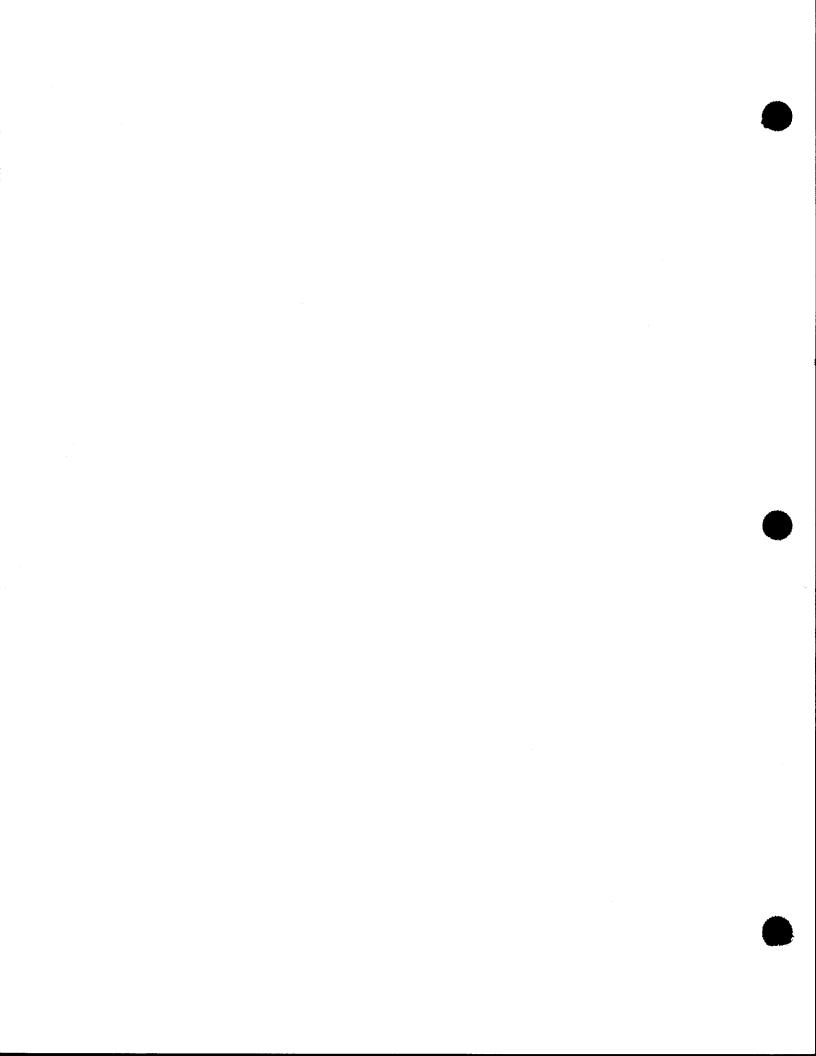
# Coastal Wetlands Planning, Protection and Restoration Act $$6^{\rm th}$$ Priority Project List Report

### Table of Contents

Volume 1       Main Report         Volume 2       Appendices								
Appendices								
Appendix A Summary and Complete Text of the CWPPRA								
Appendix B Wetland Value Assessment Methodology and Community Models								
Appendix C Engineering Designs and Cost Estimates for Candidate Projects								
Appendix D Economics Computational Summary for Candidate Projects								
Appendix E Wetland Value Assessment for Candidate Projects								
Appendix F Public Support for Candidate Projects								
Appendix G Status of Projects from Previous Priority Project Lists								



# Coastal Wetlands Planning, Protection and Restoration Act

6th Priority Project List Report

Appendix A

Summary and Complete Text of the CWPPRA

### COASTAL WETLANDS PLANNING, PROTECTION & RESTORATION ACT Public Law 101-646, Title III

### SECTION 303. Priority Louisiana Coastal Wetlands Restoration Projects.

- Section 303a. Priority Project List
- NLT 13 Jan 91. Sec. of Army (Secretary) will convene a Task Force
  - Secretary
  - Administrator, EPA
  - Governor, Louisiana
  - Secretary, Interior
  - Secretary, Agriculture
  - Secretary, Commerce
- NLT 28 Nov. 91, Task Force will prepare and transmit to Congress a Priority List of wetland restoration projects based on cost effectiveness and wetland quality.
- Priority List is revised and submitted annually as part of President's budget.
- Section 303b. Federal and State Project Planning
  - NLT 28 Nov. 93, Task Force will prepare a comprehensive coastal wetlands Restoration Plan for Louisiana.
  - Restoration Plan will consist of a list of wetland projects, ranked by cost effectiveness and wetland quality.
  - Completed Restoration Plan will become Priority List.
  - Secretary will ensure that navigation and flood control projects are consistent with the purpose of the Restoration Plan.
  - Upon submission of the Restoration Plan to Congress, the Task Force will conduct a scientific evaluation of the completed wetland restoration projects every 3 years and report findings to Congress.

### SECTION 304. Louisiana Coastal Wetlands Conservation Planning.

- Secretary: Administrator, EPA: and Director, USFWS will:
  - Sign an agreement with the Governor specifying how Louisiana will develop and implement the Conservation Plan.
  - Approve the Conservation Plan.
  - Provide Congress with periodic status reports on Plan implementation.
- NLT 3 years after agreement is signed, Louisiana will develop a Wetland Conservation Plan to achieve no net loss of wetlands resulting from development.

### SECTION 305. National Coastal Wetlands Conservation Grants.

- Director, USFWS, will make matching grants to any coastal state to implement Wetland
- Conservation Projects (projects to acquire, restore, manage, and enhance real property interest in coastal lands and waters).
- Cost sharing is 50% Federal / 50% State.

### SECTION 306. Distribution of Appropriations.

- 70 % of annual appropriations not to exceed (NTE) \$70 million used as follows:
  - NTE \$15 million to fund Task Force completion of Priority List and Restoration Plan -- Secretary disburses the funds.
  - NTE \$10 million to fund 75% of Louisiana's cost to complete Conservation Plan Administrator disburses funds.
  - Balance to fund wetland restoration projects at 75% Federal/ 25% Louisiana Secretary disburses funds
- 15% of annual appropriations, NTE \$15 million for Wetland Conservation Grants -- Director, USFWS disburses funds.
- 15% of annual appropriations, NTE \$15 million for projects authorized by the North American Wetlands Conservation Act -- Secretary, Interior disburses funds.

### SECTION 307. Additional Authority for the Corps of Engineers.

- Section 307a. Secretary authorized to:
  - Carry out projects to protect, restore, and enhance wetlands and aquatic/coastal ecosystems.
- Section 307b. Secretary authorized and directed to study feasibility of modifying MR&T to increase flows and sediment to the Atchafalaya River for land building wetland nourishment.
  - 25% if the state has dedicated trust fund from which principal is not spent.
  - 15% when Louisiana's Conservation Plan is approved.

### TITLE III -- WETLANDS

Sec. 301. SHORT TITLE.

This title may be cited as the "Coastal Wetlands Planning, Protection and Restoration Act".

Sec. 302. DEFINITIONS.

As used in this title, the term--

(1) "Secretary" means the Secretary of the Army;

(2) "Administrator" means the Administrator of the

Environmental Protection Agency;

(3) "development activities" means any activity, including the discharge of dredged or fill material, which results directly in a more than de minimus change in the hydrologic regime, bottom contour, or the type, distribution or diversity of hydrophytic vegetation, or which impairs the flow, reach, or circulation of surface water within wetlands or other waters;

(4) "State" means the State of Louisiana;

- (5) "coastal State" means a State of the United States in, or bordering on, the Atlantic, Pacific, or Arctic Ocean, the Gulf of Mexico, Long Island Sound, or one or more of the Great Lakes; for the purposes of this title, the term also includes Puerto Rico, the Virgin Islands, Guam, the Commonwealth of the Northern Mariana Islands, and the Trust Territories of the Pacific Islands, and American Samoa;
- (6) "coastal wetlands restoration project" means any technically feasible activity to create, restore, protect, or enhance coastal wetlands through sediment and freshwater diversion, water management, or other measures that the Task Force finds will significantly contribute to the long-term restoration or protection of the physical, chemical and biological integrity of coastal wetlands in the State of Louisiana, and includes any such activity authorized under this title or under any other provision of law, including, but not limited to, new projects, completion or expansion of existing or on-going projects, individual phases, portions, or components of projects and operation, maintenance and rehabilitation of completed projects; the primary purpose of a "coastal wetlands restoration project" shall not be to provide navigation, irrigation or flood control benefits;
  - (7) "coastal wetlands conservation project" means--
    - (A) the obtaining of a real property interest in coastal lands or waters, if the obtaining of such interest is subject to terms and conditions that will ensure that the real property will be administered for the long-term conservation of such lands and waters and the hydrology, water quality and fish and wildlife dependent thereon; and

- (B) the restoration, management, or enhancement of coastal wetlands ecosystems if such restoration, management, or enhancement is conducted on coastal lands and waters that are administered for the long-term conservation of such lands and waters and the hydrology, water quality and fish and wildlife dependent thereon;
- (8) "Governor" means the Governor of Louisiana;
- (9) "Task Force" means the Louisiana Coastal Wetlands Conservation and Restoration Task Force which shall consist of the Secretary, who shall serve as chairman, the Administrator, the Governor, the Secretary of the Interior, the Secretary of Agriculture and the Secretary of Commerce; and
- (10) "Director" means the Director of the United States Fish and Wildlife Service.

SEC. 303. PRIORITY LOUISIANA COASTAL WETLANDS RESTORATION PROJECTS.

### (a) PRIORITY PROJECT LIST .--

- (1) PREPARATION OF LIST. -- Within forty-five days after the date of enactment of this title, the Secretary shall convene the Task Force to initiate a process to identify and prepare a list of coastal wetlands restoration projects in Louisiana to provide for the long-term conservation of such wetlands and dependent fish and wildlife populations in order of priority, based on the cost-effectiveness of such projects in creating, restoring, protecting, or enhancing coastal wetlands, taking into account the quality of such coastal wetlands, with due allowance for small-scale projects necessary to demonstrate the use of new techniques or materials for coastal wetlands restoration.
- (2) Task force procedures.--The Secretary shall convene meetings of the Task Force as appropriate to ensure that the list is produced and transmitted annually to the Congress as required by this subsection. If necessary to ensure transmittal of the list on a timely basis, the Task Force shall produce the list by a majority vote of those Task Force members who are present and voting; except that no coastal wetlands restoration project shall be placed on the list without the concurrence of the lead Task Force member that the project is cost effective and sound from an engineering perspective. Those projects which potentially impact navigation or flood control on the lower Mississippi River System shall be constructed consistent with section 304 of this Act.
- (3) TRANSMITTAL OF LIST.--No later than one year after the date of enactment of this title, the Secretary shall transmit to the Congress the list of priority coastal wetlands restoration projects required by paragraph (1) of this subsection. Thereafter, the list shall be updated annually by the Task Force members and transmitted by the Secretary to the Congress as part of the President's annual budget submission. Annual transmittals of the list to the Congress

shall include a status report on each project and a statement from the Secretary of the Treasury indicating the amounts available for expenditure to carry out this title.

(4) LIST OF CONTENTS. --

(A) AREA IDENTIFICATION; PROJECT DESCRIPTION--The list of priority coastal wetlands restoration projects shall include, but not be limited to--

(i) identification, by map or other means, of the coastal area to be covered by the coastal wetlands

restoration project; and

- (ii) a detailed description of each proposed coastal wetlands restoration project including a justification for including such project on the list, the proposed activities to be carried out pursuant to each coastal wetlands restoration project, the benefits to be realized by such project, the identification of the lead Task Force member to undertake each proposed coastal wetlands restoration project and the responsibilities of each other participating Task Force member, an estimated timetable for the completion of each coastal wetlands restoration project, and the estimated cost of each project.
- (B) PRE-PLAN. -- Prior to the date on which the plan required by subsection (b) of this section becomes effective, such list shall include only those coastal wetlands restoration projects that can be substantially completed during a five-year period commencing on the date the project is placed on the list.

(C) Subsequent to the date on which the plan required by subsection (b) of this section becomes effective, such list shall include only those coastal wetlands restoration projects that have been identified in such

plan.

- (5) FUNDING.--The Secretary shall, with the funds made available in accordance with section 306 of this title, allocate funds among the members of the Task Force based on the need for such funds and such other factors as the Task Force deems appropriate to carry out the purposes of this subsection.
- (b) FEDERAL AND STATE PROJECT PLANNING. --
  - (1) PLAN PREPARATION. -- The Task Force shall prepare a plan to identify coastal wetlands restoration projects, in order of priority, based on the cost-effectiveness of such projects in creating, restoring, protecting, or enhancing the long-term conservation of coastal wetlands, taking into account the quality of such coastal wetlands, with due allowance for small-scale projects necessary to demonstrate the use of new techniques or materials for coastal wetlands restoration. Such restoration plan shall be completed within three years from the date of enactment of this title.
  - (2) PURPOSE OF THE PLAN. -- The purpose of the restoration plan is to develop a comprehensive approach to restore and prevent the loss of, coastal wetlands in Louisiana. Such plan shall

coordinate and integrate coastal wetlands restoration projects in a manner that will ensure the long-term conservation of the coastal wetlands of Louisiana.

- (3) INTEGRATION OF EXISTING PLANS.--In developing the restoration plan, the Task Force shall seek to integrate the "Louisiana Comprehensive Coastal Wetlands Feasibility Study" conducted by the Secretary of the Army and the "Coastal Wetlands Conservation and Restoration Plan" prepared by the State of Louisiana's Wetlands Conservation and Restoration Task Force.
- (4) ELEMENTS OF THE PLAN. -- The restoration plan developed pursuant to this subsection shall include --
  - (A) identification of the entire area in the State that contains coastal wetlands;
  - (B) identification, by map or other means, of coastal areas in Louisiana in need of coastal wetlands restoration projects;
  - (C) identification of high priority coastal wetlands restoration projects in Louisiana needed to address the areas identified in subparagraph (B) and that would provide for the long-term conservation of restored wetlands and dependent fish and wildlife populations;
  - (D) a listing of such coastal wetlands restoration projects, in order of priority, to be submitted annually, incorporating any project identified previously in lists produced and submitted under subsection (a) of this section;
  - (E) a detailed description of each proposed coastal wetlands restoration project, including a justification for including such project on the list;
  - (F) the proposed activities to be carried out pursuant to each coastal wetlands restoration project;
    - (G) the benefits to be realized by each such project;
  - (H) an estimated timetable for completion of each coastal wetlands restoration project;
  - (I) an estimate of the cost of each coastal wetlands restoration project;
  - (J) identification of a lead Task Force member to undertake each proposed coastal wetlands restoration project listed in the plan;
  - (K) consultation with the public and provision for public review during development of the plan; and
  - (L) evaluation of the effectiveness of each coastal wetlands restoration project in achieving long-term solutions to arresting coastal wetlands loss in Louisiana.
- (5) PLAN MODIFICATION. -- The Task Force may modify the restoration plan from time to time as necessary to carry out the purposes of this section.
- (6) PLAN SUBMISSION.--Upon completion of the restoration plan, the Secretary shall submit the plan to the Congress. The restoration plan shall become effective ninety days after the date of its submission to the Congress.

- (7) PLAN EVALUATION. -- Not less than three years after the completion and submission of the restoration plan required by this subsection and at least every three years thereafter, 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.
- (c) COASTAL WETLANDS RESTORATION PROJECT BENEFITS. -- Where such a determination is required under applicable law, the net ecological, aesthetic, and cultural benefits, together with the economic benefits, shall be deemed to exceed the costs of any coastal wetlands restoration project within the State which the Task Force finds to contribute significantly to wetlands restoration.
- (d) CONSISTENCY.--(1) In implementing, maintaining, modifying, or rehabilitating navigation, flood control or irrigation projects, other than emergency actions, under other authorities, the Secretary, in consultation with the Director and the Administrator, shall ensure that such actions are consistent with the purposes of the restoration plan submitted pursuant to this section.
- (2) At the request of the Governor of the State of Louisiana, the Secretary of Commerce shall approve the plan as an amendment to the State's coastal zone management program approved under section 306 of the Coastal Zone Management Act of 1972 (16 U.S.C. 1455).
- (e) Funding of Wetlands Restoration Projects.--The Secretary shall, with the funds made available in accordance with this title, allocate such funds among the members of the Task Force to carry out coastal wetlands restoration projects in accordance with the priorities set forth in the list transmitted in accordance with this section. The Secretary shall not fund a coastal wetlands restoration project unless that project is subject to such terms and conditions as necessary to ensure that wetlands restored, enhanced or managed through that project will be administered for the long-term conservation of such lands and waters and dependent fish and wildlife populations.
  - (f) Cost-Sharing. --
    - (1) FEDERAL SHARE.--Amounts made available in accordance with section 306 of this title to carry out coastal wetlands restoration projects under this title shall provide 75 percent of the cost of such projects.
    - (2) FEDERAL SHARE UPON CONSERVATION PLAN APPROVAL. -- Notwithstanding the previous paragraph, if the State develops a Coastal Wetlands Conservation Plan pursuant to this title, and such conservation plan is approved pursuant to section 304 of this title, amounts made available in accordance with section 306 of this title for any coastal wetlands restoration project under this section shall be 85 percent of the cost of the project. In the event that the Secretary, the Director, and the Administrator jointly determine that the State is not taking reasonable steps to implement and administer a conservation plan developed and approved pursuant to this

title, amounts made available in accordance with section 306 of this title for any coastal wetlands restoration project shall revert to 75 percent of the cost of the project: Provided, however, that such reversion to the lower cost share level shall not occur until the Governor, has been provided notice of, and opportunity for hearing on, any such determination by the Secretary, the Director, and Administrator, and the State has been given ninety days from such notice or hearing to take corrective action.

(3) FORM OF STATE SHARE. -- The share of the cost required of the State shall be from a non-Federal source. Such State share shall consist of a cash contribution of not less than 5 percent of the cost of the project. The balance of such State share may take the form of lands, easements, or right-of-way, or any other form of in-kind contribution determined

to be appropriate by the lead Task Force member.

(4) Paragraphs (1), (2), and (3) of this subsection shall not affect the existing cost-sharing agreements for the following projects: Caernarvon Freshwater Diversion, Davis Pond Freshwater Diversion, and Bonnet Carre Freshwater Diversion.

## SEC. 304. LOUISIANA COASTAL WETLANDS CONSERVATION PLANNING.

### (a) DEVELOPMENT OF CONSERVATION PLAN. --

- (1) AGREEMENT.--The Secretary, the Director, and the Administrator are directed to enter into an agreement with the Governor, as set forth in paragraph (2) of this subsection, upon notification of the Governor's willingness to enter into such agreement.
  - (2) TERMS OF AGREEMENT. --
    - (A) Upon receiving notification pursuant to paragraph (1) of this subsection, the Secretary, the Director, and the Administrator shall promptly enter into an agreement (hereafter in this section referred to as the "agreement") with the State under the terms set forth in subparagraph (B) of this paragraph.

(B) The agreement shall--

(i) set forth a process by which the State agrees to develop, in accordance with this section, a coastal wetlands conservation plan (hereafter in this section referred to as the "conservation plan");

(ii) designate a single agency of the State to

develop the conservation plan;

- (iii) assure an opportunity for participation in the development of the conservation plan, during the planning period, by the public and by Federal and State agencies;
- (iv) obligate the State, not later than three years after the date of signing the agreement, unless extended by the parties thereto, to submit the conservation plan to the Secretary, the

Director, and the Administrator for their approval; and

- (v) upon approval of the conservation plan, obligate the State to implement the conservation plan.
- (3) GRANTS AND ASSISTANCE.--Upon the date of signing the agreement--
  - (A) the Administrator shall, in consultation with the Director, with the funds made available in accordance with section 306 of this title, make grants during the development of the conservation plan to assist the designated State agency in developing such plan. Such grants shall not exceed 75 percent of the cost of developing the plan; and
  - (B) the Secretary, the Director, and the Administrator shall provide technical assistance to the State to assist it in the development of the plan.
- (b) Conservation Plan Goal. -- If a conservation plan is developed pursuant to this section, it shall have a goal of achieving no net loss of wetlands in the coastal areas of Louisiana as a result of development activities initiated subsequent to approval of the plan, exclusive of any wetlands gains achieved through implementation of the preceding section of this title.
- (c) ELEMENTS OF CONSERVATION PLAN. -- The conservation plan authorized by this section shall include --
  - (1) identification of the entire coastal area in the State that contains coastal wetlands;
  - (2) designation of a single State agency with the responsibility for implementing and enforcing the plan;
  - (3) identification of measures that the State shall take in addition to existing Federal authority to achieve a goal of no net loss of wetlands as a result of development activities, exclusive of any wetlands gains achieved through implementation of the preceding section of this title;
  - (4) a system that the State shall implement to account for gains and losses of coastal wetlands within coastal areas for purposes of evaluating the degree to which the goal of no net loss of wetlands as a result of development activities in such wetlands or other waters has been attained;
  - (5) satisfactory assurance that the State will have adequate personnel, funding, and authority to implement the plan;
  - (6) a program to be carried out by the State for the purpose of educating the public concerning the necessity to conserve wetlands;
  - (7) a program to encourage the use of technology by persons engaged in development activities that will result in negligible impact on wetlands; and
  - (8) a program for the review, evaluation, and identification of regulatory and nonregulatory options that will be adopted by the State to encourage and assist private owners of wetlands to continue to maintain those lands as wetlands.

(d) Approval of Conservation Plan. --

(1) IN GENERAL.--If the Governor submits a conservation plan to the Secretary, the Director, and the Administrator for their approval, the Secretary, the Director, and the Administrator shall, within one hundred and eighty days following receipt of such plan, approve or disapprove it.

(2) Approval Criteria. -- The Secretary, the Director, and the Administrator shall approve a conservation plan submitted by

the Governor, if they determine that -

(A) the State has adequate authority to fully implement

all provisions of such a plan;

- (B) such a plan is adequate to attain the goal of no net loss of coastal wetlands as a result of development activities and complies with the other requirements of this section; and
- (C) the plan was developed in accordance with terms of the agreement set forth in subsection (a) of this section.

### (e) Modification of Conservation Plan. --

- (1) Noncompliance.--If the Secretary, the Director, and the Administrator determine that a conservation plan submitted by the Governor does not comply with the requirements of subsection (d) of this section, they shall submit to the Governor a statement explaining why the plan is not in compliance and how the plan should be changed to be in compliance.
- (2) RECONSIDERATION. -- If the Governor submits a modified conservation plan to the Secretary, the Director, and the Administrator for their reconsideration, the Secretary, the Director, and Administrator shall have ninety days to determine whether the modifications are sufficient to bring the plan into compliance with requirements of subsection (d) of this section.
- (3) APPROVAL OF MODIFIED PLAN. -- If the Secretary, the Director, and the Administrator fail to approve or disapprove the conservation plan, as modified, within the ninety-day period following the date on which it was submitted to them by the Governor, such plan, as modified, shall be deemed to be approved effective upon the expiration of such ninety-day period.
- (f) AMENDMENTS TO CONSERVATION PLAN. -- If the Governor amends the conservation plan approved under this section, any such amended plan shall be considered a new plan and shall be subject to the requirements of this section; except that minor changes to such plan shall not be subject to the requirements of this section.
- (g) IMPLEMENTATION OF CONSERVATION PLAN. -- A conservation plan approved under this section shall be implemented as provided therein.
  - (h) FEDERAL OVERSIGHT. --
    - (1) INITIAL REPORT TO CONGRESS. -- Within one hundred and eighty days after entering into the agreement required under subsection (a) of this section, the Secretary, the Director, and the Administrator shall report to the Congress as to the status of a conservation plan approved under this section and the progress of the State in carrying out such a plan,

including and accounting, as required under subsection (c) of this section, of the gains and losses of coastal wetlands as a result of development activities.

(2) REPORT TO CONGRESS.--Twenty-four months after the initial one hundred and eighty day period set forth in paragraph (1), and at the end of each twenty-four-month period thereafter, the Secretary, the Director, and the Administrator shall, report to the Congress on the status of the conservation plan

and provide an evaluation of the effectiveness of the plan in meeting the goal of this section.

### SEC. 305 NATIONAL COASTAL WETLANDS CONSERVATION GRANTS.

(a) MATCHING GRANTS.--The Director shall, with the funds made available in accordance with the next following section of this title, make matching grants to any coastal State to carry out coastal wetlands conservation projects from funds made available for that purpose.

(b) PRIORITY. -- Subject to the cost-sharing requirements of this section, the Director may grant or otherwise provide any matching moneys to any coastal State which submits a proposal substantial in character and design to carry out a coastal wetlands conservation project. In awarding such matching grants, the Director shall give priority to coastal wetlands conservation projects that are--

(1) consistent with the National Wetlands Priority Conservation Plan developed under section 301 of the

Emergency Wetlands Resources Act (16 U.S.C. 3921); and

(2) in coastal States that have established dedicated funding for programs to acquire coastal wetlands, natural areas and open spaces. In addition, priority consideration shall be given to coastal wetlands conservation projects in maritime forests on coastal barrier islands.

- (c) Conditions.--The Director may only grant or otherwise provide matching moneys to a coastal State for purposes of carrying out a coastal wetlands conservation project if the grant or provision is subject to terms and conditions that will ensure that any real property interest acquired in whole or in part, or enhanced, managed, or restored with such moneys will be administered for the long-term conservation of such lands and waters and the fish and wildlife dependent thereon.
  - (d) Cost-Sharing. --
    - (1) FEDERAL SHARE.--Grants to coastal States of matching moneys by the Director for any fiscal year to carry out coastal wetlands conservation projects shall be used for the payment of not to exceed 50 percent of the total costs of such projects: except that such matching moneys may be used for payment of not to exceed 75 percent of the costs of such projects if a coastal State has established a trust fund, from which the principal is not spent, for the purpose of acquiring coastal wetlands, other natural area or open spaces.

(2) FORM OF STATE SHARE. -- The matching moneys required of a coastal State to carry out a coastal wetlands conservation

project shall be derived from a non-Federal source.

(3) IN-KIND CONTRIBUTIONS. -- In addition to cash outlays and payments, in-kind contributions of property or personnel services by non-Federal interests for activities under this section may be used for the non-Federal share of the cost of those activities.

### (e) PARTIAL PAYMENTS. --

- (1) The Director may from time to time make matching payments to carry out coastal wetlands conservation projects as such projects progress, but such payments, including previous payments, if any, shall not be more than the Federal pro rata share of any such project in conformity with subsection (d) of this section.
- (2) The Director may enter into agreements to make matching payments on an initial portion of a coastal wetlands conservation project and to agree to make payments on the remaining Federal share of the costs of such project from subsequent moneys if and when they become available. liability of the United States under such an agreement is contingent upon the continued availability of funds for the purpose of this section.
- (f) WETLANDS ASSESSMENT. -- The Director shall, with the funds made available in accordance with the next following section of this title, direct the U.S. Fish and Wildlife Service's National Wetlands Inventory to update and digitize wetlands maps in the State of Texas and to conduct an assessment of the status, condition, and trends of wetlands in that State.

### SEC. 306. DISTRIBUTION OF APPROPRIATIONS.

- (a) PRIORITY PROJECT AND CONSERVATION PLANNING EXPENDITURES .-- Of the total amount appropriated during a given fiscal year to carry out this title, 70 percent, not to exceed \$70,000,000, shall be available, and shall remain available until expended, for the purposes of making expenditures--
  - (1) not to exceed the aggregate amount of \$5,000,000 annually to assist the Task Force in the preparation of the list required under this title and the plan required under this title, including preparation of--
    - (A) preliminary assessments;

    - (B) general or site-specific inventories;(C) reconnaissance, engineering or other studies;
    - (D) preliminary design work; and
    - (E) such other studies as may be necessary to identify and evaluate the feasibility of coastal wetlands restoration projects;
  - (2) to carry out coastal wetlands restoration projects in accordance with the priorities set forth on the list prepared under this title;
  - to carry out wetlands restoration projects accordance with the priorities set forth in the restoration plan prepared under this title;

- (4) to make grants not to exceed \$2,500,000 annually or \$10,000,000 in total, to assist the agency designated by the State in development of the Coastal Wetlands Conservation Plan pursuant to this title.
- (b) COASTAL WETLANDS CONSERVATION GRANTS. -- Of the total amount appropriated during a given fiscal year to carry out this title, 15 percent, not to exceed \$15,000,000 shall be available, and shall remain available to the Director, for purposes of making grants--
  - (1) to any coastal State, except States eligible to receive funding under section 306(a), to carry out coastal wetlands conservation projects in accordance with section 305 of this title; and
  - (2) in the amount of \$2,500,000 in total for an assessment of the status, condition, and trends of wetlands in the State of Texas.
- (c) NORTH AMERICAN WETLANDS CONSERVATION. -- Of the total amount appropriated during a given fiscal year to carry out this title, 15 percent, not to exceed \$15,000,000, shall be available to, and shall remain available until expended by, the Secretary of the Interior for allocation to carry out wetlands conservation projects in any coastal State under section 8 of the North American Wetlands Conservation Act (Public Law 101-233, 103 Stat. 1968, December 13, 1989).

### SEC. 307. GENERAL PROVISIONS.

- (a) ADDITIONAL AUTHORITY FOR THE CORPS OF ENGINEERS.--The Secretary is authorized to carry out projects for the protection, restoration, or enhancement of aquatic and associated ecosystems, including projects for the protection, restoration, or creation of wetlands and coastal ecosystems. In carrying out such projects, the Secretary shall give such projects equal consideration with projects relating to irrigation, navigation, or flood control.
- (b) STUDY.--The Secretary is hereby authorized and directed to study the feasibility of modifying the operation of existing navigation and flood control projects to allow for an increase in the share of the Mississippi River flows and sediment sent down the Atchafalaya River for purposes of land building and wetlands nourishment.

#### SEC.308. CONFORMING AMENDMENT.

16 U.S.C. 777c is amended by adding the following after the first sentence: "The Secretary shall distribute 18 per centum of each annual appropriation made in accordance with the provisions of section 777b of this title as provided in the Coastal Wetlands Planning, Protection and Restoration Act: Provided, That, notwithstanding the provisions of section 777b, such sums shall remain available to carry out such Act through fiscal year 1999.".

# Coastal Wetlands Planning, Protection and Restoration Act

6th Priority Project List Report

### Appendix B

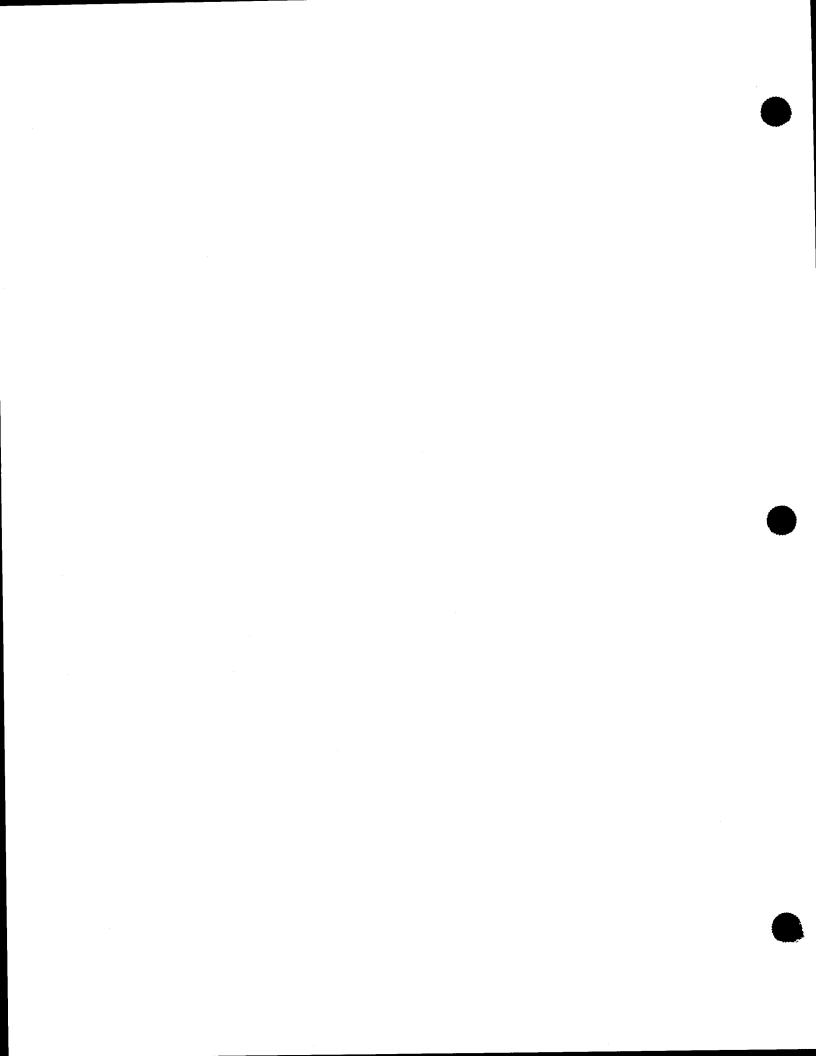
Wetland Value Assessment Methodology and Community Models

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# Appendix B

# Wetland Value Assessment Methodology and Community Models Table of Contents

TNTPODICTION	<u>Page</u>
INTRODUCTION	B-1
WVA CONCEPT	B-2
COMMUNITY MODEL VARIABLE SELECTION	B-2
SUITABILITY INDEX GRAPHS	B-3
SUITABILITY INDEX GRAPH ASSUMPTIONS	B-4
Fresh/Intermediate Marsh Model	B-7
HABITAT SUITABILITY INDEX FORMULA	B-10
BENEFIT ASSESSMENT	B <b>-11</b>
LITERATURE CITED	3-12
WETLAND VALUE ASSESSMENT COMMUNITY MODELS	
Attachment 1: Fresh/Intermediate Marsh Model	3-13
Attachment 2: Brackish Marsh Model	3-20
Attachment 3: Saline Marsh ModelB	3-27
Attachment 4: Cypress-Tupelo Swamp ModelB	3-34
Attachment 5: InterspersionB	3-38
Attachment 6: Procedure for Calculating Access ValueB	-44
Attachment 7: Published Habitat Suitability Index Models Consulted for Variables for Possible Use in the MVA Models	-48



### WETLAND VALUE ASSESSMENT METHODOLOGY

### AND COMMUNITY MODELS

### INTRODUCTION

The Wetland Value Assessment (WVA) methodology is a quantitative, habitat-based assessment methodology developed for use in prioritizing project proposals submitted for funding under the Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA). The WVA quantifies changes in fish and wildlife habitat quality and quantity that are projected to be brought about as a result of a proposed wetland enhancement project. The results of the WVA, measured in Average Annual Habitat Units (AAHU's), can be combined with economic data to provide a measure of the effectiveness of a proposed project in terms of annualized cost per AAHU gained.

The WVA was developed by the Environmental Work Group (Group) assembled under the Planning and Evaluation Subcommittee of the CWPPRA Technical Committee; the Group includes members from each agency represented on the CWPPRA Task Force. The WVA was designed to be applied, to the greatest extent possible, using only existing or readily obtainable data.

The WVA has been developed strictly for use in ranking proposed CWPPRA projects; it is not intended to provide a detailed, comprehensive methodology for establishing baseline conditions within a project area. Some aspects of the WVA have been defined by policy and functional considerations of the CWPPRA; therefore, user-specific modifications may be necessary if the WVA is used for other purposes.

The WVA is a modification of the Habitat Evaluation Procedures (HEP) developed by the U.S. Fish and Wildlife Service (U.S. Fish and Wildlife Service 1980). HEP is widely used by the Fish and Wildlife Service and other Federal and State agencies in evaluating the impacts of development projects on fish and wildlife resources. A notable difference exists between the two methodologies, however, in that HEP generally uses a speciesoriented approach, whereas the WVA utilizes a community approach.

The WVA has been developed for application to the following coastal Louisiana wetland types: fresh marsh (including intermediate marsh), brackish marsh, saline marsh, and cypresstupelo swamp. Future reference in this document to "wetland" or "wetland type" refers to one or more of those four communities.

### WVA CONCEPT

The WVA operates under the assumption that optimal conditions for fish and wildlife habitat within a given coastal wetland type can be characterized, and that existing or predicted conditions can be compared to that optimum to provide an index of habitat quality. Habitat quality is estimated or expressed through the use of a mathematical model developed specifically for each wetland type. Each model consists of 1) a list of variables that are considered important in characterizing fish and wildlife habitat, 2) a Suitability Index graph for each variable, which defines the assumed relationship between habitat quality (Suitability Index) and different variable values, and 3) a mathematical formula that combines the Suitability Index for each variable into a single value for wetland habitat quality; that single value is referred to as the Habitat Suitability Index, or HSI.

The Wetland Value Assessment models (Attachments 1-4) have been developed for determining the suitability of Louisiana coastal wetlands in providing resting, foraging, breeding, and nursery habitat to a diverse assemblage of fish and wildlife species. Models have been designed to function at a community level and therefore attempt to define an optimum combination of habitat conditions for all fish and wildlife species utilizing a given marsh type over a year or longer. Earlier attempts to capture other wetland functions and values such as storm-surge protection, flood water storage, water quality functions, and nutrient import and export were abandoned due to the difficulty in defining unified model relationships and meaningful model outputs for such a variety of wetland benefits. However, the ability of a Louisiana coastal wetland to provide those functions and values may be generally assumed to be positively correlated with fish and wildlife habitat quality as predicted through the WVA.

The output of each model (the HSI) is assumed to have a linear relationship with the suitability of a coastal wetland system in providing fish and wildlife habitat.

### COMMUNITY MODEL VARIABLE SELECTION

Habitat variables considered appropriate for describing habitat quality in each wetland type were selected according to the following criteria:

- the condition described by the variable had to be important in characterizing fish and wildlife habitat quality in the wetland type under consideration;
- 2) values had to be easily estimated and predicted based on existing data (e.g., aerial photography, LANDSAT, GIS systems, water quality monitoring stations, and interviews with knowledgeable individuals); and

3) the variable had to be sensitive to the types of changes expected to be brought about by typical wetland projects proposed under the CWPPRA.

Variables for each model were selected through a two-part procedure. The first involved a listing of environmental variables thought to be important in characterizing fish and wildlife habitat in coastal marsh or swamp systems.

The second part of the selection procedure involved reviewing variables used in species-specific HSI models published by the U.S. Fish and Wildlife Service. Review was limited to models for those fish and wildlife species known to inhabit Louisiana coastal wetlands, and included models for 10 estuarine fish and shellfish, 4 freshwater fish, 12 birds, 3 reptiles and amphibians, and 2 mammals (Attachment 7). The number of models included from each species group was dictated by model availability.

Selected HSI models were then grouped according to the wetland type(s) used by each species. Because most species for which models were considered are not restricted to one wetland type, most models were included in more than one wetland type group. Within each wetland type group, variables from all models were then grouped according to similarity (e.g., water quality, vegetation, etc.). Each variable was evaluated based on 1) whether it met the variable selection criteria; 2) whether another, more easily measured or predicted variable in the same or a different similarity group functioned as a surrogate; and 3) whether it was deemed suitable for the WVA application (e.g., some freshwater fish model variables dealt with riverine or lacustrine environments). Variables that did not satisfy those conditions were eliminated from further consideration. The remaining variables, still in their similarity groups, were then further eliminated or refined by combining similar variables and culling those that were functionally duplicated by variables from other models (i.e., some variables were used frequently in different models in only slightly different format, such as percent marsh coverage, salinity, etc.).

Variables selected from the HSI models were then compared to those identified in the first part of the selection procedure to arrive at a final list of variables to describe wetland habitat quality. That list includes six variables for each of the marsh types and three for the cypress-tupelo swamp (Attachments 1-4).

### SUITABILITY INDEX GRAPHS

Suitability Index graphs were constructed for each variable selected within a wetland type. A Suitability Index (SI) graph is a graphical representation of how fish and wildlife habitat quality or "suitability" of a given wetland type is predicted to change as values of the given variable change, and allows the model user to describe numerically, through a Suitability Index,

the habitat quality of a wetland area for any variable value. Each Suitability Index ranges from 0.0 to 1.0, with 1.0 representing the optimum condition for the variable in question.

A variety of resources were utilized to construct each Suitability Index (SI) graph, including personal knowledge of Group members, the species HSI models from which the final list of variables was partially derived, consultation with other professionals and researchers outside the Group, and published and unpublished data and studies. An important "non-biological" constraint on SI graph development was the need to insure that graph relationships were not counter to the purpose of the CWPPRA, that is, the long term creation, restoration, protection, or enhancement of coastal vegetated wetlands. That constraint was most operative in defining SI graphs for Variable 1 under each marsh model (see discussion below).

The process of graph development was one of constant evolution, feedback, and refinement; the form of each Suitability Index graph was decided upon through consensus among Group members.

### SUITABILITY INDEX GRAPH ASSUMPTIONS

Suitability Index graphs were developed according to the assumptions discussed below.

### Fresh/Intermediate Marsh Model.

Variable  $V_1$ --Percent of wetland covered by persistent emergent vegetation ( $\geq 10$  percent canopy cover).

Persistent emergent vegetation plays an important role in coastal wetlands by providing foraging, resting, and breeding habitat for a variety of fish and wildlife species; and by providing a source of detritus and energy for lower trophic organisms that form the basis for the food chain. An area with no marsh (i.e., shallow open water) is assumed to have minimal habitat suitability in terms of this variable, and is assigned an SI of 0.1.

Optimum vegetation coverage in a fresh/intermediate marsh is assumed to occur at 100 percent persistent emergent vegetation cover (SI=1.0). That assumption is dictated primarily by the constraint of not having graph relationships conflict with the CWPPRA's purpose of long-term creation, restoration, protection, or enhancement of coastal vegetated wetlands. The Group had originally developed a strictly biologically-based graph defining optimum habitat conditions at marsh cover values between 60 and 80 percent, and sub-optimum habitat conditions at 100 percent cover. However, application of that graph, in combination with the time analysis used later in the evaluation process, often reduced project benefits or generated a net loss of habitat quality through time with the project. Those situations arose primarily when: existing (baseline) emergent vegetation cover exceeded the optimum (> 80 percent); the project was predicted to maintain baseline cover values; and without the project the marsh was

predicted to degrade, with a concurrent decline in percent emergent vegetation cover into the optimum range (60-80 percent). The time factor aggravated the situation when the without-project degradation was not rapid enough to reduce marsh cover values significantly below the optimum range, or below the baseline SI, within the 20-year evaluation period. In those cases, the analysis would show net negative benefits for the project, and positive benefits for letting the marsh degrade rather than maintaining the existing marsh. Coupling that situation with the presumption that marsh conditions are not static, and that Louisiana will continue to lose coastal emergent marsh, and taking into account the purpose of the CWPPRA, the Group decided that, all other factors being equal, the WVA should favor projects that maximize emergent marsh creation, maintenance, and protection. Therefore, the Group agreed to deviate from a strict biologicallybased habitat suitability graph for  $V_1$  by setting optimum habitat conditions at 100 percent marsh cover.

Variable  $V_2$ --Percent of open water area dominated (> 50 percent canopy cover) by aquatic vegetation.

Fresh and intermediate marshes often support diverse communities of floating-leaved and submerged aquatic plants that provide important food and cover to a wide variety of fish and wildlife species. A fresh/intermediate open water area with no aquatics is assumed to have low suitability (SI=0.1). condition (SI=1.0) is assumed to occur when 100 percent of the open water is dominated by aquatic vegetation. Habitat suitability may be assumed to decrease with aquatic plant coverage approaching 100 percent due to the potential for mats of aquatic vegetation to hinder fish and wildlife utilization; to adversely affect water quality by reducing photosynthesis by phytoplankton and other plant forms due to shading; and to contribute to oxygen depletion spurred by warm-season decay of large quantities of aquatic vegetation. The Group recognized, however, that those effects were highly dependent on the dominant aquatic plant species, their growth forms, and their arrangement in the water column; thus, it is possible to have 100 percent cover of a variety of floating and submerged aquatic plants without the above-mentioned problems due to differences in plant growth form and stratification of plants through the water column. Because predictions of which species may dominate at any time in the future would be tenuous at best, the Group decided to simplify the graph and define optimum conditions at 100 percent aquatic cover.

Variable  $V_3$ --Marsh edge and interspersion.

This variable takes into account the relative juxtaposition of marsh and open water for a given marsh:open water ratio, and is measured by comparing the project area to sample illustrations (Attachment 5) depicting different degrees of interspersion. Interspersion is assumed to be especially important when considering the value of an area as foraging and nursery habitat for freshwater and estuarine fish and shellfish; the marsh/open water interface represents an ecotone where prey species often concentrate, and where post-larval and juvenile organisms can find cover. Isolated marsh ponds are often more productive in terms of

aquatic vegetation than are larger ponds due to decreased turbidities, and thus may provide more suitable waterfowl habitat. However, interspersion can be indicative of marsh degradation, a factor taken into consideration in assigning suitability indices to the various Interspersion Types.

A relatively high degree of interspersion in the form of stream courses and tidal channels (Interspersion Type 1, Attachment 5) is assumed to be optimal (SI=1.0); streams and channels offer interspersion, yet are not indicative of active marsh deterioration. Areas exhibiting a high degree of marsh cover are also ranked as optimum, even though interspersion may be low, to avoid conflicts with the premises underlying the SI graph for variable V1. Without such an allowance, areas of relatively healthy, solid marsh, or projects designed to create marsh, would be penalized with respect to interspersion. Numerous small marsh ponds (Interspersion Type 2) offer a high degree of interspersion, but are also usually indicative of the beginnings of marsh breakup and degradation, and are therefore assigned a more moderate SI of 0.6. Large open water areas (Interspersion Types 3 and 4) offer lower interspersion values and usually indicate advanced stages of marsh loss, and are thus assigned SI's of 0.4 and 0.2, respectively. The lowest expression of interspersion (i.e., no emergent marsh at all within the project area) is assumed to be least desirable and is assigned an SI=0.1.

Variable  $V_4$ --Percent of open water area  $\leq 1.5$  feet deep in relation to marsh surface.

Shallow water areas are assumed to be more biologically productive than deeper water due to a general reduction in sunlight, oxygen, and temperature as water depth increases. Also, shallower water provides greater bottom accessibility for certain species of waterfowl, better foraging habitat for wading birds, and more favorable conditions for aquatic plant growth. Optimum depth in a fresh/intermediate marsh is assumed to occur when 80 to 90 percent of the open water area is less than or equal to 1.5 feet deep. The value of deeper areas in providing drought refugia for fish, alligators and other marsh life is recognized by assigning an SI=0.6 (i.e., sub-optimal) if all of the open water is less than or equal to 1.5 feet deep.

Variable V<sub>5</sub>--Mean high salinity during the growing season. It is assumed that periods of high salinity are most detrimental in a fresh/intermediate marsh when they occur during the growing season (defined as March through November, based on dates of first and last frost contained in Soil Conservation Service soil surveys for coastal Louisiana). Mean high salinity is defined as the average of the upper 33 percent of salinity readings taken during a specified period of record. Optimum condition in fresh marsh is assumed to occur when mean high salinity during the growing season is less than 2 parts per thousand (ppt). Optimum condition in intermediate marsh is assumed to occur when mean high salinity during the growing season is less than 4 ppt.

Variable V<sub>6</sub>--Aquatic organism access.

Access by aquatic organisms, particularly estuarine fishes and shellfishes, is considered to be a critical component in assessing the "quality" or suitability of a given marsh system to provide habitat to those species. Additionally, a marsh with a relatively high degree of access by default also exhibits a relatively high degree of hydrologic connectivity with adjacent systems, and therefore may be considered to contribute more to nutrient exchange than would a marsh exhibiting a lesser degree of access. The Suitability Index for V7 is determined by calculating an "Access Value" based on the interaction between the percentage of the project area wetlands considered accessible by estuarine organisms during normal tidal fluctuations, and the type of manmade structures (if any) across identified points of ingress and egress (bayous, canals, etc.). Standardized procedures for calculating the Access Value have been established (Attachment 6). The optimum condition is assumed to exist when all of the study area is accessible and the access points are entirely open and unobstructed. A fresh/intermediate marsh with no access is assigned an SI=0.3, reflecting the assumption that, while fresh/intermediate marshes are important to some species of estuarine fishes and shellfish, such a marsh lacking access continues to provide benefits to a wide variety of other wildlife and fish species, and is not without habitat value.

### Brackish Marsh Model.

Variable  $V_1$ --Percent of wetland covered by persistent emergent vegetation ( $\geq$  10 percent canopy cover).

Refer to the  $V_1$  discussion under the fresh/intermediate marsh model for a discussion of the importance of persistent emergent vegetation in coastal marshes. The  $V_1$  Suitability Index graph in the brackish marsh model is identical to that in the fresh/intermediate model.

Variable  $V_2$ --Percent of open water area dominated (> 50 percent canopy cover) by aquatic vegetation.

Like fresh/intermediate marshes, brackish marshes have the potential to support aquatic plants that serve as important sources of food and cover for a wide variety of wildlife. However, brackish marshes generally do not support the amounts and kinds of aquatic plants that occur in fresh/intermediate marshes (although certain species, such as widgeon-grass, can occur abundantly under certain conditions). Therefore, a brackish marsh entirely lacking aquatic plants is assigned an SI=0.3. It is assumed that optimum open water coverage of aquatic plants in a brackish marsh occurs at 100 percent aquatic cover.

Variable  $V_3$ --Marsh edge and interspersion.

The Suitability Index graph for edge and interspersion in the brackish marsh model is the same as that in the fresh/intermediate marsh model.

Variable  $V_4$ --Open water depth in relation to marsh surface.

As in the fresh/intermediate model, shallow water areas in brackish marsh habitat are assumed to be important. However, brackish marsh generally exhibits deeper open water areas than fresh marsh due to tidal scouring. Therefore, the SI graph is constructed so that lower percentages of shallow water receive higher SI values relative to fresh/intermediate marsh. Optimum open water depth condition in a brackish marsh is assumed to occur when 70 to 80 percent of the open water area is less than or equal to 1.5 feet deep.

Variable V<sub>5</sub>--Average annual salinity.

The suitability index graph is constructed to represent optimum average annual salinity condition at between 0 ppt and 10 ppt. The Group acknowledges that average annual salinites below 6 ppt will effectively define a marsh as fresh or intermediate, not brackish. However, the suitability index graph makes allowances for lower salinities (i.e., < 6 ppt) to account for occasions when there is a trend of decreasing salinities through time toward a more intermediate condition. Implicit in keeping the graph at optimum for salinites less than 6 ppt is the assumption that lower salinites are not detrimental to a bracksih marsh. However, average annual salinites greater than 10 ppt are assumed to be progressively more harmful to brackish marsh vegetation, as illustrated in the downward sloping right leg of the suitability index graph. Average annual salinities greater than 16 ppt are assumed to be representative of those found in a saline marsh, and thus are not considered in the brackish marsh model.

Variable V<sub>6</sub>--Aquatic organism access.

The general rationale and procedure behind the  $V_6$  Suitability Index graph for the brackish marsh model are identical to those established for the fresh/intermediate model. However, brackish marshes are assumed to be more important as providers of habitat to estuarine fish and shellfish than fresh/intermediate marshes. Therefore, a brackish marsh providing no access is assigned an SI of 0.1.

### Saline Marsh Model.

Variable  $V_1$ --Percent of wetland covered by persistent emergent vegetation ( $\geq$  10 percent canopy cover).

Refer to the  $V_1$  discussion under the fresh/intermediate marsh model for a discussion of the importance of persistent emergent vegetation in coastal marshes. The  $V_1$  Suitability Index graph in the saline marsh model is identical to that in the fresh/intermediate and brackish models.

Variable  $V_2$ --Percent of open water area dominated (> 50 percent canopy cover) by aquatic vegetation.

Refer to the  $V_2$  discussion under the brackish marsh model for a discussion of persistent emergent vegetation in more saline coastal marshes. The  $V_2$  Suitability Index graph in the saline marsh model is identical to that in the brackish model.

Variable  $V_3$ --Marsh edge and interspersion.

The Suitability Index graph for edge and interspersion in the saline marsh model is the same as that in the fresh/intermediate and brackish marsh models.

Variable  $V_4$ --Open water depth in relation to marsh surface.

The Suitability Index graph for open water depth in the saline marsh is similar to that for brackish marsh, where optimum conditions are assumed to occur when 70 to 80 percent of the open water area is less than or equal to 1.5 feet deep. However, at 100 percent shallow water, the saline graph yields an SI= 0.5 rather than 0.6 for the brackish model. That change reflects the increased abundance of tidal channels and generally deeper water conditions prevailing in a saline marsh due to increased tidal influences, and the importance of those tidal channels to estuarine organisms.

Variable V<sub>5</sub>--Average annual salinity.

The Suitability Index graph is constructed to represent optimum salinity conditions at between 9 ppt and 21 ppt. The Group acknowledges that average annual salinites between 9 and 12 ppt will effectively define a marsh as brackish, not saline. However, the suitability index graph makes allowances for lower salinities (i.e., < 12 ppt) to account for occasions when there is a trend of decreasing salinities through time toward a more brackish condition. Implicit in keeping the graph at optimum for salinites less than 12 ppt is the assumption that lower salinities (9-12 ppt) are not detrimental to a saline marsh. Average annual salinities greater than 21 ppt are assumed to be slightly stressful to saline marsh vegetation, as illustrated in the downward sloping right leg of the suitability index graph.

Variable V<sub>6</sub>--Aquatic organism access.

The Suitability Index graph for aquatic organism access in the saline marsh model is the same as that in the brackish marsh model.

### Cypress-Tupelo Swamp Model.

Variable  $V_1$ --Water regime.

Four water regime categories are described for the cypress-tupelo swamp model. The optimum water regime for a cypress-tupelo swamp is assumed to be seasonal flooding (SI=1.0); seasonal flooding with periodic drying cycles is assumed to contribute to increased nutrient cycling (primarily through oxidation and decomposition of accumulated detritus), increased vertical structure complexity (due to growth of other plants on the swamp floor), and increased recruitment of dominant overstory trees. Semipermanent flooding is also assumed to be desirable, as reflected in the SI=0.8 for that water regime category. Permanent flooding is assumed to be the least desirable (SI=0.2).

Variable  $V_2$ --Water flow/exchange.

This variable attempts to take into consideration the amounts and types of water inputs into a cypress-tupelo swamp. The Suitability Index graph is constructed under the assumption that abundant and consistent riverine input and water flow-through is optimum (SI=1.0), because under that regime the full functions and values of a cypress-tupelo swamp in providing fish and wildlife habitat are assumed to be maximized. Habitat suitability is assumed to decrease as water exchange between the swamp and adjacent systems is reduced. A swamp system with no water exchange (e.g., an impounded swamp where the only water input is through rainfall and the only water loss is through evapotranspiration and ground seepage) is assumed to be least desirable, and is assigned an SI= 0.2.

Variable V<sub>3</sub>--Average high salinity.

Average high salinity is defined as the average of the upper 33 percent of salinity measurements taken during a specified period of record. Because baldcypress is salinity-sensitive, optimum conditions for baldcypress survival are assumed to occur at average high salinities less than 1 ppt. Habitat suitability is assumed to decrease rapidly at average high salinities in excess of 1 ppt.

### HABITAT SUITABILITY INDEX FORMULA

The final step in WVA model development was to construct a mathematical formula that combines all Suitability Indices for each wetland type into a single Habitat Suitability Index (HSI) value. Because the Suitability Indices range in value from 0.0 to 1.0, the HSI also ranges from 0.0 to 1.0, and is a numerical representation of the overall or "composite" habitat quality of the particular wetland study area being evaluated. The HSI formula defines the aggregation of Suitability Indices in a manner unique to each wetland type depending on how the formula is constructed.

Within an HSI formula, any Suitability Index can be weighted by various means to increase the power or "importance" of that variable relative to the other variables in determining the HSI. Additionally, two or more variables can be grouped together into subgroups to further isolate variables for weighting.

In constructing HSI formulas for the marsh models, the Group recognized that the primary focus of the CWPPRA is on vegetated wetlands, and that some marsh protection strategies could have adverse impacts to estuarine organism access. Therefore, the Group made an a priori decision to emphasize variables  $V_1$ ,  $V_2$ , and  $V_6$  by grouping and weighting them together. Weighting was facilitated by treating the grouped variables as a geometric mean. Variables  $V_3$ ,  $V_4$ , and  $V_5$  were grouped to isolate their influence relative to  $V_1$ ,  $V_2$ , and  $V_6$ .

For all marsh models,  $V_1$  receives the strongest weighting. The relative weights of  $V_2$  and  $V_6$  differ by marsh model to reflect differing levels of importance for those variables among the marsh types. For example, the amount of aquatic vegetation was deemed more important in the context of a fresh/intermediate marsh than in a saline marsh, due to the relative contributions of aquatic vegetation between the two marsh types in terms of providing food and cover. Therefore,  $V_2$  receives more weight in the fresh/intermediate HSI formula than in the saline HSI formula. Similarly, the degree of estuarine organism access was considered more important in a saline marsh than in a fresh/intermediate marsh, and  $V_6$  receives more weight in the saline HSI formula than in the fresh/intermediate formula.

As with the Suitability Index graphs, the Habitat Suitability Index formulas were developed by consensus among the Group members.

#### BENEFIT ASSESSMENT

The net benefits of a proposed project are estimated by predicting future habitat conditions under two scenarios: with the proposed project in place and without the proposed project. Specifically, predictions are made as to how the model variables will change through time under the two scenarios. Through that process, HSI's are established for baseline (pre-project) conditions and for future with- and future without-project scenarios for selected "target years" throughout the expected life of the project. Those HSI's are then multiplied by the acreage of wetland type known or expected to be present in the target years to arrive at Habitat Units.

Habitat Units (HU's) represent a numerical combination of quality (HSI) and quantity (acres) existing at any given point in time. The "benefit" of a project can be quantified by comparing HU's between the future with- and future without-project scenarios. The difference in HU's between the two scenarios represents the net benefit attributable to the project in terms of habitat quantity and quality.

The HU's resulting from the future with— and future without—project scenarios are annualized, averaged out over the project life, and compared to determine the net gain in average annual HU's (AAHU's) attributable to the project. The net gain in AAHU's is then combined with annualized cost data to arrive at a cost per AAHU for the evaluated project. That figure is compared to the same figure from other projects in order to rank all proposed projects in order of cost per AAHU.

### LITERATURE CITED

U. S. Fish and Wildlife Service. 1980. Habitat evaluation procedures (HEP). Div. Ecol. Serv. ESM 102, U. S. Fish and Wildl. Serv., Washington, DC. 141pp.

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Revised June 2, 1993

FRESH/INTERMEDIATE MARSH

Vegetation:

Variable  $V_1$  Percent of wetland area covered by emergent

vegetation (≥ 10 percent canopy cover).

Variable  $V_2$  Percent of open water area dominated (> 50 percent

canopy cover) by aquatic vegetation.

Interspersion:

Variable  $V_3$  Marsh edge and interspersion.

Water Depth:

Variable V<sub>4</sub> Percent of open water area ≤ 1.5 feet deep, in

relation to marsh surface.

Water Ouality:

Variable  $V_5$  Mean high salinity during the growing season (March

through November).

Aquatic Organism Access:

Variable V<sub>6</sub> Aquatic organism access.

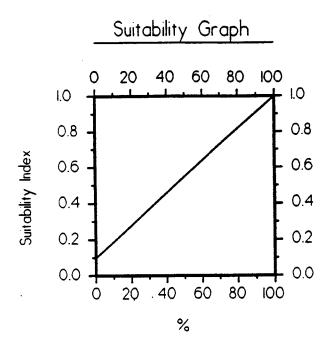
HSI Calculation:

 $HSI = \frac{[3.5 \times (SIV_1^3 \times SIV_2^{1.2} \times SIV_6^{0.5})^{1/4.7}] + \left[\frac{(SIV_3 + SIV_4 + SIV_5)}{3}\right]}{4.5}$ 

Attachment 1

## FRESH/INTERMEDIATE MARSH

Variable  $V_1$  Percent of wetland area covered by emergent vegetation ( $\geq$  10 percent canopy cover).

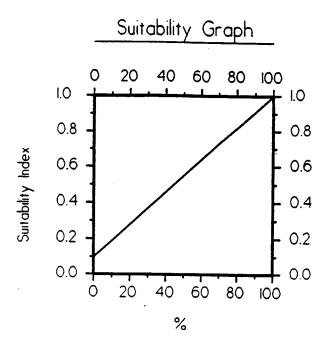


### Line Formula

 $SI = (0.009 \times \%) + 0.1$ 

### FRESH/INTERMEDIATE MARSH

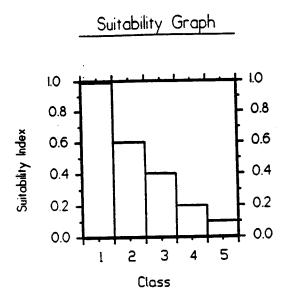
Variable  $V_2$  Percent of open water area dominated (> 50 percent canopy cover) by aquatic vegetation.



Line Formula

 $SI = (0.009 \times %) + 0.1$ 

Variable V<sub>3</sub> Marsh edge and interspersion.

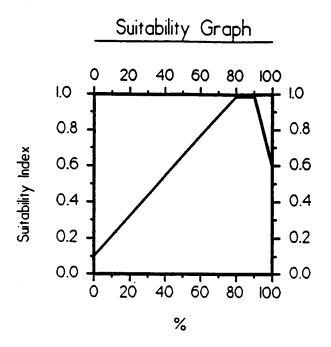


Instructions for Calculating SI for Variable 3:

- 1. Refer to Attachment 5 for examples of the different interspersion classes (=types).
- 2. Estimate percent of project area in each class and compute a weighted average to arrive at  $SIV_3$ . If the entire project area is solid marsh, assign an interspersion class #1 (SI=1.0). Conversely, if the entire project area is open water, assign an interspersion class #5 (SI=0.1).

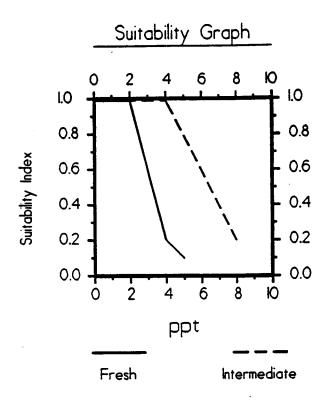
#### FRESH/INTERMEDIATE MARSH

Variable  $V_4$  Percent of open water area  $\leq$  1.5 feet deep, in relation to marsh surface.



#### Line Formula

If  $0 \le % < 80$ , then  $SI = (0.01125 \times %) + 0.1$ If  $80 \le % < 90$ , then SI = 1.0If  $% \ge 90$ , then  $SI = (-0.04 \times %) + 4.6$  Variable  $V_5$  Mean high salinity during the growing season (March through November).



#### Line Formula

#### Fresh Marsh:

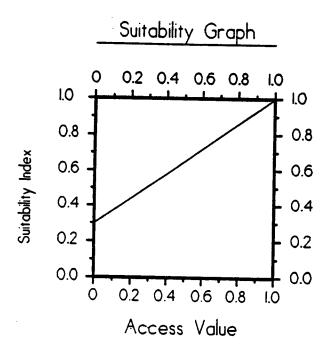
If  $0 \le ppt < 2$ , then SI = 1.0If  $2 \le ppt < 4$ , then  $SI = (-0.4 \times ppt) + 1.8$ If  $4 \le ppt \le 5$  then  $SI = (-0.1 \times ppt) + 0.6$ 

#### Intermediate Marsh:

If  $0 \le ppt < 4$ , then SI = 1.0If  $4 \le ppt \le 8$ , then  $SI = (-0.2 \times ppt) + 1.8$ 

NOTE: Mean high salinity is defined as the average of the upper 33 percent of salinity readings taken during the period of record.

Variable V<sub>6</sub> Aquatic organism access.



Line Formula

 $SI = (0.7 \times Access Value) + 0.3$ 

NOTE: Access Value =  $P \times R$ , where "P" = percentage of wetland area considered accessible by estuarine organisms during normal tidal fluctuations, and "R" = Structure Rating.

Refer to Attachment 6, "Procedure For Calculating Access Value," for complete information on calculating "P" and "R" values.

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Revised May 2, 1994

#### BRACKISH MARSH

#### Vegetation:

Variable  $V_1$  Percent of wetland area covered by emergent

vegetation (≥ 10 percent canopy cover).

Variable  $V_2$  Percent of open water area dominated (> 50 percent

canopy cover) by aquatic vegetation.

#### Interspersion:

Variable  $V_3$  Marsh edge and interspersion.

#### Water Depth:

Variable  $V_4$  Percent of open water area  $\leq 1.5$  feet deep, in

relation to marsh surface.

#### Water Ouality:

Variable V<sub>5</sub> Average annual salinity.

#### Aquatic Organism Access:

Variable V<sub>6</sub> Aquatic organism access.

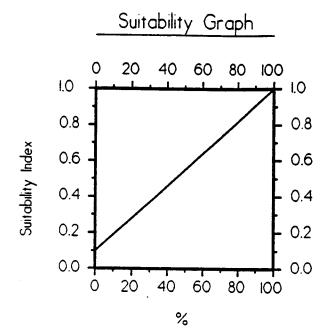
#### HSI Calculation:

HSI = 
$$\frac{[3.5 \times (SIV_1^3 \times SIV_2 \times SIV_6)^{1/5}] + \left[\frac{(SIV_3 + SIV_4 + SIV_5)}{3}\right]}{4.5}$$

Attachment 2

#### BRACKISH MARSH

Variable  $V_1$  Percent of wetland area covered by emergent vegetation ( $\geq$  10 percent canopy cover).

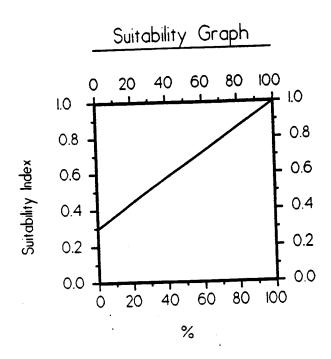


#### Line Formula

 $SI = (0.009 \times %) + 0.1$ 

#### BRACKISH MARSH

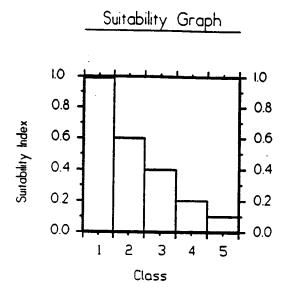
Variable  $V_2$  Percent of open water area dominated (> 50 percent canopy cover) by aquatic vegetation.



#### Line Formula

 $SI = (0.007 \times %) + 0.3$ 

Variable  $V_3$  Marsh edge and interspersion.

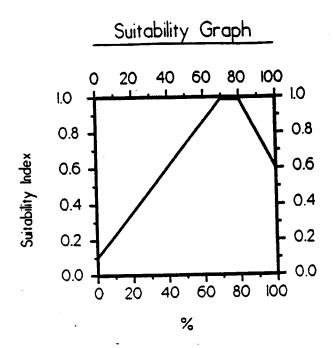


Instructions for Calculating SI for Variable 3:

- Refer to Attachment 5 for examples of the different interspersion classes (=types).
- 2. Estimate percent of project area in each class and compute a weighted average to arrive at  $SIV_3$ . If the entire project area is solid marsh, assign an interspersion class #1 (SI=1.0). Conversely, if the entire project area is open water, assign an interspersion class #5 (SI=0.1).

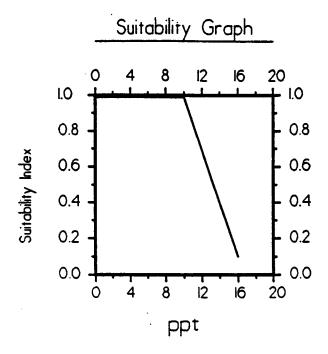
#### BRACKISH MARSH

Variable  $V_4$  Percent of open water area  $\leq$  1.5 feet deep, in relation to marsh surface.



#### Line Formula

If  $0 \le % < 70$ , then SI =  $(0.01286 \times %) + 0.1$ If  $70 \le % < 80$ , then SI = 1.0If  $% \ge 80$ , then SI =  $(-0.02 \times %) + 2.6$  Variable  $V_5$  Average annual salinity.



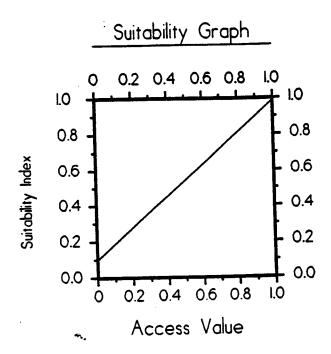
#### Line Formula

If  $0 \le ppt < 10$ , then SI = 1.0

If ppt  $\geq$  10, then SI = (-0.15 x ppt) + 2.5

#### BRACKISH MARSH

Variable V<sub>6</sub> Aquatic organism access.



#### Line Formula

 $SI = (0.9 \times Access Value) + 0.1$ 

Note: Access Value =  $P \times R$ , where "P" = percentage of wetland area considered accessible by estuarine organisms during normal tidal fluctuations, and "R" = Structure Rating.

Refer to Attachment 6, "Procedure For Calculating Access Value," for complete information on calculating "P" and "R" values.

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Revised May 2, 1994

SALINE MARSH

Vegetation:

Variable V<sub>1</sub> Percent of wetland area covered by emergent

vegetation (≥ 10 percent canopy cover).

Variable  $V_2$  Percent of open water area dominated (> 50 percent

canopy cover) by aquatic vegetation.

Interspersion:

Variable V<sub>3</sub> Marsh edge and interspersion.

Water Depth:

Variable  $V_4$  Percent of open water area 1.5 feet deep, in

relation to marsh surface.

Water Ouality:

Variable V<sub>5</sub> Average annual salinity.

Aquatic Organism Access:

Variable V<sub>6</sub> Aquatic organism access.

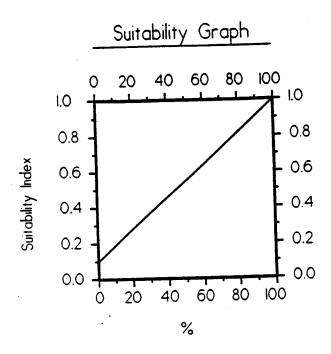
**HSI** Calculation:

 $HSI = \frac{[3.5 \times (SIV_1^3 \times SIV_2^{0.5} \times SIV_6^{1.2})^{1/4.7}] + \left[\frac{(SIV_3 + SIV_4 + SIV_5)}{3}\right]}{4.5}$ 

Attachment 3

#### SALINE MARSH

Variable  $V_1$  Percent of wetland area covered by emergent vegetation ( $\geq$  10 percent canopy cover).



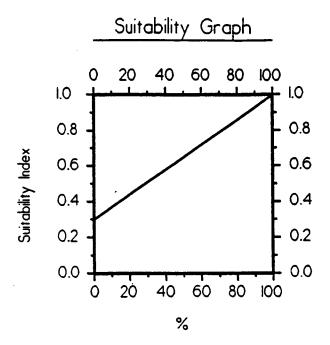
#### Line Formula

 $SI = (0.009 \times %) + 0.1$ 

SALINE MARSH

Variable V<sub>2</sub>

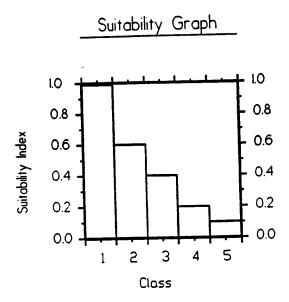
Percent of open water area dominated (> 50 percent canopy cover) by aquatic vegetation.



Line Formula

 $SI = (0.007 \times %) + 0.3$ 

Variable V<sub>3</sub> Marsh edge and interspersion.

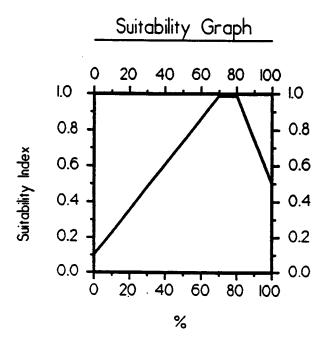


Instructions for Calculating SI for Variable 3:

- 1. Refer to Attachment 5 for examples of the different interspersion classes (=types).
- 2. Estimate percent of project area in each class and compute a weighted average to arrive at  $SIV_3$ . If the entire project area is solid marsh, assign an interspersion class #1 (SI=1.0). Conversely, if the entire project area is open water, assign an interspersion class #5 (SI=0.1).

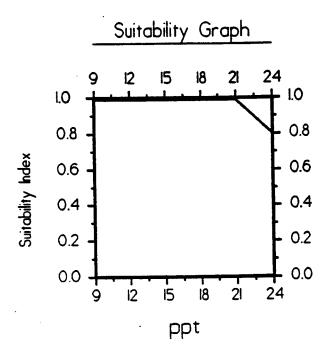
#### SALINE MARSH

Variable  $V_4$  Percent of open water area  $\leq 1.5$  feet deep, in relation to marsh surface.



#### Line Formula

If  $0 \le % < 70$ , then SI =  $(0.01286 \times %) + 0.1$ If  $70 \le % < 80$ , then SI = 1.0If  $% \ge 80$ , then SI =  $(-0.025 \times %) + 3.0$  Variable V<sub>5</sub> Average annual salinity.

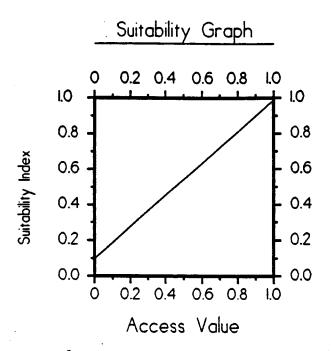


#### Line Formula

If  $9 \le ppt < 21$ , then SI = 1.0

If ppt  $\ge 21$ , then SI = (-0.067 x ppt) + 2.4

Variable V<sub>6</sub> Aquatic organism access.



Line Formula

 $SI = (0.9 \times Access Value) + 0.1$ 

Note: Access Value =  $P \times R$ , where "P" = percentage of wetland area considered accessible by estuarine organisms during normal tidal fluctuations, and "R" = Structure Rating.

Refer to Attachment 6, "Procedure For Calculating Access Value," for complete information on calculating "P" and "R" values.

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Revised August 6, 1992

#### CYPRESS-TUPELO SWAMP

#### Water Depth and Duration:

Variable  $V_1$  Water regime.

#### Water Ouality:

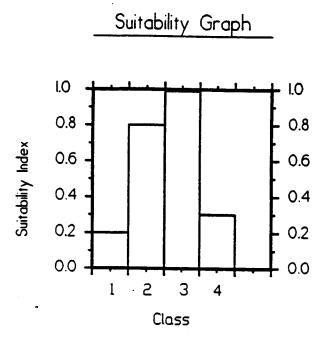
Variable V<sub>2</sub> Water flow/exchange.

Variable V<sub>3</sub> Average high salinity.

#### **HSI** Calculation:

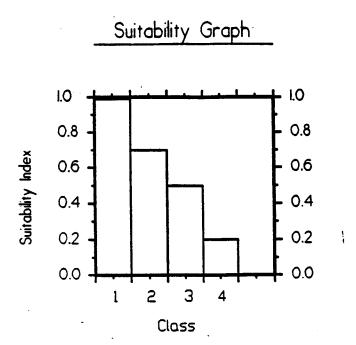
 $HSI = (SIV_1 \times SIV_2 \times SIV_3)^{1/3}$ 

Variable V<sub>1</sub> Water regime.



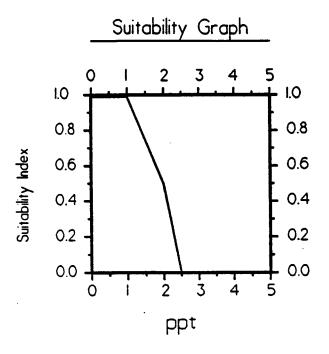
- 1. Permanently Flooded: water covers the substrate throughout the year in all years.
- 2. Semipermanently Flooded: surface water is present throughout the growing season in most years.
- 3. Seasonally Flooded: surface water is present for extended periods, especially in the growing season, but is absent by the end of the growing season in most years.
- 4. Temporarily Flooded: surface water is present for brief periods during the growing season, but the water table usually lies well below the surface for most of the season.

Variable V<sub>2</sub> Water flow/exchange.



- 1. Receives abundant and consistent riverine input and through-flow.
- 2. Moderate water exchange, through riverine or tidal input.
- 3. Limited water exchange, through riverine or tidal input.
- 4. No water exchange (stagnant, impounded).

Variable V<sub>3</sub> Average high salinity.

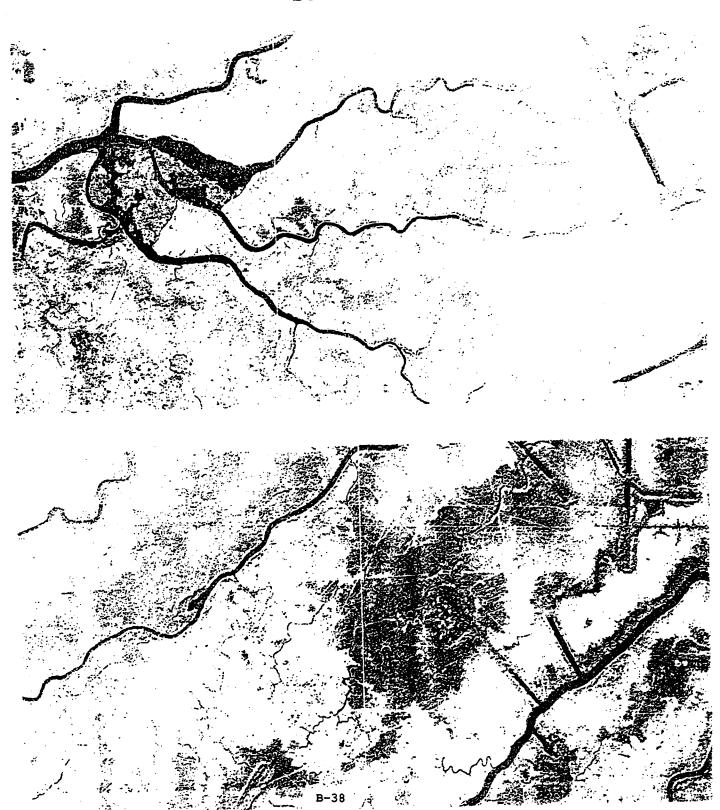


#### Line Formula

If  $0 \le ppt < 1$ , then SI = 1.0If  $1 \le ppt < 2$ , then  $SI = (-0.5 \times ppt) + 1.5$ If  $2 \le ppt < 2.5$ , then  $SI = (-1.0 \times ppt) + 2.5$ If  $ppt \ge 2.5$ , then SI = 0

Average high salinity is defined as the average of the upper 33 percent of salinity readings taken during the period of record.

## Variable 3-Marsh Interspersion Type 1 Scale 1" = 2000'



Variable 3 - Marsh Interspersion Type 2 Scale 1" = 2000'



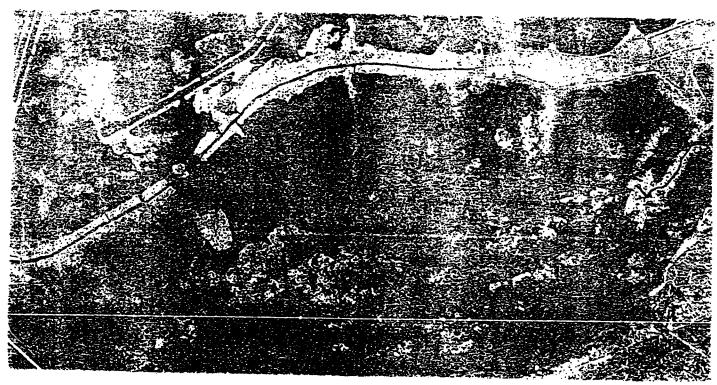


Variable 3 - Marsh Interspersion Type 3 Scale 1" = 2000'

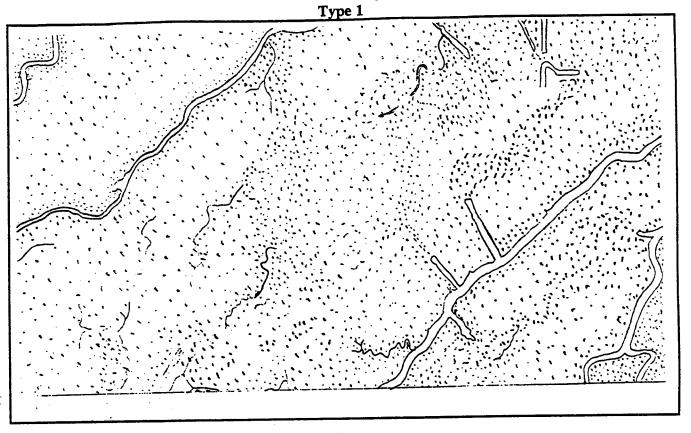


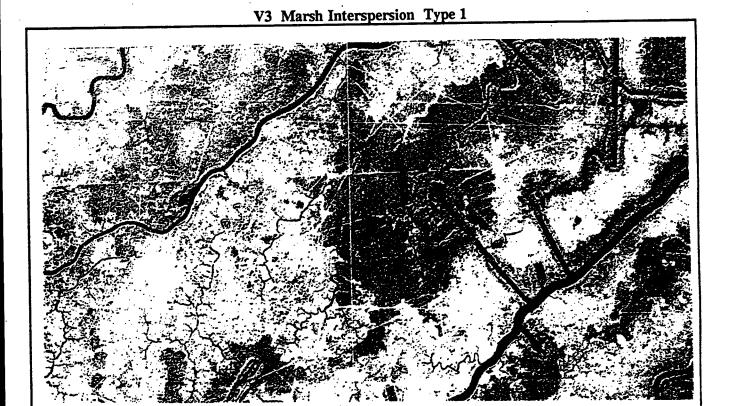
Variable 3 - Marsh Interspersion Type 4 Scale 1" = 2000'





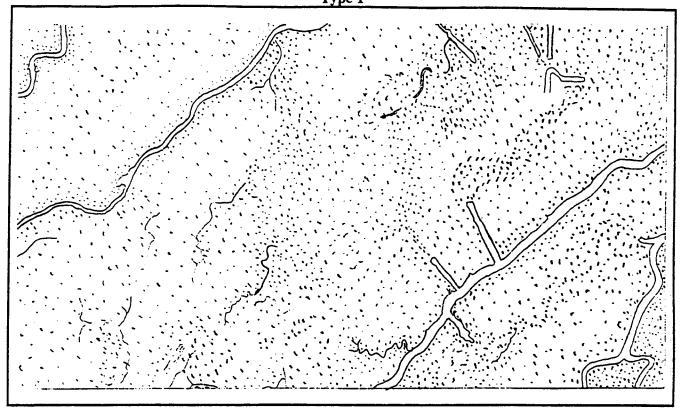
V3 Marsh Interspersion



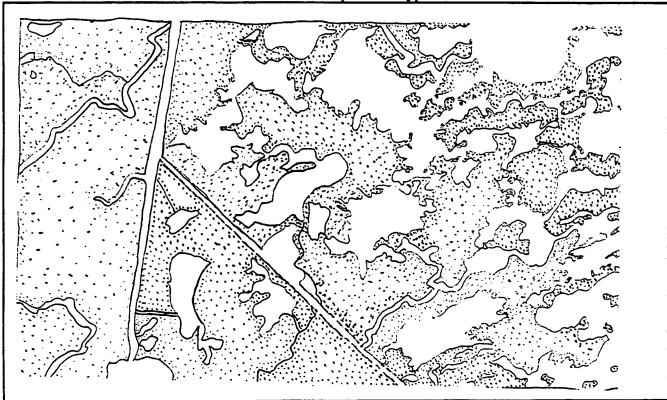


B-42

V3 Marsh Interspersion Type 1







- Determine the percent of wetland area accessible by estuarine organisms during normal tidal fluctuations (P) for baseline (TYO) conditions. P may be determined by examination of aerial photography, knowledge of field conditions, or other appropriate methods.
- 2. Determine the Structure Rating (R) for each project structure as follows:

Structure Type	Rating
open system	1.0
rock weir set at 1ft BML1, w/boat bay	0.8
rock weir with boat bay	0.6
rock weir set at ≥ 1ft BML	0.6
slotted weir with boat bay	0.6
open culverts	0.5
weir with boat bay	0.5
weir set at ≥ 1ft BML	0.5
slotted weir	0.4
flapgated culvert with slotted weir	0.35
variable crest weir	0.3
flapgated variable crest weir	0.25
flapgated culvert	0.2
rock weir	0.15
fixed crest weir	0.1
solid plug	0.0001

#### Below Marsh Level

For each structure type, the rating listed above pertains only to the standard structure configuration and assumes that the structure is operated according to common operating schedules consistent with the purpose for which that structure is designed. In the case of a "hybrid" structure or a unique application of one of the above-listed types (including unique or "non-standard" operational schemes), the WVA analyst(s) may assign an appropriate Structure Rating between 0.0001 and 1.0 that most closely approximates the relative degree to which the structure in question would allow ingress and egress of estuarine organisms. In those cases, the rationale used in developing the new Structure Rating shall be documented.

3. Determine the Access Value. Where multiple openings equally affect a common "accessible unit," the Structure Rating (R) of the structure proposed for the "major" access point for the unit will be used to calculate Access Value. The designation

Attachment 6

of "major" will be made by the Environmental Work Group. An "accessible unit" is defined as a portion of the total accessible area that is served by one or more access routes (canals, bayous, etc.), yet is isolated in terms of estuarine organism access to or from other units of the project area. Isolation factors include physical barriers that prohibit further movement of estuarine organisms, such as natural lever ridges and spoil banks; and dense marsh that lacks channels, trenasses, and similar small connections that would, if present, provide access and intertidal refugia for estuarine organisms.

Access Value should be calculated according to the following examples (note: for all examples, P for TYO = 90 percent. That designation is arbitrary and is used only for illustrative purposes; P could be any percentage from 0 percent to 100 percent):

a. One opening into area; no structure.

b. One opening into area that provides access to the entire 90 percent of the project area deemed accessible. A flapgated culvert with slotted weir is placed across the opening.

Access Value = 
$$P \times R$$
  
= .90 x .6  
= .54

c. Two openings into area, each capable by itself of providing full access to the 90 percent of the project area deemed accessible in TYO. Opening #2 is determined to be the major access route relative to opening #1. A flapgated culvert with slotted weir is placed across opening #1. Opening #2 is left unaltered.

Note: Structure #1 had no bearing on the Access Value calculation because its presence did not reduce access (opening #2 was determined to be the major access route, and access through that route was not altered).

d. Two openings into area. Opening #1 provides access to an accessible unit comprising 30 percent of the area. Opening #2 provides access to an accessible unit comprising the remaining 60 percent of the project area. A flapgated culvert with slotted weir is placed across #1. Opening #2 is left open.

Access Value = weighted avg. of Access Values of the two accessible units

=  $([P1 \times R1] + [P2 \times R2])/(P1 + P2)$ =  $([.30 \times 0.6] + [.60 \times 1.0])/(.30 + .60)$ = (.18 + .60)/.90= .78/.90= .87

Note: P1 + P2 = .90, because only 90 percent of the study area was determined to be accessible at TYO.

e. Three openings into area, each capable of providing full access to the entire area independent of the others.

Opening #3 is determined to be the major access route relative to openings #1 and #2. Opening #1 is blocked with a solid plug. Opening #2 is fitted with a flapgated culvert with slotted weir, and opening #3 is left open.

Access Value = P = .90

Note: Structures #1 and #2 had no bearing on the Access Value calculation because their presence did not reduce access (opening #3 was determined to be the major access route, and access through that route was not altered).

f. Three openings into area, each capable of providing full access to the entire area independent of the others.

Opening #2 is determined to be the major access route relative to openings #1 and #3. Opening #1 is blocked with a solid plug. Opening #2 is fitted with a flapgated culvert with slotted weir, and opening #3 is fitted with a fixed crest weir.

Access Value =  $P \times R2$ = .90 x .6 = .54

Note: Structures #1 and #3 had no bearing on the Access Value calculation because their presence did not reduce access. Opening #2 was determined beforehand to be the major access route; thus, it was the flapgated culvert with slotted weir across that opening that actually served to limit access.

g. Three openings into area. Opening #1 provides access to an accessible unit comprising 20 percent of the area. Openings #2 and #3 provide access to an accessible unit comprising the remaining 70 percent of the area, and within that area, each is capable by itself of providing full

access. However, opening #3 is determined to be the major access route relative to opening #2. Opening #1 is fitted with an open culvert, #2 with a flapgated culvert with slotted weir, and #3 with a fixed crest weir.

Access Value = 
$$([P1 \times R1] + [P2 \times R3])/(P1 + P2)$$
  
=  $([.20 \times .7] + [.70 \times .6])/(.20 + .70)$   
=  $(.14 + .42)/.90$   
=  $.56/.90$   
=  $.62$ 

h. Three openings into area. Opening #1 provides access to an accessible unit comprising 20 percent of the area. Opening #2 provides access to an accessible unit comprising 40 percent of the area, and opening #3 provides access to the remaining 30 percent of the area. Opening #1 is fitted with an open culvert, #2 a flapgated culvert with slotted weir, and #3 a fixed crest weir.

Access Value = 
$$\frac{([P1 \times R1] + [P2 \times R2] + [P3 \times R3])}{(P1 + P2 + P3)}$$

$$= \frac{([.20 \times .7] + [.40 \times .6] + [.30 \times .1])}{(.20 + .40 + .30)}$$

$$= \frac{(.14 + .24 + .03)}{.90}$$

$$= .41/.90$$

$$= .46$$

# PUBLISHED HABITAT SUITABILITY INDEX (HSI) MODELS CONSULTED FOR VARIABLES FOR POSSIBLE USE IN THE WETLAND VALUE ASSESSMENT MODELS

#### Estuarine Fish and Shellfish

Freshwater Fish

pink shrimp
white shrimp
brown shrimp
spotted seatrout
Gulf flounder
southern flounder
Gulf menhaden
juvenile spot
juvenile Atlantic croaker
red drum

channel catfish largemouth bass red ear sunfish bluegill

#### Reptiles and Amphibians

Birds

American alligator slider turtle bullfrog

clapper rail
great egret
northern pintail
mottled duck
coot
marsh wren
great blue heron
laughing gull
snow goose
red-winged blackbird
roseate spoonbill

white-fronted goose

#### Mammals

mink muskrat

Attachment 7

## Coastal Wetlands Planning, Protection and Restoration Act

6<sup>th</sup> Priority Project List Report

Appendix C

Engineering Designs and Cost Estimates
For Candidate Projects

### Appendix C

### Engineering Designs and Cost Estimate, For Candidate Projects

## Table of Contents

Table	
Number	Page
	<u>Number</u>
C-1	Black Bayou Hydrologic Restoration (XCS-48)
C-2	bayou boeur rump station.
	Increments 0 and 1 (XTE-32 and XTE-32i)
C-3	DOTER WILL CIEVASSES (PMK-1())
C-4	Ft. Jackson/Boothville Diversion (PBA-44)
C-5	Marsh Island Hydrologic Restoration (TV5/7)
C-6	Penchant Basin Plan, with and
	without Shoreline Stabilization (PTE-26 and PTE-26i) C-4
C-7	Sediment Trapping at the Jaws (PTV-19b)
C-8	June Avery Canals Hydrologic Restoration
	Increment 0 and Increment 1, Bank Stabilization Only,
	(AIV-25 and AIV-251)
C-9	Myrcie Glove Siphon Enlargement (PRA-48)
C-10	Chamier Armor Gap West (XMR-10F)
C-11	Lake Boudreaux Basin Freshwater Introduction and
	Hydrologic Management,
	Alternatives A and B (TE-7fA and TE-7fB)
C-12	narourche Parish Dedicated Dredging.
	Increments 1 thru 6 (CW-6i thru CW-6vi)
C-13	Baracaria waterway "Dupre Cut"
	Shoreline Protection East (PBA-12b)
C-14	bedicated bredging in the
	Mississippi River (CW-1)
C-15	Marsh Creation East Of the Atchafalava Piver
	Avoca Island, Alternative A. and
	Creole Bayou, Alternative B (CW-5A and CW-5B)
C-16	Spanish Pass Diversion (PBA-11)
C-17	bedicated bredging at
	West Point a la Hache (CW-4)
C-18	breakwaters at Rockeretter Refuge (DME-2)
C-19	Dascpan/ Catelifiedd Dredding for Marsh Creation in the
	Mississippi River Delta Region
<b>a</b> 20	Demonstration Project, (XMR-12b)
C-20	Nuclia harvest and wettand Restoration
C-21	Demonstration Project, (CW-7)
C-21	bediment frapping Device Demonstration
	Project at Cheniere Au Tigre, (PTV-5)

### Legend

LF = Linear Feet EA = Each CY = Cubic Yard SY = Square Yard TN = Ton LS = Lump Sum

Table C-1
Estimated Construction Cost
Black Bayou Hydrologic Restoration, XCS-48

Item	Description	Quantity	Unit	Unit Cost(\$)	Amount(\$)
1	Foreshore Dike/GIWW	20,000	LF	100.00	2,000,000.00
2	Plantings	53,200	EA	6.50	350,000.00
3 .		1	LS	237,000.00	237,000.00
4	Plugs w/ Culverts @	1	LS	224,500.00	224,500.00
5	Gates-Burton Canal Plugs w/ Culverts @ Gates-Vinton Ditch	1	LS	193,000.00	193,000.00
6	Rockliner in Black	1,280	TN	25.00	32,000.00
7	Bayou Replace Culverts & Rd.	1	LS	93,000.00	93,000.00
8	Rock Weir w/ Black	1	LS	20,000.00	20,000.00
	Bayou @ Blocks Creek TOTAL				3,149,500.00

Table C-2
Estimated Construction Cost\*
Bayou Boeuf Pump Station, XTE-32, XTE-32i

 Item	Description	Quantity	Unit	Unit Cost(\$)	Amount(\$)	•
 N/A	N/A	N/A	N/A	N/A	N/A	-

<sup>\*</sup>Funding approved by the Task Force is for an evaluation to determine the additional pumping costs of the project.

