

6th PRIORITY PROJECT LIST REPORT (APPENDICES)

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LOUISIANA COASTAL WETLANDS CONSERVATION AND RESTORATION TASK FORCE

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Coastal Wetlands Planning, Protection and Restoration Act 6th Priority Project List Report

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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--WEILANDS

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, of 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 small-scale projects for the use of new techniques or necessary to demonstrate 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
 - a detailed description of each proposed coastal wetlands restoration project including a justification for including such project on the proposed activities to be carried out list, the pursuant to each coastal wetlands restoration the benefits to be realized by such project, 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.
- $(\bar{5})$ 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.
- 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 Force finds to contribute significantly to restoration.
- (d) Consistency. -- (1) In implementing, maintaining, modifying, or rehabilitating navigation, flood control or irrigation projects, emergency actions, than under other authorities, 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) AGAGMENT.-- 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.

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- (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. --
 - (I) 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 SHAR .--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. The 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;
 - (3) to carry out wetlands restoration projects in 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 ${\tt Models}$

Appendix B

Wetland Value Assessment Methodology and Community Models Table of Contents

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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 species—oriented 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:

- 1) 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 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_r --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. 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 V_1 . 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 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_5 --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_6 --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 V_7 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 VI--Percent of wetland covered by persistent emergent vegetation (≥ 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 V₅--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_6 --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 VI--Percent of wetland covered by persistent emergent vegetation (2 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_5 --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 salinites (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_6 --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 &--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 withoutproject 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:

1

Variable V₃ 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_5 Mean high salinity during the growing season (March

through November).

Aquatic Organism Access:

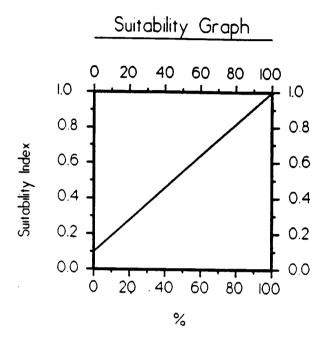
Variable V₆ Aquatic organism access.

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

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

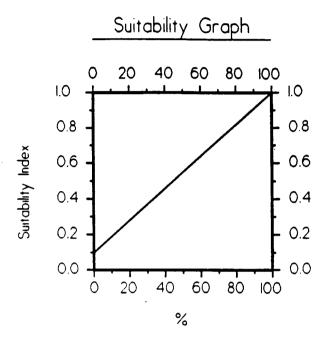


Line Formula

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

FRESH/INTERMEDIATE MARSH

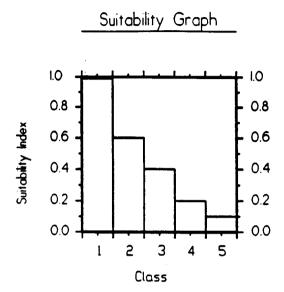
Variable V_2 Percent of open water area dominated (> 50 percent canopy cover) by aquatic vegetation.



Line Formula

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

Variable V_3 Marsh edge and interspersion.

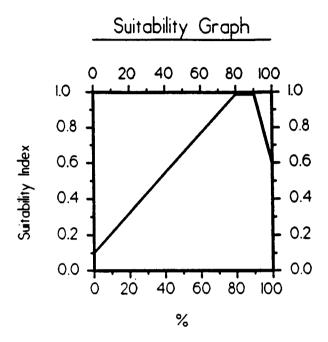


Instructions for Calculating SI for Variable 3:

- 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 ≤ 1.5 feet deep, in relation to marsh surface.



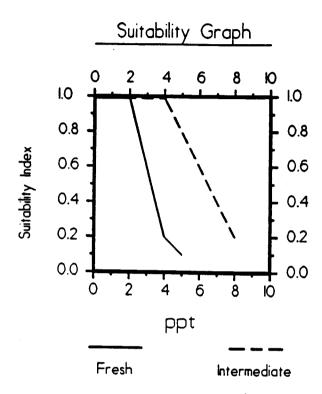
Line Formula

If $0 \le % < 80$, then SI = $(0.01125 \times %) + 0.1$

If $80 \le % < 90$, then SI = 1.0

If $% \ge 90$, 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 $SI = (-0.1 \times ppt) + 0.6$

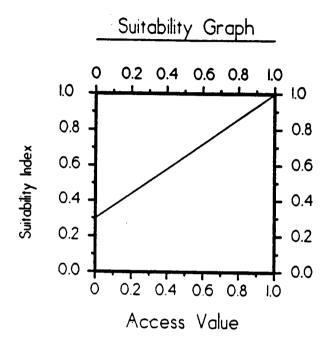
Intermediate Marsh:

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.