Table C-3 Estimated Construction Cost Delta-Wide Crevasses, PMR-10

Description	Quantity	Unit	Unit Cost(\$)	Amount(\$)
New Crevasse	13,333	CY	3.00	40,000.00
100'X6'X600'/27				
New Crevasse	7,778	CY	3.00	23,335.00
100'X6'X350'/27				
New Crevasse	2,222	CX	3.00	6,667.00
100'X6'X100'/27				
New Crevasse	6,667	CY	3.00	20,000.00
100'X6'X300'/27				
New Crevasse	8,444	CY	3.00	25,332.00
100'X6'X380'/27				
Mobilization Fee	1	LS	60,000.00	60,000.00
Rehab of Existing	168,519	CY	3.00	505,556.00
Crevasse				
13'X100'X5'X700'/27				
TOTAL				680,890.00
	New Crevasse 100'X6'X600'/27 New Crevasse 100'X6'X350'/27 New Crevasse 100'X6'X100'/27 New Crevasse 100'X6'X300'/27 New Crevasse 100'X6'X380'/27 Mobilization Fee Rehab of Existing Crevasse 13'X100'X5'X700'/27	New Crevasse 13,333 100'X6'X600'/27 New Crevasse 7,778 100'X6'X350'/27 New Crevasse 2,222 100'X6'X100'/27 New Crevasse 6,667 100'X6'X300'/27 New Crevasse 8,444 100'X6'X380'/27 Mobilization Fee 1 Rehab of Existing 168,519 Crevasse 13'X100'X5'X700'/27	New Crevasse 13,333 CY 100'X6'X600'/27 New Crevasse 7,778 CY 100'X6'X350'/27 New Crevasse 2,222 CY 100'X6'X100'/27 New Crevasse 6,667 CY 100'X6'X300'/27 New Crevasse 8,444 CY 100'X6'X380'/27 Mobilization Fee 1 LS Rehab of Existing 168,519 CY Crevasse 13'X100'X5'X700'/27	New Crevasse 13,333 CY 3.00 100'X6'X600'/27 New Crevasse 7,778 CY 3.00 100'X6'X350'/27 New Crevasse 2,222 CY 3.00 100'X6'X100'/27 New Crevasse 6,667 CY 3.00 100'X6'X300'/27 New Crevasse 8,444 CY 3.00 100'X6'X380'/27 Mobilization Fee 1 LS 60,000.00 Rehab of Existing 168,519 CY 3.00 Crevasse 13'X100'X5'X700'/27

Table C-4
Estimated Construction Cost
Ft. Jackson/Boothville Diversion, PBA-44

Item	Description	Quantity	Unit	Unit Cost(\$)	Amount (\$)
1	Levee Excavation	326,000	CY	3.68	1,200,000.00
2	Channel Excavation	743,000	CY	3.00	2,230,000.00
3	Rip Rap	16,600	TN	16.27	270,000.00
4	Rip Rap	19,200	TN	19.79	380,000.00
5	Bridge Relocations	1	LS	6,000,000.00	6,000,000.00
6	General Relocations	1	LS	600,000.00	600,000.00
	TOTAL				10,080,000.00

Table C-5

Bstimated Construction Cost
Marsh Island Restoration and Marsh Creation, TV/7

**	Item	Description	Quantity	Unit	Unit Cost(\$)	Amount (\$)
	1	Mob and Demob	1	LS	200,000.00	200,000.00
	2a	Earthen Core #1	400	CY	2.00	800.00
	2b	Geotextile #1	685	SY	2.50	1,712.50
	2c	2' Armor Stone #1	478	TN	22.60	10,802.80
	3a	Earthen Core #2	1,600	CY	2.00	3,200.00
	3b	Geotextile #2	1,240	SY	2.50	3,100.00
	3c	2' Armor Stone #2	885	TN	22.60	20,001.00
	4	Backfill Canal #3	30,000	CY	1.30	39,000.00
	5	Refurbish Spoil Dikes	2,000	LF	5.05	10,100.00
		Adjacent to #3				20,200.00
	6	Rear Closure #3	120	LF	9.90	1,188.00
	7	Earthen Closure @	1,565	CY	2.00	3,130.00
		Mouth of Canal #3				0,220.00
	8a	Earthen Core #3	885	CY	2.00	1,770.00
	<b>48</b>	Geotextile #3	1,100	SY	2.50	2,750.00
	8c	2' Armor Stone #3	790	TN	22.60	17,854.00
	9	Backfill Canal #4	26,000	CY	1.30	33,800.00
	10	Refurbish Spoil Dikes	1,800	LF	5.05	9,090.00
		Adjacent to #4	-,		3.03	3,030.00
	11	Rear Closure #4	130	LF	6.75	077 50
	12	Earthen Closure @	1,340	CY	2.70	877.50
		Mouth of Canal #4	-,	٠.	2.70	3,618.00
	13a	Earthen Core #4	740	CY	2.00	1 400 00
	13b	Geotextile #4	1,055	SY	2.50	1,480.00
	13c	2' Armor Stone #4	730	TN	22.60	2,637.50
	14a	Earthen Core #5	16,980	CY	2.00	16,500.00
	14b	Geotextile #5	9,345	SY	2.50	33,960.00
	14c	2' Armor Stone #5	4,550	TN	22.60	23,362.50
	15a	Earthen Core #6	750	CY	2.00	102,830.00
	15b	Geotextile #6	950	SY	2.50	1,500.00
	15c	2' Armor Stone #6	675	TN	22.60	2,375.00
	16a	Earthen Core #7	1,550	CY	2.00	15,255.00
	16b	Geotextile #7	1,480	SY	2.50	3,100.00
	16c	2' Armor Stone #7	1,075	TN		3,700.00
	17a	Earthen Core #8 & #9	775	CY	22.60	24,295.00
	17b	Geotextile #8 & #9	950	SY	2.00	1,550.00
	17c	2' Armor Stone #8 &			2.50	2,375.00
	1/0	#9	675	TN	22.60	15,255.00
	18	Backfill Canal #9	47,000	.007		
	19	Refurbish Dikes	-	·CY	1.70	79,900.00
	19	Around #9	3,700	LF	5.05	18,685.00
	20	Closure of Retention	0.000			
	20	Dikes	8,000	LF	10.10	80,800.00
	21	Dredging-Closure	E0E 000	a.		
		Construction	585,000	CY	1.30	760,500.00
	22	Filter Fabric	27 200	037		
	23	12" Armor Stone	27,200	SY	2.50	68,000.00
	23	TOTAL	16,150	TN	22.60	364,990.00
		TOTAL				1,985,943.50

Table C-6
Estimated Construction Cost
Perchant Basin, PTE-26, PTE-26i

Item	Description	Quantity	Unit	Unit Cost(\$)	Amount(\$)
1	Mobilization	1	LS	100,000.00	100,000.00
2	Rock Weir w/ Barge Bay(1-1)	1	LS	528,000.00	528,000.00
3	Steel Sheetpile Weir(1-2)	1	LS	668,000.00	668,000.00
4	Rock Weir w/ Barge Bay(1-3)	1	LS	528,000.00	528,000.00
5	Shell Plug w/ Rock Cover (1-7)	1	LS	84,000.00	84,000.00
6	Steel Sheetpile Weir(1-8)	1	LS	181,000.00	181,000.00
7	Steel Sheetpile Weir(1-9)	1	LS	181,000.00	181,000.00
8	Steel Sheetpile Weir (1-10)	1	LS	181,000.00	181,000.00
9	Steel Sheetpile Weir (1-12)	1	LS	181,000.00	181,000.00
10	Steel Sheetpile Weir (1-13)	1	LS	181,000.00	181,000.00
11	Rock Liner(A)	1	LS	28,000.00	28,000.00
12	Rock Weir w/ Barge Bay(1-15)	1	LS	528,000.00	528,000.00
13	Steel Sheetpile Weir (1-16)	1	LS	351,000.00	351,000.00
14	Rock Bank Stabilization	3,600	LF	226.00	813,600.00
15	Rock Bank Stabilization	59,600	LF	37.00	2,205,200.00
16	Marsh Creation TOTAL	1	LS	350,000.00	350,000.00 7,088,800.00

Table C-7
Estimated Construction Cost
Sediment Trapping at "The Jaws", PTV-19b

1	tem	Description	Quantity	Unit	Unit Cost(\$)	Amount (\$)
	1	Mob and Demob	1	LS	50,000.00	50,000.00
	2	Dredging	1	LS	1,165,000.00	1,165,000.00
	3	Plantings	1 .	LF	355,200.00	355,200.00
		TOTAL				1,570,200.00

Table C-8
Estimated Construction Cost
Oaks/Avery Canal Hydrologic Restoration & Bankline Protection, XTV-25

It	em Description	Quantity	Unit	Unit Cost(\$)	Amount (S)
	1 Mob & Demob	1	LS	25,000.00	25,000.00
	2 Low Sill Structure(Oaks)	1	LS	186,000.00	186,000.00
•	Bank Stabilization (Oaks)	800	LF	180.00	144,000.00
	Bank Stabilization (Intracoastal)	6,000	LF	70.00	420,000.00
:	Rock Weir	1	LS	21,000.00	21,000.00
(	Earth Plug	1	EA	22,000.00	22,000.00
•	7 Spoil Bank Maintenance	1,000	LF	5.00	5,000.00
	Low Sill Structure(Avery)	1	LS	465,000.00	465,000.00
9	Vegetative Plantings	26,400	LF	3.50	92,400.00
1	O Sediment Fencing TOTAL	3,300	LF	6.00	19,800.00

Table C-9
Estimated Construction Cost
Myrtle Grove Freshwater Diversion, PBA-48

Ite		Quantity	Unit	Unit Cost(\$)	Amount(\$)
1	Bond & Insurance	1	LS	95,000.00	95,000.00
2	Mobilization	1	LS	378,000.00	378,000.00
3	Temporary Facilities	1	LS	214,200.00	241,200.00
4	Cleaning and Grubbing	15	AC	11,086.67	166,300.00
5	Demob, Sitework, & Cleanup	1	LS	10,000.00	10,000.00
6	Pipeline Excavation	37,000	CY	5.86	217,000.00
7	Discharge Structure Excavation	38,900	CY	5.85	227,400.00
8	Levee Embankment	32,600	CY	3.00	97,800.00
9	Sand Bedding & Hauling	26,500	CY	10.08	267,100.00
10	Shell	5,550	CY	25.21	139,900.00
11	Backfill from Spoil	70,400	CY	1.00	70,400.00
12	Outfall Channel Excavation	171,100	CY	5.85	1,001,000.00
13	72" Steel Pipe	16,000	LF	183.54	2,936,700.00
14	72" Pipe Labor	16,000	LF	21.39	342,300.00
15	Highway Crossing Material	960	LF	294.69	282,900.00
16	Highway Crossing Labor	960	LF	328.13	315,000.00
17	Steel Sheet Pile M&L	330	LF	560.30	184,900.00
18	Concrete	165	CY	267.27	44,100.00
19	Rip Rap	4,600	TN	23.00	105,800.00
20	Steel Pipe Piles M&L	1	LS	369,500.00	369,500.00
21	Structural Steel & Steel Details M&L	1	LS	423,400.00	423,400.00
22	72" Pipe Structure Installation	1	LS	109,000.00	109,000.00
23	Misc. Steel	1	LS	63,000.00	63,000.00
24	Painting	1	LS	50,400.00	50,400.00
25	Electrical	1	LS	19,400.00	19,400.00
26	Vacuum System	1	LS	126,500.00	126,500.00
27	Access Road	1	LS	82,500.00	82,500.00
28	X-Ray Marine Welds	1	LS	1,400.00	1,400.00
. 29	Two Pump Stations	1	LS	500,000.00	500,000.00
	TOTAL				8,867,900.00

Table C-10 Estimated Construction Cost Channel Armor Gap, XME-10b

Item	Description	Quantity	Unit	Unit Cost(\$)	Amount(\$)
1	Modification of	1	LS		40,100.00
	Existing Outlet				
2a	Armor Stone Addition	20,300	TN	22.00	447,000.00
2b	Filter Stone Addition	4,400	CY	31.00	136,000.00
2c	Shell or Shell	12,300	CY	24.00	295,000.00
	Substitude Addition				
3a	Removal and	315	LF	100.00	32,000.00
	Relocation of	(Re-			
	Sheetpile	used)			
3b	Removal and	105	LF	300.00	32,000.00
	Relocation of	(New)			
	Sheetpile				
4	Clearing	5	AC	4,520.00	24,000.00
5	Excavation of Small	5,500	CY	4.00	22,000.00
	Cut	•			
6	Dredging & Disposal	24,000	CY	2.00	48,000.00
-	TOTAL	,			487,100.00

Table C-11
Estimated Construction Cost
Lake Boudreaux Basin Freshwater Introduction and
Outfall Management, TE-7f

Item	Description	Quantity	Unit	Unit Cost(\$)	Amount(\$)
1	Enlarge Inflow Trenasse	19,300	CY	2.60	51,000.00
2	Enlarge Inflow Portion of St. Louis Canal	136,800	CY	2.60	356,000.00
3	Enlarge Outflow Portion of St. Louis Canal	126,000	CY	2.60	328,000.00
4	St. Louis Canal Structure	7	LF	100,000.00	700,000.00
5	St. Louis Canal Bridge	1	LF	600,000.00	600,000.00
6	Grand Caillou Structure	1	LF	400,000.00	400,000.00
7	Other Outfall Management Features	2	LF	500,000.00	500,000.00
8	Grand Caillou "Clean- out" North of St. Louis Canal	1	LF	300,000.00	300,000.00
9	Flood protection South of St. Louis Canal	1	LF	1,000,000.00	1,000,000.00
	TOTAL				4,235,000.00

Table C-12
Estimated Construction Cost
Lafourche Dedicated Dredging, CW-6i, CW-6ii, CW-6iii, CW-6iv, CW-6v

61 3-4-1	Item		Quantity	Unit	Unit Cost(\$)	Amount (\$)
6" Aquatics	1	Dredge (6" SRX-109)	1	LS	150,300.00	150,300.00
Unlimited	2	Augerhead(5' X 6")	1	LS	33,000.00	33,000.00
Aquamog SRX-	3	Clam Bucket (48")	1	LS	6,200.00	6,200.00
109	4	Dredge Trailer	1	LS	24,000.00	24,000.00
	5	17' Polar Skiff	1	LS	10,000.00	10,000.00
	6	Trucks	2	LS	15,000.00	30,000.00
	7	6" Polyethylene	1	LS	6,000.00	6,000.00
		Discharge Pipe TOTAL				259,500.00
6" Aquatics	1	Dredge(6" SRX-109)	2	LS	150 200 00	300 600 00
Unlimited	2	Augerhead (5' X 6")	2	LS	150,300.00	300,600.00
Aquamog SRX-	3	Clam Bucket (48")	2	LS	33,000.00	66,000.00
109	4	Dredge Trailer	2		6,200.00	12,400.00
	5	17' Polar Skiff	1	LS	24,000.00	48,000.00
	6	Trucks	2	LS	10,000.00	10,000.00
	7	6" Polyethylene	2	LS	15,000.00	30,000.00
	·	Discharge Pipe	2	LS	6,000.00	12,000.00
		TOTAL				479,000.00
8 Aquatics	1	Dredge(6" SRX-109)	1	LS	175,500.00	175,500.00
Unlimited	2	Augerhead(5' X 6")	1	LS	41,000.00	41,000.00
Aquamog PRX-	3	Clam Bucket (48")	1	LS	6,200.00	6,200.00
163	4	Dredge Trailer	1	LS	40,000.00	40,000.00
	5	17' Polar Skiff	1	LS	10,000.00	10,000.00
	6	Trucks	2	LS	15,000.00	30,000.00
	7	8" Polyethylene Discharge Pipe	1	LS	14,000.00	14,000.00
		TOTAL				316,700.00
8° Aquatics	1	Dredge(6" SRX-109)	2	LS	175,500.00	351,000.00
Unlimited	2	Augerhead(5' X 6")	2	LS	41,000.00	
Aquamog PRX-	3	Clam Bucket (48")	2	LS	6,200.00	82,000.00
163	4	Dredge Trailer	2	LS	40,000.00	12,400.00
	5	17' Polar Skiff	1	LS	10,000.00	80,000.00
	6	Trucks	2	LS	15,000.00	10,000.00
	7	8" Polyethylene Discharge Pipe	2	LS	14,000.00	30,000.00 28,000.00
		TOTAL				593,400.00
3 Aquatics	1	Dredge(6" SRX-109)	1	LS	175,500.00	175,500.00
<b>Inlimited</b>	2	Augerhead(5' X 6")	1	LS	41,000.00	
Aquamog PRI-	3	Clam Bucket (48")	1	LS	6,200.00	41,000.00
63 (24 HR	4	Dredge Trailer	ī	LS	40,000.00	6,200.00
peration)	5	17' Polar Skiff	ī	LS	10,000.00	40,000.00
	6	Trucks	2	LS	15,000.00	10,000.00
	7	8" Polyethylene	1	LS		30,000.00
		Discharge Pipe	<del></del>		14,000.00	14,000.00
		Lighting/Safety Equipment	1	LS	15,000.00	15,000.00
		TOTAL				331,700.00

Table C-13
Estimated Construction Cost
Barataria Bay Waterway East Bank Protection, PBA-12b

 Item	Description	Quantity	Unit	Unit Cost(\$)	Amount (\$)
 1	Mobilization	1	LS	30,000.00	30,000.00
2	Foreshore Rock Dike	118,200	TN	23.00	2,719,000.00
3	Geo-textile	79,000	SY	3.00	237,000.00
4	Excavation	94,000	CY	1.25	117,500.00
-	TOTAL				3,103,500.00

Table C-14
Estimated Construction Cost
Dedicated Dredging for Marsh Creation in the
Mississippi River Delta, CW-1

	Item	Description	Quantity	Unit	Unit Cost(\$)	Amount(\$)
Dead Woman	1	Mob & Demob	1	LS	100,000.00	100,000.00
Outside Pond	2	Retention Dikes & Closures	1500	LF	15.25	22,900.00
	3	Excavation and Placement of Dredged Material	2,400,00 0	CY	0.85	2,040,000.00
		TOTAL				2,162,900.00
Little 27	1	Mob & Demob	1	LS	100,000.00	100,000.00
Pond	2	Retention Dikes & Closures	8,000	LF	15.25	122,000.00
	3	Excavation and Placement of Dredged Material	520,000	CA	0.90	468,000.00
		TOTAL				690,000.00
Spanish	1	Mob & Demob	1	LS	100,000.00	100,000.00
Island	2	Retention Dikes & Closures	9,000	LF	15.25	137,300.00
	3	Excavation and Placement of Dredged Material	260,000	CY	0.90	234,000.00
		TOTAL				471,300.00
Post Pond	1	Mob & Demob	1	LS	100,000.00	100,000.00
	2	Retention Dikes & Closures	9,000	LF	15.25	137,300.00
	3	Excavation and Placement of Dredged Material	970,000	CY	0.90	873,000.00
		TOTAL				1,110,300.00

Table C-14
Estimated Construction Cost
Dedicated Dredging for Marsh Creation in the
Mississippi River Delta, CW-1

	Item	Description	Quantity	Unit	Unit Cost(\$)	Amount(\$)
Alberts Pond	1	Mob & Demob	1	LS	100,000.00	100,000.00
	2	Retention Dikes & Closures	6500	LF	15.25	99,100.00
	3	Excavation and Placement of Dredged Material	780,000	CY	0.90	702,000.00
		TOTAL				901,100.00
Morgan Pond	1	Mob & Demob	1	LS	100,000.00	100,000.00
	2	Retention Dikes & Closures	7,000	LF	15.25	106,800.00
	3	Excavation and Placement of Dredged Material	520,000	CA	0.90	468,000.00
		TOTAL				674,800.00
Stone Pond	1	Mob & Demob	1	LS	150,000.00	150,000.00
	2	Retention Dikes & Closures	11,000	LF	15.25	167,800.00
	3	Excavation and Placement of Dredged Material	1,650,000	CY	1.65	2,722,500.00
		TOTAL				3,040,300.00
Fresh- water	1	Mob & Demob	1	LS	250,000.00	250,000.00
Reservoir East of	2	Retention Dikes & Closures	N/R	LF	0.00	•
South Pass	3	Excavation and Placement of Dredged Material	5,000,000	CY	0.95	4,750,000.00
		TOTAL				5,000,000.00
Buras Bayou	1	Mob & Demob	1	LS	300,000.00	300,000.00
<b>Site</b>	2	Retention Dikes	22,000	LF		-
	3	Dredging of Oilwells	85,000	CY	10.50	231,000.00
	4	Excavation and	11,000,00	CY	2.00	170,000.00
		Placement of Material	0	CI	1.00	11,000,000.00
		TOTAL				11,701,000.00

Table C-15
Estimated Construction Cost
Marsh Creation Using Dredged Materials
East of the Atchafalaya River, CW-5i

	Item	Description	Quantity	Unit	Unit Cost(\$)	Amount(\$)
Avoca Island	1	Mob & Demob	1	LS	400,000.00	400,000.00
Increment 1	2	Dredging	3,000,000	CY	4.50	13,500,000.00
Inci ciiicii -	•	TOTAL	-,,			13,900,000.00
Creole Bayou	1	Mob & Demob	1	LS	100,000.00	100,000.00
Increment 2	2	Dredging	2,400,000	CY	1.25	3,000,000.00
	-	TOTAL				3,100,000.00

Table C-16
Estimated Construction Cost
Spanish Pass Diversion, PBA-11

Item	Description	Quantity	Unit	Unit Cost(\$)	Amount(\$)
1	Raise Highway Elev.	1	LS	1,278,120.00	1,278,120.00
2	Pre-stressed Concrete Bridge	8,750	SF	75.00	656,250.00
3	Raise Roadway	8,298	LS	40.00	420,100.00
4	Dredging	1	LS	257,650.00	257,650.00
5	Temp. Roads & Culvert	1	LS	319,530.00	319,530.00
6	Crevasse	13,333	CY	4.00	53,332.00
7	Sediment Trapping	6,000	LF	101.00	606,000.00
8	Clearing & Grubbing	1	LS	100,000.00	100,000.00
9	Soil TOTAL	6,667	CA	4.00	26,667.00 3,717,649.00

Table C-17
Estimated Construction Cost
Dedicated Dredging and Marsh Creation at
West Point A La Hache, CW-4

Item	Description	Quantity	Unit	Unit Cost(\$)	Amount(\$)
1	Mob & Demob	1	LS	300,000.00	300,000.00
2	Jack & Bore	1	LS	45,000.00	45,000.00
3	Perimeter Retention Dikes & Closures	30000	LF	10.50	315,000.00
4	Borrow and Placement of Dredged Material for Wetland Creation	6,800,000	CY	0.95	6,460,000.00
	TOTAL				7,120,000.00

Table C-18
Estimated Construction Cost
Coastal Breakwater Placement at Rockefeller Refuge, PME-2

Item	Description	Quantity	Unit	Unit Cost(\$)	Amount(\$)
1	Mob & Demob	1	LS	30,000.00	30,000.00
2	Stone(5,000# Max)	65,000	· TN	35.00	2,275,000.00
3	Geo-textile (300 Lb)	18,500	SY	5.00	92,500.00
	TOTAL				23,975,000.00

Table C-19
Estimated Construction Cost
Dustpan/Cutterhead Dredging for Marsh Creation
in the Mississippi River Delta Region
Demonstration Project, XMR-12b

Item	Description	Quantity	Unit	Unit Cost(\$)	Amount(\$)
1	Dustpan/Cutterhead Dredging (Incremental Cost Above O & M Cost of Navigation-Channel Maintenance Base Plan		LS	926,000	926,000
	TOTAL				926,000

Table C-20
Estimated Construction Cost
Nutria Harvest and Wetland Restoration Demonstration Project, CW-7

Trapping Season/ Fiscal Year	• • • • • • • • • • • • • • • • • • • •		Year 3 (19	99-2000)	Year 5 (2001- 2002)
LDWF	80,000	100,000	100,000	70,000	50,000
Nutria Meat Marketing Plan	100,000	100,000	50,000	50,000	33,333
Trapper Payments(1)		100,000	100,000	100,000	
Nutria Meat Processor	Payment (2)	350,000	350,000	350,000	
NEPA Compliance	20,000				
CWPPRA Oversight	15,000	15,000	15,000	15,000	10,000
TOTAL	215,000	665,000	615,000	585,000	60,000

<sup>(1) \$1.00</sup> Per Nutria Suitable for Human Consumption

Table C-21
Estimated Construction Cost
Sediment Trapping Device Demonstration Project at Cheniere Au Tigre, PTV-5

Item	Description	Quantity	Unit	Unit Cost(\$)	Amount (\$)
1	Mob & Demob	1	LS	40,000.00	40,000,00
2	Sediment Trapping & Installation	1	LS	341,000.00	341,000.00
	TOTAL				381,000.00

<sup>(2) \$0.75</sup> Per Pound of Nutria Meat Sold for Human Consumption

### Coastal Wetlands Planning, Protection and Restoration Act

6<sup>th</sup> Priority Project List Report

Appendix D

Economics Computational Summary
For Candidate Projects

### Appendix D

### Economics Computational Summary For Candidate Projects

### Table of Contents

Project Name	Page
FIOTECC Name	Number
Black Bayou Hydrologic Restoration (XCS-48)	
Increments 0 and 1 (XTE-32 and XTE-32i)	. 5
Deita-wide Crevasses (PMR-10)	17
rt. Jackson/Boothville Diversion (PBA-44)	25
marsh Island Hydrologic Restoration (TV5/7)	. 32
Penchant Basin Plan, with and	
without Shoreline Stabilization (PTE-26 and PTE-26i)	. 36
sediment Trapping at the Jaws (PTV-19b)	. 44
Oaks/Avery Canals Hydrologic Restoration	
Increment 0 and Increment 1, Bank Stabilization Only,	
(XTV-25 and XTV-25i)	4.8
Myrtie Grove Siphon Enlargement (PBA-48)	E 6
Channel Armor Gap West (XMR-10b)	. 50 60
Lake Boudreaux Basin Freshwater Introduction and	. 00
Hydrologic Management,	
Alternatives A and B (TE-7fA and TE-7fB)	63
Lafourche Parish Dedicated Dredging,	. 03
Increments 1 thru 6 (CW-6i thru CW-6vi)	71
Barataria Waterway " Dupre Cut"	. / 1
Shoreline Protection East (PBA-12b)	0.1
Dedicated Dredging in the	, ут
Mississippi River (CW-1)	Q.E
Marsh Creation East of the Atchafalaya River -	95
Avoca Island, Alternative A, and	
Creole Bayou, Alternative B (CW-5A and CW-5B)	00
Spanish Pass Diversion (PBA-11)	107
Dedicated Dredging at	107
West Point a la Hache (CW-4)	111
Breakwaters at Rockefeller Refuge (PME-2)	115

		•
·		

## Black Bayou Hydrologic Restoration (XCS-48, CS

		25		U.097161602	\$6,316,800
(Co-6a) (Co-6a) (Co-6a) (Co-6a) (Co-6a)	Total Brains	SIPPL TOOK I WAS	Amoritization Factor		Total Fully Funded Costs
10.B	S		7.38%	\$5.014.200	
	Project Construction Years:	Interest Rate		Total First Costs	

Average	\$519,000 \$29,500 \$13,700	\$500	2,812	<b>\$</b> 200 2,084
Present Worth	\$5,341,700 \$303,500 \$141,500 \$5,100	\$5,791,800		
Annual Charges	Interest & Amortization Monitoring O & M Costs Other Costs	Total Average Annual Habitat Units	Cost Per Habitat Unit	Average Annual Acres of Emergent Marsh

D-1

## Black Bayou Hydrologi : Restoration (XCS-48, Ct. 5a/12)

First Costs and Annual Charges

	2	Cost			\$348,495	\$2,6 34,962 \$3,484,500	\$ 538 \$645,Rn5	9	\$3,14: .00 \$4,020,000																							
Ü		Contingenty	<b>⊙</b>	<b>0</b> \$	<b>%</b>	\$666,240	\$121 135		\$181,375																							
	Supervision	Inspection	<b>\$</b>	<b>%</b>	<b>9</b>	\$42,308	\$7,692		000,0																							
LDNR	Supervision & Supervision	Administration Administration & Inspection	0\$	<b>9</b>	\$26,246	\$31,495	\$19,249		\$76,990																							
	Supervision &	Administration /	03:	0.7	\$66,250	\$79,500	\$13,25)		\$159,000	Other	Costs	\$500	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$10,000
	Easements	& Land Rights	<b>9</b>	\$125.000	80	9	<b>S</b>	•	\$125,000	08M	Costs	\$13,750	\$13,750	\$13,750	\$13,750	\$13,750	\$13,750	\$13,750	\$13,750	\$13,750	\$13,750	\$13,750	\$13,750	\$13,750	\$13,750	\$13,750	\$13,750	\$13,750	\$13,750	\$13,750	\$13,750	\$275,000
	Engineering		95	\$25,000	\$256,000		S		\$281,000	Monitoring	Costs	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$589,840
	Fiscal		1997	1998	1000	2000	2001		TOTAL	Fiscal	Year	2002	2003	2004	2005	2006	2007	2008	. 2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Total
		Year	S Composited	_			1 Compound	Base Year			Year	1 Discount	2 Discount	3 Discount	4 Discount	5 Discount	6 Discount	7 Discount	8 Discount	_	10 Discount	11 Discount	12 Discount	13 Discount	14 Discount	15 Discount	16 Discount	17 Discount	18 Discount	19 Discount	20 Discount	

Costs amortized over 20 year operation lite.

## Black Bayou Hydrologic Restoration (XCS-48, CS-5a/12)

Prese	Present Valued Costs	sts	Total Discour	) () 1)		,				
			oral Discount	Discounted Costs	\$5,791,934			Amortized Costs	Ş	\$562,754
	Compound	Fiscal		Ĺ	Federal	LDNR				
Year	- 1	Year	& Design	Easements & Land Richts	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
လ	1.427	1997	S	Ş	To limit all of	Administra	& Inspection	Contingency	Construction	Cost
4	1.329	1998	\$33 232	\$166 150	9	0\$	<b>\$</b> 0	<b>%</b>	0\$	9
က	1.238	1999	£316 020	60,001	0.	05 20 20 20 20 20 20 20 20 20 20 20 20 20	<b>%</b>	05		000000
8	1.153	2000	026,0104	O# -	\$82,015	\$32,492	\$0	<b>\$</b>	9	\$199,390
-	1 0 74	2000	2	0\$	\$91,659	\$36,312	\$48.778	\$768 135	04	\$431,427
	1	Total	0\$	\$0	\$14,227	\$20,669	SR 260	£120.060	\$5,U72,538	\$4,017,421
	_	i com	\$350,152	\$166,159	\$187,901	\$89,472	\$57,038	\$898,203	\$520,273	\$693,497
	Discount	Fiscal	Monitoring	O&M	Other					000711000
Year	Rates	Year	Costs	Costs	- 450 - 450 - 450					
7	0.931	2002	\$27 466	£12 806	COSIS					
?	0.867	2003	\$25,580	\$11.000	4400					
က်	0.808	2004	\$23,823	\$11.107	4444					
4	0.752	2005	\$22.187	\$10.344	4404					
က်	0.701	2006	\$20,663	\$9.634	4370					
တ္	0.653	2007	\$19,244	\$8.972	#330 #336	-				
-,	0.608	2008	\$17,922	\$8.356	0750					
ထု	0.566	2009	\$16,691	\$7.782	#304 #383					
o.	0.527	2010	\$15,544	\$7 247	\$203 \$264					
-10	0.491	2011	\$14,477	\$6.749	\$20d					
÷	0.457	2012	\$13,482	\$6.286	6243					
-15	0.426	2013	\$12,556	\$5,854	\$213					
<u>.</u>	0.397	2014	\$11,694	\$5,452	<b>4</b> 108					
-14	0.369	2015	\$10,891	\$5.078	#190 #10E					
-15	0.344	2016	\$10,143	\$4.729	<b>6</b> 103					
-16	0.320	2017	\$9.446	\$4 404	9 1 7 7					
-17	0.298	2018	\$8.797	\$4 102	\$ 100 \$ 140					
-18	0.278	2019	\$8 193	£3 830	94.6					
-19	0.259	2020	\$7,630	<b>43,020</b>	# 139					
-50	0.241	2021	\$7,106	\$3.343	, 671.58 641.00					
	Total	<u>E</u>	\$303,536	\$141,517	\$5,146					
Ŧ	Average Annual	_	\$29.492	\$13.750	6					
		•	!	20,10	0000					

## Black Bayou Hydrologic Restoration (XCS-48, CS-5a/12)

Federal   LDNR   Fiscal   Engineering   Easements   Supervision & Supervision   Fiscal   Engineering   Easements   Supervision & Supervision   Fiscal   Contingency   Fiscal   Engineering   Easements   Supervision   Fiscal   Fiscal   Engineering   Easements   Supervision   Fiscal   Fiscal	Fully F	Fully Funded Costs		Total Fully Fun	Fully Funded Costs	\$6,316,806			Amortized Costs	ts	\$613,751
Year         Fiscal         Engineering         Easements           5         1.000         1997         \$0         \$0           4         1.027         1996         \$25,675         \$128,375           2         1.083         2000         \$0         \$0           2         1.083         2000         \$0         \$0           2         1.083         2000         \$0         \$0           2         1.083         2000         \$0         \$0           1         1.112         2001         \$20,001         \$0         \$0           2         1.083         2000         \$33,694         \$128,375         \$128,375           -1         1.142         2002         \$34,604         \$16,133         \$17,476         \$15,709         \$17,476         \$15,709         \$17,476         \$16,509         \$17,476         \$16,509         \$17,447         \$17,476         \$16,509         \$17,447         \$17,476         \$18,432         \$18,432         \$18,432         \$18,432         \$18,432         \$18,432         \$18,432         \$18,432         \$18,432         \$18,432         \$18,432         \$18,432         \$18,432         \$18,432         \$18,432         \$18,432         \$18,4						Federal	LDNR				
Year         Factor         Year         & Design         & Land Rights           5         1.000         1997         \$0         \$10.80           4         1.027         1998         \$25,675         \$128,375           2         1.083         2000         \$0         \$0           2         1.083         2000         \$0         \$0           2         1.083         2000         \$0         \$0           2         1.083         2000         \$0         \$0           -1         1.112         2001         \$295,686         \$128,375           -1         1.112         2001         \$295,686         \$128,375           -1         1.112         2002         \$33,694         \$15,709           -2         1.173         2003         \$34,604         \$16,130           -3         1.205         2004         \$35,698         \$17,476           -6         1.136         2006         \$36,498         \$17,476           -6         1.271         2008         \$34,606         \$18,432           -6         1.374         2008         \$34,606         \$18,439           -7         1.341         2010 <th></th> <th>Inflation</th> <th>Fiscal</th> <th>Engineering</th> <th>Easements</th> <th>Supervision &amp;</th> <th>Supervision &amp;</th> <th>Supervision</th> <th></th> <th>First Cost</th> <th>Total First</th>		Inflation	Fiscal	Engineering	Easements	Supervision &	Supervision &	Supervision		First Cost	Total First
5         1,000         1997         \$0         \$0         \$0           4         1,027         1998         \$25,675         \$128,375         \$0         \$69,876           2         1,065         1999         \$270,011         \$0         \$69,876         \$128,375         \$69,876           2         1,065         1999         \$270,011         \$0         \$69,876         \$128,375         \$14,733           1         1,112         2000         \$128,375         \$110,724         \$10,774           -1         1,112         2001         \$35,694         \$15,709         \$511,724           -2         1,173         2003         \$34,604         \$16,133         \$563           -3         1,205         2004         \$35,538         \$17,476         \$603           -4         1,236         2005         \$34,604         \$16,432         \$603           -5         1,271         2006         \$33,489         \$17,476         \$603           -6         1,305         2007         \$38,635         \$18,432         \$603           -7         1,341         2006         \$30,696         \$10,441         \$704           -9         1,414	Year	Factor	Year	& Design	& Land Rights	Administration	Administration	& Inspection	Contingency	Construction	Cost
4         1,027         1998         \$25,675         \$128,375         \$0         \$69,876           2         1,055         1999         \$270,011         \$0         \$68,115           2         1,063         2000         \$0         \$14,733           1         1,112         2001         \$128,375         \$14,733           1         1,112         2001         \$295,686         \$128,375         \$140,724           -1         1,114         2002         \$356,686         \$128,375         \$170,724           -2         1,173         2002         \$33,694         \$15,709         \$561           -2         1,173         2003         \$34,604         \$16,133         \$563           -3         1,205         2004         \$35,538         \$16,432         \$603           -4         1,236         2004         \$38,495         \$17,016         \$63           -5         1,271         2008         \$34,604         \$16,405         \$688           -6         1,305         2007         \$38,495         \$14,414         \$60           -7         1,341         2008         \$30,605         \$18,432         \$60           -1	5	1 000	1997	9	0\$	<b>9</b>	S.	0 <b>\$</b>	0\$	0 <b>\$</b>	<b>9</b>
3         1 0555         1999         \$270,011         \$0         \$69,876           2         1 083         2000         \$0         \$0         \$14,733           1         1 1112         2001         \$0         \$14,733           1         1 1112         2001         \$128,375         \$14,733           Year         Fiscal         Monitoring         O&M         Other           -1         1 1142         2002         \$33,694         \$15,709         \$571           -2         1 1173         2003         \$33,694         \$16,133         \$587           -3         1 205         2004         \$33,694         \$16,133         \$580           -4         1 236         2003         \$34,604         \$16,133         \$587           -5         1 271         2006         \$34,604         \$16,133         \$580           -6         1 205         2007         \$38,495         \$17,416         \$635           -7         1 341         2006         \$34,604         \$16,432         \$670           -8         1 377         2009         \$40,602         \$18,1441         \$706           -1         1 444         2010         \$44	4	1 027	1998	\$25.675	\$128,375	0\$	<b>%</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	\$154,050
2         1.083         2000         \$0         \$0         \$66,115           1         1.112         2001         \$0         \$14,733           1         1.112         2001         \$0         \$14,733           Year         Fiscal         Moniloring         O&M         Other           -1         1.142         2002         \$33,694         \$15,709         \$571           -2         1.173         2003         \$34,604         \$16,133         \$587           -3         1.205         2004         \$35,538         \$16,569         \$603           -4         1.238         2003         \$34,604         \$16,709         \$563           -5         1.271         2004         \$33,638         \$16,609         \$603           -7         1.205         2007         \$38,495         \$17,476         \$635           -8         1.377         2008         \$39,535         \$16,432         \$603           -1         1.344         2010         \$41,698         \$17,476         \$635           -1         1.444         2010         \$41,698         \$16,441         \$706           -1         1.444         2010         \$43,981	٠,	1.055	1999	\$270,011	0\$	\$69,876	\$27,682	<b>\$</b>	<b>\$</b>	<b>\$</b>	\$367,569
1         1.112         2001         \$0         \$14,733           Inflation         Fiscal         Monitoring         O&M         Other           -1         1.142         2002         \$35,604         \$15,709         \$571           -2         1.173         2003         \$34,604         \$16,133         \$587           -3         1.205         2004         \$35,536         \$16,133         \$587           -4         1.236         2003         \$34,604         \$16,133         \$587           -5         1.205         2004         \$35,536         \$16,569         \$603           -6         1.205         2004         \$34,604         \$16,133         \$603           -7         1.205         2004         \$35,536         \$16,569         \$603           -7         1.206         \$37,483         \$17,416         \$603           -7         1.341         2006         \$34,696         \$17,441         \$707           -10         1.442         2010         \$41,698         \$19,441         \$706           -11         1.491         2013         \$44,696         \$19,644         \$10,602         \$10,602           -12         1.532 <th>2</th> <td>1.083</td> <td>2000</td> <td><b>9</b></td> <td>\$0</td> <td>\$86,115</td> <td>\$34,116</td> <td>\$45,828</td> <td>\$721,676</td> <td>\$2,886,704</td> <td>\$3,774,439</td>	2	1.083	2000	<b>9</b>	\$0	\$86,115	\$34,116	\$45,828	\$721,676	\$2,886,704	\$3,774,439
rot AL         \$295,686         \$128,375         \$170,724           Year         Fiscal         Monitoring         O&M         Other           -1         1.142         2002         \$33,694         \$15,709         \$571           -2         1.173         2003         \$34,604         \$16,133         \$587           -3         1.205         2004         \$35,538         \$16,699         \$603           -4         1.238         2005         \$36,498         \$17,016         \$619           -5         1.271         2006         \$37,483         \$17,476         \$653           -6         1.305         2007         \$36,495         \$17,416         \$635           -7         1.341         2008         \$30,535         \$18,432         \$670           -8         1.377         2009         \$40,602         \$18,441         \$707           -10         1.452         2011         \$41,698         \$216,396         \$766           -11         1.491         2012         \$42,984         \$20,505         \$766           -12         1.532         2013         \$45,168         \$20,505         \$766           -13         1.573         2	-	1.112	2001	<b>\$</b>	<b>\$</b>	\$14,733	\$21,403	\$8,553	\$134,691	\$538,764	\$718,144
Year         Factor         Year         Costs		1	OTAL	\$295,686	\$128,375	\$170,724	\$83,201	\$54,381	\$856,367	\$3,425,468	\$5,014,202
Year         Factor         Year         Costs		Inflation	Fiscal	Monitoring	08M	Other					
-1         1.142         2002         \$33,694         \$15,709           -2         1.173         2003         \$34,604         \$16,133           -3         1.205         2004         \$35,538         \$16,569           -4         1.236         2005         \$36,498         \$17,016           -5         1.271         2006         \$37,483         \$17,948           -6         1.305         2007         \$38,495         \$17,948           -7         1.341         2008         \$39,535         \$18,930           -8         1.377         2009         \$40,602         \$18,930           -9         1.414         2010         \$41,698         \$19,441           -10         1.452         2011         \$42,824         \$19,966           -11         1.491         2012         \$43,981         \$20,505           -12         1.532         2013         \$46,388         \$21,627           -13         1.573         2014         \$46,388         \$21,627           -14         1.615         2015         \$48,926         \$22,211           -15         1.659         2016         \$50,247         \$24,059           -1	Year	Factor	Year	Costs	Costs	Costs	ı				
-2       1.173       2003       \$34,604       \$16,133         -3       1.205       2004       \$35,538       \$16,569         -4       1.238       2005       \$36,498       \$17,016         -5       1.271       2006       \$37,483       \$17,476         -6       1.305       2007       \$38,495       \$17,476         -7       1.341       2008       \$39,535       \$18,930         -8       1.377       2009       \$40,602       \$18,930         -9       1.414       2010       \$41,698       \$19,441         -10       1.452       2011       \$42,824       \$19,966         -11       1.491       2012       \$43,981       \$20,505         -12       1.532       2013       \$45,168       \$21,029         -13       1.573       2014       \$46,388       \$21,027         -14       1.615       2015       \$48,926       \$22,211         -15       1.659       2016       \$50,247       \$23,427         -17       1.750       2019       \$52,997       \$24,709         -18       1.797       2020       \$54,428       \$26,061         -20       1.89	-	1.142	2002	\$33,694	\$15,709	\$571	•				
-3       1.205       2004       \$35,538       \$16,569         -4       1.238       2005       \$36,498       \$17,016         -5       1.271       2006       \$37,483       \$17,476         -6       1.305       2007       \$38,495       \$17,476         -7       1.341       2008       \$39,635       \$18,930         -8       1.377       2009       \$40,602       \$18,930         -9       1.414       2010       \$41,698       \$19,441         -10       1.452       2011       \$42,824       \$19,966         -11       1.491       2012       \$43,981       \$20,505         -12       1.532       2013       \$45,168       \$21,059         -13       1.573       2014       \$46,388       \$21,627         -14       1.615       2015       \$48,926       \$22,211         -15       1.659       2016       \$48,926       \$22,211         -16       1.704       2017       \$50,247       \$24,059         -17       1.750       2018       \$52,997       \$24,709         -19       1.846       2020       \$54,428       \$26,061         -20       1.8	-5	1.173	2003	\$34,604	\$16,133	\$587					
-4       1.238       2005       \$36,498       \$17,016         -5       1.271       2006       \$37,483       \$17,476         -6       1.305       2007       \$38,495       \$17,476         -7       1.341       2008       \$39,535       \$18,432         -8       1.377       2009       \$40,602       \$18,930         -9       1.414       2010       \$41,698       \$19,441         -10       1.452       2011       \$42,824       \$19,966         -11       1.491       2012       \$43,981       \$20,505         -12       1.532       2013       \$45,168       \$21,059         -13       1.573       2014       \$46,388       \$21,059         -13       1.615       2016       \$48,926       \$22,211         -15       1.659       2016       \$48,926       \$22,211         -16       1.704       2017       \$50,247       \$24,059         -17       1.750       2018       \$52,997       \$24,059         -18       1.797       2021       \$54,428       \$26,061         -20       1.895       2021       \$87,428       \$26,061         -20       1.	Ġ	1.205	2004	\$35,538	\$16,569	\$603					
-5         1.271         2006         \$37,483         \$17,476           -6         1.305         2007         \$38,495         \$17,948           -7         1.341         2008         \$39,535         \$18,432           -8         1.377         2009         \$40,602         \$18,930           -9         1.414         2010         \$41,698         \$19,441           -10         1.452         2011         \$42,824         \$19,966           -11         1.491         2012         \$43,981         \$20,505           -12         1.532         2013         \$45,168         \$21,059           -13         1.573         2014         \$46,388         \$21,627           -14         1.615         2015         \$46,388         \$21,627           -15         1.659         2016         \$48,926         \$22,211           -16         1.704         2017         \$50,247         \$24,059           -17         1.750         2018         \$52,997         \$24,059           -18         1.797         2021         \$54,428         \$26,061           -20         1.895         2021         \$87,428         \$26,061           -20	4	1.238	2002	\$36,498	\$17,016	\$619					
-6         1.305         2007         \$38,495         \$17,948           -7         1.341         2008         \$39,535         \$18,432           -8         1.377         2009         \$40,602         \$18,930           -9         1.414         2010         \$41,698         \$19,441           -10         1.452         2011         \$42,824         \$19,966           -11         1.491         2012         \$43,981         \$20,505           -12         1.532         2013         \$45,168         \$21,059           -13         1.573         2014         \$46,388         \$21,627           -14         1.615         2015         \$48,926         \$22,211           -15         1.659         2016         \$48,926         \$22,211           -16         1.704         2017         \$50,247         \$24,059           -17         1.750         2018         \$52,997         \$24,059           -18         1.797         2020         \$54,428         \$26,061           -20         1.895         2021         \$85,898         \$26,061           -20         1.895         \$409,465         \$409,465         \$1		1.271	2006	\$37,483	\$17,476	\$635					
1.341       2008       \$39,535       \$18,432         1.377       2009       \$40,602       \$18,930         1.414       2010       \$41,698       \$19,441         1.452       2011       \$42,824       \$19,966         1.491       2012       \$43,981       \$20,505         1.532       2013       \$45,168       \$21,059         1.573       2014       \$46,388       \$21,627         1.615       2015       \$44,380       \$22,211         1.659       2016       \$48,926       \$22,811         1.704       2017       \$50,247       \$23,427         1.750       2018       \$51,604       \$24,059         1.895       2020       \$54,428       \$25,376         1.895       2021       \$878,26       \$1         1.895       2021       \$878,26       \$1         1.895       2021       \$878,26       \$1         1.895       \$26,061       \$409,465       \$1		1.305	2007	\$38,495	\$17,948	\$653					
1.377     2009     \$40,602     \$18,930       1.414     2010     \$41,698     \$19,441       1.452     2011     \$42,824     \$19,966       1.491     2012     \$43,981     \$20,505       1.532     2013     \$45,168     \$21,059       1.573     2014     \$46,388     \$21,627       1.615     2015     \$48,926     \$22,211       1.659     2016     \$48,926     \$22,811       1.704     2017     \$50,247     \$23,427       1.750     2018     \$51,604     \$24,709       1.846     2020     \$54,428     \$25,376       1.895     2021     \$878,250     \$409,465     \$1       Total     \$878,250     \$409,465     \$1	.7	1.341	2008	\$39,535	\$18,432	\$670					
1.414         2010         \$41,698         \$19,441           1.452         2011         \$42,824         \$19,966           1.491         2012         \$43,981         \$20,505           1.532         2013         \$45,168         \$21,059           1.573         2014         \$46,388         \$21,627           1.615         2015         \$44,640         \$22,211           1.659         2016         \$48,926         \$22,811           1.704         2017         \$50,247         \$23,427           1.750         2018         \$51,604         \$24,059           1.895         2020         \$54,428         \$25,376           1.895         2021         \$878,250         \$409,465         \$1           1.895         7018         \$878,250         \$409,465         \$1	8-	1.377	2009	\$40,602	\$18,930	\$688					
1.452       2011       \$42,824       \$19,966         1.491       2012       \$43,981       \$20,505         1.532       2013       \$45,168       \$21,059         1.573       2014       \$46,388       \$21,627         1.615       2015       \$47,640       \$22,211         1.659       2016       \$48,926       \$22,211         1.704       2017       \$50,247       \$23,427         1.750       2018       \$51,604       \$24,059         1.846       2020       \$54,428       \$25,376         1.895       2021       \$85,898       \$26,061         Total       \$878,250       \$409,465       \$1	Ġ.	1.414	2010	\$41,698	\$19,441	\$707					
1491       2012       \$43,981       \$20,505         1.532       2013       \$45,168       \$21,059         1.573       2014       \$46,386       \$21,627         1.615       2015       \$47,640       \$22,211         1.659       2016       \$48,926       \$22,811         1.704       2017       \$50,247       \$23,427         1.750       2018       \$51,604       \$24,059         1.797       2020       \$54,428       \$25,376         1.895       2021       \$55,898       \$26,061         Total       \$878,250       \$409,465       \$1	-10	1.452	2011	\$42,824	\$19,966	\$726					
1.532     2013     \$45,168     \$21,059       1.573     2014     \$46,388     \$21,627       1.615     2015     \$47,640     \$22,211       1.659     2016     \$48,926     \$22,211       1.704     2017     \$50,247     \$23,427       1.750     2018     \$51,604     \$24,059       1.797     2019     \$52,997     \$24,709       1.846     2020     \$54,428     \$25,376       1.895     2021     \$878,250     \$409,465     \$1       Total     \$878,250     \$409,465     \$1	+	1.491	2012	\$43,981	\$20,505	\$746					
1.573     2014     \$46,388     \$21,627       1.615     2015     \$47,640     \$22,211       1.659     2016     \$48,926     \$22,811       1.704     2017     \$50,247     \$23,427       1.750     2018     \$51,604     \$24,059       1.797     2019     \$52,997     \$24,709       1.846     2020     \$54,428     \$25,376       1.895     2021     \$55,898     \$26,061       Total     \$878,25     \$409,465     \$1	-12	1.532	2013	\$45,168	\$21,059	\$166					
1.615     2015     \$47,640     \$22,211       1.659     2016     \$48,926     \$22,811       1.704     2017     \$50,247     \$23,427       1.750     2018     \$51,604     \$24,059       1.797     2019     \$52,997     \$24,709       1.846     2020     \$54,428     \$25,376       1.895     2021     \$55,898     \$26,061       Total     \$878,25     \$409,465     \$1	-13	1.573	2014	\$46,388	\$21,627	\$786					
1.659     2016     \$48,926     \$22,811       1.704     2017     \$50,247     \$23,427       1.750     2018     \$51,604     \$24,059       1.797     2019     \$52,997     \$24,709       1.846     2020     \$54,428     \$25,376       1.895     2021     \$55,898     \$26,061       Total     \$878,250     \$409,465     \$14	-14	1.615	2015	\$47,640	\$22,211	\$808					
1.704     2017     \$50,247     \$23,427       1.750     2018     \$51,604     \$24,059       1.797     2019     \$52,997     \$24,709       1.846     2020     \$54,428     \$25,376       1.895     2021     \$55,898     \$26,061       Total     \$878,25     \$409,465     \$14	-15	1.659	2016	\$48,926	\$22,811	\$859					
1,750     2018     \$51,604     \$24,059       1,797     2019     \$52,997     \$24,709       1,846     2020     \$54,428     \$25,376       1,895     2021     \$55,898     \$26,061       Total     \$878,250     \$409,465     \$14	-16	1.704	2017	\$50,247	\$23,427	\$825					
1.797 2019 \$52,997 \$24,709 1.846 2020 \$54,428 \$25,376 1.895 2021 \$55,898 \$26,061 Total \$878,250 \$409,465 \$14	-17	1.750	2018	\$51,604	\$24,059	\$875					
1.846 2020 \$54,428 \$25,376 1.895 2021 \$55,898 \$26,061 Total \$878,250 \$409,465 \$14	-18	1.797	2019	\$52,997	\$24,709	668\$					
1.895 2021 \$55,898 \$26,061 Total \$878,250 \$409,465 \$1	-19	1.846	2020	\$54,428	\$25,376	\$923					
\$878,250 \$409,465	-20	1.895	2021	\$55,898	\$26,061	\$948					
			Fotal	\$878,250	\$409,465	\$14,890	ı				

Page 4

### 3/31/97

# Coastal Wellands Conservation and Restoration Plan Priority Project List VI

### Bayou Boeuf Pumping Station (XTE-32)

	;	<b>S</b>	0.0971616	\$7,402,600
	Total Project Years		Amonazation Factor	Total Fully Funded Costs
(Z7JIV) (SIESS Ad	<b>Z</b>	7.38%	•	\$5,268,100
	Project Construction Years:	Interest Rate	Total First Costs	

Average	\$509,400 \$29,500 \$26,400	\$500	nog*coce	1,678	\$337 NA	
Present Worth	\$5,243,200 \$303,500 \$271,700 \$5,100	\$5,623,500				
Annual Charges	Interest & Amortization Monitoring O & M Costs Other Costs	Total	Average Annual Habitat Units	Cost Per Habitat Unit	Average Annual Acres of Emergent Marsh	

433

Costs amortized over 20 year operation life

3/31/97

### Coastal Wellands Conservation and Restoration Plan Priority Project List VI

### Bayou Boauf Pumping Station (XTE-32)

First Costs and Annual Charges

				Federal	LDNR				
	Flecal	Engineering	Easements	Supervision &		Supervision	;	First Cost	Total First
Vear	Year	& Design	& Land Rights	Administration	Administra	s Inspection	Contingency	Construction	2007
44 Composited	L	9	2	8	2	S,	2	2	2
		£471 428	9	2	<b>\$</b>	<b>\$</b>	<b>2</b>	<b>\$</b>	\$471,428
		5	5	S	3	<b>9</b>	<b>\$</b>	<b>\$</b>	<b>S</b>
	_	3 8	\$	\$	S	9	3	<b>9</b>	<b>\$</b>
11 Compound		2 8		3 5	<b>.</b> 5	9	3	<b>S</b>	<b>%</b>
10 Compound	502	2				Ş	5	9	9
9 Compound	2002	2	3 3	2		\$	\$	<b>\$</b>	S
8 Compound	2003	2	2	<b>3</b>			3 \$	8	8 5
7 Compound		ន	<b>\$</b>	<b>3</b>		2	3 :	3	100 07
6 Compound		\$24,400	<b>\$</b>	\$8,133		2	<b>2</b>	2	199,000
		\$24,400	<b>3</b>	\$8,133	\$8,133	2	<b>S</b>	2	240,667
		\$24.400	<b>S</b>		\$8,133	<b>9</b>	<b>\$</b>	<b>\$</b>	\$40,667
			Ş			\$81,333	\$203,333	\$813,333	\$1,114,267
		3	5			\$81,333	\$203,333	\$813,333	\$1,114,267
2 Compound	••	3			•	604 222	6202 222	CA12 222	\$1 132 287
1 Compound	Z010	3	<b>3</b>	48,133	\$20,133	CCC'1 00	4202,333		
Base Year	<b>)</b> =					900 7700	4040 000	65 440 000	C3 054 228
	TOTAL	\$544,628	<b>3</b>	\$48,800	266,600	000's \$7¢	200,010	92,40,000	
	Fiscal	Monttoring	OSM	Other					
Year	Year.	Costs	Costs	Costs					
Pieces P	2011		\$26,400	\$200	ام				
	2012		\$26.400	\$500	6				
A LONGORA	101			\$500					
3 Discount	55	•							
4 Discount	2014	••		-	<b>.</b>				
5 Discount	200	••			<b>.</b>				
6 Discount	20,000	\$ \$29,492	•		•				
7 Discount	7102	7 \$29,492	\$26,400		•				
8 Discount		\$ \$29,492	\$26,400		•				
9 Discount		\$29,497	\$26,400		Ç		;	•	
10 Discount	2020	` `	\$26,400	0 \$500	8				
			\$26,400	0 \$500	2				
			2 \$26,400	0 \$500					
			2 \$26,400	005\$	2				
			•	0 \$500	8				
		•	2 \$26,400	00\$\$	2				
	2026			00 <b>\$</b>	8				
	_		•						

\$500 \$500 \$500	
	ļ
\$26,400 \$26,400 \$26,400 \$26,400	\$528 OV
29,492 29,492 29,492 29,492	89.840
2027 2028 2028 2029 \$	Total
Discount Discount	
2 th th	

# Coastal Wellands Conservation and Restoration Plan Propert List VI

### Bayou Boeuf Pumping Station (XTE-32)

Comparison   Filesa   Filesa   Filesa   Filesa   Filesa   Filesa   Constituentian   Const											
Rates         Year         Expension of Supervision & Super			i			Federal		,			
2.70e         1997         \$1         \$0 <t< th=""><th>Year</th><th>Compound</th><th>Fiscal Year</th><th>Engineering &amp; Design</th><th><b>Easements</b> 6. Land Rights</th><th>Supervision &amp; Administration</th><th></th><th>Supervision 6 Inspection</th><th>Contingency</th><th>First Cost Construction</th><th>Total First Cost</th></t<>	Year	Compound	Fiscal Year	Engineering & Design	<b>Easements</b> 6. Land Rights	Supervision & Administration		Supervision 6 Inspection	Contingency	First Cost Construction	Total First Cost
2.5.2.4         1988         \$1,186,831         \$1,086,31         \$1,186,321         \$1,186,321         \$20	=	2.708	1961	0\$	9	0\$	1	<b>0\$</b>	20	3	0\$
2.144         1999         \$0 <t< td=""><td>5</td><td>2.522</td><td>1996</td><td></td><td><b>\$</b></td><td>2</td><td></td><td><b>%</b></td><td><b>\$</b></td><td><b>3</b></td><td>\$1,188,931</td></t<>	5	2.522	1996		<b>\$</b>	2		<b>%</b>	<b>\$</b>	<b>3</b>	\$1,188,931
2.187         2000         \$0 <t< td=""><td>12</td><td>2.348</td><td>1998</td><td>2</td><td><b>\$</b></td><td><b>\$</b></td><td>••</td><td><b>9</b></td><td><b>S</b></td><td>3</td><td><b>9</b></td></t<>	12	2.348	1998	2	<b>\$</b>	<b>\$</b>	••	<b>9</b>	<b>S</b>	3	<b>9</b>
2.037         2001         \$0 <t< td=""><td>=</td><td>2.187</td><td>2000</td><td><b>3</b></td><td><b>\$</b></td><td>2</td><td></td><td><b>\$</b></td><td><u>\$</u></td><td><b>\$</b></td><td>9</td></t<>	=	2.187	2000	<b>3</b>	<b>\$</b>	2		<b>\$</b>	<u>\$</u>	<b>\$</b>	9
1.897   2002   \$0.0	9	2.037	2007	<b>3</b>	<b>\$</b>	2		<b>%</b>	<b>3</b>	2	90
1.787   2003   \$10   \$	6	1.897	2002	<b>S</b>	<b>\$</b>	<b>S</b>		<b>S</b>	2	<b>3</b>	9
1.546   2004   \$10   \$	•	1.767	2003	8	<b>3</b>	3		8	9	<b>9</b>	9
1.533   2006   \$37,385   \$40   \$11,465   \$11,465   \$10,465   \$10   \$40   \$10	7	1.646	2004	2	<b>S</b>	<b>3</b>		<b>S</b>	9	9	9
1.427   2006   \$24,826   \$0   \$11,609   \$11,609   \$10,811   \$10,811   \$10,811   \$10,811   \$10,811   \$10,811   \$10,811   \$10,812   \$10,006   \$10,811   \$10,811   \$10,811   \$10,811   \$10,811   \$10,811   \$10,812   \$10,006   \$10,811   \$10,811   \$10,812   \$10,	φ	1.533	2005	\$37,395	3	\$12.465	-,	3	<b>9</b>	<b>S</b>	\$62.32
1.326   2007   \$32,434   \$9   \$10,811   \$10,811   \$10,818   \$251,720   \$1,006,801	S.	1.427	2008	\$34,626	<b>S</b>	\$11,609		3	<b>3</b>	<b>9</b>	\$58.04
1.236         2006         \$0         \$10,069         \$100,068         \$204,1720         \$1,006,681         \$1,123           1.153         2009         \$0         \$0         \$1,237         \$10,068         \$100,088         \$251,720         \$1,006,881         \$1,123           1.074         2010         \$0         \$0         \$1,233         \$20,4431         \$307,724         \$1,123           Discount         Fiscal         Monitoring         O&M         Other         \$80,2382         \$281,732         \$21,720         \$17,721         \$1,51           Aless         Year         Costs         Costs         Costs         Costs         Costs         Costs         Costs         Costs         \$21,732         \$21	•	1.329	2007	\$32,434	8	\$10,811		3		S	\$54.05
1.153         2009         \$0         \$0         \$93.77	m	1,238	2008	9	<b>3</b>	\$10,069	_	\$100.688	\$251.720	\$1,006,881	\$1.379.42
1.074         2010         \$0         \$8,733         \$228,061         \$87,332         \$228,329         \$877,317           Discount         Flacal         Monilboring         Costs         Costs         Costs         \$62,382         \$281,792         \$704,480         \$2,817,921           Alles         Year         Costs         Costs         Costs         Costs         Costs         Costs         Costs         Costs         Costs         \$704         \$2,817,921         \$2,817,922         \$2,817,922         \$2,817,922         \$2,817,922         \$2,817,922         \$2,817,922         \$2,817,922         \$2,917,922         \$2,917,922         \$2,917,922         \$2,917,922         \$2,917,922         \$2,917,922         \$2,917,922         \$2,917,922         \$2,917,922         \$2,917,922         \$2,917,922         \$2,917,922         \$2,917,922         \$2,917,922         \$2,917,922         \$2,917	~	1.153	2009	2	G	\$9.377		\$83,772	\$234.431	\$937,724	\$1 284 GR
Total	-	1.074	2010	<b>8</b>	<b>3</b>	\$8,733	•	\$87,332	\$218,329	\$873.317	\$1.215.77
Discount         Fiscal         Monitoring         O&M           Rates         Year         Costs         Costs           0.031         2011         \$27,466         \$24,587           0.807         2012         \$25,580         \$22,889           0.806         2013         \$23,823         \$21,325           0.752         2014         \$23,823         \$19,486           0.701         2015         \$20,663         \$18,496           0.653         2016         \$19,244         \$17,226           0.608         2017         \$19,861         \$14,496           0.586         2016         \$16,691         \$14,941           0.527         2018         \$15,544         \$11,941           0.457         2020         \$14,477         \$12,657           0.457         2021         \$13,482         \$10,487           0.457         2021         \$13,482         \$10,487           0.369         2022         \$12,656         \$11,240           0.369         2023         \$10,143         \$9,078           0.344         2025         \$8,446         \$10,143           0.298         2027         \$8,797         \$7,878 </td <td></td> <td>1</td> <td>i</td> <td>\$1,293,586</td> <td>2</td> <td>\$63,064</td> <td></td> <td></td> <td>\$704,480</td> <td>\$2,817,921</td> <td>\$5,243,236</td>		1	i	\$1,293,586	2	\$63,064			\$704,480	\$2,817,921	\$5,243,236
Rales         Year         Costs         Costs           0.931         2011         \$27,466         \$24,587           0.867         2012         \$25,580         \$22,898           0.806         2013         \$25,80         \$22,898           0.752         2014         \$22,187         \$19,844           0.701         2015         \$19,244         \$17,228           0.808         2017         \$17,922         \$16,043           0.566         2018         \$16,691         \$14,941           0.507         2019         \$16,691         \$14,941           0.457         2020         \$14,477         \$12,967           0.457         2021         \$13,482         \$12,667           0.347         2022         \$14,477         \$12,967           0.348         2022         \$11,894         \$10,48           0.344         2023         \$10,143         \$9,076           0.398         2024         \$10,443         \$10,48           0.298         \$2027         \$8,797         \$7,878		Discount	Fiscal	Monitoring	0 <b>8</b> M	Other					
0.931         2011         \$27,466         \$24,587           0.867         2012         \$25,80         \$22,898           0.808         2014         \$23,823         \$21,325           0.752         2014         \$22,187         \$19,884           0.701         2015         \$20,663         \$18,486           0.653         2016         \$19,244         \$17,226           0.608         2017         \$17,822         \$16,043           0.566         2016         \$16,691         \$14,941           0.527         2019         \$16,691         \$14,941           0.457         2021         \$14,477         \$12,965           0.426         2022         \$14,477         \$12,965           0.397         2021         \$13,814         \$10,486           0.397         2022         \$12,656         \$11,24           0.344         2023         \$10,894         \$10,48           0.344         2026         \$10,43         \$9,076           0.398         2027         \$8,797         \$7,878           0.298         \$2027         \$8,797         \$7,878		Rates	Year	Costs	Costs	Costs					
0.867         2012         \$25,580         \$22,898           0.806         2013         \$23,823         \$21,325           0.752         2014         \$22,187         \$19,861           0.701         2015         \$20,663         \$18,486           0.603         2016         \$17,822         \$16,043           0.506         2018         \$16,681         \$14,941           0.507         2018         \$16,681         \$14,941           0.457         2020         \$14,477         \$12,965           0.426         2021         \$13,482         \$12,665           0.427         2021         \$13,482         \$12,665           0.397         2022         \$12,556         \$11,246           0.397         2023         \$11,894         \$10,486           0.344         2025         \$10,143         \$9,076           0.320         2026         \$10,143         \$9,076           0.398         2027         \$8,797         \$7,875	7	0.931	2011	\$27,468	\$24,587	\$468	1				
0.806         2013         \$23,823         \$21,325           0.752         2014         \$22,187         \$19,861           0.701         2015         \$20,663         \$18,496           0.853         2016         \$19,244         \$17,226           0.808         2017         \$17,822         \$16,043           0.566         2016         \$16,691         \$14,941           0.57         2019         \$15,544         \$13,816           0.457         2020         \$14,477         \$12,657           0.457         2021         \$13,482         \$12,657           0.457         2021         \$11,864         \$11,247           0.387         2022         \$12,556         \$11,247           0.397         2023         \$11,894         \$10,485           0.344         2025         \$10,143         \$9,076           0.320         2026         \$8,446         \$8,456           0.298         2027         \$8,797         \$7,87,87	?	0.887	2012	\$25,580	\$22,898	<b>25.3</b>					
0.752     2014     \$22,187     \$19,861       0.701     2015     \$20,663     \$18,496       0.853     2016     \$19,244     \$17,226       0.808     2017     \$17,822     \$16,043       0.566     2018     \$16,691     \$14,941       0.57     2019     \$15,544     \$13,815       0.457     2020     \$14,477     \$12,957       0.457     2021     \$13,482     \$12,657       0.456     2022     \$12,556     \$11,240       0.397     2023     \$11,894     \$11,240       0.344     2025     \$10,143     \$9,745       0.320     2026     \$8,446     \$8,456       0.298     2027     \$8,797     \$7,87,87	Ģ	0.806	2013	\$23,823	\$21,325	•					
0.701         2015         \$20,663         \$18,496           0.653         2016         \$19,244         \$17,226           0.608         2017         \$17,822         \$16,043           0.566         2018         \$16,691         \$14,941           0.527         2019         \$15,544         \$13,915           0.457         2020         \$14,477         \$12,657           0.457         2021         \$13,482         \$12,657           0.456         2022         \$12,556         \$11,247           0.397         2023         \$11,694         \$11,247           0.349         2023         \$11,694         \$10,488           0.344         2025         \$10,143         \$9,078           0.320         2026         \$9,446         \$8,456           0.298         2027         \$8,797         \$7,87,87	7	0.752	2014	\$22,187	\$19,861	•					
0.653         2016         \$19,244         \$17,226           0.608         2017         \$17,822         \$16,043           0.527         2018         \$16,691         \$14,941           0.527         2019         \$15,544         \$13,915           0.457         2020         \$14,477         \$12,657           0.457         2021         \$13,482         \$12,657           0.456         2022         \$12,556         \$11,240           0.397         2023         \$11,694         \$10,468           0.344         2025         \$10,143         \$9,076           0.320         2026         \$8,446         \$8,456           0.298         2027         \$8,797         \$7,87,87	δ	0.701	2015	\$20,663	\$18,496	\$350	_				
0.608         2017         \$17,922         \$16,043           0.56         2018         \$16,691         \$14,941           0.527         2019         \$15,544         \$13,914           0.457         2020         \$14,477         \$12,657           0.457         2021         \$13,482         \$12,657           0.426         2022         \$12,556         \$11,240           0.397         2023         \$11,694         \$10,468           0.368         2024         \$10,891         \$9,745           0.34         2025         \$10,143         \$9,076           0.320         2027         \$8,466         \$8,456           0.298         2027         \$8,797         \$7,87,87	ф	0.653	2016	\$19,244	\$17,226	\$326					
0.586     2018     \$16,691     \$14,941       0.527     2019     \$15,544     \$13,916       0.401     2020     \$14,477     \$12,657       0.457     2021     \$13,482     \$12,657       0.426     2022     \$12,556     \$11,246       0.397     2023     \$11,894     \$10,488       0.368     2024     \$10,891     \$9,745       0.34     2025     \$10,143     \$9,076       0.320     2027     \$8,797     \$7,877	-	0.608	2017	\$17,922	\$16,043	<b>3</b> 00					
0.527     2019     \$15,544     \$13,915       0.451     2020     \$14,477     \$12,657       0.457     2021     \$13,482     \$12,657       0.426     2022     \$12,556     \$11,246       0.397     2023     \$11,694     \$10,486       0.368     2024     \$10,891     \$9,745       0.34     2025     \$10,143     \$9,076       0.320     2026     \$8,446     \$8,456       0.298     2027     \$8,797     \$7,877	æ	0.586	2018	\$16,691	\$14,941	\$283					
0.451 2020 \$14,477 \$12,653 0.457 2021 \$13,482 \$12,063 0.426 2022 \$12,556 \$11,246 0.397 2023 \$11,694 \$10,485 0.348 2025 \$10,143 \$9,745 0.320 2026 \$9,446 \$9,455 0.298 2027 \$8,797 \$7,873	φ	0.527	2010	\$15,544	\$13,915	••					
0.457 2021 \$13,482 \$12,65. 0.426 2022 \$12,556 \$11,246 0.397 2023 \$11,894 \$10,486 0.369 2024 \$10,891 \$9,746 0.344 2025 \$10,143 \$9,076 0.320 2026 \$9,446 \$8,456 0.298 2027 \$8,797 \$7,878	우	0.491	2020	\$14,477	\$12,959	•					
0.426     2022     \$12,556     \$11,246       0.397     2023     \$11,894     \$10,466       0.369     2024     \$10,891     \$9,746       0.344     2025     \$10,143     \$9,076       0.320     2026     \$9,446     \$6,456       0.298     2027     \$8,797     \$7,878	=	0.457	2021	\$13,482	\$12,063		_			•	
0.397 2023 \$11,694 \$10,466 0.369 2024 \$10,891 \$9,745 0.344 2025 \$10,143 \$9,076 0.320 2026 \$9,446 \$8,456 0.298 2027 \$8,797 \$7,878	-12	0.426	2022	\$12,556							
0.369 2024 \$10,891 \$9,745 0.344 2025 \$10,143 \$9,076 0.320 2026 \$9,446 \$8,455 0.298 2027 \$8,797 \$7,879	-	0.397	2023								
0.344 2025 \$10,143 \$9,076 0.320 2026 \$9,446 \$8,456 0.298 2027 \$8,797 \$7,879	<u>+</u>	0.368	2024	•	\$9,749						
0.320 2026 \$9,446 \$8,455 0.298 2027 \$8,797 \$7,87!	-15	0.344	2025		\$9,079		<b>~</b>				
0.298 2027 \$8,797 \$7,879	-18	0.320	2028			,	_				
	-17	0.298	2027	\$8,797							

\$139 \$129 \$120	\$5,146	\$500
\$7,334 \$6,830 \$6,361	\$271,712	\$26,400
\$8,193 \$7,630 \$7,106	\$303,536	\$29,482
2028 2029 2030		
0.276 0.259 0.241	10/1	Average Annual
2 <del>1</del> <del>2</del>		

# Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

### Bayou Bosuf Pumping Station (XTE-32)

	Continuity   Fiecal   Engineering Easements Supervision & Supervision	Fully Fi	Fully Funded Cests		Total Fully Funded Costs	ded Costs	\$7,402,595			Amortized Costs	<u></u>	\$719,248
Fietdom   Fiet	Trigger   Trig			Ī			Federal		Cinadalan		1	
1,025   1997   50   50   50   50   50   50   50   5	1,025   1987   50   50   50   50   50   50   50   5	Year	Factor	Year	& Design	& Land Rights	Administration		& Inspection	Contingency	Construction	Cost
1,127   1986   \$464,190   \$5	1,027         1996         \$404,100         \$50         \$60 <th< td=""><td>4</td><td>1.025</td><td>1997</td><td>S</td><td>8</td><td>9</td><td><b>\$</b></td><td>2</td><td>2</td><td>3</td><td>2</td></th<>	4	1.025	1997	S	8	9	<b>\$</b>	2	2	3	2
1.055   1989   \$10   \$	1.1056 1999 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	13	1.027	1998	\$484,180	8	<b>%</b>		<b>\$</b>	<b>\$</b>	<b>\$</b>	\$484,180
1,105   2000   50   50   50   50   50   50	1,003   2000   50   50   50   50   50   50	12	1,056	1999	<b>3</b>	2	<b>\$</b>		<b>%</b>	<b>\$</b>	2	<b>3</b>
1.112 2001 80 80 80 80 80 80 80 80 80 80 80 80 80	1.112 2001 50 5 90 50 50 50 50 11.143 2002 50 5 90 50 50 50 11.143 2002 50 5 90 50 50 50 50 11.143 2002 50 5 90 50 50 50 50 11.143 2002 50 5 50,168 50 50 5 50 50 50 50 50 50 50 50 50 50 5	=	1.063	2000	<b>3</b>	3	<b>%</b>		<b>%</b>	<b>\$</b>	2	<b>\$</b>
1.143 2002 \$0 90 90 90 90 90 90 90 90 90 90 90 90 90	1.143 2002 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	9	1.112	2007	2	3	<b>\$</b>	••	2	<b>9</b>	2	3
1,173         2003         \$0 <t< td=""><td>1,173         2003         \$0         <t< td=""><td>•</td><td>1.143</td><td>2002</td><td><b>.</b></td><td>3</td><td><b>S</b></td><td></td><td>\$</td><td>S</td><td>2</td><td><b>\$</b></td></t<></td></t<>	1,173         2003         \$0 <t< td=""><td>•</td><td>1.143</td><td>2002</td><td><b>.</b></td><td>3</td><td><b>S</b></td><td></td><td>\$</td><td>S</td><td>2</td><td><b>\$</b></td></t<>	•	1.143	2002	<b>.</b>	3	<b>S</b>		\$	S	2	<b>\$</b>
1206   2004   \$10,086	1206         2004         \$0 <th< td=""><td>•</td><td>1.173</td><td>2003</td><td>3</td><td><b>&amp;</b></td><td><b>S</b></td><td></td><td>\$</td><td><b>S</b></td><td><b>.2</b></td><td><b>\$</b></td></th<>	•	1.173	2003	3	<b>&amp;</b>	<b>S</b>		\$	<b>S</b>	<b>.2</b>	<b>\$</b>
1,228         2005         \$10,186         \$10,086         \$10,086         \$10,086         \$10,086         \$10,086         \$10,086         \$10,086         \$10,086         \$10,086         \$10,086         \$10,086         \$10,086         \$10,086         \$10,086         \$10,086         \$10,086         \$10,086         \$10,087         \$10,087         \$10,083         \$10,080         \$10,080         \$10,080         \$10,080         \$10,080         \$10,080         \$10,080         \$10,080         \$10,080         \$10,080         \$11,180         \$11,190         \$10,000         \$10,000         \$10,000         \$10,000         \$10,000         \$10,000         \$10,000         \$10,000         \$10,000         \$10,000         \$10,000         \$10,000         \$10	1,228         2005         \$30,186         \$10,086         \$10,086         \$10,086         \$0         \$0         \$10,081         \$10,083         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,303         \$10,338         \$10,338         \$10,303         \$10,338         \$10,338         \$10,303	~	1.205	2004	<b>3</b>	<b>.</b>	<b>.</b>		<b>\$</b>	<b>9</b>	<b>3</b>	<b>\$</b>
1.271         2006         \$31,013         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,338         \$10,337         \$10,617         \$10	1.271         2006         \$31,013         \$0         \$10,336         \$10,336         \$0         \$0         \$0           1.305         2007         \$41,850         \$0         \$10,617         \$10,607         \$0         \$0         \$0         \$0         \$10,607         \$10,607         \$0         \$0         \$0         \$10,607 <td< td=""><td>· •</td><td>1.238</td><td>2005</td><td>\$30,198</td><td>2</td><td>\$10,066</td><td></td><td><b>\$</b></td><td><b>2</b></td><td><b>3</b></td><td>\$50,330</td></td<>	· •	1.238	2005	\$30,198	2	\$10,066		<b>\$</b>	<b>2</b>	<b>3</b>	\$50,330
1.305   2007   \$31,850   \$40   \$10,817   \$10,617   \$10,613   \$40,234   \$41,197   \$2008   \$40   \$40,803   \$41,903   \$41,903   \$41,903   \$41,903   \$41,904   \$41,197   \$2008   \$41,197   \$41,904   \$41,197   \$41,904   \$41,197   \$41,904   \$41,197   \$41,904   \$41,197   \$41,904   \$41,197   \$41,904   \$41,197   \$41,904   \$41,904   \$41,197   \$41,904   \$41,197   \$41,904   \$41,197   \$41,904   \$	1.305   2007   \$31,850   \$0   \$10,817   \$10,617   \$0   \$0   \$10,817   \$10,803   \$10,903   \$10,	·	1.271	2006	\$31,013	<b>3</b>	\$10,338		2	<b>\$</b>	<b>\$</b>	\$51,688
1.341         2008         \$0         \$10,903<	1.377         2008         \$0         \$10,903         \$10,903         \$10,903         \$272,587         \$1,196           1.377         2008         \$0         \$11,198         \$11,198         \$11,197         \$272,587         \$1,197           1.414         2010         \$0         \$0         \$11,190         \$11,190         \$277,241         \$90         \$11,190 <t< td=""><td>•</td><td>1.305</td><td>2007</td><td>\$31.850</td><td>3</td><td>\$10,817</td><td></td><td><b>3</b></td><td><b>3</b></td><td><b>\$</b></td><td>\$53,084</td></t<>	•	1.305	2007	\$31.850	3	\$10,817		<b>3</b>	<b>3</b>	<b>\$</b>	\$53,084
1.377   2006   \$0   \$10   \$11,199   \$111,1919   \$11,1919   \$111,	1.377         2098         \$0         \$11,198         \$111,198         \$111,198         \$111,197         \$270,946         \$1,190,786           1.414         2010         \$0         \$11,500         \$36,571         \$41,500         \$58,050         \$1,150,020	. 63	1.34	2008	<u> </u>	3	\$10,903		\$109,035	\$272,587	\$1,090,346	\$1,493,775
1.414   2010   \$0   \$0   \$11,500   \$18,002   \$287,505   \$1,150,020   \$287,502   \$1,150,020   \$1,150,020   \$1,150,020   \$1,150,020   \$1,150,020   \$1,150,020   \$1,150,020   \$1,150,020   \$1,150,020   \$1,150,020   \$1,150,020   \$1,150,020   \$1,150,020   \$1,150   \$1,1	Inflation         Fiscal         \$0         \$11,500         \$15,002         \$287,502         \$1,150,020         \$287,502         \$1,150,020         \$1		1.377	2008		<b>S</b>	\$11,198			\$279,946	\$1,119,786	\$1,534,106
TOTAL         \$577,241         \$0         \$64,622         \$90,073         \$336,015         \$640,036         \$3,360,152           Inflation         Fiscal         Monthoring         O&M         Other         Coats         \$726         And         \$726         And         \$726         And         \$726         \$727         \$727         \$727         \$727         \$727         \$727         \$727         \$727         \$727         \$7224         \$727         \$727	TOTAL         \$577,241         \$0         \$64,622         \$90,073         \$336,015         \$840,038         \$3,360,152           Inflation         Fiscal         Monitoring         O&M         Oilhor         \$726         \$336,015         \$840,038         \$3,360,152           1.452         2011         \$42,826         \$3336         \$727         \$727         \$727         \$727         \$726         \$727         \$727         \$727         \$727         \$727         \$727         \$727         \$727         \$727         \$727         \$727         \$727         \$727         \$727         \$727         \$727         \$727         \$727	-	1.414	2010		8	\$11,500		•	\$287,505	\$1,150,020	\$1,600,979
Inflation         Fiscal         Monitoring         O&A         Other           1.452         2011         \$42.826         538.336         \$726           1.481         2012         \$43.983         \$38.336         \$726           1.481         2012         \$43.983         \$38.371         \$746           1.532         2013         \$45,170         \$40.434         \$786           1.573         2014         \$46,380         \$41,528         \$786           1.573         2014         \$46,380         \$42,647         \$808           1.659         2016         \$48,390         \$43,799         \$808           1.704         2017         \$50,250         \$44,618         \$805           1.704         2018         \$51,607         \$46,186         \$805           1.704         2018         \$51,607         \$46,186         \$805           1.704         2018         \$51,607         \$46,186         \$805           1.704         2018         \$51,007         \$46,186         \$809           1.704         \$2021         \$50,040         \$50,20         \$44,431         \$48,724         \$50,040         \$50,20           1.895         2022	Inflation         Fiscal         Monitoring         O&M         Other           Factor         Year         Coets         Coets         Coets           1.452         2011         \$42,826         \$38,336         \$726           1.491         2012         \$43,983         \$39,371         \$746           1.573         2013         \$45,170         \$40,434         \$786           1.573         2014         \$48,390         \$41,526         \$786           1.659         2016         \$46,929         \$42,647         \$808           1.704         2017         \$46,981         \$865           1.750         2018         \$51,607         \$44,981         \$896           1.761         2017         \$46,196         \$875           1.762         2018         \$51,607         \$44,981         \$896           1.763         2018         \$51,007         \$44,981         \$896           1.764         2018         \$51,007         \$44,981         \$896           1.767         2019         \$54,431         \$48,724         \$225           1.997         2021         \$55,901         \$50,040         \$51,000           2.053         \$60	•		1 .	\$577,2	<b>S</b>	\$64,622			\$840,038	\$3,360,152	\$5,268,142
Factor         Year         Costs         Costs         Costs         Costs           1.452         2011         \$42,826         \$38,336         \$726           1.452         2012         \$43,983         \$38,336         \$786           1.532         2013         \$46,170         \$40,434         \$786           1.573         2014         \$46,390         \$41,526         \$786           1.659         2016         \$46,390         \$41,526         \$786           1.659         2016         \$46,390         \$43,799         \$830           1.704         2017         \$50,260         \$44,981         \$830           1.750         2018         \$51,607         \$44,981         \$896           1.750         2018         \$51,007         \$44,981         \$896           1.750         2018         \$51,007         \$44,481         \$896           1.750         2018         \$51,007         \$44,444         \$996           1.750         2018         \$55,000         \$47,443         \$896           1.895         2021         \$55,001         \$50,040         \$594           1.999         2022         \$55,001         \$50,040         \$59	Factor         Year         Costs         Costs         Costs         Costs           1.452         2011         \$42,826         \$726         \$726           1.491         2012         \$43,983         \$38,336         \$726           1.532         2013         \$46,170         \$746         \$746           1.573         2014         \$46,380         \$44,526         \$786           1.659         2016         \$46,390         \$44,647         \$786           1.659         2016         \$44,981         \$852           1.704         2017         \$50,250         \$44,981         \$852           1.750         2018         \$51,607         \$44,981         \$862           1.770         2018         \$51,007         \$44,981         \$862           1.787         2018         \$53,000         \$47,443         \$899           1.787         2019         \$53,000         \$47,443         \$899           1.885         2021         \$54,431         \$48,724         \$948           1.999         2022         \$54,431         \$48,724         \$1,000           2.053         2024         \$65,690         \$55,777         \$1,002		Inflation	Fiscal	Monitoring	O&M	Other					
1.452         2011         \$42,826         \$38,336         \$726           1.491         2012         \$43,983         \$136,371         \$746           1.532         2013         \$46,170         \$40,434         \$786           1.573         2014         \$46,390         \$41,526         \$786           1.615         2015         \$42,842         \$42,847         \$808           1.659         2016         \$48,829         \$44,981         \$863           1.704         2017         \$50,250         \$44,981         \$899           1.750         2018         \$53,000         \$47,443         \$899           1.787         2019         \$53,000         \$47,443         \$899           1.787         2021         \$50,040         \$948           1.885         2021         \$50,040         \$948           1.947         2022         \$57,410         \$51,391         \$973           1.947         2022         \$54,431         \$40,40         \$973           1.947         2022         \$54,431         \$40,40         \$973           1.949         2022         \$58,443         \$1,027         \$1,000           2.053         \$82,486 <td>1.452         2011         \$42,826         \$38,336         \$726           1.491         2012         \$43,983         \$39,371         \$746           1.532         2013         \$46,170         \$40,434         \$766           1.573         2014         \$46,390         \$41,528         \$786           1.659         2015         \$48,329         \$43,799         \$830           1.659         2016         \$48,829         \$43,799         \$830           1.704         2017         \$50,250         \$44,981         \$899           1.737         2018         \$51,607         \$46,196         \$899           1.787         2018         \$51,007         \$47,443         \$899           1.787         2018         \$53,00         \$47,443         \$899           1.895         2021         \$50,040         \$948         \$948           1.895         2021         \$55,01         \$50,040         \$948           1.999         2022         \$55,410         \$51,000         \$1,000           2.024         \$80,552         \$54,203         \$1,027           2.026         \$62,187         \$55,667         \$1,083           2.224         202</td> <td>Year</td> <td>Factor</td> <td>Year</td> <td></td> <td>Costs</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1.452         2011         \$42,826         \$38,336         \$726           1.491         2012         \$43,983         \$39,371         \$746           1.532         2013         \$46,170         \$40,434         \$766           1.573         2014         \$46,390         \$41,528         \$786           1.659         2015         \$48,329         \$43,799         \$830           1.659         2016         \$48,829         \$43,799         \$830           1.704         2017         \$50,250         \$44,981         \$899           1.737         2018         \$51,607         \$46,196         \$899           1.787         2018         \$51,007         \$47,443         \$899           1.787         2018         \$53,00         \$47,443         \$899           1.895         2021         \$50,040         \$948         \$948           1.895         2021         \$55,01         \$50,040         \$948           1.999         2022         \$55,410         \$51,000         \$1,000           2.024         \$80,552         \$54,203         \$1,027           2.026         \$62,187         \$55,667         \$1,083           2.224         202	Year	Factor	Year		Costs						
1.481         2012         \$43,983         \$39,371         \$746           1.532         2013         \$46,170         \$40,434         \$786           1.615         2014         \$46,390         \$41,526         \$786           1.615         2015         \$46,390         \$41,526         \$786           1.659         2016         \$48,929         \$43,799         \$830           1.704         2017         \$50,250         \$44,981         \$852           1.750         2018         \$51,607         \$44,981         \$896           1.797         2019         \$53,000         \$47,443         \$896           1.787         2020         \$54,431         \$48,724         \$323           1.895         2021         \$55,901         \$50,040         \$948           1.947         2022         \$57,410         \$51,391         \$913           1.999         2024         \$60,522         \$54,203         \$1,000           2.053         \$60,522         \$54,203         \$1,027           2.053         \$60,522         \$54,203         \$1,027           2.053         \$60,522         \$54,203         \$1,064           2.109         \$60,526	1.491         2012         \$43,983         \$39,371         \$746           1.532         2013         \$45,170         \$40,434         \$766           1.573         2014         \$48,390         \$41,526         \$786           1.615         2016         \$48,329         \$43,799         \$808           1.704         2017         \$40,929         \$44,981         \$809           1.704         2017         \$50,250         \$44,981         \$895           1.750         2018         \$51,607         \$44,481         \$896           1.774         2019         \$53,000         \$47,443         \$899           1.787         2020         \$54,431         \$48,724         \$948           1.895         2021         \$50,040         \$948           1.999         2022         \$57,401         \$51,391         \$910           1.999         2023         \$80,552         \$54,203         \$1,007           2.053         \$80,552         \$54,203         \$1,027           2.168         \$2026         \$65,667         \$1,083           2.224         2027         \$55,607         \$59,717           \$1,112	-	1.452	2011		\$38,336		1				
1.532         2013         \$45,170         \$40,434         \$786           1.573         2014         \$46,390         \$41,526         \$786           1.615         2015         \$47,642         \$42,647         \$608           1.659         2016         \$48,929         \$43,799         \$630           1.704         2017         \$50,250         \$44,981         \$852           1.750         2018         \$51,607         \$46,196         \$650           1.797         2019         \$53,000         \$47,443         \$899           1.787         2020         \$54,431         \$48,724         \$948           1.895         2021         \$50,040         \$948           1.947         2022         \$57,410         \$51,391         \$948           1.947         2022         \$57,410         \$51,391         \$100           2.053         \$58,80         \$52,778         \$1,000           2.053         \$62,187         \$55,667         \$1,054           2.109         2026         \$63,868         \$57,170         \$1,012           2.24         2027         \$65,690         \$58,714         \$1,112	1.532         2013         \$45,170         \$40,434         \$786           1.615         2014         \$46,390         \$41,526         \$786           1.615         2016         \$47,642         \$42,647         \$808           1.659         2016         \$44,929         \$43,799         \$808           1.704         2017         \$50,250         \$44,981         \$852           1.750         2018         \$51,607         \$44,981         \$895           1.797         2019         \$53,000         \$47,443         \$899           1.895         2021         \$5,001         \$47,443         \$896           1.895         2021         \$5,004         \$948           1.947         2022         \$5,4131         \$48,724         \$946           1.947         2022         \$5,41         \$50,040         \$948           1.947         2022         \$5,41         \$50,040         \$51,00           2.053         \$58,660         \$52,778         \$1,00           2.054         \$80,552         \$54,203         \$1,02           2.109         \$2026         \$83,868         \$57,170         \$1,112           2.224         2027         \$85,69	?	1.491	2012		\$39,371	•	_				
1.573       2014       \$46,390       \$41,526       \$706         1.615       2015       \$47,642       \$42,647       \$808         1.659       2016       \$46,929       \$43,799       \$830         1.704       2017       \$50,250       \$44,981       \$862         1.70       2018       \$51,607       \$46,186       \$805         1.70       2018       \$51,607       \$46,186       \$805         1.70       2018       \$51,607       \$46,186       \$806         1.70       2019       \$55,000       \$47,443       \$809         1.805       2021       \$55,001       \$50,040       \$948         1.805       2022       \$55,001       \$51,391       \$948         1.999       2022       \$51,391       \$1000         2.053       \$52,778       \$1,000         2.109       2024       \$60,552       \$54,203       \$1,027         2.109       2026       \$65,667       \$1,064         2.166       2027       \$65,690       \$59,714       \$1,012         2.224       2027       \$65,690       \$58,714       \$1,112	1.573       2014       \$46,390       \$41,526       \$786         1.615       2015       \$47,642       \$42,647       \$808         1.659       2016       \$48,929       \$43,799       \$809         1.704       2017       \$50,250       \$44,981       \$862         1.750       2018       \$51,607       \$46,196       \$875         1.787       2019       \$53,000       \$47,443       \$899         1.895       2021       \$55,001       \$50,040       \$948         1.997       2022       \$57,410       \$51,391       \$948         1.999       2023       \$55,901       \$50,040       \$948         2.053       \$58,960       \$52,778       \$1,000         2.053       \$66,552       \$54,203       \$1,000         2.053       \$62,187       \$55,003       \$1,054         2.109       2026       \$65,667       \$1,054         2.24       2027       \$65,667       \$1,054         2.24       2027       \$65,667       \$1,054         2.24       2027       \$65,607       \$59,714       \$1,112	ç	1.532	2013		\$40,434	\$186					
1.6152015\$47,642\$42,647\$8081.0692016\$48,929\$43,799\$8301.7042017\$50,250\$44,981\$8521.7502018\$51,607\$46,196\$8751.7972019\$53,000\$47,443\$8991.7972020\$54,431\$48,724\$3251.8952021\$55,901\$50,040\$9481.9942022\$57,410\$51,391\$81,0002.0532024\$80,552\$54,203\$1,0002.1092025\$62,187\$55,667\$1,0542.1682026\$63,868\$57,170\$1,0832.2242027\$65,690\$58,714\$1,112	1.615         2015         \$47,642         \$42,647         \$808           1.659         2016         \$48,929         \$43,799         \$830           1.704         2017         \$50,250         \$44,981         \$852           1.750         2018         \$51,607         \$46,186         \$875           1.787         2018         \$53,000         \$47,443         \$899           1.787         2019         \$54,001         \$48,724         \$323           1.895         2021         \$50,040         \$948           1.997         2022         \$57,410         \$51,391         \$948           2.053         \$58,80         \$52,778         \$1,000           2.053         \$58,960         \$52,778         \$1,000           2.053         \$60,552         \$54,203         \$1,054           2.109         2025         \$65,667         \$1,054           2.24         2027         \$58,717         \$1,112	7	1.573	2014		\$41,528	\$78	-				
1.6692016\$48,929\$43,799\$8301.7042017\$50,250\$44,981\$8621.7502018\$51,607\$46,196\$8751.7872019\$53,000\$47,443\$8991.7872020\$54,431\$48,724\$2251.8952021\$55,901\$50,040\$9481.9472022\$57,410\$51,391\$9482.0532024\$60,552\$54,203\$1,0002.0532024\$60,552\$54,203\$1,0272.1092025\$62,187\$55,667\$1,0542.1682026\$63,868\$57,170\$1,0832.2242027\$65,690\$58,714\$1,112	1.659         2016         \$48,929         \$43,799         \$830           1.704         2017         \$50,250         \$44,981         \$862           1.750         2018         \$51,607         \$44,981         \$855           1.787         2019         \$53,000         \$47,443         \$899           1.787         2019         \$53,000         \$47,443         \$899           1.895         2021         \$55,901         \$50,040         \$948           1.997         2022         \$57,410         \$51,391         \$948           2.053         \$58,960         \$52,776         \$1,000           2.053         \$60,552         \$54,203         \$1,000           2.109         2024         \$60,552         \$54,203         \$1,027           2.168         2026         \$65,667         \$1,064         \$1,054           2.224         2027         \$65,690         \$58,714         \$1,112	49	1.615	2015	•	••	\$80\$	_				
1.704       2017       \$50,250       \$44,981       \$852         1.750       2018       \$51,607       \$46,186       \$875         1.787       2019       \$53,000       \$47,443       \$899         1.787       2019       \$53,000       \$47,443       \$899         1.895       2021       \$55,901       \$50,040       \$948         1.895       2022       \$57,410       \$51,391       \$948         1.999       2023       \$55,801       \$50,040       \$948         2.053       2024       \$60,552       \$54,700       \$1,000         2.053       2024       \$60,552       \$54,203       \$1,007         2.109       2025       \$62,187       \$55,667       \$1,054         2.168       2026       \$63,868       \$57,170       \$1,083         2.224       2027       \$65,690       \$59,714       \$1,112	1.704       2017       \$50,250       \$44,981       \$852         1.750       2018       \$51,607       \$46,196       \$875         1.797       2019       \$53,000       \$47,443       \$899         1.685       2020       \$54,431       \$48,724       \$323         1.695       2021       \$55,901       \$50,040       \$948         1.947       2022       \$57,410       \$51,391       \$973         1.999       2023       \$56,960       \$52,776       \$1,000         2.053       \$60,552       \$54,203       \$1,000         2.109       2026       \$65,667       \$1,054         2.168       2026       \$65,690       \$58,717       \$1,083         2.224       2027       \$65,690       \$58,714       \$1,112	φ	1.659	2016	•	••	••					
1.750     2018     \$51,607     \$46,186     \$875       1.797     2019     \$53,000     \$47,443     \$899       1.895     2021     \$54,431     \$48,724     \$325       1.895     2021     \$55,901     \$50,040     \$948       1.999     2022     \$57,410     \$51,391     \$948       2.053     2024     \$58,960     \$52,778     \$1,000       2.053     2024     \$60,552     \$54,203     \$1,027       2.109     2025     \$62,787     \$55,667     \$1,054       2.168     2026     \$63,868     \$57,170     \$1,083       2.224     2027     \$65,690     \$58,714     \$1,112	1.750     2018     \$51,607     \$46,186     \$875       1.797     2019     \$53,000     \$47,443     \$899       1.646     2020     \$54,431     \$48,724     \$323       1.895     2021     \$55,801     \$50,040     \$948       1.947     2022     \$57,410     \$51,391     \$948       2.053     \$58,960     \$52,776     \$1,000       2.053     \$60,552     \$54,203     \$1,000       2.109     2025     \$65,667     \$1,054       2.168     2026     \$65,690     \$58,717     \$1,083       2.224     2027     \$65,590     \$58,714     \$1,112	-1	1.704	2017	••	••	\$827	<b>A</b> 1				
1.797         2019         \$53,000         \$47,443         \$899           1.895         2021         \$54,431         \$48,724         \$325           1.895         2021         \$55,901         \$50,040         \$948           1.947         2022         \$57,410         \$51,391         \$948           2.053         2024         \$59,860         \$52,778         \$1,000           2.053         2024         \$60,552         \$54,203         \$1,000           2.109         2025         \$62,187         \$55,667         \$1,054           2.168         2026         \$63,868         \$57,170         \$1,083           2.224         2027         \$65,690         \$58,714         \$1,112	1.797     2019     \$53,000     \$47,443     \$899       1.646     2020     \$54,431     \$48,724     \$925       1.695     2021     \$55,901     \$50,040     \$946       1.947     2022     \$55,901     \$50,040     \$946       1.999     2023     \$55,801     \$51,391     \$1,000       2.053     2024     \$60,552     \$54,203     \$1,027       2.109     2025     \$62,167     \$55,667     \$1,054       2.224     2027     \$65,590     \$58,714     \$1,112	φ	1.750	2018	•	\$46,196		16				
1.846       2020       \$54.431       \$48,724       \$325         1.895       2021       \$55,901       \$50,040       \$948         1.947       2022       \$57,410       \$51,391       \$973         1.999       2023       \$58,980       \$52,778       \$1,000         2.053       2024       \$60,552       \$54,203       \$1,027         2.109       2025       \$62,187       \$55,667       \$1,054         2.166       2026       \$63,868       \$57,170       \$1,083         2.224       2027       \$65,690       \$58,714       \$1,112	1 B46         2020         \$54,431         \$48,724         \$925           1.895         2021         \$55,901         \$948           1.947         2022         \$55,901         \$50,040         \$948           1.947         2022         \$57,410         \$51,391         \$973           1.999         2023         \$58,880         \$52,778         \$1,000           2.053         2024         \$60,552         \$54,203         \$1,027           2.109         2026         \$62,187         \$55,667         \$1,054           2.224         2027         \$65,590         \$58,714         \$1,112	<b>P</b>	1.797	2019	•••	••	•••	•				
1.895     2021     \$55,901     \$50,040       1.947     2022     \$57,410     \$51,391       1.999     2023     \$58,860     \$52,776       2.053     2024     \$60,552     \$54,203       2.109     2025     \$62,167     \$55,667       2.168     2026     \$63,868     \$57,170       2.224     2027     \$65,690     \$58,714	1.895     2021     \$55,901     \$50,040       1.947     2022     \$57,410     \$51,391       1.999     2023     \$58,860     \$52,776       2.053     2024     \$60,552     \$54,203       2.109     2025     \$62,187     \$55,661       2.168     2026     \$63,868     \$57,176       2.224     2027     \$65,590     \$58,714	9	1,R4R	2020	-			.~	•			ì
1.947     2022     \$57,410     \$51,391       1.999     2023     \$58,860     \$52,778       2.053     2024     \$60,552     \$54,203       2.109     2025     \$62,187     \$55,667       2.168     2026     \$63,888     \$57,170       2.224     2027     \$65,690     \$58,714	1.947     2022     \$57,410     \$51,391       1.999     2023     \$58,960     \$52,776       2.053     2024     \$60,552     \$54,203       2.109     2025     \$62,167     \$55,667       2.168     2026     \$63,966     \$57,176       2.224     2027     \$65,590     \$58,714	F	1.895	2021		•		•				
1.999     2023     \$58,980     \$52,778       2.053     2024     \$60,552     \$54,203       2.109     2025     \$62,187     \$55,667       2.168     2026     \$63,888     \$57,170       2.224     2027     \$85,690     \$58,714	1.999 2023 \$58,960 \$52,776 2.053 2024 \$80,552 \$54,203 2.109 2025 \$62,187 \$55,667 2.168 2026 \$63,866 \$57,176 2.224 2027 \$65,690 \$58,714	-12	1.947	2022				•				
2.053       2024       \$60,552       \$54,203         2.109       2025       \$62,167       \$55,667         2.168       2026       \$63,886       \$57,170         2.224       2027       \$85,690       \$58,714	2.053     2024     \$60,552     \$54,203       2.109     2025     \$62,187     \$55,663       2.168     2026     \$63,866     \$57,176       2.224     2027     \$65,690     \$58,714	-13	1.999	2023		••		0		•		
2.109       2025       \$62,187       \$55,667         2.168       2026       \$63,866       \$57,170         2.224       2027       \$85,690       \$58,714	2.109 2025 \$62,187 \$55,667 2.166 2026 \$63,886 \$57,170 2.224 2027 \$65,690 \$58,71	7	2.053	2024				_				
2.168         2026         \$63,868         \$57,170           2.224         2027         \$85,590         \$58,714	2.168 2026 <b>\$63,868 \$57,17</b> 0 2.224 2027 <b>\$65,690 \$58,71</b> 0	-15	2.109	2025				•				
2.224 2027 \$65,590 \$58,714	2.224 2027 \$65,590 \$58,714	-16	2.168	2026	••							
		-17	2.224	202				2				

\$1,142 \$1,173 \$1,205
\$60,289 \$61,927 \$83,589
\$69,180 \$71,048 \$1,116,281
2028 2028 2030
2.284 2.346 2.409 Tobal
5. 5.

## Bayou Boeuf Pumping Station Increment 1 (XTE-32I)

Project Construction Years:	<u>₹</u>	Total Project Years	34
Interest Rate	7.38%	Amorkization Factor	0.0971616
Total First Costs	\$577,600	Total Fully Funded Costs	\$2,961,900

Average	\$124,500 \$29,500 \$33,000 \$500	\$187,500	1,458	\$129	NA
Present	\$1,281,600 \$303,500 \$339,600 \$5,100	\$1,929,800			
Annual Charges	Interest & Amortization Monttoring O & M Costs Other Costs	Total	Average Annual Habitat Units	Cost Per Habitat Unit	Average Annual Acres of Emergent Marsh

Costs amortized over 20 year operation life

### Bayou Boeuf Pumping Station Increment 1 (XTE-32)

First Costs and Annual Charges

Total First	100	- 1	2	5471,428	S	Ş	•	2	<b>\$</b>	2	5	44.000	000.5	\$14,960	\$14.960	C2 640	060'76	\$2,640	\$20,640		\$542,228																
First Cost	Construction	5		<b>3</b>	<u></u>	Ş	\$	3 8	3	<b>.</b>	8	<b>S</b>	3	2	<b>8</b>	Ş	2	3	<b>&amp;</b>		3																
	Contingency	9	<b>.</b>		2	<b>♀</b>	9	\$	•	2	<b>&amp;</b>	<b>9</b>	5	3		<b>%</b>	S	3 6	2	\$	•																
Supervision	& Inspection	<b>9</b>	9	•		2	ŝ	\$0	Ş	7	2	<u></u>	9	<b>3</b>			<b>9</b>	5	•	S	}																
LDNR Supervision & Supervision	Commission Authmistration & Inspection	<b>8</b>	<b>&amp;</b>	S	2 6	3 8	2	<b>\$</b>	S	\$		09/'L¢	\$1,760	\$1,780	£4 760	00/10	51,760	\$19.760		\$28,560																	•
Federal Supervision &	STATE OF THE PARTY		2	2	S	3 2		2	<b>S</b>	9		0000		\$880	SRRO.		0994	<b>\$</b> 880		\$5,280		Š	Costs	SEON	\$500		0000	000	0000	2000	<b>\$</b> 200	2033	<b>6</b> 500	<b>\$</b> 500	<b>6</b> 500	<b>\$</b> 200	•
Easements & Land Riphie	3	3 6	3	<b>8</b>	8	<b>.</b>	2	≩ .	<b>\$</b>	9	S	•		S	S	\$	3	2		0 <b>\$</b>		<b>M</b> S0	Costs	\$33.000	\$33,000	433 000	000'CC+	433,000	000,000	000'000	\$33,000	いいったの	\$33.000	\$33,000	\$33,000	\$33,000	
Engineering & Design	9	\$471 42B		3	<b>\$</b>	<b>9</b>	Ş	3 \$		<b>\$</b>	\$12,320	\$12,320		\$12,320	<b>2</b>	9	\$	3		\$508,388	P. Carette and C. Caretta and C. Carette and C. Car		Costs	\$29,492	\$29,492	\$29.492	\$29.492	\$29.492	\$29.402	101'02'	784'674	\$29.402	\$29,492	\$29,492	\$29,492	\$29,492	
Fiscal	1997	1998	1000	0001	2000	2001	2002	200	3	<b>7</b> 007	2002	2008	2006	2004	2008	2008	2040			IOIAL	Flore		Year	2011	2012	2013	2014	2015	2016	2017		ZC 132	2019	2020	2021	2022	
	14 Compound	13 Compound	12 Compound			O Compound	9 Compound	8 Compound	7		c Compound	5 Compound	4 Compound	The state of the s		2 Compound	1 Compound	Rose Van	. 1	-		•	- 1	Discount	Discount	S Discount	l Discount	Discount	3 Discount	Discount	P. Servora	Nipocoti,	Discount	Discount	Discount	Discount	
Year	-	-		_	•	-							•			•						>			. •	•	•	<b>~</b> ;	•		•	, ,	,	= :	-	12	

Costs amortized over 20 year operation He

2025
2026
2027
2028
2029
2030

### Bayou Boeuf Pumping Station increment 1 (XTE-32)

Press	Present Valued Costs	2	Total Discounted Costs	ed Costs	\$1,929,893			Amortized Costs	,	\$187,511
Year	Compound r Rates	Fiscal Year	Engineering & Desion	Easements & Land Rights	Federal Supervision &		Supervision	:	First Cost	Total First
7	2.706	1997	S		TO THE STATE OF TH	AUTHURSITIES	& inspection	Confingency	Construction	Cost
<b>t</b>	3 2.522	1998	51,188,931	\$ \$		0.00	2	<b>\$</b>	<b>9</b>	<b>9</b>
12	2.349	1000		3	2	2	<b>\$</b>	<b>\$</b>		\$1,188 934
=	2.187	2000		2	03	<b>&amp;</b>	<b>\$</b>	<b>9</b>	9	9
9	2.037	2000	2	3	<b>S</b>	<b>%</b>	<b>\$</b>	<b>\$</b>	<b>S</b>	<b>3</b>
6	1.897	2002		2 5	<b>3</b>	<b>9</b>	<b>\$</b> 0	<b>9</b>	<b>\$</b>	<b>3</b>
•	1.767	3003		3		<b>S</b>	<del>\$</del>	<b>\$</b>	<b>S</b>	ន
7	1 848	2002		2	<b>S</b>	<b>\$</b>	S S	Ş	S	\$ 5
. «	1 523	F007			<b>S</b>	<b>\$</b>	S	9	\$ 5	
	3 5	2002	\$16,881	8	<b>\$</b> 1,349	\$2,697	Ş	\$	3 6	
י כו	1.42/	2006	\$17,584	2	\$1.258	\$2,512	5	2 4	2	\$22,927
4	1.329	2007	\$16,377	9	\$1 170	<b>4</b> 2 340		2 4	26	\$21,352
e	1.238	2008	05	S	841 089	62,240	3		<b>S</b>	\$19,886
~	1.153	2009	S	S	64.046	<b>4</b> 2,178		2	<b>3</b>	\$3,268
_	1.074	2010	9	3		820'7¢		<b>&amp;</b>	<b>%</b>	\$3.044
	•	Total	64 544 770	3	ChR	\$21,217	0\$	<b>2</b>	OS.	\$22 182
	•			2	\$6,823	\$32,974	0\$	0.5	0\$	\$1,281,571
	Discount	Fiscal	Monitorina	M\$O	O. Profes					•
Year	Rates	Year	Costs	Coets	5 G					
•	0.931	2011	\$27.466	\$30.733	SARR					
7	0.867	2012	\$25,580	\$28,623	\$434					
ማ	0.808	2013	\$23,823	\$26.657	<b>1000</b>					
4		2014	\$22,187	\$24.826	\$376 \$376					
τĊ	0.701	2015	\$20,683	\$23.121	6350					
					200					

200	\$33,000	\$29,492		Average Annual
071¢	300,10	£202 £20	•	Total
	£7 053	\$7,108	s S	241
\$129	\$6,538	O50'/◆	2707	
DC -	201.00	0.00	2000	259
6130	S9 188	<b>58</b>	2028	2/0
8 <b>7</b> 1.	10.0		6000	276
	40 07	28 797	2027	<b>8</b>
<b>€180</b>	\$10.570	<b>59.446</b>	20.26	926
\$172	\$11,349	<b>≯10,14</b> 3	C707	
\$165 \$	414,100		9000	277
001	412 404	S10 A91	2024	0.369
400	\$13.085	<b>28</b> . <b>23</b> . <b>25</b> .	22	)BS:
\$213	\$1 <b>4</b> ,050	\$12,30 <b>6</b>	7707	
£22\$	000,010		5656	428
CF-76	415,000	\$13 482	2021	.457
£24E	\$16 199	\$14,477	2 2 2	
\$284	\$17,383	215,54	<b>R</b> 107	,
\$62			400	527
	\$18 A78	\$16,691	<b>3</b> 5	586
<b>\$30</b>	\$20,054	\$17,922	<b>1</b>	9
<b>\$</b> 328	\$21,533	4 (3 th		
	***************************************	£40 244	2018	.653

### Delta Wide Crevasses (PMR-10)

Average	\$115,800	\$124,600	0000	00,0726	927	\$292	1,229
Present	\$1,192,000 \$303,500	\$1,282,500 \$5,100	\$2,783,100				
Amusi Charges	Interest & Amortization Monitoring O & M Costs	Other Costs	Total	Average Amual Habitat Units	Cost Per Habitat Unit	Average Annual Acres of Emergent Marsh	

### Deita Wide Crevasses (PMR-10)

### First Costs and Annual Charges

					Federal	LDNR				
		Fiscal	Engineering	Easements	Supervision &		Supervision		First Cost	Total First
Year		Year	& Decign	& Land Rights	Administration	Administra	& Inspection	Contingency	Construction	Cost
5 Com	Compound		<b>\$</b>	<b>\$</b>	<b>%</b>	<b>\$</b>	<b>့</b>	<b>3</b>	0\$	<b>%</b>
4 Con	Compound		<b>\$</b>	<u> </u>	<b>%</b>	<b>3</b>	<b>\$</b>	<b>2</b>	<b>\$</b>	<b>3</b>
3 Com	Compound	1897	\$25,000	\$20,000	<b>\$</b>	<b>\$</b>	<b>%</b>	<b>2</b>	<b>\$</b>	\$45,000
2 Com	Compound	1998	\$34,050	<b>~</b>	\$2,724	\$3,686	<b>%</b>	2	2	\$40,460
- Com	Compound Base Veer	1999	\$51,075	<b>\$</b>	87,491	\$24,138	\$68,100	\$172,804	\$691,215	\$1,014,823
	1 1	TOTAL	\$110,125	\$20,000	\$10,215	\$27,824	\$68,100	\$172,804	\$691,215	\$1,100,283
		Fiscal	Monttoring	<b>M</b> 80	Other					
Year		Year	Costs	Costs	Costa					
1 Disc	Discount	2000	\$29,492	2	\$200	•				
2 Disc	Discount	2001	\$29.492	ş	8500					
3 Discount	xount	2002	\$29,492	8	\$200					
4 Disc	Discount	2003	\$29,492	<b>\$</b>	\$500					
5 Discoun	portug	2004	\$29,482	\$835,272	\$500					
6 Disc	Discount	2005	\$29,492	<b>\$</b>	\$500					
7 Discour	Junoa	2008	\$29,492	<b>\$</b>	\$200					
8 Disc	Discount	2007	\$29,492	<b>\$</b>	\$200					
9 Disc	Discount	. 2008	\$29,492	<b>\$</b>	\$200					
to Disc	Discount	2008	\$29,492	\$835,272	\$500					
= Disc	Discount	2010	\$29,492	<b>\$</b>	\$200					
12 Disc	Discount	2011	\$29,492	<b>.</b>	\$200					
13 Disc	Discount	2012	\$29,492	<b>\$</b>	\$200					
14 Disc	Discount	2013	\$29,492	2	\$200					
15 Disc	Discount	2014	\$29,492	\$835,272	\$200	_				
16 Disc	Discount	2015	\$29,492	<b>\$</b>	\$200	_				
17 Disc	Discount	2016	\$29,492	<b>\$</b>	\$200	_				
18 Disc	Discount	2017	\$29,492	<b>₽</b>	\$200					
19 Disc	Discount	2018	\$29,492	<b>\$</b>	\$500					
20 Disc	Discount	2019	\$29,492	<b>\$</b>	\$200					
	-	Total	\$589,840	\$2,505,816	\$10,000	ــا				

Costs amortized over 20 year operation life

### Delta Wide Crevasses (PMR-10)

	Amortized Costs \$270,419	Election Control	Confinement Continuence	Cost Construction Cost		09	2		\$185,548																										
(OLYMPIC)	\$2,783,190	Federal LDNR Supervision & Supervision	Administration Administration & Inspection	0\$	0\$	0 <b>\$</b>	\$		\$30,168		Uner	Costs	2466	8434	\$404	\$376	<b>\$350</b>	6338	\$307		<b>\$</b> 263	\$264 \$2.61	9245	8778	<b>3213</b>	2010	9160	\$172	4160	5149	<b>\$1</b> 35	\$129	\$120	\$5,146	
	ed Costs		_ 1			\$24,759	<b>S</b>	8	\$24,759	1140			<b>3</b>	<b>S</b>	80	<b>્ર</b>	\$585,210	OS.	S	3	3	\$410,012	50,017	<b>\$ \$</b>	<b>3 5</b>	3 5	\$287.263	6401,203		2	Ç, 9		0\$	\$1,282,485	
	Tols: Discumed Coals	Engineering A Dasion	The state of the s	3	£20 040	886,050	807,804	240'ACG	640,0214	Montenan	Safe	407 400	427,400	920,036	323,823	\$22,187	\$20,663	\$19,244	\$17,922	\$16,891	\$15.544	\$14.477	\$13,482	\$12.558	\$11.694	\$10,891	\$10.143	S9 448	SA 797	€01.07 €01.07	\$7,630	\$7.10e	001/200	\$303,536	\$20.402
	<b>n</b>	Fiscal Year	c	) C	1997	1002	1000	1	j	FISCA	Year	2000	2002	2002	2000	2003	2004	2002	2006	2007	2008	2008	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019			
	rietuni Valuea Co <b>sis</b>	Compound Rates	1.427	1.329	1,238	1.153	1.074	Total		DISCOUNT	Rates	0.831	0.867	0.808	0.753	101.0	0.701	0.653	0.508	0.566	0.527	0.491	0.457	0.428	0.397	0.369	0.344	0.320	0.298	0.27£	0.259	0.241	Total	·	Average Annual
,	100 × 100 ×	Year	2	4	က	~	-			1	Year	Ţ	ņ	Ç	7	· ię	, d	P۱	٠ ﴿	ė,	ආ :	<b>9</b>	<del>-</del>	-12	-13	<b>4</b> -14	5	-18	-17	-18	-19	-50			₹

Costs amortized over 20 year operation Me

Costs amortized over 20 year operation life

# Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

### Delta Wide Crevasses (PMR-10)

\$531,856	Total First	ł	2		\$45,000	\$41,553	\$1,156,916																							
	First Cost	CONSTRUCTION	3	2	2	\$0 \$720,045	\$729,045																							
Amortized Costs	Confinence	S S S S S S S S S S S S S S S S S S S	3		2	\$0 \$182.261	\$182,261																						•	
			\$	•		\$71 R27	\$71,827																							
	LDNR Supervision & Supervision Administration & Inspection	9	9	\$ \$	42 788	\$25.459	\$29,245																							
\$5,473,934	Federal LDNR Supervision & Supervision Administration Administration & haraction	80	S	3	£2 708	\$7.901	\$10,699		5 S	\$542	\$558	\$571	\$587	\$603	\$619	\$635	\$653	\$670	\$688	\$707	\$726	\$746	\$766	\$786	8088	\$829	3.055	\$875	\$899	\$14.117
led Custs	Easements & Land Rights	1	9	\$20,000	80	<b>S</b>	\$20,000	7,870	2 S	<b>S</b> 0	S S	SO	80	\$1,006,517	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>%</b>	\$1,149,935	<b>%</b>	<u> </u>	<b>%</b>	8	\$1,313,788	20	9	Ş	S	<b>%</b>	\$3.470.239
Town Fuily Funded Custs	Engineering & Design		80	\$25,000	\$34,969	\$53,870	\$113,840	Moolloring	Costs	\$31,946	\$32,792	\$33 894	\$34,604	\$35,538	\$36,498	\$37,483	\$38,495	\$39,535	\$40,602	\$41,698	\$42,824	\$43,981	\$45,168	\$46,388	\$47,640	\$48,926	\$50,247	\$51,604	\$52,997	\$832,663
;	Fiscal	0	0	1997	1998		TOTAL	Flera	Year	2000	2001	2002	2003	2004	2002	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Total
Fully Funded Costs	inflation Factor			1.000	1.027		Ĭ.	nollalion	Factor	1.083	1.112	1142	1.173	1.205	1.238	1.271	1.305	1.341	1.377	1.414	1.452	1.491	1.532	1.573	1.615	1.659	1.704	1.750	1.797	ĭ
Fwly F	Year	5	~	e	8	1			Year	÷	?	न	7	က်	φ	-1	æ	φ	우	-	-15	<del>.</del>	-1	<del>.</del> 15	9	-11	·18	-18	-20	

### Coastal Wellands Conservation and Restoration Plan Priority Project List Vi

#### Delta Wide Crava

		. 53	0.0971616	\$2,029,800
City of the Crevesses (PMR-10 -1)	3	i otal Project Years	Amoritization Factor	Total Fully Funded Costs
	c	ř	50°.7	\$363,200
	' 'Cjem Consituction Years:	Interest Rate	Total First Costs	

Average	\$36,800	\$38,400	\$96,300	315	\$306
es ortization	Other Costs \$395,300	Total \$5,100	Average Amual Habitat Units	Cost Per Habitat Unit	Average Annual Acres of Emergent Marsh

2

### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

#### Delta Wide Crevasses (PMR-10 - I)

First Costs and Annual Charges

				Federal	LDNR				
	Fiscal	Engineering	<b>Easements</b>	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Year	Year	& Design	& Land Rights	Administration	Administration & Inspection	& Inspection	Contingency	Construction	Cost
5 Compound		<b>\$</b>	0 <b>\$</b>	0\$	0\$	0\$	<b>S</b>	<b>3</b>	<b>\$</b>
4 Compound		3	<u>\$</u>	<u>\$</u>	<b>\$</b>	<b>\$</b>	<b>3</b>	<b>9</b>	<b>9</b>
	1991	\$25,000	\$10,000	<b>\$</b>	<b>\$</b>	<b>9</b>	2	<b>.</b>	\$35,000
2 Compound	1998	\$9,722	<b>3</b>	\$800	\$1,053	<b>9</b>	<b>3</b>	2	\$11,575
1 Compound	1999	\$14,584	<b>2</b>	\$2,200	\$16,896	\$19,445	\$49,361	\$197,445	\$299,931
Base Year						,	• •	•	•
	TOTAL	\$49,306	\$10,000	\$3,000	\$17,949	\$19,445	\$49,381	\$197,445	\$346,506
	Fiscal	Monitoring	0 <b>8M</b>	Q					
Year	Year	Costs	Costs	Costs					
1 Discount	2000	\$20,645		\$500					
2 Discount	2001	\$20,645	80	\$500					
3 Discount	2002		<b>9</b>	\$200					
4 Discount	2003	\$20,645	<b>.</b>	\$200					
5 Discount	2004	••	\$257,445	\$500					
6 Discount	2005	\$20,645	<b>\$</b>	\$500					
7 Discount	2008	\$20,645	<b>\$</b>	\$200					
8 Discount	2007	\$20,645	3	\$200					
9 Discount	2008	\$20,645	<b>\$</b>	\$200					
10 Discount	2009	\$20,645	\$257,445	\$200					
11 Discount	2010	\$20,645	<b>3</b>	\$200					
12 Discount	2011	•	<b>\$</b>	\$200					
13 Discount	2012	\$20,645	<b>≈</b>	\$200					
14 Discount	2013	\$20,645	<b>%</b>	\$200					
15 Discount	2014	\$20,645	\$257,445	\$200					•
16 Olscount	2015	•	<b>S</b>	\$200	,				
17 Discount	2018	\$20,645	C\$	\$200			٠		
18 Discount	2017	\$20,645	<b>\$</b>	\$200	_				
19 Discount	2018	\$20,645	<b>\$</b>	\$200	_				
20 Discount	2019	\$20,645	\$	\$500	_				
	Total	\$412,900	\$772,335	\$10,000	<b>!</b> _				

### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

#### Della Wide Crevasses (PMR-10 - I)

Present Valued Costs

Amortized Costs \$96,349			Confinence	Construction Construction	9	08	50 \$0 \$43.3	20	\$212,007	\$53,002																					•					
•	LDNR	Supervision & Supervision	Administration & Inspection	<b>9</b>	<b>S</b>	S	\$1.214	S18 142	\$19.356																										•	
\$991,636	Federal	Supervision &	Administration	<b>\$</b>	2	2	\$922	\$2,362	\$3,285		Other	Costs	\$466	25.32	2407	23.76	<b>S</b> 350	300	TUE'S	\$283	786	\$20¢	6000	\$228	\$213	8614	3514 CB14	\$172	<b>\$16</b> 0	\$149	\$139	\$129	\$120	\$5,146	\$500	
led Costs	į	Easements & Land Dights	Shirt or an	2 (		\$12,380	<b>\$</b>	0\$	\$12,380		OSE	Costs	<b>⇔</b>	<b>\$</b>	9	<b>9</b>	\$180,372	<b>\$</b>	<b>2</b>	<b>2</b>	<b>S</b>	\$126.373	9	3	3	3	SAR 530	800,000	2			9 6	0.500	407'CAC*	\$38,406	•
Total Discounied Costs	Freihooring	& Design	S	3		848,000 440,000	602,114	909'CI &	\$57,818		BUILDING	COSTS	\$19,227	\$17,906	\$16.677	\$15,531	\$14,464	\$13,471	\$12,548	\$11,684	\$10,881	\$10,134	\$9,438	\$8.790	\$8,186	\$7,624	\$7,100	\$6.612	\$6 158	\$5.725	\$5.341	<b>54</b> 975	\$212 481		\$20,845	
\$	Fisce	Year	0	•	1997	1008	1000	Total	Į	Figure	V.	5	3 6	288	7007	2003	2004	2005	2006	2007	2008	2008	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019				
Present Valued Costs	Compound	Rates	1.427	1.329	1.238	1.153	1.074	1		Discount	Rates	0.931	0.867	0.80	0 753	0.704	0.0	0.633	0.000 588	0.000	0.927	0.481	0.45/	0.426	0.397	0.369	0.344	0.320	0.298	0.278	0.259	0.241	Total		Average Annual	
Prese		Year	ဂ	4	n	~	-			Τ	Year F	-	?	ů	4	, rů	, œ	, ,	- 97	q	ę	? ;	- 5	ZI-	<u>:</u>	<b>e</b> 4	ភ្	<u>9</u>	-11	<b>9</b>	-19	Ç.			₹	/14/07

4/14/97

#### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

#### Delta Wide Crevasses (PMR-10 - i)

Total First Control Faces	Factor   Flexal Engineering   Easements Supervision & Supervision & Supervision   Flexal Engineering   Easements Supervision &	Inflation   Fiscal Engineering   Factor Year & Design   50   50   50   60   1.027   1996   \$15,382   1.027   1996   \$15,382   1.027   1996   \$15,382   1.027   1996   \$15,382   1.027   1.083   2.000   \$22,383   1.112   2.001   \$22,383   1.112   2.001   \$22,383   1.1205   2.004   \$22,383   1.205   2.004   \$22,383   1.205   2.004   \$22,383   1.205   2.006   \$22,383   1.205   2.006   \$22,383   1.205   2.006   \$22,383   1.205   2.006   \$22,383   1.205   2.007   \$28,948   1.305   2.007   \$28,948   1.305   2.001   \$28,948   1.305   2.011   \$23,472   2.012   \$33,349   1.503   2.014   \$33,349   1.750   2.016   \$34,249   1.750   2.016   \$33,098   1.703   2.016   \$33,098   1.703   2.016   \$33,098   1.750   2.018   \$35,124   1.750   2.019   \$33,098   1.750   2.019   2.750   2.019   2.750	Fully Funded Costs	\$2,029,818		Amo	Amortized Costs		\$197,220
Factor   Year   Engineering   Essential Supervisor   Supervisor   Supervisor   Escotor   Year   Engineering   Essential Supervisor	Factor   Vear   Engine   Factor   Confidence   Factor   Vear   Confidence   Factor   Vear   Land Rights Administration & Ingertion Confindency Confidence   State	Infiation Fiscal Engineering Factor Year & Design			LDNR	<u> </u>		Fire Cost	Total First
1,000   190   20   20   20   20   20   20   20	1000   1987   25.000   510,000   50   50   50   50   50   50   50	1.000   1997   \$25,000   1.0			Supervision a suber Administration & Inst		nlingency	Construction	Sost
1,000   1997   \$55,000   \$10,000   \$40   \$50	1000   1997   \$25,000   \$10,000   \$40	1.000 1997 5: 1.027 1996 5: 1.027 1996 5: 1.055 1989 5: 1.055 1989 5: 1.051 2000 5: 1.142 2001 5: 1.142 2001 5: 1.205 2004 5: 1.205 2004 5: 1.271 2006 5: 1.271 2006 5: 1.377 2009 1:377 2	0		<b>\$</b>	8	ಜ	3	
1,000   1997   \$25,000   \$10,000   \$0   \$0   \$0   \$0   \$0   \$0   \$10,000	1,000   1987   \$25,000   \$10,000   \$0   \$0   \$0   \$0   \$0   \$10,000   \$10,000   \$10,000   \$10,000   \$10,000   \$10,000   \$10,000   \$11,021   \$10,000   \$10,	1,000 1997 5: 1,027 1996 5: 1,055 1999 5: 1,055 1999 5: 1,063 2000 5: 1,142 2001 5: 1,142 2001 5: 1,205 2004 5: 1,205 2004 5: 1,205 2006 5: 1,211 206 5: 1,211 206 5: 1,211 206 6: 1,211 206 6: 1,311 206 6: 1,312 2010 6: 1,414 2010 6: 1,414 2010 6: 1,573 2014 6: 1,573 2014 6: 1,701 2016		<b>3</b>	S	2	<b>\$</b>	<b>3</b>	
1,027   1998   \$16,382   \$10,000   \$1,027   \$1001   \$1002   \$10,000   \$10,	1,000   1997   452,045   510,045   510,041   510,045	1,000   1996   1,000   1996   1,000   1,000   1,000   1,000   1,000   1,100   1,200	6400	S	S	8	<b>9</b>	2	\$35,0
1057   1989   34,980   30   32,20   31,181   320,569   352,063   3208,251   31,181	1,055   1888   \$15,325   \$10,000   \$5,020   \$17,021   \$20,003   \$52,003   \$208,251   \$15,000	1.055 1999 \$ 1.055 1999 \$ 1.055 1999 \$ 1.055 1999 \$ 1.083 2000 \$ 1.142 2001 \$ 1.142 2001 \$ 1.205 2004 \$ 1.205 2004 \$ 1.205 2007 \$ 1.305 2006 \$ 1.377 2008 \$ 1.377 2008 \$ 1.444 2010 \$ 1.452 2011 \$ 1.532 2011 \$ 1.532 2014 \$ 1.532 2014 \$ 1.505 2016 \$ 1.705 2016 \$ 1.705 2016 \$ 1.705 2016 \$ 1.705 2018 \$ 1.705			41 OR1	S	S	9	\$11,8
1055   1889   1819,302   310,000   31,142   316,302   320,508   \$20,633   \$206,251     Midellon Flectal Morikoring O&M   Other Factor Year Code Costs   25,285   25,285   2004   \$22,383   \$90   \$556   2007   \$24,224   \$90   \$556   2007   \$24,224   \$90   \$567   2003   \$24,224   \$90   \$567   2003   \$24,224   \$90   \$567   2003   \$24,224   \$90   \$567   2003   \$24,224   \$90   \$693   2004   \$24,876   \$90   \$90   \$90   2004   \$24,876   \$90   \$90   \$90   2004   \$24,876   \$90   \$90   \$90   2004   \$24,876   \$90   \$90   \$90   2004   \$24,876   \$90   \$90   2004   \$24,876   \$90   \$90   \$90   2004   \$24,876   \$90   \$90   \$90   2004   \$24,876   \$90   \$90   2004   \$24,876   \$90   \$90   2004   \$24,876   \$90   \$90   \$90   2004   \$24,876   \$90   \$90   2004   \$24,876   \$90   \$90   2004   \$24,876   \$90   \$90   2004   \$24,876   \$90   \$90   2004   \$24,876   \$90   \$90   2004   \$24,876   \$90   \$90   2004   \$24,876   \$90   \$90   2004   \$24,876   \$90   \$90   2004   \$24,876   \$90   \$90   2004   \$24,876   \$90   \$90   2004   \$24,876   \$90   \$90   2004   \$24,876   \$90   \$90   2004   \$24,876   \$90   \$90   \$90   2004   \$24,876   \$90   \$90   2004   \$24,876   \$90   \$90   \$90   2004   \$24,876   \$90   \$90   \$90   \$90   2004   \$24,876   \$90   \$90   \$90   2004   \$24,876   \$90   \$90   \$90   \$90   2004   \$24,876   \$90   \$	1055   1889   \$15,362   \$206.25   \$206.25   \$206.25   \$206.25   \$15,000   \$3,142   \$16,900   \$3,142   \$16,900   \$3,142   \$16,900   \$3,142   \$16,900   \$3,142   \$16,900   \$3,142   \$16,900   \$3,142   \$16,900   \$3,142   \$16,900   \$3,142   \$16,900   \$3,142   \$16,900   \$3,142   \$16,900   \$3,142   \$16,900   \$3,140   \$16,900   \$16	1,055 1989 8 TOTAL 8 1,063 TOTAL 8 1,083 2000 \$ 1,112 2001 \$ 1,142 2001 \$ 1,1205 2004 \$ 1,236 2006 \$ 1,236 2007 \$ 1,341 2008 \$ 1,341 2010 \$ 1,444 2010 \$ 1,444 2010 \$ 1,532 2013 \$ 1,532 2014 \$ 1,532 2014 \$ 1,532 2014 \$ 1,532 2014 \$ 1,532 2016 \$ 1,703 2016 \$ 1,703 2016 \$ 1,703 2016 \$ 1,703 2016 \$ 1,703 2016 \$ 1,703 2016 \$ 1,703 2016 \$ 1,703 2016 \$ 1,703 2016 \$ 1,703 2016 \$ 1,703 2016 \$ 1,703 2016 \$ 1,703 2016 \$ 1,703 2016 \$ 1,703 2016 \$ 1,703 2016 \$ 1,703 2019 \$ 1,703 20		7700		20.00	\$52.083	\$208.251	\$316,3
Factor   F	Mallon   Faccher   Year   Costs   Co	TOTAL Figure 1 Total More Factor Year Co. 1.083 2000 5 1.142 2001 5 1.142 2001 5 1.205 2004 5 1.238 2006 1.371 2008 1.377 2008 1.377 2008 1.377 2008 1.377 2008 1.491 2010 1.414 2010 1.452 2013 1.532 2013 1.532 2014 1.532 2014 1.705 2016 1.705 2018 1.705		076,24		00000	659 083	CONB 25.1	\$363.2
Factor Year Costs Costs Costs   Factor Year Costs Costs   Factor Year Costs Costs   Factor Year Costs   Factor Year Costs	Factor Year Coets Costs Cotto Cotto Cotto Coets Coet	Factor Year   Co		\$3,142		ROC'O	con'7c*	107'9070	
Factor         Year         Cools         Costs         Co           1.083         2000         \$22,363         \$0           1.142         2001         \$22,855         \$0           1.142         2003         \$24,224         \$0           1.205         2004         \$24,878         \$0           1.205         2004         \$24,878         \$0           1.205         2004         \$24,878         \$0           1.271         2006         \$26,239         \$0           1.271         2006         \$28,948         \$0           1.341         2007         \$28,948         \$0           1.341         2008         \$28,948         \$0           1.341         2008         \$28,948         \$0           1.341         2008         \$28,948         \$0           1.341         2010         \$29,978         \$0           1.452         2011         \$29,978         \$0           1.573         2014         \$32,472         \$404,932           1.573         2014         \$32,472         \$404,932           1.659         2016         \$34,249         \$0           1.757         2018	Factor         Year         Coets         Costs         Co           1.083         2000         \$22,363         \$0           1.112         2001         \$22,855         \$0           1.142         2003         \$24,224         \$0           1.205         2004         \$24,878         \$310,225           1.205         2004         \$24,878         \$0           1.218         2005         \$25,549         \$0           1.271         2006         \$26,239         \$0           1.271         2006         \$26,294         \$0           1.305         2007         \$26,948         \$0           1.377         2008         \$22,694         \$0           \$201         \$20,787         \$0         \$0           \$201         \$20,787         \$0         \$0           \$201         \$20,787         \$0         \$0           \$201         \$20,787         \$404,932         \$0           \$201         \$33,442         \$0         \$0           \$201         \$33,472         \$404,932         \$0           \$201         \$34,249         \$0           \$201         \$37,098         \$0 <td>Factor Year Co. 1,083 2000 8 1,112 2000 8 1,1205 2001 8 1,205 2004 8 1,271 2006 1,305 2007 1,305 2007 1,305 2000 1,377 2008 1,377 2008 1,444 2010 1,444 2010 1,452 2013 1,573 2014 1,595 2015 1,705 2016 1,705 2016 1,705 2016 1,705 2016 1,705 2016 1,705 2016 1,705 2016</td> <td></td> <td>Olher</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Factor Year Co. 1,083 2000 8 1,112 2000 8 1,1205 2001 8 1,205 2004 8 1,271 2006 1,305 2007 1,305 2007 1,305 2000 1,377 2008 1,377 2008 1,444 2010 1,444 2010 1,452 2013 1,573 2014 1,595 2015 1,705 2016 1,705 2016 1,705 2016 1,705 2016 1,705 2016 1,705 2016 1,705 2016		Olher					
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1.377     2008     \$28,422     \$354,429       1.414     2010     \$29,190     \$0       1.452     2011     \$28,978     \$0       1.491     2012     \$30,787     \$0       1.532     2013     \$31,619     \$0       1.573     2014     \$32,472     \$404,932       1.615     2016     \$33,349     \$0       1.659     2016     \$34,249     \$0       1.701     2017     \$35,174     \$0       1.750     2018     \$36,124     \$0       1.777     2019     \$37,099     \$0       1.777     2019     \$37,098     \$0       1.777     \$2618     \$37,098     \$0       1.7797     \$2618     \$37,098     \$0	1.377     2008     \$28,422     \$354,429       1.414     2010     \$29,190     \$0       1.452     2011     \$28,978     \$0       1.491     2012     \$30,787     \$0       1.532     2013     \$31,619     \$0       1.573     2014     \$32,472     \$404,932       1.615     2016     \$33,349     \$0       1.765     2017     \$35,174     \$0       1.750     2018     \$35,124     \$0       1.797     2019     \$37,099     \$0       1.797     2019     \$37,099     \$0       1.797     2019     \$35,124     \$0       \$582,881     \$1,069,587	1.377 2008 1.414 2010 1.452 2011 1.481 2012 1.532 2013 1.573 2014 1.573 2014 1.785 2016 1.797 2019 1.797 2019		•					
1.414     2010     \$29,190     \$0       1.452     2011     \$29,978     \$0       1.491     2012     \$30,787     \$0       1.532     2013     \$31,619     \$0       1.573     2014     \$32,472     \$404,932       1.615     2016     \$33,349     \$0       1.659     2016     \$34,249     \$0       1.701     2017     \$35,174     \$0       1.750     2018     \$36,124     \$0       1.797     2019     \$37,099     \$0       1.797     2019     \$37,098     \$0       1.797     2019     \$36,184     \$1,089,587	1.414 2010 \$29,190 \$0 1.452 2011 \$29,978 \$0 1.491 2012 \$30,787 \$0 1.532 2013 \$31,619 \$0 1.573 2014 \$32,472 \$404,932 1.615 2016 \$34,249 \$0 1.705 2017 \$35,174 \$0 1.705 2018 \$36,124 \$0 1.797 2019 \$37,099 \$0 1.797 2019 \$37,099 \$0	1.414 2010 1.452 2011 1.491 2012 1.532 2013 1.573 2014 1.659 2016 1.795 2017 1.797 2019		••					
1.452     2011     \$28,978     \$0       1.481     2012     \$30,787     \$0       1.532     2013     \$31,619     \$0       1.573     2014     \$32,472     \$404,932       1.615     2015     \$33,349     \$0       1.659     2016     \$34,249     \$0       1.701     2017     \$35,174     \$0       1.750     2018     \$36,124     \$0       1.797     2019     \$37,099     \$0       1.797     \$562,861     \$1,069,587	1.452     2011     \$28,978     \$0       1.481     2012     \$30,787     \$0       1.532     2013     \$31,619     \$0       1.573     2014     \$32,472     \$404,932       1.615     2015     \$33,349     \$0       1.769     2017     \$34,249     \$0       1.750     2018     \$36,124     \$0       1.797     2019     \$37,099     \$0       1.797     2019     \$582,881     \$1,069,587	1.452 2011 1.481 2012 1.532 2013 1.573 2014 1.659 2016 1.705 2016 1.750 2018 1.797 2019		••					
1.532         2012         \$30,787         \$0           1.532         2013         \$31,619         \$0           1.573         2014         \$32,472         \$404,932           1.615         2016         \$33,349         \$0           1.659         2016         \$34,249         \$0           1.701         2017         \$35,174         \$0           1.750         2018         \$36,124         \$0           1.797         2019         \$37,099         \$0           1.797         \$562,881         \$1,069,587	1.532 2013 \$31,619 \$0 1.532 2013 \$31,619 \$0 1.573 2014 \$32,472 \$404,932 1.615 2015 \$33,349 \$0 1.704 2017 \$34,249 \$0 1.750 2018 \$36,124 \$0 1.750 2019 \$36,124 \$0 1.797 2019 \$37,099 \$0	1.532 2013 1.532 2013 1.573 2014 1.615 2016 1.705 2016 1.705 2016 1.797 2019							
1.532     2013     \$31,619     \$0       1.573     2014     \$32,472     \$404,932       1.615     2016     \$33,349     \$0       1.659     2016     \$34,249     \$0       1.701     2017     \$35,174     \$0       1.750     2018     \$36,124     \$0       1.797     2019     \$37,099     \$0       Total     \$562,881     \$1,069,587	1.572 2013 \$31,619 \$0 1.573 2014 \$32,472 \$404,932 1.615 2016 \$33,349 \$0 1.859 2016 \$34,249 \$0 1.701 2017 \$35,174 \$0 1.750 2018 \$36,124 \$0 1.797 2019 \$37,099 \$0	1.532 2013 1.573 2014 1.615 2015 1.859 2016 1.705 2018 1.750 2018 1.797 2018							
1.573     2014     \$32,472     \$404,932       1.615     2015     \$33,349     \$0       1.659     2016     \$34,249     \$0       1.701     2017     \$35,174     \$0       1.750     2018     \$36,124     \$0       1.787     2019     \$37,099     \$0       Total     \$562,881     \$1,069,587	1.573 2014 \$32,472 \$404,932 1.615 2015 \$33,349 \$0 1.859 2016 \$34,249 \$0 1.701 2017 \$35,174 \$0 1.750 2018 \$36,124 \$0 1.797 2019 \$37,099 \$0	1.573 2014 1.615 2015 1.859 2016 1.705 2017 1.750 2018 1.797 2019							
1.615 2015 \$33,349 \$0 1.659 2016 \$34,249 \$0 1.705 2017 \$35,174 \$0 1.750 2018 \$36,124 \$0 1.797 2019 \$37,099 \$0 Total \$562,881 \$1,089,587	1.615 2015 \$33,349 \$0 1.659 2016 \$34,249 \$0 1.703 2017 \$35,174 \$0 1.750 2019 \$36,124 \$0 1.797 2019 \$37,099 \$0 Total \$582,861 \$1,069,587	1.615 2015 1.659 2016 1.704 2017 1.750 2018 1.797 2019			_				
1.659 2016 \$34,249 \$0 1.705 2017 \$35,174 \$0 1.750 2018 \$36,124 \$0 1.797 2019 \$37,099 \$0	1.659 2016 \$34,249 \$0 1.705 2017 \$35,174 \$0 1.750 2018 \$36,124 \$0 1.797 2019 \$37,099 \$0 Total \$562,881 \$1,069,587	1.859 2016 1.704 2017 1.750 2018 1.757 2019	33,349	\$80	_				
1.704 2017 \$35,174 \$0 1.750 2018 \$36,124 \$0 1.797 2019 \$37,099 \$0 Total \$582,881 \$1,089,587	1.750 2017 \$35,174 \$0 1.750 2018 \$36,124 \$0 1.797 2019 \$37,099 \$0 Total \$582,881 \$1,089,587	1.705 2017 1.750 2018 1.797 2019	•		_				
1,750 2018 \$36,124 \$0 1,797 2019 \$37,099 \$0 Total \$562,881 \$1,069,587	1.750 2018 \$36,124 \$0 1.797 2019 \$37,099 \$0 Total \$562,881 \$1,069,587	1.750 2018 1.797 2019			~				
1.797 2019 \$37,099 \$0 Total \$582,881 \$1,069,587	1.797 2019 \$37,099 \$0 Total \$562,881 \$1,069,587	1.797 2019 Total			<b>16</b>				
Total \$582,881 \$1,069,587	Total \$562,881 \$1,069,587	Total			<b>a</b>				
					_				

#### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

### Fort Jackson /Boothville Diversion (PBA 44)

		33	0.097161602	7000	\$45,518,100
. c. cachadii /bootifiyiile Diversion (PBA-44)	Total Project Vears		Amorilization Factor	H	otal Fully Funded Costs
DOG/ HOGWARD IN A	13	, and <b>t</b>	0.30%	\$41,952,800	
	Project Construction Years:	Interest Rate		I otal First Costs	

Average	\$6,639,100 \$29,500 \$66,800	\$6,735,900	7,308	<b>\$</b> 922 6,249	
Present Worth	\$68,331,000 \$303,500 \$687,000 \$5,100	\$69,326,600			
Annual Charges	Interest & Amortization Monitoring O & M Costs Other Costs	Total Average Annual Habitat I Inits	Cost Per Habitat Unit	Average Annual Acres of Emergent Marsh	

D-25

3/14/97

### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

#### Fort Jackson /Boothville Diversion (PBA-44)

First Costs and Annual Charges

\$30,788 \$88,144 \$247,732 \$990,928 \$1,402,592 \$229,600 \$950,000 \$2,670,000 \$10,680,000 \$36,864,600	
\$88,144 \$247,732 \$950,000 \$2,670,000	
\$88,144	
009'6	
\$3	
\$45,000	\$500 \$500 \$500 \$500 \$500 \$500 \$500 \$500
\$20,200,000	O&M Costs \$66,750 \$66,750 \$66,750 \$66,750 \$66,750 \$66,750 \$66,750 \$66,750 \$66,750 \$66,750 \$66,750 \$66,750
\$1,485,000	Anonitoring  Costs  \$29,492  \$29,492  \$29,492  \$29,492  \$29,492  \$29,492  \$29,492  \$29,492  \$29,492  \$29,492  \$29,492  \$29,492
2009 TOTAL	Fiscal Year 2010 2011 2012 2013 2014 2015 2015 2016 2016 2017 2018 2018 2018 2018 2018 2018 2018 2018
Compound Base Year	Discount
D-26	Year 1 1 2 2 3 3 3 4 4 4 4 4 4 1 1 1 1 1 1 1 1 1 1 1
2004	2009 \$0 \$0 \$45,000 TOTAL \$1,485,000 \$20,200,000 \$650,000

\$500 \$500 \$500 \$500 \$500	1000
\$66,750 \$66,750 \$66,750 \$66,750 \$66,750	335 000
\$29,492 \$29,492 \$29,492 \$29,492 \$29,492	コナロ、カコワラ
2025 2026 2027 2028 2028 2029	
16 Discount 17 Discount 18 Discount 19 Discount 20 Discount	

### Coastal Westiands Conservation and Restoration Plan Priority Project List VI

#### Fort Jackson /Boothville Diversion (PBA-44)

Compound         Fiscal         Engineering         Essements         Supervision A	Present	Present Valued Costs		Total Discounted Costs	ed Costs	\$69,326,643			Amortized Costs	হ	\$6,735,888
Rates         Year         6 Design         8 Land Rights         Administration Administration         A lisped color         Construction           2.522         1984         1984         3170.287         40         50		puroomo,	Fiscal	Fooineering	Easements	Federal Supervision &	LDNR Supervision &	Supervision		First Cost	Total First
2 52 2 1 1997         \$178.297         \$178.297         \$10 97         \$178.297         \$10 97         \$178.297         \$10 90		Rates	Year	& Design	& Land Rights	Administration	Administration	& Inspection	Contingency	Construction	Cost
2.349         1988         \$241189         \$11,746         \$13,859         \$60         \$10	13	2.522	1997	\$378,297	0\$	<b>\$</b>	<b>%</b>	<u>\$</u>	<b>%</b>	<b>9</b>	\$378,297
2.167         1998         \$2,695,502         \$13,923,526         \$131,246         \$43,129         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$12,231         \$40,167         \$0	12	2.349	1998	\$241,199	\$11,236,949	\$11,744	\$3,859	<b>S</b>	<b>\$</b>	<b>S</b>	\$11,493,751
2.037         2000         \$0         \$12,995,135         \$12,2331         \$40,167         \$0         \$0         \$12,995,135         \$12,2331         \$40,167         \$0         \$0         \$10,1386         \$13,2408         \$14,236         \$10,289,136         \$10,289,136         \$10,289,136         \$10,289,136         \$10,289,136         \$10,289,136         \$10,200,136	: =	2.187	1999	\$2,695,592	\$13,953,526	\$131,246	\$43,129	<b>\$</b>	<b>\$</b>	<b>0\$</b>	\$16,823,493
187   2001   \$0   \$5,042,738   \$113,836   \$174,326   \$208,885   \$835,550   \$176   \$2002   \$20	<b>£</b>	2.037	2000		\$12,995,135	\$122,231	\$40,167	<b>%</b>	<b>\$</b>	<b>\$</b>	\$13,157,533
1.167   20002   \$0   \$100,017   \$34,839   \$207,663   \$583,642   \$2,334,566   \$153,246   \$193,400   \$543,554   \$2,334,566   \$153,246   \$193,400   \$543,554   \$193,140   \$1,1218   \$2,124,182   \$193,140   \$1,1218   \$1,174,218		1.897	2001	<b>%</b>	\$5,042,738	\$113,836	\$37,408	\$74,326	\$208,895	\$835,580	\$6,312,783
1.646   20003   \$0   \$90   \$90   \$90   \$30   \$132,446   \$193,400   \$143,554   \$2,174,218   \$1437   \$2004   \$10	∞	1.767	2002	<b>3</b>	<b>%</b>	\$106,017	\$34,839	\$207,663	\$583,642	-	\$3,266,727
1.53   2004   \$10   \$1	^	1 646	2003	8	<b>S</b>	\$98,736	\$32,446	\$193,400	\$543,554	\$2,174,218	\$3,042,353
1,427   2005   \$0   \$0   \$66,638   \$28,142   \$167,745   \$471,451   \$1,865,804   \$1,329   \$2006   \$10   \$2006   \$10   \$10   \$176,6279   \$166,223   \$430,070   \$17,65,279   \$17,65,29   \$17,65,29   \$17,65,29   \$17,65,29   \$17,65,29   \$17,65,29   \$17,65,29   \$17,65,29   \$17,65,29   \$17,65,29   \$17,69	ي .	1.533	2004	3	<b>%</b>	\$91,954	\$30,217	\$180,116	\$506,221	\$2,024,882	\$2,833,390
1.329   2006   \$0   \$10   \$1756   \$26,209   \$156,223   \$439,070   \$1,756,279   \$1,329   \$2007   \$2008   \$40   \$40   \$404   \$156,430   \$408,912   \$1,355.60   \$1,055.650   \$1,054,009   \$1,054,009   \$1,054,009   \$1,054,009   \$1,054,009   \$1,054,009   \$1,055,000   \$1	, v	1 427	2005	9	0\$	\$85,638	\$28,142	\$167,745	\$471,451	\$1,885,804	\$2,638,780
1.238   2007   \$10   \$10   \$10   \$142.78   \$146,409   \$146,403   \$408,912   \$1,635,650   \$1,153   \$2008   \$10   \$10   \$10   \$10   \$10   \$10   \$10   \$10   \$10   \$10   \$10   \$10   \$10   \$10.74   \$1,032   \$135,500   \$1360,306   \$15,23,306	4	1 329	2006	9	. <b>S</b>	\$79,756	\$26,209	\$156,223	\$439,070	\$1,756,279	\$2,457,537
1.153   2008   \$0   \$0   \$69,176   \$22,732   \$135,500   \$153,006   \$1,523,306   \$1,074   2009   \$1,000   \$1,0	• •	1 238	2002	90	S	\$74,278	\$24,409	\$145,493	\$408,912	\$1,635,650	\$2,288,742
1.074   2009   \$0   \$49,319   \$33,058   \$94,645   \$266,002   \$1,064,009     Total	,	1.153	2008	9	<b>S</b> 0	\$69,176	\$22,732	\$135,500	\$380,826	\$1,523,306	\$2,131,541
Total   \$3,315,088 \$43,228,347 \$1,032,932 \$356,617 \$1,355,110 \$3,808,573 \$15,234,294     Discount Fiscal Monitoring O&M Other Rates		1.074	2009	<b>S</b>	<b>9</b>	\$48,319	\$33,058	\$94,645	\$266,002	\$1,064,009	\$1,506,033
Discount         Fiscal         Monitoring         O&M           Rates         Year         Costs         Costs           0.931         2010         \$27,466         \$62,165           0.867         2011         \$25,580         \$57,896           0.808         2012         \$23,823         \$53,919           0.752         2013         \$22,187         \$50,216           0.701         2014         \$20,663         \$46,767           0.608         2015         \$19,244         \$43,554           0.608         2016         \$17,922         \$40,563           0.527         2018         \$15,544         \$33,777           0.527         2018         \$15,544         \$33,766           0.491         2019         \$14,477         \$32,766           0.457         2020         \$13,482         \$26,461           0.397         2022         \$11,694         \$26,464           0.369         2023         \$10,891         \$22,966           0.320         2024         \$10,143         \$22,966           0.320         \$9,446         \$21,380		1	1	\$3,315,088	\$43,228,347	\$1,032,932	\$356,617	\$1,355,110	\$3,808,573	\$15,234,294	\$68,330,961
Rates         Year         Costs         Costs           0.931         2010         \$27,466         \$62,165           0.867         2011         \$25,580         \$57,896           0.808         2012         \$23,823         \$53,919           0.752         2013         \$22,187         \$50,216           0.753         2014         \$20,663         \$46,767           0.653         2015         \$119,244         \$46,767           0.608         2016         \$17,922         \$40,563           0.566         2017         \$16,691         \$37,777           0.567         2018         \$15,544         \$35,182           0.491         2019         \$14,477         \$32,766           0.426         2020         \$13,482         \$26,461           0.397         2022         \$11,694         \$24,646           0.369         2023         \$10,143         \$22,956           0.344         2024         \$10,143         \$21,386           0.320         \$9,446         \$21,386	۵	)iscount	Fiscal	Monitoring	08M	Other					
0.931         2010         \$27,466         \$62,165           0.867         2011         \$25,580         \$57,896           0.808         2012         \$23,823         \$53,919           0.752         2013         \$22,187         \$50,216           0.701         2014         \$20,663         \$46,767           0.653         2015         \$19,244         \$43,554           0.608         2016         \$17,922         \$40,563           0.566         2017         \$16,691         \$37,777           0.567         2018         \$15,544         \$35,182           0.491         2019         \$14,477         \$32,766           0.457         2020         \$13,482         \$30,516           0.367         2021         \$11,694         \$26,467           0.369         2022         \$11,694         \$22,646           0.369         2023         \$10,143         \$22,966           0.320         \$2046         \$54,466         \$21,386           0.320         \$2046         \$21,386         \$21,386		Rates	Year	Costs	Costs	Costs	1				
0.867         2011         \$25,580         \$57,896           0.808         2012         \$23,823         \$53,919           0.752         2013         \$22,187         \$59,19           0.701         2014         \$20,663         \$46,767           0.653         2015         \$19,244         \$43,554           0.608         2016         \$17,922         \$40,563           0.566         2017         \$16,691         \$37,777           0.567         2018         \$15,544         \$37,776           0.457         2020         \$14,477         \$32,766           0.426         2021         \$13,482         \$30,516           0.369         2022         \$11,694         \$26,467           0.369         2023         \$10,143         \$22,956           0.320         2025         \$9,446         \$21,386           0.320         2025         \$9,446         \$21,386	-	0.931	2010	\$27,466	\$62,165	\$466	i				
0.808         2012         \$23,823         \$53,919           0.752         2013         \$22,187         \$50,216           0.701         2014         \$20,663         \$46,767           0.653         2015         \$19,244         \$43,554           0.608         2016         \$17,922         \$40,563           0.566         2017         \$16,691         \$37,777           0.51         2018         \$15,544         \$37,177           0.457         2019         \$14,477         \$32,766           0.426         2021         \$13,482         \$30,516           0.369         2022         \$11,694         \$26,467           0.369         2023         \$10,891         \$22,966           0.344         2024         \$10,143         \$22,966           0.320         2025         \$9,446         \$21,386	-5	0.867	2011	\$25,580	\$57,896	\$434					
0.752       2013       \$22,187       \$50,216         0.701       2014       \$20,663       \$46,767         0.653       2015       \$19,244       \$43,554         0.608       2016       \$17,922       \$40,563         0.566       2017       \$16,691       \$37,77         0.527       2018       \$15,544       \$35,182         0.491       2019       \$14,477       \$32,766         0.457       2020       \$13,482       \$30,516         0.397       2022       \$11,694       \$26,467         0.369       2023       \$10,143       \$22,956         0.344       2024       \$10,143       \$22,956         0.320       2025       \$9,446       \$21,386	ų	0.808	2012	\$23,823	\$53,919	\$404					
0.701     2014     \$20,663     \$46,767       0.653     2015     \$19,244     \$43,554       0.608     2016     \$17,922     \$40,563       0.566     2017     \$16,691     \$37,777       0.527     2018     \$15,544     \$35,182       0.491     2019     \$14,477     \$32,766       0.457     2020     \$13,482     \$30,515       0.397     2021     \$12,556     \$28,416       0.369     2023     \$10,891     \$24,645       0.344     2024     \$10,143     \$22,956       0.320     2025     \$9,446     \$21,386	4	0.752	2013	\$22,187	\$50,216	\$376					
0.653       2015       \$19,244       \$43,554         0.608       2016       \$17,922       \$40,563         0.566       2017       \$16,691       \$37,777         0.527       2018       \$15,544       \$35,182         0.491       2019       \$14,477       \$32,766         0.457       2020       \$13,482       \$30,515         0.397       2021       \$12,556       \$28,416         0.397       2022       \$11,694       \$26,467         0.369       2023       \$10,143       \$22,956         0.344       2024       \$10,143       \$21,386         0.320       2025       \$5,446       \$21,386	ςĊ	0.701	2014	\$20,663	\$46,767	\$320					
0.608         2016         \$17,922         \$40,563           0.566         2017         \$16,691         \$37,777           0.527         2018         \$15,544         \$35,182           0.491         2019         \$14,477         \$32,766           0.457         2020         \$13,482         \$30,515           0.397         2021         \$12,556         \$28,416           0.397         2022         \$11,694         \$26,467           0.369         2023         \$10,891         \$24,649           0.344         2024         \$10,143         \$22,956           0.320         2025         \$9,446         \$21,386	9	0.653	2015	\$19,244	\$43,554	\$326					
0.566       2017       \$16,691       \$37,777         0.527       2018       \$15,544       \$35,182         0.491       2019       \$14,477       \$32,766         0.457       2020       \$13,482       \$30,516         0.426       2021       \$12,556       \$28,416         0.397       2022       \$11,694       \$26,467         0.369       2023       \$10,143       \$24,646         0.344       2024       \$10,143       \$22,956         0.320       2025       \$9,446       \$21,386	7-	0.608	2016	\$17,922	\$40,563	\$304					
0.527       2018       \$15,544       \$35,182         0.491       2019       \$14,477       \$32,766         0.457       2020       \$13,482       \$30,515         0.426       2021       \$12,556       \$28,416         0.397       2022       \$11,694       \$26,467         0.369       2023       \$10,891       \$24,646         0.34       2024       \$10,143       \$22,956         0.320       2025       \$9,446       \$21,380	æ	0.566	2017	\$16,691	\$37,777	\$283					
0.491 2019 \$14,477 \$32,766 0.457 2020 \$13,482 \$30,515 0.426 2021 \$12,556 \$28,415 0.397 2022 \$11,694 \$26,465 0.369 2023 \$10,891 \$22,956 0.320 2025 \$9,446 \$21,380	6-	0.527	2018	\$15,544	\$35,182	\$264					
0.457     2020     \$13,482     \$30,515       0.426     2021     \$12,556     \$28,416       0.397     2022     \$11,694     \$26,467       0.369     2023     \$10,891     \$24,646       0.344     2024     \$10,143     \$22,956       0.320     2025     \$9,446     \$21,380	-10	0.491	2019	\$14,477	\$32,766	\$245					
0.426     2021     \$12,556     \$28,419       0.397     2022     \$11,694     \$26,467       0.369     2023     \$10,891     \$24,649       0.344     2024     \$10,143     \$22,956       0.320     2025     \$9,446     \$21,380	÷	0.457	2020	\$13,482	\$30,515	\$229					
0.397 2022 \$11,694 \$26,467 0.369 2023 \$10,891 \$24,649 0.344 2024 \$10,143 \$22,956 0.320 2025 \$9,446 \$21,380	-12	0.426	2021	\$12,556	\$28,419	\$213					
0.369 2023 \$10,891 \$24,646 0.344 2024 \$10,143 \$22,956 0.320 2025 \$9,446 \$21,386	-13	0.397	2022	\$11,694	\$26,467	\$198					
0.344 2024 \$10,143 \$22,956 0.320 2025 \$9,446 \$21,380	-14	0.369	2023	\$10,891	\$24,649	\$185					
0.320 2025 \$9,446 \$21,380	-15	0.344	2024	\$10,143	\$22,956	\$172					
	-16	0.320	2025	\$9,446	\$21,380	\$160					
	6,4				ر	peripome also,	over 20 year	peration life			

\$149 \$139 \$129 \$120 \$5,146	\$500
\$19,911 \$18,544 \$17,270 \$16,084 \$687,000	\$66,750
2026 \$8,797 2027 \$8,193 2028 \$7,630 2029 \$7,106 \$303,536	\$29,492
-18 0.298 -18 0.278 -19 0.259 -20 0.241 	Average Annual

3/14/97

### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

#### Fort Jackson /Boothville Diversion (PBA-44)

Easements Supervision & Land Rights Administration
<b>9</b>
\$4,913,384
\$6,728,061
\$6,909,718
\$2,955,344
<b>9</b>
<b>9</b>
<b>0\$</b>
<b>9</b>
\$0
<b>0</b> \$
<b>9</b>
<b>S</b>
\$21,506,508
O&M Other
Costs Costs
\$94,377
\$96,925
\$99,542
\$102,230
\$104,990
\$107,825
\$110,736
\$113,726
\$116,797
\$119,950
\$123,189
\$126,515
\$129,931
\$133,439
\$137,042
\$140 742

\$1,083 \$1,112 \$1,142 \$1,173	
\$144,542 \$148,445 \$152,453 \$156,569	C2 450 00E
\$63,863 \$65,587 \$67,358 \$69,176	S1 086 881
2026 2027 2028 2028	lotal
-17 -18 -19 -20	

## Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

# Marsh Island Hydrologic Restoration and Marsh Creation Increment 3 (TV-5/7 (i3))

22	0.0971616	\$4,094,900
Total Project Years	Amoritization Factor	Total Fully Funded Costs
2	7.38%	\$3,281,100
Project Construction Years:	Interest Rate	Total First Costs

	Present	Average
Annual Charges	Worth	Annual
Interest & Amortization	\$3,442,700	\$334,500
	\$242,800	\$23,600
	\$55,500	\$5,400
	\$5,100	\$500
	\$3,746,100	\$364,000
Average Annual Habitat Units		452
Cost Per Habitat Unit		\$805
Average Annual Acres of Emergent Marsh		233

Costs amortized over 20 year operation life

#### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

# Marsh Island Hydrologic Restoration and Marsh Creation Increment 3 (TV-5/7 (i3))

First Costs and Annual Charges

Total First	Cost	6	0.0	0\$	0 <b>\$</b>	\$114,000	010'000'0	€2 107 040	93,187,610					•																			
First Cost	Construction	9		9 6	0.00	\$1.903.000		\$1903.000																									
	Contingency	0 <b>\$</b>	\$0	9	<b>9</b>	\$475,750		\$475,750																									
Supervision	& Inspection	0 <b>\$</b>	<b>%</b>	20	O\$	\$238,000		\$238,000																									
LDNR Supervision & Supervision	Administration & Inspection Contingency		<b>9</b>	<b>%</b>	0 <b>\$</b>	\$52,060		\$52,060																									
Federal Supervision & Administration			2	0\$	<b>9</b>	\$190,000		\$190,000		Olher	Costs	\$500	\$500	\$500	6500	0000	000	\$200 \$200	\$200	\$200	\$200	\$200	\$200	\$500	\$500	\$500	\$500	<b>6</b> 500	0000	0004	100¢	\$500 \$500	\$10,000
Easements & Land Rights	0\$	5	•	0.000	000°9/ <b>♦</b>	<b>%</b>	676 000	000,076	***	5 0	COSIS	0 <b>\$</b>	<b>9</b>	<b>S</b>	0\$	Ş	\$ 5	9 6	9	9	0.00	\$113,000	0\$	<b>0</b>	<b>%</b>	<b>%</b>	\$0	<b>S</b>	•	<b>9</b>	9 6	2 S	\$113,000
Engineering & Design	0\$	<b>S</b>	<b>S</b>	000 ac	000,000	000'czz*	\$263,000	000,002	Monitoring	a a a a a	505 705	\$23,5383	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	<b>423 E03</b>	\$23,393 \$12,503	\$23,093	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	\$23 503	\$23,593	\$471,860
Fiscal Year				1997	1001	0661	TOTAL	<b>!</b>	Fiscal	Year	4000	6661	2000	2001	2002	2003	2004	2005	2006	2007	2008	2002	2040	2010	2012	7107	2013	2014	2015	2016	2017		tal
. 1			3 Compound	2 Compound	1 Compound	Base Year				Year	1 Discount	~	3 Discount	Discoulit		5 Discount	6 Discount	7 Discount	8 Discount	9 Discount	10 Discount	11 Discount	12 Discount	13 Discount				10 Discount	_	18 Discount	19 Discount	20 Discount	Total
										D	-3	3																					

3/14/97

## Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

Marsh Island Hydrologic Restoration and Marsh Creation Increment 3 (TV-5/7 (i3))

rese	Present Valued Costs		I otal Discounce costs	cicoo na						
					Federal	LDNR			i	1 1 1 1 1 1
, , ,	Compound	Fiscal	Engineering & Desion	Easements & Land Rights	Supervision & Administration	Supervision & Supervision & Supervision Administration Administration & Inspection	Supervision & Inspection	Contingency	First Cost Construction	Cost
5		0	80	\$0	0\$	0\$	0\$	0\$	<b>\$</b>	0\$
4	1 329	0	<b>S</b>	0\$	<b>S</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
. 63	1.238	0	<b>\$</b>	<b>\$</b>	<b>%</b>	<b>0\$</b>	<b>\$</b> 0	<b>9</b>	<b>9</b>	<b>9</b>
~	1.153	1997	\$43,812	\$87,623	<u>\$</u>	<b>\$</b>	<b>9</b>	<b>9</b>	<b>0\$</b>	\$131,435
-	1.074	1998	\$241,594	<b>9</b>	\$204,013	\$55,899	\$255,553	\$510,837	\$2,043,346	\$3,311,241
	i	Total	\$285,405	\$87,623	\$204,013	\$55,899	\$255,553	\$510,837	\$2,043,346	\$3,442,676
	Discount	Fiscal	Monitoring	08M	Olher					
Year		Year	Costs	Costs	Costs					
7	0.931	1999	\$21,973	0\$	\$466					
-2	0.867	2000	\$20,463	<b>\$</b>	\$434					
ę.	0.808	2001	\$19,058	<b>\$</b>	\$404					
4	0.752	2002	\$17,749	<b>\$</b>	\$376					
ċ		2003	\$16,530	<b>\$</b> 0	\$320					
9-	0.653	2004	\$15,394	<b>9</b>	\$326					
-1	0.608	2005	\$14,337	<b>0\$</b>	\$304					
8	0.566	2006	\$13,352	<b>%</b>	\$283					
6	0.527	2007	\$12,435	<b>9</b>	\$264					
-10		2008	\$11,581	\$55,469	\$245					
<u>-</u>	0.457	2009	\$10,786	<b>0\$</b>	\$228					
-12	0.426	2010	\$10,045	<b>\$</b> 0	\$213					
-13		2011	\$9,355	0\$	\$198					
-14	0.369	2012	\$8,712	\$0	\$185					
-15	0.344	2013	\$8,114	<b>\$</b> 0	\$172					
-16	0.320	2014	\$7,557	0\$	\$160					
-17		2015	\$7,038	\$0	\$149					
-18		2016	\$6,554	\$0	\$139					
-19		2017	\$6,104	0\$	\$129					
-20		2018	\$5,685	<b>9</b>	\$120	,				
		Total	\$242,822	\$55,469	\$5,146	I				
	Prior A operation	Į.	£23 593	\$5 389	\$500					
		3	1	•	•					

#### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

# Marsh Island Hydrologic Restoration and Marsh Creation Increment 3 (TV-5/7 (i3

Fully	Fully Funded Costs	Ų	: :			on maish Creation Increment 3 (TV-5/7 (i3))	Increment 3	(17V-5/7 (13))		
•		•	fotal Fully Fur	lal Fully Funded Costs	\$4,094,898			Amortized Costs	s)	\$397.867
Year	Inflation Factor	Fiscal	Engineering	Easements	Federal Supervision &	LDNR Supervision & Supervision	i de			
5		0	& Design	& Land Rights	Administration	Administration Administration & Inspection	Supervision & Inspection		First Cost	Total First
4 (		0	3 S	<u> </u>	05	0\$	\$0	Sommingency	Construction	Cost
. c	•	0	<b>\$</b> 0	0 <b>\$</b>	<u>,</u>	0 <b>s</b>	<b>\$</b>	<b>9</b>		0 <b>\$</b>
<b>-</b>	1.000	1997	\$38,000	\$76,000	0\$	9 <b>9</b>	<u></u>	<b>S</b>	0 <b>\$</b>	0 6
		TOTAL	\$231,075	\$0	\$195,130	\$53.466	\$244 426	\$0	0\$	\$114,000
		!	C/0'607#	\$76,000	\$195,130	\$53,466	\$244,426	\$488,595 \$488 505	\$1,954,381	\$3,167,073
:	Inflation	Fiscal	Monitoring	0814	į			0000	41,954,381	\$3,281,073
Year	Factor	Year	Costs	Nac Series	č če					
<del>,</del>	1.055	1999	\$24 884	- 1	Costs					
?	1.083	2000	\$25.556		\$527					
ç	1.112	2001	\$26.233	0	\$542					
4	1.142	2002	\$26.955	2	\$556					
-5	1.173	2003	\$27,683	0, 6	\$571					
Ģ	1.205	2004	\$28 430		\$587					
<b>~</b>	1.238	2005	\$29,198	0 6	\$603					
φ.	1.271	2006	\$29,986	9	\$619					
6- ;	1.305	2007	\$30,796	9	\$635					
OL-	1.341	2008	\$31,627	\$151.470	<b>\$653</b>					
÷:	1.377	2009	\$32,481	6/4/21	\$670					
-15	1.414	2010	\$33,358	<b>3 5</b>	\$688					
2 \$	1.452	2011	\$34,259	9	10/ <b>¢</b>					
<u>*</u> 4	1.491	2012	\$35,184	<b>S</b>	6770					
<u>.</u>	1.532	2013	\$36,134	Ş	\$746 \$766					
0 :	1.573	2014	\$37,109	<b>\$</b>	91/00					
) <del>[</del> -	1.615	2015	\$38,111	÷ &	98/8					
æ :	1.659	2016	\$39,140	9	\$808 \$000					
-1g	1.704	2017	\$40,197	3	\$829					
-50	1.750	•	\$41,282	<u></u>	\$852					
	Total	1	\$648,601	£151 470	C/0¢					
				0.2	\$13,746					

#### Page 1

### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

#### Penchant Basin (PTE-26)

Project Construction Years:	4	Total Project Years	24
Interest Rate	7.38%	Amoritization Factor	0.0971616
Total First Costs	\$11,379,800	Total Fully Funded Costs	\$21,180,200

Average	\$1,158,300 \$29,500 \$300,500 \$500	\$1,488,800	1,445	\$1,030	865
Present Worth	\$11,921,400 \$303,500 \$3,092,900 \$5,100	\$15,322,900			
Annual Charges	Interest & Amortization Monitoring O & M Costs Other Costs	Total	Average Annual Habitat Units	Cost Per Habitat Unit	Average Annual Acres of Emergent Marsh

#### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

Penchant Basin (PTE-26)

First Costs and Annual Charges

	rotal First Cost	\$0	\$400,000	\$458,312 \$3,769.887	\$6,031,051		\$10,659,250																							
First Cost	Construction	0\$	20	\$0 \$2,531,786	\$4,557,214		\$7,089,000																							
	Contingency	0\$	0.0	\$632,946	\$1,139,304	£4 720 050	002,211,14																							
Supervision	& Inspection	<u></u>	) S	\$71,429	\$128,571	\$200,000	000,000																							
LDNR Supervision & Supervision	Administration		\$19,231	\$46,154	C10'70#	\$118.000																								٠
Federal Supervision &	Administration Administration & Inspection	S	\$85,192	\$204,462 \$153.346		\$443,000		Other	Costs	6500	96500	0000	000\$	000	00c\$	\$200	\$500	\$200	\$200	\$200	\$200	\$500	\$500	\$200	\$200	\$200	\$200	\$500°	\$500	\$10,000
Easements	SO SO	\$150,000	0 <b>\$</b>	0 S		\$150,000		08M	Costs	\$244 000	\$305,000	\$244 000	\$305,000	\$401,000	000,104	\$300,000	\$244,000	\$303,000 \$344,000	6462,000	4462,000	\$244,000	\$305,000	\$244,000 \$305,000	\$303,000 \$404,000	4401,000	000,000	\$244,000	\$305,000	\$244,000	\$6,118,000
Engineering & Desian	9	\$250,000	\$353,889	\$00\$		\$887,000	:	Monitoring	Costs	\$29,492	\$29,492	\$29.492	\$29,492	\$29.492	\$29.402	\$20,432	\$29.492	\$29.492	\$29,492	\$20,402	\$29,492 \$20,400	\$29,492	\$29,492	\$29,492	\$20,402	<b>6</b> 20,432	\$29,492 \$20.400	\$29'43Z	\$29,49Z \$29,492	\$589,840
Fiscal Year		1997	1998	2000	TOTAL	OIAL OIAL		riscai	rear	2001	2002	2003	2004	.2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	a
Year		3 Compound		1 Compound	DdSB Tear	-		Vear	3	Junopsin - 3	N (	3 Discount	4 Discount	5 Discount	6 Discount	7 Discount	8 Discount	9 Discount	10 Discount	11 Discount	12 Discount	13 Discount	14 Discount	15 Discount	16 Discount	17 Discount	18 Discount	19 Discount	20 Discount	Total

## Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

#### Penchant Basin (PTE-26)

Engineering Easements         Federa Federa           & Design         & Land Rights         Administra           \$1332,317         \$199,390         \$135,535,535,535,535,535,5410         \$0         \$135,535,535,535,535,535,535,535,535,535,	Contingency Co \$0 \$0 \$0 \$0 \$1,223,327 \$1,953,076	First Cost  Construction \$0 \$0 \$0 \$2,918,995 \$4,893,309 \$7,812,303	\$0.0\$1 \$0.0\$1 \$0.0\$231,707 \$5531,707 \$567,376 \$4,346,450 \$6,475,841 \$11,921,374
& Design         & Land Rights         Administration           \$0         \$0         \$0           \$332,317         \$199,390         \$0           \$438,103         \$0         \$105,465           \$326,410         \$0         \$154,655           \$0         \$199,390         \$505,853           \$1,096,830         \$199,390         \$505,853           \$1,096,830         \$199,390         \$505,853           \$27,466         \$227,241         \$466           \$25,580         \$264,541         \$404           \$22,187         \$229,450         \$376           \$22,187         \$229,450         \$376           \$19,244         \$199,013         \$326           \$10,663         \$229,450         \$376           \$10,691         \$172,613         \$228           \$14,477         \$226,783         \$228           \$13,482         \$111,546         \$229           \$13,482         \$111,546         \$229           \$13,482         \$129,4         \$128           \$12,56         \$129,4         \$128           \$13,482         \$111,546         \$229           \$11,694         \$129,4         \$128	\$0 \$0 \$0 \$1,223,327 \$1,953,076	\$0 \$0 \$0 \$1,918,995 7,812,303	\$0 \$531,707 \$567,376 \$4,346,450 \$6,475,841 \$11,921,374
\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$1.229,749 \$1,953,076	\$0 \$0 \$0 4.893,309 7,812,303	\$531,707 \$567,376 \$4,346,450 \$6,475,841 \$11,921,374
\$332,317 \$1193,390 \$105,465 \$23,807 \$326,410 \$0 \$105,465 \$53,213 \$10,96,830 \$1096,830 \$109,390 \$505,853 \$133,515 \$10,96,830 \$236,732 \$56,496 \$10,100,100,100,100,100,100,100,100,100,	\$0 \$729,749 \$1,223,327 \$1,953,076	\$0 2,918,995 4,893,309 7,812,303	\$567,376 \$4,346,450 \$6,475,841 \$11,921,374
\$326,410 \$1096,830 \$1,096,830 \$1,096,830 \$11,096,830 \$11,096,830 \$10,143 \$21,096,830 \$10,143 \$12,640 \$10,143 \$12,641 \$12,641 \$12,641 \$12,641 \$12,641 \$12,641 \$12,641 \$12,641 \$12,641 \$12,641 \$12,641 \$12,641 \$12,641 \$12,641 \$12,641 \$12,641 \$12,641 \$12,641 \$12,641 \$11,541 \$11,541 \$11,641 \$	\$729,749 \$1,223,327 \$1,953,076	2,918,995 4,893,309 7,812,303	\$4,346,450 \$6,475,841 \$11,921,374
\$20,410 \$1,096,830 \$1,096,830 \$1,096,830 \$1,096,830 \$27,466 \$27,466 \$227,241 \$23,823 \$197,097 \$22,187 \$22,187 \$20,663 \$19,244 \$19,013 \$11,544 \$11,546 \$11,546 \$11,546 \$11,546 \$11,546 \$11,694	\$1,223,327 \$1,953,076	7,812,303	\$6,475,841 \$11,921,374
\$1,096,830 \$199,390 \$505,853 \$133,515  Monitoring O&M Other  Costs Costs Costs Costs  \$27,466 \$227,241 \$466 \$22,187 \$229,450 \$376 \$22,187 \$229,450 \$376 \$19,244 \$199,013 \$326 \$11,922 \$148,275 \$304 \$15,544 \$128,606 \$229 \$13,482 \$111,546 \$245 \$11,694 \$112,630 \$185 \$11,694 \$112,630 \$185 \$11,694 \$112,630 \$185 \$11,694 \$112,630 \$185	\$1,953,076	7,812,303	<b>\$</b> 11,921,374
Monitoring         O&M         Other           Costs         Costs         Costs           \$27,466         \$227,241         Costs           \$25,580         \$264,541         \$23,823           \$22,187         \$229,450         \$22,187           \$20,663         \$280,950         \$19,244           \$19,244         \$199,013         \$17,922           \$16,691         \$172,613         \$15,544           \$15,544         \$128,606         \$13,482           \$13,482         \$111,546         \$129,0           \$12,556         \$129,0         \$10,143           \$10,143         \$112,630         \$112,630			
\$27,466 \$227,241 \$25,580 \$227,241 \$23,823 \$197,097 \$22,187 \$229,450 \$20,663 \$280,950 \$19,244 \$199,013 \$19,244 \$199,013 \$17,922 \$148,275 \$16,691 \$172,613 \$15,544 \$128,606 \$14,477 \$226,783 \$13,482 \$111,546 \$12,556 \$129,4 \$11,694 \$96,749 \$10,143 \$112,630			
\$27,466 \$227,241 \$25,580 \$264,541 \$23,823 \$197,097 \$22,187 \$229,450 \$20,663 \$229,450 \$117,922 \$148,275 \$16,691 \$172,613 \$15,544 \$128,606 \$14,477 \$226,783 \$13,482 \$111,546 \$12,556 \$129,c \$11,694 \$129,c \$11,694 \$111,546 \$12,630 \$10,143 \$117,910			
\$25,580 \$264,541 \$23,823 \$197,097 \$22,187 \$229,450 \$20,663 \$280,950 \$19,244 \$199,013 \$17,922 \$148,275 \$16,691 \$172,613 \$15,544 \$128,606 \$14,477 \$226,783 \$13,482 \$111,546 \$12,556 \$129,4 \$11,694 \$10,143 \$10,143 \$112,630			
\$23,823 \$197,097 \$22,187 \$229,450 \$20,663 \$280,950 \$19,244 \$199,013 \$17,922 \$148,275 \$16,691 \$172,613 \$15,544 \$128,606 \$14,477 \$226,783 \$13,482 \$111,546 \$12,556 \$129,4 \$11,694 \$96,749 \$10,891 \$112,630			
\$22,187 \$229,450 \$20,663 \$280,950 \$19,244 \$199,013 \$17,922 \$148,275 \$16,691 \$172,613 \$15,544 \$128,606 \$14,477 \$226,783 \$13,482 \$111,546 \$12,556 \$129,c \$11,694 \$96,749 \$10,143 \$112,630			
\$20,663 \$280,950 \$19,244 \$199,013 \$17,922 \$148,275 \$16,691 \$172,613 \$15,544 \$128,606 \$14,477 \$226,783 \$13,482 \$111,546 \$12,556 \$129,c \$11,694 \$96,749 \$10,143 \$112,630			
\$19,244 \$199,013 \$17,922 \$148,275 \$16,691 \$172,613 \$15,544 \$128,606 \$14,477 \$226,783 \$13,482 \$111,546 \$12,556 \$129,c \$11,694 \$96,749 \$10,143 \$112,630			
\$17,922 \$148,275 \$16,691 \$172,613 \$15,544 \$128,606 \$14,477 \$226,783 \$13,482 \$111,546 \$12,556 \$129, \$11,694 \$96,749 \$10,891 \$112,630			
\$16,691 \$172,613 \$15,544 \$128,606 \$14,477 \$226,783 \$13,482 \$111,546 \$12,556 \$129,c \$11,694 \$96,749 \$10,891 \$112,630 \$10,143 \$137,910			
\$15,544 \$128,606 \$14,477 \$226,783 \$13,482 \$111,546 \$12,556 \$129,4 \$11,694 \$96,749 \$10,891 \$112,630 \$10,143 \$137,910			
\$14,477 \$226,783 \$13,482 \$111,546 \$12,556 \$129. \$11,694 \$96,749 \$10,891 \$112,630 \$10,143 \$137,910			
\$13,482 \$111,546 \$12,556 \$129. \$11,694 \$96,749 \$10,891 \$112,630 \$10,143 \$137,910			
\$12,556 \$129.c \$11,694 \$96,749 \$10,891 \$112,630 \$10,143 \$137,910			
\$11,694 \$96,749 \$10,891 \$112,630 \$10,143 \$137,910			
\$10,891 \$112,630 \$10,143 \$137,910			
\$10,143 \$137,910			
2016 \$9,446 \$97,690 \$160			
2017 \$8,797 \$72,784 \$149			
\$8,193 \$84,731			
\$7,106 \$111,321			
\$303,536 \$3,092,916 \$5,146			
\$29,492 \$300,513 \$500			
Costs amodized over 20 year operation life			

D-38

#### Coastal Wellands Conservation and Restoration Plan Priority Project List VI

: :

#### Penchant Basin (PTE-26)

\$2,057,902	į	lotal First	05	\$400 000	\$470,686	\$3 976 200	\$6,532,875	\$11,379,770																								
<u> </u>	Fired Cost	Construction	0\$	\$0	\$0	\$2,670,348	\$4,936,405	\$7,606,753																								
Amortized Costs		Contingency	<b>9</b>	<b>2</b> 0	<b>%</b>	\$667,587	\$1,234,101	\$1,901,688																								
	Supervision	& Inspection	<u> </u>	0.5	0\$	\$75,338	\$139,269	\$214'p0/																								
	LDNR Supervision & Supervision	Administration Administration & Inspection	<b>3</b>	410 750	007.614	946,080	\$56,993	674,621																								
\$21,180,199	Federal Supervision &	Administration	9	587 493	\$215,55	£166 106	\$469.250	1	Other	4300	COSIS	9000	\$571	/8c¢	\$603	\$619	\$635	\$653	\$670	\$688	\$707	\$726	\$746	\$766	\$786	\$808	\$829	<b>6</b> 863	\$632 \$875	000	\$033 <b>\$</b> 003	\$14,498
nded Costs	Easements	s cand rights	\$150,000	20	9	9	\$150,000		08M	Costs	\$271 306	\$348 450	\$346,439 \$286,304	4367,534	\$307,030	\$490,258 \$055,055	\$387,645	<b>\$</b> 318,489	\$408,860	\$335,919	\$653,217	\$354,304	\$454,838	\$373,695	\$479,730	\$647,757	\$505,986	\$415.718	\$533,678	\$438.470	\$852,633	\$8,930,785
Total Fully Funded Costs	Engineering & Design	\$0	\$250,000	\$363,444	\$298,605	<b>S</b>	\$912,049	:	Monitoring	Costs	\$32.792	\$33 694	\$34,604	£35 53B	\$36.40B	£37.483	504,403	\$36,495 \$00,000	\$39,535	\$40,602	\$41,698	\$42,824	\$43,981	\$45,168	940'38R	\$47,640	\$48,926	\$50,247	\$51,604	\$52,997	\$54,428	\$855,145
	Fiscal Year	0	1997	1998	1999	2000	TOTAL	į	LISCAL	Year	2001	2002	2003	2004	2005	2006	2002	2009	2000	2003	2010	1107	2012	2013	407	2015	2016	2017	2018	2019	2020	<u></u>
Fully Funded Costs	Inflation Factor		1.000	1.027	1.055	1.083	_	Inflation		Factor	1.112	1.142	1.173	1.205	1.238	1.271	1.305	1 341	1.377	1 414	1 452	1 404	1.431	1.573	1616	1.013	600.1	- V04	1.750	1.797	1.846	Total
Fully F	Year	က	₹ (	י ר	v •	-			>	Pa		ი D-:	က အ	4	-5	9-	1-	æ	o o	-10	<del>:</del> <del>-</del>	: 4:	. 1.	<u>+</u>	-15	91-	2 4	) ·	-18	6L-	-50	

#### Page 1

### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

#### Penchant Basin (PTE-26I), Increment 1

Average	\$1,158,100 \$29,500 \$56,500 \$50.	\$1,244,600	1,204	\$1,034	629
Present Worth	\$11,919,200 \$303,500 \$581,600 \$5,100	\$12,809,400			
Annual Charges	Interest & Amortization Monitoring O & M Costs Other Costs	Total	Average Annual Habitat Units	Cost Per Habitat Unit	Average Annual Acres of Emergent Marsh

### Coastal Wellands Conservation and Restoration Plan Priority Project List VI

#### Penchant Basin (PTE-26I), Increment 1

#### First Costs and Annual Charges

	Fnoinearing	Facomond	Federal	LDNR				
		Easements		Supervision & Supervision	Supervision			First Cost
- 1	a Design	& Land Kighis		Administration Administration & Inspection	& Inspection	Contingency	ပ	Construction
	2	<b>S</b>	<b>S</b>	<b>9</b>	<b>S</b>	9		5
	\$250,000	\$150,000	<b>\$</b>	<b>S</b>	9	<b>;</b>		\$
	\$353,889	<b>S</b>	\$85,192	\$19.231	S	\$ 5		
	\$283,111	<b>\$</b>	\$204,462	\$46,154	\$71.429	\$632 946		902 123 63
	<b>&amp;</b>	<b>\$</b>	\$153,346	\$50,615	\$128,571	\$1,139,304		\$4,557,214
	\$887,000	\$150,000	\$443,000	\$116,000	\$200,000	\$1,772,250		\$7,089,000
	Monitoring	W\$O	Other					
	Costs	Costs	Costs					
	\$29,492	<b>9</b>	\$500					
	\$29,492	\$61,000	\$500					
	\$29,492	<b>9</b>	\$200					
	\$29,492	\$61,000	\$200					
	\$29,492	\$157,000	\$200					
	\$29,492	\$61,000	\$200					
	\$29,492	<b>S</b>	\$200					
	\$29,492	\$61,000	\$500					
	\$29,492	<b>\$</b>	\$500					
	\$29,492	\$218,000	\$500					
	\$29,492	<b>%</b>	\$200					
	\$29,492	\$61,000	\$200					
	\$29,492	<b>9</b>	\$200					
	\$29,492	\$61,000	\$200					
	\$29,492	\$157,000	\$500					
	\$29,492	\$61,000	\$200					
	\$29,492	<b>%</b>	\$200					
	\$29,492	\$61,000	\$200					
	\$29,492	<b>%</b>	\$500					
	\$29,492	\$218,000	\$200					
	\$589,840	\$1,238,000	\$10,000					

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### Coastal Wetlands Conservation and Restoration Plan Project List VI

Penchant Basin (PTE-26I), Increment 1

								בוניםם המשונים בחשום	2	066,444,10
					Federal	LONR				
	Compound	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Year	Rates	Year	& Design	& Land Rights	Administration	Administration Administration & Inspection Contingency	& Inspection	Contingency	Construction	Cost
S	1.427	0	<b>3</b>	<b>\$</b>	0\$	<b>0\$</b>	<b>%</b>	O <b>S</b>	0\$	95
4	1.329	1997	\$332,317	\$199,390	<b>9</b>	0\$	<b>S</b>	<b>\$</b>	. <b>S</b>	\$531,707
က	1.238	1998	\$438,103	0\$	\$105,465	\$23,807	0\$	<b>S</b>	. <b>S</b>	\$567,376
2	1.153	1999	\$326,410	<b>\$</b>	\$235,732	\$53,213	\$82,353	\$729,749	\$2.918.995	\$4,346,450
-	1.074	2000	<b>%</b>	<b>\$</b>	\$164,655	\$54,348	\$138,054	\$1,223,327	\$4,893,309	\$6,473,693
		Total	\$1,096,830	\$199,390	\$505,853	\$131,368	\$220,406	\$1,953,076	\$7,812,303	\$11,919,227
	Discount	Fiscal	Monitoring	08M	Olher					
Year	Rates	Year	Costs	Costs	Costs					
7	0.931	2001	\$27,466	9\$	\$466					
-5	0.867	2002	\$25,580	\$52,908	\$434					
ij	0.808	2003	\$23,823	<b>S</b>	\$404					
4	0.752	2004	\$22,187	\$45,890	\$376					
ιċ	0.701	2005	\$20,663	\$109,998	\$350					
9	0.653	2006	\$19,244	\$39,803	\$326					
	0.608	2007	\$17,922	<b>\$</b>	\$304					
æ	0.566	2008	\$16,691	\$34,523	\$283					
ę.	0.527	2009	\$15,544	<b>9</b>	\$264					
9	0.491	2010	\$14,477	\$107,010	\$245					
÷	0.457	2011	\$13,482	<u>\$</u>	\$229					
-15	0.426	2012	\$12,556	\$25,971	\$213					
-13	0.397	2013	\$11,694	<b>3</b>	\$198					
-14	0.369	2014	\$10,891	\$22,526	\$185					
-15	0.344	2015	\$10,143	\$53,995	\$172					
-16	0.320	2016	\$9,446	\$19,538	\$160					
-11	0.298	2017	\$8,797	<b>0\$</b>	\$149					٠
18	0.278	2018	\$8,193	\$16,946	\$139					
-19	0.259	2019	\$7,630	<b>S</b>	\$129					
-20	0.241	2020	\$7,106	\$52,528	\$120					
	_	Total	\$303,536	\$581,636	\$5,146		•			
	Jenad Aperen	ļci	£20 402	<b>6</b> 58 613	6500					
	iiii afinaya		1010	2 2 2 2	200					

Costs an

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#### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

#### Penchant Basin (PTE-26!), Increment 1

### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

### Sediment Trapping at "The Jaws" (PTV-19b)

24	0.0971616	\$3,167,400
Total Project Years	Amoritization Factor	Total Fully Funded Costs
4	7.38%	\$2,995,800
Project Construction Years:	Interest Rate	Total First Costs

Annual Charges	Present	Average Annual
Interest & Amortization Monitoring O & M Costs Other Costs	\$3,268,800 \$50,700 \$4,900 \$5,100	\$317,600 \$4,900 \$500 \$500
Total	\$3,329,500	\$323,500
Average Annual Habitat Units		754
Cost Per Habitat Unit		\$429
Average Annual Acres of Emergent Marsh		1,048

D-44

Page 1

#### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

#### Sediment Trapping at "The Jaws" (PTV-19b)

First Costs and Annual Charges

## Supervision & Supervision & Land Rights Administration Administration & Inspection \$6,429 \$4,205 \$0 \$0.000 \$6,429 \$4,205 \$0.50 \$0.000 \$6,429 \$4,205 \$0.50 \$0.000 \$25,714 \$16,819 \$41,667 \$0.500 \$0.500 \$50,244 \$50,000 \$0.500 \$	## Supervision & Supervision & Land Rights Administration Administration & Inspection \$0 \$50,000 \$6,429 \$4,205 \$0 \$0 \$0,000 \$6,429 \$4,205 \$0 \$0,000 \$25,714 \$16,819 \$41,667 \$0 \$25,714 \$16,819 \$41,667 \$0 \$25,714 \$16,819 \$41,667 \$0 \$25,714 \$16,819 \$41,667 \$0 \$25,714 \$16,819 \$41,667 \$0 \$25,714 \$16,819 \$41,667 \$0 \$25,714 \$16,819 \$41,667 \$0 \$25,714 \$16,819 \$41,667 \$0 \$25,000 \$12,402 \$13,33 \$13,33	## Supervision & Supervision & Land Rights Administration Administration & Inspection \$6,000 \$6,429 \$4,205 \$0 \$0 \$0,000 \$6,429 \$4,205 \$0 \$0 \$0,000 \$0 \$6,2714 \$16,819 \$41,667 \$0 \$25,714 \$16,819 \$41,667 \$0 \$25,714 \$16,819 \$41,667 \$0 \$25,714 \$16,819 \$41,667 \$0 \$25,714 \$16,819 \$41,667 \$0 \$25,714 \$16,819 \$41,667 \$0 \$25,714 \$16,819 \$41,667 \$0 \$25,714 \$16,819 \$41,667 \$0 \$25,714 \$16,819 \$41,667 \$0 \$25,714 \$16,819 \$41,667 \$0 \$25,714 \$16,819 \$41,667 \$0 \$0,000 \$10,000	Cacino	į	1	rederal	LDNR			
20 Costs	Society Societ	Costs	Ë.	Engineering	Lasements		Supervision &	Supervision		
\$50,000 \$6,429 \$4,205 \$0  \$0 \$25,714 \$16,819 \$4  \$0 \$25,714 \$16,819 \$4  \$0 \$25,714 \$16,819 \$4  \$0 \$25,714 \$16,819 \$4  \$0 \$25,714 \$16,819 \$4  \$0 \$25,714 \$16,819 \$4  \$0 \$25,714 \$16,819 \$4  \$0 \$25,714 \$16,819 \$4  \$0 \$25,714 \$16,819 \$4  \$0 \$25,714 \$16,819 \$4  \$0 \$50,000 \$50,244 \$50,000  \$0 \$500 \$500  \$0 \$500 \$500  \$0 \$500	\$50,000 \$6,429 \$4,205 \$0  \$0 \$25,714 \$16,819 \$4  \$0 \$25,714 \$16,819 \$2  \$0 \$25,00 \$2  \$0	\$50,000 \$6,429 \$4,205 \$0  \$0 \$25,714 \$16,819 \$41,667  \$0 \$25,714 \$16,819 \$41,667  \$0 \$25,714 \$16,819 \$41,667  \$0 \$25,714 \$16,819 \$41,667  \$0 \$25,714 \$16,819 \$41,667  \$0 \$25,714 \$16,819 \$41,667  \$0 \$25,714 \$16,819 \$41,667  \$0 \$25,714 \$16,819 \$41,667  \$0 \$25,714 \$16,819 \$41,667  \$0 \$25,714 \$16,819 \$41,667  \$0 \$25,714 \$16,819 \$41,667  \$0 \$25,714 \$16,819 \$41,667  \$0 \$25,714 \$16,819 \$41,667  \$0 \$25,714 \$16,819 \$41,667  \$0 \$25,714 \$16,819 \$41,667  \$0 \$25,714 \$16,819 \$41,667  \$0 \$25,714 \$16,819 \$41,667  \$0 \$25,00  \$0 \$	٥	a Design	& Land Rights	ı	Administration	& Inspection		Contingency
\$6,429 \$4,205 \$0 \$25,714 \$16,819 \$0 \$25,714 \$16,819 \$0 \$25,714 \$16,819 \$0 \$25,714 \$16,819 \$12,402 \$8,3 \$12,402 \$8,3 \$12,402 \$8,3 \$12,402 \$8,3 \$12,402 \$8,3 \$12,402 \$8,3 \$12,143 \$12,402 \$8,3 \$12,143 \$12,402 \$8,3 \$10,000 \$50,000 \$10,000 \$50,000 \$10,000 \$500 \$10,000 \$1	\$6,429 \$4,205 \$0 \$25,714 \$16,819 \$0 \$25,714 \$16,819 \$0 \$25,714 \$16,819 \$0 \$25,714 \$16,819 \$12,402 \$8,3 \$12,402 \$8,3 \$12,402 \$8,3 \$12,402 \$8,3 \$12,402 \$8,3 \$12,143 \$12,402 \$8,3 \$13,143 \$12,402 \$8,3 \$13,143 \$12,402 \$8,3 \$13,143 \$12,402 \$13,3 \$13,143 \$13,143 \$1,14	\$6,429 \$4,205 \$6,429 \$4,205 \$7 \$6,429 \$4,205 \$8 \$25,714 \$16,819 \$41,6 \$9 \$25,714 \$16,819 \$41,6 \$9 \$25,714 \$16,819 \$41,6 \$0 \$25,714 \$16,819 \$41,6 \$0 \$25,714 \$16,819 \$41,6 \$0 \$25,714 \$16,819 \$41,6 \$0 \$25,714 \$16,819 \$41,6 \$10,000 \$60,000 \$50,24 \$50,0 \$0 \$500		2	<b>S</b>	<b>\$</b>	<b>\$</b>	0 <b>\$</b>	ì	S
\$0 \$25,714 \$16,819 \$0 \$25,714 \$16,819 \$0 \$25,714 \$16,819 \$0 \$25,714 \$16,819 \$0 \$25,714 \$16,819 \$0 \$25,714 \$16,819 \$0 \$50,000 \$50,244 \$0 \$500 \$0 \$500	\$0 \$25,714 \$16,819 \$0 \$25,714 \$16,819 \$0 \$25,714 \$16,819 \$0 \$25,714 \$16,819 \$0 \$25,714 \$16,819 \$0 \$25,714 \$16,819 \$0 \$25,714 \$16,819 \$0 \$50,000 \$50,244 \$0 \$500	\$0 \$25,714 \$16,819 \$0 \$50,000 \$50,244 \$0 \$500 \$0 \$500		<b>\$48</b> ,684	\$50,000	\$6,429	\$4,205	90		<b>5</b>
\$0 \$25,714 \$16,819 \$12,402 \$25,714 \$16,819 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$2,143	\$0 \$25,714 \$16,819 \$12,402 \$25,714 \$16,819 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$1,12,402 \$2,143 \$1,12,402 \$2,143 \$1,12,402 \$2,143 \$1,12,402 \$2,143 \$1,12,402 \$2,143 \$1,12,402 \$2,143 \$1,12,402 \$2,143 \$1,12,402 \$2,143 \$1,12,402 \$2,143 \$2,	\$0 \$25,714 \$16,819 \$12,402 \$25,714 \$16,819 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$12,402 \$2,143 \$2,12,402 \$2,143 \$2,12,402 \$2,12,		\$94,737	<b>\$</b>	\$25,714	\$16.819	<b>5</b>		\$ \$
\$50,000 \$2,143 \$12,402  \$50,000 \$60,000 \$50,244 \$1  O&M Other  Costs Costs  \$0 \$500	\$50,000 \$2,143 \$12,402  \$50,000 \$60,000 \$50,244 \$1  O&M Other  Costs Costs  \$0 \$500	\$50,000 \$2,143 \$12,402  \$50,000 \$60,000 \$50,244 \$1  O&M Other  Costs Costs \$0 \$500		\$31,579	<b>S</b>	\$25,714	\$16,819	\$41 667		<b>C408 702</b>
S50,000 \$60,000 \$50,244  O&M Other Costs Costs  \$0 \$500 \$0 \$500 \$0 \$500 \$0 \$500 \$0 \$500 \$10,000 \$500 \$0 \$500 \$0 \$500 \$0 \$500 \$0 \$500 \$0 \$500 \$0 \$500 \$0 \$500 \$0 \$500 \$0 \$500 \$0 \$500	\$50,000 \$50,244  O&M Other Costs Costs \$0 \$500 \$0 \$500 \$0 \$500 \$0 \$500 \$0 \$500 \$0 \$500 \$10,000 \$500 \$0 \$500 \$0 \$500 \$0 \$500 \$0 \$500 \$0 \$500 \$0 \$500 \$0 \$500 \$0 \$500 \$0 \$500 \$0 \$500	\$50,000 \$50,244  O&M Other Costs Costs \$0 \$500		<b>≎</b>	<b>0\$</b>	\$2,143	\$12,402	\$8,333		\$81,758
O&M Other Costs \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50	O&M Costs \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50	O&M Costs \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50	ł	\$175,000	\$50,000	\$60,000	\$50,244	\$50,000	ı	\$490,550
Costs	Costs	Costs	_	Monitoring	O&M	Other				
0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		Costs	Costs	Costs				
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	\$\frac{1}{2} \frac{1}{2} \frac			\$4,929	1	\$500				
0.000000000000000000000000000000000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0			\$4,929	<b>9</b>	\$500				
00000000000000000000000000000000000000	00000000000000000000000000000000000000			\$4,929	<b>\$</b>	\$500				
05 05 05 05 05 05 05 05 05 05 05 05 05 0	03 03 03 03 03 03 03 03 03 03 03 03 03 0	03 03 03 03 03 03 03 03 03 03 03 03 03 0		\$4,929	<b>S</b>	\$500				
0.000000000000000000000000000000000000	0.00.01.00.00.00.00.00.00.00.00.00.00.00	0.00.00.00.00.00.00.00.00.00.00.00.00.0		\$4,929	\$0	\$500				
05 05 05 05 05 05 05 05 05 05 05 05 05 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		\$4,929	<b>\$</b>	\$500				
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00.00.00.00.00.00.00.00.00.00.00.00.0	0.00.00.00.00.00.00.00.00.00.00.00.00.0		\$4,929	<b>S</b>	\$200				
05 000.01 05 05 05 05 05 05 05 05 05 05 05 05 05	05 00 05 05 05 05 05 05 05 05 05 05 05 0	00000000000000000000000000000000000000		\$4,929	<b>\$</b>	\$500				
000.01	000.01	000.01		\$4,929	<b>S</b>	\$500				
				\$4,929	\$10,000	\$200				
				\$4,929	<b>\$</b>	\$500				
<u> </u>	<u>2 2 2 2 2 2</u>			\$4,929	<b>\$</b>	\$500				
2222	<u>2 2 2 2 2</u>	<u>2 2 2 2 2 3</u>		\$4,929	<b>\$</b>	\$200				
<u>0</u> 0 0	S S S S	<u>2 2 2 2 2</u>		\$4,929	<b>\$</b>	\$500				
9 9	0 0 0 0 0 0	S S S S		\$4,929	<b>\$</b>	\$500				
0\$	<u> </u>	<u> </u>		\$4,929	\$0	\$200	ï			
	0\$	<u>0</u> , 0,		\$4,929	<b>0\$</b>	\$500				
0 0 S	<b>S</b>		ţ	\$98,580	\$10,000	\$10.000				

3/14/97

### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

#### Sediment Trapping at "The Jaws" (PTV-19b)

									2	4353,300
					Federal	LDNR				
Year	Compound Rates	Fiscal Year	Engineering & Design	Easements & Land Rinhts	Supervision & Administration	Supervision & Supervision & Supervision Administration Administration & Inspection	Supervision Lineaection	Contingency	First Cost	Total First
5	1.427	0	9	\$0	90	\$0	20		Collegiaculori	200
4	1.329	1997	\$64,714	\$66,463	\$8,545	\$5,589	. <b>S</b>	9	9	\$145.312
က	1.238	1998	\$117,281	0\$	\$31,833	\$20,821	<b>S</b>	<b>S</b>	9	\$169.936
7	1.153	1999	\$36,409	0\$	\$29,647	\$19,391	\$48.039	\$471.312	\$1,885,248	\$2 490 045
-	1.074	2000	<b>%</b>	\$0	\$2,301	\$13,316	\$8,948	\$87.788	\$351,152	\$463,505
		Total	\$218,404	\$66,463	\$72,327	\$59,118	\$56,987	\$559,100	\$2,236,400	\$3,268,798
	Discount	Fiscal	Monitoring	O&M	Other					
Year	Rates	Year	Costs	Costs	Costs					
7	0.931	2001	\$4,590	95	\$466					
-5	0.867	2002	\$4,275	<b>9</b>	\$434					
6-	0.808	2003	\$3,982	<b>\$</b>	\$404					
4	0.752	2004	\$3,708	\$0	\$376					
-5	0.701	2005	\$3,453	<b>\$</b>	\$320					
<b>တု</b>	0.653	2006	\$3,216	<b>\$</b>	\$326					
-1	0.608	2007	\$2,995	\$	\$304					
ထု	0.566	2008	\$2,790	<b>\$</b>	\$283					
ė	0.527	2009	\$2,598	<b>S</b>	\$264					
-10	0.491	2010	\$2,420	\$4,909	\$245					
-	0.457	2011	\$2,253	<b>9</b>	\$229					
-12	0.426	2012	\$2,099	<b>%</b>	\$213					
-13	0.397	2013	\$1,954	<b>\$</b>	\$198					
-14	0.369	2014	\$1,820	<b>S</b>	\$185					
-15	0.344	2015	\$1,695	<b>9</b>	\$172					
-16	0.320	2016	\$1,579	<b>%</b>	\$160					
-17	0.298	2017	\$1,470	<b>%</b>	\$149					
-18	0.278	2018	\$1,369	<b>\$</b>	\$139					
-19	0.259	2019	\$1,275	<b>9</b>	\$129					
-20	0.241	2020	\$1,188	<b>9</b>	\$120					
	<b>F</b>	Lotal	\$50,730	\$4,909	\$5,146					
7	Average Applial	ī	44 020	<b>4</b> 477	6500					
•										

#### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

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#### Sediment Trapping at "The Jaws" (PTV-19b)

;						(OS1-A1-)	(061-			
Felly	Fully Funded Costs	•	Total Fully Funded Costs	ded Costs	\$3,167,376			Amortized Costs	ŝ	\$307,747
Year	Inflation Factor	Fiscal Year	Engineering & Design	Easements & Land Rights	Federal Supervision & Administration	LDNR Supervision & Supervision	Supervision		First Cost	Total First
S.		0	2	9		Administra	& Inspection	Contingency	Construction	Cost
4	1.000	1997	\$48.684	\$50,000	9	2	<b>9</b>	<b>9</b>	9	0.5
e	1.027	1998	\$97.205	000'000	\$0,429	<b>\$4</b> ,205	<b>3</b>	\$	3 5	
2	1.055	1989	\$33.307		\$26.409	\$17,273	<b>\$</b>	9	•	\$109,317
-	1.083	2000	100,500	2	\$27,122	\$17,739	\$43,947	5431 164	£1 724 GEO	\$140.976
	ı	TOTAL	900 0213	2	\$2,321	\$13,433	\$9,027	<b>S</b> 88 561	6354,036	\$2,277,937
	•	<b>,</b>	997'8714	\$20,000	\$62,280	\$52,650	\$52,974	\$519,726	\$2.078 902	\$467,587
	Inflation	Fiscal	Monitoring		;			•	700'0 0'0	910'066'74
Year	Factor	Year	Costs	O O	Other					
7	1.112	2001	CU343	Costs	Costs					
<i>c</i> -	1 143	1000	05'00	3	\$556					
, ,	71.1	2002	\$5,631	<b>\$</b>	\$571					
, •	57.7	2003	\$5,783	<b>S</b>	\$587					
<del>,</del> ,	1.205	2004	\$5,940	S	<b>\$</b>					
ဂ္	1.238	2002	\$6.100	\$ \$	600					
Ģ	1.271	2006	\$6.265	\$ \$	810¢					
.7	1.305	2007	\$6.434	•	2020					
æ	1.341	2008	<b>S</b> 6 607		ECO#	-				
Ġ.	1.377	2009	\$6.786	2	\$670					
-10	1.414	2010	66.060		2688					
<del>-</del>	1.452	2011	67,167	\$14,139	\$707					
-12	1.491	2012	£7.350	3	\$726					
-13	1.532	2013	67 640	2	\$746					
-14	1 573	2017		O <b>\$</b>	\$766					
<u>. 1.</u>	1 646	100	50/1/6	<b>\$</b>	\$786					
2 4	50.	CI07	\$7,962	<b>≎</b>	\$808					
2 :	600.1	2016	\$8,177	<b>9</b>	5829					
÷ :	1.704	2017	\$8,398	9	<b>6</b> 862					
<b>.</b>	1.750	2018	\$8,625	9	4004					
6 ;	1.797	2019	\$8,857	\$ \$	6000					
-50	1.846	2020	\$9,097	3	6600					
	Total	- E	£142 920	2007	6363					
				7 78	<b>♦14,498</b>					

#### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

### Qaks/Avery Canals Hydrologic Restoration (XTV-25)

Project Construction Years.	•••	Total Project Years	.62
Interest Rate	7.36%	Amoritization Factor	0.0971616
Total First Costs	\$2,316,300	Total Fully Funded Costs	\$3,319,500

	Present	Average
Annual Charges		
Interest & Amortization	\$2,395,200	\$232,700
Monitorina	\$242,800	\$23,600
O & M Costs	\$120,200	\$11,700
Other Costs	\$5,100	0055
Total	\$2,763,300	\$268,500
Average Annual Habitat Units		305
Cost Per Habitat Unit		088\$
Average Annual Acres of Emergent Marsh		102

Costs amortized over twenty years

#### Costs amortized over twenty years

418/97

#### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

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### Oaks/Avery Canabs Hydrologic Restoration (XTV-25)

first Costs and Annual Charges

Year	Flecal	Engineering & Deston	Easements A 1 and Plants		LDNR Supervision & Supervision	Supervision		Feet Cost	Total First
5 Compoun		9		Authorising	Administration & Inspection Contingency	& Inspection	Contingency	Construction	Cost
	9	2	2	3	2 3	유 (	0\$	O <b>\$</b>	0\$
		\$30,000	\$65,000	3	2 2	3 5	<b>2</b>	<b>\$</b>	9
Z Compound		\$110,000	8	\$28.580	\$12.353	2 5	2	2	\$95,000
1 Compound Base Year		\$55,000	3	\$52,412	\$38,647	\$65,000	\$350,000	\$0 \$1,400,000	\$150,941 \$1,959,059
	TOTAL	\$196,000	\$65,000	<b>CB4</b> 000					
				000'i 04	\$48,000	\$85,000	\$350,000	\$1,400,000	\$2,205,000
;	Flecal	Monitoring	OFW	Other					
<b>A88</b>	Year	2000	Coate						
1 Discount	2002	\$23,503	Ş	200					
2 Discount	2051	\$23.593	3 \$	000					
3 Discount	2002	827 503	2 5	CDS					
4 Discount	2003	\$23 503	2 2	200					
5 Discount	2	622 E03		\$200 \$200					
8 Discount	500	<b>4</b> 63,3 <b>8</b> 3	\$82,000	\$200					
7 Discount	200	282,246 609,696	8	\$200					
8 Discount	7000	\$63,083	<b>3</b>	\$200					
o Carrier o	7007	243,083	2	\$200					
		\$23,583	2	\$200					
	2000	\$23,583	<b>\$</b> 49,000	\$500					
_ `	2010	\$23,593	2	2500					
_	2011	\$23,593	8	200					
_	2012	\$23,593	S	656					
	2013	\$23,583	ន	900					
_	2014	\$23,593	\$92,000	<b>6</b> 500					
16 Discount	2015	\$23,593	S	900					
- In Germania	9543	\$27 593	3 \$	-					
18 Discount	2017	\$23,593	S	Orge					
19 Discount	2018	\$23.593	3 5	000					
20 Discount	ı	\$23,593	3	900t					
	Total	\$471,860	\$233,000	\$10,000					
				1 1 1 1					

### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

### Oaks/Avery Canals Hydrologic Restoration (XTV-25)

			ı	Federal					
Compenend Year Rates	Flecal Year	Engineering & Desion	Easements & Land Rights	Supervision & Administration	Supervision & Supervision Administration & Inspection	Supervision & Inspection	Contingency	First Cost Construction	
		2	8	2		2		2	1
1329		3	3	3		8	3	3	
1236	1997	\$37,139	\$80,468	2		<b>3</b>		<b>3</b>	
1.153	1996	\$126,823	3	\$32,960	\$14,2	2		<b>3</b>	
1,874		\$59,056	2	\$56,277		\$69,794	\$375,813	\$1,503,250	
	Total	\$223,019	\$80,468	\$89,238	\$53,592	\$66,794	\$375,813	\$1,503,250	1
Discount	Flecal	Montton	OSM	Other					
Year Rates	Year	Costs	Costs	Costs					
1000		\$21,973	2	<b>2486</b>	•				
-2 3.067		\$20,463	2	<b>7675</b>					
8088		\$19.058	3	\$404					
0.752		\$17,749	3	\$376					i
0.701		\$16,530	\$84,457	\$350	_				
0.053		-	<b>3</b>	\$328					
909.6		\$14,337	<b>\$</b>	<b>\$</b> 30 <b>*</b>					
0.566			2	\$283					
0.527		\$12,435	2	\$284					
0.491			\$24,053	\$245					
-11 0A57			2	\$229	_				
-12 0.428		\$10,045	2	\$213					
-13 0.397	2012	\$9,355	2	\$198					
-14 0,369		\$8,712	2	\$185					
		-	\$31,640	\$172	•				
-16 0.320		\$7,557	8	\$160	_				
-17 0.298		\$7,038	2	\$149	_				
-ie 6.1.5	2017			\$ 139		:			
			2	\$129	_				
			2		_				
	Total	2	\$120,150	\$5,146	<b>!</b>				

Page 3

Costs amortized over twenty years

4/18/97

#### Coastal Wellands Conservation and Restoration Plan Priority Project List Vi

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### Oaks/Avery Canals Hydrologic Restoration (XTV-25)

•								,	3322,333
	Ĭ		ı	Federal	LDNR				
Factor	Year	Engineering & Design	& Land Richts	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
	0	2	S		Authorstration & Inspection	& inspection	Contingency	Construction	S
	•	S	3	3	3 8	2	<b>3</b>	<b>9</b>	
- 000 - 000	1961	\$30.000	<b>S</b> 45 000	2 5	<b>3</b>	<b>3</b>	<b>3</b>	<b>9</b>	
1.027	1998	S112 970	900		3	<b>\$</b>	2	9	295 000
1.065	5	258 010	3	005,824	\$12,688	2	2	<b>3</b>	\$155.017
	TOTAL	\$200.000	SAS ON	007,004	\$36,653	\$68,557	\$369,155	\$1,476,621	\$2.066.278
			200'00	270,104	\$51,339	\$60,557	\$369,155	\$1,476,621	\$2,316,293
Miedon	Fiscal	Lecustrustru	O. S. C.					•	į
Factor	Year	) See	5 8						
- 68	2000	\$25.55R	C)	9390					
1.112	2001	\$28.233	\$ \$	256					
1147	2002	\$26.965		900					
1.173	2003	527 683		Ve					
1205	2002	\$28 A30	<b>4410 Bess</b>	/80 <b>%</b>					
1.236	2005	\$29,198	200.01	\$003 \$640					
1.271	2006	\$29,986	3	B100					
1.305	2007	\$30,798	3	4000					
134	2006	\$31,627	2 5	6670					
1.277	2009	\$32,481	\$87.450						
1.414	2010	\$33,358	S	4707					
1.452	2011	\$34,259	ន	472					
1.491	2012	\$35,184	3	6.746					
1,532	2013	\$36.134	8 5	07/4					
1.573	2014	\$37,109	\$144 708	00/4					
1.615	2015	\$38,111	5	007					
1.659	2018	\$39 140	3						
7	2517	ACP UT		878¢					
1.750	2018	\$41.282		ZCB4		,	:		
1.797	2019	\$42,397	3 5	\$4875					
	Total	\$666 113	4123 A26	2000					

### Coastal Wetlands Conservation and Restoration Plan Poat List VI

### Oaks/Avery Canals Hydrologic Restoration increment 1 (XTV-25-f)

		;	23
Series Construction Weers.	3	Total Project Years	3
	7.38%	Amortiization Factor	0.0971616
merosi kako		÷ • • • • • • • • • • • • • • • • • • •	en 287 700
Total First Costs	\$1,364,500	Total Fully Funded Costs	25'10C'70

	Present	Average
Annuel Charges		
	\$1,420,800	\$138,000
	\$242,800	\$23,000 \$11.700
O & M Costs	\$120,200	\$500
Other Costs		
1	\$1,788,900	\$173,800
		192
Average Annual Habitat Units		
;		\$905
Cost Per Habitat Unit		
Average Armal Acres of Emergent Marsh	;	8

D-52

Cost amortized over twenty years

#### Coastal Wetlands Conservation and Restoration Plan Priority Project List Vi

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### Oaks/Avery Canals Hydrologic Restoration Increment 1 (XTV-25-1)

#### First Costs and Annual Charges

Year 5					o major de la como		adalasa.		Chart Coat	Total Clark
<b>₹</b>		Fiscal	Engineering	<b>Easements</b>	OCCUPATION OF	Engineering Easements Supervision & Supervision & upervision	LDEI VIBRUII		100 mm	loral rirst
<b>∞</b> → ·		Year	& Design	Land Right	Land RightsAdministration dministration	dministration		Contingency	Inspection Contingency Construction	Cost
∢ ,	Compound		2	3	<b>%</b>	0\$	0 <b>\$</b>	<b>9</b>	<b>0\$</b>	0\$
•	Compound		<b>%</b>	<b>3</b>	<b>%</b>	<b>9</b>	<b>%</b>	<b>3</b>	3	<b>\$</b>
?	Compound	1997	\$30,000	\$65,000	<b>%</b>	<b>9</b>	<b>3</b>	<b>3</b>	<b>3</b>	\$95,000
8	Compound	1998	\$71,333	<b>%</b>	\$22,941	\$6,706	<b>3</b>	<b>3</b>	<b>3</b>	\$100,980
-	Compound	1999	\$35,667	2	\$42,059	\$26,294	\$65,000	\$187,250	\$749,000	\$1,105,270
	Base Year									
		TOTAL	\$137,000	\$65,000	\$65,000	\$33,000	\$65,000	\$187,250	\$749,000	\$749,000 \$1,301,250
		Fiered	Monthoring	N¥0	Š					
Year		Year	Costs	3	\$ 50°					
-	Discount	2000	\$23,593	2						
2	Discount	2001	\$23,593	3						
3	Discount	2002	\$23,593	2						
4	Discount	2003	\$23,593	<u>\$</u>	\$200					
ω	Discount	2004	\$23,593	\$92,000	\$200					
80	Discount	2006	_	<b>S</b>	\$500					
1	Discount	2008	\$23,593	<b>3</b>	\$200					
∞	Discount	2007	\$23,593	<b>\$</b>	\$200					
6	Discount	2008	\$23,593	<b>\$</b>	\$500					
2	Discount	2008	\$23,593	<b>249</b> ,000	\$200					
Ξ	Discount	2010	\$23,593	<b>2</b>	\$200					
12	Discount	2011	\$23,593	<b>%</b>	\$200					
13	Discount	2012	\$23,593	<b>3</b>	\$500					
4	Discount	2013	\$23,593	<b>3</b>	\$200					
15	5 Discount	2014	\$23,593	\$92,000	\$200					
9	Discount	2015	\$23,593	8	\$200					
17	Discount	2016	\$23,593	<b>\$</b>	\$200					
18	S Olscount	2017	\$23,593		\$500		:			
19	Discount	2018	\$23,593	<b>S</b>	\$200					
20	) Discount	2019	\$23,593	<b>\$</b>	\$200					
		Total	\$471,860	\$233,000	\$10,000	1_				

D-53

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### Coastal Wellands Conservation and Restoration Plan Priority Project List VI

### Oaks/Avery Canals Hydrologic Restoration increment 1 (XTV-25-1)

Prisert Value	Valued Coats		Yotal Discouries Costs	ried Costs	\$1,788,633		:	. Amortized Casts.	٠ ٢	\$1/3,816
					Federal	LONR				
	Compound	Hece	Engineering	Easements	Engineering Easements Supervision & Supervision &	Supervision &	_		First Cost	Total First
× ×	Rathe		& Design	Land Rights	Land RightsAdministration dministration	drainistration		inspection Conlingency Construction	Construction	Set
	1427		S	9	2	<b>9</b>		2	8	<b>2</b>
ə <b>•</b>	125.	•	S	S	3	3	<b>3</b>	2	2	<b>9</b>
₹ (	1.30	2 5	27 170	Can 489	\$ 5	S	Ş	2	2	\$117,607
7	1.28	1881	951,156		676 AE0	£7.73	S	S	3	\$116.424
~	2. 1.53 5. 1.53	1996	\$82,245	2 :	004,024	257,70	201.000	0304060	C404 230	\$1 188 784
•	1.074	1999	\$38,297	2	\$45,161	\$28,233	20A./84	\$201,000	2007	
	1	Total	\$157,679	\$80,466	\$71,610	\$35,966	\$68,794	\$201,060	\$504,239	\$1.420.614
	Discount	Fiscal	Monttoring	OBM	Other					
Year	1	Year	Costs	Coats	Costs					
		2000	\$21,973	3	<b>\$468</b>					
• •	2 0.887	2007	\$20,463	2	<b>3</b>					
	0.800	2002	\$19,058	2	7					
7	4 0.752	2003	\$17.749	20	\$376					
	6 0.701	ğ	\$16,530	\$64,457	\$360					
7	6 0.663	2006		2	\$326					
, (	-7 0.608	2006		<b>\$</b>	••					
•	99990	2007		<b>3</b>	••					
•	-9 0.527	2002	-•	2						
7	0.491	2008	•	\$24,053						
7	11 0.457	2010	\$10,788	<b>.</b>	••					
7	-12 0.426	2011	\$10,045	<b>3</b>	\$213					
7	13 0.397	2012	\$9,365	<b>3</b>	\$198					
٣	-14 0.369	2013	\$8,712		_					
7	15 0.344	2014	1 \$8,114	\$31,640	_					
7	16 0.320	2015	5 \$7,567	<b>*</b>	\$160	_				
7	-17 0.298	2016	80'7\$	<b>*</b>	<b>5149</b>	_				
7	16 0.278	2017	<b>\$8,554</b>			_				
``		2018	\$ \$6,104	<b>3</b>						
''	.20 U.241	2018		5	:		<b>:</b>	<u> </u>		:
		Total	\$242,822	2 \$120,150	0 \$5,146	-				
	•		, e	. 644.674	A CEON	_				
	Average Annual		280,23			-				

Cost amortized ever twenty years

#### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

### Oaks/Avery Canals Hydrologic Restoration Increment 1 (XTV-254)

Tall Funded Costs			I Chest Carlo	الملهاء الله والسمام المهاو	27.13 CF.74	\$ \$ 2		State (Joseph Control	e.	ZC0':07.Z
					Federal	LDNR				
	Inflation	Fiscal	Engineering	Easements	Engineering Easements Supervision & Supervision &	Supervision &	upervision		First Cost	<b>Total First</b>
Year	Factor	Year	& Design	Land Rights	Land RightsAdministration dministration	dministration	Inspection	Inspection Contingency Construction	Construction	Š
9		0	2	2	<b>\$</b>	<b>9</b>	<b>2</b>	0	3	2
•		0	<b>%</b>	<u>\$</u>	<b>9</b>	<b>2</b>	<b>9</b>	<b>&amp;</b>	2	3
es	000	1997	\$30,000	\$65,000	<b>%</b>	2	S	<b>\$</b>	2	\$95,000
~	1.027	1998	\$73,259	<b>\$</b>	\$23,560	\$6,667	<b>\$</b>	<b>%</b>	2	\$103,708
-	1.056	1999	\$37,619	<b>%</b>	\$44,361	\$27,733	\$68,557	\$197,498	\$789,992	\$1,165,760
	ľ	TOTAL	\$140,878	\$65,000	\$67,921	\$34,620	\$68,557	\$197,498	\$789,992	\$1,364,467
	Inflation	Fiscal	Monitoring	OGM	Other					
Year	Factor	Year	Costs	Costs	Costs					
-	1.083	2000	\$25,558	<b>\$</b>	\$542					
7	1.112	2001	\$26,233	2	\$656					
Ġ	1.1:3	2002	\$26,955	2	\$571					
.4	1.173	2003	\$27,683	90	\$507				,	
Ģ	1.205	2004	\$28,430	\$110,862	\$603					
φ	1.238	2002	\$29,198	2	\$619					
-1	1.271	2008	\$29,986	<b>&amp;</b>	\$835					
9	1.305	2007	\$30,798	<b>&amp;</b>	\$663					
æ	1.341	2008	\$31,627	<b>S</b>	••					
9	1.377	2008	\$32,481	\$67,459	\$69\$					
÷	1.414	2010	\$33,358	육	2107					
<b>1</b> -	1.452	2011	\$34,269	<b>\$</b>	\$726					
5	1.491	2012	\$35,184	<b>\$</b>						
41-	1.532	2013	\$36,134	<b>않</b>	\$766					
-15	1.673	2014	\$37,109	\$144,706	\$786					
<b>9</b> -	1.615	2015	\$38,111	<b>\$</b>	\$808					
11.	1.669	2016	\$39,140	<b>\$</b>	\$829					
.18	-	2017	•	2	\$852					
6;-	1.750	2018			\$875					
97	767.	ZÜİB	342,337		200	•		••		
			1	6222 A2R	15					

#### Coasts! Wetlands Conservation and Restoration Plan Priority Project List VI

#### Myrtle Grave Siphon Enlargement (PBA-48)

Project Construction Years:	m	Total Project Years	23
Interest Rate	7.38%	Amoritization Factor	0.0971616
Total First Costs	437,999,500	Total Fully Funded Costs	<b>\$39,580,300</b>

	Present Worth	Average
Amuai Chaiges		
Control of the contro	\$40.087.800	000'388'89
	6303.500	<b>♦</b> 29,600
Monitoring	6267,600	\$26,000
Other Costs	45,100	009€
		42 851
Total	<b>64</b> 0,664,000	0001166164
		1 022
Average Annual Habitat Units		
		270 64
Cost Per Habitat Unit		840'7
Average Annual Acres of Emergent Marsh		

Page 1

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## Myrtle Grove Siphon Enlargement (PBA-48)

First Costs and Annual Charges

					Federal	LDNR				
		Fiscal	Engineering	Easements	Supervision &	Supervision &	Supervision		First Cost	<b>Total First</b>
Year		Year	& Design	& Land Rights	Administration	Administration	& Inspection	Contingency	Construction	Cost
ص	Compound		<b>•</b>	Ç	•	<b>့</b>	<b>2</b>	0	0\$	0
₹	Compound		<b>•</b>	<b>•</b>	<b>2</b>	<b>Q</b>	<b>\$</b>	<b>•</b>	<b>Q</b>	<b>Q</b>
m	Compound	1997	4297,186	41,544,833	<b>\$22,536</b>	<b>418,726</b>	•	<b>•</b>	0	<b>\$1,883,281</b>
7	Compound	1998	4985,930	\$7,724,167	<b>\$270,426</b>	<b>\$224,712</b>	<b>•</b>	<b>Q</b>	<b>Q</b>	<b>\$9,205,235</b>
-	Compound	1999	•	9	\$180,284	<b>\$165,808</b>	4354,935	44,915,578	<b>+19,662,313</b>	\$25,278,919
	Base Year									
,		TOTAL	41,283,116	49,269,000	<b>\$473,246</b>	\$409,246	<b>\$354,93</b> 5	<b>\$4,915,578</b>	<b>\$19,662,313</b>	636,367,438
		Fiscal	Monitoring	OEM	Other					
Year		Year	Costs	Costs	Costs					
-	Discount	2000	<b>\$29,492</b>	\$26,000	<b>\$</b> 200					
7	Discount	2001	<b>\$29,492</b>	\$26,000	\$500					
က	Discount	2002	<b>\$29,492</b>	\$26,000	\$200					
4	Discount	2003	\$29,492	\$26,000	<b>\$</b> 200					
മ	Discount	2004	<b>\$29,492</b>	\$26,000	\$500					
9	Discount	2005	<b>\$29,492</b>	\$26,000	<b>\$</b>					
1	Discount	2006	<b>\$29,492</b>	\$26,000	\$500					
∞	Discount	2007	<b>\$29,492</b>	\$26,000	<b>\$</b> 200					
တ	Discount	2008	129,492	\$26,000	\$500					
9	Discount	2009	<b>\$29,492</b>	\$26,000	\$200					
=	Discount	2010	<b>\$29,492</b>	\$26,000	\$500					
12	Discount	2011	\$29,492	\$26,000	\$500					
13	Discount	2012	<b>\$29,492</b>	\$26,000	\$500					
4	Discount	2013	\$29,492	\$26,000	<b>\$</b> 500					
15	Discount	2014	\$29,492	\$26,000	\$200					
16	Discount	2015	\$29,492	\$26,000	\$500					
17	Discount	2016	\$29,492	\$26,000	\$500					
18	Discount	2017	\$29,492	\$26,000	\$500					
9	Discount	2018	\$29,492	\$26,000	\$500					
70	Discount	2019	\$29,492	\$26,000	\$500					
		Total	\$589,840	\$520,000	\$10,000					

Page 2

Myrtle Grove Siphon Enlargement (PBA-48)

Total   Fiscal   Engineering	7	Present Valued Costs									
Compound         Fiscal         Engineering         Esementis         Supervision & Administration & Engineering         Engineering         Esementis         Supervision & Administration & Engineering         First Loss           1,427         0         40					1	Federal	LDNR			•	
National Plates   Vear   & Design & Land Rights Administration Administration Contrigency   1.427   0   40   40   40   40   40   40   40		Composind	Fiscal	Engineering	Easements	Supervision &	Supervision &	Supervision		First Cost	Total First
1.427   0   40   40   40   40   40   40   40	Veav	Rates	Year	& Design	& Land Rights	Administration	Administration		Contingency	Construction	
1.325   0   10   10   10   10   10   10   10		100	1	Ş	0.5	0	•	2	2	2	2
1.236   1987   4387,997   41,912,466   427,898   423,182   40   40   40     1.123   1989   41,138,717   68,906,433   431,118   4528,019   40   40     1.123   1989   41,138,717   68,906,433   431,118   45,278,102   421,112,409     1.123   1989   41,138,717   68,906,438   431,111   46,278,102   421,112,409     1.074   1204   41,136,717   48,906,438   4460,238   4381,111   46,278,102   421,112,409     1.087   2001   425,80   422,81   4434     0.808   2002   425,80   422,81   4434     0.808   2002   425,80   422,80   431,00   4336     0.752   2003   422,83   41,302   431,00     0.663   2003   41,322   411,306   4246     0.663   2007   416,891   413,704   4213     0.654   2010   413,442   411,309   4218     0.655   2011   412,48   410,309   4189     0.389   2013   410,891   49,942   41189     0.380   2016   41,437   41,712   41,29     0.380   2016   41,437   41,712   41,29     0.278   2016   41,437   41,712   41,29     0.278   2016   41,437   41,723   41,89     0.278   2017   48,193   47,723   41,29     0.278   2018   41,69   42,756   41,49     0.278   2018   41,69   42,756   41,49     0.278   2018   41,69   42,756   41,49     0.278   2018   41,69   42,756   41,49     0.278   2018   41,69   42,756   41,49     0.278   2018   41,69   42,756   41,49     0.278   2018   41,69   42,756   41,49     0.278   2018   41,69   42,756   41,49     0.278   2018   42,756   41,49     0.278   2018   42,756   41,49     0.278   2018   42,756   42,756   41,40     0.278   2018   42,756   42,756   41,40     0.278   2018   42,756   42,756   41,40     0.278   2018   42,756   42,756   42,756     0.278   41,40   42,756   42,756   42,756     0.278   2018   42,756   42,756   42,756     0.278   2018   42,756   42,756     0.278   2018   42,756   42,756     0.278   2018   42,756   42,756     0.278   42,756   42,756     0.289   42,756   42,756     0.289   42,756   42,756     0.289   42,756   42,756     0.289   42,756   42,756     0.289   42,756     0.289   42,756     0.289   42,756     0.289   42,756     0.289   42,756     0.289   42,756     0.289	۰ ۵	77.	•	\$	9	0	2	•	<b>•</b>	<b>9</b>	•
1,153   1999   41,136,717   86,1006,433   4311,1786   4269,079   40   40   11,12,409   41,136,717   86,1006,433   4311,111   46,278,102   421,112,409   41,136,717   41,126,409   41,136,717   41,126,409   41,136,717   41,126,409   41,136,717   41,126,409   41,136,717   41,126,409   41,136,717   41,126,409   41,136,717   41,126,409   41,136,717   41,126,409   41,136,717   41,126,409   41,136,717   41,126,409   41,136,717   41,126,409   41,136,717   41,126,409   41,136,717   41,126,409   41,137   41,137   41,137   41,138   41,137   41,138   41,137   41,138   41,137   41,138   41,137   41,138   41,137   41,138	4 (	1.329		4287 907	41 912 455	\$27.898	\$23,182	<b>9</b>	<b>2</b>	<b>2</b>	<b>#2,331,442</b>
1.074   1999   1.184   1999   1.184   1999   1.184   1999   1.184   1999   1.184   1999   1.184   1999   1.184   1999   1.184   1.18		1.238	1000	100'100A	40 905 493	4311 785	\$259.079	2	<b>Q</b>	•	\$10,613,075
1.01	7 •	1.153	9661	(1,001.14 (4)	0	<b>\$193,580</b>	\$178,036	4381,111	<b>\$5,278,102</b>	121,112,409	<b>\$27,143,239</b>
Discount         Fiscal         Monitoring         O&M         Other           Costs         Year         Costs         Costs         Costs           Costs         Year         Costs         4466           Costs         2000         427,456         424,214         4466           Costs         2001         427,650         422,551         4434           Costs         2002         423,823         410,02         4404           Costs         2003         422,187         419,560         4356           Costs         2004         420,441         418,66         4356           Costs         2006         417,922         416,806         4364           Costs         2006         417,922         416,806         422,64           Costs         2006         417,922         416,800         4246           Costs         2006         414,477         412,76         4246           Costs         2009         414,477         412,76         4246           Costs         2010         414,477         412,76         4245           Costs         2011         41,477         412,76         4245           Costs	-			<b>\$1,504,624</b>	410,817,948	\$533,263	4460,298	4381,111	<b>\$5,278,102</b>	\$21,112,409	<b>\$4</b> 0,087,756
Rates         Vear         Costs         Costs         Costs           0.831         2000         427,466         924,514         4466           0.867         2001         425,680         422,551         4466           0.762         2002         423,823         \$21,002         4404           0.763         2003         423,823         \$21,002         4404           0.701         2004         420,683         \$18,244         \$16,560         4326           0.663         2006         417,922         416,960         4304         \$104         \$104           0.666         2006         417,922         416,960         4244         \$10,444         \$10,444         \$10,444         \$10,444         \$12,763         \$12,84         \$10,444         \$12,763         \$12,84         \$10,444         \$12,763         \$12,84         \$10,444         \$12,763         \$12,84         \$10,444         \$12,763         \$12,84         \$10,100         \$13,44         \$10,100         \$13,44         \$10,100         \$13,84         \$10,300         \$13,88         \$10,89         \$10,89         \$10,89         \$10,89         \$10,89         \$10,89         \$10,99         \$10,89         \$10,89         \$10,89         \$10,89<		Discount	Fiscal	Monitoring	0&M	Other					
0.931         2000         \$27,466         \$24,214         \$466           0.867         2001         \$25,680         \$22,561         \$434           0.868         2002         \$25,681         \$434         \$434           0.762         2003         \$23,823         \$21,002         \$406           0.763         2004         \$20,663         \$18,216         \$436           0.069         2005         \$119,244         \$16,961         \$304           0.057         \$2006         \$115,244         \$14,716         \$283           0.057         \$2006         \$115,644         \$13,704         \$256           0.057         \$2006         \$115,644         \$13,704         \$256           0.057         \$2006         \$115,644         \$13,704         \$256           0.0491         \$2009         \$14,477         \$12,763         \$226           0.0457         \$2019         \$11,694         \$10,309         \$198           0.0457         \$2019         \$11,694         \$10,309         \$198           0.037         \$10,891         \$9,401         \$126         \$148           0.350         \$2013         \$10,891         \$1,706         \$148	Year		Year	Costs	Costs	Costs					
0.867 2001 425,680 422,561 4434 0.808 2002 422,823 421,002 4404 0.752 2003 422,187 419,680 4376 0.701 2004 420,663 418,216 4376 0.668 2005 417,922 416,965 4326 0.668 2006 417,922 416,965 4326 0.668 2006 417,922 416,965 4283 0.668 2006 417,922 416,965 4283 0.669 2006 417,922 416,965 4283 0.667 2008 416,691 414,715 4283 0.457 2008 416,644 413,704 4284 0.457 2008 416,644 413,704 4284 0.457 2010 413,482 411,070 4213 0.397 2011 413,482 411,070 4198 0.397 2012 411,694 410,309 4198 0.398 2014 410,143 48,942 4175 0.309 2015 48,797 410,309 4149 0.298 2016 48,797 47,756 4139 0.259 2018 47,630 46,727 4129 0.241 2019 47,630 46,727 4129 0.241 2019 47,630 46,727 4129 0.241 2019 47,630 46,727 4129 0.241 2019 47,630 46,727 4129 0.241 2019 47,630 46,727 4129 0.241 2019 47,630 46,727 4129 0.241 2019 47,630 46,727 4129			2000	\$27,486	\$24,214	<b>*</b> 466					
0.808 2002 \$23,823 \$421,002 \$4404 0.752 2003 \$622,187 \$419,560 \$4376 0.763 2004 \$120,683 \$418,216 \$4350 0.668 2006 \$119,244 \$416,965 \$4326 0.668 2007 \$416,991 \$414,716 \$4283 0.627 2008 \$114,716 \$4283 0.457 2009 \$114,77 \$412,783 \$4245 0.457 2010 \$413,704 \$413,704 \$4213 0.426 2011 \$412,684 \$410,309 \$4198 0.397 2012 \$411,694 \$410,309 \$4198 0.397 2013 \$410,891 \$49,601 \$4185 0.344 2014 \$410,143 \$48,942 \$4172 0.359 2016 \$48,797 \$47,776 \$4149 0.298 2016 \$48,797 \$47,756 \$4149 0.278 2017 \$48,93 \$47,725 \$4139 0.278 2017 \$48,193 \$47,223 \$4139 0.278 2017 \$48,193 \$47,223 \$4139 0.279 \$2018 \$47,630 \$46,727 \$4129 0.279 \$2018 \$47,630 \$46,727 \$4129 0.279 \$2018 \$47,630 \$46,727 \$4129 0.279 \$2018 \$47,630 \$46,727 \$4129 0.279 \$2018 \$47,630 \$46,727 \$4129 0.279 \$2019 \$47,630 \$46,727 \$4129 0.279 \$2019 \$47,630 \$46,727 \$4129 0.279 \$2019 \$47,630 \$46,727 \$4129 0.279 \$2019 \$47,630 \$46,727 \$4129 0.279 \$2019 \$47,630 \$46,727 \$4129 0.279 \$2019 \$47,630 \$46,727 \$4129 0.279 \$2019 \$47,630 \$46,727 \$4129 0.279 \$2019 \$47,630 \$46,727 \$4129 0.279 \$2019 \$47,630 \$46,727 \$4129			2001	<b>\$25,580</b>	<b>+22,551</b>	1434					
0.752         2003         \$22,187         \$19,660         \$376           0.701         2004         \$20,663         \$18,216         \$350           0.663         2006         \$19,244         \$16,965         \$326           0.666         2006         \$17,924         \$16,691         \$304           0.666         2007         \$16,691         \$14,716         \$283           0.627         2008         \$15,644         \$13,704         \$264           0.457         2008         \$14,477         \$12,783         \$246           0.457         2010         \$13,482         \$11,886         \$229           0.457         2011         \$12,566         \$11,070         \$213           0.457         2012         \$11,694         \$10,309         \$198           0.369         2013         \$10,891         \$9,601         \$186           0.369         2013         \$10,143         \$8,342         \$116           0.370         \$2016         \$8,446         \$8,328         \$160           0.389         2014         \$10,143         \$8,328         \$160           0.380         2016         \$8,466         \$6,326         \$120	1 17		2002	\$23,823	<b>\$21,002</b>	4404					
0.701         2004         \$20,663         \$18,216         \$350           0.653         2005         \$19,244         \$16,965         \$326           0.608         2006         \$17,922         \$16,965         \$304           0.608         2006         \$17,922         \$16,964         \$283           0.657         2007         \$16,644         \$12,704         \$264           0.457         2008         \$14,477         \$12,763         \$245           0.4591         2008         \$14,477         \$12,763         \$246           0.4507         2010         \$13,482         \$11,886         \$229           0.457         2010         \$13,482         \$11,070         \$213           0.397         2012         \$11,694         \$10,309         \$198           0.399         2013         \$10,091         \$185         \$160           0.344         2014         \$10,143         \$9,601         \$186           0.329         2015         \$9,466         \$172         \$172           0.298         2016         \$8,193         \$7,223         \$139           0.299         2018         \$7,630         \$6,265         \$129	7		2003	422,187	\$19,560	<b>\$376</b>					
0.663 2006 619,244 616,965 6326 0.608 2007 617,922 415,800 6304 0.566 2007 616,691 614,715 6283 0.657 2008 615,644 613,704 6264 0.657 2009 614,477 612,763 6229 0.457 2010 613,482 611,886 6229 0.456 2011 612,566 611,070 6213 0.397 2012 611,694 610,309 6198 0.398 2013 610,891 69,601 6185 0.344 2014 610,309 6198 0.359 2016 68,797 67,758 6129 0.278 2017 68,193 67,223 6139 0.278 2018 67,223 6139 0.278 67,726 66,727 6129 0.241 2019 67,630 66,727 6129 0.241 2019 67,630 66,727 65,146  Total 629,482 65,146 65,146	ķ		2004	\$20,663	<b>\$18,216</b>	<b>†320</b>					
0.608 2006 #17,922 #16,800 #304 0.666 2007 #16,691 #14,715 #283 0.657 2008 #16,691 #14,715 #264 0.451 2008 #11,447 #12,763 #245 0.457 2010 #13,704 #229 0.426 2011 #13,704 #10,309 #198 0.397 2012 #11,886 #229 0.398 2013 #10,191 #9,601 #185 0.344 2014 #10,193 #9,942 #172 0.309 2015 #8,797 #7,768 #149 0.278 2016 #8,797 #7,768 #129 0.278 2017 #8,193 #7,723 #129 0.278 2018 #7,630 #6,727 #129 0.241 2019 #7,630 #6,727 #129 0.241 2019 #7,630 #6,727 #129 0.241 2019 #7,630 #6,727 #129 0.241 2019 #7,630 #6,727 #129	ф		2005	119,244	<b>\$16,965</b>	#326					
0.566 2007 \$16,691 \$14,715 \$283 0.657 2008 \$15,644 \$13,704 \$264 0.491 2009 \$14,477 \$12,763 \$245 0.457 2010 \$13,482 \$11,886 \$12,99 0.426 2011 \$12,566 \$11,070 \$13,800 0.397 2012 \$11,694 \$10,309 \$198 0.397 2013 \$11,694 \$10,309 \$198 0.344 2014 \$10,143 \$8,942 \$172 0.342 2015 \$19,601 \$185 0.344 2014 \$10,143 \$19,601 \$185 0.320 2015 \$19,46 \$13,28 \$160 0.298 2016 \$1,756 \$149 0.278 \$2016 \$1,756 \$149 0.278 \$2017 \$1,06 \$1,20 \$129 0.241 \$1,106 \$1,20 \$120 0.241 \$1,06 \$1,20 \$120 0.241 \$1,06 \$1,20 \$120 0.241 \$1,06 \$1,20 \$120 0.241 \$1,06 \$1,20 \$120 0.241 \$1,06 \$1,20 \$120 0.241 \$1,06 \$1,20 \$120 0.241 \$1,06 \$1,20 \$120 0.241 \$1,06 \$1,20 \$120 0.241 \$1,06 \$1,20 \$120 0.241 \$1,06 \$1,20 \$120 0.241 \$1,06 \$1,06 \$1,00 \$1,00 \$10			2006	417,922	<b>\$15,800</b>	•					
0.627 2008 615,644 613,704 6264 0.491 2009 614,477 612,763 6245 0.457 2010 613,482 611,886 6229 0.426 2011 612,556 811,070 6213 0.397 2012 811,694 810,309 6198 0.369 2013 810,891 89,601 6185 0.344 2014 810,143 88,942 8172 0.34 2016 88,737 87,756 8149 0.298 2016 88,737 87,756 8139 0.259 2018 87,630 86,723 8139 0.259 2018 87,630 86,727 8129 0.259 2018 87,106 86,265 85,146  Total \$\pmathrm{\pm	•		2007	<b>\$16,691</b>	<b>414,715</b>	•					
0.491 2009 414,477 412,763 4245 0.467 2010 413,482 411,886 4229 0.426 2011 412,566 411,070 4213 0.397 2012 411,694 410,309 4198 0.369 2013 410,891 49,601 4185 0.344 2014 410,143 48,942 4172 0.320 2015 49,46 48,328 4160 0.298 2016 48,797 47,756 4149 0.278 2017 48,193 47,223 4139 0.259 2018 47,630 46,727 4129 0.241 2019 47,106 46,265 45,146  Total \$303,536 4267,595 45,146	ģ	,	2008	<b>\$15,544</b>	<b>\$13,704</b>	\$264					
0.457 2010 \$13,482 \$11,886 \$629 0.426 2011 \$12,556 \$11,070 \$213 0.397 2012 \$11,694 \$10,309 \$198 0.369 2013 \$10,891 \$9,601 \$185 0.34 2014 \$10,143 \$8,942 \$172 0.320 2016 \$8,797 \$7,756 \$149 0.278 2017 \$8,193 \$7,756 \$149 0.278 2018 \$7,23 \$139 0.259 2018 \$7,60 \$6,727 \$129 0.241 2019 \$7,106 \$6,265 \$1,146 Total \$303,536 \$267,595 \$5,146	-10		2009	414,477	<b>\$12,763</b>	<b>\$24</b> 5					
0.426 2011 \$12,556 \$11,070 \$213 0.397 2012 \$11,694 \$10,309 \$198 0.369 2013 \$10,891 \$9,601 \$185 0.344 2014 \$10,143 \$8,942 \$172 0.342 2014 \$10,143 \$8,942 \$172 0.320 2016 \$8,797 \$7,756 \$149 0.278 2017 \$8,193 \$7,756 \$149 0.259 2018 \$7,756 \$139 0.259 2018 \$7,106 \$6,265 \$120 0.241 \$2019 \$7,106 \$6,265 \$120 0.241 \$303,536 \$267,695 \$6,146	-		2010	<b>\$13,482</b>	<b>\$11,886</b>	<b>†</b> 229					
0.397 2012 #11,694 #10,309 #198 0.369 2013 #10,891 #9,601 #185 0.344 2014 #10,143 #8,942 #172 0.320 2016 #8,797 #7,756 #149 0.298 2016 #8,797 #7,756 #149 0.259 2018 #7,630 #6,723 #139 0.259 2018 #7,106 #6,265 #120 0.241 2019 #7,106 #6,265 #120 Total #303,536 #26,7696 #5,146	.12		2011	112,556	<b>\$11,070</b>	<b>\$213</b>					
0.369 2013 \$10,891 \$9,601 \$185 0.344 2014 \$10,143 \$8,942 \$172 0.320 2015 \$9,446 \$8,328 \$160 0.298 2016 \$8,737 \$7,756 \$149 0.278 2017 \$8,193 \$7,723 \$139 0.259 2018 \$7,630 \$6,727 \$129 0.241 2019 \$7,106 \$6,265 \$120 Total \$303,536 \$26,769 \$5,146	-13		2012	<b>\$11,694</b>	<b>\$10,309</b>	<b>\$198</b>					
0.344 2014 \$10,143 \$8,942 \$172 0.320 2015 \$9,446 \$8,328 \$160 0.298 2016 \$8,737 \$7,756 \$149 0.278 2017 \$8,193 \$7,223 \$139 0.259 2018 \$7,203 \$129 0.241 2019 \$7,106 \$6,265 \$120 Total \$303,536 \$267,595 \$5,146	-14		2013	<b>\$10,891</b>	109,601	<b>\$185</b>					
0.320 2015 \$9,446 \$8,328 \$160 0.298 2016 \$8,797 \$7,756 \$149 0.278 2017 \$8,193 \$7,223 \$139 0.259 2018 \$7,630 \$6,727 \$129 0.241 2019 \$7,106 \$6,265 \$120 Total \$303,536 \$267,595 \$5,146	- 1		2014	<b>\$10,143</b>	\$8,942	•					
0.298 2016 \$8,797 \$7,756 \$149 0.278 2017 \$8,193 \$7,223 \$139 0.259 2018 \$7,630 \$6,727 \$129 0.241 2019 \$7,106 \$6,265 \$120 0.241 \$303,536 \$267,595 \$5,146  Total \$303,536 \$26,000 \$66,000	- 1-		2015	19,446	<b>\$8,328</b>	•	_				
0.278 2017 \$8,193 \$7,223 \$139 0.259 2018 \$7,630 \$6,727 \$129 0.241 2019 \$7,106 \$6,265 \$120 Total \$303,536 \$267,595 \$5,146	. [		2016	\$8,797	<b>\$7,758</b>	•	_				
0.259 2018 \$7,630 \$6,727 \$129 0.241 2019 \$7,106 \$6,265 \$120 Total \$303,536 \$267,595 \$5,146 Brage Annual \$29,482 \$25,000 \$560	. ב		2017	\$8,193	47,223	•	_				
0.241 2019 \$7,106 \$6,265 \$120 Total \$303,536 \$267,595 \$5,146 Brage Annual \$28,482 \$2000 \$5000	5.		2018	47,630	46,727						
Total #303,536 #267,595 #5,146  Brage Annual #28,492 #28,000 #500	20		2019	<b>\$7,106</b>	<b>\$6,265</b>		اء				
erage Annual #29.492 #26.0000 LEGG	í	: •		\$303,536	<b>\$267,595</b>						
obil projections and the fact that the fact		Average Annu	len	<b>\$29,482</b>							
		1				OC sould be similar		ife			Page 3

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## Myrde Grove Siphon Enlargement (PBA-48)

Fully Fu	Fully Funded Coets	•	Total Fully Fund	ended Coss	130,580,318			Amortized Costs		13,846,687
					Federal	LDNR				
	Inflation	Fiscal	Engineering	Easements	Supervision &	Supervision &	Supervision		First Cost	<b>Total First</b>
Year	Factor	Year	& Design	& Land Rights	Administration	Administration	& Inspection	Contingency	Construction	Cost
٢		0	5	<b>Q</b>	0	0\$	0\$	•	•	<b>Q</b>
4		• •	2	•	<b>Q</b>	•	<b>•</b>	<b>Q</b>	<b>Q</b>	•
,	500	1997	\$297.186	\$1.544.833	\$22,536	<b>\$18,726</b>	<b>Q</b>	•	•	<b>\$1,883,281</b>
3 6	1 022	1998	61,012,550	47,932,719	4277,728	\$230,779	•	•	<b>9</b>	<b>\$9,453,776</b>
. –	1.055	1999	0	•	<b>#190,151</b>	1174,883	<b>\$374,360</b>	<b>\$5,184,6</b> 03	\$20,738,412	<b>\$26,662,408</b>
	1	TOTAL	<b>\$1,309,736</b>	<b>\$9,477,553</b>	4490,414	\$424,388	<b>\$374,360</b>	<b>\$5,184,603</b>	\$20,738,412	<b>\$37,999,466</b>
	Inflation	Fiscat	Monitoring	O&M	Other					
Year	Factor	بر <b>۲</b>	Costs	Costs	Costs					
-	1.083	2000	\$31,946	\$28,163	\$542					
· 7	1.112	2001	<b>432,792</b>	<b>\$28,910</b>	<b>\$</b> 556					
ņ	1.142	2002	<b>433,694</b>	<b>\$29,705</b>	<b>#</b> 211					
7	1.173	2003	134,604	<b>\$30,507</b>	<b>#287</b>					
φ	1.205	2004	<b>\$35,538</b>	<b>431,330</b>	<b>\$603</b>					
φ	1.238	2005	<b>\$36,498</b>	<b>\$32,176</b>	<b>\$619</b>					
-7	1.271	2008	<b>\$37,483</b>	<b>\$33,045</b>	<b>\$635</b>					
<b>- e</b> p	1.305	2007	\$38,495	<b>\$33,937</b>	<b>\$653</b>					
o o	1.341	2008	<b>\$39,63</b> 6	\$34,854	<b>+670</b>					
-10	1.377	2009	<b>\$40,602</b>	<b>\$35,795</b>	<b>\$688</b>					
7	1.414	2010	441,698	\$36,761	<b>\$707</b>					
-12	1.462	2011	\$42,824	\$37,754	\$726					
	1.491	2012	<b>\$43,981</b>	<b>\$38,773</b>	<b>\$746</b>					
-14	1.532	2013	<b>\$45,168</b>	\$39,820	<b>\$</b> 166					
-15	1.573	2014	<b>\$46,388</b>	\$40,895	<b>\$186</b>					
-16	1.615	2015	\$47,640	\$41,999	<b>\$808</b>					
-17	1.659	2016	<b>\$48,926</b>	\$43,133	\$829					
-18	1.704	2017	\$50,247	\$44,298	•					
-19	1.750	2018	\$51,604	\$45,494						
-20	1.797	2019	<b>\$52,997</b>	\$46,722						
		Total	\$832,663	\$734,071	\$14,117					

Page 4

#### Channel Armor Gap West (XMR-10b)

First Costs and Annual Charges

Year	•								
	180	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	<b>Total First</b>
J	Year	& Deskan	& Land Rights	Administration	Administration Administration & Inspection	& Inspection	Contingency	Construction	Cost
		3	2	2	2	2	<b>\$</b>	2	0\$
Compound	1997	\$25,000	\$99,000	3	2	2	3	3	\$124,000
Compound	199	\$199 200	3	\$25,600	\$22,400	<b>9</b>	2	<b>2</b>	\$247,200
Compound	1999	249 800	S	\$38.400	\$33,600	\$73,000	\$337,250	\$1,349,000	\$1,881,050
Compound	2000	3	<b>.</b>	\$16,000	\$26,000	\$73,000	\$337,250	\$1,349,000	\$1,801,250
Base Year		•	•						
1	TOTAL	\$274,000	000'68\$	000'08\$	\$82,000	\$146,000	\$674,500	\$2,698,000	<b>77</b> ,053,500
	Fiscal	Monttoring	O&M	Other					
Year	Year	Costs	Costs	Costs					
Discount	2001	\$9,831	2	\$200	1				
Discount	2002	\$9,831	<b>\$</b>	\$200					
Discount	2003	\$9,831	<b>\$</b>	\$200					
1 Discount	2007	\$9,831	<b>S</b>	\$200					
Discount	2005	\$9,631	\$	\$200					
Discount	2006	\$9,831	<b>\$</b>	\$200					
7 Discount	2007	\$9,631	<b>\$</b>	\$200	•				
3 Discount	2008	\$9,831	<b>\$</b>	\$200					
Discount	2009		<b>\$</b>	\$200	_				
Discount	2010	\$9,831	<b>\$</b>	\$200	_				
1 Discount	2011		<b>\$</b>	\$200	_				
12 Discount	2012	\$9,831	<b>\$</b>	\$200	_				
	2013		2	\$200	_				
_	2014	1 \$9,831	<b>\$</b>	\$200					
15 Discount	2015	-	2	\$200	_				
16 Discount	2016	1 \$9.A31	9	\$500	_				
_	2017		<b>\$</b>	\$200	_				
18 Discount	2018		<b>3</b>	\$200	•				
19 Discount	2019		<b>S</b>	\$200	_				
20 Discount	2020		25		ر دا				
•	Total	\$196,620	<b>9</b>	\$10,000	6				

Costs amortized over 20 year operation life

#### Channel Armor Gap West (XMR-10b)

		<b>}</b>								
					Federal	LONR				
	Compound	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Year	Rates	Year	& Design	& Land Rights	Administration	Administration Administration & Inspection	& Inspection	Contingency	Construction	Cost
2	1.427	0	3	<b>3</b>	<b>0\$</b>	<b>9</b>	<b>%</b>	<b>3</b>	9	0\$
4	1.329	1997	\$33,232	\$131,598	<b>\$</b>	<b>\$</b>	<b>%</b>	2	<b>3</b>	\$164.829
6	1.238	1998	\$246,603	<b>\$</b>	\$31,692	\$27,730	<b>\$</b>	<b>3</b>	3	\$306.026
8	1.153	1999	\$57,418	2	\$44,273	\$38,739	\$84,165	\$388,829	\$1,555,315	\$2,168,736
-	1.074	2000	<b>\$</b>	<b>\$</b>	\$17,180	\$27,918	\$78,384	\$362,122	\$1,448,489	\$1,934,092
		Total	\$337,251	\$131,598	\$93,145	\$94,387	\$162,548	\$750,951	\$3,003,804	\$4,573,683
	Discount	Fiscal	Monttoring	OSM	Oither					
Year	Rates	Year	Costs	Costs	Costs					
7	0.931	2001	\$9,156	0\$	\$466					
?	0.867	2002	\$8,527	<b>\$</b>	\$434					
	0.806	2003	\$7,941	<b>\$</b>	<b>\$40</b>					
7	0.752	2004	\$7,396	<b>\$</b>	\$376					
ဟု	0.701	2002	\$6,888	Ş	\$350					
φ	0.653	2008	\$6,415	<b>\$</b>	\$326					
-1	0.608	2007	\$5,974	05	<b>\$</b> 30 <b>4</b>					
₽,	0.566	2008	\$5,564	<b>3</b>	\$283					
ė.	0.527	2009	\$5,182	S	\$284					
우	0.491	2010	\$4,826	2	\$245					
÷	0.457	2011	\$4,494	<u>\$</u>	\$228					
-12	0.426	2012	\$4,186	<b>S</b>	\$213					
-13	0.397	2013	\$3,898	<b>\$</b>	\$198					
+	0.369	2014	\$3,630	<b>≈</b>	\$185					
-15	0.344	2015		<b>S</b>	\$172					
-16	0.320	2016	\$3,149	<b>%</b>	\$160					
1,7	2.296	2017	\$2,933	0\$	\$148			3		
÷.	0.278	2018	\$2,731	<b>%</b>	\$139					
-19	0.259	2019	\$2,544	<b>S</b>	\$129					
-50	0.241	2020	\$2,369		\$120	1				
		Total	\$101,182	05	85 14R	•				

\$200

0**\$** 

\$9,831

Average Annual

Page 3

#### Channel Armor Gap West (XMR-10b)

Fully F	Fully Funded Costs		Total Fully Fun	Fully Funded Costs	<b>44</b> ,612,554		•	Amortized Costs	<b>s</b>	\$448,163
>	Inflation Fador	Fiscal	Engineering & Design	Easements & Land Rights	Federal Supervision & Administration	Federal LDNR gineering Easements Supervision & Supervision Design & Land Rights Administration Administration & Inspection Confingency	Supervision & Inspection	Contingency	First Cost Construction	Total First Cost
	- Della		40	S	95	2	2	2	0\$	3
ი •	•	1904	200	200 000	3	<b>.</b> 3	3	2	<b>\$</b>	\$124,000
4	30.		200,024		*00 00*	900 669	•	•	Ş	4253 A74
•	1.027	199 <del>8</del>	\$204,578	2	\$26,291	COO'574	2			10,000
, ,	1.055	400	\$52.526	3	\$40,502	\$35,430	\$76,995	\$355,707	\$1,422,829	\$1,983,998
•	1.003	2006	05	<b>S</b>	\$17,331	••	\$79,074	\$365,311	\$1,481,246	\$1,951,128
-		TOTAL	\$282,104	000'66\$	\$84,124	\$86,607	\$156,069	\$721,019	\$2,884,075	\$4,312,998
	ı	·		1000	2					

Other	Costs	\$558	\$571	\$587	\$603	\$619	\$635	\$653	\$670	<b>\$686</b>	\$707	\$726	\$746	\$766	\$786	<b>\$</b> 80 <b>9</b>	\$829	\$852	\$875	\$699	\$823	\$14,498
08M	Costs	3	<b>3</b>	2	<b>\$</b>	<b>3</b>	8	<b>\$</b>	2	<b>3</b>	<b>9</b>	<b>\$</b>	2	<u>\$</u>	<b>\$</b>	<b>3</b>	<b>\$</b>	Ş	<b>9</b>	<b>3</b>	<b>S</b>	<b>3</b>
Monitoring	Costs	\$10,931	\$11,232	\$11,535	\$11,847	\$12,166	\$12,495	\$12,832	\$13,179	\$13,535	\$13,900	\$14,275	\$14,661	\$15,057	\$15,463	\$15,881	\$16,309	\$18 750	\$17,202	\$17,666	\$18,143	\$265,058
Fiscal	Year	2001	2002	2003	2004	2005	2006	2007	2008	2000	2010	2011	2012	2013	2014	2015	2016	2600	2018	2019	2020	Total
Inflation	Factor	1.112	1 142	1.173	1 205	1.238	1.271	1305	1.341	1377	1414	1.452	1491	1 532	1.573	1615	1.659	100	1.750	1 797	1.846	!
	Year	-		٠.	4	, rů	<b>4</b>	,	ج ،	9	, פר	=	: 6	: 5	7	4	4	17	4	5 5	200	2

Costs amortized over 20 year operation life

### Lake Boudreaux (TE-7f) - Alternative A

24	0.0971616	\$11,592,900
Total Project Years	Amoritization Factor	Total Fully Funded Costs
4	7.38%	\$7,549,100
Project Construction Years:	Interest Rate	Total First Costs

Annual Charges Interest & Amortization Monitoring O & M Costs	Fresent Worth \$7,588,600 \$303,500 \$1,115,300	Average Annual \$737,300 \$29,500 \$108,400
Other Costs Total	\$5,100	\$875,700
Average Annual Habitat Units		308
Cost Per Habilat Unit		\$2,843
Average Annual Acres of Emergent Marsh		235

D-63

#### Lake Boudreaux (TE-7f) - Alternative A

First Costs and Annual Charges

	i.			Federal					; ;
Xoox	Fiscal	Engineering Posing	Easements  1 and Dights	Supervision &	Supervision & Supervision Administration & Lospertion	Supervision	Continuo	First Cost	Total First
-	164	The second	O Land Augus	AGITHUSHIGHOL		d mspeciion	Commigency	Construction	Cost
2 Compound		2		2	⊋ .	2	2	2	2
Compound	1997	<b>\$</b>	<b>S</b>	<b>\$</b>	<u>Ş</u>	<b>≎</b>	<b>\$</b>	<u>\$</u>	<b>3</b>
3 Compound	1998	\$30,000	\$120,000	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	\$150,000
2 Compound	1999	\$505,000	<b>≎</b>	\$118,500	\$50,000	<b>\$</b>	<b>9</b>	<b>\$</b>	\$673,500
Compound	2000	<b>\$</b>	<b>\$</b>	\$118,500	\$64,000	\$70,000	\$1,183,750	\$4,735,000	\$6,171,250
Base Year				-		000			
	TOTAL	\$535,000	\$120,000	\$237,000	\$114,000	\$70,000	\$1,183,750	\$4,735,000	\$6,994,750
	Fiscal	Monitoring	O&M	Other				,	
Year	Year	Costs	Costs	Costs					
Discount	2001	\$29,492	\$59,000	\$500					
2 Discount	2002	\$29,492	\$59,000	\$200					
Discount	2003	\$29,492	\$59,000	\$200					
Discount	2004	\$29,492	\$59,000	\$200					
Discount	2002	\$29,492	\$59,000	\$200					
Discount	2006	\$29,492	\$59,000	\$200					
Discount	2007	\$29,492	\$59,000	\$200					
Discount	2008	\$29,492	\$59,000	\$200					
Discount	2009	\$29,492	\$59,000	\$200					
Discount	2010	\$29,492	\$1,094,000	\$200					
Discount	2011	\$29,492	\$59,000	\$200					
12 Discount	2012	\$29,492	\$59,000	\$200					
3 Discount	2013	\$29,492	\$59,000	\$200					
4 Discount	2014	\$29,492	\$59,000	\$200					
15 Discount	2015	\$29,492	\$59,000	\$200					
16 Discount	2016	\$29,492	\$59,000	\$200					
Discount	2017	\$29,492	\$59,000	\$200					
18 Discount	2018	\$29,492	\$59,000	\$200					
19 Discount	2019	\$29,492	\$59,000	\$200					
20 Discount	2020	\$29,492	\$59,000	\$200					
	Total	\$589,840	\$2,215,000	\$10,000					

D-64

3/14/97

Page 2

### Lake Boudreaux (TE-7f) - Alternative A

Prese	Present Valued Costs		Total Discounted Costs	ad Costs	\$9,012,549			Amortized Costs	S	\$875,674
	,	i			Federal	LDNR				
Year	Compound	Fiscal Year	Engineering & Desion	Easements & Land Rights	Supervision & Administration	Supervision & Supervision & Supervision Administration Administration Administration & Inspection	Supervision & Inspection		First Cost	Total First
5	1.427	0	90	S	95	9	S S S S S S S S S S S S S S S S S S S	Commigancy	Constituction	COSI
4	1.329	1997	<b>9</b>	<b>S</b>	<b>S</b>	<b>S</b>	3 5	3 5	2	<u> </u>
e	1.238	1998	\$37,139	\$148,556	<b>S</b>	S	9	3 5	Q .	\$0 \$105 505
7	1.153	1999	\$582,234	\$	\$136.623	\$57,647	<b>S</b>	3 5	2	\$160,093 \$775
-	1.074	2000	\$0	<b>\$</b>	\$127,239	\$68,720	\$75.163	\$1 271 052	\$5 084 206	\$6.626.380
	<b>-</b>	Total	\$619,373	\$148,556	\$263,863	\$126,367	\$75,163	\$1,271,052	\$5,084,206	\$7,588,579
	Discount	Fiscal	Monitoring	O&M	Other					
Year	Rates	Year	Costs	Costs	Costs					
₹	0.931	2001	\$27,466	\$54,948	\$466					
.5	0.867	2002	\$25,580	\$51,174	\$434					
ė,	0.808	2003	\$23,823	\$47,659	\$404					
4	0.752	2004	\$22,187	\$44,385	\$376					
ċ	0.701	2005	\$20,663	\$41,337	\$350					
Ģ	0.653	.2006	\$19,244	\$38,498	\$326					
-5	0.608	2007	\$17,922	\$35,853	\$304					
æ	0.566	2008	\$16,691	\$33,391	\$283					
ō.	0.527	2009	\$15,544	\$31,097	\$264					
<del>.</del>	0.491	2010	\$14,477	\$537,014	\$245					
<u>-</u>	0.457	2011	\$13,482	\$26,972	\$229					
-12	0.426	2012	\$12,556	\$25,120	\$213					
-13	0.397	2013	\$11,694	\$23,394	\$198					
-14	0.369	2014	\$10,891	\$21,788	\$185					
-15	0.344	2015	\$10,143	\$20,291	\$172					
-16	0.320	2016	\$9,446	\$18,897	\$160					
-17	0.298	2017	\$8,797	\$17,599	\$149					
-18	0.278	2018	\$8,193	\$16,391	\$139					
-19	0.259	2019	\$7,630	\$15,265	\$129					
-20	0.241	2020	\$7,106	\$14,216	\$120					
	To	Total	\$303,536	\$1,115,288	\$5,146					
	Average Annual	- -	\$29,492	\$108,363	\$500					

Fully F	Fully Funded Costs		Total Fully Fun	Fully Funded Costs	\$11,592,922		-	Amortized Costs	s	\$1,126,387
					Federal	LDNR				
	Inflation	Fiscal	Engineering	gineering Easements	Supervision &	Supervision & Supervision & Supervision	upervision		First Cost	Total First
Year		Year	& Design	& Land Rights	Administration	Design & Land Rights Administration Administration & Inspection Contingency	I Inspection	Contingency	Construction	Cost
5	İ	0	05	0\$	9	<b>≎</b>	0\$	<b>%</b>	0 <b>\$</b>	<b>\$</b>
4	1 000	1997	<b>9</b>	<b>S</b>	<b>9</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>S</b>
	1 027	1998	\$30.810	\$123.240	<b>9</b>	<b>9</b>	<b>\$</b>	<b>\$</b>	\$	\$154,050
, .	1.055	1999	\$532,638	05	\$124,985	\$52,736	<b>\$</b>	<b>\$</b>	<b>S</b>	\$710,360
	1.083	2000	0\$	<b>\$</b>	\$128,360	\$69,325	\$75,824	\$75,824 \$1,282,246	\$5,128,984	\$6,684,739
•	1	TOTAL	\$567 44R	\$123.240	\$253 345	\$122,062	\$75.824	\$1,282,246	\$5,128,984	\$7,549,149

Other	Costs	\$556	\$571	\$587	\$603	\$619	\$635	\$653	\$670	\$688	\$707	\$726	\$746	\$766	\$786	\$808	\$829	\$852	\$875	\$899	\$923	\$14,498
08M	Costs	\$65,603	\$67,407	\$69,227	\$71,096	\$73,016	\$74,987	\$77,012	\$79,091	\$81,226	\$1,546,796	\$85,672	\$87,985	\$90,361	\$92,800	\$95,306	\$97,879	\$100,522	\$103,236	\$106,023	\$108,886	\$3,174,130
Monitoring	Costs	\$32,792	\$33,694	\$34,604	\$35,538	\$36,498	\$37,483	\$38,495	\$39,535	\$40,602	\$41,698	\$42,824	\$43,981	\$45,168	\$46,388	\$47,640	\$48,926	\$50,247	\$51,604	\$52,997	\$54,428	\$855,145
Fiscal	Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Total
Inflation	Factor	1.112	1.142	1.173	1.205	1.238	1.271	1.305	1.341	1.377	1.414	1.452	1.491	1.532	1.573	1.615	1.659	1.704	1.750	1.797	1.846	·
	Year	-	-	. tj	4	, rċ	φ		æ	ģ	. 6	÷	-15	. <del>.</del>	-14	.15	91.	-17	. 8	61.	-50	i

D-66

### Lake Boudreaux (TE-7f) - Alternative B

24	0.0971616	\$9,831,300
Total Project Years	Amoritization Factor	Total Fully Funded Costs
₹	7.38%	\$6,415,300
Project Construction Years:	Interest Rate	Total First Costs

Average	\$627,300 \$29,500 \$87,200 \$500	\$744,500	422	\$1,764	325
Present Worth	\$6.456,500 \$303,500 \$897,300 \$5,100	\$7,662,400			
Annual Charges	Interest & Amortization Monitoring O & M Costs Other Costs	Total	Average Annual Habitat Units	Cost Per Habitat Unit	Average Annual Acres of Emergent Marsh

D-67

#### Lake Boudreaux (TE-7f) - Alternative B

#### First Costs and Annual Charges

	First Cost Total First	Contingency Construction Cost	0	\$0 \$0	\$150.0	\$0 \$97,500	Ä		\$993,000 \$3,972,000 \$5,946,000																							
	Supervision	& Inspection	<b>9</b>	<b>S</b>	<b>\$</b>	<b>\$</b>	\$70,000		\$70,000																							
LDNR	Supervision & Supervision	Administration	<b>\$</b>	<b>\$</b>	<b>9</b>	\$50,000	\$64,000		\$114,000																							
Federal	Supervision &	Administration Administration & Inspection	0 <b>\$</b>	<b>\$</b>	<b>0\$</b>	\$99,500	\$99,500		\$199,000	Other	Costs	\$500	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$500	\$500	\$200	\$200	\$10,000
	Easements	& Land Rights	0\$	<b>\$</b>	\$120,000	<b>\$</b>	<b>\$</b> 0		\$120,000	O&M	Costs	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$29,000	\$59,000	\$59,000	\$650,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$29,000	\$1,771,000
	Engineering	& Design	<b>9</b>	<b>\$</b>	\$30,000	\$448,000	<b>\$</b>		\$478,000	Monitoring	Costs	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$589,840
	Fiscal	Year		1997	1998	1999	2000		TOTAL	Fiscal	Year	2001	2002	2003	2004	2002	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Total
		อเ	5 Compound	4 Compound	3 Compound	2 Compound	1 Compound	Base Year			ar	1 Discount	2 Discount	3 Discount	4 Discount	5 Discount	6 Discount	7 Discount	8 Discount	9 Discount	10 Discount	11 Discount	12 Discount	13 Discount	14 Discount	15 Discount	16 Discount	7 Discount	18 Discount	19 Discount	20 Discount	1.0
		Year						ļ			Year										_	_	_	_		_	_	_	_	_	7	

D-68

3/14/97

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### Lake Boudreaux (TE-7f) - Alternative B

Prese	Present Valued Costs		Total Discounted Costs	ad Costs	\$7,662,488			Amortized Costs	8	\$744,500
					Federal	LDNR				
;	Ö	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	<b>Total First</b>
Year	¥3	Year	& Design	& Land Rights	Administration	Administration Administration & Inspection	& Inspection	Contingency	Construction	Cost
S	1.427	0	<b>\$</b>	<b>S</b>	<b>9</b>	<b>%</b>	<b>0\$</b>	<b>9</b>	0 <b>5</b>	0\$
4	1.329	1997	<b>\$</b>	<b>≎</b>	<b>\$</b>	S S	<b>0\$</b>	<b>9</b>	<b>9</b>	<b>S</b>
e	1.238	1998	\$37,139	\$148,556	<b>%</b>	<b>\$</b>	<b>0\$</b>	<b>\$</b>	. <b>S</b>	\$185,695
2	1.153	1999	\$516,517	0\$	\$114,717	\$57,647	<b>9</b>	<b>S</b>	. <b>S</b>	\$688,881
-	1.074	2000	<b>%</b>	<b>0\$</b>	\$106,838	\$68,720	\$75,163	\$1,066,234	\$4,264,935	\$5,581,889
		Total	\$553,656	\$148,556	\$221,556	\$126,367	\$75,163	\$1,066,234	\$4,264,935	\$6,456,466
	Discount	Fiscal	Monitoring	08M	Olher					
Year	Rates	Year	Costs	Costs	Costs					
T.	0.931	2001	\$27,466	\$54,948	\$466					
ې 6-6	0.867	2002	\$25,580	\$51,174	\$434					
ه ښ	0.808	2003	\$23,823	\$47,659	\$404					
4-	0.752	2004	\$22,187	\$44,385	\$376					
ċ.	0.701	2005	\$20,663	\$41,337	\$350					
9-	0.653	2006	\$19,244	\$38,498	\$326					
1-	0.608	2007	\$17,922	\$35,853	\$304					
<b>6</b> -	0.566	2008	\$16,691	\$33,391	\$283					
6-	0.527	2009	\$15,544	\$31,097	\$264					
-10	0.491	2010	\$14,477	\$319,067	\$245					
-11	0.457	2011	\$13,482	\$26,972	\$229					
-12	0.426	2012	\$12,556	\$25,120	\$213					
-13	0.397	2013	\$11,694	\$23,394	\$198					
-14	0.369	2014	\$10,891	\$21,788	\$185					
-15	0.344	2015	\$10,143	\$20,291	\$172					
-16	0.320	2016	\$9,446	\$18,897	\$160					
-17	0.298	2017	\$8,797	\$17,599	\$149					
-18	0.278	2018	\$8,193	\$16,391	\$139					
-19	0.259	2019	\$7,630	\$15,265	\$129					
-20	0.241	2020	\$7,106	\$14,216	\$120					
	<del>-</del>	Total	\$303,536	\$897,341	\$5,146					

\$500

\$87,187

\$29,492

Average Annual

Amortized Costs \$955,225		ingency Construction Cost	0\$ 0\$ 0\$	0\$ 0\$ 0\$	\$0 \$154,050	\$0 . \$0 \$630,201	075,624 \$4,302,497 \$5,631,050	64 202 407
Amoi	upervision	Design & Land Rights Administration Administration & Inspection Contingency	9 <b>5</b>	<b>9</b>	<b>9</b>	<b>%</b>	\$75,824 \$1,075,624	€75 924 €1
	Federal LDNR Supervision & Supervision	Administration 8	o <b>\$</b>	0 <b>\$</b>	<b>9</b>	\$52,736	\$69,325	€ 122 AB2
\$9,831,306	Federal Supervision &	Administration	o <b>\$</b>	<b>\$</b>	<b>\$</b>	\$104,946	\$107,779	4212 72K
Fully Funded Costs	Easements	& Land Rights	<b>0\$</b>	<b>\$</b>	\$123,240	<b>\$</b>	<b>\$</b>	C122 240
Total Fully Fun	Engineering	& Design	<b>9</b>	<b>\$</b>	\$30,810	\$472,519	<b>9</b>	¢503 330
	Fiscal	Year	0	1997	1998	1999	2000	TOTAL
Fully Funded Costs	Inflation	Factor		1.000	1.027	1.055	1.083	T
Fully Fr		Year	5	4	က	7	-	

Other	Costs	\$556	\$571	\$587	\$603	\$619	\$635	\$653	\$670	\$688	\$707	\$726	\$746	\$766	\$786	\$808	\$829	\$852	\$875	\$899	\$923	\$14,498
08M	Costs	\$65,603	\$67,407	\$69,227	\$71,096	\$73,016	\$74,987	\$77,012	\$79,091	\$81,226	\$919,029	\$85,672	\$87,985	\$90,361	\$92,800	\$95,306	\$97,879	\$100,522	\$103,236	\$106,023	\$108,886	\$2,546,363
Monitoring	Costs	\$32,792	\$33,694	\$34,604	\$35,538	\$36,498	\$37,483	\$38,495	\$39,535	\$40,602	\$41,698	\$42,824	\$43,981	\$45,168	\$46,388	\$47,640	\$48,926	\$50,247	\$51,604	\$52,997	\$54,428	\$855,145
Fiscal	Year	2001	2002	2003	2004	2002	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Total
Inflation	Factor	1.112	1.142	1.173	1.205	1.238	1.271	1.305	1.341	1.377	1.414	1.452	1.491	1.532	1.573	1.615	1.659	1.704	1.750	1.797	1.846	ĭ
	Year	-	-5	ç	4	ئ	Ģ		8	6	2	=	12	5	4	5	16	17	18	10	20	

Costs amortized over 20 year operation life

Page 4

# Coastal Wetlands Conservation and Restoration Plan Priority Project List VI Lafourche Dedicated Dradging Increment 1(CW-6!) One-Six Inch Aquamog SRX-109

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Project Construction Years:		Total Project Years	23
Interest Rate	7.36%	Amoritization Factor	0.0971616
Total First Costs	\$868,600	Total Fully Funded Costs	\$8,163,100

	Present	Average
Annual Charges		
	\$977,900	\$95,000
micros e Amorazanom Afanitarina	\$50,700	008.44 000.626
O & M Costs	\$2,603,200	00\$
Other Costs	DOL'CO.	
-	\$3,636,900	\$353,300
		027
Average Annual Habitat Units		
•		\$2,718
Cost Per Hebital Unit		
Average Annual Acres of Emergent Marsh		254

## Lafourche Dedicated Bredging Increment 1(CW-8I)

First Costs and Amuel Charges

2 S S S S S S S S S S S S S S S S S S S	\$0 \$0 \$0 \$0 \$0 \$0 \$2,585 \$2,585 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$2,585 \$2,585 \$0 \$2,585 \$13,585 \$0 \$2,585 \$13,585 \$0 \$5,180 \$16,180 \$0 \$500 \$500 \$500 \$500 \$500 \$500 \$500	\$2,595 \$2,595 \$0 \$2,595 \$13,595 \$0 \$2,595 \$13,595 \$0 \$5,190 \$16,190 \$0 \$500 \$500 \$500 \$500 \$500 \$500 \$500	\$2,585 \$2,585 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,585 \$0 \$0 \$2,585 \$0 \$0 \$13,585 \$0 \$0 \$13,585 \$0 \$0 \$18,180 \$18,180 \$18,180 \$18,180 \$18,180 \$18,000 \$18,0	\$2,585 \$2,585 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,585 \$0 \$0 \$13,585 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$2,585 \$2,585 \$0 \$2,585 \$13,585 \$0 \$2,585 \$13,585 \$0 \$5,180 \$18,180 \$0 \$500 \$16,180 \$0 \$500 \$500 \$500 \$500 \$500 \$500 \$500 \$500 \$500 \$500 \$500 \$500 \$500 \$500 \$500 \$500
\$5,190 \$16,190 \$0 Other Costs \$500 \$500 \$500	\$5,190 \$16,190 \$0 Other Coats \$500 \$500 \$500 \$500	\$5,180 \$16,190 \$0  Other Costs \$500 \$500 \$500 \$500 \$500 \$500 \$500 \$50	\$5,190 \$16,190 \$0  Other Coats \$500 \$500 \$500 \$500 \$500 \$500 \$500 \$50	\$5,190 \$16,190 \$0  Coats \$500 \$500 \$500 \$500 \$500 \$500 \$500 \$50	55,190 \$16,190 \$0  Coats \$500 \$500 \$500 \$500 \$500 \$500 \$500 \$50	55,190 \$16,190 \$0  Coats Coats \$500 \$500 \$500 \$500 \$500 \$500 \$500 \$50
Coppe	Conti	0000	000			
		, w		-	-	
				- ·		

4/10/97

## Lafourche Dedicated Dredging increment 1(CW-6)

Compound Compound Year Rates 5 1.427 4 1.329	Zea Yea	Total Discounted Costs Engineering Essen & Design & Land \$0 \$0	Costs  Essements  Land Rights  \$0	\$3,637,012 Federal Supervision & Administration \$0 \$0	\$3,637,012  Federal LDNR Supervision & Supervision Administration Administration & Inspection \$0 \$0 \$0 \$0 \$0 \$0 \$0	Supervision & Inspection \$0 \$0	Amortized Costs Contingency \$0 \$0 \$0	First Cost Construction \$0	\$353,378 Total First Cost \$0 \$433.289
1.236 1.153 1.074	1997 1998 1999 Total	\$123,787 \$172,941 \$0 \$296,736	\$308,492 \$0 \$0 \$309,492 O&M	\$2,992 \$2,982 \$2,786 \$5,778 Other	\$2,992 \$14,598 \$17,590	S S S	0\$ 0\$ 099'89\$ 099'89\$	\$0 \$278,638 \$276,638	\$178,925 \$365,682 \$977,895
0.867 0.006 0.752 0.701 0.006 0.506 0.527 0.467 0.369 0.349 0.320	2000 2001 2002 2003 2003 2006 2009 2009 2010 2011 2012 2015							·	
0.259 0.241 Tob Average Annual	78		25.	ä	a clara				

4/10/97

## Lafouriche Dedicated Dredging Increment 1(CW-6i)

ully F	Fully Funded Costs		Total Fully Funded Costs	ided Costs	\$9,163,106			Amortized Costs		\$793,140
					Federal	LDNR				
¥ ear	Inflation Factor	Fiscal	Engineeding & Deslan	Essements & Land Rights	Supervision & Administration	Supervision & Supervision & Supervision Administration Administration Administration & Inspection	Supervision & Inspection	Contingency	First Cost	Total First
2		0	8	2	2		S		S	5
•		0	2	<b>\$</b>	2	<b>3</b>	8	8	S	9
•	1.000	1997	\$100,000	\$250,000	2	3	3	<b>3</b>	S	\$350,000
~	1.027	1996	\$154,050	2	\$2,865	\$2.865	3	3	<b>S</b>	\$159.380
-	1.055	1990	<b>\$</b>	<b>\$</b>	\$2,737	\$14,339	2	\$66.426	\$273.702	\$359.204
	Ĭ	TOTAL	\$254,050	\$250,000	\$5,402	\$17,004	3	\$68,426	\$273,702	\$868,584
	Inflation	Fiscal	Monitoring	OBM	Other					
Year	Factor	Year	Coets	Costs	Costs					
7	1.063	2000	\$5,339	\$273,981	\$542					
ż	1.112	2001	\$5,481	\$281,241	\$558					
ů	1.142	2002	\$5,631	\$288,978	\$571					
7	1.173	2003	\$5,783	\$298,778	\$587					
Ģ	1.205	2004	\$5,940	\$304,791	\$603					
φ	1.238	2005	\$6,100	\$313,020	\$619					
-	1.271	2006	\$6,265	\$321,472	\$635					
9	1.305	2007	\$6,434	\$330,151	\$653					
9	1.341	2008	\$6,607	\$339,066	\$670					
÷	1.377	2009	\$6,786	\$346,220	2666					
Ę	1.414	2010	698'9\$	\$357,622	2003					
-12	1.452	2011	\$7,157	\$367,278	\$726					
-13	1.491	2012	\$7,350	\$377,195	\$746					
+	1.532	2013	\$7,549	\$387,379	\$166					
-15	1.573	2014	\$7,753	\$397,838	\$706					
-16	•	2015	\$7,962	\$408,580	\$00\$					
	4-05	2048		\$419,611	\$828					
<del>1</del> 8	•	2017	\$6,398	\$430,941	\$852		÷			÷
-19	1.750	2018	\$8,625	\$442,578	\$875					
90	1.797	2019		\$454,526	669\$					
	_	Total	\$139,163	\$7,141,242	\$14,117	1				

Costs amortized over 20 year operation life

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#### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI Lafourche Dedicated Dredging Increment 2(CW-8ii) One-Eight Inch Aquamog SRX-109

	0.0971616	\$8,441,200
Fotal Project Years	Anordization Factor	Total Fully Funded Costs
•	7.38%	\$1,030,600
Project Construction Years:	Inferest Rate	Total First Costs

Average	\$111,900 \$4,900 \$257,100 \$500	\$374,400	195	\$1,920	379
Present	\$1,151,800 \$50,700 \$2,845,600 \$5,100	\$3,853,200			sh
Arrusal Charges	Interest & Amortization Monitoring O & M Costs Other Costs	Total	Average Annual Habitat Units	Cost Per Habitat Unit	Average Annual Acres of Emergent Marsh

## Lafourche Dedicated Dredging Increment 2(CW-6H)

First Costs and Annual Charges

				Federal	LDNR				
	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Year	Year	& Design	& Land Rights	Administration	Administration & Inspection	& Inspection	Contingency	Construction	S
S Compressed		2	8	3	3	<b>\$</b>	<b>9</b>	2	<b>2</b>
4 Compound		3	3	2	2	<b>\$</b>	2	8	<b>3</b>
1 Compound	1907	\$100,000	\$250,000	8	2	<b>\$</b>	<b>\$</b>	<b>3</b>	\$350,000
		\$232,000	2	\$3,167	\$3,167	<b>%</b>	2	<b>&amp;</b>	\$238,334
_	_	2	2	\$3,167	\$14,167	<b>\$</b>	\$79,175	\$316,700	<b>413,209</b>
Base Year	. 1		000	700 04	647 994		£70 17E	4316 700	41 001 643
	TOTAL	<b>\$</b> 332,000	\$250,000	46.334	455,714	<b>?</b>	61.61	On l'oler	240,100,1
	Flacal	Monitoring	OSM	Other					
Year	Year	Costs	Costs	Costs					
1 Discount	2000	\$4,929	\$257,046	2500	ì				
2 Discount	2001	\$4,929	\$257,046	\$200					
3 Discount	2002	£4,929	\$257,046	\$200					
4 Discount	2003	\$4,929	\$257,048	\$200					
5 Discount	2004	••	\$257,046	\$200					
6 Discount	2005	<b>54</b> ,929	\$257,046	\$200					
7 Discount	2006	\$4,929	\$257,046	\$200					
8 Discount	2007	\$4,929	\$257,046						
9 Discount	2008	\$4,829	\$267,046						
10 Discount	2008	\$4,928	\$257,046	\$500	_				
11 Discount	2010	<b>54</b> ,929	\$257,046	\$500	_				
12 Discount	2011	\$4,929	•	_	_				
	2012	<b>54</b> ,929			_				
	2013	£4,929	\$257,046	•	_				
_	2014	\$4,929	••	•	_				
	2015	\$4,929	\$257,046		_		,		
17 Discount	2016	£4,929	\$257,046			,		•	
18 Discount	2017		••		•				
19 Discount	2018	<b>44</b> ,929	\$257,046		-				
_	2019	\$4,929	\$257,046						
	Total	\$98,580	\$5,140,920	\$10,000	_				

## Lafourche Dedicated Dredging Increment 2(CW-6II)

Compound Flacal Engineering Easements States           Year         Rates         Year         & Design         & Land Rights A States           5         1.427         0         \$0         \$0           3         1.238         1987         \$123,797         \$309,492           2         1.153         1988         \$267,482         \$0         \$0           2         1.153         1988         \$267,482         \$0         \$0           2         1.153         1988         \$267,482         \$0         \$0           2         1.153         1988         \$267,482         \$0         \$0           1         1.074         1989         \$267,482         \$0         \$0           2         1.153         1988         \$267,482         \$0         \$0           1         1.074         1989         \$309,492         \$0         \$0         \$0           -1         1.074         Year         Costs         \$200         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0	÷		•	Total Olegania	ę c	43 853 184		•	Amortized Costs	:	\$374,382
Compound         Fiscal         Engineering         Essaering         Engineering         Essaering         LDNR         First Coast         Total Coast         Coast         Coast         Coast         Coast         Coast         Coast         Coast         Coast         Coast         Coast         Coast         Coast         Coast         Coast         Coast         Coast         Coast         State         Spot         Spo	Prese	nt Vakued Coet	<u>•</u>	10th Discounte							
Compound         Flucial         Engineering         Construction         Separation         \$50         \$90						_	LDNR			•	
Vear         Rate of Section         Confined and Confi		pariodaid	Fieral	Findheedna	Easements	Supervision &	Supervision &	Supervision		First Cost	Total First
1,224   1987   1,224   1987   1,224	,		- X	A Deshin	& Land Rights	Administration	Administration	a finspection	Contingency	Construction	- 1
1,229	189		1	5	\$0	8	2	<b>%</b>	<b>\$</b>	<b>9</b>	0.5
4         1.329         190         \$12,397         \$100         \$1	S	1.42/	<b>&gt;</b> (	3	9	S	S		<b>\$</b>	<b>S</b>	<u>\$</u>
3         1 238         1887         \$12,197         \$38,614         \$30,617         \$40         \$60	₹	1.329	>	3			•		3	9	\$433,289
2         1.153         1988         \$267,482         \$0         \$3.651         \$3.1551         \$0         \$3.651         \$3.1551         \$0	e	1.238	1997	\$123,797	\$309,492	3				: 5	C274 785
Total   1974   1989   \$10   \$1,401   \$15,212   \$10,803   \$10,007		1 151	4998	\$267.482	2	<b>\$3,651</b>	<b>\$</b> 3,651				600,4124
Total   \$391,279 \$309,492 \$7,052 \$18,863 \$0 \$85,014 \$340,057	•	4.074	400t	3	8	\$3,401			\$85,014	\$340,057	\$443,563
Discount         Flacel         Monttoring         O&M         Offer           -1         0.931         2000         \$4,580         \$239,391           -2         0.867         2004         \$4,275         \$222,948           -3         0.808         2002         \$3,962         \$222,948           -3         0.808         2002         \$3,962         \$207,635           -4         0.752         2003         \$3,708         \$180,092           -5         0.701         2004         \$3,463         \$180,092           -6         0.853         2005         \$2,218         \$167,723           -7         0.608         2007         \$2,780         \$145,474           -8         0.566         2007         \$2,895         \$135,482           -9         0.527         2008         \$2,895         \$117,510           -10         0.481         2010         \$2,259         \$117,510           -11         0.457         2010         \$2,299         \$106,439           -12         0.A26         2011         \$1,850         \$94,922           -14         0.369         2012         \$1,854         \$10,404           -15<		1	1	\$391,279	\$309,492	\$7,052			\$85,014	<b>\$340,057</b>	/c/'lcl' <b>!\$</b>
Vear Rabes         Year         Costs		i	1	Manifordian	Mac	Offier					
Year Rabes         Year Rabes         Year Rabes         Year Rabes         Year Rabes         Year Rabes         Year Rabes         Year Pear         Cool         \$4,580         \$239,391         Pear         Year         \$29,275         \$42,755         \$222,948         Pear         Pear         Year         \$200         \$23,708         \$193,374         Pear         Pear         Pear         \$200         \$23,708         \$190,092         Pear         Pear         Pear         \$200         \$23,708         \$180,092         Pear         Pear         Pear         \$200         \$23,708         \$180,092         Pear         Pear         Pear         \$200         \$23,218         \$180,092         Pear						Costs					
-1 0.931 2000 \$4,590 \$222,948 -2 0.867 2001 \$4,275 \$222,948 -3 0.808 2002 \$3,962 \$193,374 -5 0.701 2004 \$3,463 \$180,092 -7 0.608 2005 \$1,216 \$167,723 -8 0.568 2007 \$2,790 \$145,474 -9 0.527 2008 \$2,596 \$135,482 -10 0.491 2009 \$2,253 \$117,510 -11 0.457 2010 \$2,253 \$117,510 -12 0.457 2011 \$2,099 \$109,439 -15 0.397 2012 \$1,854 \$101,922 -14 0.369 2013 \$1,859 \$88,402 -15 0.344 2014 \$1,895 \$88,402 -16 0.320 2015 \$1,579 \$80,504 -16 0.278 2017 \$1,369 \$1,1409 -18 0.278 2017 \$1,369 \$1,1409 -19 0.259 2018 \$1,275 \$66,504 -20 0.241 2019 \$1,188 \$61,937 -20 0.241 \$2019 \$1,188	Year	Rate	Year	١	2000	6488	,				
-2         0.867         2004         \$4,275         \$222,948           -3         0.808         2002         \$3,962         \$207,635           -4         0.752         2003         \$3,708         \$180,092           -5         0.701         2004         \$3,463         \$180,092           -6         0.853         2005         \$2,985         \$167,723           -7         0.608         2006         \$2,985         \$165,474           -8         0.566         2007         \$2,780         \$145,474           -9         0.527         2008         \$2,896         \$135,482           -10         0.481         2008         \$106,477           -11         0.457         2010         \$2,598         \$106,439           -12         0.487         2010         \$2,598         \$106,439           -13         0.397         2010         \$2,699         \$106,439           -14         0.369         2012         \$1,859         \$86,402           -15         0.344         2014         \$1,679         \$66,70           -16         0.278         2015         \$1,470         \$76,86           -18         0.278			2000		\$238,381						
-3         0.808         2002         \$3,982         \$207,635           -4         0.752         2003         \$3,708         \$180,092           -5         0.701         2004         \$3,463         \$180,092           -6         0.853         2005         \$2,985         \$167,723           -7         0.608         2006         \$2,985         \$165,474           -8         0.566         2007         \$2,896         \$135,482           -9         0.527         2008         \$2,598         \$135,482           -10         0.481         2008         \$2,598         \$135,482           -11         0.457         2010         \$2,598         \$106,477           -12         0.481         2010         \$2,598         \$106,439           -13         0.397         2010         \$2,699         \$106,439           -14         0.369         2012         \$1,850         \$84,922           -14         0.369         2013         \$1,850         \$84,922           -16         0.320         2015         \$1,579         \$62,330           -16         0.278         2017         \$1,579         \$64,876           -10	7	0.867	2001		\$222,948	\$434					
0.752         2003         \$3,706         \$193,374           0.701         2004         \$3,463         \$180,092           0.653         2005         \$2,216         \$167,723           0.606         2007         \$2,995         \$156,203           0.566         2007         \$2,780         \$145,474           0.527         2008         \$2,596         \$135,482           0.457         2010         \$2,259         \$105,474           0.457         2010         \$2,253         \$117,510           0.457         2010         \$2,253         \$117,510           0.397         2011         \$1,954         \$109,439           0.397         2012         \$1,954         \$101,922           0.344         2014         \$1,895         \$88,402           0.24         2014         \$1,695         \$62,330           0.278         2015         \$1,770         \$76,676           0.278         2017         \$1,389         \$71,409           0.278         2018         \$1,369         \$71,409           0.289         2018         \$1,275         \$66,504           0.241         2019         \$5,000         \$5,045,551 <td>7</td> <td>0.808</td> <td>2002</td> <td></td> <td>\$207,635</td> <td><b>\$</b>40<b>4</b></td> <td></td> <td></td> <td></td> <td></td> <td></td>	7	0.808	2002		\$207,635	<b>\$</b> 40 <b>4</b>					
0.701         2004         \$3,453         \$180,092           0.653         2005         \$2,216         \$167,723           0.606         2006         \$2,995         \$156,203           0.506         2007         \$2,995         \$145,474           0.527         2008         \$2,596         \$135,482           0.457         2010         \$2,259         \$126,177           0.457         2010         \$2,299         \$106,439           0.397         2011         \$1,954         \$10,922           0.344         2013         \$1,820         \$94,922           0.344         2014         \$1,895         \$88,402           0.349         2015         \$1,770         \$76,676           0.290         2015         \$1,770         \$76,676           0.291         \$1,389         \$71,409           0.292         2016         \$1,370         \$76,676           0.292         2017         \$1,389         \$71,409           0.278         2017         \$1,389         \$71,409           0.291         2018         \$1,275         \$66,504           0.241         2019         \$21,88         \$61,937           0.24	, 4	0.752	2003		\$193,374	\$376					
0.653         2005         \$3,216         \$167,723           0.606         2006         \$2,995         \$156,203           0.506         2007         \$2,995         \$156,203           0.527         2008         \$2,790         \$145,474           0.491         2009         \$2,420         \$126,177           0.457         2010         \$2,253         \$117,510           0.426         2011         \$1,954         \$109,439           0.397         2012         \$1,954         \$101,922           0.344         2013         \$1,820         \$94,922           0.344         2014         \$1,895         \$88,402           0.349         2015         \$1,770         \$76,676           0.290         2015         \$1,770         \$76,676           0.290         2016         \$1,399         \$71,409           0.278         2017         \$1,389         \$71,409           0.278         2018         \$1,275         \$66,504           0.241         \$2018         \$1,188         \$61,937           0.241         \$2019         \$20,730         \$26,45,551		5 0 701	2004		\$180,092	<b>\$</b> 320	_				
0.606         2006         \$2,995         \$156,203           0.566         2007         \$2,790         \$145,474           0.567         2008         \$2,790         \$145,474           0.491         2009         \$2,420         \$126,177           0.457         2010         \$2,253         \$117,510           0.426         2011         \$2,099         \$109,439           0.397         2012         \$1,954         \$10,922           0.344         2013         \$1,895         \$84,922           0.344         2014         \$1,895         \$82,330           0.296         2015         \$1,579         \$76,676           0.296         2017         \$1,389         \$71,409           0.278         2017         \$1,389         \$71,409           0.296         2017         \$1,389         \$71,409           0.278         2017         \$1,389         \$71,409           0.278         2018         \$1,275         \$66,504           0.241         \$2018         \$51,380         \$61,937           0.241         \$2019         \$50,730         \$2,645,551	, <b>.</b>	0.653	2005		\$167,723	\$326					
0.566 2007 \$2,780 \$145,474 0.567 2008 \$2,596 \$135,482 0.481 2009 \$2,420 \$126,177 0.487 2010 \$2,253 \$117,510 0.488 2011 \$2,099 \$109,439 0.397 2012 \$1,954 \$101,922 0.348 2014 \$1,895 \$88,402 0.349 2015 \$1,579 \$82,330 0.320 2015 \$1,579 \$82,330 0.296 2016 \$1,470 \$76,676 0.296 2017 \$1,369 \$71,409 0.259 2018 \$1,275 \$66,504 0.241 2019 \$1,188 \$61,937 0.241 \$2019 \$1,188	r '1	2 0.608	2008		\$156,203						
0.527 2008 \$2,596 \$135,482 0.481 2009 \$2,420 \$126,177 0.481 2010 \$2,253 \$117,510 0.426 2011 \$2,089 \$109,439 0.397 2012 \$1,854 \$101,922 0.348 2013 \$1,820 \$94,922 0.349 2014 \$1,895 \$88,402 0.340 2015 \$1,579 \$82,330 0.278 2017 \$1,579 \$71,409 0.278 2017 \$1,369 \$71,409 0.259 2018 \$1,275 \$66,504 0.241 2019 \$1,188 \$61,937 1 Total \$50,730 \$2,645,551	· 7	9050	2007	••	\$145,474		-				
0.481         2009         \$2,420         \$126,177           0.457         2010         \$2,253         \$117,510           0.426         2011         \$2,089         \$109,439           0.397         2012         \$1,854         \$101,922           0.349         2014         \$1,895         \$88,402           0.320         2015         \$1,579         \$82,330           0.296         2015         \$1,470         \$76,676           0.278         2017         \$1,369         \$71,409           0.278         2017         \$1,369         \$71,409           0.278         2017         \$1,369         \$6,504           0.241         2018         \$1,275         \$66,504           0.241         2019         \$1,188         \$61,937           0.241         2019         \$50,730         \$2,645,551	7	0.527	2008				_				
0.457         2010         \$2,253         \$117,510           0.426         2011         \$2,099         \$109,439           0.397         2012         \$1,854         \$101,922           0.349         2014         \$1,895         \$84,922           0.320         2015         \$1,579         \$82,330           0.296         2015         \$1,470         \$76,876           0.278         2017         \$1,369         \$71,409           0.278         2017         \$1,369         \$71,409           0.259         2018         \$1,275         \$66,504           0.241         2019         \$1,188         \$61,937           1 Total         \$50,730         \$2,645,551	· •		2009								
0.426         2011         \$2,099         \$109,439           0.397         2012         \$1,854         \$101,922           0.369         2013         \$1,820         \$94,922           0.344         2014         \$1,885         \$88,402           0.320         2015         \$1,579         \$82,330           0.296         2016         \$1,470         \$76,676           0.276         2017         \$1,369         \$71,409           0.278         2017         \$1,369         \$71,409           0.259         2018         \$1,275         \$66,504           0.241         2019         \$1,188         \$61,937           1 o.241         \$50,730         \$2,645,551	1		2010	••			•				
0.397 2012 \$1,954 \$101,922 0.369 2013 \$1,820 \$94,922 0.344 2014 \$1,695 \$88,402 0.320 2015 \$1,579 \$82,330 0.296 2016 \$1,470 \$76,676 0.278 2017 \$1,369 \$71,409 0.259 2018 \$1,275 \$66,504 0.241 2019 \$1,188 \$61,937	· =		2011	••			•				
0.369 2013 \$1,820 \$94,922 0.344 2014 \$1,695 \$88,402 0.320 2015 \$1,579 \$82,330 0.296 2017 \$1,369 \$71,409 0.278 2017 \$1,369 \$71,409 0.259 2018 \$1,275 \$66,504 0.241 2019 \$1,188 \$61,937	-		2012		•		•				
0.344 2014 \$1,695 \$88,402 0.320 2015 \$1,579 \$82,330 0.29p 2016 \$1,470 \$76,676 0.278 2017 \$1,369 \$71,409 0.259 2018 \$1,275 \$66,504 0.241 2019 \$1,188 \$61,937 Total \$50,730 \$2,645,551	•		2013				in.				
0.320 2015 \$1,579 \$82,330 0.296 2016 \$1,470 \$76,876 0.278 2017 \$1,369 \$71,409 0.259 2018 \$1,275 \$66,504 0.241 2019 \$1,188 \$61,937 Total \$50,730 \$2,645,551	7		2014				~				
0.29f 2017 \$1,470 \$76,676 0.278 2017 \$1,369 \$71,409 0.259 2018 \$1,275 \$66,504 0.241 2019 \$1,188 \$61,937 Total \$50,730 \$2,645,551	•		201		٠						
0.278 2017 \$1,369 \$71,409 0.259 2018 \$1,275 \$66,504 0.241 2019 \$1,188 \$61,937 Total \$50,730 \$2,645,551	•		200				ø				
0.259 2018 \$1,275 \$66,504 0.241 2019 \$1,188 \$61,937 Total \$50,730 \$2,645,551	. •		2017		••		<b>n</b>				•
0.241 2019 \$1,188 \$61,937 Total \$50,730 \$2,645,551	•		201				<b>\$</b>				
Total \$50,730 \$2,645,551			201				اه				
	7			-			9				

\$4,929 \$257,046 \$500

Page 4

# Coastal Wetlands Conservation and Restoration Plan Priority Project List Vi

## Lafourche Dedicated Dradging Increment 2(CW-6ii)

E V	rusy runded costs									ACE '0700
					Federal	LDNR				
Year	inflation Factor	Fiscal Year	Engineering & Design	Easements & Land Rights	Supervision & Administration	Supervision & Supervision Administration & Inspection	upervision	Confingency	First Cost Construction	Total First
S		0	<b>\$</b>	<b>\$</b>	2	2	2	S	3	08
•		0	<b>2</b>	2	2	<b>3</b>	2	3	3	3
~	1.000	1967	\$100,000	\$250,000	2	<b>\$</b>	8	8	S	\$350,000
~	1.027	1098	\$230,264	2	\$3,253	<b>\$3,</b> 253	9	S	S	\$244 780
-			2	2	\$3,340	\$14,942	8	\$83.508	\$334 033	\$435,824
	ř	TOTAL	\$338,264	\$250,000	\$6,593	\$18,195	2	\$83,508	\$334,033	\$1,030,593
	Inflation	Fiscal	Monitoring	OBM	Other					
Year	Factor	Year	Costs	Costs	Costs					
-	1.083	2000	\$5,339	\$278,434	\$542					
ņ	1.112	2001	\$5,481	\$285,812	\$558					
7	1.142	2002	\$5,631	\$293,672	\$571					
4	1.173	2003	\$5,783	\$301,601	\$587					
ó	1.205	2004	\$5,940	\$309,745	\$603					
φ	1.238	2005	\$8,100	\$318,108	\$619					
-1	1.271	2008	\$6,265	\$326,697	\$635					
æ	1.305	2007	\$6,434	\$335,518	\$653					
œ	1.341	2008	\$6,607	\$344,578	\$670					
9	1.377	2008	\$6,786	\$353,880	\$698	. •				
F	1.414	2010	\$6,969	\$363,435	\$707					
-12	1.452	2011	\$7,157	\$373,248	\$726					
÷	1.491	2012	\$7,350	\$383,325	\$746					
÷	1.532	2013	\$7,549	\$393,675	\$766					
-15	1.573	2014	\$7,753	\$404,304	\$786					
9	1.615	2015	\$7,962	\$415,220	\$808					
-11	4.659	2016	\$8,177	\$426,431	\$629					
<b>9</b>	1.704	2017	\$8,396	\$437,845	\$852					
-19	1.750	2018	\$8,625	\$449,770	\$875					
-20	1.797	2019	\$8,657	\$461,913	\$889					

4/10/97

Costs amortized over 20 year operation life

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Project Construction Years:		Total Project Years	. 53
interest Rate	7.38%	Amortization Factor	0.0971616
Total First Costs	\$1,321,200	Total Fully Funded Costs	\$13,937,200

Average	\$141,400 \$4,900 \$441,400 \$500	\$588,200	260	\$2,262	809
Present Worth	\$1,455,200 \$50,700 \$4,543,100 \$5,100	\$6,054,100			
Annual Charges	Interest & Amortization Monitoring O & M Costs Other Costs	Total	Average Annual Habitat Units	Cost Per Habitat Unit	Average Annual Acres of Emergent Marsh

## Lafourche Bedicated Dredging Increment 3(CW-8III)

First Costs and Annual Charges

					Federal	LONR				
		Fiscal	Engineering	<b>Easements</b>	Supervision &	Supervision & Supervision	Supervision		First Cost	<b>Total First</b>
Year		Year	& Design	& Land Rights	Administration Administration & Inspection	Administration	& Inspection	Contingency	Construction	Cost
S	Compound		2	0\$	<b>\$</b>	<b>S</b>	<b>9</b>	<b>\$</b>	<b>9</b>	8
₹	Compound		3	<b>\$</b>	육	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>9</b>	<b>3</b>
n	Compound	1997	\$100,000	\$250,000	2	<b>\$</b>	<b>\$</b>	2	2	\$350,000
~	Compound	1998	\$300,000	<b>\$</b>	<b>74</b> ,790	\$4,790	<b>\$</b>	2	<b>S</b>	\$309,580
<u>-</u>	Compound	1990	2	<b>\$</b>	\$4,790	\$15,790	<b>\$</b>	\$119,750	\$479,000	\$619,330
	Ваѕе Уеаг									
	<u>~</u>	TOTAL	<b>\$400</b> ,000	\$250,000	29,580	\$20,580	<b>.</b>	\$119,750	£479,000	\$1,278,910
		Flecal	Monttoring	OSM	Other					
Year		Year	Coats	Costs	Costs					
-	Discount	2000	\$4,929	\$441,418	\$500	•				
8	Discount	2001	\$4,929	\$441,418	\$200					
60	Discount	2002	<b>₹4</b> ,929	\$441,418	\$500					
•	Discount	2003	\$4,929	\$441,418	\$200					
ß	Discount	2007	\$4,929	\$441,418	\$200					
9	Discount	2005	<b>44</b> ,929	\$441,418	\$500					
~	Discount	2008	<b>54</b> ,929	\$441,418	\$500					
•	Discount	2007	\$4,929	\$41.A18	\$200					
8	Discount	2008	\$4,929	\$441,418	\$200					
5	Discount	2009	<b>54</b> ,929	\$41.418	\$500					
=	Discount	2010	<b>54</b> ,929	\$441,418	\$200					
12	Discount	2011	<b>\$4</b> ,929	\$441,418	\$200					
13	Discount	2012	<b>54</b> ,929	\$441,418	\$200					
7	Discount	2013	<b>44</b> ,929	\$441,418	\$200					
5	Discount	2014	\$4,929	\$441,418	\$200					
16	Discount	2015	\$4.929	\$441,418	\$200					
11	Discount	2016	<b>4,9</b> 29	\$441,418	999 <b>\$</b>	<i>;</i>			<i>i</i>	
18	Discount	2017	<b>54</b> ,929	\$441,418	<b>2</b> 200					
19	Discount	2018	\$4,929	\$441,418	\$200					
20	Discount	2019	\$4,929	\$441,418	\$200	4				
	ı•¯¯	Total	298,580	\$8,828,360	\$10,000	l _				

Costs amortized over 20 year operation life

## Lafourche Dedicated Dradging Increment 3(CW-6H)

February Valued Costs   February Costs								;		
Find   Find   Find   Engineering   Easements Supervision & Supervision	Present Valued Cos	=	Total Discount	ed Costs	\$6,054,230			Amortized Cos	<b>ಪ</b>	\$588,239
Compound         Flacat         Engineering         Easements         Supervision &					Federal	LONR				
Roberton         Vear         & Deadon         & Land Rights Administration & Inspection         Continuation         State         State<	Compound	Flecal	Engineering	Easements	Supervision &	Supervision &	Supervision		First Cost	Total First
1,427   0   \$10		Year	& Dealgn	& Land Rights	Administration	Administration	& Inspection	Contingency	Construction	
1.329   0   1.00   1.		0	2	<b>%</b>	<b>\$</b>	3	<b>9</b>	<u>2</u>	2	<b>%</b>
1.236   1994   \$123,797   \$1309,492   \$90   \$90   \$101     1.634   1996   \$345,882   \$90   \$5.143   \$90   \$90     1.034   1999   \$345,882   \$90   \$5.143   \$90   \$90   \$90     1.034   1999   \$345,882   \$90   \$5.143   \$90   \$90   \$90     1.034   2000   \$4,890   \$411,099   \$404     0.831   2000   \$4,890   \$411,099   \$404     0.852   2003   \$43,453   \$411,099   \$404     0.752   2003   \$43,799   \$432,892   \$404     0.754   2006   \$2,896   \$249,819   \$284     0.668   2006   \$2,296   \$249,819   \$289     0.698   2006   \$2,296   \$249,819   \$289     0.608   2006   \$2,296   \$249,819   \$284     0.608   2006   \$2,296   \$249,819   \$284     0.609   2006   \$2,296   \$249,819   \$249     0.600   2006   \$2,296   \$249,819   \$249     0.600   2006   \$2,296   \$249,819   \$249     0.600   2006   \$2,296   \$249,819   \$249     0.600   2006   \$2,296   \$249,819   \$249     0.600   2006   \$2,296   \$249,819   \$249     0.600   2006   \$2,296   \$249,819   \$249     0.600   2006   \$2,296   \$249,819   \$249     0.600   2006   \$249,819   \$244     0.600   2006   \$249,819   \$244     0.600   2006   \$249,	4 1.329	•	2	3	<b>\$</b>	<b>\$</b>	S.	<u> </u>	8	<b>\$</b>
1.153   1996   \$345,682   \$9   \$5,523   \$5,523   \$9   \$9   \$9   \$1,074   \$1099   \$9   \$9   \$9   \$1,074   \$1099   \$9   \$9   \$9   \$9   \$1,074   \$1099   \$9   \$9   \$9   \$1,074   \$1099   \$9   \$9   \$9   \$1,074   \$9   \$9   \$9   \$9   \$9   \$9   \$9   \$	3 1238	1997	\$123.797	\$309,492	<b>\$</b>	<b>₽</b>	Ş	<b>\$</b>	<b>S</b>	\$433,289
LOTA         1999         \$0         \$5,142         \$16,965         \$0         \$128,582         \$514,326         \$1,205	2 1.153	1998	\$345,882	<b>3</b>	\$5,523		<b>\$</b>	<b>3</b>	<b>\$</b>	\$356,927
Total   \$466,679 \$309,492 \$10,666 \$22,477 \$0 \$128,582 \$514,326   Cheek   Coek	1,074	1899	<b>8</b>	<b>%</b>	\$5,143	•	<b>\$</b>	\$120,582	\$514,326	\$685,006
Discount         Fiscal         Monitoring         O&M         OW           0.931         2000         \$4,590         \$411,099         Costs         Costs           0.931         2001         \$4,275         \$382,863         Costs         Costs         Costs           0.808         2002         \$3,982         \$356,566         \$35,076         \$350,267         \$30,267         \$30,267         \$30,267         \$30,267         \$30,267         \$20,263         \$30,210         \$30,267         \$20,263         \$30,210         \$30,267         \$20,263         \$30,210         \$30,267         \$20,263         \$20,273         \$20,273         \$20,273         \$20,273         \$20,273         \$20,273         \$20,273         \$20,273         \$20,273         \$20,273         \$20,273         \$20,273         \$20,273	1		\$469,679	\$309,492	\$10,668		<b>0\$</b>	\$128,582	\$514,326	\$1,455,221
Rates         Year         Costs         Costs         Costs           0.931         2000         \$4,275         \$182,863           0.808         2002         \$3,902         \$186,566           0.752         2003         \$3,708         \$135,076           0.752         2004         \$3,708         \$132,076           0.752         2004         \$3,708         \$132,076           0.701         2004         \$3,216         \$286,587           0.608         2005         \$2,985         \$268,243           0.566         2007         \$2,985         \$269,819           0.577         2006         \$2,985         \$269,819           0.491         2008         \$2,780         \$249,819           0.497         2009         \$187,937           0.457         2010         \$1,954         \$115,011           0.369         2011         \$1,954         \$147,384           0.369         2013         \$1,470         \$13,673           0.298         2014         \$1,470         \$11,673           0.278         2017         \$1,470         \$114,206           0.259         2018         \$1,275         \$11,683	Discount	Fiscal	Monitoring	O&M	Other					
0.931         2000         \$4,590         \$411,099           0.667         2001         \$4,275         \$382,863           0.608         2002         \$3,962         \$356,566           0.752         2003         \$3,708         \$332,076           0.701         2004         \$3,453         \$309,287           0.653         2005         \$3,216         \$288,026           0.608         2007         \$2,965         \$249,819           0.557         2006         \$2,965         \$249,819           0.457         2008         \$2,420         \$249,819           0.457         2010         \$2,420         \$249,819           0.457         2010         \$2,420         \$240,819           0.457         2010         \$2,420         \$216,680           0.369         2011         \$1,954         \$116,91           0.369         2012         \$1,965         \$141,394           0.369         2013         \$1,470         \$13,673           0.298         2014         \$1,470         \$11,673           0.276         2017         \$1,406,812         \$114,206           0.259         2018         \$1,275         \$114,206		Year	Coets	S	Costs	ſ				
0.867         2001         \$4,275         \$382,863           0.808         2002         \$3,962         \$356,566           0.752         2003         \$3,708         \$332,076           0.053         2005         \$3,216         \$288,026           0.653         2006         \$2,995         \$268,243           0.566         2007         \$2,190         \$249,819           0.567         2008         \$2,895         \$249,819           0.577         2008         \$2,790         \$249,819           0.457         2008         \$2,420         \$216,60           0.457         2010         \$2,253         \$201,797           0.266         2012         \$1,964         \$187,937           0.457         2010         \$2,253         \$201,797           0.369         2012         \$1,964         \$167,937           0.369         2013         \$1,864         \$141,384           0.270         \$2,199         \$141,384         \$141,384           0.270         \$2,159         \$1,470         \$134,205           0.270         \$2,159         \$1,470         \$134,205           0.270         \$2,140         \$1,262         \$114,20		2000	\$4,590	\$411,099	\$466	1				
0.808         2002         \$3,962         \$356,566           0.752         2003         \$3,708         \$332,076           0.701         2004         \$3,453         \$309,267           0.653         2005         \$2,166         \$288,026           0.608         2006         \$2,995         \$268,243           0.566         2007         \$2,790         \$249,819           0.527         2008         \$2,790         \$249,819           0.457         2008         \$2,790         \$216,60           0.457         2010         \$2,253         \$201,81           0.266         2011         \$2,253         \$201,81           0.369         2011         \$1,964         \$187,937           0.369         2012         \$1,964         \$163,007           0.344         2014         \$1,965         \$151,811           0.296         2015         \$1,470         \$134,384           0.276         2017         \$1,579         \$134,384           0.276         2017         \$1,579         \$134,384           0.276         2017         \$1,269         \$141,384           0.278         2017         \$1,275         \$114,205     <	-2 0.867	2001	\$4,275	•	\$434					
0.752         2003         \$3,708         \$332,076           0.701         2004         \$3,453         \$309,267           0.653         2005         \$2,16         \$286,026           0.608         2006         \$2,995         \$268,243           0.566         2007         \$2,995         \$249,819           0.527         2008         \$2,790         \$249,819           0.457         2008         \$2,790         \$216,600           0.457         2010         \$2,253         \$201,797           0.266         2011         \$1,954         \$187,937           0.340         2012         \$1,954         \$175,028           0.340         2013         \$1,854         \$141,384           0.340         2014         \$1,695         \$151,811           0.276         2015         \$1,770         \$134,384           0.278         2017         \$1,579         \$141,384           0.278         2017         \$1,275         \$114,205           0.278         2017         \$1,275         \$114,205           0.241         2019         \$1,275         \$114,205           0.241         2019         \$4,543,132	-3 0.808	2002	\$3,962	•	<b>2</b> 0 <b>2</b>					
0.701         2004         \$3,453         \$309,287           0.653         2005         \$3,216         \$286,026           0.608         2007         \$2,995         \$268,243           0.566         2007         \$2,996         \$249,819           0.527         2008         \$2,598         \$232,660           0.457         2008         \$2,420         \$216,680           0.457         2010         \$2,253         \$201,797           0.369         2011         \$1,954         \$187,937           0.369         2012         \$1,954         \$175,028           0.344         2013         \$1,895         \$161,811           0.340         2014         \$1,695         \$151,811           0.298         2017         \$1,579         \$131,873           0.276         2017         \$1,579         \$131,873           0.278         2017         \$1,275         \$114,205           0.241         2019         \$1,275         \$114,205           0.241         2019         \$4,543,132	4 0.752	2003	••	\$332,076	\$376					
0.653         2005         \$3,216         \$286,026           0.608         2007         \$2,995         \$266,243           0.566         2007         \$2,996         \$249,819           0.527         2008         \$2,598         \$232,660           0.491         2008         \$2,420         \$216,680           0.457         2010         \$2,253         \$201,797           0.366         2011         \$1,954         \$187,937           0.369         2012         \$1,954         \$175,028           0.344         2013         \$1,695         \$161,811           0.340         2014         \$1,695         \$151,811           0.298         2017         \$1,579         \$131,873           0.276         2017         \$1,579         \$131,873           0.276         2017         \$1,369         \$126,29           0.278         2017         \$1,275         \$114,205           0.241         2019         \$1,275         \$114,205           0.241         2019         \$4,543,132           Todal         \$50,730         \$4,543,132	-5 0.701	2004	•	\$309,267	\$350					
0.608         \$2,995         \$266,243           0.566         2007         \$2,790         \$249,819           0.527         2008         \$2,790         \$249,819           0.491         2008         \$2,420         \$216,680           0.457         2010         \$2,253         \$201,797           0.326         2012         \$1,954         \$187,937           0.349         2013         \$1,895         \$167,028           0.340         2013         \$1,895         \$151,811           0.320         2014         \$1,695         \$151,811           0.298         2017         \$1,579         \$131,873           0.276         2017         \$1,369         \$141,384           0.278         2017         \$1,579         \$131,673           0.278         2017         \$1,369         \$141,205           0.279         2017         \$1,275         \$114,205           0.241         2019         \$1,186         \$106,362           10,241         2019         \$4,543,132	-6 0.653	2005	•	\$288,026	\$326	•				
0.566         2007         \$2,790         \$249,819           0.527         2008         \$2,420         \$232,660           0.467         2010         \$2,420         \$216,680           0.426         2011         \$2,933         \$201,797           0.369         2012         \$1,954         \$175,028           0.369         2013         \$1,895         \$161,811           0.344         2014         \$1,695         \$151,811           0.298         2017         \$1,579         \$131,813           0.276         2017         \$1,579         \$131,873           0.278         2017         \$1,369         \$141,384           0.278         2017         \$1,579         \$131,673           0.278         2017         \$1,275         \$114,205           0.241         2019         \$1,275         \$114,205           0.241         2019         \$4,543,132           704a         \$50,730         \$4,543,132	.7 0.608	2008		•	<b>305</b>					
0.527         2008         \$2,598         \$232,660           0.457         2010         \$2,420         \$216,680           0.426         2011         \$2,099         \$187,937           0.369         2012         \$1,854         \$175,028           0.369         2013         \$1,895         \$161,811           0.344         2014         \$1,695         \$151,811           0.320         2015         \$1,579         \$131,813           0.298         2017         \$1,369         \$131,873           0.276         2017         \$1,369         \$131,873           0.278         2017         \$1,369         \$141,384           0.278         2017         \$1,275         \$144,205           0.278         2018         \$1,275         \$114,205           0.241         2019         \$4,275         \$4,543,132           Todal         \$50,730         \$4,543,132	-8 0.566	2007		•	\$283					
0.491         2009         \$2,420         \$216,680           0.426         2010         \$2,253         \$201,797           0.397         2012         \$1,854         \$175,028           0.369         2013         \$1,854         \$175,028           0.344         2014         \$1,695         \$151,811           0.320         2015         \$1,579         \$141,384           0.298         2017         \$1,579         \$131,673           0.276         2017         \$1,369         \$12,629           0.278         2017         \$1,369         \$141,384           0.278         2017         \$1,275         \$144,205           0.259         2018         \$1,275         \$114,205           0.241         2019         \$1,186         \$106,362           Todal         \$50,730         \$4,543,132	-9 0.527	2008		•	<b>\$</b> 28 <b>4</b>					
0.457         2010         \$2,253         \$201,797           0.426         2011         \$2,099         \$187,937           0.397         2012         \$1,954         \$175,028           0.369         2013         \$1,820         \$163,007           0.344         2014         \$1,695         \$151,811           0.320         2015         \$1,579         \$131,873           0.298         2017         \$1,369         \$12,629           0.276         2017         \$1,369         \$141,384           0.278         2017         \$1,369         \$141,205           0.259         2017         \$1,275         \$114,205           0.241         2019         \$1,275         \$144,205           0.241         2019         \$5,736         \$4,543,132		2009		•	\$245					
0.426         2011         \$2,099         \$187,937           0.397         2012         \$1,954         \$175,028           0.369         2013         \$1,820         \$163,007           0.344         2014         \$1,695         \$151,811           0.320         2015         \$1,579         \$141,384           0.278         2017         \$1,769         \$12,629           0.279         2017         \$1,369         \$144,205           0.259         2017         \$1,275         \$114,205           0.241         2019         \$1,275         \$108,362           Todal         \$50,730         \$4,543,132		2010	•	~	\$228					
0.369 2012 \$1,954 \$175,028 0.369 2013 \$1,820 \$163,007 0.344 2014 \$1,895 \$151,811 0.320 2015 \$1,579 \$141,384 0.278 2017 \$1,369 \$112,629 0.278 2017 \$1,369 \$112,629 0.241 2019 \$1,188 \$108,362 0.241 2019 \$1,188 \$108,362 0.241 2019 \$1,188 \$108,362		2011		•	\$213					
0.369 2013 \$1,820 \$163,007 0.344 2014 \$1,695 \$151,811 0.320 2015 \$1,579 \$141,384 0.298 2017 \$1,369 \$122,629 0.278 2017 \$1,369 \$122,629 0.259 2018 \$1,275 \$114,205 0.241 2019 \$1,188 \$108,362		2012		•	\$198	_				
0.344 2014 \$1,695 \$151,811 0.320 2015 \$1,579 \$141,384 0.298 2016 \$1,470 \$131,673 0.278 2017 \$1,369 \$122,629 0.259 2018 \$1,275 \$114,205 0.241 2019 \$1,188 \$108,362 Total \$50,730 \$4,543,132		2013		•	<b>3</b> 185					
0.320 2015 \$1,579 \$141,384 0.298 2016 \$1,470 \$131,673 0.278 2017 \$1,369 \$122,629 0.259 2018 \$1,275 \$114,206 0.241 2019 \$1,188 \$108,362 Total \$50,730 \$4,543,132		2014			\$172					
0.296 2016 \$1,470 \$13,673 0.276 2017 \$1,369 \$122,629 0.259 2018 \$1,275 \$114,206 0.241 2019 \$1,188 \$106,362 Total \$50,730 \$4,543,132		2015				_				
0.276 2017 \$1,369 \$122,629 0.259 2018 \$1,275 \$114,206 0.241 2019 \$1,188 \$106,362 Total \$50,730 \$4,543,132		2018	1			_				
0.259 2018 \$1,275 \$114,206 0.241 2019 \$1,188 \$106,362 Total \$50,730 \$4,543,132		2017	•	••						
0.241 2019 \$1,186 \$106,362 Total \$50,730 \$4,543,132		2018				_				
Total \$50,730 \$4,543,132		2018				_1				

\$4,929 \$441,418 \$500

Average Annual

## Lafourche Dadicated Bredging Increment 3(CW-6III)

•										
					Federal	LONR				
Year	Inflation Factor	Fiscal	Engineering & Design	Easements A t and Rinhts	Supervision & Administration	Supervision & Supervision & Supervision Administration Administration Administration & Increasing	Supervision L. Inepection	Contingence	First Cost	Total First
2		0	S	3	\$0	03	20		SO S	1000
4		•	8	3	<b>3</b>	<b>S</b>	S	S	<b>S</b>	•
6	1.000	1907	\$100,000	\$250,000	<b>3</b>	<b>3</b>	3	S	<b>S</b>	4350 000
7	1.027	1998	\$308,100	<b>3</b>	\$4.919	84.919	S	S	<b>S</b>	4317 030
-	1.055	1999	2	<b>\$</b>	\$5,052	\$16,654	<b>S</b>	\$126.304	\$505.215	\$651.225
	-	TOTAL	\$406,100	\$250,000	126'6\$	\$21,574	2	\$128,304	\$505,215	\$1,321,164
	inflation	Fiscal	Monitoring	OGM	Other					
Year	Factor	Year	Costs	Costs	Costs					
Ţ	1.083	2000	\$5,339	\$478,147	\$542					
7	1.112	2001	\$5,481	\$490,818	\$558					
?	1.142	2002	\$5,631	\$504,315	\$571					
7	1.173	2003	\$5,783	\$517,932	\$587					
Ŋ	1.205	2007	\$5,940	\$531,916	\$603					
ဗှ	1.238	2005	\$6,100	\$546,278	\$619					
	1.271	2008	\$6,265	\$561,027	\$635					
<b></b>	1.305	2007	\$6,434	\$576,175	\$853					
7	1.341	2008	\$6,607	\$501,732	\$670					
-10	1.377	2008	\$6,786	\$607,708	\$688					
-	1.414	2010	\$6,969	\$624,117	\$707					
-12	1.452	2011	\$7,157	\$640,968	\$726					
-13	1.481	2012	\$7,350	\$658,274	\$748					
-14	1.532	2013	\$7,549	\$676,047	\$766					
-15	1.573	2014	\$7,753	\$694,300	\$786					
-16	1.615	2015	\$7,962	\$713,047	808\$					
-17	1.659	2016	\$8,177	\$732,289	\$828					
<del>9</del>	1.704	2017	\$6,388	\$, 52,071	<b>\$852</b>					
-19	1.750	2018	\$8,625	\$772,377	\$875					
-20	1.797	2019	\$8,857	\$793,231	888					
	1					•				

4/10/97

Costs amortized over 20 year operation life

: :

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI Lafourche Dedicated Dradging Increment 4(CW-8iv) Two-Eight Inch Aquamog SRX-109 (Two Dradges)

Project Construction Years:	60	Total Project Years	8
Interest Rete	7.38%	Amoritization Factor	0.0971616
Total First Costs	\$1,644,600	Total Fully Funded Costs	\$15,547,700

Annuai Charges	Present Worth 6.1 802 500	Average Arrual \$175,100
Inferest & Amortization Monitoring O & M Costs Other Costs	\$50,700 \$5,012,300 \$5,100	\$4,900 \$487,000 \$500
	\$6,870,600	009' 199\$
Average Annual Habitat Units		380
Cost Per Habitat Unit		\$1,712
Average Annual Acres of Emergent Marsh		758

Costs amortized over 20 year operation Me

# Coastal Wellands Conservation and Restoration Plan Priority Project List VI

## Lafourcho Dedicated Dredging Increment 4(CW-8iv)

First Costs and Armual Charges

				Federal					
	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Year	Year	& Design	& Land Rights	Administration	Administration Administration & Inspection	& Inspection	Contingency	Construction	3
5 Compound	70	2	3	3	<b>3</b>	2	\$	3	9
4 Compount	10	2	2	2	2	2	9	<b>.</b>	S
3 Compound		\$100,000	\$250,000	2	2	3	3	S	\$350,000
2 Compound	_	\$463,600	2	\$5,934	\$5,834	<b>3</b>	3	<b>S</b>	\$475.468
1 Compound	9661 P	<b>3</b>	2	\$5,834	\$16,934	<b>\$</b>	\$148,350	\$593,400	\$764,618
70000	TOTAL	\$563,600	Mun, und	\$11,868	\$22,868	<b>\$</b>	\$148,350	\$593,400	\$1,590,086
	Flecal	Monttoring	OBM	Other					
Year	Year	Costs	Costs	Costs			•		
1 Discount	2000	\$4,929	\$486,999	\$200					
2 Discount	2001	<b>54</b> ,929	\$486,999	\$200					
3 Discount	2002	\$4,929	\$486,999	\$200					
4 Discount	2003	\$4,929	\$486,999	\$200					•
5 Discount	2004	\$4,929	\$486,99 <del>0</del>	\$200					
6 Discount	2005	\$4,929	\$486,999	\$200					
7 Discount	2008	<b>₹4</b> ,929	\$486,999	\$200					
8 Discount	2007	<b>14,929</b>	\$486,989	\$200					
9 Discount	5008	\$4,929	\$486,988	\$200					
10 Discount	2009	\$4,929	\$486,999	\$500					
11 Discount	2010	\$4,929	\$486,999	\$500					
12 Discount	2011	\$4,929	\$486,999	\$200					
13 Discount	2012	\$4,929	\$486,990	\$200					
14 Discount	2013	<b>\$4</b> ,929	\$486,999	\$200					
15 Discount	2014	\$4,929	\$486,999	\$200					
16 Discount	2015	<b>54</b> ,929	\$486,999	\$200					
17 Discount	2018	\$4,828	\$486,988	\$200	•	٠		•	
18 Discount	2017	\$4,929	\$486,999	\$200					
19 Discount	2018	\$4,929	\$486,999	\$500					
20 Discount	2019	\$4,929	\$486,999	\$200					
	Total	\$98,580	\$9,739,980	\$10,000					

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## Lafourche Dedicated Dredging Increment 4(CW-8lv)

					6	•	•		,	,
Pres	Present Valued Costs		Total Discounted Costs	ed Costs	\$6,870,617			Amortized Costs	e e	\$667,580
					Federal	LDNR				
	Compound	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	<b>Total First</b>
Year	Rates	Year	A Design	& Land Rights	Administration	Administration Administration & Inspection	& inspection	Contingency	Construction	Cost
ıc	1.427	0	9	95	<b>9</b>	<b>S</b>	<b>9</b>	<b>0\$</b>	0\$	0 <b>\$</b>
<b>→</b>	1.329	•	2	<b>%</b>	2	<b>%</b>	<b>9</b>	<b>\$</b>	<b>S</b>	<b>\$</b>
- 69	1.238	1997	\$123,797	\$309,492	2	<b>%</b>	<b>\$</b>	<b>%</b>	<b>\$</b>	\$433,289
•	1 153	400	\$534 503	9	\$6.842	\$6.842	0\$	2	2	\$548,186
- 1	1.074	1999	S	<b>.</b>	\$6,372	•	0\$	\$159,291	\$637,163	\$821,009
	1	Total	\$658,299	\$309,492	\$13,213		<b>&amp;</b>	\$158,291	\$637,163	\$1,802,483
	Discount	Fiscal	Monitoring	OGM	Other					
Year		Year	Costs	Costs	Costs	,				
-	0.931	2000	\$4,590	\$453,550	\$466	1 _				
7	0.867	2001	\$4,275	\$422,398	\$434					
?	0.808	2002	\$3,982	\$383,386	<b>*</b>					
7	0.752	2003	\$3,708	\$366,366	\$376					
ç	0.701	2004	\$3,453	\$341,202	\$320	_				
φ	0.653	2005	\$3,216	\$317,767	\$328					
1-	0.608	2008	\$2,995	\$295,941	<b>\$</b> 30 <b>7</b>					
φ	0.568	2007	\$2,790	\$275,615	•	_				
Ġ	0.527	2008	\$2,598	\$256,684	•	_				
9-		2009	\$2,420	\$239,054	•					
÷		2010	\$2,253	\$222,635	•	_				
-12		2011	\$2,099	\$207,343	_	_				
-13		2012	\$1,954	\$193,102		•				
4-		2013		-		<b>1</b> 0				
-15		2014	\$1,695	\$167,487		~				
-18	3 0.320	2015		\$155,983		-				
-17		2016	\$1,470	\$145,269	_					
<del>2</del> 1-		2617		\$135,292	••	(B)	•	•	:	:
.19	9 0.259	2018	\$1,275	\$125,999		•				
?	0.241	2019		ı	\$120	اه				
	•	Total	\$50,730	\$5,012,258	\$5,146	6				
	Average Annual	, projection of the second	<b>44</b> ,929	\$486,999	\$500	•		·		
	,									

Coats amortized over 20 year operation life

# Coastal Wetlands Conservation and Restoration Plan Priority Project List Vi

## Lafourche Dedicated Dradging Increment 4(CW-6iv)

			•						2	\$1,010,643
					Federal	LDNR				
200	Inflation	Fiscal	Engineering	Easements	Supervision &		Supervision		First Cost	<b>Total First</b>
	- 6000	ł	a Design	& Land rognis	Administration	Administra	& Inspection	Contingency	Construction	Sost
o ·		0	2	3	<b>2</b>	<b>S</b>	<b>8</b>	<b>3</b>	2	\$0
•		0	<b>3</b>	<b>\$</b>	<b>\$</b>	<b>%</b>	2	<b>3</b>	9	S
ო	1.000	1997	\$100,000	\$250,000	2	<b>9</b>	8	3	<b>\$</b>	4350 000
~	1.027	1998	\$476,117	2	\$6,094	\$6.094	<b>3</b>	S	3	200,000
-	1.055	1990	<b>\$</b>	2	\$6,259	<b>~</b>	3	\$156.489	SR25 876	<b>CB08 465</b>
		TOTAL	\$576,117	\$250,000	\$12,353		2	\$156,489	\$625,876	\$1,644,770
	Inflation	Fiscal	Montecing	0 <b>6</b> M	Other					
Year	Factor	Year	Costs	Costs	Costs					
÷	1.083	2000	\$5,339	\$527.521	\$542					
?	1.112	2001	\$5,481	\$541,500	\$558					
7	1.142	2002	\$5,631	\$556,391	\$571					
4	1.173	2003	\$5,783	\$571,414	\$587					
က်	1.205	2004	\$5,940	\$586,642	\$603					
æ	1.238	2005	\$6,100	\$602,687	\$619					
٠.	1.271	2006	\$6,285	\$618,959	\$635					
9	1.305	2007	\$6,434	\$635,671	\$853					
Ġ	1.341	2008	\$6,607	\$652,834	\$870					
-10	1.377	2008	\$6,786	\$670,461	\$688					
Ŧ	1.414	2010	\$6,969	\$688,563	\$707					
-12	1.452	2011	\$7,157	\$707,164	\$728					
<del>.</del>	1.491	2012	\$7,350	\$726,247	\$746					
7	1.532	2013	\$7,549	\$745,856	\$766					
-15	1.573	2014	\$7,753	\$765,994	\$786					
-16	1.615	2015	\$7,962	\$786,676	\$808					
-17	1.659	2016	\$8,177	\$807,916	\$829					
2	1.704	2017	855,94	\$829,730	7098		;			
<del>6</del> -	1.750	2018	\$8,625	\$652,133	\$875					
9			\$8,857	\$875,140	668\$					
	F	Total	£120 183	\$12 740 ABO	611 417			Ī		

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Coastal Wellands Conservation and Restoration Plan Priority Project List VI Lafourche Dedicated Dredging Increment 5(CW-4v) One-Eight Inch Aquamog SRX-109 (24 Hour Dredging)

Project Construction Years:		Total Project Years	23
Interest Rate	7.38%	Amoritization Factor	0.0971616
Total First Costs	\$1,180,400	Total Fully Funded Costs	\$12,405,900

Annual Charges	Worth	Average
inisrael & Amortzaiton Monitoring O & M Costs Ofter Costs	\$1,317,800 \$50,700 \$4,036,200 \$5,100	\$128,000 \$4,900 \$392,200 \$500
Total	\$5,409,800	\$525,600
Average Amual Habitat Units		301
Cost Per Habitat Unit		\$1,746
Average Annual Acres of Emergent Marsh		585

4/10/97

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## Lafourche Dedicated Dradging Increment 5(CW-6v)

First Costs and Amust Charges

Fotal First	5		3	<u></u>	\$350,000	\$364 614	\$432.258		\$1,146,893																							
First Cost	Construction	S		₹ .	3	3	\$331,700		\$331,700																							
		1	. <b>S</b>	3 3	₹ .	2	\$82,925		\$62,925																							
Supervision	& Inspection	<b>3</b>	3	\$	3 3	2	2		<b>3</b>																							
Supervision & Supervision	Administration & Inspection Contingency	2	2	S	£1 217	10.00	\$14,317		450.71¢																							
Federal Supervision &			3	2	23.317		15.54	10000	*20.00	S	1	CEON C				003	200						3	35	200		<b>3</b>	25.00				\$10,000
Easements A Land Richard	5			\$250,000	3	\$	3	£250 000		OFF	3	£302 185	2392 165	£392 185	£392 165	\$302 165	\$302,165	\$382,165	\$392,165	\$392,165	\$392,185	\$302,165	\$392,165	\$382,165	\$392,185	\$392,185	\$302,165	\$302,165	\$392,165	\$392.165	\$392,165	\$7,843,300
Engineering & Design	S	3 \$	3	300.00t	\$32 <b>8</b> ,000	S	}	\$458,000		Monitoring	Coels	\$4.929	22,920	\$4.929	<b>\$4.9</b> 28	\$4,929	₹.929	\$4,929	\$4,929	\$4,929	₹4,829	<b>\$4,9</b> 29	\$4,929	\$4,929	\$4,929	Z,629	878,829	#. 020	\$4,929	\$4,829	\$4,929	\$96,580
Flacel			1007		3	9		TOTAL		Flecal	Your	2000	2001	2002	2003	2004	2002	2006	2002	2008	2006	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Total
Year	5 Compound	4 Compound	Compound			- Compound	Base Year				Year	1 Discount	2 Discount	3 Discount	4 Discount	5 Discount	6 Discount	7 Discount	8 Discount	9 Discount	10 Discount	_	12 Discount	13 Discount	_	_	16 Discount	17 Discount	18 Discount		20 Discount	_

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## Lafourche Dedicated Dredging Increment 5(CW-6v)

					í					
2	Present Valued Costs		Total Discounted Costs	od Coets	\$5,409,918			Amortized Costs	. 22	\$525,636
					Federal	LDNR				
	Compound	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	<b>Total First</b>
Year	Raise	Yes	& Design	& Land Rights	Administration	Administration & Inspection	& inspection	Confingency	Construction	Cost
5	1427	0	2	<b>≎</b>	S	<b>3</b>	<b>0\$</b>	<b>3</b>	<b>\$</b>	<b>9</b>
4	1329	0	3	2	<b>\$</b>	S	<b>S</b>	<b>2</b>	2	<b>\$</b>
بع .	228	1997	\$123,797	\$309,492	<b>%</b>	\$	<b>\$</b>	<b>\$</b>	<b>3</b>	\$433,289
•	1 153	4004	\$412 752	3	\$3.824	\$3.824	<b>%</b>	<b>%</b>	2	\$420,401
1 +	1.074	1999	8	8	\$3,562	\$15,373	2	\$89,041	\$356,163	\$464,138
		Total	\$536,549	\$309,492	\$7,386		<b>%</b>	\$89,041	\$356,163	\$1,317,828
	Discount	Figure	Monttodag	OBM	Other					
Year		Year	Costs	Costs	Costs					
7		2000	\$4,590	\$385,229	\$468	, 1				
7	0.867	2001	\$4,275	\$340,144	<b>\$67\$</b>					
Ġ	0.908	2002	\$3,982	\$316,781	<b>\$404</b>					
4	0.752	2003	\$3,708	\$295,023	\$376					
φ	0.701	2004	\$3,453	\$274,780	\$350					
φ		2002	\$3,218	\$255,888	\$326					
-1	0.808	2008	\$2,995	\$238,312	<b>\$</b> 30 <b>\$</b>					
9	0.566	2007	\$2,790	\$221,944	\$283					
တု	0.527	2008	\$2,598	\$206,700	\$264					
-10	0.491	2008	\$2,420	\$192,503	\$245					
÷	0.457	2010	\$2,253	\$179,281	\$258					
-12		2011	\$2,099	\$166,967	\$213					
-13		2012	•	\$155,499	\$198	_				
7		2013		\$144,819	\$185					
15		2014		•	\$172	-				
-18		2015		\$125,608	\$180	_				
1		2018		\$116,981	\$1 <b>4</b> 9	•				
-18		2017		\$108,946	\$139	•				
-19		2018		\$101,463	\$129	•				
-20		2019		\$94,494	\$120	•				
l		Total	\$50,730	\$4,036,214	\$5,148	ما				
		-	44	A40.00	:	•				
	Average Annual		24'AC		٠.					

## Lafourche Dedicated Dradging Increment 5(CW-Bv)

EEY T	Fully Funded Costs		Total Fully Funded Costs	ded Costs	\$12,405,868			Amortized Costs	<b>.</b>	\$1,205,374
					Federal	LDNR				
Year	Inflation Factor	Fiscal Year	Engineering & Design	Easements & Land Rights	Supervision & Administration	Supervision & Supervision & Supervision Administration Administration & Inspection	Supervision & Inspection	Contingency	First Cost Construction	Total First Cost
သ		0	3	2	0\$		<b>9</b>	03	3	9
•		•	2	2	3	2	2	2	<b>S</b>	<b>3</b>
<b>6</b>	1.000	1887	\$100,000	\$250,000	<b>3</b>	<b>3</b>	<b>\$</b>	2	<b>\$</b>	\$350,000
8	1.027	1996	\$387,668	2	\$3,407	\$3,407	<b>9</b>	<b>\$</b>	<b>3</b>	\$374,479
-		1998	2	2	\$3,499	\$15,101	<b>\$</b>	\$87,463	\$349,854	\$455,916
		TOTAL	\$467,666	\$250,000	\$6,905	\$18,507	<b>%</b>	\$87,463	\$349,854	\$1,180,395
	Inflation	Fiscal	Monitoring	OGN	Other					
Year	Factor	Year	Costs	Costs	Costs					
7	1.083	2000	\$5,339	\$424,796	\$542					
7	1.112	2001	\$5,481	\$438,053	\$558					
Ģ	1.142	2002	\$5,631	\$448,044	\$571					
7	1.173	2003	\$5,783	\$460,141	\$587					
κċ	1.205	2004	\$5,940	\$472,565	\$603					
φ	1.238	2002	\$6,100	\$485,325	\$619					
~	1.271	2008	\$6,265	\$498,428	\$635					
7	1.305	2007	\$6,434	\$511,886	\$653					
ዋ	1.341	2008	\$6,607	\$525,707	\$670	٠				
우	1.377	2008	\$6.786	\$539,901	<b>989\$</b>					
÷	1.414	2010	\$6,969	\$554,478	\$707					
-12	1.452	2011	\$7,157	\$569,449	\$726					
-13	1.491	2012	\$7,350	\$584,824	\$746					
-14	1.532	2013	\$7,549	\$800,615	\$166					
-15	1.573	2014	\$7,753	\$616,831	\$788					
-16	1.615	2015	\$7,962	\$633,486	<b>\$808</b>					
11	953	2016	\$8,177	\$650,590	\$829					
-18	1.704	2017	\$8,398	\$668,156	\$825				:	
-19	1.750	2018	\$8,625	\$686,196	\$875					
-50	1.797	2019	\$8,857	\$704,723	689\$					
	,=	Total	6450 465	644 079 403	T-14 447	1				

Costs amortized over 20 year operation life

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# Barataria Bay Waterway Bank Protection East (PBA-12b)

	. 24	0.0971616	\$5,019,900
	Total Project Years	Amoritization Factor	Total Fully Funded Costs
	4	7.38%	\$4,720,300
:	Project Construction Years:	Interest Rate	Total First Costs

Annual Charges	Present Worth	Average Annual
Interest & Amortization Monitoring O & M Costs Other Costs	\$5,124,800 \$25,200 \$78,300 \$5,100	\$497,900 \$2,400 \$7,600 \$500
Total	\$5,233,400	\$508,400
Average Annual Habitat Units		128
Cost Per Habitat Unit		\$3,972
Average Annual Acres of Emergent Marsh		114

## Barataria Bay Waterway Bank Protection East (PBA-12b)

First Costs and Annual Charges

	First Cost Total First	Contingency Construction Cost		000'08\$ 0\$ 0\$	\$0 \$181,111	\$646,667 \$2,586,667 \$3,526,278	\$129,333 \$517,333 \$678,611		\$776,000 \$3,104,000 \$4,466,000																							
	Supervision	& Inspection	0\$	<b>\$</b> 0	<b>\$</b>	\$45,833	\$9,167		\$55,000																	,						
LDNR	Supervision & Supervision	Administration	0\$	<b>\$</b>	\$21,111	\$50,667	\$14,222		\$86,000																							
Federal	Supervision &	Administration Administration & Inspection	<b>\$</b>	<b>9</b>	\$42.778	\$102,667	\$8,556		\$154,000	Other	Costs	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$10,000
	Easements	& Land Rights	<b>9</b>	\$50,000	<b>9</b>	. <b>S</b>	. <b>.</b>		\$50,000	08M	Costs	0\$	<b>\$</b>	<b>\$</b>	<b>9</b>	\$75,000	<b>\$</b> 0	<b>S</b>	<b>9</b>	<b>0\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b> 0	<b>S</b>	<b>\$</b> 0	\$75,000	<b>\$</b> 0	<b>\$</b>	<b>S</b>	<b>S</b>	<b>0\$</b>	\$150,000
	Engineering	& Design	25	\$30,000	\$117,222	\$93.778	0\$	•	\$241,000	Monitoring	Costs	\$2,451	\$2,451	\$2,451	\$2,451	\$2,451	\$2,451	\$2,451	\$2,451	\$2,451	\$2,451	\$2,451	\$2,451	\$2,451	\$2,451	\$2,451	\$2,451	\$2,451	\$2,451	\$2,451	\$2,451	\$49,020
	Fiscal	Year		1997	1998	6661	2000		TOTAL	Fiscal	Year	2001	2002	2003	2004	2002	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Total
			Compound			Compound	Compound	Base Year				Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	_	_	Discount	Discount	Discount	Discount	Discount	_	Discount	Discount	Discount	Discount	
		Year	5	4	•	, ,	. –				Year	-	2	9	4	သ	9	7	89	6	10	=	12	13	14	15	16	17	18	19	20	

3/14/97

Costs amortized over twenty years

Page 2

#### Coastal Wellands Conservation and Restoration Plan Priority Project List VI

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#### Barataria Bay Waterway Bank Protection East (PBA-12b)

					V		•			
Prese	Present Valued Costs	ts	Total Discounted Costs	ed Costs	\$5,233,506			Amortized Costs	<b>S</b> 2	\$508,496
		i			Federal	LDNR				
>	3	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
- 2	2	rear	& Design	& Land Rights	Administration		Inspection	Contingency	Construction	5 130
ი .	1.427	0	<b>S</b>	0\$	<b>0\$</b>	0\$	03	60	40	- 4
4	1.329	1997	\$39,878	\$66,463	20	9	5	\$		0.000
e	1.238	1998	\$145,117	20	\$52.958	\$26 135	\$ \$	9	2	¥106,341
7	1.153	1999	\$108,120	5	€119 369	450,133	040004		0\$	\$224,210
-	1.074	2000	5	3 5	000,001	\$38,410	\$52,843	\$745,567	\$2,982,269	\$4,065,583
	1	Total	2,400		101.107	\$15,271	\$9,843	\$138,872	\$555,487	\$728,659
	<b>=</b>		\$293,116	\$66,463	\$180,512	\$99,822	\$62,686	\$884,439	\$3,537,756	\$5,124,793
	Discount	Fiscal	Monitoring	08M	Other					
Year	Rates	Year	Costs	Costs	Costs					
Ţ	0.931	2001	\$2,283	05	\$466					
?	0.867	2002	\$2,126	<b>S</b>	\$434					
ć	0.808	2003	\$1,980	<b>S</b>	\$404					
4	0.752	2004	\$1,844	<b>\$</b>	\$376					
ιĊ	0.701	2005	\$1,717	\$52,547	\$350					
Ģ	0.653	2006	\$1,599	0\$	\$326					
-7	0.608	2007	\$1,489	<b>\$</b>	\$304					
œρ	0.566	2008	\$1,387	0\$	\$283					
6-	0.527	2009	\$1,292	<b>9</b>	\$264					
-10	0.491	2010	\$1,203	<b>9</b>	\$245					
÷	0.457	2011	\$1,120	<b>9</b>	\$229					
-15	0.426	2012	\$1,044	<b>9</b>	\$213					
-13	0.397	2013	\$972	<b>9</b>	\$198					
-14	0.369	2014	\$905	0\$	\$185					
-15	0.344	2015	\$843	\$25,794	\$172					
-16	0.320	2016	\$785	\$0	\$160					
-17	0.298	2017	\$731	<b>\$</b> 0	\$149					
-18	0.278	2018	\$681	\$0	\$139					
-19	0.259	2019	\$634	\$0	\$129					
-20	0.241	2020	\$591	\$0	\$120					
	Total	Teg	\$25,226	\$78,340	\$5,146					
٩	Average Annual	_	\$2.451	£7 619	<b>6</b> 500					
	5	•		710'14	000					

3/14/97

### Coastal Wellands Conservation and Restoration Plan Priority Project List VI

#### Barataria Bay Waterway Bank Protection East (PBA-12b)

Fully F	Fully Funded Costs		Total Fully Funded Costs	ded Costs	\$5,019,879			Amortized Costs	S)	\$487,740
					Federal	LDNR				
	Inflation	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Year	Factor	Year	& Design	& Land Rights	Administration	Administration Administration & Inspection Contingency	& Inspection	Contingency	Construction	Cost
5		0	0\$	<b>9</b>	<b>\$</b>	Ş	<b>S</b>	<b>S</b>	20	20
₹	1.000	1997	\$30,000	\$50,000	<b>\$</b>	<b>\$</b>	<b>\$</b> 0	<b>\$</b>	· \$0	\$80,000
e	1.027	1998	\$120,387	\$0	\$43,933	\$21,681	0\$	<b>S</b>	<b>S</b>	\$186,001
2	1.055	1999	\$98,910	<b>\$</b>	\$108,286	\$53,440	\$48,342	\$682,058	\$2,728,232	\$3,719,267
-	1.083	2000	<b>%</b>	<b>\$</b>	\$9,267	\$15,406	\$9,929	\$140,095	\$560,379	\$735,076
	_	TOTAL	\$249,297	\$50,000	\$161,486	\$90,526	\$58,271	\$822,153	\$3,288,611	\$4,720,345
	Inflation	Fiscal	Monitoring	08M	Other					
Year	Factor	Year	Costs	Costs	Costs					
-	1.112	2001	\$2,725	3	\$556					
7	1.142	2002	\$2,800	<b>%</b>	\$571					
ċ	1.173	2003	\$2,876	<b>\$</b>	\$587					
4	1.205	2004	\$2,953	<b>0</b> \$	\$603					
-5	1.238	2005	\$3,033	\$92,816	\$619					
9	1.271	2006	\$3,115	<b>\$</b>	\$635					
-7	1.305	2007	\$3,199	<b>\$</b>	\$653					
æ	1.341	2008	\$3,286	<b>\$</b>	\$670					
ō.	1.377	2009	\$3,374	<b>9</b>	\$688					
-10	1.414	2010	\$3,465	<b>\$</b>	\$707					
+	1.452	2011	\$3,559	<b>\$</b>	\$726		ű			
-12	1.491	2012	\$3,655	<b>9</b>	\$746					
-13	1.532	2013	\$3,754	\$0	\$766					
-14	1.573	2014	\$3,855	\$0	\$786					
-15	1.615	2015	\$3,959	\$121,152	\$808					
-16	1.659	2016	\$4,066	<b>9</b>	\$829					
-17	1.704	2017	\$4,176	<b>0\$</b>	\$852					
-18	1.750	2018	\$4,289	<b>\$</b>	\$875					
-19	1.797	2019	\$4,404	\$0	\$899					
-20	1.846	2020	\$4,523	<b>\$</b>	\$923					
	1	_ Lotal	\$71,069	\$213,968	\$14,498					

3/14/97

Page 1

## Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

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## Dedicated Dredging for Marsh Creation in the Mississippi River Delta (CW-1)

Project Construction Years:	S	Total Project Years	25
Interest Rate	7.38%	Amoritization Factor	0.0971616
Total First Costs	\$42,312,000	Total Fully Funded Costs	\$42,473,600

Annual Charges	Present Worth	Average
Interest & Amortization Monitoring O & M Costs Other Costs	\$45,443,300 \$50,700 \$0 \$5,100	\$4,415,300 \$4,900 \$0 \$500
Total	\$45,499,100	\$4,420,700
Average Annual Habitat Units		1,807
Cost Per Habitat Unit		\$2,446
Average Annual Acres of Emergent Marsh		2.420

### Coastal Wellands Conservation and Restoration Plan Priority Project List VI

## Dedicated Dredging for Marsh Creation in the Mississippi River Delta (CW-1)

#### First Costs and Annual Charges

LDNR	'n	Administration & Inspection Contingency	\$0 \$0	\$122.629 \$0 \$0	\$147 154 \$919 714 \$1 830 430 82 257 7	\$147.154 \$1.379.571 \$2.750.142	\$109,103 \$919,714		3526,040 \$3,219,000 \$6,438,000 \$25,752,000			ĺ																			
Federal	Supervision &	Is Administration	0\$	\$0 \$613,095	\$0 \$735,714				0 \$2,575,000	Other	Costs	\$500	\$500				•		•,			••	\$500					\$200			
	Easements	& Land Rights	\$34,000	•	Ġ	Ö	•		\$34,000	08M	Costs	Š	· 35	<b>\$</b>	<b>S</b>	<b>0\$</b>	<b>9</b>	<b>S</b>	<b>%</b>	0\$	<b>\$</b>	<b>\$</b>	<b>%</b>	<b>\$</b>	0\$	\$0	\$0	<b>S</b>	<b>S</b>	0\$	•
	Engineering	& Design	\$35,000	\$428,462	\$128,538	<b>9</b>	<b>\$</b>		\$592,000	Monitoring	Costs	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	0000
	Fiscal	Year	1997	1998	1999	2000	2001		TOTAL	Fiscal	Year	2002	2003	2004	2002	2006	2007	2008	5008	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	7000
		- 1		Compound	Compound	Compound	Compound	Base Year				Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discourse
		Year	S	4	က	7	-				Year	-	7	က	4	သ	9	7	ထ	<b>o</b>	5	Ξ	12	13	4	15	16	17	18	19	Š

### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

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## Dedicated Dredging for Marsh Creation in the Mississippi River Delta (CW-1)

					i,					
Prese	Present Valued Costs	ts S	Total Discounted Costs	ed Costs	\$45,499,160			Amortized Costs	S	\$4,420,771
					Federal	LDNR				
	Compound	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Year	Rates	Year	& Design	& Land Rights	Administration	Administration Administration & Inspection	& Inspection	Contingency	Construction	Cost
2	1.427	1997	\$49,956	\$48,528	90	<b>9</b>	\$0	\$0	80	\$98 484
4	1.329	1998	\$569,540	<b>9</b>	\$814,968	\$163,006	0\$	. <b>S</b>	0\$	\$1547,515
3	1.238	1999	\$159,127	<b>9</b>	\$910,791	\$182,172	\$1,138,577	\$2 277 154	\$9 108 617	£13 776 438
7	1.153	2000	\$0	0\$	\$848.234	\$169,660	\$1 590 562	£3 181 124	£12,724,404	€10 E11 070
-	1.074	2001	<b>S</b>	) <b>\$</b>	\$526,649	\$117,149	\$987,543	\$1.975.086	\$7,900,346	\$16,514,073
	T	Total	\$778,623	\$48,528	\$3,100,642	\$631,988	\$3,716,682	\$7,433,364	\$29,733,457	\$45,443,284
	Discount	Fiscal	Monitoring	08M	Other					
Year	Rates	Year	Costs	Costs	Costs					
<b>-</b>	0.931	2002	\$4,590	0\$	\$466					
-5	0.867	2003	\$4,275	<b>\$</b> 0	\$434					
÷.	0.808	2004	\$3,982	\$0	\$404					
4	0.752	2005	\$3,708	<b>\$</b>	\$376					
-5	0.701	2006	\$3,453	\$0	\$320					
Ģ	0.653	2007	\$3,216	\$0	\$326					
-1	0.608	. 2008	\$2,995	\$0	\$304					
æ	0.566	2009	\$2,790	<b>\$</b> 0	\$283					
Ģ.	0.527	2010	\$2,598	\$0	\$264					
-10	0.491	2011	\$2,420	<b>\$</b> 0	\$245					
-11	0.457	2012	\$2,253	\$0	\$229					
-12	0.426	2013	\$2,099	<b>%</b>	\$213					
-13	0.397	2014	\$1,954	<b>\$</b> 0	\$198					
-14	0.369	2015	\$1,820	\$0	\$185					
-15	0.344	2016	\$1,695	<b>%</b>	\$172					
-16	0.320	2017	\$1,579	<b>%</b>	\$160					
-17	0.298	2018	\$1,470	\$0	\$149					
-18	0.278	2019	\$1,369	\$0	\$139					
-19	0.259	2020	\$1,275	\$0	\$129					
-20	0.241	2021	\$1,188	\$0	\$120					
	To	Total	\$50,730	0\$	\$5,146					
	Average Annual	<b>7</b> 4	\$4,929	\$0	\$500					

#### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

## Dedicated Dredging for Marsh Creation in the Mississippi River Delta (CW-1)

- X	runy runded costs		iotal Fully Funded Costs	nded Costs	\$42,473,623			Amortized Costs	<b>S</b> 1	\$4,126,805
					Federal	LDNR				
Year	Inflation Factor	Fiscal Year	Engineering & Design	Easements & Land Rights	Supervision & Administration	Supervision & Supervision Administration & Inspection	Supervision & Inspection	Continuous	First Cost	Total First
2	1.000	1997	\$35,000	\$34,000	<b>3</b>	\$0	80	Campanian Co	Consudence	COST
4	1.027	1998	\$440,030	0\$	\$629.649	\$125.940	<b>S</b>	\$ 5		309,000
က	1.055	1999	\$135,573	<b>S</b>	\$775,979	\$155.208	\$970.049	\$1 040 000	900 050 4	810,021,14
7	1.083	2000	<b>9</b>	\$0	\$796.931	\$159.399	\$1 494 361	\$2,088,722	641.064.066	\$11,737,303
-	1.112	2001	<b>\$</b>	<b>3</b>	\$545,366	\$121,313	\$1,022,641	\$2,000,122	411,334,000	\$17,394,300
	_	TOTAL	\$610,603	\$34,000	\$2,747,925	\$561,859	\$3,487,051	\$6,974,103	\$27,896,411	\$42,311,952
	Inflation	Fiscal	Monitoring	<b>₩</b> 90	Other					
Year	Factor	Year	Costs	Costs	Costs					
-	1.142	2002	\$5.631	9	\$571					
?	1.173	2003	\$5,783	<b>S</b>	\$587					
5-	1.205	2004	\$5,940	. <b>9</b>	\$603					
4	1.238	2005	\$6,100	<b>S</b>	\$619					
κċ	1.271	2006	\$6,265	. <b>S</b>	\$635					
9-	1.305	2007	\$6,434	<b>9</b>	\$653					
~	1.341	2008	\$6,607	<b>\$</b>	\$670					
æ	1.377	2009	\$6,786	<b>9</b>	\$688				•	
6-	1.414	2010	696'9\$	<b>S</b>	\$707					
-10	1.452	2011	\$7,157	<b>9</b>	\$726					
=	1.491	2012	\$7,350	<b>9</b>	\$746					
-12	1.532	2013	\$7,549	0\$	\$766					
-13	1.573	2014	\$7,753	0\$	\$786					
-14	1.615	2015	\$7,962	<b>9</b>	\$808					
-15	1.659	2016	\$8,177	<b>\$</b>	\$829					
-16	1.704	2017	\$8,398	\$0	\$852					
-17	1.750	2018	\$8,625	<b>\$</b>	\$875					
. <del>1</del> 8	1.797	2019	\$8,857	<b>9</b>	\$899					
-19	1.846	2020	\$9,097	<b>0\$</b>	\$923					
-50	1.895	2021	\$9,342	0\$	\$948					
	7	Total	C116 707	5	614 000					

## Coastal Wetlands Conservation and Restoration Plan Poastoration Plan

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# Marsh Creation Using Dredge Materials East of the Atchafalya River at Avoca Island Increment 1 (CW-5i)

	0.0971616	Costs \$6,438,400
Total Project Years	Amoritization Factor	Total Fully Funded Costs
n Years: 3	7.38%	\$6,285,200
Project Construction Years:	Interest Rate	Total First Costs

Annual Charges	Present Worth	Average Annual
Interest & Amortization Monitoring O & M Costs Other Costs	\$6,771,800 \$50,700 \$0 \$5,100	\$658,000 \$4,900 \$0 \$0
Total	\$6,827,600	\$663,400
Average Annual Habitat Units		355
Cost Per Habital Unit		\$1,869
Average Annual Acres of Emergent Marsh		430

First Costs and Annual Charges

vision First Cost Total First	ection Conlingency Construction Cost	0\$ 0\$ 0\$ 0\$	. <b>S</b>	08	53	\$471.875 \$1.887.500		\$472,000 \$943,750 \$3,775,000 \$6,050,250																							
LDNR Supervision & Supervision	Administration Administration & Inspection	<b>9</b>	<b>\$</b>	<b>9</b>	\$68,636 \$23			\$86,500 \$47											•												
Federal Supervision &	Administration	<b>9</b>	<b>%</b>	<b>9</b>	\$343,636	\$34,364		\$378,000	Other	Costs	\$500	\$500	\$200	\$200	\$500	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$10,000
Easements	& Land Rights	<b>%</b>	<b>\$</b>	\$46,000	<b>9</b>	<b>\$</b>		\$46,000	08M	Costs	<b>%</b>	<b>S</b>	<b>%</b>	<b>%</b>	<b>9</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>%</b>	<b>\$</b>	<b>%</b>	<b>\$</b>	<b>\$</b> 0	<b>%</b>	<b>\$</b>	<b>S</b>	<b>\$</b>	<b>\$</b> 0	<b>\$</b>	0\$
Engineering	& Design	<b>S</b>	<b>\$</b>	\$23,000	\$326,000	<b>%</b>		\$349,000	Monitoring	Costs	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$4,929	\$98,580
Fiscal	Year			1997	1998	1999		TOTAL	Fiscal	Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Total
	- 1	5 Compound	4 Compound	3 Compound	2 Compound	1 Compound	Base Year			Year	1 Discount	2 Discount	3 Discount	4 Discount	5 Discount	6 Discount	7 Discount	8 Discount	9 Discount	10 Discount	11 Discount	12 Discount	13 Discount	14 Discount	15 Discount	16 Discount	17 Discount	18 Discount	19 Discount	20 Discount	r.

3/14/97

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# Marsh Creation Using Dredge Materials East of the Atchafalya River at Avoca Island Increment 1 (CW-5i)

	•				à				•	
reser	Present Valued Costs	s.	Total Discounted Costs	ed Costs	\$6,827,651			Amortized Costs	2	\$663,386
		i	:		Federal	LDNR				
>	Compound	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	<b>Total First</b>
- ca	rates	real	& Design	& Land Rights	Administration	Administration Administration & Inspection	& Inspection	Contingency	Construction	Cost
Ω	1.427	0	<b>9</b>	<b>%</b>	<b>\$</b>	0 <b>\$</b>	0\$	0\$	0\$	03
4	1.329	0	<b>\$</b>	\$0	<b>\$</b>	\$0	80	9	<b>\$</b>	<b>3</b>
က	1.238	1997	\$28,473	\$56,947	<b>\$</b>	90	9	<b>S</b>	<b>\$</b>	00° 430
7	1.153	1998	\$375,858	\$0	\$396,192	\$79.134	\$272.094	\$544.043	42 176 179	403,420
-	1.074	1999	<b>\$</b>	0\$	\$36,898	\$19,181	\$253,405	\$506,676	\$2,110,112 \$2,026,703	45,043,493
	Ţ	Total	\$404,331	\$56,947	\$433,090	\$98,315	\$525,499	\$1,050,719	\$4,202,876	\$6,771,775
	Discount	Fiscal	Monitoring	08M	Oliher					
Year	Rates	Year	Costs	Costs	Costs					
7	0.931	2000	\$4,590	\$0	\$466					
-5	0.867	2001	\$4,275	<b>\$</b>	\$434					
Ġ	808.0	2002	\$3,982	\$0	\$404					
4	0.752	2003	\$3,708	\$	\$376					
ċ	0.701	2004	\$3,453	\$0	\$320					
9	0.653	2005	\$3,216	\$0	\$326	•				
-1	0.608	2006	\$2,995	\$0	\$304					
ထု	0.566	2007	\$2,790	\$0	\$283					
6-	0.527	2008	\$2,598	<b>\$</b> 0	\$264					
-10	0.491	2009	\$2,420	<b>9</b>	\$245					
-11	0.457	2010	\$2,253	<b>\$</b> 0	\$229					
-12	0.426	2011	\$2,099	\$0	\$213					
-13	0.397	2012	\$1,954	<b>\$</b>	\$198					
-14	0.369	2013	\$1,820	\$0	\$185					
-15	0.344	2014	\$1,695	\$0	\$172					
-16	0.320	2015	\$1,579	<b>0\$</b>	\$160					
-17	0.298	2016	\$1,470	\$0	\$149					
-18	0.278	2017	\$1,369	\$0	\$139					
-19	0.259	2018	\$1,275	\$0	\$129					
-50	0.241	2019	\$1,188	\$0	\$120					
	Total	tal	\$50,730	0\$	\$5,146					
٩	Average Annual	=	\$4 929	9	\$500					
	•	:	)	<b>&gt;</b>	200					

Costs amortized over 20 year operation life

## Coastal Wellands Conservation and Restoration Plan Priority Project List VI

Marsh Creation Using Dredge Materials East of the Atchafalya River at Avoca Island Increment 1 (CW-5i)

	runy runded costs		rotat i uny r undeu costs		2000			Sison parinounce	2	80C'CZ0 <b>¢</b>
					Federal	LDNR				
Year	Inflation Factor	Fiscal	Engineering & Design	Easements & Land Rights	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
4		ı	- Broad	CHICA CHICAGO	Complication of the complete o	Administration Administration & Inspection	o inspection	Contingency	Construction	Cost
		-	2	2	<b>S</b>	<b>\$</b>	<b>9</b>	<b>0\$</b>	\$0	95
4		0	<u></u>	<b>≎</b>	<b>%</b>	<b>\$</b>	<b>\$</b>	Ş	. <b>5</b>	\$
m	1.000	1997	\$23,000	\$46,000	\$0	0\$	. 05	3	\$ 5	000 035
7	1.027	1998	\$334,802	. 50	\$352.915	870 490	621 6763	4484 616	0.00	000,604
-	1.055	1999	<b>9</b>	· <b>S</b>	\$36,244	\$18 841	\$248 916	\$497,700	€1,930,463	\$3,423,656
		TOTAL	\$357,802	\$46,000	\$389,159	\$89,331	\$491,288	\$982,316	\$3,929,263	\$6,285,159
	Inflation	Fiscal	Monitoring	O&M	Other					
Year	Factor	Year	Costs	Costs	Costs					
-	1.083	2000	\$5,339	\$0	\$542					
?	1.112	2001	\$5,481	<b>S</b>	\$556					
က္	1.142	2002	\$5,631	<b>9</b>	\$571					
4	1.173	2003	\$5,783	<b>9</b>	\$587					
ç.	1.205	2004	\$5,940	<b>\$</b>	\$603					
9	1.238	2002	\$6,100	<b>\$</b>	\$619					
-1	1.271	2006	\$6,265	<b>9</b>	\$635					
æ	1.305	2007	\$6,434	<b>0\$</b>	\$653					
6-	1.341	2008	\$6,607	0\$	\$670					
-10	1.377	2009	\$6,786	<b>0\$</b>	\$688					
÷	1.414	2010	<b>\$6</b> ,969	0\$	\$707					
-12	1.452	2011	\$7,157	<b>S</b>	\$726					
-13	1.491	2012	\$7,350	\$0	\$746					
-14	1.532	2013	\$7,549	<b>\$</b>	\$766					
-15	1.573	2014	\$7,753	<b>\$</b>	\$786					
-16	1.615	2015	\$7,962	<b>%</b>	\$808					
-17	1.659	2016	\$8,177	<b>\$</b>	\$829					
-18	1.704	2017	\$8,398	\$	\$852					
-19	1.750	2018	\$8,625	<b>\$</b>	\$875					
-20		-	\$8,857	0\$	\$899					
	_	Total	6420 462							

## Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

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# Marsh Creation Using Dredge Materials East of the Atchafalya River at Creole Bayou Increment 2 (CW-5ii)

	23	0.0971616	\$5,313,500
(IIC-MO) 7 IIIBIIII FI TO CO	Total Project Years	Amoritization Factor	Total Fully Funded Costs
	e	7.38%	\$5,160,200
	Project Construction Years:	Interest Rate	Total First Costs

Average Annual	\$540,100 \$4,900 \$0 \$500	\$545,500	134	\$4,071	264
Present Worth	\$5,558,300 \$50,700 \$0 \$0 \$5,100	\$5,614,100			
Annual Charges	Interest & Amortization Monitoring O & M Costs Other Costs	Total	Average Annual Habitat Units	Cost Per Habitat Unit	Average Annual Acres of Emergent Marsh

First Costs and Annual Charges

		i			Federal					
		Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	<b>Total First</b>
Year		Year	& Design	& Land Rights	Administration	Administration Administration & Inspection	& Inspection	Contingency	Construction	Cost
5 Com	Compound		<u>\$</u>	<b>%</b>	<b>0\$</b>	0 <b>\$</b>	<b>0\$</b>	<b>S</b>	0\$	\$0
4 Com	Compound		<u>\$</u>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>S</b>	<b>\$</b>	0\$	<b>9</b>
	Compound	1997	\$23,000	\$23,000	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>S</b>	. <b>S</b>	\$46,000
2 Com	Compound	1998	\$276,000	<b>\$</b>	\$281,818	\$56,364	\$194,000	\$387,500	\$1,550,000	\$2.745,682
- Com	Compound	1999	<b>9</b>	<b>\$</b>	\$28,182	\$15,636	\$194,000	\$387,500	\$1,550,000	\$2,175,318
Base	Base Year								•	
	Ĕ	TOTAL	\$299,000	\$23,000	\$310,000	\$72,000	\$388,000	\$775,000	\$3,100,000	\$4,967,000
		Fiscal	Monitoring	08M	Other					
Year		Year	Costs	Costs	Costs					
1 Discoun	ount	2000	\$4,929	<b>\$</b>	\$200					
2 Discount	ount	2001	\$4,929	<b>S</b>	\$200					
3 Discount	ount	2002	\$4,929	<b>\$</b>	\$200					
4 Discoun	onut	2003	\$4,929	<b>0\$</b>	\$200					
5 Discoun	unc	2004	\$4,929	<b>\$</b>	\$200					
6 Discoun	June	2002	\$4,929	<b>\$</b>	\$200					
7 Discoun	lunc	2006	\$4,929	<b>0\$</b>	\$200					
8 Discount	ount	2007	\$4,929	<b>0\$</b>	\$200					
9 Discount	onut	2008	\$4,929	<b>\$</b>	\$200					
10 Discoun	onut	2009	\$4,929	<b>\$</b>	\$200					
11 Discount	unc	2010	\$4,929	<b>\$</b>	\$200					
12 Discount	unc	2011	\$4,929	<b>\$</b>	\$200					
13 Discount	nut	2012	\$4,929	<b>9</b>	\$200					
14 Discount	onut	2013	\$4,929	<b>S</b>	\$200					
15 Discoun	ount	2014	\$4,929	<b>%</b>	\$200					
16 Discount	onut	2015	\$4,929	<b>\$</b>	\$200					
17 Discount	unc	2016	\$4,929	<b>%</b>	\$500					
18 Discoun	onut	2017	\$4,929	<b>\$</b>	\$200					
19 Discount	onut	2018	\$4,929	<b>\$</b>	\$200					,
20 Discount	_	2019	\$4,929	<b>%</b>	\$200					
	ĭ	Total	\$98,580	<b>9</b>	\$10,000					

3/14/97

### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

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Marsh Creation Using Dredge Materials East of the Atchafalya River at Creole Bayou Increment 2 (CW-5ii)

Prese	Present Valued Costs	হ	Total Discounted Costs	ed Costs	\$5,614,174			Amortized Costs	S1	\$545,482
					Federal	LDNR				
	Compound	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Year	Rates	Year	& Design	& Land Rights	Administration	Administration & Inspection	& Inspection	Contingency	Construction	Cost
သ	1.427	0	0\$	<b>%</b>	S	0\$	20	1	9	500
4	1.329	0	<b>\$</b>	<b>\$</b> 0	\$0	<b>S</b>	90	<b>S</b>		<b>3 3</b>
က	1.238	1997	\$28,473	\$28,473	. <b>S</b>	<b>20</b>	9	<b>S</b>	9	456 047
2	1.153	1998	\$318,211	\$0	\$324,919	\$64.984	\$223 670	\$446 764	\$1 787 056	430,347 42 466 604
-	1.074	1999	<b>9</b>	0\$	\$30,260	\$16,790	\$208,308	\$416.078	\$1,664,313	\$3,103,004 \$2,135,748
	<b>T</b> (	Total	\$346,684	\$28,473	\$355,179	\$81,773	\$431,978	\$862,842	\$3,451,368	\$5,558,298
	Discount	Fiscal	Monitoring	0 <b>8</b> M	Other					
Year	Rates	Year	Costs	Costs	Costs					
7	0.931	2000	\$4,590	0\$	\$466					
-5	0.867	2001	\$4,275	0\$	\$434					
ç.	0.808	2002	\$3,982	\$0	\$404					
4	0.752	2003	\$3,708	<b>%</b>	\$376					
ငှ	0.701	2004	\$3,453	<b>\$</b> 0	\$350					
9-	0.653	2002	\$3,216	<b>\$</b>	\$326					
	0.608	2006	\$2,995	<b>\$</b> 0	\$304					
æ	0.566	2007	\$2,790	<b>9</b>	\$283					
6-	0.527	2008	\$2,598	<b>\$</b>	\$264					
-10	0.491	2009	\$2,420	<b>\$</b>	\$245					
-1	0.457	2010	\$2,253	<b>\$</b>	\$229					
-12	0.426	2011	\$2,099	<b>\$</b> 0	\$213					
-13	0.397	2012	\$1,954	\$0	\$198					
-14	0.369	2013	\$1,820	\$0	\$185					
-15	0.344	2014	\$1,695	<b>%</b>	\$172					
-16	0.320	2015	\$1,579	\$0	\$160					
-17	0.298	2016	\$1,470	<b>\$</b> 0	\$149					
-18	0.278	2017	\$1,369	0 <b>\$</b>	\$139					
-19	0.259	2018	\$1,275	<b>\$</b> 0	\$129					
-50	0.241	2019	\$1,188	\$0	\$120					
	To	Total	\$50,730	0\$	\$5,146					
-	Average Annual	TR.	\$4,929	0\$	\$500					

Page 3

Costs amortized over 20 year operation life

	\$516,265	Total First Cost	0\$	\$0 \$46,000	\$2,819,815	\$2,294,371	\$5,160,186
(CW-Sii)		First Cost Construction	\$0	S. S.	\$1,591,850	\$1,634,830	\$3,226,680
ou Increment 2	Amortized Costs		0\$	2 S	\$397,963	\$408,707	\$806,670
t Creole Bay		Supervision & Inspection	0\$	3 8	\$199,238	\$204,617	\$403,855
afalya River a		LDNR Supervision & Administration	0\$	3 3	\$57,885	\$16,492	\$74,378
Marsh Creation Using Dredge Materials East of the Atchafalya River at Creole Bayou Increment 2 (CW-5ii)	\$5,313,466	Federal LDNR ingineering Easements Supervision & Supervision & Land Rights Administration Administration & Inspection Contingency	0\$	<b>3 3</b>	\$289,427	\$29,724	\$319,151
edge Materials (	ded Costs	Engineering Easements & Design & Land Rights	<b>9</b>	\$23,000	<b>\$</b>	0 <b>\$</b>	\$23,000
ition Using Dre	Total Fully Funded Costs	Engineering & Design	<b>S</b>	\$23,000	\$283,452	<b>9</b>	\$306,452
Marsh Crea		Fiscal Year	0 0	1997	1998	1999	TOTAL
	Fully Funded Costs	Inflation Factor		1.000	1.027	1.055	<u> </u>
	Fully Fi	Year	κo ⊿	rm	8	-	

		\$542	26	71	87	03	19	35	53	2	88	20	56	9	36	36	86	62	25	75	60	<u> </u> ≃
Other	Costs	\$5	\$5	\$2	\$5	98	\$6	9	9\$	9	395	\$7	\$7.	25	\$7	\$786	<b>\$8</b>	\$8	\$8	88	<b>\$</b> 86	\$14,117
O8M	Costs	<b>%</b>	<b>%</b>	<b>9</b>	<b>%</b>	<b>%</b>	<b>%</b>	<b>9</b>	<b>%</b>	\$0	<b>\$</b>	<b>9</b>	<b>9</b>	\$	<b>\$</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>%</b>	<b>9</b>	<b>%</b>	<b>9</b> 0
Monitoring	Costs	\$5,339	\$5,481	\$5,631	\$5,783	\$5,940	\$6,100	\$6,265	\$6,434	\$6,607	\$6,786	696'9\$	\$7,157	\$7,350	\$7,549	\$7,753	\$7,962	\$8,177	\$8,398	\$8,625	\$8,857	\$139,163
Fiscal	Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018		Total
Inflation	Factor	1.083	1.112	1.142	1.173	1.205	1.238	1.271	1.305	1.341	1.377	1.414	1.452	1.491	1.532	1.573	1.615	1.659	1.704	1,750		Ĕ
	Year	<del>-</del>	-5	ė,	4	-S	9-	-1	8-	Ģ	-10	÷	-12	-13	-14	-15	-16	-17	-18	-19	-20	

3/14/97

#### Red/Spanish Pass Diversion (PBA-11)

Project Construction Years	•		
	क	Total Project Years	24
interest Rate	7.38%	Amoritization Factor	0.0971616
Total First Costs	\$6,371,600	Total Fully Funded Costs	\$7,283,600

Average Annual	\$623,000 \$23,600 \$7,500 \$500	\$654,600	210	\$3,117	31
Present	\$6,411,800 \$242,800 \$76,800 \$5,100	\$6,736,500			
Annual Charges	Interest & Amortization Monitoring O & M Costs Other Costs	Total	Average Annual Habitat Units	Cost Per Habitat Unit	Average Annual Acres of Emergent Marsh

D-107

## Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

#### Red/Spanish Pass Diversion (PBA-11)

#### First Costs and Annual Charges

NR.	Supervision & Supervision First Cost Total First	Administration & Inspection Contingency Construction Cost		05 05	90703 05 05	05 05	\$371.765 \$971.236 \$3.884.943 \$3	272,500	\$91,699 \$371,765 \$971,236 \$3,884,943 \$5,905,114												,,										
Federal	Supervision &	Administration	0\$	\$0	\$8,261		•		\$55,765	Other	Costs	\$500	\$500	\$500	\$200	\$200	\$200	\$500	\$500	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$500
	Easements	& Land Rights	<b>\$</b>	<b>9</b>	\$40,000	0\$	\$0		\$40,000	08M	Costs	<b>9</b>	<b>9</b>	<b>\$</b>	<b>\$</b>	\$50,000	<b>\$</b>	<b>\$</b>	\$0	\$0	\$50,000	<b>\$</b>	\$0	\$0	0\$	\$50,000	<b>9</b>	<b>9</b>	<b>\$</b>	<b>9</b>	20
	Engineering	& Design	<b>\$</b>	<b>\$</b>	\$210,882	\$278,824	<b>9</b>		\$489,706	Monitoring	Costs	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593	\$23,593
	Fiscal	Year		1997	1998	1999	2000		TOTAL	Fiscal	Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
		- 1	5 Compound	4 Compound	3 Compound	2 Compound	1 Compound	Base Year			Year	1 Discount	2 Discount	3 Discount	4 Discount	5 Discount	6 Discount	7 Discount	8 Discount	9 Discount	0 Discount	1 Discount	2 Discount	3 Discount	4 Discount	5 Discount	6 Discount	7 Discount	18 Discount	19 Discount	20 Discount

D-108

3/14/97

Costs amortized over 20 year operation life

### Coastal Wellands Conservation and Restoration Plan Priority Project List VI

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#### Red/Spanish Pass Diversion (PBA-11)

	Amortized Costs \$654,537	,	ervision First Cost Total Fuet	Contingency Construction	COST 1000000000000000000000000000000000000			20	0\$				,							•															
	\$6,736,578	Federal LDNR	Supervision & Supervision & Supervision	Administration Administration & Inspection	\$0		C 717		410,004	\$103.087	•	Olher	Costs	\$466	\$434	\$404	\$376	\$350	\$326	\$304	\$283	\$264	\$245	\$229	\$213	\$198	\$185	\$172	\$160	\$149	\$139	\$129	\$120	\$5,146	\$500
•	ed Costs		Easements	& Land Rights	<u>\$</u>	<b>S</b>	\$49.519	9	<b>S</b>	\$49,519			Costs	<b>%</b>	<b>≎</b>	\$0	<b>S</b>	\$35,031	\$0	0 <b>\$</b>	\$0	0\$	\$24,544	0\$	<b>\$</b>	<b>%</b>	0 <b>\$</b>	\$17,196	90	\$0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$76,771	\$7,459
	Total Discounted Costs		Engineering	& Design	<b>3</b>	<b>\$</b>	\$261,066	\$321,467	80	\$582,532	Monitoring	gillioning.	COStS	\$21,973	\$20,463	\$19,058	\$17,749	\$16,530	\$15,394	\$14,337	\$13,352	\$12,435	\$11,581	\$10,786	\$10,045	\$9,355	\$8,712	\$8,114	\$7,557	\$7,038	\$6,554	\$6,104	\$5,685	\$242,822	\$23,593
	S	i	Fiscal		<b>-</b>	1997	1998	1999	2000	Total	Fiscal	2007	Lea	2001	2002	2003	2004	2002	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	<del>-</del>	
	Present Valued Costs		Compound	1 407	1747	1.329	1.238	1.153	1.074	Tc	Discount	Rates	2000	0.931	0.867	0.808	0.752	0.701	0.653	0.608	0.566	0.527	0.491	0.457	0.426	0.397	0.369	0.344	0.320	0.298	0.278	0.259	0.241	Total	Average Annual
	Prese		Year	2 4		4	6	2	-			Year				ب 09		က်	Ģ	-1	φ	ġ	-10	÷	-15	<del>.</del> 13	-14	-15	-16	-12	-18	61-	-50		٩

#### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

#### Red/Spanish Pass Diversion (PBA-11)

	•								2	700'1014
					Federal	LDNR				
3	Inflation	Fiscal	Engineering	Easements		Supervision & Supervision	Supervision		First Cost	Total First
5	racio	rear	& Design	6 Land Rights	- (	Administration Administration & Inspection	& Inspection	Contingency	Construction	Cost
c		0	<b>3</b>	S	<b>9</b>	<b>9</b>	0\$	<b>9</b>	20	205
4	1 000	1997	<b>\$</b>	<b>S</b>	<b>9</b>	<b>2</b> 0	<b>\$</b>	9	9	Ş
~	1.027	1998	\$216,576	\$41,080	\$8.485	\$11.8	9	9	\$	E90 / / C3
7	1.055	1999	\$294,083	\$0	\$26,141		9	9		425.03.03.03.03.03.03.03.03.03.03.03.03.03.
-	1 083	2000	<b>\$</b>	<b>9</b>	\$24,609	\$49,454	\$402,698	\$1 052 049	\$4 208 196	45 737 007
	1	TOTAL	\$510,660	\$41,080	\$59,235	\$97,698	\$402,698	\$1,052,049	\$4,208,196	\$6,371,616
	Inflation	Fiscal	Monitoring	O&M	Other					
Year	Factor	Year	Costs	Costs	Costs					
÷	1.112	2001	\$26,233	0\$	\$556	3				
?	1 142	2002	\$26,955	<b>0\$</b>	\$571					
Ģ	1.173	2003	\$27,683	0\$	\$587					
4	1.205	2004	\$28,430	<b>\$</b>	\$603					
ċ	1.238	2005	\$29,198	\$61,878	\$619					
Ģ	1.271	2006	\$29,986	<b>0\$</b>	\$635					
-1	1.305	2007	\$30,796	0\$	\$653					
8	1.341	2008	\$31,627	0\$	\$670					
ç	1.377	2009	\$32,481	<b>0</b> \$	\$688	•				
9:	1.414	2010	\$33,358	\$70,695	\$707					
=	1.452	2011	\$34,259	0\$	\$726					
-15	1.491	2012	\$35,184	<b>9</b>	\$746					
÷	1.532	2013	\$36,134	<b>\$</b>	\$766					
-14	1.573	2014	\$37,109	<b>9</b>	\$786					
-15	1.615	2015	\$38,111	\$80,768	\$808					
-19	1.659	2016	\$39,140	0\$	\$829					
-17	1.704	2017	\$40,197	<b>0\$</b>	\$852					
-18	1.750	2018	\$41,282	<b>\$</b>	\$875					
-19	1.797	2019	\$42,397	<b>\$</b>	\$899					
-50	1.846	2020	\$43,541	20	\$923					
	<u>_</u>	1	000 7000	0.00						

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## Dedicated Dredging for Marsh Creation at West Pointe a la Hache (CW-4)

Project Construction Years:	<b>4</b>	Total Project Years	24
Interest Rate	7.38%	Amoritization Factor	0.0971616
Total First Costs	\$12,106,500	Total Fully Funded Costs	\$12,263,900

Average	\$1,294,800 \$4,900 \$0 \$500	\$1,300,200	466	\$2,790	633
Present Worth	\$13,326,000 \$50,700 \$0 \$5,100	\$13,381,800			
Annual Charges	Interest & Amortization Monitoring O & M Costs Other Costs	Total	Average Annual Habitat Units	Cost Per Habitat Unit	Average Annual Acres of Emergent Marsh

### Coastal Wellands Conservation and Restoration Plan Priority Project List VI

## Dedicated Dredging for Marsh Creation at West Pointe a la Hache (CW-4)

#### First Costs and Annual Charges

				Federal	LDNR				
	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Year	Year	& Design	& Land Rights	Administration	Administration Administration & Inspection	& Inspection	Contingency	Construction	Cost
5 Compound		<b>9</b>	<b>S</b>	0\$	<b>9</b>	<b>%</b>	<b>%</b>	<b>9</b>	<b>9</b>
_	1997	\$36,000	\$163,000	<b>9</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	\$199,000
3 Compound	1998	\$333,000	<b>S</b>	\$309,565	\$61,913	\$63,571	\$127,143	\$508,571	\$1,403,764
_	1999	<b>\$</b>	\$0	\$371,478	\$74,296	\$762,857	\$1,525,714	\$6,102,857	\$8,837,202
1 Compound	2000	<b>%</b>	<b>\$</b>	\$340,522	\$17,191	\$63,571	\$127,143	\$508,571	\$1,056,999
ľ	TOTAL	\$369,000	\$163,000	\$1,021,565	\$153,400	\$890,000	\$1,780,000	\$7,120,000	\$11,496,965
	Fiscal	Monitoring	OSM	Other					
Year	Year	Costs	Costs	Costs					
1 Discount	2001	\$4,929	0\$	\$500					
2 Discount	2002	\$4,929	<b>\$</b>	\$200					
3 Discount	2003	\$4,929	<b>\$</b>	\$200					
4 Discount	2004	\$4,929	<b>\$</b>	\$200					
5 Discount	2005	\$4,929	<b>S</b>	\$200					
6 Discount	2006	\$4,929	<b>9</b>	\$200					
7 Discount	2007	\$4,929	<b>9</b>	\$200					
8 Discount	2008	\$4,929	<b>\$</b>	\$200	:				
9 Discount	2009	\$4,929	<b>9</b>	\$200					
10 Discount	2010	\$4,929	<b>9</b>	\$200					
11 Discount	2011	\$4,929	<b>≎</b>	\$200					
12 Discount	2012	\$4,929	<b>\$</b>	\$200					
13 Discount	2013	\$4,929	<b>\$</b>	\$200					
14 Discount	2014	\$4,929	<b>%</b>	\$200					
15 Discount	2015	\$4,929	<b>9</b>	\$200					
16 Discount	2016	\$4,929	<b>≎</b>	\$200					
17 Discount	2017	\$4,929	<b>%</b>	\$200					
18 Discount	2018	\$4,929	\$0	\$200					
19 Discount	2019	\$4,929	<b>\$</b>	\$200					
20 Discount	2020	\$4,929	\$0	\$200					
•	Total	\$98,580	0\$	\$10,000					

Costs amortized over 20 year operation life

### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

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## Dedicated Dredging for Marsh Creation at West Pointe a la Hache (CW-4)

			-		ě					
Prese	Present Valued Costs	s)	Total Discounted Costs	ed Costs	\$13,381,924			Amortized Costs	ş	\$1,300,209
				<del>-</del>	Federal	LDNR				
:	ర	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Year	Ra	Year	& Design	& Land Rights	Administration	Administration Administration & Inspection	& Inspection	Contingency	Construction	Cost
2	_	0	Ş	<b>%</b>	0 <b>\$</b>	0 <b>5</b>	90	0\$	<b>9</b>	<b>6</b> 0
4	_	1997	\$47,854	\$216,671	<b>\$</b>	<b>S</b>	<b>S</b>	S	<b>S</b>	\$264 K24
3	1.238	1998	\$412,243	0\$	\$383,232	\$76.646	\$78 699	\$157.399	6620 605	4204,324
2	1.153	1999	9	<b>S</b>	\$428 292	\$85.658	\$879.52R	£4 750 056	CEC, E.20\$	640,404,040
-	1.074	2000	<b>S</b>	0 <b>\$</b>	\$365,635	\$18.459	\$68.260	\$136,520	\$7,030,222 \$546,070	\$10,188,756
	T	Total	\$460,097	\$216,671	\$1,177,159	\$180,764	\$1,026,487	\$2,052,974	\$8,211,896	\$13,326,048
	Discount	Fiscal	Monitoring	O&M	Other					
Year	Rates	Year	Costs	Costs	Costs		<b>.</b> .			
7	0.931	2001	\$4,590	0\$	\$466					
-5	0.867	2002	\$4,275	<b>%</b>	\$434					
ę.	0.808	2003	\$3,982	<b>%</b>	\$404					
4		2004	\$3,708	<b>\$</b>	\$376					
ċ		2002	\$3,453	<b>S</b>	\$350					
9		2006	\$3,216	<b>%</b>	\$326					
-7	0.608	2007	\$2,995	0\$	\$304					
₽-		2008	\$2,790	<b>\$</b>	\$283					
6-		2009	\$2,598	<b>%</b>	\$264					
-10		2010	\$2,420	\$0	\$245					
-1	0.457	2011	\$2,253	<b>%</b>	\$229					
-12	0.426	2012	\$2,099	<b>\$</b>	\$213					
-13	0.397	2013	\$1,954	<b>\$</b> 0	\$198					
-14	0.369	2014	\$1,820	<b>9</b> 0	\$185					
-15	0.344	2015	\$1,695	<b>%</b>	\$172					
-16	0.320	2016	\$1,579	\$0	\$160					
-17	0.298	2017	\$1,470	<b>\$</b> 0	\$149					
-18	0.278	2018	\$1,369	<b>\$</b>	\$139					
-19	0.259	2019	\$1,275	<b>\$</b> 0	\$129					
-20	0.241	2020	\$1,188	\$0	\$120					
	Total	tal	\$50,730	0\$	\$5,146					
	Average Annual	72	\$4,929	0 <b>\$</b>	\$500			٠		

D-113

### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

## Dedicated Dredging for Marsh Creation at West Pointe a la Hache (CW4)

IJ T	Fully Funded Costs		Total Fully Fun	Fully Funded Costs	\$12,263,886			Amortized Costs	ខ	\$1,191,579
					Federal	LDNR				
7697	tnflation Factor	Fiscal	Engineering & Deston	Easements & Land Rinhts	Supervision & Administration	Supervision & Supervision & Supervision Administration Administration Administration	Supervision & Inspection	Continuency	First Cost	Total First Cost
, s		0	0\$	<b>S</b> 0	<b>\$</b>	\$0	90		80	0\$
4	1.000	1997	\$36,000	\$163,000	<b>S</b>	<b>S</b>	<b>S</b>	\$0	. <b>.</b>	\$199,000
ო	1.027	1998	\$341,991	<b>0\$</b>	\$317,923	\$63,585	\$65,288	\$130,576	\$522,303	\$1,441,666
7	1.055	1999	<b>9</b>	<b>9</b>	\$391,809	\$78,362	\$804,608	\$1,609,215	\$6,436,860	\$9,320,854
-	1.083	2000	<b>\$</b>	<b>9</b>	\$368,855	\$18,622	\$68,861	\$137,722	\$550,888	\$1,144,948
	1	TOTAL	\$377,991	\$163,000	\$1,078,588	\$160,568	\$938,756	\$1,877,513	\$7,510,051	\$12,106,467
	Inflation	Fiscal	Monitoring	O&M	Other					
Year	Factor	Year	Costs	Costs	Costs					
-	1.112	2001	\$5,481	<b>%</b>	\$556	_				
-5	1.142	2002	\$5,631	<b>\$</b>	\$571					
ę,	1.173	2003	\$5,783	<b>\$</b>	\$587					
4	1.205	2004	\$5,940	<b>≎</b>	\$603					
-5	1.238	2005	\$6,100	<b>\$</b>	\$619					
9	1.271	2008	\$6,265	<b>S</b>	\$635					
-7	1.305	2007	\$6,434	<u>\$</u>	\$653					
æ	1.341	2008	\$6,607	<b>\$</b>	\$670					
6	1.377	2009	\$6,786	<b>9</b>	\$688					
÷.	1.414	2010	696'9\$	<b>\$</b>	\$707					
÷	1.452	2011	\$7,157	<b>S</b>	\$726					
-12	1.491	2012	\$7,350	<b>9</b>	\$746					
-13	1.532	2013	\$7,549	<b>\$</b>	\$766					
-14	1.573	2014	\$7,753	<b>9</b>	\$786					
-15	1.615	2015	\$7,962	<b>%</b>	\$808					
-16	1.659	2016	\$8,177	\$0	\$829					
-17	1.704	2017	\$8,398	<b>\$</b>	\$852					
-18	1.750	2018	\$8,625	\$0	\$875					
-19	1.797	2019	\$8,857	\$	\$899					
-20	1.846	2020	260'6\$	<b>%</b>	\$923	·				
	ì	Total	\$142 920	9	\$14.498					

Costs amortized over 20 year operation life

## Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

### Coastal Breakwater Placement at Rockefeller Refuge (PME-2)

23	0.0971616	\$5,832,800
Total Project Years	Amoritization Factor	Total Fully Funded Costs
m	7.38%	\$4,097,400
Project Construction Years:	Interest Rate	Total First Costs

Annual Charges	Present Worth	Average Annual
Interest & Amortization Monitoring O & M Costs Other Costs	\$4,229,600 \$25,200 \$589,000 \$5,100	\$411,000 \$2,400 \$57,200 \$500
Total .	\$4,848,900	\$471,100
Average Annual Habitat Units		18
Cost Per Habitat Unit		\$26,172
Average Annual Acres of Emergent Marsh		24

#### Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

#### Coastal Breakwater Placement at Rockefeller Refuge (PME-2)

First Costs and Annual Charges

Total						Federal	LDNR				
Compound         Year         & Design         & Land Rights         Administration Administration Administration Contingency         Compound         Storage (Compound)         Storage (Compound)         Storage (Compound)         Storage (Compound)         Storage (Compound)         Storage (Compound)         Storage (Storage)			Fiscal	Engineering	Easements	Supervision &		Supervision		First Cost	Total First
Compound         \$6         <	Year		Year	& Design	& Land Rights	Administration		& Inspection	Contingency	Construction	Cost
Compound         190         \$1	_	Compound		<b>2</b>	<b>9</b>	<b>9</b>	<b>≎</b>	0\$	0 <b>\$</b>	<b>0\$</b>	0\$
Compound Compound (1997 \$13,000)         \$13,000         \$10,000 <t< td=""><td>4</td><td>Compound</td><td></td><td><b>\$</b></td><td><b>\$</b></td><td><b>\$</b></td><td><b>\$</b></td><td><b>\$</b></td><td><b>9</b></td><td><b>9</b></td><td><b>S</b></td></t<>	4	Compound		<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>9</b>	<b>9</b>	<b>S</b>
Compound         1996         \$254,000         \$160,000         \$32,000         \$600,000         \$22,400,000           Base Year         TOTAL         \$286,000         \$13,000         \$26,000         \$300,000         \$22,400,000           House Year         TOTAL         \$286,000         \$13,000         \$240,000         \$300,000         \$22,400,000           Indiana         Moniloring         OSAB         COSIS	<u>.</u> ص	Compound	1997	\$34,000	\$13,000	<b>\$</b>	<b>\$</b>	<b>%</b>	<b>%</b>	<b>9</b>	\$47,000
Compound Base Year         1989         \$0         \$0         \$26,000         \$500,000         \$5	~	Compound	1998	\$254,000	<b>\$</b>	\$160,000	\$32,000	<b>\$</b>	\$0	<b>\$</b>	\$446,000
Fiscal   Monitoring   O&M   Other   Year   Coasts   Coa	<b>—</b>	Compound	1999	<b>\$</b>	<b>≎</b>	\$80,000	\$26,000		\$600,000	\$2,400,000	\$3,406,000
Fiscal         Monitoring         O&M         Other           Year         Costs		1	TOTAL	\$288,000	\$13,000	\$240,000	\$58,000	\$300,000	\$600,000	\$2,400,000	\$3,899,000
Year         Costs         Cost           Discount         2000         \$2.451         \$0           Discount         2001         \$2.451         \$0           Discount         2003         \$2.451         \$0           Discount         2003         \$2.451         \$0           Discount         2004         \$2.451         \$0           Discount         2005         \$2.451         \$0           Discount         2006         \$2.451         \$0           Discount         2008         \$2.451         \$0           Discount         2009         \$2.451         \$0           Discount         2010         \$2.451         \$0           Discount         2011         \$2.451         \$0           Discount         2012         \$2.451         \$0           Discount         2014         \$2.451         \$0           Discount         2016         \$2.451         \$0           Discount         2016         \$2.451         \$0           Discount         2016         \$2.451         \$0           Discount         2017         \$2.451         \$0           Discount         2018         \$2			Fiscal	Monitoring	08M	Other					
Discount         2000         \$2,451         \$0           Discount         2001         \$2,451         \$0           Discount         2002         \$2,451         \$0           Discount         2003         \$2,451         \$0           Discount         2004         \$2,451         \$0           Discount         2005         \$2,451         \$0           Discount         2006         \$2,451         \$0           Discount         2008         \$2,451         \$0           Discount         2010         \$2,451         \$0           Discount         2011         \$2,451         \$0           Discount         2012         \$2,451         \$0           Discount         2013         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2015         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount <td< td=""><td>Year</td><td></td><td>Year</td><td>Costs</td><td>Costs</td><td>Costs</td><td></td><td></td><td></td><td></td><td></td></td<>	Year		Year	Costs	Costs	Costs					
Discount         2001         \$2,451         \$0           Discount         2002         \$2,451         \$0           Discount         2004         \$2,451         \$0           Discount         2004         \$2,451         \$0           Discount         2006         \$2,451         \$0           Discount         2006         \$2,451         \$0           Discount         2008         \$2,451         \$0           Discount         2010         \$2,451         \$0           Discount         2012         \$2,451         \$0           Discount         2012         \$2,451         \$0           Discount         2013         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount <td< td=""><td>-</td><td>Discount</td><td>2000</td><td>\$2,451</td><td><b>0\$</b></td><td>\$200</td><td>•</td><td></td><td></td><td></td><td></td></td<>	-	Discount	2000	\$2,451	<b>0\$</b>	\$200	•				
Discount         2002         \$2,451         \$0           Discount         2003         \$2,451         \$0           Discount         2004         \$2,451         \$0           Discount         2006         \$2,451         \$0           Discount         2006         \$2,451         \$0           Discount         2008         \$2,451         \$0           Discount         2010         \$2,451         \$0           Discount         2010         \$2,451         \$0           Discount         2011         \$2,451         \$0           Discount         2012         \$2,451         \$0           Discount         2013         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount <td< td=""><td>7</td><td>Discount</td><td>2001</td><td>. \$2,451</td><td><b>\$</b></td><td>\$200</td><td></td><td></td><td></td><td></td><td></td></td<>	7	Discount	2001	. \$2,451	<b>\$</b>	\$200					
Discount         2003         \$2,451         \$0           Discount         2004         \$2,451         \$0           Discount         2005         \$2,451         \$0           Discount         2006         \$2,451         \$0           Discount         2008         \$2,451         \$0           Discount         2008         \$2,451         \$0           Discount         2010         \$2,451         \$0           Discount         2011         \$2,451         \$0           Discount         2012         \$2,451         \$0           Discount         2013         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2017         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount <td< td=""><td>က</td><td>Discount</td><td>2002</td><td>\$2,451</td><td>0\$</td><td>\$200</td><td></td><td></td><td></td><td></td><td></td></td<>	က	Discount	2002	\$2,451	0\$	\$200					
Discount         2004         \$2,451         \$0           Discount         2005         \$2,451         \$0           Discount         2007         \$2,451         \$0           Discount         2007         \$2,451         \$0           Discount         2008         \$2,451         \$0           Discount         2010         \$2,451         \$0           Discount         2011         \$2,451         \$0           Discount         2012         \$2,451         \$0           Discount         2013         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2015         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2017         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount         2019         \$2,451         \$0           Discount         2019         \$2,451         \$0           Discount <td< td=""><td>4</td><td>Discount</td><td>2003</td><td>\$2,451</td><td><b>\$</b></td><td>\$200</td><td></td><td></td><td></td><td></td><td></td></td<>	4	Discount	2003	\$2,451	<b>\$</b>	\$200					
Discount         2005         \$2,451         \$0           Discount         2006         \$2,451         \$0           Discount         2007         \$2,451         \$0           Discount         2008         \$2,451         \$0           Discount         2010         \$2,451         \$0           Discount         2011         \$2,451         \$0           Discount         2012         \$2,451         \$0           Discount         2013         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2015         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2017         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount         2019         \$2,451         \$0           Discount         2019         \$2,451         \$0	2	Discount	2004	\$2,451	<b>\$</b>	\$200					
Discount         2006         \$2,451         \$0           Discount         2007         \$2,451         \$0           Discount         2008         \$2,451         \$0           Discount         2010         \$2,451         \$0           Discount         2011         \$2,451         \$0           Discount         2011         \$2,451         \$0           Discount         2012         \$2,451         \$0           Discount         2013         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2015         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2015         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2017         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount         2019         \$2,451         \$0           Discount         2019         \$2,451         \$0           Discount         2019         \$2,451         \$0		Discount	2005	\$2,451	<b>≎</b>	\$200					
Discount         2007         \$2,451         \$0           Discount         2008         \$2,451         \$0           Discount         2010         \$2,451         \$1,200,000           Discount         2011         \$2,451         \$0           Discount         2011         \$2,451         \$0           Discount         2012         \$2,451         \$0           Discount         2013         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2015         \$2,451         \$0           Discount         2015         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount         2019         \$2,451         \$0           Discount         2019         \$2,451         \$0	7	Discount	2006	\$2,451	<b>9</b>	\$200					
Discount         2008         \$2,451         \$0           Discount         2009         \$2,451         \$1,200,000           Discount         2010         \$2,451         \$0           Discount         2011         \$2,451         \$0           Discount         2012         \$2,451         \$0           Discount         2013         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2015         \$2,451         \$0           Discount         2015         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2017         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount         2019         \$2,451         \$0           Discount         2019         \$2,451         \$0	80	Discount	2007	\$2,451	<b>\$</b>	\$200					
Discount         2009         \$2,451         \$1,200,000           Discount         2010         \$2,451         \$0           Discount         2011         \$2,451         \$0           Discount         2012         \$2,451         \$0           Discount         2013         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2015         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2017         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount         2019         \$2,451         \$0           Total         \$49,020         \$1,200,000	6	Discount	2008	\$2,451	<b>\$</b>	\$200					
Discount         2010         \$2,451         \$0           Discount         2011         \$2,451         \$0           Discount         2012         \$2,451         \$0           Discount         2013         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2015         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2017         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount         2019         \$2,451         \$0           Discount         2019         \$2,451         \$0           Total         \$2,451         \$0	01	Discount	2009	\$2,451	\$1,200,000	\$200					
Discount         2011         \$2,451         \$0           Discount         2012         \$2,451         \$0           Discount         2013         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2015         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2017         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount         2019         \$2,451         \$0           Total         \$2,451         \$0	=	Discount	2010	\$2,451	<b>9</b>	\$200					
Discount         2012         \$2,451         \$0           Discount         2013         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2015         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2017         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount         2019         \$2,451         \$0           Total         \$49,020         \$1,200,000	_	Discount	2011	\$2,451	<b>\$</b>	\$200					
Discount         2013         \$2,451         \$0           Discount         2014         \$2,451         \$0           Discount         2015         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2017         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount         2019         \$2,451         \$0           Discount         2019         \$2,451         \$0           Total         \$49,020         \$1,200,000	_	Discount	2012	\$2,451	<b>9</b>	\$200					
Discount         2014         \$2,451         \$0           Discount         2015         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2017         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount         2019         \$2,451         \$0           Total         \$49,020         \$1,200,000		Discount	2013	\$2,451	<b>%</b>	\$200					
Discount         2015         \$2,451         \$0           Discount         2016         \$2,451         \$0           Discount         2017         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount         2019         \$2,451         \$0           Total         \$49,020         \$1,200,000		Discount	2014	\$2,451	<b>\$</b>	\$200					
Discount         2016         \$2,451         \$0           Discount         2017         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount         2019         \$2,451         \$0           Total         \$49,020         \$1,200,000	_	Discount	2015	\$2,451	<b>\$</b>	\$200					
Discount         2017         \$2,451         \$0           Discount         2018         \$2,451         \$0           Discount         2019         \$2,451         \$0           Total         \$49,020         \$1,200,000		Discount	2016	\$2,451	<b>\$</b>	\$200					
Discount 2018 \$2,451 \$0  Discount 2019 \$2,451 \$0  Total \$49,020 \$1,200,000		Discount	2017	\$2,451	<b>9</b>	\$200					
Discount 2019 \$2,451 \$0  Total \$49,020 \$1,200,000		Discount	2018	\$2,451	<b>S</b>	\$200					
\$49,020 \$1,200,000		Discount	2019	\$2,451	<b>%</b>	\$200					
			Total	\$49,020	\$1,200,000	\$10,000					

3/14/97

### Coastal Wetlands Conservation and Restoration Plan Propert List VI

#### Coastal Breakwater Placement at Rockefeller Refuge (PME-2)

					4					
Prese	Present Valued Costs	S)	Total Discounted Costs	ed Costs	\$4,849,006			Amortized Costs	S)	\$471,137
		i			Federal	LDNR				-
Year	Compound	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	<b>Total First</b>
3	1	-		& Land Kignis	Administration	Administration Administration & Inspection	& Inspection	Contingency	Construction	Cost
C ·	1.421	0	<b>3</b>	<b>چ</b>	<b>\$</b>	<b>\$</b>	<b>9</b>	90	9	9
す	1.329	0	<b>\$</b>	<b>9</b>	\$0	90	05	\$	\$ 5	9
3	1.238	1997	\$42,091	\$16,094	90	OS.	9	\$ 5		0.00
7	1.153	1998	\$292,847	90	\$184 470	\$36 A94	<b>\$</b>			\$26,185
1	1.074	1999	0\$	<b>9</b>	\$85,900	\$27.918	\$322 125	\$644.250	000 223 04	\$514,211
	1	Total	\$334,937	\$16,094	\$270,370	\$64,812	\$322,125	\$644,250	\$2,577,000	\$4,229,588
	Discount	Fiscal	Monitoring	08M	Other					
Year	_	Year	Costs	Costs	Costs					
7	0.931	2000	\$2,283	90	\$466					
-5	0.867	2001	\$2,126	<b>S</b>	\$434			ر		
ė.	0.808	2002	\$1,980	<b>S</b>	\$404					
4	0.752	2003	\$1,844	<b>9</b>	\$376					
ငှ	0.701	2004	\$1,717	· <b>\$</b>	\$350					
Ģ	0.653	2002	\$1,599	<b>\$</b>	\$326					
7-	0.608	2006	\$1,489	0 <b>\$</b>	\$304					
ထု	0.566	2007	\$1,387	<b>0\$</b>	\$283					
6-	0.527	2008	\$1,292	<b>0\$</b>	\$264					
-10	0.491	2009	\$1,203	\$589,046	\$245					
-11	0.457	2010	\$1,120	<b>%</b>	\$229					
-12	0.426	2011	\$1,044	<b>0\$</b>	\$213					
<u>-13</u>	0.397	2012	\$972	<b>%</b>	\$198					
-14	0.369	2013	\$905	<b>0\$</b>	\$185					
-15	0.344	2014	\$843	,0\$	\$172					
-16	0.320	2015	\$785	0\$	\$160			ž		
-17	0.298	2016	\$731	0 <b>\$</b>	\$149					
-18	0.278	2017	\$681	o <b>\$</b>	\$139					
-19	0.259	2018	\$634	0 <b>\$</b>	\$129					
-20	0.241	2019	\$591	0 <b>\$</b>	\$120					
	Total	TE .	\$25,226	\$589,046	\$5,146					
	Average Annual	<del></del>	\$2.451	\$57.933	6500					
				201,100	35					

D-117

3/14/97

Costs amortized over 20 year operation life

#### Coastal Wetlands Conșervation and Restoration Plan Priority Project List VI

#### Coastal Breakwater Placement at Rockefeller Refuge (PME-2)

Inflation   Fiscal   Engineering   Easements   Supervision & Supervisi	Fully F	Fully Funded Costs		Total Fully Funded Costs	nded Costs	\$5,832,829			Amortized Costs	SI SI	\$566,727
Factor   Year   Engineering   Easements Supervision & Supervision   Administration & Inspection Confinence   Construction						Federal	LDNR				
Tactor   Total   Tactor   Tactor   Total   Tactor	,	Inflation	Fiscal	Engineering	Easements	Supervision &	Supervision &	Supervision		First Cost	<b>Total First</b>
1000   1997   \$44,000   \$13,000	rear	Factor	- 1	& Design	& Land Rights	Administration	Administration	& Inspection	Contingency	Construction	Cost
1000   1997   434,000   413,000	ဂ		0	<b>2</b>	<b>,</b>	<b>9</b>	<b>9</b>	0\$	<b>9</b>	20	1
1000   1987   \$34,000   \$13,000   \$6,147.00   \$10,000	4		0	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>9</b>	9	S	5
1027   1988   \$280,856   \$10   \$104,320   \$12,864   \$50   \$60   \$10	က	1.000	1997	\$34,000	\$13,000	0\$	<b>9</b>	<b>S</b>	S	\$	£47.000
1055   1999   \$10   \$284,056   \$13,000   \$248,696   \$60,287   \$531,350   \$100   \$12,000   \$248,696   \$60,287   \$13,000   \$248,696   \$60,287   \$13,000   \$248,696   \$60,287   \$13,000   \$248,696   \$60,287   \$13,041	7	1.027	1998	\$260,858	<b>9</b>	\$164,320	\$32.864	S	\$ 5		4450.042
Inflation         Fiscal Factor         St04,858         \$13,000         \$248,698         \$60,287         \$316,419         \$632,837         \$2,531,350           Inflation         Fiscal Factor         Vear         Costs         Costs         Costs         Costs         \$2,655         \$6         \$6,287         \$2,531,350 </td <td>-</td> <td>1.055</td> <td>1999</td> <td><b>9</b></td> <td><b>\$</b></td> <td>\$84,378</td> <td>\$27,423</td> <td>\$316.419</td> <td>\$632,837</td> <td>\$2 531 350</td> <td>\$1 592 407</td>	-	1.055	1999	<b>9</b>	<b>\$</b>	\$84,378	\$27,423	\$316.419	\$632,837	\$2 531 350	\$1 592 407
Inflation         Fiscal         Monitoring         O&M         Other           1.083         2000         \$2,655         \$0           1.1083         2000         \$2,655         \$0           1.112         2001         \$2,725         \$0           1.112         2002         \$2,800         \$0           1.173         2003         \$2,953         \$0           1.205         2004         \$2,953         \$0           1.205         2004         \$2,953         \$0           1.205         2004         \$2,953         \$0           1.206         \$3,115         \$0           1.271         2006         \$3,115         \$0           1.271         2006         \$3,175         \$0           1.305         2007         \$3,186         \$0           1.377         2009         \$3,374         \$1,652,062           1.444         2010         \$3,465         \$0           1.452         2011         \$3,655         \$0           1.573         2014         \$3,655         \$0           1.573         2014         \$4,066         \$0           1.766         \$4,066         \$0		1	OTAL	\$294,858	\$13,000	\$248,698	\$60,287	\$316,419	\$632,837	\$2,531,350	\$4,097,449
Factor         Year         Costs         Costs         Costs           1.083         2000         \$2,655         \$0           1.112         2001         \$2,725         \$0           1.142         2002         \$2,876         \$0           1.173         2003         \$2,953         \$0           1.205         2004         \$2,953         \$0           1.205         2004         \$2,953         \$0           1.271         2006         \$3,115         \$0           1.271         2006         \$3,115         \$0           1.341         2007         \$3,199         \$0           1.377         2008         \$3,286         \$0           1.377         2009         \$3,465         \$0           1.414         2010         \$3,465         \$0           1.452         2011         \$3,559         \$0           1.532         2013         \$3,559         \$0           1.573         2014         \$3,959         \$0           1.569         2015         \$4,066         \$0           1.797         2019         \$4,176         \$0           1.791         2019         \$4,404 </td <td></td> <td>Inflation</td> <td>Fiscal</td> <td>Monitoring</td> <td>0<b>8</b>M</td> <td>Other</td> <td></td> <td></td> <td></td> <td></td> <td></td>		Inflation	Fiscal	Monitoring	0 <b>8</b> M	Other					
1.083     2000     \$2,655     \$0       1.112     2001     \$2,725     \$0       1.112     2002     \$2,800     \$0       1.173     2003     \$2,805     \$0       1.205     2004     \$2,953     \$0       1.238     2005     \$3,103     \$0       1.271     2006     \$3,115     \$0       1.371     2008     \$3,199     \$0       1.341     2008     \$3,199     \$0       1.377     2009     \$3,465     \$0       1.444     2010     \$3,465     \$0       1.452     2011     \$3,559     \$0       1.491     2012     \$3,655     \$0       1.532     2014     \$3,855     \$0       1.573     2014     \$3,959     \$0       1.573     2015     \$4,066     \$0       1.704     2017     \$4,176     \$0       1.750     2019     \$4,289     \$0       1.797     \$69,200     \$1,652,062     \$14	Year	Factor	Year	Costs	Costs	Costs					
1.112     2001     \$2,725     \$0       1.142     2002     \$2,800     \$0       1.142     2003     \$2,876     \$0       1.205     2004     \$2,953     \$0       1.205     2004     \$2,953     \$0       1.238     2005     \$3,115     \$0       1.271     2006     \$3,115     \$0       1.305     2007     \$3,199     \$0       1.341     2008     \$3,286     \$0       1.377     2009     \$3,465     \$0       1.444     2010     \$3,465     \$0       1.452     2011     \$3,559     \$0       1.491     2012     \$3,754     \$0       1.532     2014     \$3,855     \$0       1.532     2014     \$3,855     \$0       1.615     2016     \$4,066     \$0       1.704     2017     \$4,176     \$0       1.704     2019     \$4,404     \$0       1.797     \$69,200     \$1,652,062     \$14	7	1.083	2000	\$2,655	9\$	\$542					
1.142     2002     \$2,800     \$0       1.173     2003     \$2,953     \$0       1.205     2004     \$2,953     \$0       1.238     2005     \$3,033     \$0       1.271     2006     \$3,115     \$0       1.305     2007     \$3,186     \$0       1.341     2008     \$3,286     \$0       1.377     2009     \$3,374     \$1,652,062       1.414     2010     \$3,465     \$0       1.452     2011     \$3,655     \$0       1.491     2012     \$3,655     \$0       1.532     2014     \$3,855     \$0       1.573     2014     \$3,855     \$0       1.615     2016     \$4,066     \$0       1.704     2017     \$4,176     \$0       1.797     2019     \$4,404     \$0       1.797     \$69,200     \$1,652,062     \$14	Ģ	1.112	2001	\$2,725	<b>\$</b>	\$556					
1.173       2003       \$2,953       \$0         1.205       2004       \$2,953       \$0         1.238       2005       \$3,033       \$0         1.271       2006       \$3,115       \$0         1.305       2007       \$3,195       \$0         1.341       2008       \$3,286       \$0         1.377       2009       \$3,374       \$1,652,062         1.414       2010       \$3,465       \$0         1.452       2011       \$3,559       \$0         1.491       2012       \$3,655       \$0         1.532       2013       \$3,754       \$0         1.532       2014       \$3,855       \$0         1.615       2016       \$4,066       \$0         1.659       2016       \$4,066       \$0         1.704       2019       \$4,176       \$0         1.797       2019       \$69,200       \$1,652,062       \$14         1.797       \$69,200       \$1,652,062       \$14	ę.	1.142	2002	\$2,800	<b>9</b>	\$571					
1.205     2004     \$2,953     \$0       1.238     2005     \$3,033     \$0       1.271     2006     \$3,115     \$0       1.305     2007     \$3,199     \$0       1.341     2008     \$3,286     \$0       1.377     2009     \$3,374     \$1,652,062       1.414     2010     \$3,465     \$0       1.452     2011     \$3,559     \$0       1.532     2012     \$3,559     \$0       1.532     2014     \$3,855     \$0       1.615     2016     \$4,066     \$0       1.704     2017     \$4,176     \$0       1.750     2019     \$4,404     \$0       1.797     1.797     \$69,200     \$1,652,062     \$14	7	1.173	2003	\$2,876	<b>%</b>	\$587					
1.238     2005     \$3,033     \$0       1.271     2006     \$3,115     \$0       1.305     2007     \$3,199     \$0       1.341     2008     \$3,286     \$0       1.377     2009     \$3,374     \$1,652,062       1.414     2010     \$3,465     \$0       1.452     2011     \$3,559     \$0       1.491     2012     \$3,655     \$0       1.532     2013     \$3,754     \$0       1.573     2014     \$3,855     \$0       1.659     2016     \$4,066     \$0       1.704     2017     \$4,176     \$0       1.750     2018     \$4,289     \$0       1.797     2019     \$69,200     \$1,652,062     \$14       1.797     Total     \$69,200     \$1,652,062     \$14	-5	1.205	2004	\$2,953	<b>\$</b>	\$603					
1.271     2006     \$3,115     \$0       1.305     2007     \$3,199     \$0       1.341     2008     \$3,286     \$0       1.377     2009     \$3,374     \$1,652,062       1.414     2010     \$3,465     \$0       1.452     2011     \$3,559     \$0       1.491     2012     \$3,655     \$0       1.532     2013     \$3,754     \$0       1.573     2014     \$3,855     \$0       1.615     2015     \$3,959     \$0       1.659     2016     \$4,066     \$0       1.704     2017     \$4,176     \$0       1.750     2018     \$4,289     \$0       1.797     2019     \$69,200     \$1,652,062     \$14       \$69,200     \$1,652,062     \$14	9-	1.238	2002	\$3,033	<b>\$</b>	\$619					
1.305     2007     \$3,199     \$0       1.341     2008     \$3,286     \$0       1.377     2009     \$3,374     \$1,652,062       1.414     2010     \$3,465     \$0       1.452     2011     \$3,559     \$0       1.491     2012     \$3,655     \$0       1.532     2013     \$3,754     \$0       1.573     2014     \$3,655     \$0       1.615     2015     \$3,959     \$0       1.659     2016     \$4,066     \$0       1.704     2017     \$4,176     \$0       1.750     2018     \$4,289     \$0       1.797     2019     \$4,404     \$0       1.797     \$69,200     \$1,652,062     \$14	-1	1.271	2006	\$3,115	<b>\$</b>	\$635					
1.341         2008         \$3,286         \$0           1.377         2009         \$3,374         \$1,652,062           1.414         2010         \$3,465         \$0           1.452         2011         \$3,559         \$0           1.491         2012         \$3,655         \$0           1.532         2013         \$3,754         \$0           1.573         2014         \$3,855         \$0           1.615         2015         \$3,959         \$0           1.659         2016         \$4,066         \$0           1.704         2017         \$4,176         \$0           1.750         2018         \$4,289         \$0           1.797         2019         \$4,404         \$0           1.797         1.797         \$69,200         \$1,652,062         \$14	æ	1.305	2007	\$3,199	<b>%</b>	\$653					
1.377     2009     \$3,374     \$1,652,062       1.414     2010     \$3,465     \$0       1.452     2011     \$3,559     \$0       1.491     2012     \$3,655     \$0       1.532     2013     \$3,754     \$0       1.573     2014     \$3,855     \$0       1.615     2015     \$3,959     \$0       1.659     2016     \$4,066     \$0       1.704     2017     \$4,176     \$0       1.750     2019     \$4,404     \$0       1.797     2019     \$69,200     \$1,652,062     \$14	Ģ.	1.341	2008	\$3,286	<b>\$</b>	\$670					
1.414     2010     \$3,465     \$0       1.452     2011     \$3,559     \$0       1.491     2012     \$3,655     \$0       1.532     2013     \$3,754     \$0       1.573     2014     \$3,855     \$0       1.615     2015     \$3,959     \$0       1.659     2016     \$4,066     \$0       1.704     2017     \$4,176     \$0       1.750     2018     \$4,404     \$0       1.797     2019     \$4,404     \$0       Total     \$69,200     \$1,652,062     \$14	-10	1.377	2009	\$3,374	\$1,652,062	\$688					
1.452     2011     \$3,559     \$0       1.491     2012     \$3,655     \$0       1.532     2013     \$3,754     \$0       1.573     2014     \$3,855     \$0       1.615     2015     \$3,959     \$0       1.659     2016     \$4,066     \$0       1.704     2017     \$4,176     \$0       1.750     2018     \$4,289     \$0       1.797     2019     \$4,404     \$0       Total     \$69,200     \$1,652,062     \$14	-	1.414	2010	\$3,465	<b>S</b>	\$707					
1491     2012     \$3,655     \$0       1.532     2013     \$3,754     \$0       1.573     2014     \$3,855     \$0       1.615     2015     \$3,959     \$0       1.659     2016     \$4,066     \$0       1.704     2017     \$4,176     \$0       1.750     2018     \$4,289     \$0       1.797     2019     \$4,404     \$0       Total     \$69,200     \$1,652,062     \$14	-15	1.452	2011	\$3,559	<b>\$</b>	\$726					
1.532     2013     \$3,754     \$0       1.573     2014     \$3,855     \$0       1.615     2015     \$3,959     \$0       1.659     2016     \$4,066     \$0       1.704     2017     \$4,176     \$0       1.750     2018     \$4,289     \$0       1.797     2019     \$4,404     \$0       Total     \$69,200     \$1,652,062     \$14	-13	1.491	2012	\$3,655	<b>\$</b>	\$746					
1.573     2014     \$3,855     \$0       1.615     2015     \$3,959     \$0       1.659     2016     \$4,066     \$0       1.704     2017     \$4,176     \$0       1.750     2018     \$4,289     \$0       1.797     2019     \$4,404     \$0       Total     \$69,200     \$1,652,062     \$14	-14	1.532	2013	\$3,754	<b>≎</b>	\$766					
1.615     2015     \$3,959     \$0       1.659     2016     \$4,066     \$0       1.704     2017     \$4,176     \$0       1.750     2018     \$4,289     \$0       1.797     2019     \$4,404     \$0       Total     \$69,200     \$1,652,062     \$14	-15	1.573	2014	\$3,855	<b>S</b>	\$786					
1.659 2016 \$4,066 \$0 1.704 2017 \$4,176 \$0 1.750 2018 \$4,289 \$0 1.797 2019 \$4,404 \$0 Total \$69,200 \$1,652,062 \$14	-16	1.615	2015	\$3,959	<b>\$</b>	\$808					
1.704 2017 \$4,176 \$0 1.750 2018 \$4,289 \$0 1.797 2019 \$4,404 \$0 Total \$69,200 \$1,652,062 \$1	-17	1.659	2016	\$4,066	<b>9</b>	\$829					
1.750 2018 \$4,289 \$0 1.797 2019 \$4,404 \$0 Total \$69,200 \$1,652,062 \$1	-18	1.704	2017	\$4,176	<b>\$</b>	\$852					
1.797 2019 \$4,404 \$0 Total \$69,200 \$1,652,062 \$1	-19	1.750	2018	\$4,289	<b>\$</b>	\$875					
\$69,200 \$1,652,062	-20			\$4,404	0\$	\$899					
		7	lal	\$69,200	\$1,652,062	\$14,117					

Costs amortized over 20 year operation life

#### Coastal Wetlands Planning, Protection and Restoration Act

6<sup>th</sup> Priority Project List Report

Appendix E

Wetland Value Assessment For Candidate Projects

#### Appendix E

#### Wetland Value Assessment For Candidate Projects

#### Table of Contents

	Page
Project Name	Number
Black Bayou Hydrologic Restoration (XCS-48)	R-1
Bayou Boeuf Pump Station,	
Increments 0 and 1 (XTE-32 and XTE-32i)	E-10
Delta-Wide Crevasses (PMR-10)	
Ft. Jackson/Boothville Diversion (PBA-44)	E-27
Marsh Island Hydrologic Restoration (TV5/7)	
Penchant Basin Plan, with and	
without Shoreline Stabilization (PTE-26 and PTE-26i)	E-42
Sediment Trapping at the Jaws (PTV-19b)	E-74
Oaks/Avery Canals Hydrologic Restoration,	
Increment 0 and Increment 1, Bank Stabilization Only,	
(XTV-25 and XTV-25i)	E-77
Myrtle Grove Siphon Enlargement (PBA-48)	E-85
Channel Armor Gap West (XMR-10b)	E-92
Lake Boudreaux Basin Freshwater Introduction and	
Hydrologic Management,	
Alternatives A and B (TE-7fA and TE-7fB)	E-96
Lafourche Parish Dedicated Dredging,	
Increments 1 thru 6 (CW-6i thru CW-6vi)	E-110
Barataria Waterway " Dupre Cut"	
Shoreline Protection East (PBA-12b)	E-141
Dedicated Dredging in the	
Mississippi River (CW-1)	E-144
Marsh Creation East of the Atchafalaya River -	
Avoca Island, Alternative A, and	
Creole Bayou, Alternative B (CW-5A and CW-5B)	
Spanish Pass Diversion (PBA-11)	. E-163
Dedicated Dredging at	B 166
West Point a la Hache (CW-4)	
Breakwaters at Rockeletter Reluge (PME-2)	. E-1/3

			<del></del>

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL MULTIPLE AREA BENEFITS SUMMARY SHEET

Project: XCS-48 Black Bayou Hydrologic Restoration

The WVA analysis for project XCS-48 includes 2 areas: Area 1, consisting of intermediate wetiands and Area 2, consisting of brackish wetlands. Total WVA benefits (AAHUs) for this project are obtained by adding the benefits calculated for each area, as summarized below:

Area	AAHU's
1	2189.19
2	622.78

TOTAL BENEFITS = 2,812 AAHUs

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... XCS-48 Black Bayou Hydrologic Restoration

Marsh type acres:

Area I

Fresh.....

Condition: Future Without Project

Intermediate.. 13698

		TY 0		TY 1		TY 10	<del></del>
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	48	0.53	47	0.52	46	0.51
V2	% Aquatic	25	0.33	25	0.33	23	0.31
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 40 40	0.36	% 20 40 40	0.36	% 20 40 40	0.36
V4	%OW <= 1.5ft	85	1.00	85	1.00	82	1.00
V5	Salinity (ppt) fresh intermediate	6	0.60	· 6	0.60	7	0.40
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
•	<u>L</u>	HSI =	0.54	HSI =	0.53	HSI =	0.51

#### Project...... XCS-48 Black Bayou Hydrologic Restoration

		TY 20					
Variable		Value	\$I	Value	SI	Value	Si
V1	% Emergent	45	0.51				
V2	% Aquatic	22	0.30				
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 40 40	0.36	%		%	
V4	%OW <= 1.5ft	80	1.00				
V5	Salinity (ppt) fresh intermediate	7	0.40				
V6	Access Value	1.00	1.00				
		HSI =	0.50	HSI =		HSI =	

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... XCS-48 Black Bayou Hydrologic Restoration

Marsh type acres:

Fresh.....

Condition: Future With Project

Intermediate.. 13698

	] [	TY 0		TY 1		TY 10	<del></del>
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	48	0.53	48	0.53	57	0.61
V2	% Aquatic	25	0.33	30	0.37	60	0.64
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 40 40	0.36	% 20 40 40	0.36	% 50 50	0.50
V4	%OW <= 1.5ft	85	1.00	85	1.00	87	1.00
V5	Salinity (ppt) fresh intermediate	6	0.60	4	1.00	4	1.00
<u>V6</u>	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.54	HSI =	0.58	HSI =	0.69

Project...... XCS-48 Black Bayou Hydrologic Restoration

		TY 20					
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	62	0.66				
V2	% Aquatic	70	0.73		·		
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 70 30	0.54	%		%	
V4	%OW <= 1.5ft	90	1.00				
V5	Salinity (ppt) fresh intermediate	4	1.00				
V6	Access Value	1.00	1.00				
		HSI =	0.7-	HSI =		HSI =	

#### **AAHU CALCULATION**

Project: XCS-48 Black Bayou Hydrologic Restoration Area I

<b>Future Witho</b>	ut Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	13698	0.54	7333.62	
1	13698	0.53	7275.72	7304.67
10	13698	0.51	6939.02	63966.35
20	13698	0.50	6842.68	68908.51
		·		
			AAHU's =	7008.98

Future With P	roject			Total	Cummulative
TY	Acres	X	HSI	HU's	HU's
0	13698		0.54	7333.62	
1	13698		0.58	7919.41	7626.51
10	13698		0.69	9492.72	78354.61
20	13698		0.74	10103.71	97982.16
й и					
				AAHU's	9198.16

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	9198.16
B. Future Without Project AAHU's =	7008.98
Net Change (FWP - FWOP) =	2189.19

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project...... XCS-48 Black Bayou Hydrologic Restoration Area II

Marsh type acres.....

11831

Condition: Future Without Project

		TY 0		TY 1		TY 10	
Variable	<u> </u>	Value	SI	Value	SI	Value	SI
V1	% Emergent	62	0.66	62	0.66	61	0.65
V2	% Aquatic	10	0.37	10	0.37	10	0.3
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 30 50	0.58	% 20 30 50	0.58	% 20 30 50	0.58
V4	%OW <= 1.5ft	97	0.66	97	0.66	97	0.66
V5	Salinity (ppt)	4	1.00	4	1.00	4	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.66	HSI =	0.66	HSI =	0.66

Project...... XCS-48 Black Bayou Hydrologic Restoration

		TY 20					
· Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	59	0.63				
V2	% Aquatic	10	0.37				······································
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 30 50	0.58	%		%	
V4	%OW <= 1.5ft	97	0.66				<u>.</u>
V5	Salinity (ppt)	4	1.00				
·V6	Access Value	1.00	1.00				<del></del>
•		HSI =	0.65	HSI =		HSI =	4

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project...... XCS-48 Black Bayou Hydrologic Restoration

Marsh type acres.....

11831

Area II

Condition: Future With Project

		TY 0		TY 1		TY 10	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	62	0.66	63	0.67	68	0.71
V2	% Aquatic	. 10	0.37	10	0.37	25	0.48
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 30 50	0.58	% 20 30 50	0.58	% 20 50 30	0.62
V4	%OW <= 1.5ft	97	0.66	97	0.66	97	0.66
V5	Salinity (ppt)	4	1.00	3	1.00	3	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	L	HSI =	0.66 il	HSI =	0.67	HSI =	0.72

Project...... XCS-48 Black Bayou Hydrologic Restoration FWP

	1 [	TY 20					
Variable		Value	SI	Value	SI	Value	SI
·V1	% Emergent	71	0.74				
V2	% Aquatic	35	0.55				
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 80	0.68	%		<b>%</b>	
V4	%OW <= 1.5ft	. 98	0.64				
V5	Salinity (ppt)	3	1.00				
V6	Access Value	1.00	1.00				
		HSI =	0.75	HSI =		HSI =	

AAHU CALCULATION

Project: XCS-48 Black Bayou Hydrologic Restoration
Area II

<b>Future Witho</b>	Future Without Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	11831	0.66	7830.57	
1	11831	0.66	7830.57	7830.57
10	11831	0.66	7782.28	70257.81
20	-11831	0.65	7684.90	77335.90
		<del></del>		
	: ``			
			AAHU's =	7771.21

Future With P	uture With Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	11831	0.66	7830.57	
1	11831	0.67	7878.59	7854.58
10	11831	0.72	8465.14	73546.76
20	11831	0.75	8830.58	86478.59
1,000		75,	AAHU's	8394.00

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	8394.00
B. Future Without Project AAHU's =	7771.21
Net Change (FWP - FWOP) =	622.78

### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

XCS-48 Black Bayou Hydrologic Restoration - Area I

Date:

October 2, 1996

Total Area:

Target	·· F	WOP	·F	FWP		
Year	Acres	%	Acres	%	Net Acres	
0	6,516	48	6,516	48		
1	6,501	47	6,630	48	120	
2	6,486	47	6,746	49	129	
3	6,470	47	6,863	50	260	
4	6,455	47	6,983	51	393	
5	6,440	47	7,105		528	
6	6,425	47	7,103	52 53	665	
7	6,410	47	7,229	53 54	804	
8	6,395	47	7,333 7,484		945	
<b>8</b> 9	6,380	47	7,464 7,614	55	1,088	
10	6,365	46	7,01 <del>4</del> 7,747	56	1,234	
11	6,351	46	7,747 7,815	57 57	1,382	
12	6,336	46		57 50	1,464	
13	6,321	46	7,883	58 50	1,547	
14	6,306	46	7,952	58 50	1,631	
15	6,291	46	8,021	59	1,715	
16	6,277	46 46	8,092	59	1,800	
17	6,262	46 46	8,162	60	1,885	
18	6,248	46 46	8,233	60	1,971	
19	6,233		8,305	61	2,058	
20	6,218	46 45	8,378	61	2,145	
. 20	0,218	45	8,451	62	2,233	
Total Years 1-20	127,172		153,050			
Average Annual	6,359		7,652		1,294	

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

. Project:

XCS-48 Black Bayou Hydrologic Restoration - Area II

Date:

October 2, 1996

Total Area:

Target	FV	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
				<u> </u>	
0	7,353	62	7,353	62	
1	7,336	62	7,417	63	81
2	7,319	62	7,482	63	163
3	7,302	62	7,547.	64	246
4	7,285	62	7,613	64	329
5	7,268	61	7,680	65	412
6	7,251	61	7,747	65	496
7	7,234	61	7,814	66	581
<b>8</b> 9	7,217	61	7,883	67	666
9	7,200	61	7,951	67	751
10	7,183	61	8,021	68	838
11	7,166	61	8,056	68	889
12	7,150	60	8,091	68	941
13	7,133	60	8,126	69	993
14	7,116	60 ·	8,162	69	1,045
15	7,100	60	8,197	69	1,098
16	7,083	60	8,233	70	1,150
17	7,067	60	8,269	70	1,203
18	7,050	60	8,305	70	1,255
19	7,034	59	8,341	71	1,308
20	7,017	59	۶,378	71	1,361
Total Years 1-20	143,507		159,313		
Average Annual	7,175	***	7,966		790

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL MULTIPLE AREA BENEFITS SUMMARY SHEET

Project: XTE-32i Bayou Boeuf Pump Station - Increment 1

XTE-32 Bayou Boeuf Pump Station

The WVA analysis for project XTE-32i and XTE-32 includes 2 areas: Area 1, consisting of cypress-tupelo swamp and Area 2, consisting of bottomland hardwoods. Benefits for the XTE-32i project were determined by first calculating benefits for the Corps' Flood Control Project which will construct the Bayou Boeuf Pump Station. Benefits were then calculated for the Flood Control Project with additional benefits provided by additional pumping as a result of the proposed CWPPRA project. Benefits for the flood control only project were then subtracted from the benefits of the combined project to determine the net benefits provided by the proposed CWPPRA project.

The XTE-32 project does provide funds for a portion of the construction cost of the Bayou Boeuf Pump Station as well as the additional pumping provided by XTE-32i. Therefore, the XTE-32 project receives those benefits attributed to the XTE-32i project as well as a portion (i.e., approximately 4%) of the benefits attributed to the Corp's flood control project. Benefits for each project are summarized below.

#### XTE-32i Bayou Boeuf Pump Station - Increment 1

#### Cypress-Tupelo Swamp

Flood Control Project and CWPPRA Project

Flood Control Only Project

4876.10 AAHUs.

- 3455.63 AAHUs

1420.47 Net AAHUs

#### Bottomland Hardwoods

Flood Control Project and CWPPRA Project

Flood Control Only Project

2217.63 AAHUs

- 2180.09 AAHUs

37.54 Net AAHUs

TOTAL BENEFITS = 1,458 AAHUs

#### XTE-32 Bayou Boeuf Pump Station

Benefits of XTE-32i plus approximately 4% of the benefits attributed to the Corps' flood control project.

TOTAL BENEFITS = 1,678 AAHUS

#### **COMMUNITY HABITAT SUITABILITY MODEL** Fresh Swamp

Project..... XTE-32 Bayou Boeuf Pump Station Inc. 1

Acres:

165,000

Flood Control Project and CWPPRA Project
Condition: Future Without Project

	1	TY 0		TY 1			TY 20		
Variable		Class/Va	lue	SI	Class/Va	lue	SI	Class/Value	
V1	Stand Structure								
		% Cove			% Cove	<b>!</b> [		% Cover	1
	Overstory	İ	50	0.58	1	50	0.57		50∮ 0.3
	Scrub shrub		40			40		4	10
	Herbaceous		30			30	1		30
V2	Maturity	Age			Age			Age	
	(input age				_				
	or	Cypress	%		Cypress	%		Cypress %	ļ
			75			75	1	1	75
	species	Cypress of			Cypress d			Cypress dbh	1
	composition	ļ	16			16	ļ	1	6
	and	Tupelo et a			Tupelo et a		ļ	Tupelo et al.	%
	dbh)	_	25			25	1		:5
		Tupelo et a	- 1		Tupelo et al	l dbl	4	Tupelo et al di	bh
			10	0.86		10	0.86		0 0.84
		Class			Class			Class	
V3	Hyrology		!	0.68			0.68		0.6
144		Class	_		Class			Class	
V4	Forest Size		5	1.00		5	1.00	5.0	0 1.00
	Surrounding	Values	%		Values	%		Values	%
<b>V</b> 5	Land Use								
•									
	Forest / marsh		70	0.77		70	0.77	7	0 0.77
	Abandoned Ag		5	İ		5			5
	Pasture / Hay		5	I		5			5
	Active Ag		10	1		10		10	
· · · · · · · · · · · · · · · · · · ·	Development		10			10		1(	0
V6	Disturbance	<b>0</b> '	•	- 1	•	İ			
VO	T	Class	- 1		Class			Class	
	Туре	01		0.86			0.86	_	0.86
	Dieterre	Class		1	Class			Class	
	Distance	1161							
	į	HSI	2	0.74	HSI	=	0.73	HSI =	0.64

## COMMUNITY HABITAT SUITABILITY MODEL Fresh Swamp

Project..... XTE-32 Bayou Boeuf Pump Station Inc. 1

Acres:

165,000

Flood Control Project and CWPPRA Project

Condition: Future With Project

		TY 0		TY 1		TY 20	
Variable		Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure						,
		% Cover		% Cover	1	% Cover	
	Overstory	50	0.58		0.59	50	0.73
	Scrub shrub	40		40		40	
	Herbaceous	30		30		30	
V2	Maturity	Age		Age		Age	
	(input age						
	or	Cypress %		Cypress %		Cypress %	
		75		75	1	75	
	species	Cypress dbh		Cypress dbh		Cypress dbh	
	composition	16		16		16	
	and	Tupelo et al. %		Tupelo et al. %	Į.	Tupelo et al. %	
	dbh)	25		25		25	
		Tupeio et ai dbh		Tupelo et al dbh	ł	Tupelo et al dbir	
		10	0.86	10	0.86	10	0.88
		Class		Class		Class	
V3	Hyrology		0.68		0.69		0.87
		Class		Class		Class	
V4	Forest Size	5	1.00		1.00		1.00
	Surrounding	Values %		Values %	}	Values %	
<b>V5</b>	Land Use					İ	
	ļ				ĺ		
	Forest / marsh	70	0.77	70	0.77	70	0.77
	Abandoned Ag	5		5		5	
	Pasture / Hay	5		5		5	
•	Active Ag	10		10		10	
	Development	10		10		10	
	Disturbance						
V6	·	Class		Class		Class	
	Туре	ļ	0.86		0.86		0.86
		Class		Class		Class	
	Distance						
		HSI =	0.74	HSI =	0.74	HSI =	0.82

### AAHU CALCULATION, Fresh Swamp Project: XTE-32 Bayou Boeuf Pump Station Inc. 1

Flood Control Project and CWPPRA Project

Future With Pr	Future With Project		Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	165,000	0.74	121618.69	
1	165,000	0.74	122534.97	122076.83
20	165,000	0.82	135965.65	2455755.86
		· · · · · · · · · · · · · · · · · · ·		
		7. T		
			Total	
			CHUs =	2577832.68
			AAHUs =	51556.65

Future Withou	Future Without Project			Total	Cummulative
TY	Acres	x HSI	_	HUs	HUs
01	165,000	C	.74	121618.69	
1	165,462		.73	121308.32	121463.81
20	174,240	0	.64	111317.31	2212564.10
1.7					
				Total	
			H	CHUs =	2334027.90
*				AAHUs =	46680.56

NET CHANGE IN AAHU'S DUE TO PROJECT	7
A. Future With Project AAHUs =	51556.65
B. Future Without Project AAHUs =	46680.56
Net Change (FWP - FWOP) =	4876.10

Note: Numbers entered in the Class/Value column for V1 and V2 do not reflect project area conditions. SIs for those variables are weighted and were calculated manually. Numbers in the Class/Value are meaningless but are necessary so that the spreadsheet uses the correct HSI formula.

## COMMUNITY H BITAT SUITABILITY MODEL Fresh Swamp

Project..... XTE-32 Bayou Boeuf Pump Station

Acres:

165,000

Flood Control Project Only Condition: Future Without Project

		TY 0		TY 1		TY 20		
Variable		Class/Value	SI	Class/Value	SI	Class/Value	SI	
V1	Stand Structure	% Cover		% Cover		% Cover		
	Overstory	50	0.58	50	0.57		0.38	
	Scrub shrub	40		40		40	•	
•	Herbaceous	30		30		30		
V2	Maturity (input age	Age		Age		Ag <b>e</b>		
	or	Cypress %		Cypress %		Cypress %		
		75		75		75		
	species	Cypress dbh		Cypress dbh		Cypress dbh		
	composition	16		16	!	16		
	and	Tupelo et al. %		Tupelo et al. %		Tupelo et al. %		
	dbh)	25	•	25	i	25		
		Tupeio et al dbh		Tupelo et al dbi		Tupelo et al dbh		
		10	0.86	10	0.86		0.84	
		Class		Class		Class		
V3	Hyrology		0.68		0.68		0.6	
		Class		Class		Class		
V4	Forest Size	5	1.00	5	1.00		1.00	
V5	Surrounding Land Use	Values %		Values %		Values %		
	Forest / marsh	70	0.77	70	0.77	70	0.77	
	Abandoned Ag	5	• • • • • • • • • • • • • • • • • • • •	5	1	5		
	Pasture / Hay	5		5		5		
•	Active Ag	10		10		10		
	Development	10		10		10		
	Disturbance				Ť			
V6	,	Class		Class		Jlass		
• •	Туре	J.233	0.86	1	0.86		0.8	
	.,,,,,	Class	2.44	Class		Class		
	Distance	J.255		-				
		HSI =	0.74	HSI =	0.73	HSI =	0.6	

# COMMUNITY HABITAT SUITABILITY MODEL Fresh Swamp

Project..... XTE-32 Bayou Boeuf Pump Station

Acres:

165,000

Flood Control Project Only

Condition: Future With Project

		TY 0		TY		TY 20		
Variable	<u> </u>	Class/Value	SI	Class/Value	SI	Class/Value	l SI	
V1	Stand Structure							
		% Cover		% Cover		% Cover	İ	
	Overstory.	50	0.58	5	0.58	50	0.6	
	Scrub shrub	40		4	0	40		
	Herbaceous	30		3	0	30		
V2	Maturity	Age		Age		Age		
	(input age							
	or	Cypress %		Cypress %		Cypress %		
		75		7:	5	75		
	species	Cypress dbh		Cypress dbh		Cypress dbh		
	composition	16		10	- I	16		
	and	Tupeio et al. %		Tupelo et al. 9		Tupelo et al. %		
	dbh)	25		2	4	25		
		Tupelo et al dbh		Tupelo et al di		Tupelo et al dbh		
		10	0.86	1(	0.86	1	0.88	
1/2		Class		Class		Class		
V3	Hyrology		0.68		0.69		0.82	
1/4	Farrat Cian	Class		Class		Class		
V4	Forest Size	5	1.00				1.00	
V5 /	Surrounding	Values %	}	Values 9	6	Values %		
<b>v</b> 5 ;	Land Use							
	Forest / marsh	70	A 77	~.				
	Abandoned Ag	70 5	0.77	70		70	0.77	
	Pasture / Hay	5	1	5		5		
	Active Ag	10	1	5 10		5		
	Development	10	ł	10		10		
	Disturbance	10		10		10		
V6	Disturbance	Class		Class		01		
	Туре	<b>U</b> 1633	0.86	CIESS	0.00	Class		
	) ype	Class	U.00	Class	0.86	0,	0.86	
	Distance	Ciass		Class	1	Class		
		HSI =	0.74	HSI =	0.74	Let -	0.78	
	<u>L</u>	<u> </u>	U./4	<u> </u>	U./4	HSI =	0.7	

# AAHU CALCULATION, Fresh Swamp Project: XTE-32 Bayou Boeuf Pump Station

Flood Control Project Only

Future With	/ith Project		Total	Cummulative	
TY	Acres	X	HSI	HUs	HUs
0	165,000		0.74	121618.69	
1	165,000		0.74	121755.84	121687.26
20	165,000		0.78	129309.62	2385121.90
<del>                                     </del>					
<del></del>					
<u> </u>				Total	
			1	Total CHUs =	2506809.16
			ŀ		
			<u>L</u>	AAHUs =	50136.18

Future Withou	t Project		Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	165,000	0.74	121618.69	
1	165,462	0.73		121463.81
20	174,240	0.64	111317.31	2212564.10
			Total	
			CHUs =	2334027.90
•		į	AAHUs =	46680.56

NET CHANGE IN AAHU'S DUE TO PROJECT	7
A. Future With Project AAHUs =	50136.18
B. Future Without Project AAHUs =	46680.56
Net Change (FWP - FWOP) =	3455.63

Note: Numbers entered in the Class/Value column for V1 and V2 do not reflect project area conditions. SIs for those variables are weighted and were calculated manually. Numbers in the Class/Value are meaningless but are necessary so that the spreadsheet uses the correct HSI formula.

#### **COMMUNITY HABITAT SUITABILITY MODEL**

#### **Bottomland Hardwoods**

Project..... XTE-32 Bayou Boeuf Pump Station - Inc. 1 Flood Control Project and CWPPRA Project

Acres:

53,000

\* Condition: Future Without Project

		TY 0		TY 1		TY 20	
<u>Variable</u>		Class/Value	SI	Class/Value	· SI	Class/Value	SI
		Class		Class		Class	
V1	Species Assoc.	4	0.80	4	0.80		0.78
		Age		Age		Age	
V2	Maturity				1		
	(input age or	dbh		dbh	İ	dbh	
	dbh, not both)	14	0.60	14	0.60	15.5	0.70
		Understory %		Understory %		Understory %	
V3	Understory /	B. 61-4 04					
	Midstory	Midstory %		Midstory %		Midstory %	
		0	0.93		0.93		0.84
374	I handa ay	Class		Class		Class	
V4	Hyrology		0.88		0.88		0.83
V5	Farnat Sina	Class		Class		Class	
VO	Forest Size	\/=\ 0/	0.98		0.98		0.98
V6	Surrounding Land Use	Values %		Values %		Values %	
VO	Land Use						
	Forest / marsh	75	0.75			[	
	Abandoned Ag	75	0.75	75	0.75	75	0.75
1/	Pasture / Hay		1				
<i></i>	Active Ag		- [				
•	Development	25	l	25			
	Disturbance	25		25		25	
<b>V</b> 7		Class	[	Class	Ì	Class	
*/	Туре	3	0.65	3	0.65		0.05
	.,,,,	Class	0.00	Class	0.65	3	0.65
	Distance	2		Class 2	1	Class 2	
7		HSI =	0.76	HSI =	0.76	HSI =	0.77

# COMMUNITY HABITAT SUITABILITY MODEL Bottomland Hardwoods

Project..... XTE-32 Bayou Boeuf Pump Station - Inc. 1

Acres:

53,000

Flood Control Project and CWPPRA Project

Condition: Future With Project

		TY 0		TY 1	TY 1		
Variable	<u> </u>	Class/Value	SI	Class/Value	SI	TY 20 Class/Value	SI
V1	Species Assoc.	Class 4	0.80	Class 4	0.80	Class	0.8
V2	Maturity	Age		Age		Age	
	(input age or dbh, not both)	dbh 14	0.60	dbh 14	0.60	dbh 16.255	0.76
V3	Understory /	Understory %		Understory %	0.00	Understory %	0.75
	Midstory	Midstory %	0.93	Midstory %	0.93	Midstory %	0.0
	·	Class		Class	0.00	Class	0.9
V4	Hyrology		0.88	3	1.00	3	4.0
V5	Forest Size	Class	0.98	Class	0.98	Class	1.0 0.9
V6	Surrounding Land Use	Values %		Values %	0.00	Values %	
	Forest / marsh Abandoned Ag Pasture / Hay	75	0.75	. 75	0.75	75	0.7
	Active Ag Development	25		25		25	
V7.	Disturbance	Class		Class		Class	
	Type Distance	Class 2	0.65	Class 2	0.65	Class	0.65
		HSI =	0.76	HSI =	0.78	HSI =	0.84

AAHU CALCULATION, Bottomland Hardwoods

Project: XTE-32 Bayou Boeuf Pump Station - Inc. 1
Flood Control Project and CWPPRA Project

Future With Pr	oject			Total	Cummulative
TY	Acres	x HS	31	HUs	HUs
0	53,000		0.76	40360.11	
1	53,000		0.78	41085.13	40722.62
20	53,000		0.84	44331.84	811461.21
				Total	852483 83

Future Withou	Future Without Project		re Without Project		Total	Cummulative
TY	Acres	x HSI	HUs	HUs		
01	53,000	0.76	40360.11			
1	52,538	0.76	40008.30	40184.20		
20	43,760	0.77	33764.15	701118.01		
	<u> </u>					
			Total			
			CHUs =	741302.21		
		_	AAHUs =	14826.04		

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project AAHUs =	17043.68
B. Future Without Project AAHUs =	14826.04
Net Change (FWP - FWOP) =	2217.63

# COMMUNITY HABITAT SUITABILITY MODEL Bottomland Hardwoods

Project..... XTE-32 Bayou Boeuf Pump Station

Flood Control Project Only

Acres: 53,000

Condition: Future Without Project

	1	TYO		TY '	TY 1		TV 20	
Variable		Class/Value	Si	Class/Value	SI	TY 20 Class/Va!ue		
V1	Species Assoc.	Class 4	0.80	Class		Class	SI	
V2	Maturity	Age		Age		Age	0.7	
	(input age or dbh, not both)	dbh 14	0.60	dbh 14	0.60	dbh 15.5	0.7	
V3	Understory /	Understory %		Understory %	9.90	Understory %	0.7	
	Midstory	Midstory %	0.93	Midstory %	0.93	Midstory %		
V4	Hyrology	Class	0.88	Class	0.88	Class	0.8	
V5	Forest Size	Class	0.98	Class	0.98	Class	.0.8	
V6	Surrounding Land Use	Values %		Values %	0.30	Values %	0.9	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag	75	0.75	75	0.75	75	0.75	
	Development Disturbance	25		25		25		
V7	Туре	Class 3	0.65	Class 3	0.65	Class 3	0.65	
	Distance	Class 2		Class 2		Class 2		
	L	HSI =	0.76	HSI =	0.76	HSI =	0.77	

## COMMUNITY HABITAT SUITABILITY MODEL Bottomland Hardwoods

Project..... XTE-32 Bayou Boeuf Pump Station

Acres:

53,000

Flood Control Project Only

Condition: Future With Project

		TY 0		TY 1		TY 20	
Variable		Class/Value	SI	Class/Value	SI	Class/Value	SI
		Class		Class	Ì	Class	
<u>V1</u>	Species Assoc.	4	0.80	4	0.80		0.8
		Age		Age		Age	
V2	Maturity						
	(input age or	dbh		dbh	1	dbh	
	dbh, not both)	14	0.60	14	0.60	16.2	0.74
		Understory %		Understory %		Understory %	
V3	Understory /			-		-	
	Midstory	Midstory %		Midstory %		Midstory %	
			0.93		0.93		0.9
		Class		Class		Class	
V4	Hyrology		0.88	3	1.00	3	1.00
		Class		Class		Class	
V5	Forest Size		0.98		0.98	į	0.98
	Surrounding	Values %		Values %		Values %	
V6	Land Use						
	Forest / marsh	75	0.75	75	0.75	75	0.75
	Abandoned Ag		i				
#	Pasture / Hay	ĺ					
	Active Ag		]		i		
· · · · · · · · · · · · · · · · · · ·	Development	25		25		25	
	Disturbance						
<b>V</b> 7	_	Class	{	Class	[	Class	
	Туре	3	0.65	3	0.65	3	0.6
		Class		Class		Class	
	Distance	2		2		2	
		HSI =	0.76	HSI =	0.78	HSI =	0.83

AAHU CALCULATION, Bottomland Hardwoods

Project: XTE-32 Bayou Boeuf Pump Station
Flood Control Project Only

Future With P	ture With Project			Total	Cummulative
TY	Acres	X	HSI	HUs	HUs
0	53,000		0.76	40360.11	
1	53,000		0.78	41085.13	40722.62
20	53,000		0.83	44134.24	809583.95
<del></del>					
		····			
				Total	

850306.57 17006.13 AAHUs =

Future Withou	re Without Project		Total	Cummulative
TY	Acres	x HSi	HUs	HUs
0	53,000	0.76	40360.11	1.00
1	52,538	0.76	40008.30	40184.20
20	43,760	0.77	33764.15	701118.01
		· · · · · · · · · · · · · · · · · · ·		
		*******		
,				
			Total	
			CHUs =	741302.21
•			AAHUs =	14826.04

NET CHANGE IN AAHUS DUE TO PROJECT	7
A. Future With Project AAHUs =	17006.13
B. Future Without Project AAHUs =	14826.04
Net Change (FWP - FWOP) =	2180.09

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... PMR-10 Delta Crevasse Management

Marsh type acres:

Fresh.....

5210

Condition: Future Without Project

Intermediate.

		TY 0		TY 1		TY 5	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	15	0.24	16	0.24	19	0.27
V2	% Aquatic	54	0.59	54	0.59	54	0.59
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 80	0.24	% 20 80	0.24	% 20 80	0.24
V4	%OW <= 1.5ft	64	0.82	64	0.82	60	0.78
V5	Salinity (ppt) fresh intermediate	o	1.00	0	1.00	0	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
:		HSI =	0.42	HSI =	0.43	HSI =	0.44

Project...... PMR-10 Delta Crevasse Management FWOP

		TY 20					
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	13	0.22	·			· · · · · · · · · · · · · · · · · · ·
V2	% Aquatic	40	0.46				
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 15 85	0.23	%		%	
V4	%OW <= 1.5ft	40	0.55				
V5	Salinity (ppt) fresh intermediate	o	1.00				
V6	Access Value	1.00	1.00		,		
-		HSI =	0.37	HSI ≖	•	HSI =	

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... PMR-10 Delta Crevasse Management

Marsh type acres:

Fresh.....

5210

Condition: Future With Project

Intermediate.

		TY 0		TY 1		TY 5	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	15	0.24	18	0.26	30	0.37
V2	% Aquatic	54	0.59	54	0.59	65	0.69
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 80	0.24	% 20 80	0.24	% 35 65	0.27
V4	%OW <= 1.5ft	64	0.82	65	0.83	70	0.89
V5	Salinity (ppt) fresh intermediate	0	1.00	0	1.00	0	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	L	HSI ≥	0.42	HSI =	0.44	HSI =	0.53

Project...... PMR-10 Delta Crevasse Management FWP

		TY 20					
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	59	0.63				
V2	% Aquatic	75	0.78				
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 50 50	0.50	<b>%</b>		<b>%</b>	
V4	%OW <= 1.5ft	85	1.00				
V5	Salinity (ppt) fresh intermediate	o	1.00				
V6	Access Value	1.00	1.00				
-		HSI =	0.73	HSI =	7	HSI =	

### **AAHU CALCULATION**

Project: PMR-10 Delta Crevasse Management

<b>Future Witho</b>	ut Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	5210	0.42	2197.78	
1	5210	0.43	2231.84	2214.81
5	5210	0.44	2314.02	9091.72
20	5210	0.37	1940.24	31906.96
		· · · · · · · · · · · · · · · · · · ·		
<u> </u>			AAHU's =	2160.67

uture With P	roject		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	5210	0.42	2197.78	
1	5210	0.44	2302.96	2250.37
5	5210	0.53	2783.05	10172.01
20	5210	0.73	3794.83	49334.08
4 5				•
$\frac{\partial}{\partial t}$				
			AAHU's	3087.82

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	3087.82
B. Future Without Project AAHU's =	2160.67
Net Change (FWP - FWOP) =	927.15

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PMR-10 Delta-wide Crevasses

Date:

October 3, 1996

Total Area:

Target	FW	/OP	F	WP		
Year	Acres	%	Acres	%	Net Acres	
0	702					
0	783	15	783	15	•=	
1	813	16	933	18	120	
2	858	16	1085	21	227	
3	903	17	1237	24	334	
4	948	18	1388	27	440	
5	993	19	1540	30	547	
6	973	19	1,643	32	670	
7	953	18	1,745	34	792	
8	933	18	1,848	35	915	
9	914	18	1,951	37	1,037	
10	894	17	2,054	39	1,160	
11	874	17	2,156	41	1,283	
12	854	16	2,259	43	1,405	
13	834	16	2,362	45	1,528	
. 14	814	16	2,465	47	1,650	
15	794	15	2,567	49	1,773	
16	774	15	2,670	51	1,896	
17	755	14	2,773	53	2,018	
18	735	14	2,876	55	2,141	
19	715	14	2,978	57	2,263	
20	695	13	3,081	59	2,386	
Total Years 1-20	17,026		41,610			
Averc e Annual	851		2,081		1,229	

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL MULTIPLE AREA BENEFITS SUMMARY SHEET

Project: PBA-44 Fort Jackson/Boothville Diversion

The WVA analysis for project PBA-44 includes 3 areas: Area 1, consisting of intermediate marsh; Area 2, consisting of saline marsh which is predicted to convert to brackish marsh at Target Year 1 (TY1) under the Future-With-Project (FWP) scenario; and Area 3 consisting of brackish marsh.

Total benefits (AAHUs) for this project are obtained by adding the benefits calculated for each area as summarized below:

_ Area_	_ AAHU's
1	2,668.09
2	4,547.13
3	92.96

TOTAL BENEFITS = 7,308 AAHU'S

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... PBA-44 Fort Jackson/Boothville Diversion

Marsh type acres:

Area I

Fresh.....

Condition: Future Without Project

Intermediate.. 14,892

	<u> </u>	TY 0		TY 1	I	TY 20	
Variable		Value	SI	Value	SI	Value i	Si
V1	% Emergent	26	0.33	24	0.32	9	0.1
V2	% Aquatic	15	0.24	15	0.24	5	0.1
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 20 60	0.32	% 20 20 60	0.32	% 100	0.2
V/4	%OW <= 1.5ft	10	0.21	10	0.21	3	0.1
V5	Salinity (ppt) fresh intermediate	8	0.20	8	0.20	8	0.20
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	<u>L</u>	HSI =	0.32	HSI =	0.31	HSI =	0.20

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project....... PBA-44 Fort Jackson/Boothville Diversion

Marsh type acres:

Area I

Fresh.....

Condition: Future With Project

Intermediate.. 14,892

		TYO		TY1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
Vi	% Emergent	26	0.33	26	0.33	27	0.3
V2	% Aquatic	15	0.24	20	0.28	60	0.64
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 20 60	0.32	% 20 20 60	0.32	% 25 25 50	0.35
V4	%OW <= 1.5ft	10	0.21	10	0.21	40	0.55
V5	Salinity (ppt) fresh intermediate	8	0.20	1	1.00	1	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	<u> </u>	HSI =	0.32	HSI =	0.39 /	HSI =	0.49

### **AAHU CALCULATION**

Project: PBA-44 Fort Jackson/Boothville Diversion

Area I

Future Withou	ut Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	14,892	0.32	4782.13	
1	14,892	0.31	4644.05	4713.09
20	14,892	0.20	2964.90	72285.08
			AAHU's =	3849.91

AAHU's = 3849.91

Future With P	roject		Total	Cummulative	
TY	Acres	x HSI	HU's	HU's	
0	14,892	0.32	4782.13		
1	14,892	0.39	5846.42	5314.28	
20	14,892	0.49	7316.29	125045.77	
			AAHU's	6518.00	

NET CHANGE IN AAHU'S DUE TO PROJECT	1
A. Future With Project AAHU's =	6518.00
B. Future Without Project AAHU's =	3849.91
Net Change (FWP - FWOP) =	2668.09

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project...... PBA-44 Fort Jackson/Boothville Diversion
Area II - Converts to brackish marsh, FWP - TY1

Marsh type acres...... 63,176

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
variable	<del></del>	Value	SI	Value	SI	Value	SI
V1	% Emergent	23	0.31	22	0.30	8	
V2	% Aquatic	1	0.31	. 1	0.31		0.1
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 15 15 70	0.29	% 15 15 70	0.29	100	0.31
V4	%OW <= 1.5R	10	0.23	10	0.23	3	0.14
V5	Salinity (ppt)	10	1.00	10	1.00	14	1.00
V6	Access Value	1.00 HSI =	1.00	1.00	1.00	1.00	1.00
	<u>.                                    </u>	HSI =	0.44	HSI =	0.43	HSI =	0.32

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project...... PBA-44 Fort Jackson/Boothville Diversion

PBA-44 Foπ Jackson/Boothville Diversion Marsh type acres.......

Area II - Converts to brackish marsh, FWP - TY1

...... 63,176

Condition: Future With Project

16!		TY 0		See brackish	model below	See brackish mo	del helm
Variable	<u> </u>	Value	SI	Value	Si	Value	SI
V1	% Emergent	23	0.31				
V2	% Aquatic	1	0.31				
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 15 15 70	0.29		%	%	
V4	%OW <= 1.5ft	10	0.23				
V5	Salinity (ppt)	10	1.00				
V6	Access Value	1.00	1.00				
		HSI =	0.44	HSI =		HSI =	

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project...... PBA-44 Fort Jackson/Boothville Diversion

Area II - Converts to brackish marsh, FWP - TY1

Marsh type acres...... 63176

Condition: Future With Project

Variable		See saline model	استخاصات	TY1		TY 20	
Variable		Value .	SI	Value	SI	Value	SI
V1	% Emergent			23	0.31	24	0.32
V2	% Aquatic	·		5	0.34	40	0.58
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	%		% 15 15 70	0.29	% 20 20 60	0.32
V4	%OW <= 1.5ft			10	0.23	30	0.49
V5	Salinity (ppt)			5	1.00	5	1.00
V6	Access Value	HSI =		1.00	1.00	1.00	1.00

### **AAHU CALCULATION**

Project: PBA-44 Fort Jackson/Boothville Diversion
Area II - Converts to brackish marsh, FWP - TY1

<b>Future Witho</b>	ut Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	63176	0.44	27499.99	
1	63176		27116.33	27308.16
20	63176		20353.39	450962.34
			•	
			AAHU's =	23913.53

Future With Pi	roject		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	63176		27499.99	1103
1	63176		26546.75	27023.37
20	63176		30525.85	542189.72
·				0 12100.72
j j				
			AAHU's	28460.65

NET CHANGE IN AAHU'S DUE TO PROJECT	7
A. Future With Project AAHU's =	28460.65
B. Future Without Project AAHU's =	23913.53
Net Change (FWP - FWOP) =	4547.13

<sup>\*</sup> HSI calculated using the Brackish HSI Model

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project..... PBA-44 Fort Jackson/Boothville Diversion

Marsh type acres......

3,700

Area III

Condition: Future Without Project

		TY 0		TY 1		TY 10	
<u>Variable</u>	<u> </u>	Value	SI	Value	SI	Value	SI
V1	% Emergent	98	0.98	98	0.98	98	0.98
V2	% Aquatic	20	0.44	20	0.44	20	0.44
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	100	1.00	% 100	1.00	100	1.00
V4	%OW <= 1.5ft	95	0.70	95	0.70	85	0.90
V5	Salinity (ppt)	7	1.00	7	1.00	8	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	<u>L</u>	HSI =	0.85	HSI =	0.85	HSI =	0.87

Project...... PBA-44 Fort Jackson/Boothville Diversion FWOP

		TY 20					
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	85	0.87				
	% Aquatic	15	0.41				
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 90 10	0.96	%		%	
V4	%OW <= 1.5ft	75	1.00				
V5	Salinity (ppt)	10	1.00		·		
V6	Access Value	1.00	1.00				
		HSI =	0.81	HSI =		HSI =	

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project..... PBA-44 Fort Jackson/Boothville Diversion

Marsh type acres......

3,700

Area III

Condition: Future With Project

		TY 0		TY 1		TY 10	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	98	0.98	98	0.98	98	0.98
V2	% Aquatic	20	0.44	20	0.44	30	0.51
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	<b>%</b> 100	1.00	% 100	1.00	% 100	1.00
V4	%OW <= 1.5ft	95	0.70	95	0.70	92	0.76
V5	Salinity (ppt)	7	1.00	2	1.00	2	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	L.	HSI =	0.85	HSI =	0.85	HSI =	0.88

Project..... PBA-44 Fort Jackson/Boothville Diversion FWP

	] [	TY 20			I		
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	98	0.98				
V2	% Aquatic	40	0.58				
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	100	1.00	%		%	
V4	%OW <= 1.5ft	90	0.80				
V5	Salinity (ppt)	2	1.00				
V6	Access Value	1.00	1.00				
		HSI =	0.90	HSI =		HSI =	

#### **AAHU CALCULATION**

Project: PBA-44 Fort Jackson/Boothville Diversion

Area III

Future Witho	ut Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	3700	0.85	3155.54	
1	3700	0.85	3155.54	3155.54
10	3700	0.87	3210.36	28646.55
20	3700	0.81	3012.96	31116.58
			AAHU's =	3145.93

Future With Pr	roject		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	3700	0.85	3155.54	
1	3700	0.85	3155.54	3155.54
10	3700	0.88	3244.37	28799.63
20	3700	0.90	3320.17	32822.70
4				
			AAHU's	3238.89

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	3238.89
B. Future Without Project AAHU's =	3145.93
Net Change (FWP - FWOP) =	92.96

### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PBA-44 Boothville Sediment Diversion - Area I

. Date:

October 16, 1996

Total Area:

Target		WOP	FWP			
Year	Acres	%	Acres	%	Net Acres	
0	3,824	26	2.004	_		
1	3,638		3,824	26		
2	3,460	24	3,805	26	168	
3	•	23	3,814	26	353	
4	3,292	22	3,823	26	531	
5	3,131	21	3,831	26	700	
	2,979	20	3,840	26	861	
6	2,834	19	3,848	26	1,014	
7	2,696	18	3,857	26	1,161	
8	2,564	17	3,865	26	1,301	
9	2,439	16	3,874	26	1,435	
10	2,321	16	3,883	26	•	
11	2,208	15	3,891	26	1,562	
. 12	2,100	14	3,900	26	1,684	
13	1,998	13	3,908	26	1,800	
14	1,900	13	3,917	26	1,911	
15	1,808	12	3,925	26	2,017	
16	1,720	12	3,934		2,118	
17	1,636	11		26	2,214	
18	1,556	10	3,943	26	2,307	
19	1,480	10	3,951	27	2,395	
20	1,408		3,960	27	2,479	
20	1,700	9	3,968	27	2,560	
Total Years 1-20	47,168		77,737			
Average Annual	2.358		3.887		1,528	

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PBA-44 Boothville Sediment Diversion - Area II

Date:

October 16, 1996

Total Area:

Target	FV	VOP	F	WP		
Year	Acres	%	Acres	%	Net Acres	
	· · · · · · · · · · · · · · · · · · ·					
0	14,472	23	14,472	23	••	
1	13,767	22	14,401	23	635	
2	13,096	21	14,447	23	1,351	
3	12,458	20	14,492	23	2,034	
4	11,851	19	14,538	23	2,687	
5	11,274	18	14,583	23	3,310	
6	10,725	17	14,629	23	3,904	
7	10,202	16	14,674	23	4,472	
8	9,705	15	14,720	23	5,015	
· , 9	9,232	15	14,765	23	5,533	
10	8,782	14	14,811	23	6,028	
11	8,355	13	14,856	24	6,502	
. 12	7,947	13	14,902	24	6,954	
13	7,560	12	14,947	24	7,387	
14	7,192	11	14,993	24	7,801	
15	6,842	11	15,038	24	8,197	
16	6,508	10	15,084	24	8,575	
17	6,191	10	15,129	24	8,938	
18	5,890	9	15,175	24	9,285	
19	5,603	9	15,220	24	9,617	
20	5,330	8	15,265	24	9,936	
Total Years 1-20	178,509		296,670			
Average Annual	8,925		14,833		5,908	

### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PBA-44 Fort Jackson/Boothville Diversion - Area III

Date:

October 16, 1996

Total Area:

Target	F\	VOP	F	FWP	
Year	Acres	%	Acres	%	Net Acres
0	3,640	98	3,640	98	
1	3,640	98	3,640	98 98	
2	3,640	98	3,640 3,640		0
3	3,640	98	3,640 3,640	98 08	0
4	3,640	98	3,640	98 08	0
5	3,640	98	3,640 3,640	98	0
6	3,640	98	•	98	0
7	3,640	98	3,640	98	0
8	3,640	98	3,640	98	0
. <u>9</u>	3,640	98	3,640	98 -	0
10	3,640	98	3,640	98	0
11	3,585	96 97	3,640	98	0
12	3,531	97 95	3,640	98	55
13	3,478		3,640	98	109
14	3,426	94	3,640	98	162
15	3,420 3,374	93	3,640	98	214
16	•	91	3,640	98	266
17	3,324	90	3,640	98	316
18	3,274	88	3,640	98	366
19	3,224	87	3,640	98	416
20	3,176	86	3,640	98	464
20	3,128	85	3,640	98	512
Total Years 1-20	69,921		72,800		
Average Annual	3,496		3,640		144

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project......TV-5/7 Marsh Island Shore Stabilization/HR

Marsh type acres......

6697

Increment 3

Condition: Future Without Project

		TY 0	Y 0 TY 1			TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	75	0.78	75	0.78	66	0.69
V2	% Aquatic	0.2	0.30	0.2	0.30	o	0.30
V3	Interspersion' Class 1 Class 2 Class 3 Class 4 Class 5	% 15 35 15 35	0.49	% 15 35 15 35	0.49	% 13 27 25 35	0.46
V4	%OW <= 1.5ft	43	0.65	43	0.65	40	0.61
V5	Salinity (ppt)	4	1.00	4	1.00	4	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.68	HSI =	0.68	HSI =	0.64

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project......TV-5/7 Marsh Island Shore Stabilization/HR

Marsh type acres......

6697

Increment 3

Condition: Future With Project

	1 . [	TY 0		TY 1		TY 20	
Variable	<u> </u>	Value	SI	Value	SI	Value	SI
V1	% Emergent	75	0.78	76	0.78	72	0.75
V2	% Aquatic	0.2	0.30	5	0.34	65	0.76
<b>V</b> 3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 15 35 15 35	0.49	% 15 35 15 35	0.49	% 15 31 19 35	0.48
V4	%OW <= 1.5ft	43	0.65	43	0.65	42	. 0.64
V5	Salinity (ppt)	4	1.00	4	1.00	4	1.00
V6	Access Value	1.00	1.00	0.982	0.98	0.982	0.98
		HSI =	0.68	HSI =	0.70	HSI =	0.7

### **AAHU CALCULATION**

Project: TV-5/7 Marsh Island Shoreline Stabilization/HR

Increment 3

<b>Future Witho</b>	ut Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	6697	0.68	4579.86	
1	6697	0.68	4579.86	4579.86
20	6697	0.64	4318.38	84533.28
	_			
	·			
			AAHU's =	4455.66

Future With P		,		
Future with P			Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	6697	0.68	4579.86	
1	6697	0.70	4668.16	4624.01
20	6697	0.77	5176.05	93520.07
			0170.00	93320.07
± 7				
/				
				·
			AAHU's	4007.00
		Į.	AARUS	4907.20

NET CHANGE IN AAHU'S DUE TO PROJECT	7
A. Future With Project AAHU's =	4907.20
B. Future Without Project AAHU's =	4455.66
Net Change (FWP - FWOP) =	451.55

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project: Date:

TV-5/7 Marsh Island Shoreline Stabilization/Hydr. Rest. (WVA conducted during PPL4 candidate evaluations)

Total Area:

Target Year	FWOP		FWP		
	Acres	%	Acres	%	Net Acres
0	5,034	75	5,034	75	
1	5,004	75	5,063	76	59
2	4,974	74	5,051	75	77
3	4,943	74	5,039	75	96
4	4,913	73	5,027	75	114
5	4,883	73	5,015	75	132
6	4,852	72	5,003	75	151
7	4,822	72	4,991	75	169
8	4,791	72	4,979	74	188
9	4,761	71	4,967	74	206
10	4,731	71	4,955	74	224
11	4,700	70	4,943	74	243
. 12	4,670	70	4,931	74	261
13	4,640	69	4,919	73	279
14	4,609	69	4,907	73 73	298
15	4,579	68	4,895	73	316
16	4,548	68	4,883	73 73	335
17	4,518	67	4,871	73 73	3 <i>5</i> 3
18	4,488	67	4,859	73 73	371
19	4,457	67	4,847	73 72	390
20	4,427	66	4,835	72	408
Total Years 1-20	94,310		98,980		-
Average Annual	4,716		4,949		233

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL MULTIPLE AREA BENEFITS SUMMARY SHEET

Project: PTE-26 Bayou Penchant Basin Plan

The WVA analysis for project PTe-26 includes 5 areas: Area 1, consisting of fresh marsh; Area 2, consisting of fresh marsh; Area 3 consisting of intermediate marsh; Area 4 consisting of brackish marsh; Area 5 consisting of fresh marsh.

Total benefits (AAHUs) for this project are obtained by adding the benefits calculated for each area as summarized below:

Area	AAHU's
1	582.53
2	631.35
3	130.33
4	78.55
5	22.70

TOTAL BENEFITS = 1,445 AAHU'S

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... PTE-26 Bayou Penchant Basin Plan

Marsh type acres:

Condition: Future Without Project

Fresh...... 48402 Intermediate..

	7 L	TYO		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	62.8	0.67	62.4	0.66	55.9	0.60
V2	% Aquatic	65	٤6.0	65	0.69	60	0.64
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 10 30 30 30	0.46	% 10 30 30 30	0.46	% 10 25 30 35	0.44
V4	%OW <= 1.5ft	40	0.55	40	0.55	35	0.49
V5	Salinity (ppt) fresh intermediate	o	1.00	o	1.00	0	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project......PTE-26 Bayou Penchant Basin Plan

Marsh type acres:

Area 1

Condition: Future With Project

Fresh..... 48402

Intermediate..

	1 [	TY 0		TY 1		TY 20	
Variable	ļ	Value	SI	Value	SI	Value	SI
V1	% Emergent	62.8	0.67	62.6	0.66	57.7	0.62
V2	% Aquatic	65	0.69	65	0.69	68	0.7
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 10 30 30 30	0.46	% 10 30 30 30	0.46	% 10 25 30 35	0.44
V4	%OW <= 1.5ft	40	0.55	40	0.55	37	0.52
V5	Salinity (ppt) fresh intermediate	0	1.00	0	1.00	0	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.69	HSI =	0.69	HSI =	0.6

# AAHU CALCULATION Project: PTE-26 Bayou Penchant Basin Plan Area 1

F. A. 1864				
Future Withou	t Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	48402	0.69		1103
1	48402	0.69		22500.04
20	48402		31258.31	33509.61
		0.03	31230.31	614862.45
				<del></del>
	7 8		<u> </u>	· · · · · · · · · · · · · · · · · · ·
	· — · · · · · · · · · · · · · · · · · ·			
			AAHU's =	32418.60

Future With P	roject		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	48402	0.69	33555.17	1103
1	48402	0.69	33509.63	33532.40
20	48402	0.67	32436.71	626490.23
				320,100.20
· ·		<u>[</u>	AAHU's	33001.13

NET CHANGE IN AAHU'S DUE TO PROJECT	7
A. Future With Project AAHU's =	33001.13
B: Future Without Project AAHU's = Net Change (FWP - FWOP) =	32418.60
Exer Change (FVVP - FVVOP) =	582.53

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... PTE-26 Bayou Penchant Basin Plan

Marsh type acres:

Area 2

Fresh...... 53949

Condition: Future Without Project

Intermediate..

	7 [	TYO		TY1		TY 20	
Variable	Į Į	Value	ŠI į	Value	SI	Value	SI
V1	% Emergent	82.3	0.84	82.2	0.34	80.1	0.82
V2	% Aquatic	60	0.64	60	0.64	55	0.60
<b>V</b> 3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 40 40	0.60	% 20 40 40	0.60	% 20 40 40	0.60
V4	%OW <= 1.5ft	40	0.55	40	0.55	35	0.49
V5	Salinity (ppt) fresh intermediate	o	1.00	o	1.00	0	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.78	HSI =	0.78	HSI =	0.76

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... PTE-26 Bayou Penchant Basin Plan

Marsh type acres:

Area 2

Fresh.....

Condition: Future With Project

Intermediate...

53949

		TYO		TY 1		TY 20	***************************************
Variable	<u> </u>	Value	SI	Value	SI	Value	SI
V1	% Emergent	82.3	0.84	82.3	0.84	81.2	0.83
V2	% Aquatic	60	0.64	60	0.64	63	0.67
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 40 40	0.60	% 20 40 40	0.60	% 20 40 48	0.60
V4	%OW <= 1.5ft	. 40	0.55	40	0.55	37	0.52
<b>V</b> 5	Salinity (ppt) fresh intermediate	o	1.00	0	1.00	0	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI ≈	0.78	H\$I =	0.78	HSI =	0.78

## **AAHU CALCULATION**

PTE-26 Bayou Penchant Basin Plan Area 2 Project:

<b>Future Witho</b>	ut Project		_	Total	Cummulative
TY	Acres	X	HSI	HU's	HU's
0	53949		0.78	42107.83	·
1	53949		0.78	42084.92	42096.37
20	53949	-	0.76	40768.24	787105.03
	. ,				
				AAHU's =	41460.07

uture With Pr	uture With Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	53949	0.78	42107.83	
1	53949	0.78	42107.83	42107.83
20	53949	0.78	42073.29	799720.56
			AAHU's	42091.42

NET CHANGE IN AAHU'S DUE TO PROJECT	7
A. Future With Project AAHU's =	42091.42
B. Future Without Project AAHU's =	41460.07
Net Change (FWP - FWOP) =	631.35

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... PTE-26 Bayou Penchant Basin Plan

Marsh type acres:

Area 3

Fresh.....

Condition: Future Without Project

Intermediate.. 16862

		TYO		TY 1		TY 20	
Variable		Value	SI (	Value	SI )	Value	SI
V1	% Emergent	59.1	0.63	58.9	0.63	55.3	0.60
V2	% Aquatic	55	0.60	55	0.60	57	0.61
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 15 30 30 25	0.50	% 15 30 30 25	0.50	% 15 30 25 30	0.49
V4	%OW <= 1.5ft	30	0.44	30	0.44	28	0.42
V5	Salinity (ppt) fresh intermediate	3	1.00	3	1.00	3	1.00
V6	Access Value	0.65	0.76	0.65	0.76	0.65	0.76
	<u></u>	HSI ≖	0.64	HSI =	0.64	HSI =	0.62

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... PTE-26 Bayou Penchant Basin Plan

Marsh type acres:

Area 3

Condition: Future With Project

Fresh..... Intermediate.. 16862

		TY 0		TY 1		TY 20	
Variable	<u> </u>	Value	SI	Value	SI	Value	SI
V1	% Emergent	59.1	0.63	59	0.63	55.9	0.60
V2	% Aquatic	55	0.60	55	0.60	64	0.68
<b>V</b> 3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	15 30 30 25	0.50	% 15 30 30 25	0.50	% 15 30 25 30	0.49
V4	%OW <= 1.5R	. 30	0.44	30	0.44	29	0.43
V5	Salinity (ppt) fresh intermediate	3	1.00	2	1.00	2	1.00
V6	Access Value	0.65	0.76	0.65	0.76	0.65	0.76
		HSI =	0.64	HSI ±	0.64	HSI =	0.64

## **AAHU CALCULATION**

Project: PTE-26 Bayou Penchant Basin Plan Area 3

Future Witho	Future Without Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	16862	0.64		
1	16862	0.64	10723.47	10731.04
20	16862	0.62	10469.07	201329.18
			AAHU's =	10603.01

Future With P	oject		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	16862	0.64	10738.60	
1	16862	0.64	10731.04	10734.82
20	16862	0.64	10735.48	203931.96
			<del></del>	
ı				
		į	AAHU's	10733.34

NET CHANGE IN AAHU'S DUE TO PROJECT	7
A. Future With Project AAHU's =	10733.34
B. Future Without Project AAHU's =	10603.01
Net Change (FWP - FWOP) =	130.33

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project..... PTE-26 Bayou Penchant Basin Plan

Marsh type acres......

12268

Condition: Future Without Project

	1 · L	TY 0		TY 1		TY 20	
Variable	<u> </u>	Value	SI	Value	SI	Value	SI
V1	% Emergent	45.9	0.51	45.6	0.51	40.8	0.47
V2	% Aquatic	35	0.55	35	0.55	30	0.51
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 5 30 30 35	0.42	% 5 30 30 35	0.42	% 5 25 30 40	0.40
V4	%OW <= 1.5ft	30	0.49	30	0.49	25	0.42
V5	Salinity (ppt)	5	1.00	5	1.00	4	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	<u>L</u>	HSI =	0.60	HSI =	0.60	HSI =	0.57

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project..... PTE-26 Bayou Penchant Basin Plan

Marsh type acres...... 12268

Area 4

Condition: Future With Project

		TY 0		TY 1		TY 20	
Variable		Value	SI [	Value	SI	Value	SI
V1	% Emergent	45.9	0.51	45.6	0.51	41.7	0.48
V2	% Aquatic	35	0.55	35	0.55	40	0.58
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 5 30 30 35	0.42	% 5 30 30 35	0.42	% 5 25 30 40	0.40
<u>V4</u>	%OW <= 1.5ft	30	0.49	30	0.49	27	0.45
V5	Salinity (ppt)	5	1.00	3.5	1.00	3.5	1.00
V6	Access Value	1.00	1.00	0.98	0.98	0.98	0.98
	`	HSI =	0.60	HSI =	0.60	HSI =	0.58

AAHU CALCULATION

Project: PTE-26 Bayou Penchant Basin Plan
Area 4

Future Without Project		Total	Cummulative
Acres	x HSI	HU's	HU's
12268	0.60	7394.66	
12268	0.60	7376.76	7385.71
12268	0.57	6937.84	135988.70
		A A <b>L</b> I I'A -	7168.72
	Acres 12268	Acres         x HSI           12268         0.60           12268         0.60           12268         0.57	Acres         x HSI         HU's           12268         0.60         7394.66           12268         0.60         7376.76

Future With P	uture With Project		Total	Cummulative	
TY	Acres	x HSI	HU's	HU's	
0	12268	0.60	7394.66		
1	12268	0.60	7351.13	7372.89	
20	12268	0.58	7130.18	137572.43	
			AAHU's	7247.27	

NET CHANGE IN AAHU'S DUE TO PROJECT	1
A. Future With Project AAHU's =	7247.27
B. Future Without Project AAHU's =	7168.72
Net Change (FWP - FWOP) =	78.55

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project..... PTE-26 Bayou Penchant Basin Plan

Marsh type acres:

Area 5

Fresh.....

Condition: Future Without Project

Intermediate.

		TY 0		TY 1		TY 20	
<u>Variable</u>		Value	SI	Value	SI	Value	SI
V1	% Emergent	83.4	0.85	83.3	0.85	81.7	0.8
V2	% Aquatic	85	0.87	85	0.87	85	0.8
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 60 30 10	0.80	% 60 30 10	0.80	% 60 30	0.80
V4	%OW <= 1.5ft	10	0.21	10	0.21	. 15	0.2
V5	Salinity (ppt) fresh intermediate	0	1.00	0	1.00	0	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.83	HSI =	0.82	HSI =	0.82

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project..... PTE-26 Bayou Penchant Basin Plan

Marsh type acres:

Area 5

Fresh.....

8899

Condition: Future With Project

Intermediate.

		TY 0		TY 1		TY 20	
Variable	<u> </u>	Value	SI	Value	SI	Value	SI
V1	% Emergent	83.4	0.85	83.3	0.85	82.1	0.84
' V2	% Aquatic	85	0.87	85	0.87	87	0.88
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 60 30 10	0.80	% 60 30 10	0.80	% 60 30 10	0.80
V4	%OW <= 1.5ft	10	0.21	10	0.21	15	0.27
V5	Salinity (ppt) fresh intermediate	0	1.00	o	1.00	0	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.83	HSI =	0.82	HSI =	0.83

# AAHU CALCULATION Project: PTE-26 Bayou Penchant Basin Plan Area 5

<b>Future Witho</b>	ut Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	8899	0.83	7341.94	
1	8899	0.82	7337.88	7339.91
20	8899	0.82	7309.73	139152.30
			AAIM	
			AAHU's =	7324.61

Future With P	roject		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	8899	0.83	7341.94	
1	8899	0.82	7337.88	7339.91
20	8899	0.83	7357.51	139606.21
.,				
			AAHU's	7347.31

NET CHANGE IN AAHU'S DUE TO PROJECT	1
A. Future With Project AAHU's =	7347.31
B. Future Without Project AAHU's =	7324.61
Net Change (FWP - FWOP) =	22.70

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PTE-26 Bayou Penchant Basin Plan - Area 1

Date:

December 19, 1996

Total Area:

Target	FV	/OP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	30,391	63	30,391	63	**
1.	30,215	62	30,279	63	64
2	30,039	62	30,139	62	99
3	29,865	62	29,99 <b>9</b>	62	133
4	29,692	61	29,85 <b>9</b>	62	167
5	29,520	61	29,721	61	201 '
6	29,349	61	29,583	61	234
7	29,178	60	29,446	61.	267
.8	29,009	60	29,309	61	300
<b>'9</b>	28,841	60	29,173	60	332
10	28,674	59	29,038	60	364
11	28,507	59	28,903	60	396
12	28,342	59	28,769	59	427
13	28,178	58	28,635	59	458
14	28,014	58 <sup>.</sup>	28,503	59	488
15	27,852	58	28,370	59	519
16	27,690	<b>57</b>	28,239	58	549
17	27,530	57	28,108	58	578
18	27,370	57	27,977	58	607
19	27,211	56	27,847	58	636
20	27,053	56	27,907	58	854
Total Years 1-20	572,129		579,804		•
Average Annual	28,606		28,990	•	384

## AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PTE-26 Bayou Penchant Basin Plan - Area 2

Date:

December 19, 1996

Total Area:

Target	F\	VOP	Ī	FWP		
Year	Acres	%	Acres	%	Net Acres	
0	44,421	82	44,421	82		
1	44,359	82	44,390			
2	44,297	82	•	82	31	
2 3	44,235	82	44,343	82	47	
4	44,173	82	44,297	82	62	
5	44,111	82	44,250	82	78	
6	44,049		44,204	82	. 93	
7	43,987	82	44,157	82	108	
8		82	44,111	82 ·	124	
9	43,926	81	44,065	<b>82</b> ·	139	
	43,864	81	44,018	82	154	
10	43,803	81	43,972	82	16 <b>9</b>	
11	43,742	81	43,926	81	184	
12	43,680	81	43,880	81	200	
13	43,619	81	43,834	81	215	
14	43,558	81	43,788	81	230	
15	43,497	81	43,742	81	245	
16	43,436	81	43,696	81	260	
17	43,376	80	43,650	81	275	
18	43,315	80	43,604	81	289	
19	43,254	80	43,558	81	304	
20	43,194	80	43,813	81	619	
Total Years 1-20	875,475		879,300			
Average Annual	43,774		43,965	•	191	

### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PTE-26 Bayou Penchant Basin Plan - Area 3

Date:

December 19, 1996

Total Area:

Target	FV FV	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	9,969	59	9,969	59	
1	9,936	59	9,941	59	5
2	9,903	59	9,911	59	8
3	9,871	59	9,882	59	11
4	9,838	. <b>58</b>	9,853	58	15
5	9,806	58	9,823	58	18
6	9,773	58	9,794	58	21
7	9,741	58	9,765	58	24
: 8	9,709	58	9,736	58	27 ·
9	9,677	57	9,707	58	30
10	9,645	57	9,678	57	34
11	9,613	57	9,650	57	37
12	9,581	57	9,621	57	40
13	9,550	57	9,592	57	43
14	9,518	56	9,564	57	46
15	9,487	56	9,536	57	49
16	9,455	56	9,507	56	52
17	9,424	56	9,479	56	55
18	9,393	56	9,451	56	58
19	9,362	56	9,423	56	61
20	9,331	55	9,433	56	102
Total Years 1-20	192,614		193,347		
Average Annual	9,631		9,667		37

## AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PTE-26 Bayou Penchant Basin Plan - Area 4

Date:

December 19, 1996

Total Area:

Target	F	WOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	5,625	46	5 625	4.6	
1	5,592	46	5,625	46	-
2	5,560	45	5,598	46	6
3	5,528	45 45	5,571	45	11
4	5,496		5,545	45	17
5	=	45	5,518	45	22
6	5,464 5,433	45	5,492	45	28
7	5,432	44	5,465	45	33
	5,401	44	5,439	44	39
8	5,369	44	5,413	44	44
9	5,338	44	5,387	44	49
10	5,307	43	5,362	44	54
11	5,276	43	5,336	43	60
12	5,246	43	5,310	43	65
13	5,215	43	5,285	43	70
14	5,185	42	5,260	43	75
15	5,155	42	5,235	43	80
16	5,125	42	5,209	42	84
17	5,095	42	5,185	42	89
18	5,066	41	5,160	42	94
19	5,036	41	5,135	42	9 <del>9</del>
20	5,007	41	5,110	42	103
Total Years 1-20	105,894		107,015		· ·
Average Annual	5,295		5,351		56

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PTE-26 Bayou Penchant Basin Plan - Area 5

Date:

January 24, 1997

Total Area:

Target	F	WOP	I	WP	
Year	Acres	%	Acres	%	Net Acres
0	7,419	83.37	7,419	83	
1	7,412	83.29	7,413	83.30	1
2	7,404	83	7,407	83	3
3	7,397	83	7,401	83	4
4	7,389	·83	7,395	83	6 .
5	7,382	83	7,389	83	7
6	7,375	83	7,383	83	9
7	7,367	. 83	7,378	83	10
8	7,360	83	7,372	83	12.
9	7,352	83	7,366	83	13
10	7,345	83	7,360	83	15
11	7,338	82	7,354	83	16
. 12	7,330	82	7,348	83	18
13	7,323	82	7,342	83	19
14	7,316	82	7,336	82	21
15	7,308	82	7,330	82	22
16	7,301	82	7,325	82	23
17	7,294	82	7,319	82	25
18	7,287	82	7,313	82	26
19	7,279	82	7,307	82	28
20	7,272	81.72	7,301	82.05	29
Total Years 1-20	146,832		147,140		
Average Annual	7,342		7,357		15

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL MULTIPLE AREA BENEFITS SUMMARY SHEET

Project: PTE-26i Bayou Penchant Basin Plan - Increment 1

The WVA analysis for project PTe-26 includes 5 areas: Area 1, consisting of fresh marsh; Area 2, consisting of fresh marsh; Area 3 consisting of intermediate marsh; Area 4 consisting of brackish marsh; Area 5 consisting of fresh marsh.

Total benefits (AAHUs) for this project are obtained by adding the benefits calculated for each area as summarized below:

Area	_AAHU's
1	487.27
2	509.97
3	105.48
4	78.55
5	22.70

TOTAL BENEFITS = 1,204 AAHU'S

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... PTE-26 Bayou Penchant Basin Plan

Marsh type acres:

Area 1 - Increment 1

Fresh...... 48402

Condition: Future Without Project

Intermediate..

		TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V/1	% Emergent	62.8	0.67	62.4	0.66	55.9	0.60
V2	% Aquatic	65	0.69	65	0.69	60	0.64
<b>V3</b>	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 10 30 30 30	0.46	% 10 30 30 30	0.46	% 10 25 30 35	0.44
V4	%OW <= 1.5ft	40	0.55	40	0.55	35	0.4
V5	Salinity (ppt) fresh intermediate	o	1.00	o	1.00	0	1.0
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.0
		HSI ≃	0.69	HSI =	0.69	HSI =	0.6

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... PTE-26 Bayou Penchant Basin Plan

Marsh type acres:

Area 1 - Increment 1

Fresh...... 48402

Condition: Future With Project

Intermediate..

	1 [	TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	62.8	0.67	62.5	0.66	57.3	0.62
V2	% Aquatic	65	0.69	65	0.69	67	0.70
<b>V3</b>	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 10 30 30 30	0.46	% 10 30 30 30	0.46	% 10 25 30 35	0.44
V4	%OW <= 1.5ft	- 40	0.55	40	- 0.55	37	0.52
V5	Salinity (ppt) fresh intermediate	o	1.00	0	1.00	0	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	
		HSI =	0.69	HSI =	0.69	HSI =	0.67

## **AAHU CALCULATION**

Project: PTE-26 Bayou Penchant Basin Plan Area 1 - Increment 1

Future Withou	ut Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	48402	0.69		
1	48402	0.69		33509.61
20	48402	0.65	31258.31	614862.45
			AAHU's =	32418.60

Future Wi	uture With Project				Total	Cummulative
TY		Acres	x HSI		HU's	HU's
	0	48402	0.6	9	33555.17	
	1	48402	0.6		33486.85	33521.01
	20	48402	0.6	7	32260.15	624596.46
						i 1
:						
					AAHU's	32905.87

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	32905.87
B. Future Without Project AAHU's =	32418.60
Net Change (FWP - FWOP) =	487.27

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... PTE-26 Bayou Penchant Basin Plan

Marsh type acres:

Area 2 - Increment 1

Fresh..... 53949

Condition: Future Without Project

Intermediate..

		TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	82.3	0.84	82.2	0.84	80.1	0.82
V2	% Aquatic	60	0.64	60	0.64	55	0.60
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 40 40	0.60	% 20 40 40	0.60	% 20 40 40	0.60
V4	%OW <= 1.5ft	40	0.55	40	0.55	35	0.49
V5	Salinity (ppt) fresh intermediate	0	1.00	0	1.00	0	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.78	HSI =	0.78	HSI =	0.76

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... PTE-26 Bayou Penchant Basin Plan

Marsh type acres:

53949

Area 2 - Increment 1
Condition: Future With Project

	1 [	TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	82.3	0.84	82.3	0.84	80.6	0.83
V2	% Aquatic	60	0.64	60	0.64	62	0.66
<b>V3</b>	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 40 40	0.60	% 20 40 40	0.60	% 20 40 40	0.60
V4	%OW <= 1.5ft	40	0.55	40	0.55	37	0.52
V5	Salinity (ppt) fresh intermediate	0	1.00	0	1.00	0	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.78	HSI =	0.78	HSI =	0.78

## **AAHU CALCULATION**

Project:

PTE-26 Bayou Penchant Basin Plan

Area 2 - Increment 1

Future Withou	Future Without Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	53949	0.78	42107.83	
1	53949		42084.92	42096.37
20	53949	0.76	40768.24	787105.03
	• ,			
·				
			AAHU's =	41460.07

Future With Pr	Future With Project		Total	Cummulative	
TY	Acres	x HSI	HU's	HU's	
0	53949	0.78	42107.83		
1	53949		42107.83	42107.83	
20	53949	. 0.78	41817.74	797292.89	
		· · · · · · · · · · · · · · · · · · ·			
			AAHU's	41970.04	

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	41970.04
B. Future Without Project AAHU's =	41460.07
Net Change (FWP - FWOP) =	509.97

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... PTE-26 Bayou Penchant Basin Plan

Marsh type acres:

Area 3 - Increment 1

Fresh.....

Condition: Future Without Project

intermediate.. 16862

		TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	59.1	0.63	£3.9	0.63	55.3	0.60
V2	% Aquatic	55	0.60	55	0.60	57	0.61
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 15 30 30 25	0.50	% 15 30 30 25	0.50	% 15 30 25 30	0.49
V4	%OW <= 1.5ft	30	0.44	30	0.44	28	0.42
V5	Salinity (ppt) fresh intermediate	3	1.00	3	1.00	3	1.00
V6	Access Value	0.65	0.76	0.65	0.76	0.65	0.76 <b>0.6</b> 2
		HSI ≖	0.64	HSI =	0.64	HSI =	0.6

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... PTE-26 Bayou Penchant Basin Plan

Marsh type acres:

Area 3 - Increment 1

Fresh.....

Condition: Future With Project

Intermediate.. 16862

		TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	59.1	0.63	58.9	0.63	55.7	0.60
V2	% Aquatic	55	0.60	55	0.60	63	0.67
<b>V3</b>	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 15 30 30 25	0.50	% 15 30 30 25	0.50	% 15 30 25 30	0.49
V4	%OW <= 1.5ft	30	0.44	30	0.44	29	0.43
V5	Salinity (ppt) fresh intermediate	3	1.00	2	1.00	2	1.00
V6	Access Value	0.65	0.76	0.65	0.76	0.65 HSI =	0.76 <b>0.63</b>

# AAHU CALCULATION Project: PTE-26 Bayou Penchant Basin Plan Area 3 - Increment 1

Future Withou	Future Without Project		e Without Project		Total	Cummulative	
TY	Acres	x HSI	HU's	HU's			
0	16862	0.64	10738.60				
1	16862	0.64	10723.47	10731.04			
20	16862	0.62		201329.18			
	-						
·							
			AAHU's =	10603 01			

Future With Pr	uture With Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	16862	0.64		
1	16862	0.64	10723.47	10731.04
20	16862	0.63	10691.14	203438.79
			·	
			AAHU's	10708.49

NET CHANGE IN AAHU'S DUE TO PROJECT	<b>7</b>
A. Future With Project AAHU's =	10708.49
B. Future Without Project AAHU's =	10603.01
Net Change (FWP - FWOP) =	105.48

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project..... PTE-26 Bayou Penchant Basin Plan Area 4 - Increment 1

Marsh type acres......

12268

Condition: Future Without Project

		TY 0		TY 1		TY 20	
<u>Variable</u>		Value	SI	Value	SI	Value	SI
V1	% Emergent	45.9	0.51	45.6	0.51	40.8	0.47
V2	% Aquatic	35	0.55	35	0.55	30	0.51
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 5 30 30 35	0.42	% 5 30 30 35	0.42	% 5 25 30 40	0.40
V4	%OW <= 1.5ft	30	0.49	30	0.49	25	0.42
V5	Salinity (ppt)		1.00	5	1.00	4	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.60	HSI =	0.60	HSI =	0.57

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project..... PTE-26 Bayou Penchant Basin Plan

Marsh type acres...... 12

12268

Area 4 - Increment 1
Condition: Future With Project

		TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	45.9	0.51	45.6	0.51	41.7	0.48
V2	% Aquatic	35	0.55	35	0.55	40	0.58
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 5 30 30 35	0.42	% 5 30 30 35	0.42	% 5 25 30 40	0.40
V4	%OW <= 1.5ft	30	0.49	30	0.49	27	0.45
V5	Salinity (ppt)	5	1.00	3.5	1.00	3.5	1.00
V6	Access Value	1.00	1.00	0.98	0.98	0.98	0.98
	lt	HSI =	0.60	HSI =	0.60	HSI =	0.58

## **AAHU CAL CULATION**

Project: PTE-26 Jayou Penchant Basin Plan

Area 4 - Increment 1

<b>Future Withou</b>	Future Without Project		re Without Project		Total	Cummulative	
TY	Acres	x HSI	HU's	HU's			
0	12268	0.60	7394.66				
1	12268	0.60	7376.76	7385.71			
20	12268	0.57	6937.84	135988.70			
	. ,						
			= e'UHAA	7168.72			

Future With Project				Cummulative	
TY	Acres	x HSI	HU's	HU's	
0	12268	0.60	7394.66		
1	12268	0.60	7351.13	7372.89	
20	12268	0.58	7130.18	137572.43	
			,		
i					
·			·		
			AAHU's	7247.27	

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	7247.27
B. Future Without Project AAHU's =	7168.72
Net Change (FWP - FWOP) =	78.55

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... PTE-26 Bayou Penchant Basin Plan

Marsh type acres:

Area 5 - Increment 1

Condition: Future Without Project

Fresh.....

8,899

Intermediate..

	7	TY 0		TY 1		TY 20	
Variable	<u> </u>	Value	SI	Value	SI	Value	Si
V1	% Emergent	83.4	0.85	83.3	0.85	81.7	0.84
V2	% Aquatic	85	0.87	85	0.87	85	0.87
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 60 30 10	0.80	% 60 30 10	0.80	% 60 30 10	0.80
V4	%OW <= 1.5ft	10	0.21	10	0.21	15	0.27
V5	Salinity (ppt) fresh intermediate	0	1.00	o	1.00	o	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.83	HSI ≈	0.82	HSI =	0.82

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... PTE-26 Bayou Penchant Basin Plan

Marsh type acres:

Area 5 - Increment 1

Fresh.....

8899

Condition: Future With Project

Intermediate..

	1 [	TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	83.4	0.85	83.3	0.85	82.1	0.84
V2	% Aquatic	85	0.87	85	0.87	87	0.88
<b>V3</b>	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 60 30 10	0.80	% 60 30 10	0.80	% 60 30 10	0.80
V4	%OW <= 1.5ft	. 10	0.21	10	0.21	15	0.27
V5	Salinity (ppt) fresh intermediate	0	1.00	0	1.00	0	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.83	HSI =	0.82	HSI =	0.83

## **AAHU CALCULATION**

Project: PTE-26 Bayou Penchant Basin Plan

Area 5 - Increment 1

Future Without Project			Total	Cummulative	
TY	Acres	x HSI	HU's	HU's	
0	8899	0.83	7341.94		
1	8899	0.82	7337.88	7339.91	
20	8899	0.82	7309.73	139152.30	
			AAHU's =	7324 61	

Future With P	Future With Project		Total	Cummulative	
TY	Acres	x HSI	HU's	HU's	
0	8899	0.83	7341.94		
1	8899	0.82	7337.88	7339.91	
20	8899	0.83	7357.51	139606.21	
				•	
	•				
·					
				· · · · · · · · · · · · · · · · · · ·	
·				· · · · · · · · · · · · · · · · · · ·	
			AAHU's	7347.31	

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	7347.31
B. Future Without Project AAHU's =	7324.61
Net Change (FWP - FWOP) =	22.70

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PTE-26 Bayou Penchant Basin Plan - Area 1 - Increment 1

Date:

December 19, 1996

Total Area:

Target	FW	/OP	F`	WP		
Year	Acres	%	Acres	%	Net Acres	
0	30,391	63	30,391	63		
1	30,215	62	30,269	63	54	
2	30,039	62	30,129	62	89	
3	29,865	62	29,989	62	123	
4	29,692	61	29,850	62	158	
5	29,520	61	29,711	61	191	
6	29,349	61	29,573	61	225	
7	29,178	60	29,436	61	258	
8	29,009	60	29,299	61	290	
9	28,841	60	29,163	60	323	
10	28,674	59	29,028	60	355	
/ <b>11</b>	28,507	59	28,893	60	386	
12	28,342	59	28,759	59	417	
13	28,178	58	28,626	59	448	
14	28,014	58	28,493	59	479	
15	27,852	58	28,361	59	509	
16	27,690	57	28,229	58	539	
17	27,530	57	28,098	58	569	
18	27,370	57	27,968	58	598	
19	27,211	56	27,838	58	627	
20	27,053	56	27,711	57	658	
Total Years 1-20	572,129		579,425			
Average Annual	28,606		28,971		365	

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

**Project:** 

PTE-26 Bayou Penchant Basin Plan - Area 2 - Increment 1

Date:

December 19, 1996

Total Area:

Target	FV	VOP	FWP		
Year	Acres	%	Acres	%	Net Acres
0	44,421	82	44,421	82	••
1	44,359	82	44,374	82	15
2	44,297	82	44,327	82	31
3	44,235	82	44,281	82	46
4	44,173	82	44,234	82	62
5	44,111	82	44,188	82	77
6	44,049	82	44,142	82	92
7	43,987	82	44,095	82	108
8	43,926	81	44,049	82	123
<b>9</b>	43,864	81	44,003	82	138
10	43,803	81	43,956	81	153
11	43,742	81	43,910	81	169
12	43,680	81	43,864	81	184
13	43,619	81	43,818	81	199
14	43,558	81	43,772	81	214
15	43,497	81	43,726	81	229
16	43,436	81	43,680	81	244
17	43,376	80	43,634	81	259
18	43,315	80	43,589	81	274
19	43,254	80	43,543	81	289
20	43,194	80	43,497	81	303
Total Years 1-20	875,475		878,683		
Average Annual	43,774		43,934	•	160

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PTE-26 Bayou Penchant Basin Plan - Area 3 - Increment 1

Date:

December 19, 1996

Total Area:

Target	FW.	VOP	F	FWP	
Year	Acres	%	Acres	%	Net Acres
0	9,969	59	9,969	59	
1	9,936	59	9,939	59	3
2	9,903	59	9,910	59	7
3	9,871	59	9,880	59	10
4	9,838	58	9,851	58	13
5	9,806	58	9,822	58	16
6	9,773	58	9,793	58	19
7	9,741	58	9,764	58	23
8	9,709	58	9,735	58	26
9	9,677	<b>57</b>	9,706	58	29
10	9,645	57	9,677	57	32
; 11	9,613	57	9,648	57	35
12	9,581	57	9,619	57	38
13	9,550	57	9,591	57	41
14	9,518	56	9,562	57	44
15	9,487	56	9,534	57	47
16	9,455	56	9,506	56	50
17	9,424	56	9,477	56	53
18	9,393	56	9,449	56	56
19	9,362	56	9,421	56	59
20	9,331	55	9,393	56	62
Total Years 1-20	192,614		193,278		
Average Annual	9,631		9,664		33

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PTE-26 Bayou Penchant Basin Plan - Area 4 - Increment 1

Date:

December 19, 1996

Total Area:

Target	FV	VOP	F	FWP		
Year	Acres	%	Acres	%	Net Acres	
0	5,625	46	5,625	46		
1	5,592	46	5,598	46	6	
2	5,560	45	5,571	45	11	
3	5,528	45	5,545	45	17	
4	5,496	45	5,518	45		
5	5,464	45	5,492	45 45	22	
6	5,432	44	5,465	45 45	28	
7	5,401	44	5,439	43 44	33	
8	5,369	44	5,413	4 <del>4</del> 44	39	
9	5,338	44	•	44 44	44.	
10	5,336	43	5,387 <sub>.</sub>		49	
11	="		5,362	44	54	
12	5,276 5,246	43	5,336	43	60	
13	5,246 5,215	43	5,310	43	65	
	5,215.	43	5,285	43	<b>70</b>	
14	5,185	42	5,260	43	75	
15	5,155	42	5,235	43	80	
16	5,125	42	5,209	42	84	
17	5,095	42	5,185	42	89	
18	5,066	41	5,160	42	94	
19	5,036	41	5,135	42	99	
20	5,007	41	5,110	42	103	
Total Years 1-20	105,894		107,015			
Average Annual	5,295		5,351		56	

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PTE-26 Bayou Penchant Basin Plan - Area 5 - Increment 1

Date:

January 24, 1997

Total Area:

Target	FV	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	7,419	83.37	7,419	83	
1	7,412	83.29	7,413	83.30	1
2	7,404	83	7,407	83	3
3	7,397	83	7,401	83	4
4	7,389	83	7,395	83	6
5	7,382	83	7,389	83	7
6	7,375	83	7,383	83	9
7	7,367	83	7,378	83 ·	10
8	7,360	83	7,372	83	12
<b>8</b> 9	7,352	83	7,366	83	13
10	7,345	83	7,360	83	15
11	7,338	82	7,354	83	16
12	7,330	82	7,348	83	18
13	7,323	82	7,342	83	19
14	7,316	82	7,336	82	21
15	7,308	82	7,330	82	22
16	7,301	82	7,325	82	23
17	7,294	82	7,319	82	25
18	7,287	82	7,313	82	26
19	7,279	82	7,307	82	28
20	7,272	81.72	7,301	82.05	. 29
Total Years 1-20	146,832		147,140		•
Average Annual	7,342	· · · · · · · · · · · · · · · · · · ·	7,357		15

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project..... PTV-19b Sediment Trapping at the Jaws

Marsh type acres:

Condition: Future Without Project

Fresh..... 2782

Intermediate.

		TY 0		TY 1		TY 20	
<u>Variable</u>	<u> </u>	Value	SI	Value	SI	Value	SI
V1	% Emergent	7	0.16	6	0.15	1	0.1
V2	% Aquatic	10	0.19	10	0.19	15	0.24
V3	Interspersion Class 1 Class 2 Class 3 Class 4	100	0.20	100	0.20	100	0.20
V4	Class 5 %OW <= 1.5ft	66	0.84	66	0.84	70	0.89
√5	Salinity (ppt) fresh intermediate	2	1.00	2	1.00	2	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.31	HSI =	0.31	HSI =	0.29

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project..... PTV-19b Sediment Trapping at the Jaws

Marsh type acres:

Condition: Future With Project

Fresh..... Intermediate.

2782

TY 0 TY 1 Variable Value SI Value Value SI V1 % Emergent 0.16 10 0.19 73 0.76 V2 % Aquatic 10 0.19 20 0.28 70 0.73 **V3** Interspersion Class 1 0.20 0.40 50 0.75 Class 2 25 Class 3 100 25 100 Class 4 Class 5 **V4** %OW <= 1.5ft 66 0.84 63 0.81 75 0.94 V5 Salinity (ppt) fresh 2 1.00 2 1.00 2 1.00 intermediate V6 Access Value 1.00 1.00 1.00 1.00 1.00 1.00 0.80

## AAHU CALCULATION Project: PTV-19b Sediment Trapping at the Jaws

<b>Future Witho</b>	ut Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	2782	0.31	865.75	
1	2782	0.31	849.91	857.83
20	2782	0.29	793.45	15611.88
LL				
			AAHU's =	823.49

Future With P	roject		Total	Cummulative	
TY	Acres	x HSI	HU's	HU's	
0	2782	0.31	865.75		
1	2782	0.36	996.78	931.27	
20	2782	0.80	2226.75	30623.60	
		<u> </u>			
;					
			AAHII's	1577 74	

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	1577.74
B. Future Without Project AAHU's =	823.49
Net Change (FWP - FWOP) =	754.26

### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PTV-19b Sediment Trapping at the Jaws

Date:

October 2, 1996

Total Area:

Target	FV	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	182 <sup>-</sup>	7	182	7	
1	173	6	269	10	 96
2	165	6	361	13	96 196
3	157	6	453	16	296
4	149	5	545	20	396
5	141	5	637	23	497
6	133	5	730	2 <i>5</i> 26	597
7	125	4	822	30	597 697
8	117	4	914	33	79 <b>7</b>
9	109	4	1,006	36	897
10	101	4	1,008	39	997 997
11	92	3	1,190	43	1,098
12	84	3	1,282	46	1,198
13	76	3	1,374	49	1,198
14	68	2	1,466	53	
15	60	2 2	1,558	56	1,398 1,498
16	52	2	1,651	59	•
17	44	2	1,743	63	1,598 1,699
18	36	1	1,835	66	
19	28	1	1,927	69	1,799 1,899
20	20	1	2,019	73	1,999
Total Years 1-20	1,930		22,880		
Average Annual	96		1,144		1,048

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project..... PTV-10/XTV-25 Oaks/Avery Canal Hydr. Rest.

Marsh type acres:

Increment 1

Fresh.....

Condition: Future Without Project

Intermediate.

3348

	ii . i .	TY 0		TY 1		TY 3	
<u>Variable</u>		Value	SI	Value	SI	Value	SI
V1	% Emergent	71	0.74	71	0.74	70	0.73
V2	% Aquatic	4	0.14	4	0.14	4	0.14
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 40 25 25 10	0.67	% 40 25 25 10	0.67	% 40 25 25 10	0.67
V4	%OW <= 1.5ft	80	1.00	80	1.00	80	1.00
V5	Salinity (ppt) fresh intermediate	4	1.00	4	1.00	4	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	<u></u>	HSI =	0.58	HSI =	0.58	HSI =	0.58

Project..... PTV-10/XTV-25 Oaks/Avery Canal Hydr. Rest. FWOP

		TY 20					
Variable		Value	SI	Value	SI	Value	SI
· V1	% Emergent	65	0.69				
V2	% Aquatic	4	0.14				
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 40 25 25 10	0.67	%		%	
V4	%OW <= 1.5ft	80	1.00				
V5 	Salinity (ppt) fresh intermediate	4	1.00				
V6	Access Value	1.00	1.00				
		HSI =	0.56	HSI =	I	HSI =	

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project..... PTV-10/XTV-25 Oaks/Avery Canal Hydr. Rest.

Marsh type acres:

increment 1

Fresh.....

Condition: Future With Project

Intermediate.

3348

<u>Variable</u>			TY 0		TY 1		TY 3	
		Value	SI	Value	SI	Value	SI	
V1	% Emergent	71	0.74	71	0.74	72	0.75	
V2	% Aquatic	4	0.14	5	0.15	10	0.19	
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 40 25 25 10	0.67	% 40 25 25 10	0.67	% 40 25 25 10	0.67	
V4	%OW <= 1.5ft	80	1.00	80	1.00	80	1.00	
. <b>V</b> 5	Salinity (ppt) fresh intermediate	4	1.00	4	1.00	4	1.00	
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00 0.62	

Project..... PTV-10/XTV-25 Oaks/Avery Canal Hydr. Rest.

*		TY 20					
/ariable	ļ.,	Value	SI	Value	SI	Valu●	SI
V1	% Emergent	70	0.73				
V2	% Aquatic	19	0.27				
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 40 25 25 10	0.67	%		%	
V4	%OW <= 1.5ft	80	1.00				
V5	Salinity (ppt) fresh intermediate	4	1.00				
V6	Access Value	1.00	1.00				

### **AAHU CALCULATION**

Project: PTV-10/XTV-25 Oaks/Avery Canal Hydr. Rest.

Increment 1

<b>Future Withou</b>	Vithout Project		Total	Cummulative	
TY	Acres	x HSI	HU's	HU's	
0	3348	0.58	1952.11		
1	3348	0.58	1952.11	1952.11	
3	3348	0.58	1942.06	3894.17	
20	3348	0.56	1891.12	32582.05	
			AAHU's =	1921.42	

Future With P	roject		Total	Cummulative
ΤΥ	Acres	x HSI	HU's	HU's
0	3348	0.58	1952.11	
1	3348	0.59	1973.39	1962.75
3	3348	0.62	2077.97	4051.36
20	3348	0.65	2188.41	36264.24
	1		AAHU's	2113.92

NET CHANGE IN AAHU'S DUE TO PROJECT				
A. Future With Project AAHU's =	2113.92			
B. Future Without Project AAHU's =	1921.42			
Net Change (FWP - FWOP) =	192.50			

#### **AVERAGE ANNUAL ACRES OF EMERGENT MARSH**

Project:

PTV-10/XTV-25 Oaks/Avery Canal Hydr. Rest. - Incr. 1

Date:

(WVA conducted during PPL5 candidate evaluations)

Total Area:

Target	FV.	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	2 205	71	2 2 2 5	<b>~</b> ·	
0	2,385	71.	2,385	71	**
1	2,375	71	2,376	71	1
2	2,365	71	2,393	71	18
3	2,355	71	2,409	72	44
4	2,345	70	2,405	72	50
5	2,335	70	2,402	72	57
6	2,325	70	2,398	72	63
7	2,315	69	2,394	<b>72</b> ·	69
. 8	2,305	69	2,390	71	<b>75</b> .
9	2,295	69	2,387	71	81
10	2,285	69	2,383	71	88
- 11	2,275	68	2,379	71	94
12	2,266	68	2,376	71	100
13	2,256	- 68	2,372	71	106
14	2,246	67	2,368	71	113
15	2,236	67	2,365	71	119
16	2,226	67	2,361	71	125
17	2,216	66	2,357	70	131
18	2,206	66	2,353	70	138
19	2,196	66	2,350	70	144
20	2,186	66	2,346	70	150
Total Years 1-20	45,609		47,564	•	
Average Annual	2,280		2,378		98

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project PTV-10/XTV-25 Oaks/Avery Canal Hydro. Rest.	Marsh type acres:
	Fresh

Condition: Future Without Project intermediate. 5365

		TY 0		TY 1		TY 3	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	83	0.85	83	ი.85	82	0.84
V2	% Aquatic	4	0.14	4	0.14	4	0.14
<b>V3</b>	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 40 25 25 10	0.67	% 40 25 25 10	0.67	% 40 25 25 10	0.67
V4	%OW <= 1.5ft	80	1.00	80	1.00	80	1.00
V5	Salinity (ppt) fresh intermediate	4	1.00	4	1.00	4	1.00
V6	Access Value	1,00	1.00	1.00	1.00	1.00	1.00
		H\$I ≡	0.62	HSI =	0.62	H\$I =	0.62

Project..... PTV-10/XTV-25 Oaks/Avery Canal Hydro. Rest. FWOP

		TY 20					
Variable	Į.	Value	SI	Value	SI	Value	SI
V1	% Emergent	76	0.78			·	
V2	% Aquatic	4	0.14				
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 40 25 25 10	0.67	%		%	
V4	%OW <= 1.5ft	80	1.00				
V5	Salinity (ppt) fresh intermediate	4	1.00				-
V6	Access Value	1.00	1.00		•		
		HSI =	0.60	HSI =		HSI =	

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project..... PTV-10/XTV-25 Oaks/Avery Canal Hydro. Rest. Marsh type acres:

		TY 0		TY 1		TY 3	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	83	U.85	83	0.85	83	0.8
V2	% Aquatic	4	0.14	5	0.15	10	0.19
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 40 25 25 10	0.67	% 40 25 25 10	0.67	% 40 25 25 10	0.67
V4	%OW <= 1.5ft	. 80	1.00	80	1.00	80	1.00
V5	Salinity (ppt) fresh intermediate	4	1.00	3	1.00	3	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00

Project..... PTV-10/XTV-25 Oaks/Avery Canal Hydro. Rest. FWP

		TY 20					
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	79	0.81				
V2	% Aquatic	19	0.27				
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 40 25 25 10	0.67	%		%	
V4	%OW <= 1.5ft	80	1.00				
∨5	Salinity (ppt) fresh intermediate	3	1.00				
V6	Access Value	1.00	1.00				
		HSI =	0.69	HSI =		HSI =	

AAHU CALCULATION

Project: PTV-10/XTV-25 Oaks/Avery Canal Hydro. Rest.

<b>Future Witho</b>	ut Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	5365	0.62	3316.20	
1	5365	0.62	3316.20	3316.20
3	5365	0.62	3300.87	6617.07
20	5365	0.60	3207.64	55322.34
			AAHU's =	3262.78

Future With Project			Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	5365	0.62	3316.20	
1	5365	0.63	3353.39	3334.80
3	5365	0.66	3517.17	6870.57
20	5365	0.69	3676.73	61148.17
;				
			AAHU's	3567.68

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	3567.68
B. Future Without Project AAHU's =	3262.78
Net Change (FWP - FWOP) =	304.90

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

**Project:** 

PTV-10/XTV-25 Oaks/Avery Canal Hydrologic Restoration

Date:

(WVA conducted during PPL5 candidate evaluations)

Total Area:

Target	FV	VOP	F	WP		
Year	Acres	%	Acres	%	Net Acres	
_						
0	4,465	83	4,465	83		
1	4,447	83	4,449	83	2	
2	4,429	83	4,457	83	10	
3	4,410	83	4,465	83	37	
4	4,391	82	4,453	83	43	
5	4,373	82	4,441	83	50	
6	4,354	. 82	4,429	83	56	
7	4,335	81	4,417	82	63	
. <b>8</b>	4,317	81	4,405	82	70	
9	4,298	80	4,393	82	76	
10	4,279	80	4,381	82	83	
11	4,261	80	4,369	81	90	
12	4,242	79	4,357	81	96	
13	4,224	79	4,345	81	103	
14	4,205	79	4,333	81	109	
15	4,186	78	4,321	81	116	
16	4,168	78	4,309	80	123	
17	4,149	78	4,297	80	129	
18	4,130	77	4,285	80	136	
19	4,112	<i>77</i>	4,273	80	143	
20	4,093	77	4,261	79	149	
Total Years 1-20	85,403		87,440	٠		
Average Annual	4,270		4,372		102	

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL MULTIPLE AREA BENEFITS SUMMARY SHEET

Project: PBA-48a Myrtle Grove Siphon Enlargement

The WVA analysis for project PBA-48a includes 2 areas: Area 1, consisting of brackish marsh; Area 2, consisting of brackish marsh.

Total benefits (AAHUs) for this project are obtained by adding the benefits calculated for each area as summarized below:

_Area_	_AAHU's
1	1,345.93
. 2	586.07

TOTAL BENEFITS = 1,932 AAHU'S

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL **Brackish Marsh**

Project...... PBA-48a Myrtle Grove Siphon Enlargement

Marsh type acres.....

22,627

Condition: Future Without Project

\/m=t=k.t.		TY 0		TY 1		TY 20	
Variable	4	Value	SI	Value	SI	Value	SI
V1	% Emergent	68	0.71	67	0.70	61	0.6
V2	% Aquatic	20	0.44	20	0.44	15	0.4
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 10 15 40 35	0.42	% 10 15 40 35	0.42	% 5 10 45 40	0.37
V4	%OW <= 1.5ft	50	0.74	50	0.74	40	0.61
V5	Salinity (ppt)	8	1.00	8	1.00	9	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.70	HSI =	0.69	HSI =	0.65

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project...... PBA-48a Myrtle Grove Siphon Enlargement Marsh type acres.......

22627

Area 1

Condition: Future With Project

Variable		TY 0		TY 1		TY 20	
variable		Value	SI	Value	SI	Value	SI
<u>V1</u>	% Emergent	68	0.71	68	0.71	67	0.70
V2	% Aquatic	20	0.44	25	0.48	60	0.72
<b>V3</b>	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 10 15 40 35	0.42	% 10 15 40 35	0.42	% 15 10 35 40	0.43
V4	%OW <= 1.5ft	50	0.74	50	0.74	60	0.87
V5	Salinity (ppt)	8	1.00	6	1.00	6	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	<u> </u>	HSI =	0.70	HSI =	0.71	HSI =	0.76

### **AAHU CALCULATION**

PBA-48a Myrtle Grove Siphon Enlargement Area 1 Project:

<b>Future Witho</b>	ut Project			Total	Cummulative
TY	Acres	Х	HSI	E'UH	HU's
0	22627		0.70	15805.73	
1	22627		0.69	15713.12	15759.43
20	22627		0.65	14658.36	288529.06
				= e'UHAA	15214.42

Future With Project		e With Project		Cummulative	
TY	Acres	x HSI	HU's	HU's	
0	22627	0.70	15805.73		
1	22627	0.71	15993.63	15899.68	
20	22627	0.76	17196.62	315307.33	
		,			
			AAHU's	16560.35	

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	16560.35
B. Future Without Project AAHU's =	15214.42
Net Change (FWP - FWOP) =	1345.93

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project...... PBA-48a Miss. River Diversion at Wilkinson Canal Marsh type acres....... 13633

Area 2

Condition: Future Without Project

		TY 0		TY 1		TY 20	
<u>Variable</u>		Value	SI	Value	Si	Value	SI
V1	% Emergent	49	0.54	48	0.53	33	0.40
V2	% Aquatic	30	0.51	30	0.51	20	0.44
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 10 40 30	0.48	% 20 10 40 30	0.48	% 10 10 30 50	0.38
V4	%OW <= 1.5ft	50	0.74	50	0.74	40	0.61
V5	Salinity (ppt)	6	1.00	6	1.00	7	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	<u>L</u>	HSI ≃	0.63	HSI =	0.63	HSI =	0.53

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project...... PBA-48a Miss. River Diversion at Wilkinson Canal Marsh type acres....... 13633

Area 2

Condition: Future With Project

· ·		TY 0		TY 1	TY 1		TY 20	
Variable	ļ	Value	SI	Value	SI	Value	SI	
V1	% Emergent	49	0.54	48	0.53	40	0.46	
V2	% Aquatic	30	0.51	35	0.55	50	0.65	
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 10 40 30	0.48	% 20 10 40 30	0.48	% 20 7 35 38	0.46	
V4	%OW <= 1.5ft	50	0.74	50	0.74	50	0.74	
V5	Salinity (ppt)	6	1.00	5	1.00	5	1.00	
V6	Access Value	1.00	1.00	1.00	1.00	· 1.00		
	<u>L</u>	HSI =	0.63	HS1 =	0.64	HSI =	0.61	

### **AAHU CALCULATION**

Project: PBA-48a Miss. River Diversion at Wilkinson Canal Area 2

Future Without Project			Total	Cummulative
TY	Acres	x HSI	HU's	B'UH
0	13633	0.63		
1	13633	0.63	8591.02	8623.12
20	13633	0.53	7183.11	149854.21
			1	
			AAHU's =	7923.87

Future With P	Future With Project		Total	Cummulative	
TY	Acres	x HSI	HU's	HU's	
0	13633	0.63	8655.22		
1	13633	0.64	8675.82	8665.52	
20	13633	0.61	8327.67	161533.14	
		·			
<u> </u>			AAHU's	8509.93	

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	8509.93
B. Future Without Project AAHU's =	7923.87
Net Change (FWP - FWOP) =	586.07

### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PBA-48a Myrtle Grove Siphon Enlargement - Area 1

Date:

February 6, 1997

Total Area:

Target	FV	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	15046				
0	15,345	68	15,345	68	
1	15,267	67	15,322	68	54
2	15,190	67	15,298	68	108
3	15,113	67	15,275	68	162
4	15,037	66	15,252	67	215
5	14,961	66	15,229	67	268
6	14,885	66	15,206	67	321
7	14,810	65	15,183	67	373
8	14,735	65	15,160	67	425
9	14,660	65	15,137	67	476
10	14,586	64	15,114	67	528
. 11	14,512	64	15,091	67	579
12	14,439	64	15,068	67	629
13	14,366	. 63	15,045	66	679
14	14,293	63	15,022	66	729
15	14,221	63	14,999	66	779
16	14,149	63	14,977	66	828
17	14,077	62	14,954	66	877
18	14,006	62	14,931	66	925
19	13,935	62	14,908	66	973
20	13,865	61	15,186	67	1,321
Total Years 1-20	291,105		302,355		
Average Annual	14,555		15,118		562

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PBA-48a Myrtle Grove Siphon Enlargement - Area 2

Date:

February 6, 1997

Total Area:

Target	FW	OP	F	WP		
Year	Acres	%	Acres	%	Net Acres	
0	6,634	49	6,634	49		
1	6,509	48	6,572	48	62	
2	6,387	47	6,510	48	123	
3	6,267	46	6,449	47	182	
4	6,149	45	6,388	47	239	
5	6,034	44	6,328	46	294	
6	5,920	43	6,269	46	348	
7	5,809	43	6,210	46	401	
8	5,700	42	6,151	45	452 <sup>-</sup>	
9	5,700 5,593	41	6,094	45	501	
	5,488	40	6,036	44	5 <b>49</b>	
10		39	5,980	44	595	
11	5,385 5,283	39	5,924	43	640	
12	•	38	5,868	43	684	
13	5,184		•	43	726	
14	5,087	37 <sup>.</sup>	5,813		720 767	
15	4,991	37	5,758	42		
16	4,897	36	5,704	42	807	
17	4,805	35	5,650	41	· 845	
18	4,715	35	5,597	41	882	
19	4,627	34	5,545	41	918	
20	4,540	33	5,493	40	953	
Total Years 1-20	109,371		120,338			
Average Annual	5,469		6,017		548	

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project..... XMR-10b Channel Armor Gap West

Marsh type acres:

Fresh.....

Condition: Future Without Project

Intermediate...

4800

	7 [	TY 0		TY 1		TY 10	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	1	0.11	1	0.11	2	0.1
V2	% Aquatic	19	0.27	19	0.27	23	0.3
V3	Interspersion Class 1 Class 2 Class 3 Class 4	100	0.20	100	0.20	% 2 98	0.2
V4	Class 5 %OW <= 1.5ft	10	0.21	10	0.21	12	0.2
V <b>5</b>	Salinity (ppt) fresh intermediate	2	1.00	2	1.00	2	1.0
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	į_	HSI =	0.24	HSI =	0.24	HSI =	0.

Project..... XMR-10b Channel Armor Gap West

		TY 20					
Variable	<u> </u>	Value	SI	Value	SI	Value	SI
V1	% Emergent	3	0.13				
V2	% Aquatio	30	0.37	· · · · · · · · · · · · · · · · · · ·			
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 3 97	0.22	9	<b>√</b> 0	%	
V4	%OW <= 1.5R	15	0.27	_			
V5	Salinity (ppt) fresh intermediate	2	1.00			·	
V6	Access Value	1.00	1.00				
•		HSI =	0.27	HSI =		HSI =	

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project..... XMR-10b Channel Armor Gap West

Marsh type acres:

Fresh.....

4800

Condition: Future With Project

Intermediate.

		TY 0		TY 1		TY 10	
Variable	<u> </u>	Value	SI	Value	SI	Value	SI
V1	% Emergent	1	0.11	1	0.11	6	0.15
V2	% Aquatic	19	0.27	19	0.27	50	0.55
<b>V3</b>	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 100	0.20	100	0. <b>20</b>	% 6 94	0.25
V4	%OW <= 1.5ft	10	0.21	10	0.21	25	0.38
V5	Salinity (ppt) fresh intermediate	2	1.00	1	1.00	1	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.24	HSI =	0.24	HSI =	0.32

Project..... XMR-10b Channel Armor Gap West

	1	TY 20					
Variable_		Value	SI	Value	SI	Value	SI
<u>V1</u>	% Emergent	16	0.24				•
V2	% Aquatic	80	0.82				
V3	Interspersion Class 1 Class 2 Class 3	% 16	0.33	%		%	
	Class 4 Class 5	84					
V4	%OW <= 1.5ft	40	0.55				
V5	Salinity (ppt) fresh intermediate	1	1.00				
V6	Access Value	1.00	1.00				

# Project: XMR-10b Channel Armor Gap West

Future Withou	TY Acres		Total	Cummulative
TY			HU's	HU's
0	4800	0.24	1152.22	
1	4800	0.24	1152.22	1152.22
10	4800	0.25	1221.80	10683.12
20	4800	0.27	1306.66	12642.33
			AAHU's =	1223.88

Future With Project			Total	Cummulative	
TY	Acres	x HSI	HU's	HU's	
0	4800	0.24	1152.22		
1	4800	0.24	1152.22	1152.22	
10	4800	0.32	1550.25	12161.14	
20	4800	0.44	2110.06	18301.56	
*.			AAHU's	1580.75	

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	1580.75
B. Future Without Project AAHU's =	1223.88
Net Change (FWP - FWOP) =	356.86

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

**Project:** 

XMR-10b Channel Armor Gap West

Date:

(WVA conducted during PPL5 candidate evaluations)

Total Area:

Target	FV	/OP	F	WP		
Year	Acres	%	Acres	%	Net Acres	
0	60	1	60	1		
1	60	1	60	1	0	
2	63	1	87	2	24	
3	67	1	113	2	46	
4	70	1	1 <b>40</b>	3	70	
5	73	2	167	3	94	
6	77	2	193	4	116	
7	80	2	220	5	140	
8	83	. 2	247	5	164	
<b>/ 9</b>	87	2	273	6	186	
10	90	2	300	6	210	
11	96	2	348	7	252	
12	102	2	396	8	294	
13	108	2	444	9	336	
14	114	2	492	10	378	
15	120	3	540	11	420	
16	126	3	588	12	462	
17	132	3	636	13	504	
18	138	3	684	14	546	
19	144	3	732	15	588	
20	150	3	780	16	630	
Total Years 1-20	1,980		7,440			
Average Annual	99		372		273	

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL MULTIPLE AREA BENEFITS SUMMARY SHEET

Project: TE-7f Lake Boudreaux Freshwater Introduction - Alternative B

The WVA analysis for project TE-7f includes 2 areas: Area 1, consisting of intermediate marsh; Area 2, consisting of brackish marsh.

Total benefits (AAHUs) for this project are obtained by adding the benefits calculated for each area as summarized below:

Area	_ AAHUs
1	402.57
2	19.17

TOTAL BENEFITS = 422 AAHUs

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... TE-7f Lake Boudreaux Freshwater Introduction Marsh type acres:

Alternative 8-Area 1 Fresh......

Condition: Future Without Project Intermediate.. 5082

		TY 0		TY 1		TY 20	
Variable:		Value	SI	Value	\$I .	Value	SI
V1	% Emergent	74	0.77	73	0.76	56	0.60
V2	% Aquatic	25	0.33	25	0.33	20	0.28
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 30 40 30	0.66	% 30 40 30	0.68	% 25 40 25 10	0.61
V4	%OW <= 1.5ft	70	0.89	70	0.89	60	0.78
V5	Salinity (ppt) fresh intermediate	3	1.00	3	1.00	4	1.00
V6	Access Value	0.982	0.99	0.982	0.99	0.982	0.99
		HSI =	0.68	HSI =	0.68	HSI =	0.58

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project......TE-7f Lake Boudreaux Freshwater Introduction Marsh type acres

Alternative B-Area 1 Fresh...........

Condition: Future With Project Intermediate.. 5082

TY 0 TY 1 **TY 20** Value **Variable** SI Value Value SI V1. 74 0.77 73 % Emergent 0.76 66 0.69 **V2** 25 35 0.42 0.33 60 % Aquatic 0.64 **V3** Interspersion Class 1 30 0.66 30 0.66 30 0.64 40 40 35 Class 2 30 Class 3 30 30 5 Class 4 Class 5 %OW <= 1.5ft 70 0.89 70 0.89 0.83 **V4** V5 Salinity (ppt) 1.00 1.00 fresh 1.00 intermediate 3 0.982 0.812 0.87 0.812 V6 0.87 Access Value

### **AAHU CALCULATION**

Project: TE-7f Lake Boudreaux Freshwater Introduction Alternative B-Area 1

Future Withou	ut Project			Total	Cummulative
TY	Acres	x HSI		HU's	HU's
0	5082	(	0.68	3458.08	
1	5082		86.0	3439.30	3448.69
20	5082	(	0.58	2965.05	60841.38
				AAHU's =	3214.50

Future With P	roject		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	5082	0.68	3458.08	
1	5082	0.70	3563.22	3510.65
20	5082	0.72	3682.14	68830.90
			AAHU's	3617.08

NET CHANGE IN AAHU'S DUE TO PROJECT	7
A. Future With Project AAHU's =	3617.08
B. Future Without Project AAHU's =	3214.50
Net Change (FWP - FWOP) =	402.57

## WETLAND VALUE ASSESSMENT COMMUNIT.' MODEL Brackish Marsh

Project...... TE-7f Lake Boudreaux Freshwater Introduction
Alternative B-Area 2

Marsh type acres.....

2140

Condition: Future Without Project

	7 (	TYO		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	77	0.79	76	0.78	68	0.71
V2	% Aquatic	10	0.37	10	0.37	8	0.36
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 25 50 25	0.65	25 50 25	0.65	% 20 50 . 30	0.62
V4	%OW <= 1.5ft	70	1.00	70	1.00	60	0.87
V5	Salinity (ppt)	4	1.00	4	1.00	5	1.00
V6	Access Value	0.860	0.87	0.860	0.87	0.860	0.87
		HSI =	0.74	HSI =	0.73	HSI =	0.69

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project...... TE-7f Lake Boudreaux Freshwater Introduction

Marsh type acres......

2140

Alternative B-Area 2

Condition: Future With Project

		TYO		TY 1		TY 20	
Variable.		Value	SI	Value	SI	Value	SI
V1	% Emergent		0.79	78	0.78	72	0.75
V2	% Aquatie	10	0.37	15	0.41	35	0.55
V3	interspersion Class 5 Class 2 Class 3 Class 4 Class 5	% 25 50 25	0.65	% 25 50 25	0.65	% 20 50 30	0.62
V4	%OW <= 1.5ft	70	1.00	70	1.00	65	. 0.94
V <b>5</b>	Salinity (ppt)	4	1.00	3	1.00	3	1.00
V6	Access Value	0.860 HSI =	0.87	0.639	0.68	0.639 HSI =	0.68 <b>0.72</b>

### **AAHU CALCULATION**

Project: TE-7f Lake Boudreaux Freshwater Introduction

Alternative B-Area 2

<b>Future Witho</b>	Future Without Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	2140	0.74	1575.59	
1	2140	0.73	1567.70	1571.65
20	2140	0.69	1469.82	28856.46
			AAHU's =	1521.41

Future With P	roject		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	2140	0.74	1575.59	
1	2140	0.71	1529.82	1552.70
20	2140	0.72	1550.05	29258.73
,				
			AAHU's	1540.57

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	1540.57
B. Future Without Project AAHU's =	1521.41
Net Change (FWP - FWOP) =	19.17

#### AVERGE ANNUAL ACRES OF EMERGENT MARSH

Project:

TE-7f Lake Boudreaux Freshwater Introduction Alternative B-Area 1

Date:

November 20, 1996

Total Area:

Target	FW	OP .	F	WP	_
Year	Acres	%	Acres	%	Net Acre
0	3,755	74	3,755	74	
ì	3,702	73	3,734	73	32
2	3,649	72	3,713	73	63
3	3,59 <b>8</b>	71	3,692	73	94
4	3,547	70	3,671	72	124
5	3,497	69	3,650	72	153
6	3,447	68	3,629	71	1 <b>82</b>
7	3,398	67	3,609	71	210
8	3,350	66	3 <b>,588</b>	71	238
9	3,303	65	3,568	70	265
10	3,256	64	3,548	70	292
11	3,210	63	3,528	69	31 <b>8</b>
12	3,164	62	3,508	69	343
13	3,120	61	3,488	69	<b>368</b>
14	3,075	61	3,468	68	393
15	3,032	60	3,4 <b>48</b>	6 <b>8</b>	416
16	2,989	59	3,429	67	440
17	2,947	<b>58</b>	3,409	67	463
18	2,905	57	3,390	67	485
19	2,864	56	3,371	66	507
20	2,823	56	3,352	66	529
Total Years 1-20	64,875		70,790		
Average Annual	3,244		3,539	-	296

#### AVERGE ANNUAL ACRES OF EMERGENT MARSH

Project:

TE-7f Lake Boudreaux Freshwater Introduction Alternative B-Area 2

Date:

November 20, 1996

Total Area:

Target	FV	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	1 640	77	1 640		
	1,640	77 <b>7</b> 7	1,640	77	
1	1,630	76	1,635	76	5
2	1,620	76	1,630	76	10
3	1,611	75	1,625	<b>76</b>	15
4	1,601	75	1,620	76	19
5	1,591	74	1,616	75	24
6	1,582	74 ·	1,611	75	29
7	1,572	73	1,606	75	34
8	1,563	73	1,601	75	38
9	1,554	<b>73</b> .	1,596	75	43
10	1,544	72	1,591	74	. 47
11	1,535	72	1,587	74	52
12	1,526	71	1,582	74	56
13	1,517	71	1,577	74	61
14	1,507	70	1,572	73	65
15	1,498	70	1,568	73	69
16	1,489	70	1,563	73	74
17	1,481	69	1,558	73	78
1 <b>8</b> :	1,472	69	1,554	73	82
19	1,463	68	1,549	72	86
20	1,454	68	1,544	72	90
Total Years 1-20	30,810		31,786		
Average Annual	1,541		1,589		49

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL MULTIPLE AREA BENEFITS SUMMARY SHEET

Project: TE-7f Lake Boudreaux Freshwater Introduction - Alternative A

The WVA analysis for project TE-7f includes 2 areas: Area 1, consisting of intermediate marsh; Area 2, consisting of brackish marsh.

Total benefits (AAHUs) for this project are obtained by adding the benefits calculated for each area as summarized below:

Area	_ AAHUs
<u>.</u> 1	282.16
2	25.88

TOTAL BENEFITS = 308 AAHUS

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... TE-7f Lake Boudreaux Freshwater Introduction

Marsh type acres:

Alternative A-Area 1

Fresh.....

Condition: Future Without Project

Intermediate.. 4122

		TY 0		TY 1		TY 20	<del>———</del>
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	56	0.60	55	0.60	39	0.45
V2	% Aquatic	25	0.33	25	0.33	20	0.28
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 50 50	0.50	% 50 50	0.50	% 40 50 10	0.46
V4	%OW <= 1.5ft	70	0.89	70	0.89	60	0.78
V5	Salinity (ppt) . fresh intermediate	3	1.00	3	1.00	4	1.00
V6	Access Value	0.995	1.00	0.995	1.00	0.995	1.00
	<u>L</u>	HSI =	0.60	HSI =	0.60	HSI =	0.50

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... TE-7f Lake Boudreaux Freshwater Introduction

Marsh type acres:

Alternative A-Area 1

Fresh.....

Condition: Future With Project

Intermediate.. 4122

		TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	56	0.60	56	0.60	47	0.52
V2	% Aquatic	25	0.33	35	0.42	60	0.64
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 50 50	0.50	% 50 50	0.50	% 45 45 10	0.47
V4	%OW <= 1.5ft	70	0.89	70	0.89	65	0.83
∨5	Salinity (ppt) fresh intermediate	3	1.00	2	1.00	2	1.00
V6	Access Value	0.995	1.00	0.80	0.86	0.80	0.86
		HSI =	0.60	HSI =	0.62	HSI =	0.62

### **AAHU CALCULATION**

**Project:** TE-7f Lake Boudreaux Freshwater Introduction Alternative A-Area 1

Future Without Project		· [	Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	4122	0.60	2472.44	
1	4122	0.60	2455.82	2464.13
20	4122	0.50	2075.29	43045.57
			AAHU's =	2275.48

<b>Future With</b>	Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	4122	0.60	2472.44	
1	4122	0.62	2555.87	2514.16
20	4122	. 0.62	2564.00	48638.82
		•		
			-	
• •				
			AAHU's	2557.65

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	2557.65
B. Future Without Project AAHU's =	2275.48
Net Change (FWP - FWOP) =	282.16

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL **Brackish Marsh**

Project...... TE-7f Lake Boudreaux Freshwater Introduction

Alternative A-Area 2

Marsh type acres......

Condition: Future Without Project

		TY 0		TY 1		TY 20	
<u>Variable</u>	4	Value	SI	Value	SI	Value	SI
V1	% Emergent	81	0.83	80	0.82	71	0.7
V2	% Aquatic	10	0.37	10	0.37	8	0.3
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 25 50 25	0.65	% 25 50 25	0.65	% 20 50 30	0.6
V4	%OW <= 1.5ft	70	1.00	70	1.00	60	0.87
V5	Salinity (ppt)	4	1.00	4	1.00	5	1.00
V6	Access Value	0.755	0.78	0.755	0.78	0.755	0.78
	· <b>L</b>	HSI =	0.74	HSI =	0.73	HSI =	0.69

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project...... TE-7f Lake Boudreaux Freshwater Introduction

Marsh type acres.....

2762

Alternative A-Area 2

Condition: Future With Project

\/!		TY 0		· TY1		TY 20	
<u>Variable</u>		Value	SI	Value	SI	Value	SI
V1	% Emergent	81	0.83	80	0.82	75	0.78
V2	% Aquatic	10	0.37	15	0.41	30	0.51
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 25 50 25	0.65	% 25 50 25	0.65	% 20 50 30	0.62
V4	%OW <= 1.5ft	70	1.00	70	1.00	65	0.94
V5	Salinity (ppt)	4	1.00	3	1.00	3	1.00
V6	Access Value	0.755	0.78	0.585	0.63	0.585	0.63
		HSI =	0.74	HSI =	0.72	HSI =	0.72

### **AAHU CALCULATION**

Project: TE-7f Lake Boudreaux Freshwater Introduction
Alternative A-Area 2

Future Withou	d Danie of		<del></del>	
rature villiot			Total	Cummulative
<u> </u>	Acres	x HSI	HU's	HU's
0	2762	0.74	2039.15	
1	2762	0.73	2029.38	2034.26
20	2762	0.69	1896.26	
		0.00	1030.20	37293.55
	· -			
		1	AAHU's =	1966.39

Future With	Future With Project			Total	Cummulative
TY		Acres	x HSI	HU's	HU's
(	0	2762	0.74	2039.15	
1	1	2762	0.72	1991.75	2015.45
20	וכ	2762	0.72	1990.35	37829.99
	-				
			· ·		
<u> </u>	1-				
<u>.</u>					
				AAHU's	1992.27

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	1992.27
B. Future Without Project AAHU's =	1966.39
Net Change (FWP - FWOP) =	25.88

#### AVERGE ANNUAL ACRES OF EMERGENT MARSH

Project:

TE-7f Lake Boudreaux Freshwater Introduction - Alternative A-Area 1

Date:

November 20, 1996

Total Area:

Target	FV	VOP	F	FWP	
Year	Acres	%	Acres	%	Net Acres
0	2,314	56	2,314	56	
ĺ	2,273	55	•		20
2	2,233	54	2,294	56 55	20
3	2,233		2,273	55	40
4	•	53	2,253	55	60
	2,154	52	2,233	54	<b>79</b>
5	2,116	51	2,213	54	<b>97</b>
6	2,079	50	2,194	53	115
7	2,042	50	2,174	53	132
8	2,006	49	2,155	52	149
9	1,970	48	2,136	52	166
10	1,936	47	2,117	51	182
11	1,901	46	2,098	51	197
12	1,868	45	2,080	50	212
13	1,835	45	2,061	50	227
14	1,802	44	2,043	50	241
15	1,770	43	2,025	49	255
16	1,739	42	2,007	49	268
17	1,708	41	1,989	. 48	281
18	1,678	41	1,972	48	294
19	1,648	40	1,954	47	306
20	1,619	39	1,937	47	318
Total Years 1-20	38,571		42,211		
Average Annual	1,929		2,111		182

#### **AVERGE ANNUAL ACRES OF EMERGENT MARSH**

Project:

TE-7f Lake Boudreaux Freshwater Introduction Alternative A-Area 2

Date:

November 20, 1996

Total Area:

Target	FV	/OP	FWP			
Year	Acres	%	Acres	%	Net Acres	
_						
0	2,226	81	2,226	81		
1	2,213	80	2,218	80	5	
2	2,199	80	2,210	80	11	
3	2,186	<b>79</b>	2,202	80	16	
4	2,173	79	2,194	79	21	
5	2,160	<b>78</b>	2,186	79	26	
6	2,147	78	2,178	79	31	
7	2,134	77	2,171	79	36	
8	2,121	77	2,163	<b>78</b>	41	
9	2,109	76	2,155	<b>78</b>	46	
10	2,096	76	2,147	<b>78</b>	51	
11	2,083	75	2,139	<i>77</i>	56	
12	2,071	75	2,132	<i>77</i>	61	
13	2,058	75	2,124	<i>77</i>	66	
14	2,046	74	2,116	7 <b>7</b>	70	
15	2,034	74	2,109	76	75	
16	2,022	73	2,101	76	80	
17	2,010	73	2,094	76	84	
18	1,997	72	2,086	76	89	
19	1,985	72	2,079	75	93	
20	1,974	71	2,071	75	98	
Total Years 1-20	41,819		42,875			
Average Annual	2,091		2,144	<u></u>	53	

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL MULTIPLE AREA BENEFITS SUMMARY SHEET

Project: CW-6 Lafourche Dedicated Dredging - Increments 1-5

The WVA analysis for project CW-6 includes five increments each consisting of two areas, a saline area and a brackish area.

Total benefits (AAHUs) for each increment are obtained by adding the benefits calculated for each area as summarized below:

#### Increment 1 - CW-6i

Area	_AAHU's	
Saline Brackish	81.93 48.19	TOTAL BENEFITS = 130 AAHUS
Diackisii	40.19	

#### Increment 2 - CW-6ii

Area	AAHU's	
Saline Brackish	85.32 109.25	TOTAL BENEFITS = 195 AAHUS

#### Increment 3 - CW-6iii

Area	_AAHU's	
Saline Brackish	163.85 96.39	TOTAL BENEFITS = 260 AAHUs

#### Increment 4 - CW-6iv

Area	_AAHU's	
Saline Brackish	170.63 218.50	TOTAL BENEFITS = 390 AAHUs
	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

#### Increment 5 - CW-6v

Area	_AAHU's	
Saline	131.85	TOTAL BENEFITS = 301 AAHUs
Brackish	168.6 <b>8</b>	

04/01/97

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project..... CW-6 Lafourche Dedicated Dredging

Increment 1

Marsh type acres.....

352

Condition: Future Without Project

		TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
<u>V1</u>	% Emergent	45	0.51	45	0.51	41	0.47
V2	% Aquatic	0	0.30	0	0.30	o	0.30
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 60 20	0.40	% 20 60 20	0.40	% 15 60 25	0.38
V4	%OW <= 1.5ft	45	0.68	45	0.68	30	0.49
V5	Salinity (ppt)	16	1.00	16	1.00	16	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	<b>!</b>	HSI =	0.60	HSI =	0.60	HSI =	0.5

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project..... CW-6 Lafourche Dedicated Dredging

Marsh type acres.....

352

Increment 1

Condition: Future With Project

% Emergent	Value	SI	Value			
% Emercent		T-	value	SI	Value	SI
/o Ciliol Golit	45	0.51	52	0.57	99	0.99
% Aquatic	0	0.30	0	0.30	0	0.30
Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 60 20	0.40	% 10 20 50 20	0.46	100	1.00
%OW <= 1.5ft	45	0.68	45	0.68	100	0.50
Salinity (ppt)	16	1.00	16	1.00	16	1.00
Access Value	1.00	1.00	1.00	1.00	1.00	1.00 <b>0.87</b>
	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5 %OW <= 1.5ft Salinity (ppt)	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5  %OW <= 1.5ft 45  Salinity (ppt) 16	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5  %OW <= 1.5ft 45  Salinity (ppt) 16  Access Value 1.00  1.00	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5  %OW <= 1.5ft 45  Salinity (ppt)  Access Value 1.00  1.00  %  0.40 10 20 20 20 20 20 50 50 50 50 50 50 50 50 50 50 50 50 50	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5  %OW <= 1.5ft  Access Value  1.00  Class Value  1.00  Class Value  1.00  6  6  6  7  7  8  7  8  7  8  7  8  7  8  7  8  7  8  7  8  7  8  8	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5  %OW <= 1.5ft

Project..... CW-6 Lafourche Dedicated Dredging

		TY 20					
Variable	<u> </u>	Value	SI	Value	SI	Value	SI
<u> </u>	% Emergent	96	0.96				
V2	% Aquatic	0	0.30				
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 100	1.00	%		%	
V4	%OW <= 1.5ft	95	0.63				
V5	Salinity (ppt)	16	1.00				
V6	Access Value	1.00	1.00				
		HSI =	0.86	HSI =	T I	HSI ≥	

### **AAHU CALCULATION**

Project: CW-6 Lafourche Dedicated Dredging Increment 1

Future Withou	t Project		Total	Cummulative
. Y	Acres	x HSI	HU's	HU's
0	352	0.60	209.93	
1	352	0.60	209.93	209.93
20	352	0.56	197.20	3867.80
· ·				
				·
			AAHU's =	203.89

Future With P	roject		Total	Cummulative
TY (	Acres	x HSI	HU's	HU's
0	352	0.60	209.93	
1	352	0.64	223.63	216.78
8	352	0.87	304.66	1849.05
20	352	0.86	303.74	3650.41
			AAHU's	285.81

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	285.81
B. Folure Without Project AAHU's =	203.89
Net Change (FWP - FWOP) =	81.93

### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

CW-6 Lafourche Dedicated Dredging - Increment 1/Saline

Date:

December 10, 1996

Total Area:

352

Target	FV	VOP	F	WP .	
Year	Acres	%	Acres	%	Net Acres
0	160	45	160	45	
1	159	45	184	52	
2	158	45	207	59	24
3	158	45	231	6 <b>6</b>	49 72
4	157	45	251 255	72	73
5	156	44	233 278	72 79	98
6	155	44	302	86	122
7	154	44	. 326	92	147
8	153	44	. 320 349		171
9	153	43	348	99 99	196
10	152	43	347	9 <del>9</del> 9 <b>9</b>	196
11	151	43	346	9 <del>9</del> 98	195
12	150	43	345	98	195
13	149	42	345 345		195
14	149	42	343	98	195
15	148	42 42	344	98	195
16	147	<del>42</del> 42	343 342	97 97	195
17	146	42	342	97 97	195
18	146	41	341		195
19	145	41	340	9 <b>7</b>	195
20	144	41	339	96 96	194
		71	336	90	194
Total Years 1-20	3,030		6,250	·	
Average Annual	152		313		161

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project..... CW-6 Lafourche Dedicated Dredging

Marsh type acres.....

406

Increment 1

Condition: Future Without Project

		TY 0		TY 1		TY 20	
Variable Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	30	0.37	30	0.37	21	0.29
V2	% Aquatic	0	0.30	0	0.30	0	0.30
<b>V3</b>	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 40 60	0.28	% 40 60	0.28	% 30 70	0.26
V4	%OW <= 1.5ft	45	0.68	45	0.68	30	0.49
V5	Salinity (ppt)	11	0.85	11	0.85	11	0.85
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	L	HSI =	0.47	HSI =	0.47	HSI =	0.41

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project..... CW-6 Lafourche Dedicated Dredging

Marsh type acres...... 406

Increment 1

Condition: Future With Project

Variable		TY 0		TY 1		TY 9	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	30	0.37	30	0.37	32	0.39
V2	% Aquatic	0	0.30	0	0.30	0	0.30
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 40 60	0.28	% 40 60	0.28	% 8 32 60	0.33
V4	%OW <= 1.5ft	45	0.68	45	0.68	40	0.61
V5	Salinity (ppt)	11	0.85	11	0.85	11	0.85
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	<u></u>	HSI =	0.47	HSI =	0.47	HSI =	0.48

Project..... CW-6 Lafourche Dedicated Dredging FWP\_\_\_\_

		TY 20					
<u>Variable</u>		Value	SI	Value	SI	Value	SI
V1	% Emergent	94	0.95				
V2	% Aquatic	0	0.30				
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	100	1.00	%		%	
V4	%OW <= 1.5ft	95	0.70				
V5	Salinity (ppt)	11	0.85				
V6	Access Value	1.00	1.00				
		HSI =	0.78	HSI =		HSI =	

#### **AAHU CALCULATION**

Project:	CW-6 Lafourche Dedicated Dredging
	Increment 1

uture Withou	t Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	406	0.47	191.08	
1	406	0.47	191.08	191.08
20	406	0.41	165.85	3390.82
i				
<u></u>				
			AAHU's =	179.09

Future With Project			Total	Cummulative	
TY	Acres	x HSI	HU's	HU's	
0	406	0.47	191.08		
1	406	0.47	191.08	191.08	
9	406	0.48	194.54	1542.50	
20	406	0.78	316.76	2812.17	
			AAHU's	227.29	

NET CHANGE IN AAHU'S DUE TO PROJECT	<b></b>
A. Future With Project AAHU's =	227.29
B. Future Without Project AAHU's =	179.09
Net Change (FWP - FWOP) =	48.19

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

CW-6 Lafourche Dedicated Dredging - Increment 1/Brackish

Date:

December 10, 1996

Total Area:

406

Target	FV	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	123	30	123	30	
1	121	30	121	<b>30</b>	0
2	119	29	119	29	0
3	117	29	117	29	0
4	115	28	115	28	0
<sup>:</sup> 5	113	<b>28</b>	113	28	0
6	111	<b>27</b>	111	27	0
7	109	27	109	27	0
8	107	26	107	26	0
9	105	26	129	32	24
10	103	25	151	37	48
11	101	25	173	43	72
12	100	25	195	48	95
13	98	24	217	53	119
14	96	24	238	59	142
15	94	23	260	64	165
16	93	23	281	69	189
17	91	22	303	75	212
18	90	22	324	80	235
19	88	22	352	87	264
20	86	21	383	94	297
Total Years 1-20	2,055		3,917		
Average Annual	103		196		93

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project...... CW-6 Lafourche Dedicated Dredging

Marsh type acres......

352

increment 2

Condition: Future Without Project

	7 (	TYO		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	45	0.51	45	0.51	41	0.47
V2	% Aquatic	0	0.30	0	0.30	0	0.30
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 60 20	0.40	% 20 60 20	0.40	% 15 60 25	0.38
V4	%OW <= 1.5R	45	0.68	45	0.68	30	0.49
V <b>5</b>	Salinity (ppt)	16	1.00	16	1.00	16	1.00
· <b>v</b> 8	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		H <b>SI =</b>	0.60	HSI =	0.60	HSI =	0.5

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project..... CW-6 Lafourche Dedicated Dredging

Marsh type acres......

352

Increment 2

		TYO		TY 1		TY 5	
Variable		Value	ŞI	Value	SI	Value	SI
V1	% Emergent	45	0.51	56	0.60	96	0.96
V2	% Aquate	0	0.30	0	0.30	0	0.30
<b>V3</b>	Interspersion Class 1: Class 2: Class 3: Class 4: Class 5:	% 20 60 20	0.40	% 16 17 50 17	0.50	% 100	1.00
V4	%OW <= 1.5R	45	0.68	. 45	0.68	100	0.50
V <b>5</b>	Salinity (ppt)	16	1.00	16	1.00	16	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	_	HSI =	0.60	HSI =	0.66	HSI ≥	0.85

Project......CW-6 Lafourche Dedicated Dredging FWP

		TY 20					
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	93	0.94				
V2	% Aquatic	0	0.30				
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	100	1.00	%	··	%	
V4	%OW <= 1.5ft	95	0.63				
V5	Salinity (ppt)	16	1.00				
V6	Access Value	1.00	1.00				
		HSI =	0.85	HSI =		HSI =	

### **AAHU CALCULATION**

Project: CW-6 Lafourche Dedicated Dredging Increment 2

Future Without Project		oject		Cummulative	
TY	Acres	x HSI	Total HU's	HU's	
0	352	0.60	209.93		
1	352	0.60	209.93	209.93	
20	352	0.56	197.20	3867.80	
	7				
			AAHU's =	203.89	

Future With P	rolect	Ī	Total	(A
TY	Acres	x HSI	HU's	Cummulative HU's
0	352	0.60	209.93	1103
1	352	0.66	231.29	220.61
5	352	0.85	300.48	1063.53
20	352	0.85	299.51	4499.91
			330.0.	1700.01
		·		
			AAHU's	289.20

NET CHANGE IN AAHU'S DUE TO PROJECT

A. Future With Project AAHU's = 289.20

B. Future Without Project AAHU's = 203.89

Net Change (FWP - FWOP) = 85.32

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

CW-6 Lafourche Dedicated Dredging - Increment 2/Saline

Date:

December 10, 1996

Total Area:

352

Target	FV	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
		,			
0	160	45	160	45	
1	159	45	196	56	37
2	158	45	232	66	73
3	158	45	268	76	110
4	157	45	303	86	147
5	156	44	339	96	18 <b>3</b>
6	155	44	338	9 <b>6</b>	183
7	154	44	337	.96	183
8	153	44	337	96	183
9	153	43	336	95	183
10	152	43	335	95	183
11	151	43	334	95	183
12	150	· 43	333	95	183
13	1 <b>49</b>	42	332	94	183
14	149	42	331	94	183
15	148	: 42	330	94	183
16	147	42	330	94	182
17	146	42	329	93	182
18	146	41	328	93	182
19	145	41	327	93	182
20	144	41	326	93	182
Total Years 1-20	3,030	:	6,321		:
Average Annual	152		316	•	165

### WETLAND VALUE ASSESSMENT COMMUNITY MCDEL Brackish Marsh

Project..... CW-6 Lafourche Dedicated Dredging

Marsh type acres......

807

Increment 2

Condition: Future Without Project

	7 . [	TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	33	0.40	32	0.39	23	0.31
V2	% Aquatic	0	0.30	0	0.30	0	0.30
<b>V3</b>	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 40 60	0.28	40 60	0.28	% 30 70	0.26
V4	%OW <= 1.5ft	45	0.68	45	0.68	30	0.49
V5	Salinity (ppt)	11	0.85	11	0.85	11	0.85
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.49	HSI =	0.48	HSI =	0.42

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project..... CW-6 Lafourche Dedicated Dredging

Marsh type acres.....

807

Increment 2

	TY 0	TY 0		TY 1		TY 6	
<u> </u>	Value	SI	Value	SI	Value	SI	
% Emergent	33	0.40	32	0.39	34	0.41	
% Aquatic	0	0.30	o	0.30	0	0.30	
Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 40 60	0.28	% 40 60	0.28	% 7 33 60	0.32	
%OW <= 1.5ft	. 45	0.68	45	0.68	40	0.61	
Salinity (ppt)	11	0.85	11	0.85	11	0.85	
Access Value	1.00	1.00	1.00	1.00	1.00	1.00 <b>0.4</b> 9	
	% Aquatic  Interspersion Class 1 Class 2 Class 3 Class 4 Class 5  %OW <= 1.5ft Salinity (ppt)	Value         % Emergent       33         % Aquatic       0         Interspersion       %         Class 1       Class 2         Class 2       Class 3       40         Class 4       60         Class 5       45         Salinity (ppt)       11	Value         SI           % Emergent         33         0.40           % Aquatic         0         0.30           Interspersion         %         0.28           Class 1         0.28         0.28           Class 2         0.28         0.28           Class 3         40         0.28           Class 4         60         0.68           Class 5         45         0.68           Salinity (ppt)         11         0.85           Access Value         1.00         1.00	Value         SI         Value           % Emergent         33         0.40         32           % Aquatic         0         0.30         0           Interspersion         %         0.28         0.28           Class 1         0.28         0.28         0.28           Class 2         0.28         0.28         0.28           Class 3         40         40         0.60           Class 4         60         60         0.68           Class 5         45         0.68         45           Salinity (ppt)         11         0.85         11           Access Value         1.00         1.00         1.00	Value         SI         Value         SI           % Emergent         33         0.40         32         0.39           % Aquatic         0         0.30         0         0.30           Interspersion         %         0.28         0.28           Class 1         0.28         0.28         0.28           Class 2         0.28         40         40           Class 3         40         40         60           Class 4         60         60         60           Class 5         45         0.68         45         0.68           Salinity (ppt)         11         0.85         11         0.85           Access Value         1.00         1.00         1.00         1.00	Value         SI         Value         SI         Value           % Emergent         33         0.40         32         0.39         34           % Aquatic         0         0.30         0         0.30         0           Interspersion Class 1         %         %         0.28         7           Class 2 Class 3         40         40         33         33           Class 4 Class 4 Class 5         60         60         60         60           %OW <= 1.5ft	

Project..... CW-6 Lafourche Dedicated Dredging FWP

		TY 20					
√ariable		Value	SI	Value	SI	Value	SI
V1	% Emergent	92	0.93				
· V2	% Aquatic	o	0.30				
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 100	1.00	%		%	
V4	%OW <= 1.5ft	95	0.70				
V5	Salinity (ppt)	11	0.85				
V6	Access Value	1.00	1.00				
	<u></u>	HSI =	0.77	HSI =		HSI =	

AAHU CALCULATION

Project: CW-6 Lafourche Dedicated Dredging Increment 2

Future Withou	t Project	:	Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	807	0.49	391.54	
. 1	807	0.48	387.67	389.60
20	807	0.42	338.30	6896.66
	<u> </u>		AAHU's =	364.31

Future With	Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	807	0.49	391.54	
1	807	0.48	387.67	389.60
6	807	0.49	394.04	1954.27
20	807	0.77	624.15	7127.36
			-	
			AAHU's	473.56

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	473.56
B. Future Without Project AAHU's =	364.31
Net Change (FWP - FWOP) =	109.25

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

CW-6 Lafourche Dedicated Dredging - Increment 2/Brackish

Date:

December 10, 1996

Total Area:

807

Target	F\	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	265	33	265	22	
1	260	•	265	33	
2		32	260	32	0
3	256 251	32	256	32	0
	251	31	251	31	0
4	247	31	247	31	0
. 5	243	30	243	<b>30</b>	(0)
6	238	30	274	34	36
7	234	29	306	38	72
8	230	29	338	42	108
9	226	28	369	46	143
10	222	28	401	50	178
11	218	27	432	54	214
12	215	27	463	57	249
13	211	26	494	61	283
14	207	26	525	65	318
15	204	25	556	69	353
16	200	25	587	73	387
17	196	24	618	7 <b>7</b>	421
18	193	24	648	80	455
19	190	24	692	86	
20	186	23			502
:	100	43	739	92	553
Total Years 1-20	4,428	•	8,699		
Average Annual	221		435		214

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project..... CW-6 Lafourche Dedicated Dredging

Increment 3

Marsh type acres......

704

Condition: Future Without Project

		TY 0				TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	45	0.51	45	0.51	41	0.47
V2	% Aquatic	0	0.30	0	0.30	0	0.30
<b>V3</b>	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 60 20	0.40	% 20 60 20	0.40	% 15 60 25	0.38
V4	%OW <= 1.5ft	45	0.68	45	0.68	30	0.49
V5	Salinity (ppt)	16	1.00	16	1.00	16	1.00
V8	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	<u>L</u>	HSI =	0.60	HSI =	0.60	HSI =	0.56

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project..... CW-6 Lafourche Dedicated Dredging

Marsh type acres......

704

Increment 3

		TY 0		TY 1		TY8	
Variable		Value	SI	Value	SI	Value	SI
V1 -	% Emergent	45	0.51	52	0.57	99	0.99
V2	% Aquatic	0	0.30	0	0.30	0	0.30
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 60 20	0.40	% 10 20 50 20	0.46	100	1.00
V4	%OW <= 1.5ft	45	0.68	45	0.68	100	0.50
V5	Salinity (ppt)	16	1.00	16	1.00	16	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.60	HSI =	0.64	HSI ≥	0.87

Project..... CW-6 Lafourche Dedicated Dredging

		TY 20					
<u>Variabie</u>	<u> </u>	Value	SI	Value	SI	Value	SI
V1	% Emergent	96	0.96				
V2	% Aquatic	0	0.30				· · · · · · · · · · · · · · · · · · ·
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 100	1.00	%		%	
V4	%OW <= 1.5ft	95	0.63				
V5	Salinity (ppt)	16	1.00				
V6	Access Value	1.00	1.00				<del></del>
		HSI =	0.86	HSI =		HSI =	

#### **AAHU CALCULATION**

Project: CW-6 Lafourche Dedicated Dredging Increment 3

Future Withou	rt Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	704	0.60	419.87	
1	704	0.60	419.87	419.87
20	704	0.56	394.41	7735.60
			AAHU's =	407.77

F 4 1884 B		6		
Future With P	Future With Project		Total-	Cummulative
TY	Acres	x HSI	HU's	HU's
0	704	0.60	419.87	
1	704	0.64	447.27	433.57
8	704	0.87	609.33	3698.09
20	704	0.86	607.48	7300.82
				<del></del>
			AAHU's	571.62

NET CHANGE IN AAHU'S DUE TO PROJECT	•
A. Future With Project AAHU's =	571.62
B. Future Without Project AAHU's =	407.77
Net Change (FWP - FWOP) =	163.85

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

CW-6 Lafourche Dedicated Dredging - Increment 3/Saline

Date:

December 10, 1996

**Total Area:** 

704

Target	FV	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
			·		
0	<b>320</b>	45	320	45	
1	318	45	367	52	49
2	317	45	415	<i>5</i> 9	98
3	315	45	462	66	147
4	313	. 45	509	72	196
5	312	44	557	79	245
6	310	44	604	86	294.
7	308	44	651	92	343
8	307	44	698	99	391
9	305	43	696	99	·391
10	304	43	695	99	391
. 11	<b>302</b>	43	693	98	391
12	<b>300</b>	43	691	98	390
13	299	42	689	98	390
14	<b>297</b> .	42	687	98	390
<b>15</b> :	296	42	<b>686</b>	97	390
16	294	42	684	97	390
17	293	42	682	97	389
18	291	41	680	97	389
19	290	41	678	96	389
20	288	41	677	96	388
Total Years 1-20	£6,060		12,501	÷	·
Average Annual	303		625		322

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project..... CW-6 Lafourche Dedicated Dredging Increment 3

Marsh type acres.....

812

Condition: Future Without Project

		TY 0		TY 1		TY 20	
Variable	4	Value	SI	Value	SI	Value	SI
V1	% Emergent	30	0.37	30	0.37	21	0.29
V2	% Aquatic	0	0.30	0	0.30	0	0.30
V3	Interspersion Class 1 Class 2	%	0.28	%	0.28	%	0.26
	Class 3 Class 4 Class 5	40 60		40 60		30 70	
V4	%OW <= 1.5ft	45	0.68	45	0.68	30	0.49
V5	Salinity (ppt)	11	0.85	11	0.85	11	0.85
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	Ļ	HSI =	0.47	HSI ≖	0.47	HSI =	0.41

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project...... CW-6 Lafourche Dedicated Dredging

Marsh type acres.....

812

Increment 3

		TY 0		TY 1		TY 9	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	30	0.37	30	0.37	32	0.39
V2	% Aquatic	0	0.30	0	0.30	0	0.30
<b>V3</b>	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 40 60	0.28	% 40 60	0.28	% 8 32 60	0.33
V4	%OW <= 1.5ft	45	0.68	45	0.68	40	0.61
V5	Salinity (ppt)	11	0.85	11	0.85	11	0.85
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.47	HSI =	0.47	HSI =	0.48

Project..... CW-6 Lafourche Dedicated Dredging

		TY 20					
Variable_	<u> </u>	Value	SI	Value	SI	Value	SI
V1_	% Emergent	94	0.95				<u> </u>
V2	% Aquatic	0	0.30				
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	100	1.00	. %		%	
V4	%OW <= 1.5ft	95	0.70				
V5	Salinity (ppt)	11	0.85				
V6	Access Value	1.00	1.00			·	
	<u>L</u>	HSI =	0.78	HSI =	1	HSI =	

AAHU CALCULATION

Project: CW-6 Lafourche Dedicated Dredging Increment 3

Future With	out Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	812	0.47	382.16	
1	812	0.47	382.16	382.16
20	812	0.41	331.69	6781.63
٠.				
			AAHU's =	358.19

Future With Project			Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	812	0.47	382.16	
1	812	0.47	382.16	382.16
9	812	0.48	389.09	3085.00
20	812	0.78	633.52	5624.34
			AAHU's	454.58

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	454.58
B. Future Without Project AAHU's =	358.19
Net Change (FWP - FWOP) =	96.39

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

CW-6 Lafourche Dedicated Dredging - Increment 3/Brackish

Date:

December 10, 1996

Total Area:

812

Target	FV	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	246	30	246	30	**
1	242	30	242	30	0
2	237	29	237	<b>29</b>	0
3	233	29	233	29	0
4	229	28	229	28	0
5	225	28	225	28	0
6	221	27	221	27	0
7	217	<b>27</b> ·	217	27	0
8	214	26	214	26	Ō
9	210	26	258	32	48
10 /	206	25	302	37	96
11	203	25	346	43	143
12	199	25	390	48	191
13	196	24	433	53	238
14	192	24	477	59	284
15	189	23	520	64	331
16	186	23	563	69	377
17	182	22	606	75	423
18	179	22	648	80	469
19	1 <b>76</b>	22	704	87	528
20	173	21	767	94	594
Total Years 1-20	4,111		7,834	4	
Average Annual	206		392		186

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project......CW-6 Lafourche Dedicated Dredging

increment 4

Marsh type acres.....

704

Condition: Future Without Project

		TY 0		TY1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	45	0.51	45	0.51	41	0.4
V2	% Aquatic	0	0.30	0	0.30	0	0.30
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 60 20	0.40	% 20 60 20	0.40	% 15 60 25	0.34
V4	%OW <= 1.5ft	45	0.68	45	0.68	30	0.49
V5	Salinity (ppt)	16	1.00	16	1.00	18	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.60	HSI =	0.60	HSI =	0.50

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project...... CW-6 Lafourche Dedicated Dredging

Marsh type acres......

704

increment 4

		TY 0		TY 1	1	TY 5	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	45	0.51	56	0.60	96	0.96
V2	% Aquatic	0	0.30	0	0.30	0	0.30
<b>V3</b>	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 60 20	0.40	% 16 17 50 17	0.50	100	1.00
V4	%OW <= 1.5ft	45	0.68	45	0.68	100	0.50
∨5	Salinity (ppt)	16	1.00	16	1.00	16	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.60	HSI =	0.66	HSI =	0.85

Project...... CW-6 Lafourche Dedicated Dredging

•	•	_	a.	١
F	M	J	P	

***	7	TY 20		<del> </del>		1	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	93	0.94				- <u></u> '-
V2	% Aquatic	0	0.30				
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	100	1.00	%		%	
V4	%OW <= 1.5ft	95	0.63				
V5	Salinity (ppt)	16	1.00				
V6	Access Value	1.00	1.00				<del></del>
		HSI =	0.85	HSI =		HSI =	

AAHU CALCULATION

Project: CW-6 Lafourche Dedicated Dredging

increment 4

Future Without Project		hout Project		Cummulative	
TY	Acres	x HSI	Total HU's	HU's	
0	. 704	0.60	419.87		
1	704	0.60	419.87	419.87	
20	704	0.56	394.41	7735.60	
<b></b>					
<b></b>					
<del> </del>					
<b></b>					
المنبسب					
•		#1.	AAHI Pe =	407 77	

		_		
Future With Project		8	Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	704	0.60	419.87	
1	704	0.66	462.58	441.22
5	704	0.85	600.96	2127.07
20	704	0.85	599.02	8999.82
<del></del>				
		-		
			AAHII's	578 44

NET CHANGE IN AAHU'S DUE TO PROJECT	<del></del>
A. Future With Project AAHU's =	578.41
B. Future Without Project AAHU's =	407.77
Net Change (FWP - FWOP) =	170.63

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

CW-6 Lafourche Dedicated Dredging - Increment 4/Saline

Date:

December 10, 1996

Total Area:

704

Target	FV	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
			•	-	
. 0	320	45	320	45	
1	318	45	392	56	73
2	317	45	463	6 <b>6</b>	147
3	315	45	535	76	220
4	313	45	607	8 <b>6</b>	293
5	312	44	679	97	368
6	310	44	678	96	368
7	308	44	676	96	367
8	307	44	674	96	367
9	305	43	672	96	367
10	304	43	671	95	367
11	302	43	669	95	367
12	300	43	667	95	367
13	299	42	665	95	366
14	297	42	664	94	366
15	296	42	662	94	366
16	294	42	660	94	36 <b>6</b>
17	293	42	658	94	366
18	291	41	657	93	365
19	290	41	655	93	365
20	288	41	653	93	365
Total Years 1-20	6,060		12,657	·	
Average Annual	303		633	· •	330

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL **Brackish Marsh**

Project..... CW-6 Lafourche Dedicated Dredging

Marsh type acres...... 1,614

increment 4

Condition: Future Without Project

		TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	33	0.40	32	0.39	23	0.31
V2	% Aquatic		0.30	0	0.30	0	0.30
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 40 60	0.28	% 40 60	0.28	% 30 70	0.26
V4	%OW <= 1.5ft	45	0.68	45	0.68	30	0.49
V5	Salinity (ppt)	11	0.85	11	0.85	11	0.85
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	ـــــــ	HSI =	0.49	HSI =	0.48	HSI =	0.42

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL **Brackish Marsh**

Project..... CW-6 Lafourche Dedicated Dredging

Marsh type acres..... 1614

Increment 4

		TY 0		TY 1		TY 6	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	33	0.40	32	0.39	34	0.41
V2	% Aquatic	0	0.30	0	0.30	0	0.30
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 40 60	0.28	% 40 60	0.28	% 7 33 60	0.32
V4	%OW <= 1.5ft	45	0.68	45	0.68	40	0.61
V5	Salinity (ppt)	11	0.85	11	0.85	11	0.85
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.49	HSI =	0.48	HSI .=	0.49

Project..... CW-6 Lafourche Dedicated Dredging FWP\_\_\_\_\_

		TY 20					
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	92	0.93				
V2	% Aquatic	0	0.30				·
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 100	1.00	%		%	
V4	%OW <= 1.5ft	95	0.70				
V5	Salinity (ppt)	11	0.85				
V6	Access Value	1.00	1.00				
		HSI =	0.77	HSI =		HSI =	

#### **AAHU CALCULATION**

Project: CW-6 Lafourche Dedicated Dredging Increment 4

Future Withou	Future Without Project		Without Project		Total	Cummulative	
TY	Acres	x HSI	HU's	HU's			
0	1614	0.49	783.08				
1	1614	0.48	775.33	779.20			
20	1614	0.42	676.60	13793.31			
2							
· ·							
<u> </u>							
			AAHU's =	728.63			

Future With Project			Total	Cummulative	
TY	Acres	x HSI	HU's	HU's	
0	1614	0.49	783.08		
1	1614	0.48	775.33	779.20	
6	1614	0.49	788.09	3908.54	
20	1614	0.77	1248.30	14254.71	
			AAHU's	947.12	

NET CHANGE IN AAHU'S DUE TO PROJECT	7
A. Future With Project AAHU's =	947.12
B. Future Without Project AAHU's =	728.63
Net Change (FWP - FWOP) =	218.50

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

CW-6 Lafourche Dedicated Dredging - Increment 4/Brackish

Date:

December 10, 1996

Total Area:

1,614

Target	F	WOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	530	33	530	33	
1	521	32	521	32	0
2	512	32	512	32	
3	503	31	503	31	0 0
4	494	31	494	31	
5	485	30	485	30	0
6	477	30	549	34	(0)
7	469	29	612		72
8	460	29	675	38	144
9	452	28	738	42	215
10	444	28	801	46 50	286
11	437	27	864	50	357
12	429	27		54 53	427
13	422	26	926	57	497
14	414		988	61	567
15	407	26 25	1,050	65	636
16	400	25 25	1,112	69	705
17		25	1,174	73	774
	393	24	1,235	77	842
18	386	24	1,296	80	910
19	379	24	1,383	86	1,004
20	373	23	1,486	92	1,114
Total Years 1-20	8,857		17,407		
Average Annual	443		870		428

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project..... CW-6 Lafourche Dedicated Dredging

Increment 5

Marsh type acres.....

544

Condition: Future Without Project

	_	TY 0 TY 1				TY 20	
Variable	<u> </u>	Value	SI	Value	SI	Value	SI
V1_	% Emergent	45	0.51	45	0.51	41	0.47
V2	% Aquatic	0	0.30	0	0.30	0	0.30
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 60 20	0.40	% 20 60 20	0.40	% 15 60 25	0.38
V4	%OW <= 1.5ft	45	0.68	45	0.68	30	0.49
V5	Salinity (ppt)	16	1.00	16	1.00	16	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.60	HSI ≥	0.60	HSI =	0.50

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project..... CW-6 Lafourche Dedicated Dredging

Marsh type acres.....

544

Increment 5

		TY 0		TY 1		TY 5	
<u>Variable</u>	·	Value	SI	Value	SI	Value	SI
V1	% Emergent	45	0.51	56	0.60	96	0.96
V2	% Aquatic	0	0.30	o	0.30	0	0.30
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 60 20	0.40	% 16 17 50 17	0.50	% 10 <b>0</b>	1.00
V4	%OW <= 1.5ft	45	0.68	45	0.68	100	0.50
V5	Salinity (ppt)	16	1.00	16	1.00	16	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.60	HSI =	0.66	HSI =	0.85

Project..... CW-6 Lafourche Dedicated Dredging

	1 /	TY 20					
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	93	0.94				
V2	% Aquatic	0	0.30		į		
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 100	1.00	%		%	
V4	%OW <= 1.5ft	95	0.63				
V5.	Salinity (ppt)	16	1.00				
V6	Access Value	1.00	1.00				
		HSI =	0.85	HSI =		HSI =	

AAHU CALCULATION

Project: CW-6 Lafourche Dedicated Dredging increment 5

Future Withou	it Project	j	Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	544	0.60	324.44	
1	544	0.60	324.44	324.44
20	544	0.56	304.77	5977.51
			AAHU's =	315.10

Future With Pr	roject		Total	Cummulative	
TY	Acres	x HSI	HU's	HU's	
0	544	0.60	324.44		
1	544	0.66	357.45	340.95	
5	544	0.85	464.38	1643.64	
20	544	0.85	462.88	6954.40	
			AAHU's	446.95	

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	446.95
B. Future Without Project AAHU's =	315.10
Net Change (FWP - FWOP) =	131.85

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

CW-6 Lafourche Dedicated Dredging - Increment 5/Saline

Date:

December 10, 1996

Total Area:

544

Target	F	WOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	247	45	247	45	
1	246	45	302	56	57
2	244	45	358	<b>66</b>	113
3	243	45	413	<b>76</b>	170
4	242	· 44	468	86	227
5	241	44	524	96	283
6	239	44	522	<b>96</b>	283
7	238	44	521	96	283
8	237	44	520	96	283
9	236	43	518	95	283
10	234	43	517	95	283
11	233	43	516	95	282
12	232	43	514	95	282
13	231	42	513	94	282
2 14	230	42	512	94	282
15	228	42	510	94	282
16	227	42	509	94	282
17	226	42	508	93	282
18	225	41	506	93	281
19	224	41	505	93	281
20	222	41	513	94	290
Total Years 1-20	4,678		9,768		·
Average Annual	234		488		255

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project..... CW-6 Lafourche Dedicated Dredging

increment 5

Marsh type acres.....

1,246

Condition: Future Without Project

		TY 0	Y 0 TY 1			TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	33	0.40	32	0.39	23	0.31
V2	% Aquatic	0	0.30	0	0.30	o	0.30
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 40 60	0.28	% 40 60	0.28	% 30 70	0.26
V4	%OW <= 1.5ft	45	0.68	45	0.68	30	0.49
V5	Salinity (ppt)	11	0.85	11	0.85	11	0.85
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	Ļ	HSI =	0.49	HSI =	0.48	HSI =	0.42

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project..... CW-6 Lafourche Dedicated Dredging

Marsh type acres...... 1246

Increment 5

	L	TY 0		TY 1		TY 6	
<u>Variabie</u>		Value	SI	Value	SI	Value	SI
V1	% Emergent	33	0.40	32	0.39	34	0.41
V2	% Aquatic	0	0.30	0	0.30	0	0.30
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 40 60	0.28	% 40 60	0.28	% 7 33 60	0.32
V4	%OW <= 1.5ft	45	0.68	45	0.68	40	0.61
V5 ·	Salinity (ppt)	11	0.85	11	0.85	11	0.85
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.49	HSI =	0.48	HSI =	0.49

Project..... CW-6 Lafourche Dedicated Dredging FWP \_\_\_\_\_

		TY 20					
Variable		Value	SI	Value	Si	- Value	SI
V1	% Emergent	92	0.93				
V2	% Aquatic	0	0.30				
V3 	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 100	1.00	%		%	
V4	%OW <= 1.5R	95	0.70				
V5	Salinity (ppt)	11	0.85				
V6	Access Value	1.00	1.00				
	ل	HSI =	0.77	HSI =		HSI =	

Project: CW-6 Lafourche Dedicated Dredging Increment 5

uture Withou	iture Without Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	1246	0.49	604.53	
1	1246	0.48	598.55	601.54
20	1246	0.42	522.33	10648.37
í				
			44HU'S =	562.50

Future With F	rolect		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	1246	0.49	604.53	
1	1246	0.48	598.55	601.54
6	1246	0.49	608.40	3017.37
20	1246	0.77	963.68	11004.57
ļ				
ļ <u>L</u>				
.*			AAHU's	731.17

NET CHANGE IN AAHU'S DUE TO PROJECT	7
A. Future With Project AAHU's =	731.17
B. Future Without Project AAHU's =	562.50
Net Change (FWP - FWOP) =	168.68

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

CW-6 Lafourche Dedicated Dredging - Increment 5/Brackish

Date:

December 10, 1996

Total Area:

1,246

Target	F	WOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	400	2.2			
0	409	33	409	33	
1	402	32	402	32	0
2	395	32	395	32	0
3	388	31	388	31	0
4	381	31	381	31	0
5	375	30	375	30	0
6	368	30	424	34	56
7	362	29	473	38	111
8	355	29	521	42	166
<b>9</b> * <sub>2</sub>	349	28	570	46	221
<b>10</b> /	343	28	619	50	276
11	337	27	667	54	330
12	331	27	715	57	384
13	325	26	763	61	438
14	320	26	811	65	491
15	314	25	859	69	545
16	309 ·	25	906	73	598
17	303	24	954	77	650
18	298	24	1,001	80	703
19	293	23	1,068	86	775
20	288	23	1,141	92	854
Total Years 1-20	6,835		13,431		•
Average Annual	342		672		330

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project..... PBA-12b Barataria Bay Waterway Bank Prot.

Marsh type acres......

2790

East Bank

Condition: Future Without Project

	7 [	TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	53	0.58	53	0.58	40	0.46
V2	% Aquatic	35	0.55	35	0.55	20	0.44
<b>V3</b>	Interspersion Class 1 Class 2 Class 3	% 60	0.32	% 60	0.32	% 50	0.30
	Class 4 Class 5	40		40		50	
V4	%OW < <b>=</b> 1.5ft	50	0.74	49	0.73	30	0.49
V5	Salinity (ppt)	5	1.00	5	1.00	7	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	L	HSI =	0.65	HSI =	0.65	HSI =	0.55

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project..... PBA-12b Barataria Bay Waterway Bank Prot.

Marsh type acres......

2790

East Bank

	TYO			TY 1		TY 20	
Variable	<u> </u>	Value	SI	Value	SI	Value	SI
V1	% Emergent	53	0.58	53	0.58	48	0.53
V2	% Aquatic	35	0.55	40	0.58	45	0.62
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 60 40	0.32	% 60 40	0.32	% 55 45	0.31
V4	%OW <= 1.5ft	50	0.74	50	0.74	50	0.74
∨5	Salinity (ppt)	5	1.00	4	1.00	4	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.65	HSI =	0.65	HSI =	0.64

### **AAHU CALCULATION**

PBA-12b Barataria Bay Waterway Bank Prot. Project:

East Bank

Future Without Project		ture Without Project		Cummulative	
TY	Acres	x HSI	HU's	HU's	
0	2790	0.65	1808.15		
1	2790	0.65	1805.49	1806.82	
20	2790	0.55	1524.66	31636.44	
			AAHU's =	1672 16	

Future With Project			Total	Cummulative	
TY	Acres	x HSI	HU's	HU's	
0	2790	0.65	1808.15		
1	2790	0.65	1825.46	1816.81	
20	2790	0.64	1772.57	34181.30	
	1				
			AAHU's	1799.91	

NET CHANGE IN AAHU'S DUE TO PROJECT	7
A. Future With Project AAHU's =	1799.91
B. Future Without Project AAHU's =	1672.16
Net Change (FWP - FWOP) =	127.74

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PBA-12b Barataria Bay Waterway Bank Protection (East)

Date:

(WVA conducted during PPL5 candidate evaluations)

Total Area:

2,790

Target	FV	VOP	F	WP		
Year	Acres	%	Acres	%	Net Acres	
	÷		•			
0	1,483	53	1,483	53	••	
1	1,465	53	1,476	53	11	
2	1,447	52	1,469	53	22	
3	1,429	51	1,461	52	33	
4	1,411	51	1,454	52	44	
5	1,393	50	1,447	<b>52</b>	54	
6	1,374	. 49	1,440	52	65	
7	1,356	49	1,432	51	76	
8	1,338	48	1,425	51	, 87	
9	1,320	47	1,418	51	98	
10	1,302	47	1,411	51	109	
11	1,284	46	1,403	50	119	
12	1,266	45	1,396	50	130	
13	1,248	45	1,389	50	141	
14	1,230	44	1,382	50	152	
<b>15</b> **	1,212	43	1,374	49	163	
16	1,193	43	1,367	49	174	
17	1,175	42	1,360	49	184	
18	1,157	41	1,353	48	195	
19	1,139	41	1,345	48	206	
20	1,121	40	1,338	48	217	
Total Years 1-20	25,860		28,140			
Average Annual	1,293		1,407		114	

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL MULTIPLE AREA BENEFITS SUMMARY SHEET

Project: CW-1 Dedicated Dredging in the Mississippi River

The WVA analysis for project CW-1 includes 3 areas each consisting of fresh marsh.

Total benefits (AAHUs) for this project are obtained by adding the benefits calculated for each area as summarized below:

Area	AAHUs
1	1,064.23
2	365.2 <b>6</b>
3	377.59

TOTAL BENEFITS = 1,807 AAHUs

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... CW-1 Dedicated Dredging in the Miss. River

Marsh type acres:

increment 1

Fresh.....

Intermediate..

1900

Condition: Future Without Project

		TY 0		TY 1		TY 3	
Variable	<u> </u>	Value	SI	Value	SI	Value	SI
V1	% Emergent	2	0.12	2	0.12	1	0.11
V2	% Aquatic	100	1.00	100	1.00	100	1.00
<b>V3</b>	Interspersion Class 1 Class 2 Class 3	100	0.20	%	0.20	%	0.20
	Class 4 Class 5	100		100		100	
V4	%OW <= 1.5ft	0	0.10	0	0.10	0	0.10
V5	Salinity (ppt) fresh intermediate	o	1.00	0	1.00	o	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.30	HSI =	0.30	HSI =	0.29

Project...... CW-1 Dedicated Dredging in the Miss. River

	1	TY 10		TY 20			
Variable	<u> </u>	Value	SI	Value	SI	Value	SI
V1	% Emergent	1	0.11	1	0.11		,
V2	% Aquatic	75	0.78	50	0.55		
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	100	0.20	100	0.20	%	
V4	%OW <= 1.5ft	0	0.10	0	0.10		
V5	Salinity (ppt) fresh intermediate	o	1.00	0	1.00	-	
V6	Access Value	1.00	1.00	1.00	1.00		
		HSI =	0.27	HSI =	0.26	HSI =	

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... CW-1 Dedicated Dredging in the Miss. River

Marsh type acres:

Increment 1

Fresh.....

Condition: Future With Project

Intermediate..

1900

		TY 0		TY 1		TY 3	<del></del>
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	2	0.12	20	0.28	90	0.91
V2	% Aquatic	100	1.00	0	0.10	100	1.00
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	100	0.20	% 100	1.00	100	1.00
V4	%OW <= 1.5ft	0	0.10	100	0.60	100	0.60
V5	Salinity (ppt) fresh intermediate	o	1.00	0	1.00	o	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.30	HSI =	0.38	HSI =	0.92

Project...... CW-1 Dedicated Dredging in the Miss. River

		TY 10		TY 20			
Variable	<u> </u>	Value	SI	Value	SI	Value	SI
V1	% Emergent	83 -	0.85	65	0.69		
V2	% Aquatic	100	1.00	100	1.00		
<b>V3</b>	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 90 10	0.96	% 100	0.60	%	
V4	%OW <= 1.5ft	. 85	1.00	75	0.94		
V5	Salinity (ppt) fresh intermediate	. o	1.00	o	1.00		
V6 <i>:</i>	Access Value	1.00	1.00	1.00	1.00		
		HSI =	0.92	HSI =	0.80	HSI =	

AAHU CALCULATION

Project: CW-1 Dedicated Dredging in the Miss. River Increment 1

<b>Future Withou</b>	t Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	1900	0.30	560.70	
1	1900	0.30	560.70	560.70
3	1900	0.29	542.05	1102.75
10	1900	0.27	519.43	3715.17
20	1900	0.26	491.22	5053.22
			AAHU's =	521.59

Future With P	roject		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	1900	0.30	560.70	
1	1900	0.38	730.19	645.44
3	1900	0.92	1757.37	2487.56
10	1900	0.92	1745.75	12260.92
20	1900	0.80	1518.74	16322.45
į.				
			1	
·				
			AAHU's	1585.82

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	1585.82
B. Future Without Project AAHU's =	521.59
Net Change (FWP - FWOP) =	1064.23

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

CW-1 Dedicated Dredging in the Mississippi River - Increment 1

Date:

December 11, 1996

Total Area:

1,900

Target	FV	VOP	F	FWP	
Year Year	Acres	%	Acres	%	Net Acres
0	30	2	30	2	
1	29	2	380	20	351
2	29	2	380	20	351
3	28	1	1,710	90	1,682
4	. 27	1	1,690	89	1,663
5	27	1	1,670	88	
6	26	1	1,650	87	1,643
7	25	1	1,631	86	1,624
8	25	i	1,612	85	1,60 <b>6</b>
9.	24	1	1,593	84	1,587
10	24	1	1,574	83	1,569
11	23	1	1,537		1,551
12	23	i	1,501	81 79	1,514
13	22	1	1,466	79 77	1,479
14	22	1	1,400		1,444
15	21	1	1,431	75 74	1,410
16	21	1		74 72	1,377
17	20	1	1,365	72: 70	1,344
18	20	1	1,333	70 60	1,313
19	19	1	1,301	68	1,282
20	19		1,271	67	1,252
	19	1	1,241	65	1,222
Total Years 1-20	472		27,735		
Average Annual	24	· .	1,387	;	1,363

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... CW-1 Dedicated Dredging in the Miss. River

Marsh type acres:

Increment 2

Fresh.....

730

Condition: Future Without Project

Intermediate..

_		TY 0		TY 2		TY 4	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	5	0.15	5	0.15	4	0.14
V2	% Aquatic	20	0.28	20	0.28	20	0.28
<b>V3</b>	Interspersion Class 1 Class 2 Class 3	%	0.20	%	0.20	%	0.20
	Class 4 Class 5	100		100		100	
V4	%OW <= 1.5ft	33	0.47	33	0.47	33	0.47
V5	Salinity (ppt) fresh intermediate	0	1.00	0	1.00	o	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.29	HSI =	0.29	HSI =	0.28

Project...... CW-1 Dedicated Dredging in the Miss. River FWOP

		TY 11		TY 20			
Variable		Value	Si	Value	SI	Value	SI
V1	% Emergent	4	0.14	3	0.13		
V2	% Aquatic	20	0.28	15	0.24		
<b>V3</b>	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	100	0.20	% 100	0.20	%	
∀4	%OW <= 1.5ft	25	0.38	15	0.27		
V5	Salinity (ppt) fresh intermediate	0	1.00	0	1.00		
V6	Access Value	1.00	1.00	1.00	1.00		
		HSI =	0.27	HSI =	0.25	HSI =	

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... CW-1 Dedicated Dredging in the Miss. River

Marsh type acres:

Increment 2

Fresh.....

730

Condition: Future With Project

Intermediate..

	7	TY 0		TY 2		TY 4	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	5	0.15	20	0.28	90	0.9
V2	% Aquatic	20	0.28	0	0.10	78	0.8
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	100	0.20	% 100	1.00	100	1.00
V4	%OW <= 1.5ft	33	0.47	100	0.60	100	0.60
V5	Salinity (ppt) fresh intermediate	0	1.00	0	1.00	o	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	<u>L</u>	HSI =	0.29	HSI =	0.38	HSI =	0.88

Project...... CW-1 Dedicated Dredging in the Miss. River

	T. (	TY 11		TY 20			
/ariable		Value	SI	Value	SI	Value	SI
V1	% Emergent	83	0.85	67	0.70	,	
V2	% Aquatic	78	0.80	. 65	0.69		
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 90 10	0.98	% 100	0.60	%	
V4	%OW <= 1.5R	85	1.00	75	0.94		-
V5	Salinity (ppt) fresh intermediate	0	1.00	0	1.00		
V6	Access Value	1.00	1.00	1.00	1.00		

# **AAHU CALCULATION**

Project: CW-1 Dedicated Dredging in the Miss. River Increment 2

Future Withou	Future Without Project		re Without Project		Total	Cummulative	
TY	Acres	x HSI	HU's	HU's			
0	730	0.29	209.97				
2	730	0.29	209.97	419.94			
4	730	0.28	205.18	415.15			
11	730	0.27	200.31	1419.21			
20	730	0.25	184.51	1731.70			
	-						
<u> </u>	<del>\</del>		AAHU's =	199.30			

uture With Pr	ture With Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	730	0.29	209.97	
2	730	0.38	280.55	490.52
4	730	0.88	645.91	926.46
11	730	0.88	642.76	4510.37
20	730	0.75	549.21	5363.88
		ĺ	AAHU's	564.56

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	564.56
B. Future Without Project AAHU's =	199.30
Net Change (FWP - FWOP) =	365.26

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

CW-1 Dedicated Dredging in the Mississippi River - Increment 2

Date:

December 11, 1996

Total Area:

730

Target	FV	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	35	5	35		
ì	34	5	35 35	5 5	1
2	33	5			1
3	33		146	20	113
		4	146	20	113
4	32	4	657	90	625
5	31	4	649	89	618
6	30	4	642	88	611
7	30	4	634	87	604
8	29	4	627	86	<b>598</b>
9	28	4	619	85	591
10	28	4	612	84	5 <b>84</b>
11	27	4	605	83	578
12	26	4	591	81	564
13	26	4	577	79	551
14	25	3	563	77	538
. 15	24	3	550	75	5 <b>25</b>
16	24	3	537	74	513
17	23	3	524	72	501
18	23	3 3 3	512	70	489
19	22		500	68	478
20	22	3 3	488	67	467
Total Years 1-20	550		10,214		
Average Annual	28	·	511		483

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... CW-1 Dedicated Dredging in the Miss. River

Marsh type acres:

increment 3

Fresh.....

850

Condition: Future Without Project

Intermediate..

	7	TY 0		TY 2		TY 4	
<u>Variable</u>		Value	SI	Value	SI	Value	SI
V1	% Emergent	10	0.19	10	0.19	10	0.19
V2	% Aquatic	50	0.55	50	0.55	50	0.55
V3	Interspersion Class 1 Class 2 Class 3 Class 4	100	0.20	100	0.20	% 100	0.20
V4	Class 5 %OW <= 1.5ft	88	1.00	88	1.00	88	1.00
V5	Salinity (ppt) fresh intermediate	o	1.00	0	1.00	0	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	·	HSI =	0.39	HSI ≥	0.39	HSI =	0.39

Project...... CW-1 Dedicated Dredging in the Miss. River

		TY 11		TY 20			
Variable		Value	SI	Value	SI	Value	SI
·V1	% Emergent	9	0.18	9	0.18		
V2	% Aquatic	50	0.55	40	0.46		
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	100	0.20	100	0.20	%	
V4	%OW <= 1.5ft	75	0.94	60	0.78		
V5	Salinity (ppt) fresh intermediate	o	1.00	0	1.00		
V6	Access Value	1.00	1.00	1.00	1.00		
		HSI =	0.38	HSI =	0.36	HSI =	

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... CW-1 Dedicated Dredging in the Miss. River

Marsh type acres:

Increment 3

Fresh.....

850

Condition: Future With Project

Intermediate..

	TY 4		TY 2		TY 0		
SI	Value	SI	Value	SI	Value		Variable
0.9	90	0.28	20	0.19	10	% Emergent	V1
0.9	90	0.10	0	0.55	50	% Aquatic	V2
1.00	% 100	1.00	% 100	0.20	100	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	V3
0.60	100	0.60	100	1.00	88	%OW <= 1.5ft	V4
1.00	0	1.00	0	1.00	0	Salinity (ppt) fresh intermediate	V5
1.00	1.00	1.00	1.00	1.00	1.00	Access Value	V6
	1.00 HSI =	1.00 0.38	1.00   HSI =	0.39	1.00   HSI =	Access Value	

Project...... CW-1 Dedicated Dredging in the Miss. River

		TY 11		TY 20			
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	88	0.89	85	0.87		
V2	% Aquatic:	90	0.91	80	0.82		
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 90 10	0.96	% 100	0.60	%	
V4	%OW <= 1.5R	85	1.00	75	0.94		
V5	Salinity (ppt) fresh intermediate	o	1.00	0	1.00		
V6	Access Value	1.00	1.00	1.00	1.00		
		HSI =	0.93	HSI =	0.86	HSI =	

## **AAHU CALCULATION**

Project: CW-1 Dedicated Dredging in the Miss. River Increment 3

Future Withou	t Project		Total	Cummulative	
TY	Acres	x HSI	HU's	HU's	
0	850	0.39	335.13		
2	850	0.39	335.13	670.26	
4	850	0.39	335.13	670.26	
11	850	0.38	325.59	2312.54	
20	850	0.36	306.47	2844.28	
			AAHU's =	324.87	

Future With Project		re With Project		Cummulative	
TY	Acres	x HSI	Total HU's	HU's	
0	850	0.39	335.13		
2	850	0.38	326.66	661.79	
4	850	0.91	771.38	1098.04	
11	850	0.93	786.35	5452.05	
20	850	0.86	733.05	6837.27	
			AAHU's	702.46	

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	702.46
B. Future Without Project AAHU's =	324.87
Net Change (FWP - FWOP) =	377.59

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

CW-1 Dedicated Dredging in the Mississippi River - Increment 3

Date:

December 11, 1996

Total Area:

850

Target	FV	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	85	10	85	10	
1	85	10	<b>8</b> 5	10	0
2	84	10	170		
3	84	10		20	86
4	83		170	20	86
5	83	10	765 763	90	682
		10	763	90	680
6	82	10	761	90	679
7	82	10	759	89	677
<b>8</b> .	82	10	757	89	676
9	81	10	755	89	674
10	81	10	754	89	673
11	80	9	752	88	671
12	80	9	748	88	668
13	80	9	744	88	665
14	79	9	740	87	661
15	79	9	737	87	658
16	78	9	733	86	655
17	78	9	729	86	651
18	78	9	726	85	648
19	77	9	722	85	645
20	77	9	719	85	642
Total Years 1-20	1,614		13,090		
Average Annual	81		655		574

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project..... CW-5 Marsh Creation East of the Atch. River

Marsh type acres:

1.00

1.00

0.19

Increment 1-Avoca Island

Fresh.....

Intermediate.

2000

1.00

1.00

0.19

1.00

HSI

Condition: Future Without Project

Salinity (ppt) fresh

intermediate

Access Value

V5

V6

Variable         Value         SI         Value         SI         Value           V1         % Emergent         0         0.10         0         0.10         0           V2         % Aquatic         0         0.10         0         0.10         0           V3         Interspersion Class 1 Class 2 Class 3 Class 4 Class 5         0.10         0.10         0.10         0.10           V4         %OW <= 1.5ft         0         0.10         0         0.10         0		i !			171		172	
V2         % Aquatic         0         0.10         0         0.10         0           V3         Interspersion Class 1 Class 2 Class 3 Class 3 Class 3 Class 4 Class 5         0.10         %         0.10	Variable		Value	S!	Value	SI	Value	SI
V3 Interspersion	<u>V1</u>	% Emergent	0	0.10	0	0.10	0	0.10
Class 1 Class 2 Class 3 Class 4 Class 5 100 100 100	V2	% Aquatic	0	0.10	0	0.10	0	0.10
V4 960W = 158	<b>V3</b>	Class 1 Class 2 Class 3 Class 4	,	0.10		0.10		0.10
V4 %OW <= 1.5ft 0 0.10 0 0.10 0		Class 5	100		100		100	
	V4	%OW <= 1.5ft	0	0.10	0	0.10	0	0.10

1.00

1.00

0.19

HSI

1.00

Project..... CW-5 Marsh Creation East of the Atch. River

HSI

		TY 3		TY 4		TY 5	
Variabl <b>e</b>		Value	SI	Value	SI	Value	SI
V1	% Emergent	0	0.10	0	0.10	o	0.10
	% Aquatic	<u> </u>	0.10	0	0.10	0	0.10
V3	Interspersion Class 1 Class 2 Class 3 Class 4	%	0.10	%	0.10	%	0.10
	Class 5	100		100		100	
V4	%OW <= 1.5ft	0	0.10	0	0.10	0	0.10
V5	Salinity (ppt) fresh intermediate	0	1.00	0	1.00	0	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1 00
	<u>!</u>	HSI =	0.19	HSI =	0.19	HSI =	0.19

Project..... CW-5 Marsh Creation East of the Atch. River FWOP

		TY 20					
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	0	0.10				
V2	% Aquatic	0	0.10				<del></del>
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	100	0.10	%		%	
V4	%OW <= 1.5ft	0	0.10				
V5	Salinity (ppt) fresh intermediate	0	1.00				
V6	Access Value	1.00	1.00				
		HSI =	0.19	HSI =		HSI =	

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project..... CW-5 Marsh Creation East of the Atch. River

Marsh type acres:

Increment 1-Avoca Island

Fresh.....

2000 Intermediate.

Condition: Future With Project

		TY 0		TY 1		TY 2	
<u>Variable</u>		Value	SI	Value	SI	Value	SI
V1	% Emergent	0	0.10	5	0.15	10	0.19
V2	% Aquatic	0	0.10	5	0.15	10	0.19
V3	Interspersion Class 1 Class 2 Class 3	%	0.10	%	0.20	%	0.20
	Class 4 Class 5	100		100		100	
V4	%OW <= 1.5ft	0	0.10	2	0.12	5	0.16
V5 	Salinity (ppt) fresh intermediate	0	1.00	o	1.00	. 0	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	<u></u>	HSI =	0.19	HSI <b>=</b>	0.24	HSI =	0.28

Project..... CW-5 Marsh Creation East of the Atch. River

		TY 3		TY 4		TY 5	
Variable		Value	SI [	Value	SI	Value	SI
V1	% Emergent	15	0.24	21	0.29	26	0.33
V2	% Aquatic	15	0.24	20	0.28	25	0.33
V3	Interspersion Class 1 Class 2	%	0.20	%	0.30	%	0.30
	Class 3 Class 4 Class 5	100		50 50		50 50	
V4	%OW <= 1.5ft	7	0.18	10	0.21	13	0.25
V5	Salinity (ppt) fresh intermediate	0	1.00	O	1.00	0	1.00
_V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	<u>L</u>	HSI =	0.32	HSI =	0.37	HSI =	0.40

Project..... CW-5 Marsh Creation East of the Atch. River

		TY 20					
Variabl <b>e</b>		Value	SI	Value	SI	Value	SI
V1	% Emergent	22	0.30				
V2	% Aquatic	20	0.28				<del></del>
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 50 50	0.30	%		%	
V4	%OW <= 1.5ft	10	0.21				
V5	Salinity (ppt) fresh intermediate	0	1.00				
V6	Access Value	1.00	1.00				
		HSI =	0.37	HSI =		HSI =	

# **AAHU CALCULATION**

Project: CW-5 Marsh Creation East of the Atch. River Increment 1-Avoca Island

Future Withou	t Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	2000	0.19	376.51	
1	2000	0.19	376.51	376.51
2	2000	0.19	376.51	376.51
3	2000	0.19	376.51	376.51
4	2000	0.19	376.51	376.51
5	2000	0.19	376.51	376.51
20	2000	0.19	376.51	5647.65
			AAHU's =	376 51

Future With P	roject		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	2000	0.19	376.51	
1	2000	0.24	472.92	424.71
2	2000	0.28	553.60	513.26
3	2000	0.32	630.70	592.15
4	2000	0.37	732.97	681.83
5	2000	0.40	808.86	770.91
20	2000	0.37	743.03	11639.16
			AAHU's	731.10

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	731.10
B. Future Without Project AAHU's =	376.51
Net Change (FWP - FWOP) =	354.59

### AVERGE ANNUAL ACRES OF EMERGENT MARSH

Project:

CW-5 Marsh Creat. East of Atch. River - Avoca Isl. - Inc. 1

Date:

November 19, 1996

Total Area:

2,000

Target	FV	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
	0	•			
0	0	0	0	0	
1	0	0	103	5	103
2	0	0	206	10	206
3	0	0	308	15	308
4	0	0 .	411	21	411
5	0	0	514	26	514
6	0	0	508	25	508
7	0	0	502	25	502
8	0	0	497	25	497
9	0	0	491	25	491
10	0	0	486	24	486
11	0	0	480	24	480
12	0	0	475	24	475
13	0	0	469	23	469
14	0	0	464	23	464
15	. 0	0	459	23	459
16	0	0	454	23	454
17	0	0	449	22	449
18	0	0	443	22	443
19	0	0	438	22	438
20	0	0	434	22	434
Total Years 1-20	0		8,591		·
Average Annual	0		430		430

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL

#### Fresh/Intermediate Marsh

Project...... PBA-11 Red/Spanish Pass Diversion

Marsh type acres:

Fresh.....

2403

Condition: Future Without Project

Intermediate.

	. [	TY 0	1	TY 1		TY 20	
Variable	1	Value	SI	Value	SI	Value	SI
V1	% Emergent	12	0.21	11	0.20	7	0.10
V2	% Aquatic	45	0.51	45	0.51	35	0.4
V3	Interspersion Class 1 Class 2 Class 3	%	0.20	%	0.20	%	0.2
	Class 4 Class 5	100		100		100	
V4	%OW <= 1.5ft	20	0.33	20	0.33	10	0.2
V5	Salinity (ppt) fresh intermediate	3	0.60	3	0.60	3	0.60
<u>v6</u>	Access Value	1.00	1.00	1.00	1.00	1,00	1.00
		HSI =	0.32	HSI =	0.32	HSI =	0.27

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... PBA-11 Red/Spanish Pass Diversion

Marsh type acres:

Condition: Future With Project

Fresh..... Intermediate.. 2403

		TY 0	1	TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1_	% Emergent	12	0.21	12	0.21	14	0.23
V2	% Aquatic	45	0.51	50	0.55	70	0.73
V3	Interspersion Class 1 Class 2	%	0.20	%	0.20	%	0.24
	Class 3 Class 4 Class 5	100		100		20 80	
V4	%OW <= 1.5ft	20	0.33	20	0.33	40	0.55
V5	Salinity (ppt) fresh intermediate	3	0.60	2	1.00	2	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	L	HSI =	0.32	HSI =	0.36	HSI =	0.41

# **AAHU CALCULATION**

Project: PBA-11 Red/Spanish Pass Diversion

<b>Future Witho</b>	Future Without Project		Total	Cummulative	
TY	Acres	x HSI	HU's	HU's	
0	2403	0.32	776.45		
1	2403	0.32	760.41	768.43	
20	2403	0.27	649.29	13392.14	
				1	
			AAHU's =	708.03	

Future With Project			Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	2403	0.32	776.45	
1	2403	0.36	860.35	818.40
20	2403	0.41	986.11	17541.31
			AAHU's	917.99

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	917.99
B. Future Without Project AAHU's =	708.03
Net Change (FWP - FWOP) =	209.96

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PBA-11 Red/Spanish Pass Diversion

Date:

October 3, 1996

Total Area:

2,403

Target _	FV	/OP	F	WP	
Year	Acres	%	Acres	%	Net Acres
	270	10	270	12	
0	279	12	279	12	10
1	270	11	282	12	12
2	262	11	286	12	24
3	254	11	289	12	35
4	246	10	293	12	47
5	239	10	296	12	57
6	232	10	300	12	68
7	225	9	303	13	78
8	219	9	307	13	88
9	213	9	310	13	97
10	207	9	314	13	107
11	201	8	317	13	116
12	196	8	320	13	124
13	191	8	324	13	133
14	186	8	327	14	141
15	181	8	331	14	150
16	177	7	334	14	157
17	172	7	338	14	165
18	168	7	341	14	173
19	164	7	345	14	180
20	161	7	348	14	187
Total Years 1-20	4,165		6,305		:
Average Annual	208		315		107

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project...... CW-4 Marsh Creation at West Pt. a la Hache

Marsh type acres.....

1,146

Condition: Future Without Project

• • • • •		TY 0		TY1		TY 3	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	9	0.18	9	0.18	9	0.18
V2	% Aquatic	50	0.65	50	0.65	50	0.65
V3	Interspersion Class 1 Class 2 Class 3 Class 4	% 5 95	0.21	% 5 95	0.21	% 5 95	0.21
V4	Class 5 %OW <= 1.5ft	0	0.10	0	0.10	0	0.10
V5	Salinity (ppt)	3	1.00	3	1.00	3	0.10 1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	L.	HSI =	0.35	HSI =	0.35	HSI =	0.35

Project...... CW-4 Marsh Creation at West Pt. a la Hache FWOP

\		TY 20					
Variable		Value	SI	Value	SI	Value	SI
V1	% Ernergent	8	0.17				
V2	% Aquatic	50	0.65				
V3	Interspersion Class 1 Class 2	%	0.21	%		%	
	Class 3 Class 4 Class 5	5 95					
V4	%OW <= 1.5ft	5	0.16				<del>"</del>
V5	Salinity (ppt)	3	1.00				
·V6	Access Value	1.00	1.00				
		HSI =	0.35	HSI =	<del></del>	HSI =	

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project...... CW-4 Marsh Creation at West Pt. a la Hache

Marsh type acres......

1146

Condition: Future With Project

		TY 0		TY 1		TY 3	
Variable		Value	SI	Value	SI	Value	SI
V1	% Ernergent	9	0.18	24	0.32	70	0.73
V2	% Aquatic	50	0.65	25	0.48	60	0.
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 5 95	0.21	% 75 25	0.85	% 75 25	0.85
V4	%OW <= 1.5ft	0	0.10	100	0.60	100	0.60
V5	Salinity (ppt)	3	1.00	3	1.00	3	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1
	L	HSI =	0.35	HSI =	0.52	HSI =	0.78

Project...... CW-4 Marsh Creation at West Pt. a la Hache FWP

% Emergent % Aquatic Interspersion	66 60 %	0.69 0.72	Value	SI	Value	SI
% Aquatic	60					
Interspersion		0.72				
	9/	1	1			i
Class 1 Class 2 Class 3 Class 4 Class 5	70 5 25	0.83	%		%	-
60W <= 1.5ft	80	1.00	•			
Salinity (ppt)	3	1.00				
Access Value	1.00	1.00				
	Class 3 Class 4 Class 5 OW <= 1.5ft Salinity (ppt)	Class 3     Class 4     Class 5  OW <= 1.5ft 80  Salinity (ppt) 3	Class 3     Class 4     Class 5  OW <= 1.5ft 80 1.00  Salinity (ppt) 3 1.00  Access Value 1.00 1.00	Class 3     Class 4     Class 5  OW <= 1.5ft 80 1.00  Salinity (ppt) 3 1.00  Access Value 1.00 1.00	Class 3     Class 4     Class 5  OW <= 1.5ft 80 1.00  Salinity (ppt) 3 1.00  Access Value 1.00 1.00	Class 3     Class 4     Class 5  OW <= 1.5ft

AAHU CALCULATION

Project: CW-4 Marsh Creation at West Pt. a la Hache

Future Without Project		Without Project		Cummulative
TY	Acres	x HSI	HU's	HU's
0	1,146	0.35	404.45	· · · · · · · · · · · · · · · · · · ·
1	1,146	0.35	404.45	404.45
3	1,146	0.35	404.45	808.90
20	1,146	0.35	401.07	6846.91
	<u>-</u>		AAHU's =	403.01

uture With Pr	ture With Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	1,146	0.35	404.45	
1	1,146	0.52	592.74	498.59
3	1,146	0.78	899.01	1491.75
20	1,146	0.79	910.62	15381.86
		<del></del>	AAHU's	868.61

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	868.61
B. Future Without Project AAHU's =	403.01
Net Change (FWP - FWOP) =	465.60

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

CW-4 Marsh Creation at W. Pt. a la Hache

Date:

October 16, 1996

Total Area:

1,146

Target	FW	/OP	F'	WP	
Year	Acres	%	Acres	%	Net Acres
0	103	9	103	9	
1	102	9	278	24	176
2	102	9	277	24	175
3	101	9	801	70	700
4	100	9	798	70	<b>698</b> .
. 5	100	9	796	69	696
6	99	9	793	69	694
7	99	9	<b>79</b> 1	69	692
8	98	9	788	69	691
9	97	8	786	69	689
10	97	8	783	68	687
11	96	8	781	68	685
12	95	8	<i>77</i> 9	68	683
13	95	8	776	68	681
14	94	8	774	68	679
15	94	8	<b>77</b> 1	67	677
16	93	8	769	67	676
17	92	8	766	67	674
18	92	8	764	67	672
19	91	8	<b>76</b> 1	66	670
20	91	8	759	66	668
Total Years 1-20	1,929		14,592		
Average Annual	96		730		633

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... CW-5 Marsh Creation East of the Atch. River

Marsh type acres:

Increment 2-Creole Bayou

Fresh.....

Condition: Future Without Project

Intermediate.. 600

		TY 0		TY 1		TY 20	TY 20	
Variable		Value	SI	Value	SI	Value	SI	
V1	% Emergent	10	0.19	10	0.19	10	0.19	
V2	% Aquatic	5	0.15	5	0.15	5	0.15	
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	100	0.40	% 100		100	0.40	
V4	%OW <= 1.5ft	50	0.66	50	0.66	50	0.66	
V5	Salinity (ppt) fresh intermediate	5	0.80	5	0.80	5	0.80	
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00	
	L	HSI =	0.30	HSI =	0.30	HSI =	0.30	

#### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... CW-5 Marsh Creation East of the Atch. River

Marsh type acres:

Increment 2-Creole Bayou

Fresh.....

Condition: Future With Project

Intermediate.. 600

		TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	10	0.19	54	0.59	54	0.59
V2	% Aquatic	5	0.15	10	0.19	10	0.19
V3	Interspersion Class 1 Class 2	%	0.40	%	0.50	%	0.50
	Class 3 Class 4 Class 5	100		50 50		50 50	
V4	%OW <= 1.5ft	50	0.66	80	1.00	80	1.00
V5	Salinity (ppt) fresh intermediate	5	0.80	5	0.80	5	0.80
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.30	H\$I ≥	0.53	HSI =	0.53

### **AAHU CALCULATION**

Project: CW-5 Marsh Creation East of the Atch. River Increment 2-Creole Bayou

<b>Future Witho</b>	Future Without Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	600	0.30	181.52	
1	600	0.30	181.52	181.52
20	600	0.30	181.52	3448.94
<u> </u>			= e'UHAA	181.52

Future With F	uture With Project		re With Project		Total	Cummulative	
TY	Acres	:x HSI	HU's	HU's			
0	600	0.30	181.52				
1	600	0.53	319.35	250.43			
20	600	0.53	319.35	6067.58			
			AAHU's	315.90			

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	315.90
B. Future Without Project AAHU's =	181.52
Net Change (FWP - FWOP) =	134.38

#### **AVERGE ANNUAL ACRES OF EMERGENT MARSH**

Project:

CW-5 Marsh Creat. East of Atch. River-Creole Bayou - Inc. 2

Date:

November 19, 1996

Total Area:

600

Target	FV	VOP	F	FWP		
Year	Acres	%	Acres	%	Net Acres	
•	<b>60</b>					
0	60	10	60	10		
1	60	10	324	54	264	
2	60	10	324	54	264	
3	60	10	324	54	264	
4	60	10	324	54	264	
5	60	10	324	54	264	
6	60	10	324	54	264	
7	60	10	324	54	264	
8	60	10	324	54	264	
9	60	10	324	54	264	
10	60	10	324	54	264	
11	60	10	324	54	264	
12	60	10	324	54	264	
13	60	10	324	. 54	264	
14	60	10	324	54	264	
15	60	10	324	54	264	
16	60	10	324	54	264	
17	60	10	324	54	264	
18	60	10	324	54	264	
19	60	10	324	54	264	
20	60	10	324	54	264	
Total Years 1-20	1,200		6,480		<b>:</b> :	
Average Annual	60		324		264	

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project...... PME-2 Breakwaters at Rockefeller Refuge

Marsh type acres......

140

Condition: Future Without Project

	7 [	TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	66	0.69	62	0.66	0	0.10
V2	% Aquatic	4	0.33	4	0.33	0	0.30
V3	Interspersion Class 1 Class 2 Class 3	% 60	0.68	% 60	0.68	%	0.10
	Class 4 Class 5	40		40		100	
V4	%OW <= 1.5ft	10	0.23	10	0.23	2	0.13
V5	Salinity (ppt)	12	1.00	12	1.00	15	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.69	HSI =	0.67	HSI =	0.25

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL. Saline Marsh

Project...... PME-2 Breakwaters at Rockefeller Refuge

Marsh type acres......

140

Condition: Future With Project

		TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI )	Value	SI
V1	% Emergent	66	0.69	64	0.68	33	0.40
V2	% Aquatic	4	0.33	4	0.33	4	0.33
<b>V</b> 3	Interspersion Class 1 Class 2 Class 3	% 60	0.68	60	0.68	30	0.44
	Class 4 Class 5	40		40		70	•
V4	%OW <= 1.5ft	10	0.23	10	0.23	5	0.16
V5	Salinity (ppt)	12	1.00	12	1.00	12	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.69	HSI =	0.68	HSI =	0.50

## **AAHU CALCULATION**

Project: PME-2 Breakwaters at Rockefeller Refuge

Future Without Project		re Without Project		Cummulative	
TY	Acres	x HSI	Total HU's	HU's	
0	140	0.69	96.39		
1	140	0.67	93.83	95.11	
20	140	0.25	34.74	1221.46	
		į	= s'UHAA	65.83	

Future With Project				Cummulative	
TY	Acres	x HSI	HU's	HU's	
0	140	0.69	96.39		
1	140	0.68	95.12	95.75	
20	140	0.50	70.26	1571.13	
			AAHU's	83.34	

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	83.34
B. Future Without Project AAHU's =	65.83
Net Change (FWP - FWOP) =	17.52

#### AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PME-2 Breakwaters at Rockefeller Refuge

Date:

September 9, 1996

Total Area:

140

Target	FV	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	92	66	92	66	••
1	87	62	90	64	3
2	83	59	88	63	5
3	78	56	85	61	7
4	74	53	83	59	9
5	69	49	81	58	12
6	64	46	78	56	14
7	60	43	76	54	16
8	55	39	74	53	. 19
· 9	51	36	71	51	21
10	46	33	69	49	23
11	41	30	67	48	25
12	37	26	65	46	28
13	32	23	62	44	30
14	28	20	60	43	32
15 <sup>°</sup>	23	16	58	41	35
16	18	13	55	39	37
17	14	10	53	38	39
18	9	7	51	36	41
19	5	3	48	35	44
20	0	0	46	33	46
Total Years 1-20	874	•	1,360		•
Average Annual	44		68		24

• 

# Coastal Wetlands Planning, Protection and Restoration Act

6th Priority Project List Report

Appendix F

Public Support for Candidate Projects

#### Public Support for Candidate Projects<sup>1</sup> for the 6th Priority Project List

XTE-32i

Bayou Boeuf Pump Station

Resolution 97-29 St. Mary Parish Council, 31 March 97

PTE-26

Penchant Basin

W. L. Berry (The Louisiana Land and Exploration Company), 10 April 97 Resolution -Terrebonne Parish Council, 25 March 97

TE-7f

Lake Boudreaux Basin Freshwater
Introduction and Hydroloizic ManagementAlternative B

Resolution 97-119 Terrebonne Parish Council, 25 March 97

CW-6v

Lafourche Parish Dedicated Dredgmg Resolution 97-039 Lafourche Parish Council, 8 April 97 Windell A Curole (South Lafourche Levee District), 2 April 97 Mitchell R. Tberiot (House of Representatives Disifict 54), 19 March 97 Aaron Caillouet (Lafourche Parish President), 20 March 97

XTV-25/PTV-10

Oaks-Avery Canals Hydroloizic Restoration
Honorable Chris John (Member of Congress),
17 March 97
James V. Delcambre (President, Tri-Parish
Coastal Wetland Landowners' Association) Michael
J. Bertrand (Secretary-Vermilion Parish
Police Jury), 27 March 97

Honorable Craig F. Romero (Committee on Natural Resources), 9 December 96

Ira "Bill" Searle (Chairman, Vermihon Soil and Water Conservation District), 14 March 97 Honorable Mary L. Landrieu (U.S. Senator), 6 March 97 Bill Good, Ph.D. (Department of Natural Resources), 16 December 96

Honorable Craig F. Romero (State Senator),

11 March 97

Honorable Troy Hebert (State Senator), 11 March 97 Minus J. Gisclar (Iberia Soil and Water Conservation

District), 11 March 97

Will Lang@ais (Iberia Parish President),

11 March 97

Thomas Pullin (Isadore Delcambre Estate),

17 March 97

CW-5i

Marsh Creation East of the Atchafalaya River-Avoca Island

Edward B. Grimball (Avoca, Incorporated), 10 April 97

PTV-19b

Sediment Trai)r)in-g at the Jaws
Resolution-St. Mary Parish Council, 22 January 97
Honorable Jack Smith (State Representative,
District 50), 4 February 97
Honorable Butch Gautreaux (State Representative,
District 51), 6 Febniary 97
Honorable John Siracusa (State Senator),
7 February 97

PBA-12b

Barataria Bay Waterway Bank Protection East Honorable Arffiur J. Lentini (State Senator, District 10), 4 April 97 Woody Crews (Chairman, Wetlands Committee), 7 April 97 Honorable Robert L. Livingston (Member of Congress), 25 March 97 Honorable Charles D. Lancaster, Jr. (Louisiana House of Representatives), 1 April 97

<sup>&</sup>lt;sup>1</sup> Date listed is date of letter of support

#### Public Support for Candidate Projects for the 6'h Priority Project List (Continued)

CW-6v
<u>Lafourche Parish Dedicated Dredging</u>
Daniel Lorraine (Lafourche Parish Councilman,
District 15), 24 March 97

Rod Toups (Lafourche Prish Councilman, District 14), 20 March 97 Honorable Michael R. Robichaux, M.D.

(State Senator, District 20), 24 March 97

XCS-48

Black Bayou Hydroloizic Restoration

Honorable Kay Lies (House of Representatives, District 31),

AD. 1 06

4 December 96

Honorable James David Cain

(State Senator), 4 December 96

Honorable Vic Stelly (House of

Representatives, District 35),

4 December 96

Joe Picard (Sulphur, La.),

17 December 96

Ben Terrell (Terrell & Associates, Inc.),

13 December 96

Duford Henry (Lake Charles, La.),

12 February 97

Anthony Beaugh (Lake Charles, La.),

12 February 97

Elmer R. Conner (Elmer Conner-

General Contractor, Inc.),

13 December 96

Honorable Thomas H. Casanova, III, M.D.

(State Senator, District 26), 10 December 96

Honorable Ronnie Johns (State Senator,

District 33),6 December 96

T. Barry Wilkinson (Attomey At Law),

10 December 96

PBA-12b

Barataria Bay Waterway Bank Protection East

Honorable Shirley D. Bowler (State

Representative, District 78), 26 March 97

Robert E. Kerrigan, Jr. (Deutrch, Kerrigan &

Stiles, L.L.P.), 25 March 97

Tim P. Coulon (President, Jefferson Parish),

20 March 97

Honorable Francis C. Heitineier (State Senator,

District 7), 26 March 97

Honorable Stephen J. Windhorst (State

Representative, District 86), 28 March 97

Honorable N.J. Damico (State Representative,

District 84), 27 March 97

Honorable John J. Hainkel, Jr. (State Senator,

District 6), 28 March 97

Honorable Glenn Ansardi (House of Representatives,

District 92), 26 March 97

Honorable Charles D. Lancaster, Jr. (House of

Representatives, District 80), 1 April 97

#### Public Support for Candidate Projects for the 6'h Priority Project List (Continued)

XCS-48 Black Bayou Hydrologic Restoration Resolution (Mangus Mc Gee-Cameron Parish Gravity Drainage District 7), 12 December 96 Resolution (Police Jury of Calcasieu Parish, Louisiana), 5 December 96 Richard McKinzey (McKinzey Metal Works & A/C), 11 December 96 Rod Vallot (Lake Charles, La.) Pam Sturrock (Calcasieu Parish Police Jury), 11 December 96 Buddy Hoffpauir (Crowley, Louisiana), 18 December 96 John L. Schexnailder, Pat Schexnailder, Chad Schexnailder (Schexnailder Sheet Metal Works, Inc.), 17 December 96 Stephen C. Lacy (Vice President Bank One, Louisiana, NA), 19 December 96 Stephen S. Adams (Geohydrologist, Enact, Inc.), 17 December 96 M.S. Harmison (Lake Charles, La.), 16 December 96 A.R. Hodgkins, Jr., 13 December 96 Nathan R. Fontenot, Sr., 17 December 96 Mark A. Gaspard (Lake Charles, La.), 13 December 96 Ray Morgan (Presiden, Morgan Roofing Co.), 16 December 96 Richard J. Breaux, Jr., 17 December 96 Honorable James J. Cox (State Senator, District 27), 5 December 96 Honorable Gerald J. Theunissen (State Senate), 5 December 96 Honorable Hennan Ray Hill (State Representative, District 32, 4 December 96 Resolution Cameron Parish Pohce Jury, 3 December 96 Larry Daughdrfll (Westlake, La.), 16 December 96 Alfred A. Palma, Jr. (Alfred Palma, Inc.), 13 December 96 Honorable Daniel T. "Dan" Flavin (House of Representatives, District 36),

3 December 96

Honorable Mary L. Landrieu (U.S. Senator), 21 January 97



We the undersigned strongly Protest CWPPRA Project # PBA-44 Fort Jackson/ Boothville diversion and PBA-11 Spanish Pass diversion. These projects we feel would harm the environment and cause an undue hardship on the fishing, shrimping, and oyster industry.

NAME **ADDRESS** 

We the undersigned strongly Protest CWPPRA Project # PBA-44 Fort Jackson/Boothville diversion and PBA-11 Spanish Pass diversion. These projects we feel would harm the environment and cause an undue hardship on the fishing, shrimping, and oyster industry.

We the undersigned strongly Protest CWPPRA Project # PBA-44 Fort Jackson/ Boothville diversion and PBA-11 Spanish Pass diversion. These projects we feel would harm the environment and cause an undue hardship on the fishing, shrimping, and oyster industry.

NAME **ADDRESS** BootHville, LA. 70038

1.

We the undersigned strongly Protest CWPPRA Project # PBA-44 Fort Jackson/Boothville diversion and PBA-11 Spanish Pass diversion. These projects we feel would harm the environment and cause an undue hardship on the fishing, shrimping, and oyster industry.

NAME _	1	<b>ADDRESS</b>		
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## Coastal Wetlands Planning, Protection and Restoration Act

6<sup>th</sup> Priority Project List Report

Appendix G

Status of Projects from Previous Priority Project Lists

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## Status of Projects from Previous Priority Project Lists

## Table of Contents

		Page
		Number
DEPARTMEN	T OF THE ARMY, CORPS OF ENGINEERS	
1 <sup>st</sup>	Priority Project List	. G-1
	Barataria Bayou Marsh Creation	
	Bayou Labranche Wetlands Restoration	
	Lake Salvador Shoreline Protection at	
	Jean Lafite NHP&P	. G-2
	Vermilion River Cutoff Bank Protection	
	West Bay Sediment Diversion	
	nebe bay bearmone barreless.	
2 <sup>nd</sup>	Priority Project List	
	Clear Marais Bank Protection	. G-4
3 rd	Priority Project List	. G-6
•	Channel Armor Gap Crevasse	
	MRGO Back Dike Marsh Protection	
	Pass-a-Loutre Crevasse	
	Tabb a modele elevable	,
4 <sup>th</sup>	Priority Project List	
	Grand Bay Crevasse	
	Hopper Dredge Demo	. G-8
5 th	Priority Project List	G-10
J	Bayou Chevee Shoreline Protection	
6 <sup>th</sup>	Priority Project List	
	Avoca Island (Incr 1)	
	Dustpan/Cutterhead Dredge Demo	
	Marsh Island Hydrologic Restoration	G-12
7 <sup>th</sup>	Priority Project List	G-13
•	Cut Off Bayou Marsh Restoration	
	Lake Borgne Shore Protection East &	
	West of Shell Beach	G-13
	Sabine Refuge Marsh Creation	
	Wine Island Eastward Expansion	

## Status of Projects from Previous Priority Project Lists

	Page
ENVIRONMENTAL PROTECTION AGENCY, REGION 6	Number
Priority Project List Conservation Plan  State of Louisiana Wetlands Consevation Plan	. G-17 . G-17
1 <sup>st</sup> Priority Project List	. G-18 . G-18
2 <sup>nd</sup> Priority Project List	. G-19 . G-19
3 <sup>rd</sup> Priority Project List	G-20
4 <sup>th</sup> Priority Project List	G-22
5 <sup>th</sup> Priority Project List	G-23 G-23
6 <sup>th</sup> Priority Project List  Bayou Boeouf/Verret Basin, Incr 1	G-24 G-24
7 <sup>th</sup> Priority Project List Lake Pelto Dedicated Dredging At New Cut Closure	
DEPARTMENT OF THE INTERIOR, FISH & WILDLIFE SERVICE	
1 <sup>st</sup> Priority Project List  Bayou Sauvage #1  Cameron Creole Watershed  Hydrologic Restoration	G-27
Cameron Prairie Refuge Shoreline Protection	G-28

# Status of Projects from Previous Priority Project Lists

		Number
2 <sup>nd</sup>	Priority Project List	. G-29
3 <sup>rd</sup>	Priority Project List	. G-30
5 <sup>th</sup>	Priority Project List	. G-31 . G-31
6 <sup>th</sup>	Priority Project List  Lake Boudreaux FW Introduction, Alt B  Nutria Harvest for Wetland  Restoration Demo	. G-32
DEPARTMEN	NT OF COMMERCE, NATIONAL MARINE FISHERIES SERVICE	
• 1 <sup>st</sup>	Priority Project List  Fourchon Hydrologic Restoration  Lower Bayou LaCache Hydrologic Restoration	. G-35
2 <sup>nd</sup>	Priority Project List	. G-37 . G-37
3 <sup>rd</sup>	Priority Project List  Bayou Perot/Bayou Rigolettes  Marsh Restoration  East Timbalier Island  Sediment Restoration #1	. G-39
	Lake Chapeau Sediment & Hydrologic Restoration Lake Salvadore Shore Protection Demo	. G-40 . G-38
	Priority Project List  East Timbalier Island Sediment  Restoration #2  Eden Isles East Marsh Restoration	. G-41
	Total Isles Bast Maish Restolation	.G-41

## Status of Projects from Previous Priority Project Lists

		Page Number
_ti		
5-	Priority Project List	G-43
	Little Vermilion Bay Sediment Trapping	G-43
	Myrtle Grove Siphon	G-43
6 <sup>t1</sup>	Priority Project List	G-45
	Black Bayou Hydrologic Restoration	. G-45
	Delta-Wide Crevasses	
	Jaws Sediment Trapping	
7 <sup>t1</sup>	Priority Project List	G-47
	Grand Terre Vegetative Plantings	G-47
	Pecan Island Terracing	
מאיים גם שרו	NT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE	
DEPARINE	MI OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE	
1 <sup>57</sup>	Priority Project List	. G-49
	B-2 GIWW to Clovelly Wetland Restoration	
	Vegetative Plantings Demo-Dewitt-Rollover	
	Vegetative Palntings Demo-Falgout Canal	. G-50
	Vegetative Plantings Demo-Timbalier Island	G-50
	Vegetative Plantings Demo-West Hackberry	. G-50
2.00	Priority Project List	a 50
2		
	Brown Lake	
	Caernarvon Outfall Management	
	Freshwater Bayou	
	Fritchie Marsh	
	Hwy 384	
	Jonathan Davis Wetland	
	Mud Lake	
	Vermilion Bay/Boston Canal	. G-55
3**	Priority Project List	. G-56
	Brady Canal	
	Cameron Creole Maintenance	

## Status of Projects from Previous Priority Project Lists

		Page
		Number
	Cote Blanche	
	SW Shore White Lake Demo	G-57
	Violet Freshwater Distribution	G-57
	West Point-a-la-Hache Outfall Management	G-58
	White's Ditch Outfall Management	G-58
A th	Priority Project List	G-59
-	Bayou L'Ours Ridge Hydrologic Restoration	
	BBWW " Dupre Cut" -West	
	Flotant Marsh Fencing Demo	G-59
	Perry Ridge Bank Protection	
	Plowed Terraces Demo	
	Plowed Terraces Demo	G-53
5 <sup>th</sup>	Priority Project List	G-60
	Freshwater Bayou Bank Stabilization	G-62
	Naomi Outfall Management	
	Racoon Island Breakwaters Demo	G-63
	Sweet Lake/Willow Lake	G-63
~th	Priority Project List	G-64
6	BBWW " Dupre Cut" -East	G-64
	Cheniere au Tigre Sediment Trapping	0.64
	Device Demo	6-64
	Oaks/Avery Canals Hydrologic Restoration-	à
	Incr 1 (B.S. only)	G-65
	Penchant Basin Plan w/o Shoreline Stabilization	G-65
7 <sup>th</sup>	Priority Project List	G-66
	Barataria Basin Landbridge, Ph 1	G-66
	Barataria Basin Landbridge, Ph 2	
	South Grand Cheniere Freshwater Introduction	G-67
	Thin Mat Floatant Marsh Enhancement Demo	G-67
	Upper Oak River Freshwater Introduction Siphon	G-67

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PROJECT   BASIN   PARISI   ACRES   C'SA   C'anst Start   C'anst Find   Baseline   Current   9,		Š	Project Sta	tus Summar	LANNING, PE 7 Report - Lead	Project Status Summary Report - Lead Agency: DEPT, OF THE ARMY (COE)	VND KESTOK VT. OF THE AL	A HON ACT RMY (COE)			31-Mar-98 Page 1
Priority List 1  Bana JEFF 445 24-Apr-95 A 22-Jul-96 A 31-Dec-00 \$1,759,257 \$1,695; Creation  Remarks: The enlargement of Queen Bess Island was incorporated into the project and the construction of the 9-acre ce completed in October 1996. If Oyster-related conflicts are removed from the remaining marsh creation sites, incorporated into the Corp's O&M deposit plan for the next maintenance cycle.  Status: Completed Queen Bess Island for \$945,678. Remaining funds may be used to purchase oyster leases for O&I disposal.  Bayou Labranche PONT STCHA 203 17-Apr-93 A 06-Jan-94 A \$4,461,301 \$3,658; Wetlands Restoration  Remarks: Contract awarded to T. L. James Co. (Dredge "Tom James") for dredging approximately 2,500,000 cy of Lah Pontchatrain sediments and placing in marsh creation area. Contract final inspection was performed on April 13, 1994. The area was seeded by LA DNR on June 25, 1994. The project site is being monitored. No further work is planned at this time except to address the problem of access for the lease holders in the project area.	PROJECT	BASIN	PARISH	ACRES	CSA	SCHEDULES • Const Start	Const End	Baseline	TIMATES ••••	*	Actual Obligations/ Expenditures
1 1 Remarks: Status: Ron Remarks: Remarks:	Lead Agency: DI:P	I. OF THE A	RMY, COF	PS OF ENC	INEERS						
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FONT Remarks:		Status:	Completed disposal.	Queen Bess Isl	land for \$945,678	. Remaining funds	s may be used to p	wrchase oyster leas	ses for O&M bene	ficial	
	Bayou Labranche Wetlands Restoration	PONT	STCHA	203	17-Apr-93 A	06-Jan-94 A	07-Apr-94 A	\$4,461,301	\$3,658,740	82.0	\$3,379,167 \$3,357,455
The project site is being monitored. No further work is planned at this time except to address the problem of i access for the lease holders in the project area.		Remarks:	Contract av Pontchartra visit by Tas	varded to T. L. in sediments ar k Force took pl	James Co. (Dredų 1d placing in mars lace on April 13, 1	ge "Tom James") ( h creation area. C 1994. The area wa	for dredging appro ontract final inspe is seeded by LA D	eximately 2,500,000 sction was performed in June 25, 19	0 cy of Lake ed on April 7, 199 194.	94. Site	•
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Status: Complete.

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

CELMN-PM-M

CELMN-PM-M	CO	STAL WE	TLANDS PI lus Summary	LANNING, PE	tottection / 1 Agency: DEI	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)	VTION ACT			31-Mar-98 Page 2
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const Ein	Const End	Baseline	Baseline Current %	*	Obligations/ Expenditures
Lake Salvador Shoreline Protection at	BARA	JEFF	0	29-Oci-96 A	01-Jun-95 A	21-Mar-96 A	8,60,000	\$60,000	0.001	\$58,378
Jean Lafitte NHP&P	Remarks:	This project	I was added to	Priority List 1 at t	he March 1995 Ta	This project was added to Priority List I at the March 1995 Task Force meeting.	٠.			
		The Task Force a	orce approved of the project.	the expenditures (	of up to \$45,000 is	The Task Force approved the expenditures of up to \$45,000 in Federal funds and non-Federal funds of \$15,000 (25%) for the design of the project.	non-Federal func	ds of \$15,000 (23	%) for	
		A design review n advertisement for Contracting Corp.	view meeting vent for the constant of the cons	eting was held with Jean Lafitte Park person e construction contract. The contract was a The contract was completed in March 1997.	i Lafille Park pers The contract wa eted in March 199	A design review meeting was held with Jean Lafitte Park personnel in May 1996 to resolve design comments prior to advertisement for the construction contract. The contract was awarded December 4, 1996 for \$610,000 to Bertucci Contracting Corp. The contract was completed in March 1997.	to resolve design er 4, 1996 for \$61	comments prior 0,000 to Bertucc	<u> </u>	
,	Status:	Complete.	Complete. This project was design only.	as design only.						
Vermilion River Cutoff Bank Protection	ТЕСНЕ	VERMI	×	17-Apr-93 A	10-Jan-96 A	11-Feb-96 A	\$1,526,000	\$2,056,249	134.7!	\$1,681,202
	Remarks:	The project was n need for the sedin	was modified sediment reter	nodified by moving the dike from the west to the east bank nent retention fence on the west bank is still undetermined	ce from the west to west bank is still	The project was modified by moving the dike from the west to the east bank of the cutoff to better protect the wetlands. The need for the sediment retention fence on the west bank is still undetermined.	re cutoff to better	protect the wetla	inds. The	•
		The Task F	orce approved	a revised project o	stimate of \$2,500	The Task Force approved a revised project estimate of \$2,500,000; however, current estimate is less.	rent estimate is le	.55.		
		Condemnation of project schedule.		real estate easements was required because of u Construction was completed in February 1996.	required because led in February 19	real estate casements was required because of unclear ownership titles and significantly lengthened the Construction was completed in February 1996.	ip titles and signi	ficantly lengthen	ed the	
	Status:	Complete.								

CEI.MN-PM-M	COV	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT, OF THE ARMY (COE)	LLANDS PL. tus Summary	Report - Lea	4 Agency: DE	Project Status Summary Report - Lead Agency: DEPT, OF THE ARMY (COE)	RMY (COE)			31-Mar-98 Page 3
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const Ein	Const End	Baseline	Baseline Current %	. %	Actual Obligations/ Expenditures
West Bay Sediment Diversion	DELTA	PLAQ	9,831				\$8,517,066	\$16,683,854	16361	\$458,229
	Remarks:	The major portion of flow from the rivamon of material amount of material waterbottom vs. presement acquisitic DNR is reached, pr	portion of the cosmeriver. A mmaterial to be dren n vs. private own squisition through	st increase is for odel study of the deed. However tership, both bef h condemnation I be proposed fo	The major portion of the cost increase is for dredging the anch of flow from the river. A model study of the river and diversic amount of material to be dredged. However, the State of Lou waterbottom vs. private ownership, both before and after proje easement acquisition through condemnation until that issue wa DNR is reached, project will be proposed for de-authorization.	The major portion of the cost increase is for dredging the anchorage as a result of induced shoaling caused by the diversion of flow from the river. A model study of the river and diversion point was completed, providing a basis for estimating the amount of material to be dredged. However, the State of Louisiana was looking into the issue of State-owned waterbottom vs. private ownership, both before and after project construction, and they requested that we not proceed with easement acquisition through condemnation until that issue was resolved. If no resolution on the land rights issue with L.A. DNR is reached, project will be proposed for de-authorization.	of induced shoaling pleted, providing a my into the issue of nd they requested or resolution on the	g caused by the dir to basis for estimation f State-owned that we not proce land rights issue w	version ng the ed with vith L.A	
		In a letter dated M and its location on requesting deautho	ated March I, 19 tion on the "bird" feauthorization o	995, the Local S is foot" delta, wh if the project wa	ponsor, LA DNR lich the CWPPRA s issued to the Ch	In a letter dated March 1, 1995, the Local Sponsor, LA DNR, requested deauthorization of the project citing cost overruns and its location on the "bird's foot" delta, which the CWPPRA Restoration Plan calls for a phased-abandonment. A letter requesting deauthorization of the project was issued to the Chairman of the Technical Committee on August 25, 1995.	orization of the procalls for a phased- nical Committee d	oject citing cost ov abandonment. A on August 25, 199	erruns letter 5.	
		However, at the Fa project proceeded. List estimate by 17	t the February 28 ceded. The CSA e by 125% and w	1, 1996 Task For a was sent to LA vill, therefore, no	However, at the February 28, 1996 Task Force meeting, the State withdrew project proceeded. The CSA was sent to LA DNR for signature in March List estimate by 125% and will, therefore, necessitate Task Force approval.	However, at the February 28, 1996 Task Force meeting, the State withdrew its request for deauthorization and work on the project proceeded. The CSA was sent to LA DNR for signature in March 1997. The current estimate exceeds the Priority List estimate by 125% and will, therefore, necessitate Task Force approval.	equest for deautho The current estim	rization and work nate exceeds the Pr	on the riority	
	Status:	Unschedule	Unscheduled. CSA at DNR since March 1997.	since March 19	997.					

4

\$6,768,635 \$6,613,143

\$24,154,638 148.0

\$16,323,624

10,533

Total Priority List 1

4 Cost Sharing Agreements Executed

5 Project(s)

0 Project(s) Deferred/Deauthorized

0 Unfunded Project(s)

4 Construction Started
3 Construction Completed

CELMN-PM-M	<b>/</b> 00	NSTAL WE Project Stat	TLANDS P tus Summar	LANNING, PI y Report - Lea	OTECTION A	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)	ATION ACT RMY (COE)			31-Mar-98 Page 4
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %		Actual Obligations/ Expenditures
Priority List 2										
Clear Marais Bank Protection	CALC	CALCA	990'1	29-Apr-96 A	29-Aug-96 A	03-Mar-97 A	\$1,741,310	\$3,416,212	196.2 !	\$2,869,956 \$2,765,651
	Remarks:	The original construction of the quantity needed construction. This accepsing and costs about	t construction lity needed (ban). This accour	on estimate was low, (based on the origina ounts for most of the \$89/foot.	based on the propil design), and the cost increase show	osed plan in that the stimate did not in that the stimate did not in the current es	he rock quantity e clude a floatation timate is based on	The original construction estimate was low, based on the proposed plan in that the rock quantity estimate was less than half of the quantity necded (based on the original design), and the estimate did not include a floatation channel needed for construction. This accounts for most of the cost increase shown. The current estimate is based on the original rock dike design and costs about \$89/foot.	half e	
		The Cost St Bros., Inc. 1	The Cost Sharing Agreeme Bros., Inc. for \$2,694,000.	ient was executed Construction w	was executed and approved and the constru Construction was completed in March 1997.	the construction of farch 1997.	contract awarded	The Cost Sharing Agreement was executed and approved and the construction contract awarded on August 1, 1996 to Luhr Bros., Inc. for \$2,694,000. Construction was completed in March 1997.	Luhr	
		There is an GIWW mai	There is an opportunity to crea GIWW maintenance dredging.	create marsh behi ging.	ind the rock dike t	etween Brannon (	Janal and Alkalic	There is an opportunity to create marsh behind the rock dike between Brannon Canal and Alkalie Ditch using material from GIWW maintenance dredging.	from	
	Status:	Complete.								
West Belle Pass Headland Restoration	TERRE	LAFOU	469	27-Dec-96 A	10-Feb-98 A	15-Aug-98	\$4,854,102	\$6,367,625	131.2!	\$5,463,332
	Remarks:	We have reconstruction	We have received verbal au construction of the project.	authority from HQ	Counsel to acqui	ority from HQ Counsel to acquire oyster leases, for this project only, directly imp Construction cost increase approved at the January 16, 1998 Task Force meeting.	r this project only y 16, 1998 Task F	We have received verbal authority from HQ Counsel to acquire oyster leases, for this project only, directly impacted by the construction of the project. Construction cost increase approved at the January 16, 1998 Task Force meeting.	y the	
	Status:	Construction 1998. Design Construction	n start slipped gn had slipped n contract awa	Construction start slipped from January 23, 1998 to February 10, 1998 due to 1998. Design had slipped from July 30, 1997 to October 31, 1997 due to sur Construction contract awarded to T.L. James in January 1998 for \$4,122,711	1998 to February 77 to October 31, s in January 1998	Construction start slipped from January 23, 1998 to February 10, 1998 due to increased cost. Bids were opened Jan 1998. Design had slipped from July 30, 1997 to October 31, 1997 due to surveys of marsh buggy access problems. Construction contract awarded to T.L. James in January 1998 for \$4,122,711.	creased cost. Bid /s of marsh bugg)	Construction start slipped from January 23, 1998 to February 10, 1998 due to increased cost. Bids were opened January 9, 1998. Design had slipped from July 30, 1997 to October 31, 1997 due to surveys of marsh buggy access problems. Construction contract awarded to T.L. James in January 1998 for \$4,122,711.	.9 و بر	

CELMN-PM-M	COV	COASTAL WETLANI Project Status Sun	TLANDS P	LANNING, Report - Lo	ASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)	AND RESTOR PT. OF THE A	ATION ACT RMY (COE)			31-Mar-98 Page 5
PROJECT	BASIN	PARISH ACRES	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
L	Total Priority List 2	1 2	1,535				\$6.595,412	\$9,783,837	148.3	\$8,333,288
2 Project(s)	(\$									
2 Cost Sha	2 Cost Sharing Agreements Executed	s Executed				٥				
2 Construc	2 Construction Started									
1 Construc	1 Construction Completed									
0 Project(s	0 Project(s) Deferred/Deauthorized	thorized								
0 Unfunde	0 Unfunded Project(s)	•								

CELMN-PM-M	<b>/</b> 00	COASTAL WETLAND Project Status Sum	TLANDS P	LANNING, PI y Report - Lea	ROTECTION , d Agency: DE	STAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)	VTION ACT RMY (COE)			31-Mar-98 Page 6
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	* *	Actual Obligations/ Expenditures
Priority List 3										
Channel Armor Gap Crevasse	DELTA	PLAQ	936	13-Jan-97 A	22-Sep-97 A	02-Nov-97.A	\$808,397	\$889,914	110.1	\$511,223
	Remarks:	The Cost Sharing Age	aring Agreem	reement is being reviewed by L.A DNR.	wed by L.A DNR.					
		Cost increas	e is due to ado	litional project ma	ınagement costs, b	Cost increase is due to additional project management costs, by both Federal and Local Sponsor.	Local Sponsor.			
		Surveys identified a p Service reviewed thei US FWS requested a	ntified a pipeli ewed their per quested a modi	ne in the crevasse mit for the pipelir ification to the alij	area which would ne and determined gnment and only t	Surveys identified a pipeline in the crevasse area which would be negatively impacted by the project. US Fish & Wildlife Service reviewed their permit for the pipeline and determined that Shell Pipeline is required to lower it at their own cost. US FWS requested a modification to the alignment and only US FWS-owned lands should be involved.	acted by the projective is required to lowed should be invol	ct. US Fish & W. rer it at their own ( lved.	ildlife cost.	
	Status:	Complete.		٠						
MRGO Back Dike Marsh Protection	PONT	STBER	755	17-Jan-97 A	31-Aug-98	31-Oct-98	\$512,198	\$482,164	94.1	\$200,090
	Remarks:	Cost increase is due to included in the baselit condemnation. This a	e is due to add the baseline es on. This accou	litional project ma timate. Further, ints for the long p	nagement costs, e title research indi eriod between CS	Cost increase is due to additional project management costs, environmental investigations and local sponsor activities not included in the baseline estimate. Further, title research indicates that private ownership titles are unclear, requiring condemnation. This accounts for the long period between CSA execution and project construction.	tigations and local vnership titles are oject construction.	l sponsor activitie: unclear, requiring	s not	
	Status:	Scope of work greatly Project being re-evalu	rk greatly redu g re-evaluated	iced. Surveys tak Construction sta	en in December 1 art slipped from A	Scope of work greatly reduced. Surveys taken in December 1997; awaiting cost estimate for reduced scope of work. Project being re-evaluated. Construction start slipped from April 1998 to August 1998.	estimate for reduc t 1998.	ed scope of work.		

CI.LMN-PM-M	VO)	COASTAL WETLANI Project Status Sun	TLANDS PI tus Summary	LANNING, I y Report - Le	ASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)	AND RESTOR. T. OF THE AL	ATION ACT RMY (COE)			31-Mar-98 Page 7
PROJECT	BASIN	PARISH ACRES	ACRES	CSA	CSA Const Start Const Enc	Const End	Bascline	Baseline Current %	*	Actual Obligations/ Expenditures
Pass-a-Loutre Crevasse	DELTA	PLAQ	0				\$2.857,790	\$10,918	3.7	\$108,830
	Remarks:	Two pipelines and to million. LA DNR a there are no more sucost-savings could be reduced the relocation.	nes and two por A DNR asked II o more suitable s could be achi relocation cosi	Two pipelines and two power poles are in th million. LA DNR asked that the Corps inverthere are no more suitable locations for the cost-savings could be achieved. Reducing it reduced the relocation cost only marginally.	Two pipelines and two power poles are in the area of the crevasse, increasing relocation costs by approximately \$2.15 million. LA DNR asked that the Corps investigate alternative locations to avoid or minimize impacts to the pipelines, but there are no more suitable locations for the cut. The Corps has also reviewed the design to determine whether relocations cost-savings could be achieved. Reducing the bottom width of the crevasse from 430 feet as originally proposed to 200 feet reduced the relocation cost only marginally.	asse, increasing re locations to avoid s also reviewed the f the crevasse fron	elocation costs by or minimize imps e design to determ n 430 feet as origi	approximately \$2 acts to the pipelinine whether relocably proposed to	.15 es, but ations 200 feet	
	Status:	A draft mei Task Force	morandum date to deauthorize	d December 5, at the project. CO	A draft memorandum dated December 5, 1997 was sent to the CWPPRA Technical Committee Chairman requesting the Task Force to deauthorize the project. COE requested deauthorization at the January 16, 1998 Task Force meeting.	CWPPRA Techni orization at the Jan	ical Committee Ch wary 16, 1998 Ta	nairman requestingsk sk Force meeting.	g the	

COC. 1014
3 Project(s)

- 2 Cost Sharing Agreements Executed
  - 1 Construction Started
- 1 Construction Completed
- Project(s) Deferred/Deauthorized
  - 0 Unfunded Project(s)

CELMN-PM-M	COV	STAL WE'	II.ANDS PI us Summary	ANNING, PI Report - Lea	ROTECTION A	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)	THON ACT MY (COE)			31-Mar-98 Page 8
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Bascline	Baseline Current %	*	Obligations/ Expenditures
Priority List 4										
Grand Bay Crevasse	BRET	PLAQ	0				\$2,468,908	\$52,154	2.1	\$55,101
	Remarks:	The major la sedimentation	andowner has i	ndicated non-sur mpacting oil and	port of the projec I gas interests with	The major landowner has indicated non-support of the project and has withheld ROE because of concern about sedimentation negatively impacting oil and gas interests within the deposition area.	ROE because of coea.	oncern about		
	Status:	A draft men Task Force	norandum datec to deauthorize (	1 December 5, 19 the project. COF	997 was sent to the Erequested deauth	A draft memorandum dated December 5, 1997 was sent to the CWPPRA Technical Committee Chairman requesting the Task Force to deauthorize the project. COE requested deauthorization at the January 16, 1998 Task Force meeting.	al Committee Ch. 1ary 16, 1998 Tasl	airman requestin k Force meeting	g the	
Hopper Dredge Demo	DELTA	PLAQ	0	30-Jun-97 A	30-Apr-98	31-May-98	\$300,000	\$375,000	125.0	\$21,559
	Remarks:	LA DNR requested get close enough to pumpout of materia miles 2.95 and 3.2	quested that the ough to the cre material from to material from to do 3.2 BHP.	hoppers dump I vasses to avoid d he hopper into a	the material in cre Iropping the mater disposal area loca	LA DNR requested that the hoppers dump the material in crevasses, but there are concerns that the hopper dredges cannot get close enough to the crevasses to avoid dropping the material in the navigation channel. Current plan involves the pumpout of material from the hopper into a disposal area located on the left descending bank or in Southwest Pass between miles 2.95 and 3.2 BHP.	concerns that the channel. Currer ending bank or in	hopper dredges nt plan involves t Southwest Pass	cannot the between	
	Status:	Awaiting award by slipped from Janua	vard by Operati	ons Division. Is 998 to April 30,	Awaiting award by Operations Division. Is an option on O&M lease slipped from January 31, 1998 to April 30, 1998, dependent on river.	Operations Division. Is an option on O&M lease hopper dredge contract 98-9. Construction start ry 31, 1998 to April 30, 1998, dependent on river.	ige contract 98-9.	Construction s	tart	

CELMN-PM-M		ASTAL WE Project Sta	TILANDS PI	ANNING,   Report - Le	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT, OF THE ARMY (COE)	AND RESTOR PT. OF THE A	ATION ACT RMY (COE)			31-Mar-98 Page 9
PROJECT	BASIN	PARISH ACRES	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	* *	Actual Obligations/ Expenditures
	Total Priority List 4	st 4	0				\$2,768,908	\$427,154	15.4	\$76,660
CI	2 Project(s)									617.679
-	Cost Sharing Agreements Executed	ts Executed								
0	0 Construction Started									
0	0 Construction Completed	_								
-	Project(s) Deferred/Deauthorized	uthorized								
C	0 Unfunded Project(s)									٠

CELMN-PM-M	/OJ	NSTAL WE Project Sta	TLANDS F	PLÁNNING, I V Report - Le	COASTAL WETLANDS PLÁNNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT, OF THE ARMY (COE)	AND RESTOR	ATION ACT			31-Mar-98 Page 10
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	* %	Actual Obligations/ Expenditures
Priority List 5							:			
Bayou Chevce Shoreline Protection	PONT	ORL	661	96-unf-10	31-Aug-98	30-Nov-98	\$2,890,821	\$2,555,029	88. 4.	\$215,714
	Remarks:	Revised prodike tying i	Revised project consists of constructin dike tying into and extending an existi marsh will be protected by the project	of constructing a ding an existing t y the project.	Revised project consists of constructing a 2,870-foot rock dike across the mouth of the north cove and a 2,820-foot rock dike tying into and extending an existing USFWS rock dike, across the south cove. Approximately 75 acres of brackish marsh will be protected by the project.	e across the mouth across the south co	of the north cove a ve. Approximately	and a 2,820-foot 775 acres of brac	rock kish	
	Status:									
T0	Total Priority List 5	1.5	661				\$2,890,821	\$2,555,029	88.4	\$215,714
l Project(s)	_									
0 Cost Shan	0 Cost Sharing Agreements Executed	s Executed								
0 Construction Started	ion Started									
0 Construct	0 Construction Completed									
0 Project(s)	0 Project(s) Deferred/Deauthorized	ithorized								
0 Unfunded Project(s)	Project(s)									

CELMN-PM-M	COA	COASTAL WETLA Project Status S	TLANDS P	LANNING, P. Report - Le	NSTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)	AND RESTOR. PT. OF THE A	ATION ACT RMY (COE)			31-Mar-98 Page 11
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
Priority List 6										
Avoca Island (incr 1)	TERRE	STMRY	0				\$6,438,400	\$49,689	8.0	\$49,689
	Remarks:	A draft med deauthorize	morandum date the project. C	ed December 5, 1 OE requested de	A draft memorandum dated December 5, 1997 was sent to the Technical Committee Chairman requesting the Task Force to deauthorize the project. COE requested deauthorization at the January 16, 1998 Task Force meeting.	e Technical Comm e January 16, 1998	ittee Chairman req Task Force meetii	luesting the Task ng.	Force to	<b>100.</b>
	Status:	COE reque	sted deauthoriz	ation of project	COE requested deauthorization of project at the January 16, 1998 Task Force meeting.	1998 Task Force m	leeting.			
Dustpan/Cutterhead Dredge Demo	DELTA	PLAQ	0	86-unf-10	15-Jun-98	30-Aug-98	000'009'1\$	\$1,600,000	100.0	\$22,704
	Remarks:									,
	Status:	Construction drafted and	n start slipped awaiting new	Construction start slipped from March 30, 1998 to drafted and awaiting new model approval by 11Q	Construction start slipped from March 30, 1998 to June 15, 1998 to allow for adequate shoaling material. CSA to be drafted and awaiting new model approval by IIQ.	998 to allow for ad	equate shoaling m	aterial. CSA to l	pe Pe	

CELMN-PM-M	COV	STAL WE Project Sta	TLANDS PI tus Summary	ANNING, PI	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)	NID RESTOR, T. OF THE A	ATION ACT RMY (COE)			31-Mar-98 Page 12
PROJECT	BASIN	PARISH ACRES	ACRES	CSA	CSA CONST Start CONST Ein	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
Marsh Island Hydrologic Restoration	ТЕСНЕ	IBERI	<b>**</b>	86-Inf-10	30-Sep-98	29-Jan-99	\$4,094,900	\$4,094,900	100.0	\$45.998
,	Remarks:						•			666.CH4
	Status:	CSA execution	tion will requir	e new model CS.	will require new model CSA: not enough decian to base cost on for dealing CSA. Once 4 month defact in	un to bace cost on	for deaftion CCA	Ough A month	. <u>!</u>	

V. Over 4-month delay in	
us: CSA execution will require new model CSA; not enough design to base cost on for drafting CSA.	right of entry from DNR; received week of January 5, 1998.
2	

Total Priority List 6	408	\$12,133,300	\$5,744,589	47.3	\$118,392
3 Project(s)				•	
0 Cost Sharing Agreements Executed	9				
0 Construction Started					
0 Construction Completed					
Project(s) Deferred/Deauthorized					
0 Unfunded Project(s)					

CELMN-PM-M	VOO	STAL WE Project Sta	TLANDS PI	ANNING, PR Report - Leac	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)	ND RESTOR/ F. OF THE AR	NTION ACT RMY (COE)			31-Mar-98 Page 13
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	* *	Actual Obligations/ Expenditures
Priority List 7										
Cut Off Bayou Marsh Restoration	PONT	ORL	226				\$6.510.200	\$6,510,200	100.0	0\$
	Remarks:	This project was	t was approved	as an unfunded p	approved as an unfunded project on Priority List 7.	ist 7.				2
	Status:	Unfunded.								
Lake Borgne Shore Protection East & West	PONT	STBER	131				\$15,133,400	\$15,133,400	0.001	9, 2
of Shell Beach	Remarks:	This project was		as an unfunded pı	approved as an unfunded project on Priority List 7.	ist 7.				3

Status: Unfunded.

CELMN-PM-M	COV	STAL WE Project Sta	TLANDS PL	ANNING, PI Report - Lea	ROTECTION / d Agency: DEI	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)	ATION ACT RMY (COE)			31-Mar-98 Page 14
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Bascline	Baseline Current %	*	Actual Obligations/ Expenditures
Sabine Refuge Marsh Creation	CALC	CAMER	238				89,391,600	009'16£'6\$	100.0	S 5
	Remarks:	This project	I was approved a	is an unfunded p	This project was approved as an unfunded project on Priority List 7.	List 7.	٠.			<b>}</b>
	Status:	Unfunded.				•				
Wine Island Eastward	TERRE	TERRE	37				\$1.276.100	\$1.276.100	0 001	Ş
Expansion	Remarks:	This project	was approved a	s an unfunded p	This project was approved as an unfunded project on Priority List 7.	List 7.				S 05
	Status:	Unfunded.								
	Total Priority List 7	7	632			·	\$32,311,300	\$32,311,300	100.0	80

4 Project(s)

0 Project(s) Deferred/Deauthorized

4 Unfunded Project(s)

CELMN-PM-M	COV	STAL WE roject Stat	TLANDS P. tus Summary	LANNING, P y Report - Les	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)	AND RESTOR T. OF THE A	ATION ACT			31-Mar-98 Page 15
PROJECT	BASIN	BASIN PARISH ACRES	ACRES	CSA	CSA Const Start Const End	Const End	Baseline	Baseline Current %	. %	Actual Obligations/ Expenditures
Total DEPT. OF THE ARMY, CORPS OF ENGINEERS	MY, CORPS O	<u></u>	14,998				\$77,201,750	\$77,201,750 \$76,454,543	0.06	99.0 \$16,332,832

## 20 Project(s)

- 9 Cost Sharing Agreements Executed
- 7 Construction Started
- 5 Construction Completed
- 3 Project(s) Deferred/Deauthorized
- 4 Unfunded Project(s)

- 1. Expenditures based on Corps of Engineers financial data.
  2. Date codes: A = Actual date = Behind schedule
  3. Percent codes: ! = 125% of baseline estimate exceeded

CELMN-PM-M	COA Project Statt	COASTAL WETLANI Status Summary Report	TLANDS P	LANNING, P	ROTECTION	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)	VTION ACT TION AGENC	Y (EPA)		31-Mar-98 Page 16
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Bascline Current %	· °	Actual Obligations/ Expenditures
Lead Agency:	Lead Agency: ENVIRONMENTAL PROTECTION	AL PROTE		AGENCY, REGION 6	9 NO		·			
Priority List	Priority List Conservation Plan						·			
State of Louisiana Wetlands Conservation	ALL	COAST	0	13-Jun-95 A	03-Jul-95 A	21-Nov-97 A	\$238,871	\$238,871	100.0	\$179,153
Plan	Remarks:	The date the MIPR v date for reporting pu	e MIPR was issu oorling purposes.	sued to obligate t s.	he Federal funds f	was issued to obligate the Federal funds for the development of the plan is used as the construction start irposes.	of the plan is used	as the construct	ion start	707'5714
	Status:	Complete.								
	Total Priority List Cons Plan	Cons Plan	0				\$238,871	\$238,871	100.0	\$179,153
- P	Project(s)									
ў -	Cost Sharing Agreements Executed	Executed								
у -	Construction Started									
ა -	Construction Completed									
0 Pr	0 Project(s) Deferred/Deauthorized	horized								
0 O	0 Unfunded Project(s)									

CELMN-PM-M	COASTAL WETLAND Project Status Summary Report	STAL WES		COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)	NOTECTION	AND RESTOR ITAL PROTES	ATION ACT	Y (EPA)		31-Mar-98 Page 17
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Bascline	Baseline Current %	*	Actual Obligations/ Expenditures
Priority List 1							·* •			
Isles Demieres (Phase 0) (East Island)	TERRE	TERRE	٥	17-Apr-93 A	16-Jan-98 A	31-Aug-98	\$6,345,468	\$8,751,838	137.9!	\$6,530,737
	Remarks:	This phase of the Isle priority list 2 project. the January 16, 1998	<u>~</u>	This phase of the Isles Dernieres restoration project is being combined with Isles Dernieres, Phase I (Trinity Island), a priority list 2 project. Additional funds to cover the increased construction cost on lowest bid received were approved at the January 16, 1998 Task Force meeting. A revised Cooperative Agreement is in preparation.	project is being c cover the increase A revised Cooper	ombined with 1ste ed construction co- ative Agreement	is Dernieres, Phase st on lowest bid receis in preparation.	l (Trinity Island) eived were appro	, a ived at	
	Status:	Construction start wa Contractor is to prov Hydraulic dredging b	n start was Ja is to provide Iredging bega	Construction start was January 16, 1998. Potential completion of dredging activities on East Island is end of May 1998. Contractor is to provide revised schedule as soon as possible. Containment dikes have been constructed by bucket dredge. Hydraulic dredging began January 23, 1998.	otential completio soon as possible.	n of dredging acti Containment dik	vities on East Islandes es have been constr	l is end of May 1 ucted by bucket	998. dredge.	
<b>+</b>	Total Priority List	_	đ	-			\$6,345,468	\$8,751,838	137.9	\$6,530,737
l Project(s)										
1 Cost Sha	Cost Sharing Agreements Executed	Executed								
l Construc	Construction Started									
0 Construc	0 Construction Completed									
0 Project(s	0 Project(s) Deferred/Deauthorized	horized								
0 Unfunded Project(s)	d Project(s)									

PROJECT BA	BASIN	PARISH ACRES	ACRES	CSA	CSA Const Start Const En	Const End	Bascline	Baseline Current 9	*	Actual Obligations/ Expenditures
Priority List 2				,			,			
Isles Demieres (Phase 1) (Trinity Island)	TERRE	TERRE	01	17-Apr-93 A	27-Jan-98 A	30-Nov-98	\$6,907,897	\$11,949,173	173.0!	\$9,062,629
Rem	Remarks:	Costs have if	increased due to er the increase	o construction bid d project cost wei	ls significantly gr re approved at the	Costs have increased due to construction bids significantly greater than projected in plans and specifi funds to cover the increased project cost were approved at the January 16, 1998 Task Force meeting.	d in plans and spec Task Force meetir	Costs have increased due to construction bids significantly greater than projected in plans and specifications. Additional funds to cover the increased project cost were approved at the January 16, 1998 Task Force meeting.	onal	\$333,703
S	Status:	The 30' hyd Trinity Islan	raulic dredge, i	he Tom Jones, m Construction of o	obilized at East Is containment dikes	The 30' hydraulic dredge, the Tom Jones, mobilized at East Island on about January 27, 1998 and Trinity Island end of May. Construction of containment dikes by bucket dredge has commenced.	tary 27, 1998 and has commenced.	The 30' hydraulic dredge, the Tom Jones, mobilized at East Island on about January 27, 1998 and is expected to move to Trinity Island end of May. Construction of containment dikes by bucket dredge has commenced.	e to	

1 Cost Sharing Agreements Executed

l Project(s)

0 Project(s) Deferred/Deauthorized

0 Unfunded Project(s)

0 Construction Completed 1 Construction Started

CEI.MN-PM-M	COA Project Statu	STAL WE:	FLANDS F	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)	KOTTECTION A	AND RESTORA	ATION ACT	Y (EPA)		31-Mar-98 Page 19
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Bascline	Baseline Current %	. %	Actual Obligations/ Expenditures
Priority List 3										
Red Mud Demo	PONT	STJON	0	03-Nov-94 A	08-Jul-96 A		\$350,000	\$480,500	137.3!	\$367,493
	Remarks:	Bids for constructi	nstruction wer	ion were opened on January 31, 1996. Project construction started July 8, 1996.	ry 31, 1996. Proj	ject construction st	arted July 8, 1996.			
	Status:	Facility construction planting occurred, summer 1998.	struction is escurred, and po	Facility construction is essentially complete; project on hold pending resolution of cell contamination by saltwater before planting occurred, and possible change to freshwater marsh demonstration. Resolution of these concerns is expected by summer 1998.	; project on hold p eshwater marsh d	ending resolution emonstration. Res	of cell contaminati olution of these co	on by saltwater l ncerns is expecte	oefore d by	
Whiskey Island Restoration (Phase 2)	TERRE	TERRE	1,239	06-Apr-95 A	13-Feb-98 A	31-Aug-98	\$4,844,274	\$7,863,363	162.3 !	\$5,956,103 \$54,046
	Remarks:	At the January 16, lowest bid received	iary 16, 1998 eceived.	At the January 16, 1998 meeting, the Task Force approved additional funds to cover the increased construction cost on lowest bid received.	Force approved ad	dditional funds to c	over the increased	construction cos	st on	

Work was initiated on February 13, 1998. Dredging may be completed by the end of May 1998.

Status:

	Project Statu	Summar Summar	J. L.ANDS F y Report - L.	LANNING, 1 cad Agency:	COASTAL WELLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)	AND RESTOR ITAL PROTEC	ATION ACT TION AGEN	Y (EPA)		31-Mar-98 Page 20
PROJECT	BASIN	PARISH ACRE	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	* *	Actual Obligations/ Expenditures
	Total Priority List	3	1,239	:			\$5,194,274	\$8,343,863	9:091	\$8,343,863 160.6 \$6,323,596 \$340,669
2 Project(s)	cı(s)						٠.			•
2 Cost 5	2 Cost Sharing Agreements Executed	S Executed								
2 Const	2 Construction Started									
0 Const	0 Construction Completed									
0 Projec	0 Project(s) Deferred/Deauthorized	thorized								
0 Unfin	0 Unfinded Projectivs)									

PROJECT BASIN PARISII  Priority List 4  Compost Demo CALC CAMER  Remarks: Engineering project cons adequate am Status: Unschedulec compost.  Total Priority List 4	H ACRES	•	SCHEDALES		53 ******	****** ESTIMATES ******		
ist 4  CALC Remarks:  Status:  Total Priority List  Project(s)		CSA	Const Start	Const End	Baseline	Current	*	Actual Obligations/ Expenditures
CAL.C Remarks: Status: Total Priority List Project(s)								
Status: Status:	0	22-Jul-96 A			\$370,594	\$380,594	102.7	\$286,199
Status:	ering/design prop construction start le amount of com	Engineering/design proposals were received Septembe project construction start and completion is unschedule adequate amount of compost, possibly 6 to 12 months.	Engineering/design proposals were received September 6, 1996. Project location has changed from the original. The project construction start and completion is unscheduled. The project schedule is delayed until Entergy can collect an adequate amount of compost, possibly 6 to 12 months.	Project locati roject schedule i	on has changed fro is delayed until Ent	om the original. tergy can collect	The	
Total Priority List 4	duled. The scheit.	dule is delayed, app	Unscheduled. The schedule is delayed, approximately 6 to 12 months, until Entergy can collect an adequate amount of compost.	nonths, until En	tergy can collect at	n adequate amou	o Jur	
l Project(s)	0				\$370,594	\$380,594	102.7	\$286.199
Cost Sharing Agreements Executed	70							
0 Construction Started								
0 Construction Completed								
0 Project(s) Deferred/Deauthorized								
0 Unfunded Project(s)								

W.W. LWIN	COASTAL WET Project Status Summary	COASTAL WETI Status Summary I	TLANDS y Report -	LANDS PLANNING, PROTECTION AND RESTORATION ACT Report - Lead Agency: LINVIRONMENTAL PROTECTION AGENCY (EPA)	RESTORATION ACT PROTECTION AGEN	ICY (EPA)	31-Mar-98 Page 22
PROJECT	BASIN	PARISH	ACRES	CSA Const Start		ESTIMATES	Actual
Priority List S					Garan and Baseline	Current %	Expenditures
Bayou Lafourche Siphon	TERRE	ASCEN	42. 80.	19-Feb-97 A	\$16,987,000	\$16,987,000	<b>604.1</b> 606
	Remarks:	Priority List 5 authous authorized \$8,000,000,000,000,000,000,000,000,000,0	9 X	authorized funding in the amount of \$1,000,000 for the FY 96 Phase I of this project. Priority List 6 000,000 for the FY 97 Phase 2 of this project. In FY 98, Priority List 7 authorized \$7,987,000, for a project 5,987,000. Priority List 8 is scheduled to fund \$7,500,000. The total project will cost \$24,487,000 if fully The public has been invulved in development of the scope of the first phase in carrying out this project if Work has been provided to the project mailing written comments. A Responsiveness Summary and if Work has been provided to the project mailing list of 600. Several alternatives for diversion of freshwater lated.	FY 96 Phase I of this project.  9. Priority List 7 authorized.  100. The total project will cite scope of the first phase in then comments. A Responsition. Several alternatives for	ct. Priority List 6 \$7,987,000, for a project cost \$24,487,000 if fully n Carrying out this project veness Summary and r diversion of freshwater	\$516,506
	Status:	The Cost Sharin	iring Agreem	IB Agreement (CSA) was executed February 19, 1997. Draft report is proposed for May 1908	Draft report is proposed for		
To	Total Priority List S	5	428				

\$967,500 \$516,506

\$16,987,000 \$16,987,000 100.0

1 Cost Sharing Agreements Executed

1 Project(s)

0 Project(s) Deferred/Deauthorized

0 Unfunded Project(s)

0 Construction Completed 0 Construction Started

CEI.MN-PM-M	VOS	STAL WE	IJ SONVIL	NNNNC.	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT	NND RESTOR	ATION ACT			31.Mar-98
	Project Statu	us Summar	y Report - La	ad Agency:	ENVIRONMEN	TAL PROTEC	Project Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)	Y (EPA)		Page 23
	•				••••••• 3:7 HREHEJS ••••••	•		••••••• ECTIMATE: •••••••	•	Actual Oblinations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Baseline	Current	*	Expenditures
Priority List 6							: <sub>1</sub>			
Bayou Bocuf/Verret Basin, Incr 1	Terre	STMAR	0				\$150,000	S	0.0	\$112,500
	Remarks:	This was a \$250,000; a dated Nove	3-phased project and Priority List ember 18, 1997,	tt. Priority List 18 was scheduk EPA notified th	6 authorized fundir ed to fund \$100,006 re Technical Comm	g of \$150,000; P. Total project co	This was a 3-phased project. Priority List 6 authorized funding of \$150,000; Priority List 7 was scheduled to fund \$250,000; and Priority List 8 was scheduled to fund \$100,000. Total project cost was estimated to be \$500,000. By letter dated November 18, 1997, EPA notified the Technical Committee that they and LA DNR agree to deauthorize the project.	heduled to fun be \$500,000. I deauthorize the	d By lener project	
	Status:	EPA reque	sted deauthorizz	ntion at the Janu	EPA requested deauthorization at the January 16, 1998 Task Force meeting.	orce meeting.				
	Total Priority List 6	9	•				\$150,000	2	0.0	\$112.500
l Project(s)	(S)									
O Cost Si	0 Cost Sharing Agreements Executed	1s Executed								
0 Constr	0 Construction Started									
0 Constr	0 Construction Completed	_								
l Project	Project(s) Deferred/Deauthorized	uthorized								
O Unferi	O Unfunded Project(s)									

:					******** SETHICHIDS ************************************	• • • • • • • • • • • • • • • • • • • •	SH	ESTIMATES	•	Obligations/
PROJECT Priority List 7	BASIN	PARISH ACRES	ACRES	SS CS	Const Mart	Const End	Bascline	Current	%	Expenditures
Lake Pelto Dedicated	TERRE	TERRE	89				\$6.314,700	\$6,314,700	100.0	<b>9</b>
Closure	Remarks:	This projec	t was approved a	is an unfunded	This project was approved as an unfunded project on Priority List 7.	List 7.				•
	Status:	Unfunded.								
	Total Priority List 7	7	89				\$6,314,700	\$6,314,700	0.001	\$0

1 Project(s)

0 Project(s) Deferred/Deauthorized

Unfunded Project(s)

CLI MN-PM-M	COAST	IAL WE	COASTAL WETLANDS P		PLANNING, PROTECTION AND RESTORATION ACT	AND RESTOR	ATION ACT			31-Mar-98
	Project Status Summary Report	Summary	Report - I	.cad Agency:	- Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)	TIAL PROTE	CITON AGENC	Y (EPA)		Page 25
PROJECT	BASIN	PARISH ACRES	ACRES	CSA	CSA Const Start Const En	CONSTRUCTOR CONSTRUCTOR	Bascline	Baseline Current %	*	Obligations/ Expenditures
ENVIRONMENTAL PAGENCY, REGION 6	Total ENVIRONMENTAL PROTECTION AGENCY, REGION 6		1,854				\$42,508,804	\$52,966,039 124.6 \$23,462,315 \$1,629,649	124.6	\$23,462,315

9 Project(s)

7 Cost Sharing Agreements Executed

5 Construction Started

1 Construction Completed

1 Project(s) Deferred/Deauthorized

1 Unfunded Project(s)

CELMN-PM-M	COA	STAL WE	TLANDS P	LANNING, PH Report - Lead	ROTHCTION / Agency: DEPT	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (FWS)	ATION ACT ERIOR (FWS)			31-Mar-98 Page 26
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
Lead Agency: DEPT, OF THE INTERIOR, FISH & WILDLIFF SERVICE	r. OF THE IN	TERIOR,	FISH & WII	DLIFE SERV	/ICE		:			
Priority List 1							·			
Bayou Sauvage #1	PONT	ORL	1,550	17-Apr-93 A	01-Jun-95 A	30-May-96 A	\$1,657,708	\$1,598,612	96.4	\$1.078.880
	Remarks:	Project con	npleted May 30	), 1996. A dedica	ation ceremony wa	Project completed May 30, 1996. A dedication ceremony was held in mid-summer 1996.	mer 1996.			(C.C.)
	Status:	Complete.								
Cameron Creole Watershed Hydrologic	CALC	CAMER	487	17-Apr-93 A	01-Oct-96 A	28-Jan-97 A	\$660,460	\$775,974	117.5	\$430,821
Restoration	Remarks:									000,170,0
	Status:	Complete.								

CELMN-PM-M	COV	STAL WE	TLANDS P	L'ANNING, PE Report - Lead A	ROTTECTION A	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (FWS)	VITON ACT			31-Mar-98 Page 27
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
Cameron Prairie Refuse Shoreline	MERM	CAMER	247	17-Apr-93 A	19-May-94 A	09-Aug-94 A	\$1,177,668	\$1,490.074	126.5!	156'906\$
Protection	Remarks:					-	٠,			284,4484
	Status:	Complete.								
Sabine Wildlife Refuge Erosion Protection	CALC	CAMER	5,542	17-Apr-93 A	24-Oct-94 A	01-Mar-95 A	\$4,895,780	\$1,868,673	38.2	\$1,195,492
	Remarks:			•						107.14
	Status:	Complete.				·				
			į							
T <sub>0</sub>	Total Priority List	_	7,826				\$8,391,616	\$5,733,333	68.3	\$3,612,144
4 Project(s)										
4 Cost Shar	4 Cost Sharing Agreements Executed	Executed								
4 Construction Started	ion Started									
4 Construct 0 Project(s)	4 Construction Completed O Project(s) Deferred/Deauthorized	horized								
0 Unfunded Project(s)	Project(s)									

N. N. L. N. N. L. N. N. L. N. N. L.	20 E	voject Statu:	Summary Summary	Report - Lead	ROTECTION / Agency: DEPT	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (FWS)	ATION ACT ERIOR (FWS)			31-Mar-98 Page 28
PROJECT	BASIN	PARISH ACRES	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
Priority List 2	č							·		
Bayou Sauvage #2	PONT	ORL	1.281	30-Jun-94 A	15-Apr-96.A	28-May-97 A	\$1,452,035	\$1.700,121	117.1	\$1,027,731
	Remarks:	Construction accepted at	n was complet a final inspect	Construction was completed on March 18, 1997. Initial accepted at a final inspection conducted May 28, 1997.	1997. Initial probl by 28, 1997.	Construction was completed on March 18, 1997. Initial problems with the pumps were corrected, and the project was accepted at a final inspection conducted May 28, 1997.	os were corrected,	and the project w	/as	\$1.001.877
	Status:	Complete.								
	Total Priority List 2	2	1,281	,			\$1,452,035	\$1,700,121	117.1	\$1,027,731

l Project(s)

0 Project(s) Deferred/Deauthorized

0 Unfunded Project(s)

1 Construction Completed 1 Construction Started

\$1,027,731

CETMN-PM-M	COAS	STAL WE	TLANDS P	L'ANNING, P Report - Lead	ROTECTION Agency: DEPT	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT, OF THE INTERIOR (FWS	DASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (FWS)			31-Mar-98 Page 29
PROJECT	BASIN	PARISH ACRE	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
Priority List 3							<sub>1</sub>			
Sabine Refuge Structures (Hog Island)	CALC	CAMER	953	25-Oct-96 A	86-130-10	01-Jul-99	\$4,581,454	\$4,591,454	100.2	\$220,318
	Remarks:	The construction co options. A meeting projected to occur i May 1998.		ion date was revis on March 21, 199 1999. Geotechni	ced to accommoda 77 led to selection cal investigations	ic a State-requeste of the current desi have been complet	The construction completion date was revised to accommodate a State-requested review of alternative structure design options. A meeting held on March 21, 1997 led to selection of the current design option. Project completion is now projected to occur in July 1999. Geotechnical investigations have been completed. Design completion is scheduled for May 1998.	live structure des completion is no etion is schedulec	ign w d for	
	Status:	Geotechnical invest	al investigatio	ns are complete.	Design is schedule	igations are complete. Design is scheduled for completion in May 98.	n May 98.		,	
	Total Priority List 3	3	953				\$4,581,454	\$4,591,454	100.2	\$220,318

	Total Priority List 3	953	\$4,581,454	\$4,591,454 100.2	100.2	\$220,31
	l Project(s)					
	1 Cost Sharing Agreements Executed					
•	0 Construction Started					
_	0 Construction Completed					
•	0 Project(s) Deferred/Deauthorized					
J	0 Unfunded Project(s)					

				• • • • • • • • • • • • • • • • • • • •		•		3.12. 7 7 81.L.		Actual
PROJECT	BASIN	PARISH ACRES	ACRES	CSA	Const Start	Const End	Baseline	Baseline Current %	*	Obligations/ Expenditures
Priority List 5			:							
Grand Bayou / GIWW Freshwater Introduction	TERRE	LAFOU	1,609	31-Mar-98	01-Scp-99	28-Feb-00	\$5,135,468	\$7,935,468	154.5!	\$94,500 \$53,300
	Remarks:	The FWS, in consult the Cutoff Canal Striincorporating 16.000 three new water contand and authorize addition	in consultation with Canal Structure wor ng 16,000 acres of v vater control structu ze additional funds.	with residents, she would be at the Ps of wetlands loca fructures. Project innds.	rimpers, and agen read of Cutoff Car ted west of Grand implementation is	cy personnel, has and. That decision IBayou Canal with on hold pending a	The FWS, in consultation with residents, shrimpers, and agency personnel, has decided that the best site for installation of the Cutoff Canal Structure would be at the head of Cutoff Canal. That decision has prompted an investigation of incorporating 16,000 acres of wetlands located west of Grand Bayou Canal within the project area through the addition of three new water control structures. Project implementation is on hold pending a Task Force decision to amend the project and authorize additional funds.	st site for installa nvestigation of through the addi on to amend the j	tion of tion of project	
	Status:	The draft cost share modifications. LA require amending the until at least May 19	ost share agree ins. LA DNR i inding the cost t May 1998. C	The draft cost share agreement was accepted by L.A DNR. The FWS regional office a modifications. L.A DNR is now reviewing the modified agreement. The inclusion of a require amending the cost share agreement to reflect those additions, thereby delaying until at least May 1998. Other aspects of project implementation may also be delayed.	d by LA DNR. The modified agree to reflect those addict implemental	re FWS regional o ement. The inclusi ditions, thereby de ion may also be de	The draft cost share agreement was accepted by L.A. DNR. The FWS regional office approved that agreement with some modifications. L.A. DNR is now reviewing the modifical agreement. The inclusion of additional features and funding would require amending the cost share agreement to reflect those additions, thereby delaying execution of the cost share agreement until at least May 1998. Other aspects of project implementation may also be delayed.	agreement with atures and fundin f the cost share a	some ng would greement	
Tc	Total Priority List 5	5	1,609				\$5,135,468	\$7,935,468	154.5	\$94.500

1 Project(s)

0 Project(s) Deferred/Deauthorized

0 Unfunded Project(s)

CELMN-PM-M	COV	STAL WE	TLANDS F	L'ANNING, P Report - Lead	ROTECTION Agency: DEP	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (FWS)	ATTON ACT RIOR (FWS)			31-Mar-98 Page 31
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
Priority List 6										
Lake Boudreaux FW Introduction, Alt B	TERRE	TERRE	619	01-Aug-98	01-Aug-02	01-Aug-03	\$4,915,650	\$4,915,650	100.0	\$50.874
	Remarks:	In FY 97, Priority Priority List 8; for	riority List 6 a t 8; for a total	In FY 97, Priority List 6 authorized funding of \$4,915,650. Priority List 8; for a total project estimate of \$9,831,300.		An additional \$4.915,650 is scheduled to be authorized on	5,650 is scheduled	d to be authorized	eo .	•
	Status:	The FWS has cond alternatives exist whas determined that for the flood protect issues. The FWS has Caitlou and Petton. design can be compadraft cost sharing	as conducted p exist where la ned that the pr d protection sy FWS has cool Petton. Oppo be completed,	ucted preliminary land rights investinere land rights are presently obtain: the project will not adversely affect tion system can be acquired and beg as coordinated with the Corps of Eng Opportunities to combine efforts an eleted, all environmental work is con agreement and submitted it to DNR.	ights investigation cently obtainable. ersely affect their ired and begin de: Corps of Enginee ine efforts and red work is complete. dit to DNR.	The FWS has conducted preliminary land rights investigations for the outfall channel and determined that several channel alternatives exist where land rights are presently obtainable. With information provided by the FWS, Koch Pipeline, Inc., has determined that the project will not adversely affect their pipelines. The top priority task is to confirm that land rights for the flood protection system can be acquired and begin designing that system. DNR is scheduled to work on land rights issues. The FWS has coordinated with the Corps of Engineers regarding the Corps' maintenance dredging of Bayous Grand Caillou and Pelton. Opportunities to combine efforts and reduce project costs may exist provided sufficient engineering and design can be completed, all environmental work is completed, and the Corps' project is further delayed. FWS has prepared a draft cost sharing agreement and submitted it to DNR.	nnel and determin ovided by the FW priority task is to o DNR is schedule ps' maintenance d ny exist provided s oject is further del	ed that several change of that several change. S. Koch Pipeline confirm that land at to work on langer redging of Bayou ufficient engine layed. FWS has justed.	nannel , Inc., rights I rights ss Grand ring and	
Nutria Harvest for Wetland Restoration	TERRE	COAST		01-May-98			\$1,040,000	\$1,040,000	100.0	\$50,000
<b>Demo</b>	Remarks:	NMFS letter of S Department of Ni Wildlife Sercice. authorized \$640,(	r of September of Natural Re- cice. This is 640,000 in FY work will beg	15, 1997, with t sources, asked the a two-phased pro '98. Priority Lisi in on promotion o	NMFS letter of September 15, 1997, with the concurrence of the UDepartment of Natural Resources, asked that the Federal sponsorsh Wildlife Sercice. This is a two-phased project. In FY 97, Priority authorized \$640,000 in FY 98. Priority List 8 is scheduled to fund Preliminary work will begin on promotion of nutria meat overseas.	NMFS letter of September 15, 1997, with the concurrence of the US Fish and Wildlife Service and the Louisiana Department of Natural Resources, asked that the Federal sponsorship of this project be transferred to the US Fish and Wildlife Sercice. This is a two-phased project. In FY 97, Priority List 6 authorized \$400,000 for phase 1; Priority List 7 authorized \$640,000 in FY 98. Priority List 8 is scheduled to fund \$1,100,000. The total project will cost \$2,140,000.	ildlife Service and ect be transferred I ized \$400,000 for The total project w	Ithe Louisiana to the US Fish an phase 1; Priority iill cost \$2,140,0	id List 7 00.	
	Status:	Preliminary but will prob	work will beg aably not be co	Preliminary work will begin on promotion of ni but will probably not be complete until May 98	of nutria meat ove / 98.	Preliminary work will begin on promotion of nutria meat overseas. A cost sharing agreement is being written by LA INNR, but will probably not be complete until May 98.	g agreement is be	ing written by L/	DNR.	

M-MN-LWI-M	Pre	STAL WI: oject Status	LANDS PL Summary R	cport - Lead /	ROTH CTION A	AND RESTOR	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (FWS)			31-Mar-98 Page 32
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Bascline	Baseline Current %	. %	Actual Obligations/ Expenditures
	Total Priority List 6	9	619				\$5,955,650	\$5,955,650	0.001	\$100,874
2 Project(s)	ject(s)						٠.			
0 Cos	0 Cost Sharing Agreements Executed	Executed								
0 Con	0 Construction Started									
0 Cou	0 Construction Completed								,	
0 Proj	0 Project(s) Deferred/Deauthorized O Unfunded Project(s)	horized								
otal DEPT, OF THE INTEL	Total DEPT. OF THE INTERIOR, FISH & WILDLIFE SERVICE	<b>ચ્</b> ર	12,288				\$25,516,223	\$25,916,026	9.101	\$5,055,568
9 Project(s)	ject(s)									34,340,80
6 Cos	6 Cost Sharing Agreements Executed	Executed								
5 Con	5 Construction Started									
5 Con	5 Construction Completed									
0 Proj	0 Project(s) Deferred/Deauthorized	horized								
0 Unfi	0 Unfunded Project(s)									

Notes:

G-34

			•							•
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	• %	Actual Obligations/ Expenditures
Lead Agency: DEPT. OF COMMERCE, NATI	F. OF COMIN	IERCE, NA	TIONAL M	IARINE FISH	ONAL MARINE FISHERIES SERVICE	30	;			
Priority List 1										
Fourchon Hydrologic Restoration	TERRE	LAFOU	0				\$252,036	\$6,999	2.8	666'9 <b>\$</b>
	Remarks:	In a meeting or could be condu concerned that	g on October 7, nducted by the hat undesired C	, 1993, Port Four Port and they did Jovernment / gen	chon conveyed to h I not wish to see the cral public involve	In a meeting on October 7, 1993, Port Fourchon conveyed to NMFS personnel that any additional work in the project area could be conducted by the Port and they did not wish to see the project pursued because they question its benefits and are concerned that undesired Government / general public involvement would result after implementation.	at any additional ecause they quest after implemental	work in the proje tion its benefits ar tion.	ct area nd are	
		NMFS has rec 1994 meeting.	ecommended t B.	to the Task Force	that the project be	NMFS has recommended to the Task Force that the project be deauthorized and the Task Force concurred at the July 14, 1994 meeting.	he Task Force co	ncurred at the Jul	y 14.	
	Status:	Deauthorized.	Ď.							
Lower Bayou LaCache Hydrologic Restoration	Terre	TERRE	0	17-Apr-93 A			\$1,694,739	\$99,625	5.9	\$99,625
	Remarks:	In a public h	learing on Sept le two east-wes	rember 22, 1993, st connections bot	with landowners in ween Bayou Petit	In a public hearing on September 22, 1993, with landowners in the project area, users strenuously objected to the proposed closure of the two east-west connections between Bayou Petit Caillou and Bayou Terrebonne.	isers strenuously ( Terrebonne.	objected to the pr	pasodo	
		NMFS receive forwarded the	ived a letter fro ne letter to COI	d a letter from LA DNR, dated Febru etter to COE for Task Force approval	ed February 6, 199 approval.	NMFS received a letter from LA DNR, dated February 6, 1995, recommending deauthorization of the project. NMFS forwarded the letter to COE for Task Force approval.	deauthorization of	f the project. NM	IFS	

Status: Deauthorized.

	PA	oject Statu	Project Status Summary Report - Lead Agency: DEPT, OF COMMERCE (NMFS)	Report - Leac	1 Agency: DEP1	T. OF COMMI	Project Status Summary Report - Lead Agency: DEPT, OF COMMERCE (NMFS)			31-Mar-98 Page 3-1
PROJECT	BASIN	PARISH ACRES	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	* 8	Actual Obligations/
	Total Priority List	· -	0				\$1.946,775	\$106,625	\$ \$	\$106,625
. 6	2 Project(s)									\$106,625
-	I Cost Sharing Agreements Executed	Executed			,		•			
0	0 Construction Started									
0	0 Construction Completed									
2	2 Project(s) Deferred/Deauthorized	orized								
10	0 Unfunded Project(s)									

CELMN-PM-M	COV	STAL WE	TLANDS I	LANNING, PR Report - Lead	OTECTION Agency: DEPT	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)	TION ACT .CE (NMFS)			31-Mar-98 Page 35
PROJECT	BASIN	PARISH ACI	ACRES	CSA	CSA Const Start Const Ein	Const Find	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
Priority List 2										
Atchafalaya Sediment Delivery	ATCH	STMRY	2,232	01-Aug-94 A	25-Jan-98 A	21-Mar-98 A	\$907,810	\$2,051,040	225.9!	\$1,508,409
•	Remarks:	Project cos	increase was	approved by the Ta	ask Force at the Ja	Project cost increase was approved by the Task Force at the January 16, 1998 meeting.	ting.			796.7904
	Status:	Complete.								
Big Island Mining (Increment 1)	АТСН	STMRY	2,160	01-Aug-94 A	25-Jan-98 A	24-Nov-98	\$4,136,057	\$7,092,356	171.5!	\$5,293,495
	Remarks:	Project cost	increase was	approved by the Ta	isk Force at the Ja	Project cost increase was approved by the Task Force at the January 16, 1998 meeting.	ting.			100,200,00

Construction contract awarded and notice to proceed issued January 28, 1998. Construction underway and expect completion by November 24, 1998.

Status:

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CELMN-PM-M	COV	STAL WE	TLANDS F	LANNING, PE Report - Lead	Agency: DEP	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)	ATION ACT RCE (NMFS)			31-Mar-98 Page 36
PROJECT	BASIN	PARISH ACRES	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
Point Au Fer	TERRE	TERRE	375	01-Jan-94 A	01-Oct-95 A	08-May-97 A	\$1,069,589	\$1,631,707	152.6!	\$1,206,700
	Remarks:	Construction for the gas canals in Area 1 materials can be fou Task Force approve	on for the proje in Area I was an be found to approved proj	ect will be accomplicompleted Decem backfill the canal lect design change	lished in two phasber 22, 1995. Phi fronting the Gulfand project cost i	Construction for the project will be accomplished in two phases. Phase I construction on the wooden plugs in the oil and gas canals in Area I was completed December 22, 1995. Phase II construction in Area 2 has been delayed until suitable materials can be found to backfill the canal fronting the Gulf of Mexico. Phase II construction completed in May 1997. Task Force approved project design change and project cost increase at December 18, 1996 meeting.	iction on the wood in Area 2 has been I construction con it 18, 1996 meetin	len plugs in the o i delayed until sui npleted in May 19 ig.	il and itable 997.	
	Status:	Complete. Closing		operative agreeme	ent grant between	out cooperative agreement grant between NOAA and LA DNR.	<del>χ</del> .			

Total Priority List 2	4,767	\$6,113,456	\$10,775,103	176.3	\$8.008,604
3 Project(s)					
3 Cost Sharing Agreements Executed					
3 Construction Started					
2 Construction Completed					
0 Project(s) Deferred/Deauthorized					
0 Unfunded Project(s)					

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CELMN-PM-M	COV	NSTAL WE	TLANDS I	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)	ROTECTION Agency: DEP	AND RESTOR	RATION ACT ERCE (NMFS)			31-Mar-98 Page 37
PROJECT	BASIN	PARISH ACRES	ACRES	CSA	CSA Const Start Const End	Const End	•••••• E Baseline	Baseline Current %	* %	Actual Obligations/ Expenditures
Priority List 3							e 4.			
Bayou Perot / Bayou Rigolettes Marsh	BARA	JEFF	•	01-Mar-95 A			\$1,835,047	\$1,844,750	100.5	\$1,389,483
Restoration	Remarks:	A feasibility study of questionable. LA Ereconsider the projetal January 16, 1998 13	A feasibility study conducted by LA D questionable. LA DNR has indicated a reconsider the project with potential of January 16, 1998 Task Force meeting.	A feasibility study conducted by LA DNR indicated that possible wetlands benefits from construction of this project are questionable. LA DNR has indicated a willingness to deauthorize the project. In April 1996, LA DNR had asked to reconsider the project with potential of combining this with two other projects in the watershed. Project deauthorized at January 16, 1998 Task Force meeting.	ndicated that poss ingness to deauth bining this with t	ible wetlands bene orize the project. wo other projects i	efits from construc In April 1996, 1.A n the watershed. I	tion of this project DNR had asked t Project deauthorize	l are o :d at	<b>51</b> ,292,658
	Status:	Deauthorized.	eq.							
East Timbalier Island Sediment Restoration	TERRE	LAFOU	1,013	01-Feb-95 A	96-unf-10	30-Apr-99	\$2,046,971	\$2,568,751	125.5!	\$2,173,516
_	Remarks:									\$1,465,209

Status: Design complete March 1998. EA and permitting underway. Construction is to be as scheduled.

CELIMIN-TAILED		Project Status Sur	Summary	Project Status Summary Report - Lead Agency: DEPT, OF COMMERCE (NMFS)	Agency: DEP	NND KESTOK F. OF COMME	ATION ACT RCE (NMFS)			31-Mar-98 Page 38 Actual
PROJECT	BASIN	PARISH	ACRES	CSA	CSA CONST Start Const Ein	Const End	Baseline	Baseline Current %	. %	Obligations/ Expenditures
Lake Chapcau Sediment &	TERRE	TERRE	808	01-Mar-95 A	86-Jn[-10	31-Mar-99	\$4,149,182	\$5,032,273	121.3	\$3,907,661
Hydrologic Restoration	Remarks:	Field surve	ying and geot	Field surveying and geotechnical data collection completed in May 1996.	ction completed in	May 1996.	•			
•	Status:	Land rights	acquired for	Land rights acquired for site of plug, but others related to the arca to be filled are in question.	ners related to the	arca to be filled ar	e in question.			
Lake Salvador Shore Protection Demo	BARA	STCHA	176	01-Mar-95 A	02-Jul-97 A	01-Jul-98	\$1,444,628	\$2,565,894	177.6!	\$1.924,421
	Remarks:									
	Status:	Phase I was Constructio	s completed S m is schedule	Phase I was completed Sep 97. Phase 2 is shoreline protection between Bayou desAllemnands and Lake Salvador. Construction is scheduled to begin in April 1998 and will complete July 1998.	shoreline protectio	n between Bayou ( iplete July 1998.	des Allemnands an	id Lake Salvador.		

Total Priority List 3	1,698	\$9,475,828	\$12,011,668 126.8 \$9,395,081	126.8	\$9,395,081
					\$6,868,118
4 Project(s)					
4 Cost Sharing Agreements Executed					

1 Project(s) Deferred/Deauthorized

0 Unfunded Project(s)

		•					(C HAIN) 3)			•
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
Priority List 4										
East Timbalier Island Sediment Restoration	TERRE	LAFOU	215	08-Jun-95 A	96-unf-10	30-Mar-99	\$5,752,404	\$7,188,005	125.0	\$6,098,279
Н2	Remarks:									\$72,474
	Status:	Design con	nplete March 1	Design complete March 1998. EA and permitting underway. Construction is to be as scheduled.	itting underway.	Construction is to	o be as scheduled.			
Eden Isles East Marsh Restoration	PONT	STTAM	0				\$5,018,968	\$1,380	0.0	\$41,347
	Remarks:	NMFS letter of Se Bids were placed t deauthorized at Ja	r of September blaced twice to ed at January 10	NMFS letter of September 8, 1997 requests the CWPPRA Task Force to move forward with deauthorization of this project. Bids were placed twice to acquire the land; both times they were rejected due to higher bids by private developers. Project deauthorized at January 16, 1998 Task Force meeting.	he CWPPRA Tas both times they w meeting.	ik Force to move f ere rejected due to	forward with deaut o higher bids by pr	horization of this ivate developers.	project. Project	

Status: Deauthorized.

Report - Le C'SA	STAL WETLANDS Ploject Status Summary   PARISH ACRES 4 215	COASTAL WETLANDS PI Project Status Summary I BASIN PARISH ACRES Total Priority List 4 215	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency, DEPT, OF COMMERCE (NMES)	Actual  CSA Const Start Const End Baseline Current % Expenditures	\$10,771,372 \$7,189,385 66.7 \$6,139,626 \$104,446
		COAS Pra BASIN Total Priority List	STAL WET	PARISH	4

- 2 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 1 Project(s) Deferred/Deauthorized
- 0 Unfunded Project(s)

PROJECT	BASIN	PARISH ACRI	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
Priority List 5							ī			
Little Vermilion Bay Sediment Trapping	ТЕСНЕ	VERMI	441	22-May-97 A	01-Sер-98	31-Jan-99	\$940,065	\$940,100	100.0	\$702,576
	Remarks:									\$5,695
	Status:	Minor construction anticipated due to e	ruction slip fi due to extensi	Minor construction slip from April 1998 to Septe anticipated due to extensive borings and analysis.	September 1998. dysis.	On schedule.	slip from April 1998 to September 1998. On schedule. Soils investigation on-going - longer than xtensive borings and analysis.	1-going - longer t	han	
Myrtle Grove Siphon	BARA	PLAQ	611,1	20-Mar-97 A	01-May-99	01-May-00	\$10,500,000	\$10,500,000	0.001	\$3,372,500
	Remarks:	The 5th Priority Lisauthorized funding i	rity List auth unding in the I cost is estim	t authorized funding in the an in the amount of \$6,000,000 octions the amount of \$15,000,000 octions to the \$15,000 octions to the \$15,000 octions to the \$15,000 octions to the \$15,000 octions to the \$10,00	he amount of \$4,5 000 for FY 97. P	000,000 for the Priority List 8 is	The 5th Priority List authorized funding in the amount of \$4,500,000 for the FY 96 Phase I of this project. Priority List 6 authorized funding in the amount of \$6,000,000 for FY 97. Priority List 8 is scheduled to fund the remaining \$5,000,000. Total project cost is estimated to be \$15,525,950.	project. Priority ie remaining \$5,0	' List 6 00,000.	<b>SI</b> 1,11 <b>3</b>

Early site investigations have been initiated. Landowner negotiations needed to obtain easements for rights-of-way for project corridor.

Status:

31-Mar-98 Page 42	Actual	Obligations/	Expenditures	\$4,075,076 \$23,472
		:	%	0.001
		ESTIMATES	Current	\$11,440,065 \$11,440,100 100.0
VIION ACT	KCI: (NMFS)	SHES	Baseline	\$11,440,065
ND RESTOR/	OF COMME	••••••	Const End	
COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT	Project Status Summary Report - Lead Agency: DEPT, OF COMMERCE: (NMFS)	SCHEDNIES	Const Start Const End	
LANNING, P	Report - Leac	•	CSA	
TLANDS P	ıs Summary		ACRES	1.560
STAL WE	oject Statu		BASIN PARISH ACRES	\$
COV	Ē		BASIN	Total Priority List
CEI.MN-PM-M			PROJECT	

2 Project(s)

2 Cost Sharing Agreements Executed

0 Construction Started

0 Construction Completed

0 Project(s) Deferred/Deauthorized

0 Unfunded Project(s)

	•	igeri Siaiu		Figure Status Sullillialy Inchair - Edau Agelicy. Distriction (CDMIMERCE); (NMFS)	Agency: Dim	I. Of COMIMI	KCE (NMES)			
PROJECT	BASIN	PARISH AC	ACRES	CSA	CSA CONST STATE CONST EN	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
Priority List 6										
Black Bayou Hydrologic Restoration	CALC	CAMER	3,594	15-Apr-98	01-Jan-99	31-Jul-99	\$6,316,800	\$6,316,806	0.001	\$5,681,403
	Remarks:									7084
	Status:	Cooperative	e Agreement i	Cooperative Agreement in NMFS Washington office. Award of cooperative agreement expected April 1998.	on office. Award	l of cooperative ag	reement expected	April 1998.		
Delta-Wide Crevasses	DELTA	PLAQ	2,386	15-Apr-98	01-Aug-98	96-12O-10	\$2,736,950	\$2,736,950	100.0	\$2,456,638
	Remarks:	In FY 97, P	riority List 6 2	In FY 97, Priority List 6 authorized funding of \$2,736,950 for Phase 1 of this 2-phased project. Priority List 8 is scheduled	of \$2,736,950 for	r Phase 1 of this 2-	phased project. Pr	riority List 8 is sc	heduled	0.04

Status: Cooperative Agreement in NMFS Washington office. Award of cooperative agreement expected April 1998.

CELMN-PM-M	COV	COASTAL WETLAN Project Status Sumi	TLANDS I	LANNING, P Report - Lead	ROTIECTION Agency: DEP	ASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)	ATION ACT RCE (NMFS)			31-Mar-98 Page 44
PROJECT	BASIN	BASIN PARISH ACRES	ACRES	CSA	CSA COUST Start Const En	Const Start Const End	Baseline	Baseline Current %	%	Actual Obligations/ Expenditures
Jaws Sediment Trapping	TECHE	STMAR	666.1	15-Apr-98	01-Jan-99	31-May-99	\$3,167,400	\$3,167,400	100.0	\$2,847,036
	Remarks:									

Status: Cooperative Agreement in NMFS Washington office. Cooperative agreement award expected April 1998.

Total Priority List 6	7,979	\$12,221,150	\$12,221,156	0.001	100.0 \$10,985,077 \$2,387
3 Project(s)					
0 Cost Sharing Agreements Executed					
0 Construction Started					
0 Construction Completed					
0 Project(s) Deferred/Deauthorized					
0 Unfunded Project(s)					

	Project Status Summary Report - Lead Agency: DEPT, OF COMMERCE (NMFS)	rojeci Stati	rs Summary	reject status summary report - Lead Agency: DEPT, OF COMMERCE (NMFS)	7. Keney. 1713	I. OF COMME.	KCI: (NMI-S)			Page 45
PROJECT	BASIN	PARISH ACRES	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Obligations/ Expenditures
Priority List 7							,			
Grand Terre Vegetative Plantings	BARA	JEFF	127	15-Jul-98	15-Mar-99	15-Apr-99	\$928,900	\$928,900	100.0	\$0
b	Remarks:									80
	Status:	Draft coope	crative agreeme	Draft cooperative agreement being developed.	<del>-</del> i					
Pecan Island Terracing	MERM	VERMI	442		15-Feb-00	15-Jun-00	\$2,185,900	\$2,185,900	100.0	20
	Remarks:									<b>Q</b>

Draft cooperative agreement being developed by I.A DNR.

CELMN-PM-M	COA	COASTAL WETLAND Project Status Summ	TLANDS P	LANNING, I Report - Lea	ASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)	AND RESTOR F. OF COMMI	ATION ACT RCE (NMFS)			31-Mar-98 Page 46
PROJECT	BASIN	PARISH	ACRES	C.SA	CSA CONST Start Const En	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
	Total Priority List	7	695				\$3,114,800	\$3,114,800	100.0	28.5
2 Pr	2 Project(s)						٠.			
ပိ	0 Cost Sharing Agreements Executed	Executed								
ပိ	0 Construction Started									
) 0	0 Construction Completed									
0 Pr	0 Project(s) Deferred/Deauthorized	horized								
in 0	0 Unfunded Project(s)									
Fotal DEPT, OF C MARINE FI:	Total DEPT. OF COMMERCE, NATIONAL MARINE FISHERIES SERVICE	AL	16,788				\$55,083,446	\$56,858,837	103.2	\$38,710,089 \$11,702,672
18 Pro	18 Project(s)									
ီ =	11 Cost Sharing Agreements Executed	Executed								
4 Co	4 Construction Started									
2 Co	2 Construction Completed									
4 Pr.	4 Project(s) Deferred/Deauthorized	horized								
0 Cm	0 Unfunded Project(s)									
Notes:										
1. Expenditur 2. Date codes:	1. Expenditures based on Corps of Engineers financial data. 2. Date codes: A = Actual date • = Behind schedule 3. Descar fooder: 1 = 1360, 500 miles	ngineers finar Behind sched	ncial data. fule							
J. FUICIII CUL	<ol> <li>refell codes: ! = 123% of baseline estimate exceeded</li> </ol>	ie estimate e	popeaax							

	Pro	ject Status	Summary 1	Report - Lead	Project Status Summary Report - Lead Agency: DEPT, OF AGRICULTURE (NRCS)	Project Status Summary Report - Lead Agency: DEPT, OF AGRICULTURE (NRC	TURE (NRCS			Page 47
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	. %	Actual Obligations/ Expenditures
Lead Agency:	Lead Agency: DEPT. OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE	ULTURE,	NATURAI	L RESOURCE	ES CONSERVA	TION SERVIC	=			
Priority List	_									
BA-2 GIWW to Clovelly Wetland	BARA	LAFOU	175	17-Apr-93 A	21-Apr-97 A	28-Aug-98	\$8,141,512	\$8,347,106	102.5	\$1,240,913
Restoration	Remarks:	The project to install me plug.	has been divi	ided into a numb r structures and i	The project has been divided into a number of smaller contracts in order to expedite implementation. The first contract was to install most of the weir structures and is complete. The second contract is to install bank protection, one weir and one plug.	cts in order to expe cond contract is to	dite implementati install bank protec	on. The first contri tion, one weir and	act was	1,037,489
		Contract 1: Contract 2: Contingency:	Begin: Begin:	I May 97 Com I Jun 98 Comp	Complete: 30 Nov 97 Complete: 28 Aug 98	\$ 646,691 \$2,826,968 \$ 765,575				
	Status:	The first construction Construction compl planning and some	nstruction cor n completion d some land r	on contract is complete ction of the second co land rights issues.	The first construction contract is complete. The second construction contract is expected to be advertised in May 1998. Construction completion of the second constrct slipped from February 1998 to August 1998 because of general project planning and some land rights issues.	truction contract is February 1998 to A	expected to be ad Lugust 1998 becau	vertised in May 19 ise of general proje	998. cct	
Vegetative Plantings Demo - Dewitt-	MERM	VERMI	312	17-Apr-93 A	11-Jul-94 A	26-Aug-94 A	\$191,003	\$79,448	41.6	\$79,448
Rollover	Remarks:	Sub-project	of the Vegeta	Sub-project of the Vegetative Plantings project	roject					\$/9,448

Status: Complete and deauthorized.

CELMN-PM-M	COA	COASTAL WETLANI Project Status Summi	TLANDS	PLANNING, PI Report - Lead A	ROTECTION /	OASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT, OF AGRICULTURE (NRCS)	VTION ACT TURE (NRCS)			31-Mar-98 Page 48
PROJECT	BASIN	PARISII	ACRES	CSA	CSA Const Start Const En	Const End	Bascline	Baseline Current %	%	Actual Obligations/ Expenditures
Vegetative Plantings Demo - Falzout Canal	TERRE	TERRE	54	17-Apr-93 A	30-Aug-96 A	30-Dec-96 A	\$144,561	\$180,296	124.7	\$118,532
<b>u</b>	Remarks:	Sub-project	l of the Veget	ative Plantings pro	ject. Wave-stillin	Sub-project of the Vegetative Plantings project. Wave-stilling devices are in place. Vegetative plantings are in place.	ice. Vegetalive pl	lantings are in pla	ace.	
	Status:	Complete.								
Vegetative Plantings Demo - Timbalier	TERRE	TERRE	691	17-Apr-93 A	15-Mar-95 A	30-Jul-96 A	\$372,589	\$411,602	110.5	\$333,019
Island	Remarks:	Sub-project	of the Vegeta	Sub-project of the Vegetative Plantings project.	ect.					710.06
		The contrac	t to install the	sand fences has t	een completed an	The contract to install the sand fences has been completed and the vegetation was planted during the summer of 1996.	s planted during t	the summer of 19	.966	
	Status:	Complete.								
Vegetative Plantings Demo - West Hackberry	CALC	CAMER	86	17-Apr-93 A	15-Apr-93 A	30-Mar-94 A	\$213,947	\$225,157	105.2	\$154,898
	Remarks:	Sub-project	of the Veget	Sub-project of the Vegetative Plantings project.	ect.					\$151,145

Status: Complete.

CELMN-PNI-M	J	NSTAL WE	TLANDS	PLANNING, 1 Report - Lead	PROTTECTION Agency: DEPT	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT, OF AGRICULTURE (NRC)	OASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT, OF AGRICULTURE (NRCS)			31-Mar-98 Page 49
PROJECT	BASIN	PARISI	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Actual Obligations/
	Total Priority List	- 1	808				\$9.003.612	60 711 600		Calmonator
								600'6 67'64	102.0	\$1.926.810 \$2.074.250
<b>₹</b>	5 Project(s)						•			
~	5 Cost Sharing Agreements Executed	s Executed								
~	5 Construction Started									
4	4 Construction Completed									
_	Project(s) Deferred/Deauthorized	thorized								
0	0 Unfunded Project(s)									

CLLMN-PM-M

CLI,MN-PM-M	COV	STAL WE	TLANDS I	LANNING, P.	ROTIFCTION	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)	ATION ACT TURE (NRCS			31-Mar-98 Page 50
PROJECT	BASIN	PARISH	ACRES	CSA	CSA CONTINUES CONTINUES	Const End	Baseline	Baseline Current **	*	Actual Obligations/ Expenditures
Priority List 2							·			
Brown Lake	CALC	CAMER	274	28-Mar-94 A	15-Jul-98	01-May-99	\$3,222,800	\$3,222,666	0.001	\$240,196
	Remarks:	Land rights may	may be a pro	be a problem holding up construction start.	onstruction start.					
	Status:	Contract aw use of COE	vard has been : dredged mate	delayed due prima rial, and the reloci	irity to the length ation of a pipeting	Contract award has been delayed due primarily to the length of time needed to complete the permitting process, beneficial use of COE dredged material, and the relucation of a pipeline. Contract award is expected in May 98.	omplete the permi expected in May	itting process, ben 98.	eficial	
Caernarvon Outfall Management	BRET	PLAQ	803	13-Oct-94 A	01-Oct-98	01-Sep-99	\$2,522,199	\$2,634,353	104.4	\$268,687
	Remarks:	NRCS correspon correspondence 1997, LA DNR deauthorization A meeting was a resolved.	espondence da ence of Decen NR had stated ition at July 19 was scheduled	ited September 30, ther 6, 1996 conculor 1 that problems mi 1997 Task Force me for July 22, 1997	, 1996 requested I irred with NRCS ght be able to be reting. Further d between NRCS,	NRCS correspondence dated September 30, 1996 requested DNR to evaluate project for possible deauthorization. DNR correspondence of December 6, 1996 concurred with NRCS to begin formal deauthorization of the project. As of July 1, 1997, LA DNR had stated that problems might be able to be resolved, and requested that NRCS not proceed with formal deauthorization at July 1997 Task Force meeting. Further discussion with primary landowner put deauthorization on hold. A meeting was scheduled for July 22, 1997 between NRCS, LA DNR and primary landowner to see if problems could be resolved.	oject for possible of thuthorization of the ssted that NRCS mary landowner put ary landowner to s	deauthorization. I e project. As of J ot proceed with fo t deauthorization ice if problems co	ONR July 1, ormal on hold. uld be	
	Status:	This project was construction sch		i proposed for deauthorization but was re edule will slip and the cost may change.	on but was referr may change.	proposed for deauthorization but was referred for revisions at the request of the landowners and DNR. The edule will slip and the cost may change.	he request of the l	andowners and D	NR. The	

	F.	Project Status Summary Report - Lead Agency: DEPT, OF AGRICULTURE (NRCS)	Summary			TO WILL	LICKI (NKC)	_		Page 51
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline ESTIMATES	*	Actual Obligations/ Expenditures
Freshwater Bayou	MERM	VERMI	1.604	17-Aug-94 A	29-Auk-94 A	30-Apr-98	\$2,770.093	\$2,780,100	100.4	\$1.273,095
	Remarks:	The project has cost savings. Cremoval. Option	has been exp s. Construction pation was exe	The project has been expedited in order to allow the us cost savings. Construction is included as an option in tremoval. Option was exercised on September 2, 1994.	allow the use of s a option in the Co ser 2, 1994.	tone removed from	The project has been expedited in order to allow the use of stone removed from the Wax Lake Outlet Weir at a substantial cost savings. Construction is included as an option in the Corps of Engineers contract for the Wax Lake Outlet Weir removal. Option was exercised on September 2, 1994.	let Weir at a subs Lake Outlet Wei	tantial	\$1.216.135
		The rock bank pinstalling water	nk protection ater control s	protection was Phase I of this project and was compleontrol structures to benefit the interior marsh area.	is project and was the interior mars	s completed on Jan h area.	The rock bank protection was Phase I of this project and was completed on January 26, 1995. Phase II will consist of installing water control structures to benefit the interior marsh area.	se II will consist (	٥	
	Status:	Construction complete.	n completion	slipped from Dec	97 to Apr 98. Ca	onstruction is bein <sub>t</sub>	Construction completion slipped from Dcc 97 to Apr 98. Construction is being done by landowner. Project almost complete.	r. Project almos	_	
Fritchie Marsh	PONT	STTAM	1,040	21-Fcb-95 A	30-Aug-98	01-Mar-99	\$3,048,389	\$2,875,475	94.3	\$248,557
	Remarks:	Delays in projec and local officia	oject construd Tcials express	tion start occurred led concerns about	l as a land owner drainage that req	ct construction start occurred as a land owner had changed his position regard Ils expressed concerns about drainage that required additional investigations.	Delays in project construction start occurred as a land owner had changed his position regarding prompting design changes, and local officials expressed concerns about drainage that required additional investigations.	ompting design c	hanges.	\$116.907

Delays in project construction start occurred because a landowner had changed his position, prompting design changes, and local officials expressed concerns about drainage that required additional investigations. The construction contract is expected to be awarded in time to start construction in August 1998. Land rights could be a problem but we don't know yet.

CITMN-PM-M	CO .	COASTAL WETLA Project Status Sum	TI.ANDS Summary	PLANNING, P Report - Lead /	ROTLICTION Agency: DEPT	OASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF ACRICULTURE (NRCS)	ATION ACT	æ		31-Mar-98 Page 52
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const Fin	Const Fnd	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
Hwy 384	CALC	CAMER	150	13-Oct-94 A	30-Aup.98	28-J:ch-09	\$700,717	\$756,562	1080	\$76.226
	Remarks:	Difference owner title	Difference of opinion between agenci owner title issues are not yet resolved	Iween agencies cor yet resolved.	ocerning impacts	Difference of opinion between agencies concerning impacts and benefits resulted in delays, and multiple, complex land- owner title issues are not yet resolved.	d in delays, and n	nultiple, complex	land-	0/5/64
	Status:	Construction start to be secured from delays, and multip 1998.	n start slipped d from one la multiple, com	from November and owner. Differe the political owner in the connection of the connec	1997 to August 19 ance of opinion be itle issues are not	Construction start slipped from November 1997 to August 1998 because of land rights issues. Written agreements remain to be secured from one land owner. Difference of opinion between agencies concerning impacts and benefits resulted in delays, and multiple, complex land-owner title issues are not yet resolved. Contract is expected to be advertised in June 1998.	l rights issues. W. ncerning impacts : tract is expected to	ritten agreements and benefits result o be advertised in	remain ted in June	
Jonathan Davis Wetland	BARA	JEFF	910	05-Jan-95 A	15-May-98	15-Nov-99	\$3,398,867	\$4,046,673	1.611	\$1,728.673
	Remarks:	The project will be contract will install		constructed in two contracts. The first contract w the bank protection and the remaining structures.	acts. The first co	constructed in two contracts. The first contract will install the majority of the structures. The second the bank protection and the remaining structures.	e majority of the	structures. The sc	puosa	\$277.515
	Status:	Construction start sl construct weir and p advertised in fall 98	start slipped ir and plugs v fall 98.	slipped from December 1997 to May 98 plugs was advertised in February 1998. 8.	997 to May 98 be ebruary 1998.	Construction start slipped from December 1997 to May 98 because of planning and design delays. First contract to construct weir and plugs was advertised in February 1998. Second contract is bank stabilization and will probably be advertised in fall 98.	and design delays. ank stabilization a	. First contract to and will probably	<b>e</b>	
Mud Lake	CALC	CAMER	1,520	24-Mar-94 A	01-Oct-95 A	15-Jun-96 A	\$2,903,635	\$2,807,225	7.96	\$1,476,279
	Remarks:	Bid opening control struct	was August 8 tures are insta	3, 1995 and contra illed and the veget	ict awarded to Cra ation installed in	Bid opening was August 8, 1995 and contract awarded to Crain Bros. Construction started in early October 1995. Water control structures are installed and the vegetation installed in the summer of 1996.	tion started in ear 86.	ly October 1995.	Water	\$1,356,267
	Status:	Complete.								

CEEMN-PM-M	COA! Proj	STAL WE	Summary I	PLANNING, PI Report - Lead A	ROTECTION .	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)	ATION ACT TURE (NRCS)	-		31-Mar-98 Page 53
PROJECT	BASIN	PARISH ACRES	ACRES	CSA	CSA Const Start Const En	Const End	Bascline	Baseline Current %	* %	Actual Obligations/ Expenditures
Vermilion Bay/Boston Canal	ТЕСНЕ	VERMI	378	24-Mar-94 A	13-Sep-94A	30-Nov-95 A	\$1,008,634	\$965,473	1.29	\$690,231
	Remarks:	The structu	ıral portion of	The structural portion of the project - shoreline protection - is complete.	line protection - is	s complete.				
		The vegeta	tive portion of	The vegetative portion of the project is complete.	plete.					
	Status:	Complete.								
	Total Priority List 2	2	6.278				\$19,575,334	\$20,088,527	102.6	\$6,001,943
8 Project(s)	(s)									
8 Cost Sh	8 Cost Sharing Agreements Executed	Executed								
3 Constru	3 Construction Started									
2 Constru	2 Construction Completed									

0 Project(s) Deferred/Deauthorized

0 Unfunded Project(s)

	Pro	. Green comment of the fired Agency, Dill. Of Acidi (11,10KF; (NRCS)								Page 54
PROJECT	BASIN	PARISH ACRI	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	* %	Actual Obligations/ Expenditures
Priority List 3										
Brady Canal	TERRE	TERRE	297	13-Oct-94 A	15-Aug-98	15-Apr-99	\$4,717,928	\$4,598,773	97.5	\$202,031
	Remarks:	Project delayed b company in the a Federal funding.	yed because of the area. In a ding.	flandowner conce ddition, CSA revi	rns about permit o	conditions regardii to accommodate	Project delayed because of landowner concerns about permit conditions regarding monitoring, and objection from a pipeline company in the area. In addition, CSA revisions were needed to accommodate the landowner's interest in providing non-Federal funding.	lobjection from a crest in providing	pipeline non-	\$42,229
	Status:	Permitting and des will help cost shard slipped from May	ind design const st share the pro 1 May 1998 to	ign conditions have resul the project. The revised 1998 to August 1998	led in the CSA bei CSA is expected	ing modified to als to be complete in	Permitting and design conditions have resulted in the CSA being modified to also include Fina Oil Co. and LL&E. Both will help cost share the project. The revised CSA is expected to be complete in March 98. The construction schedule slipped from May 1998 to August 1998.	Co. and LL&E.   nstruction schedu	Both	
Cameron Creole Maintenance	CALC	CAMER	2,602	09-Jan-97 A	30-Sep-97 A	31-Jul-98	\$3,719,926	\$3,730,000	100.3	\$1,058,000
	Remarks:	This project provid set. The first confr	provides for n st contract for	les for maintenance on an as-neco ract for maintenance is complete.	as-necded basis, t mplete.	herefore, a definit	This project provides for maintenance on an as-necded basis, therefore, a definite design completion start date cannot be set. The first contract for maintenance is complete.	n start date canno	t be	\$13,694

Status: The first contract for maintenance work is complete. The second contract has been awarded.

										Actual
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	%	Obligations/ Expenditures
Cote Blanche	TECHE	STMRY	2,223	01-Jul-96 A	25-Mar-98 A	15-Sep-98	\$5,173,062	\$5,639,302	0.601	\$4,555,346
	Remarks:	LA DNR's placer put on hold durin	placement of the during that time.	LA DNR's placement of the project on a September 1995 candidate deauthorization list caused delays, as did the CSA being put on hold during that time.	ptember 1995 can	didate deamhoriza	lion list caused de	lays, as did the C	SA being	
	Status:	Construction start date construct the project. budget modifications.	n start date sli ie project. Sit lifications. C	Construction start date slipped from November 1997 to March 1998 because of concern about the source of shell to construct the project. Site inspection for bidder was held January 12, 1998. Concern for a source of shell may require budget modifications. Contract awarded February 1998; notice to proceed March 1998.	ber 1997 to March dder was held Jann ebruary 1998; noti	n 1998 because of uary 12, 1998. Co	concern about the ncern for a source ch 1998.	source of shell to of shell may rcq	uire	
SW Shore White Lake Demo	MERM	VERMI	9	11-Jan-95 A	30-Apr-96 A	31-Jul-96 A	\$126,062	\$146,944	116.6	\$58,286 \$37,766
	Remarks:									
	Status:	Complete.	Complete. Deauthorization requested.	on requested.						
Violet Freshwater Distribution	PONT	STBER	247	13-Oct-94 A	15-Feb-00	15-Dec-00	\$1,821,438	\$1,844,040	101.2	\$143,011
	Remarks:	Rights-of-w arisen about	ay to gain acc trights to oper	Rights-of-way to gain access to the site is a problem due to multiple landowner coordination, and additional questions have arisen about rights to operate existing siphon.	problem due to mu 1.	ultiple landowner o	coordination, and	additional questic	ons have	\$60,00¢

Access problems have been resolved and design is currently proceeding; the construction schedule slipped from September 1998 to February 2000 as design is finalized.

	Proj	ect Status	Summary R	Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)				•		Page 56
PROJECT	BASIN	PARISH	ACRES	CSA	CSA CONST Start Const En	Const End	Baseline	Baseline Current %	. %	Actual Obligations/ Expenditures
West Pointe-a-la- Hache Outfall	BARA	PLAQ	1,087	05-Jan-95 A	15-Nov-99	15-Dec-00	\$881,148	\$4,079,556	463.0 !	\$98.923
Management	Remarks:	Initial cost estimate i	tstimate is too	low. Additional \$	3.2 million reque	is too low. Additional \$3.2 million requested and approved at the January 16, 1998 Task Force meeting.	at the January 16,	, 1998 Task Force	: meeting.	\$7.893
	Status:	Project put	on hold while v	waiting for estimat	e increase. Cons	Project put on hold while waiting for estimate increase. Construction start slipped from August 1998 to November 1999.	ed from August 19	998 to November	. ,	
White's Ditch Outfall Management	BRET	PLAQ	0	13-Oct-94 A			\$756,134	\$23,075	3.1	\$102,335
	Remarks:	LA DNR concurred meeting.		IRCS to deauthori:	ze the project. P	with NRCS to deauthorize the project. Project deauthorized at the January 16, 1998 Task Force	d at the January 10	6, 1998 Task Forc	×	\$23.075
	Status:	Deauthorized.	<del>5</del>							
	Total Priority List 3	e.	6,472				\$17,195,698	\$20,061,690	116.7	\$6,217,932 \$486,172

lotal Priority List 3	6,472	\$17,195,69	\$17,195,698 \$20,061,690 116.7	069°	116.7	\$6,217,9
7 Project(s)						1,000,4
7 Cost Sharing Agreements Executed	ecuted					

1 Project(s) Deferred/Deauthorized

0 Unfunded Project(s)

3 Construction Started

I Construction Completed

PROJECT	BASIN	PARISH ACRES	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
Priority List 4							,			
Bayou L'Ours Ridge Hydrologic Restoration	BARA	LAFOU	787	23-Jun-97 A	66-mif-10	01-Jul-00	\$2,418,676	\$2,418,700	100.0	\$280,472
	Remarks:									\$1,073
	Status:	Project on schedule.		Permit applications and evnironmental assessments are proceeding.	ıd evnironmental	assessments are pr	oceeding.			
BBWW "Dupre Cut" • West	BARA	JEFF	232	23-Jun-97 A	15-Oct-98	15-May-99	\$2,192,418	\$2,212,279	6:001	\$181,246
	Remarks:									47C.1&

The project is being coordinated with the COE dredging program. COE permit is in the process of reviewing the permit. No date for resolution scheduled.

	Pro	Project Status Summa	Summary F	teport - Lead /	Agency: DEPT	Project Status Summary Report - Lead Agency: DEPT, OF AGRICULTURE (NRCS)	TURE (NRCS	•		Page 58
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Bascline	Baseline Current %	*	Actual Obligations/ Expenditures
Flotant Marsh Fencing Demo	TERRE	TERRE	0	30-Jun-98	30-Jun-99	30-Oct-99	\$367,066	\$393,628	107.2	\$73,294
	Remarks:	Difficulty i	n locating an a	ppropriate site fo	r demonstration ar	Difficulty in locating an appropriate site for demonstration and difficulty in addressing engineering constraints.	ressing engineerin	g constraints.		
	Status:	CSA execution slipp an appropriate site is settled by the end of	tion slipped fr ate site for de he end of Janu	ed from September 19 or demonstration and d January 1998.	97 to June 1998. (ifficulty in addres	CSA execution slipped from September 1997 to June 1998. Construction schedule will be affected. Difficulty in locating an appropriate site for demonstration and difficulty in addressing engineering constraints. Project location is expected to be settled by the end of January 1998.	lule will be affecte onstraints. Project	d. Difficulty in l location is expec	ocating :ted to be	
Perry Ridge Bank Protection	CALC	CALCA	1,203	23-Jun-97 A	15-Jun-98	15-Jan-99	\$2,223,518	\$2,223,500	100.0	\$1,991,175
	Remarks:									
	Status:	Acquisition	of land rights	are complete; pro	Acquisition of land rights are complete; project on schedule.					
Plowed Terraces Demo	CALC	CAMER	•	15-Apr-98	01-Aug-98	30-Jan-99	\$299,690	\$299,690	100.0	\$44,542 \$2,128
	Remarks:	Project was	put on hold p	Project was put on hold pending results of an	an earlier terraces	Project was put on hold pending results of an earlier terraces demonstration project being paid for by the Gulf of Mexico	ject being paid for	by the Gulf of N	1exico	

CSA execution slipped from November 1997 to April 1998. Construction start slipped from April 1998 to August 1998. Project initially put on hold pending results of an earlier terraces demonstration project being paid for by the Gulf of Mexico program. Project currently proceeding.

program. The project is currently proceeding.

CELMIN-FIM-M	Pro Pro	STAL WE	TLANDS P Summary R	LANNING, cport - Lead	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)	AND RESTOR OF AGRICUL	ATION ACT TURE (NRCS			31-Mar-98 Page 59
PROJECT	BASIN	PARISH ACRES	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
	Total Priority List 4	4	2.172				\$7,501,368	\$7,547,797	100.6	\$2,570,729
5 Pro	5 Project(s)									
3 Cos	3 Cost Sharing Agreements Executed	s Executed								
0 Con	0 Construction Started									
0 Con	0 Construction Completed									
0 Proj	0 Project(s) Deferred/Deauthorized	thorized								
O Unf	0 Unfunded Project(s)									

	Project Status Summary Report - Lead Agency: DEPT, OF AGRICULTURE (NRC	Project Status Summar	Summary F	y network tread affeirey, 1911 I. Or Markie U.L. URE (INRES)		OF MURIL UL	```			Ракс 60
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
Priority List 5							·			
Freshwater Bayou Bank Stabilization	MERM	VERMI	<b>SII</b>	01-Jul-97 A	15-Feb-98 A	15-Apr-98	\$3,998,919	\$3,998,900	100.0	\$3,444,212
	Remarks:	The local cost share is		being paid by Acadian Gas Company.	an Gas Company.					<b>51</b> 3,777
	Status:	Contract was awarded	is awarded Jan	wary 14, 1998. (	January 14, 1998. Construction began February 1998.	February 1998.	•			
Naomi Outfall Management	BARA Remarks:	PLAQ	633	15-Apr-98	01-Mar-99	30-Sep-99	\$1,686,865	\$1,771,813	105.0	\$109,981 \$1.062

PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	. %	Actual Obligations/ Expenditures
Racoon Island Break waters Demo	TERRE	TERRE		03-Sep-96 A	21-Apr-97 A	31-Jul-97 A	\$1,497,538	\$2,063,398	137.8!	\$1,765,830
	Remarks:									\$1,557,433
	Status:	Complete.								
Sweet Lake/Willow Lake	CALC	CAMER	247	23-Jun-97 A	96-unf-10	01-Jun-99	\$4,800,000	\$4,762,700	99.2	\$130,535
	Remarks:	The 5th Priority Lianth	ority List auth funding in the	orized funding in t amount of \$2,500,	he amount of \$2,3 ,000 for the FY 97	ist authorized funding in the amount of \$2,300,000 for the FY 96 Phase 1 of this project. Priority List 6 s in the amount of \$2,500,000 for the FY 97 Phase 2 of the project. Total project cost is \$4,800,000.	96 Phase I of this yect. Total projec	project. Priority t cost is \$4,800,00	List 6 00.	\$23,672
	Status:	On schedule.	ęj							

\$5,450,558 \$1,595,943

\$12,596,811 105.1

\$11,983,322

1,391

Total Priority List 5

3 Cost Sharing Agreements Executed

4 Project(s)

0 Project(s) Deferred/Deauthorized

0 Unfunded Project(s)

2 Construction Started 1 Construction Completed

	Pro Pro	right Status Summing report - Lead Agency: Dirt. Or Acord Oly LOKE (NRCS)	•	•						
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Bascline	Baseline Current %	. %	Actual Obligations/ Expenditures
Priority List 6					•					
BBWW "Dupre Cut" • East	BARA	JEFF	217	15-Apr-98	01-Mar-99	30-Sep-99	\$5,019,900	\$5,019,900	0.001	\$7,500
	Remarks:	This project will be	t will be comb	oined with the Na	combined with the Naomi Outfall Management project for planning, design and construction.	ement project for p	olanning. design an	d construction.		
	Status:	CSA at DN program an combined w	R for several I d monitoring   vith Naomi O.	months; execution program review. ufall Managemen	CSA at DNR for several months; execution slipped from December 1997 to April 1998 because of L.A DNR's O&M program and monitoring program review. This should not affect the project construction schedule. This project will be combined with Naomi Outfall Management project for planning, design, and construction.	ember 1997 to Api Tect the project coi ng. design, and coi	ril 1998 because of nstruction schedule nstruction.	LA DNR's O&M	æ ==	
Cheniere au Tigre Sediment Trannino	ТЕСНЕ	VERMI	0	. 86-Inf-10	01-Apr-99	30-Oct-99	\$500,000	\$500,000	100.0	\$7,500
Device Demo	Remarks:									04

Additional funds in the amount of \$346,073 will be requested at the April 1998 Task Force meeting; total project will be \$846,073.

					•		•			Actual
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	. %	Obligations/ Expenditures
Oaks/Avery Canals Hydrologic Restoration-	ТЕСНЕ	VERMI	091	01-May-98	66-Inf-10	30-Dec-99	\$2,367,700	\$2,367,700	100.0	\$10,588
Incr I (B.S. only)	Remarks:						·			<b>0</b> \$
	Status:	No anticipa should resu	ated problems It in the proje	No anticipated problems to expedite implementation. The planning, design, and construction will be handled by DNR and should result in the project being completed about 6 months early.	nentation. The pl: 1 about 6 months e	anning, design, an :arly.	d construction will	l be handled by DN	VR and	
Penchant Basin Plan w/o Shoreline	TERRE	TERRE	1,155	01-May-99	01-Oct-00	30-Oct-01	\$7,051,550	\$7,051,550	100.0	\$7,500
Stabilization	Remarks:	Priority List 6 auth project cost of \$14	t 6 authorized fu of \$14,103,100	Priority List 6 authorized funding for \$7,051,550 in FY 97; Priority List 8 is scheduled to fund \$7,051,550, for a total project cost of \$14,103,100.	1,550 in FY 97; P	riority List 8 is scl	heduled to fund \$7	,051,550, for a tot	<del>-</del>	<b>9</b>
	Status:	CSA slipped from		February 1998 to May 1999. Data gathering on-going. Project on schedule.	999. Data gatherii	ng on-going. Proj	ect on schedule.			
	Total Priority List 6	9	1,532		,		\$14,939,150	\$14,939,150	100.0	\$33,088
4 Project(s)	<b>(s</b> )									•
0 Cost Sh	0 Cost Sharing Agreements Executed	; Executed								
0 Construc	0 Construction Started									
0 Construk	0 Construction Completed									
0 Project(s	0 Project(s) Deferred/Deauthorized	thorized								

0 Unfunded Project(s)

	S S	STAL WE	TLANDS P	LANNING, P eport - Lead /	ROTECTION Agency: DEPT	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRC	OASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)			31-Mar-98 Page 64
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	* %	Actual Obligations/ Expenditures
Priority List 7							٠.			
Barataria Basin Landbridye, Ph I	BARA	JEFF	862	15-Jul-98	15-Jan-00	15-Sep-00	\$10,342,700	\$10,342,700	0.001	05
	Remarks:									2
	Status:									
Barataria Basin 1 andhridee Ph 2	BARA	JEFF	787	٠			\$21,263,700	\$21,263,700	0.001	8
	Remarks:	This project	l was approved	as an unfunded	This project was approved as an unfunded project on Priority List 7.	List 7.				0\$

PROJECT	BASIN PARISH ACRES CSA Const Start Const End Baseline	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
South Grand Cheniere Freshwater Introduction	MERM	CAMER	33				\$5.130,500	\$5,130,500	0.001	03.5
	Remarks:	This project	i was approved	as an unfunded	This project was approved as an unfunded project on Priority List 7.	List 7.				2
	Status:	Unfunded.								
Thin Mat Floatant Marsh Enhancement	PEN	TERRE	0	15-Sep-98	15-Apr-99	15-May-99	\$460,222	\$460,222	100.0	S 5
<b>Demo</b>	Remarks:									2
	Status:									
Upper Oak River Freshwater	BRET	PLAQ	337				\$12,471,800	\$12,471,800	100.0	80
Introduction Siphon	Remarks:	This project	was approved	as an unfunded <sub>l</sub>	This project was approved as an unfunded project on Priority 1 ist 7	List 7				OS S

Status: Unfunded.

PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
	Total Priority List 7	7	2,019				\$49,668.922	\$49,668,922	0.001	\$0
5 Project(s)	ect(s)						. ,			
0 Cost	0 Cost Sharing Agreements Executed	Executed								
0 Con:	0 Construction Started									
0 Con	0 Construction Completed									
0 Proje	0 Project(s) Deferred/Deauthorized	orized								
3 Unfi	3 Unfunded Project(s)									
al DEPT. OF AG RESOURCES	Total DEPT. OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE	RAL ERVICE	20,672				\$129,927,406	\$134,146,506	103.2	\$22,201,060 \$8,276,830
38 Project(s)	ect(s)									
26 Cost	26 Cost Sharing Agreements Executed	Executed								
13 Cons	13 Construction Started									
8 Cons	8 Construction Completed									
2 Proje	2 Project(s) Deferred/Deauthorized	horized								
3 Unfu	3 Unfunded Project(s)									

- 1. Expenditures based on Corps of Engineers financial data.
  2. Date codes: A = Actual date = Behind schedule
  3. Percent codes: ! = 125% of baseline estimate exceeded

PROJECT		ACRIS		ESTIM,	:	Actual Obligations/
			Baseline	c Current	%	Expenditures
SUMMARY	Total All Projects	009'99	\$330,237,62	\$330,237,629 \$346,341,952 104.9 \$105,761,863 \$37,436,216	104.9	\$105,761,863
94 Pr	94 Project(s)					•
S9 Ce	59 Cost Sharing Agreements Executed	79	Total Available Funds	ble Funds		
34 Co	34 Construction Started		Federal Funds	\$231.160.268		
21 Ca	21 Construction Completed		Non/Federal Funds	\$50.835.216		
10 Pr	10 Project(s) Deferred/Deauthorized		Total Funds	\$281.995.484		
8 Un	8 Unfunded Project(s)					

31-Mar-98

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

CELMN-PM-M

Project Status Summary Report - Total All Priority Lists

G-70

			Proje	set Status Su	Project Status Summary Report by Basin	by Basin			
	No. of Projects	Acres	CSA	Under Const.	Completed	Projects Deauth.	Baseline Estimate	Current	Expenditures To Date
Basin: All Basins in State	State								
Priority List: Cons Plan	Plan 1	0	-	-	1	0	\$238,871	\$238.871	\$123,202
Basin Total	· <b>-</b>	0	-	-	-	0	\$238,871	\$238.871	\$123,202
Basin: Atchafalaya				-					
Priority List: 2	2	4,392	2	2	-	0	\$5,043,867	\$9,143,396	\$3,715,849
Basin Total	2	4,392	2	2	-	0	\$5.043,867	\$9,143,396	\$3,715,849
Basin: Barataria									
Priority List:	3	620	3	3	-	0	\$9,960,769	\$10,102,902	\$2,754,456
Priority List: 2	_	210	_	0	0	0	\$3,398,867	\$4,046,673	\$277,515
Priority List: 3	3	1,263	3	-	0	_	\$4,160,823	\$8,490,200	\$2,396,353
Priority List: 4	2	696	7	0	c	0	\$4,611,094	\$4,630,979	\$2,597
Priority List: 5	2	1,752		0	9	0	\$12,186,865	\$12,271,813	\$18,838
Priority List: 6	-	217	•	0	0	•	\$5,019,900	006'610'5\$	80
Priority List: 7	3	1.776	0	0	0	Ó	\$32,535,300	\$32,535,300	05
Racin Total	51	7 107	9	4	_	-	017 [20 [23	C 25 C 110 C C 3	020 000 33

CLLMN-PM-M		CO	ASTAL W	4:TLANDS PI Proje	LANNING, ct Status Su	DS PLANNING, PROTECTION AND R Project Status Summary Report by Basin	AND REST	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report by Basin		31-Mar-48 Page 2
		No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Bascline Estimațe	Current	Expenditures To Date
Basin: Breton Sound	puno									,
Priority List:	7	-	802	-	0	0	0	\$2,522,199	\$2,634,353	\$149,573
Priority List:	•	-	•	-	0	0	-	\$756,134	\$23,075	\$23.075
Priority List:	4	-	•	0	0	0	-	\$2,468,908	\$52,154	\$52,154
Priority List:	7	-	337	0	0	0	0	\$12,471,800	\$12,471,800	95
Basin Total	Į.	4	1,139	2	0	0	2	\$18,219,041	\$15,181,382	\$224,802
Basin: Calcasieu	_									
Priority List:	-	e	6,127	E.	E	•	0	\$5,770,187	\$2,869,804	\$1,743,657
Priority List:	7	4	3,010	4	2	61	0	\$8,568,462	\$10,202,665	\$4,367.873
Priority List:	3	2	3,555	2	-	0	0	\$8,301,380	\$8,321,454	\$29,334
Priority List:	4	e	1,203	2	0	0	0	\$2,893,802	\$2,903,784	\$89,294
Priority List:	~	_	247	_	0	0	0	\$4,800,000	\$4,762,700	\$23,672
Priority List:	•	-	3,594	0	0	0	0	\$6,316,800	\$6,316,806	2864
Priority List:	7	-	238	0	0	Ð	0	\$9,391,600	89,391,600	20
Basin Total	tal	. 51	17.974	13	9	<b>S</b> .	0	\$46,042,231	\$44,768,813	\$6,254,694

				Proj	ect Status Su	Project Status Summary Report by Basin	by Basin			Page 3
		No. of Projects	Acres	CSA	Under Const.	Completed	Projects Deauth.	Bascline Estimate	Current Estimate	Expenditures To Date
Basin: Miss. River Delta	cr Delt	a								
Priority List:	-	-	9,831	0	0	0	0	\$8,517,066	\$16,683,854	\$457,938
Priority List:	E	2	936	-	_	-	-	\$3,666,187	\$995,832	\$568,653
Priority List:	4	_	0	_	0	0	0	\$300,000	\$375,000	\$21,559
Priority List:	9	2	2,386	0	0	0	0	\$4,336,950	\$4,336,950	\$23,354
Basin Total	<u>-</u>	9	13,153	2		_	_	\$16,820,203	\$22,391,636	\$1,071,504
Priority 1 ist	-	ŗ	033	r	,	ſ	-	10,000		
	•	4	466	7	7	7	_	1/0,808,071	\$1,569,522	\$979,431
Priority List:	7	_	1,604	_	-	0	0	\$2,770,093	\$2,780,100	\$1,216,135
Priority List:	m		91	_			0	\$126,062	\$146,944	\$37,766
Priority List:	S	-	511		-	0	0	\$3,998,919	\$3,998,900	\$13,777
Priority List:	7	2	475	0	0	0	0	\$7,316,400	\$7,316,400	20
Basin Total	7	7	3,165	8	'n	£	-	\$15,580,145	\$15,811,866	\$2,247,109
Basin: Bayou Penchant	nchant									
Priority List:	7	_	0	0	0	0	. 0	\$460,222	\$460,222	80
Basin Total	<del></del>	-	0		•	c	•	6440 333	6440.333	3

CELMN-PM-M	•	CO)	ASTAL W	/ETLANDS P Proje	LANNING.	DS PLANNING, PROTECTION AND R Project Status Summary Report by Basin	I AND REST by Basin	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report by Basin		31-Mar-98 Page 4
		No. of Projects	Acres	CSA	Under Const.	Completed	Projects Deauth.	Bascline Estimate	Current Estimate	Expenditures To Date
Basin: Pontchartrain	train									
Priority List:		2	1,753	۲،	CI	C1	0	\$6,119,009	\$5,257,352	\$4,340,887
Priority List:	7	. 7	2,321	CI	-	-	0	\$4,500,424	\$4,575,596	\$1,118,784
Priority List:	٣		1,002	3	-	0	0	\$2,683,636	\$2,806,704	\$543,454
Priority List:	4		0	0	0	0	-	\$5,018,968	\$1,380	\$31,973
Priority List:	8	-	661	0	0	0	0	\$2,890,821	\$2,555,029	\$215,714
Priority List:	7	2	357	0	0	0	0	\$21,643,600	\$21,643,600	80
Basin Total	tal	Ξ	5,632	7	4	£	-	\$42,856,458	\$36,839,661	\$6,250,812
Basin: Teche / Vermilion	/ermili	uo								
Priority List:	-	-	24	-	_	_	0	\$1,526,000	\$2,056,249	\$1.680.784
Priority List:	7	_	378	-	_	-	0	\$1,008,634	\$965,473	\$672,321
Priority List:	3	_	2,223	_		0	0	\$5,173,062	\$5,639,302	\$303,418
Priority List:	S	-	441	_	0	0	0	\$940,065	\$940,100	\$5,695
Priority List:	٥	4	2,567	0	0	0	0	\$10,130,000	\$10,130,000	\$46,872
Basin Total	[a]	<b>80</b>	5,663	4	ю	2	0	\$18,777,761	\$19,731,124	\$2,709,090

				Proje	et Status St	Project Status Summary Report by Basin	by Basin	Project Status Summary Report by Basin		S offer C
		No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth	Bascline Estimate	Current Estimate	Expenditures To Date
Basin: Terrebonne	וכ									
Priority List:	-	\$	232	4		C1	7	\$8.809.393	\$9.450.361	103
Priority List:	7	ĵ	954	3	<b>.</b>	-	0	\$12,831,588	\$19 948 \$05	\$67.1506
Priority List:	•	4	3.058	4	-	c	0	\$15,758,355	\$20.063.160	0.147.14
Priority List:	4	2	215	<b>.</b>	0	0	0	\$6,119,470	\$20,003,100	26,515, <del>44</del>
Priority List:	~		2.037	7	-	-	0	\$23,620,006	650,100,10 848 840 ACM	ינינים <b>ני</b>
Priority List:	•	8	1,774	0	c	0	2	819,595,600	008,237,522	67777176
Priority List:	7	2	105	0	0	0	0	\$7,590,800	\$7,590,800	210,774
Basin Total	<b>-</b>	24	8,375	4	œ	4	4	\$94,325,212	\$104,677,214	201 081 92

	ĝ		Proj	ect Status St	De PLANNING, PROTECTION AND RI Project Status Summary Report by Basin	AND REST by Basin	Project Status Summary Report by Basin		31-Mar-98 Page 6
	No. of Projects	Acres	CSA	Under	Completed	Projects Deauth	Baseline Estimate	Current	Expenditures To Date
Fotal All Basins	7	909'99	65	2	15	01	\$130,217,629	\$346,341,952	\$37,436,216

				Project Status Summary Report by Parish	ct Status Su	Project Status Summary Report by Parish	by Parish			Page 1
		No. of Projects	Acres	CSA	Under Const.	Completed	Projects Deauth	Baseline Estimate	Current	Expenditures To Date
Parish: ASCENSION	NO					,		÷		
Priority List:	s	-	428	-	0	0	0	\$16,987,000	\$16,987,000	\$516,506
Parish Total	_	-	428	-	0	0	0	\$16,987,000	\$16,987,000	\$516,506
Parish: CALCASIEU	EU									
Priority List:	2	_	1.066		-	-	0	\$1,741,310	\$3,416,212	\$2,765,651
Priority List:	4	-	1,203	-	0	0	0	\$2,223,518	\$2,223,500	\$79,995
Parish Total		2	2,269	2	-	-	0	\$3,964,828	\$5,639,712	\$2,845,646
Parish: CAMERON	z									
Priority List:	_	4	6,374	4	4	4	0	\$6,947,855	\$4,359,878	\$2,643,640
Priority List:	7	3	1,944	m	-	_	0	\$6,827,152	\$6,786,453	\$1,602,222
Priority List:	3	7	3,555	2	-	0	0	\$8,301,380	\$8,321,454	\$29,334
Priority List:	4	2	0	-	0	0	0	\$670,284	\$680,284	89,300
Priority List:	S		247	-	0	0	0	\$4,800,000	\$4,762,700	\$23,672
Priority List:	9	*****	3,594	0	0	0	0	\$6,316,800	\$6,316,806	\$864
Priority List:	7	2	172	0	0	0	0	\$14,522,100	\$14,522,100	0\$
Parish Total	==	15	15,985	=	9	\$	0	\$48,385,571	\$45,749,675	\$4,309,031

CELMN-PM-M	<b>3</b>	OASTAL. W	/ETLANDS P Proje	LANNING, ct Status Su	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report by Parish	I AND RESTO by Parish	RATION ACT		31-Mar-98 Page 2
	No. of Projects	Acres	CSA	Under Const.	Completed	Projects Deauth.	Bascline Estimate	Current Estimate	Expenditures To Date
Parish: Coastal Parishes	Š								
Priority List: Cons Plan	_ s	0	-	-	_	0	\$238.871	\$238,871	\$123,202
Priority List: 6	-		0	0	0	0	\$1,040,000	\$1,040,000	0\$
Parish Total	2	0	-		-	0	\$1,278,871	\$1,278,871	\$123,202
Parish: IBERIA									
Priority List: 6	-	408	0	0	0	c	\$4,094,900	\$4,094,900	\$45,999
Parish Total	-	408	0	0	0	0	\$4,094,900	\$4,094,900	\$45,999
Parish: JEFFERSON									
Priority List:	7	445	2	7	_	0	\$1,819,257	\$1,755,796	\$1,116,967
Priority List: 2	-	910		0	0	•	\$3,398,867	\$4,046,673	\$17,515
Priority List: 3	-	0	-	0	0	_	\$1,835,047	\$1,844,750	\$1,292,658
Priority List: 4	-	232	-	0	0	0	\$2,192,418	\$2,212,279	\$1,524
Priority List: 6	-	217	0	0	0	0	\$5,019,900	\$5,019,900	20
Priority List: 7	3	1,776	0	0	0	0	\$32,535,300	\$32,535,300	80
Parish Total	6	3,180	2	2	-	-	\$46,800.789	\$47,414,698	\$2,688,664

				afia.	Ti comu	mens to mylan finning comme safe.	100 m 1 6			•
		No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Bascline Estimate	Current Estimate	Expenditures To Date
Parish: LAFOURCIIE	3113									
Priority List:	_	2	175		-	0	-	\$8,393,548	\$8,354,105	\$1.643.488
Priority List:	7	_	469	-		0	0	\$4,854,102	\$6,367,625	\$726,198
Priority List:	3	-	1,013	-	0	0	0	\$2,046,971	\$2,568,751	\$1,465,209
Priority List:	4	2	952	2	0	0	0	\$8,171,080	\$9,606,705	\$73,546
Priority List:	5	-	1,609	0	0	0	0	\$5,135,468	\$7,935,468	\$53,300
Parish Total	_	7	4,218	5	2	0	-	\$28,601,169	\$34,832,654	\$3,962,742
Parish: ORLEANS										
Priority List:	_		1,550	_	_	-	0	\$1,657,708	\$1,598,612	\$983.433
Priority List:	2	-	1,281	_	-	-	Φ	\$1,452,035	\$1,700,121	\$1.001.877
Priority List:	~	_	661	0	0	0	0	\$2,890,821	\$2,555,029	\$215714
Priority List:	7		226	0	0	0	0	\$6,510,200	\$6,510,200	0\$
Parish Total	_	4	3,256	2	2	2	c	\$12 \$10 764	<b>613</b> 363 063	

CELMN-PM-M		<b>CO</b>	ASTAL W	ETLANDS P	LANNING.	PROTECTION	AND REST	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT		31-Mar-98 Page 4
٠				3(c).	ci Maius Mi	roject Status Summary Report by Parish	by Parish			F 280 -
	_	No. of Projects	Acres	CSA	Under Const.	Completed	Projects Deauth.	Baseline Estimate	Current Estimate	Expenditures To Date
Parish: PLAQUEMINES	MINES									
Priority List:	_	_	9,831	0	0	0	0	\$8,517,066	\$16,683,854	\$457,938
Priority List:	2	-	802	_	0	9	0	\$2,522,199	\$2,634,353	\$149,573
Priority List:	É	4	2,023		_	-	2	\$5,303,469	\$5,098,462	\$599,620
Priority List:	4	2	•	-	0	<b>O</b>		\$2,768,908	\$427,154	\$73,713
Priority List:	S	2	1,752	_	0	0	0	\$12,186,865	\$12,271,813	\$18,838
Priority List:	•	2	2,386	0	0	0	0	\$4,336,950	\$4,336,950	\$23,354
Priority List:	7		337	0	0	0	0	\$12,471,800	\$12,471,800	. <b>0</b>
Parish Total	_	13,	17,131	9	-	-	3	\$48,107,257	\$53,924,387	\$1,323,037
Parish: ST. BERNARD	ARD									
Priority List:	<b>6</b>	2	1,002	2	0	0	0	\$2,333,636	\$2,326,204	\$256.831
Priority List:	7	-	131	0	0	0	0	\$15,133,400	\$15,133,400	<b>0\$</b>
Parish Total	_	3	1,133	2	0	0	0	\$17,467,036	\$17,459,604	\$256,831

No. of   CSA   Under   Completed   Projects				Proje	ect Status Su	Project Status Summary Report by Parish	by Parish	Project Status Summary Report by Parish		31-Mar-98 Page 5
LES  1		No. c Projec		CSA Executed	Under Const.	Completed	Projects Deauth.	Baseline Estimate	Current Estimate	Expenditures To Date
1 1 2 319 1 1 1 0 0 0  THE BAPTIST  1 1 0 1 1 0 0 0  IN  1 2 1,999 0 0 0 0 1  1 2 4,392 2 2 1 0 0 0  2 2 4,392 2 2 1 0 0 0  3 1 2,223 1 1 1 0 0 0  4 6,615 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Parish: ST. CHARLE	SS								
1 2 379 2 2 1 0 0  THE BAPTIST  1 1 0 1 1 0 0 0  1 1 1 0 0 0  IN  IN  2 2 1,999 0 0 0 0 1  2 2 4,392 2 2 1 0 0 0  2 3 1 2,223 1 1 1 0 0 0  4 6 1 0 0 0 0 0 1  5 6 1 0 0 0 0 0 0  7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Priority List:	_	203	-	-	-	0	\$4,461,301	\$3,658,740	\$3,357,455
THE BAPTIST  1		-	176	-	1	0	0	\$1,444,628	\$2,565,894	\$1,095,802
THE BAPTIST  1	Parish Total	2	379	2	2	1	0	\$5,905,929	\$6,224,634	\$4,453,257
1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Parish: ST. JOHN TH	HE BAP	TIST							
IN I 0 1 1 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1		-	0	-		0	0	\$350,000	\$480,500	\$286,623
IN 6 2 1,999 0 0 0 1 1 2 1,999 0 0 0 1 2 2 4,392 2 1 0 3 1 2,223 1 1 0 0 0 6 1 0 0 0 0 0 1	Parish Total	-	0	-	-	0 .	0	\$350,000	\$480,500	\$286.623
6 2 1,999 0 0 0 0 1  1 2 1,999 0 0 0 0 1  2 2 4,392 2 2 1 0 0  3 1 2,223 1 1 0 0 0  6 1 0 0 0 0 0 1	Parish: ST. MARTIN									
1       2       1,999       0       0       0       1         2       2       4,392       2       1       0         3       1       2,223       1       1       0       0         6       1       0       0       0       0       1		2	1,999	0	0	0	-	\$3,317,400	\$3,167,400	\$873
2 2 4,392 2 2 1 0 3 1 2,223 1 1 0 0 0 6 1 0 0 0 0 0 1	Parish Total	2	1,999	0	0	0	_	\$3,317,400	\$3,167,400	\$873
2 2 4,392 2 2 1 0 0 3 1 2,223 1 1 0 0 0 6 1 0 0 0 0 0 1	Parish: ST. MARY									·
3 1 2,223 1 1 0 0 0 6 1 0 0 0 0 1 1		2	4,392	2	2	_	0	\$5,043,867	\$9,143,396	\$3,715,849
6 1 0 0 0 0 0 1		-	2,223	_	-	0	0	\$5,173,062	\$5,639,302	\$303,418
		-	0	0	0	0	_	\$6,438,400	\$49,689	\$49,689
	Parish Total	4	6,615	En .	3	_	-	\$16,655,329	\$14,832,387	\$4,068,956

CELMN-PM-M		<b>'</b> 00	ASTAL W	/ETLANDS P Proje	LANNING, et Status Su	IDS PLANNING, PROTECTION AND RI Project Status Summary Report by Parish	I AND REST by Parish	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report by Parish		31-Mar-98 Page 6
		No. of Projects	Acres	CSA	Under Const.	Completed	Projects Deauth.	Bascline Estimate	Current Estimate	Expenditures To Date
Parish: ST. TAMMANY	MAN	<b>*</b>								
Priority List:	7	-	1,040	-	<b>0</b>	0	0	\$3,048,389	\$2,875,475	\$116,907
Priority List:	4	-	0	0	0	0	-	\$5,018,968	\$1,380	\$31,973
Parish Total	fai	2	1,040	-	0	0	-	\$8,067,357	\$2,876,855	\$148,880
Parish: TERREBONNE	ONNE	(*)								
Priority List:	-	4	232	4	3	2	_	\$8,557,357	\$9,443,361	\$614,190
Priority List:	7	7	485	2	7	-	0	\$7,977,486	\$13,580,880	\$1,215,478
Priority List:	3	m.	2,045	ET.	-	0	0	\$13,711,384	\$17,494,409	\$3,110,724
Priority List:	4	-	0	0	0	0	0	\$367,066	\$393,628	\$1,073
Priority List:	5	-			-	-	0	\$1,497,538	\$2,063,398	\$1,557,433
Priority List:	9	2	1,774	0	0	0	0	\$11,967,200	\$11,967,200	\$123
Priority List:	7	3	105	0	0	0	0	\$8,051,022	\$8,051,022	80
Parish Total	<u>le</u>	92	4,641	10	7	4	_	\$52,129,053	\$62,993,898	\$6,499,020

CELMN-PM-M		CO	COASTAL WETLAN	TETLANDS P Proje	LANNING, ct Status Su	DS PLANNING, PROTECTION AND RI Project Status Summary Report by Parish	I AND RESTO	NDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report by Parish		31-Mar-98 Page 7
		No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Bascline Estimate	Current	Expenditures To Date
Parish: VERMILION	NOI									
Priority List:	-	2	366	CI	2	CI	_	\$1,717,003	\$2,135,697	\$1,760,232
Priority List:	7	7	1,982	2	7	-	0	\$3,778,727	\$3,745,573	\$1,888,456
Priority List:	٣	-	91	-	-	_	0	\$126.062	\$146,944	\$37,766
Priority List:	8	7	952	2	-	0	0	\$4,938.984	\$4,939,000	\$19,472
Priority List:	9	7	160	0	0	0	0	\$2,867.700	\$2,867,700	0\$
Priority List:	7	-	442	0	0	0	0	\$2,185,900	\$2,185,900	\$0
Parish Total	otal	01	3,918	7	9	4	_	\$15,614,376	\$16,020,814	\$3,705.926
1 1101 FD 1	Ota:	2	3,710	,	٥	4	-	19,018	4,576	

31-Mar-98	र अंदर	nt Expenditures nte To Date	.952 \$37,436,216
		Current Estimate	\$346,341,952
COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT		Bascline Estimate	\$330,237,629
N AND RE	t by Parish	Projects Deauth.	9
i, PROTECTIC	Project Status Summary Report by Parish	Completed	21
PLANNING	oject Status S	Under Const.	7.
WETLANDS	Ą	CSA	65
OASTAL 1		Acres	009:99
Ö		No. of Projects	94
CELMN-PM-M			Total All Parishes

					Project	Project Summary Report by Priority List	by Priority List				21-1Vlaf-98
P.I.	No. of Projects	Acres	CSA Executed	Under Const.	Const. Completed	Federal Const. Funds Available	Non/Fed Const. Funds Available	Bascline Estimate	Current Estimate	Obligations To Date	Expenditures To Date
-	7	18.864	2	•	01	\$28,084,900	\$10,517,773	\$39,933,317	\$47.803.970	\$18.758.879	\$12,392,270
2	15	13,971	15	4	9	\$28,173,110	\$10,161,033	\$40,644,134	\$54,296,761	\$32,434,196	\$13,459,726
3	4	12,053	7	~	2	\$29,939,100	\$10,156,410	\$35,176,668	\$44,512,928	\$21,376,422	\$7,056,334
4	90	2,387	•	•	0	\$29,957,533	\$5,000,000	\$13,924,366	\$15,491,396	\$8.976,766	\$186,996
<b>~</b>	٥	5,187	•	-	<u></u>	\$33,371,625	\$5,000,000	\$48,436,676	\$51,514,408	\$10,803,348	\$2,404,935
9	=	10,538	0	•		\$39,134,000	\$10,000,000	\$38,810,850	\$38,810,856	\$11,187,742	\$71,213
7	4	1,431	0	0	0	\$42,500,000	80	\$13,917,722	\$13,917,722	\$0	80
Active Projects	. 75	64,431	54	13	61	\$231,160,268	\$50,835,216	\$230,843,733	\$266,348,042	\$103,537,352	\$35,571,474
Unfunded Projects	••	1,857	•	•	0			\$77,492,000	\$77,492,000	0\$	0\$
Subtotal	83	66,288	54	13	61	\$231,160,268	\$50,835,216	\$308,335,733	\$343,840,042	\$103,537,352	\$35,571,474
Deauthorized Projects	9	312	4	0	-			\$21,663,025	\$2,263,039	\$2,045,358	\$1,741,539
Total Projects	93	009'99	28	=	20	\$231,160,268	\$50,835,216	\$329,998,758	\$346,103,081	\$105,582,710	\$37,313,014
Conservation Plan	-	0	-	0	-			\$238,871	\$238,871	\$179,153	\$123,202
Total Construction Program	4	009'99	59	13	21	\$231,160,268 \$281,9	68 \$50,835,216 \$281,995,484	\$330,237,629	\$346,341,952	\$105,761,863	\$37,436,216

## Project Summary Report by Priority List

NOTES: 1. Total of 94 projects includes 75 active construction projects. 6 deauthorized projects, 4 proposed deauthorizations, the State of Louisiana's Wetlands Conservation Plan, and 8 unfunded projects approved on Priority List 7.

- Total construction program funds available is \$281,995,484.
- . The current estimate for deauthorized projects is equal to expenditures to date.
- Current Estimate for the 5th priority list includes authorized funds for FY 96, FY 97 and FY 98 for phased projects with multi-year funding. These projects, if implemented, will require an additional \$12.5 million from Priority List 8 funds.
  - Current Estimate for the 6th priority list includes authorized funds for FY 97, and FY 98 for phased projects with multi-year funding. These projects, if implemented, will require an additional \$15.8 million from Priority List 8 funds.
    - The Task Force approved 8 unfunded projects, totalling \$77,492,000 on Priority List 7.
      - 7. Obligations include expenditures and remaining obligations to date.
- 8. \$42,500,000 for Priority List 7 Federal funds available is an estimate; actual funding has not been received.