FRESH/INTERMEDIATE MARSH

Variable V₆ 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 V₁ 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 ≤ 1.5 feet deep, in

relation to marsh surface.

Water Ouality:

Variable V₅ Average annual salinity.

Aquatic Organism Access:

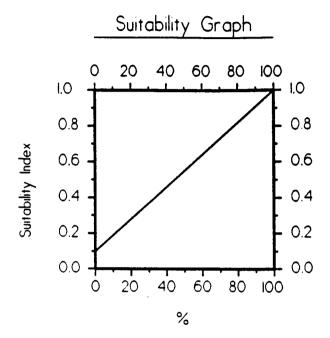
Variable V₆ Aquatic organism access.

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

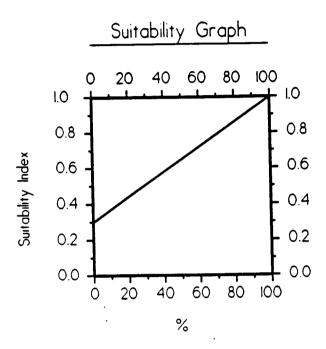
Variable V_1 Percent of wetland area covered by emergent vegetation (\geq 10 percent canopy cover).



Line Formula

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

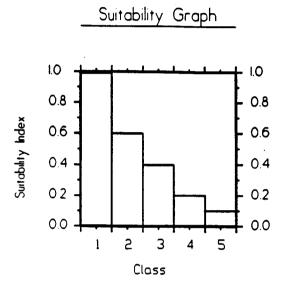
Variable V_2 Percent of open water area dominated (> 50 percent canopy cover) by aquatic vegetation.



Line Formula

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

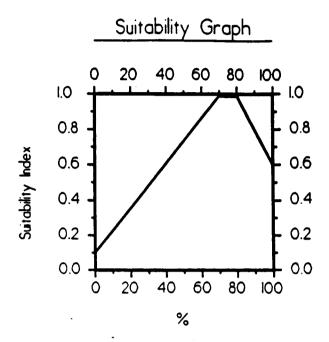
Variable V_3 Marsh edge and interspersion.



Instructions for Calculating SI for Variable 3:

- 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).

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



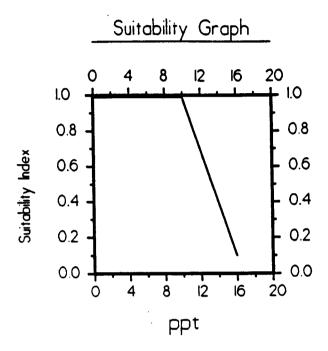
Line Formula

If $0 \le % < 70$, then SI = $(0.01286 \times %) + 0.1$

If $70 \le % < 80$, then SI = 1.0

If $% \ge 80$, then SI = $(-0.02 \times %) + 2.6$

Variable V₅ Average annual salinity.

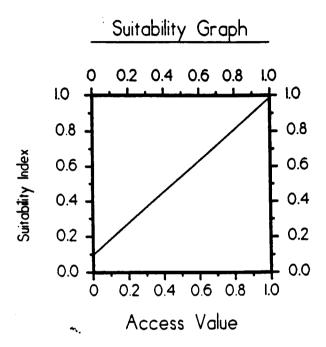


Line Formula

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

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

Variable V₆ 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

<u>Vegetation:</u>

Variable V₁ 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 V₃ Marsh edge and interspersion.

Water Depth:

Variable V₄ Percent of open water area 1.5 feet deep, in

relation to marsh surface.

Water Ouality:

Variable V₅ Average annual salinity.

Aquatic Organism Access:

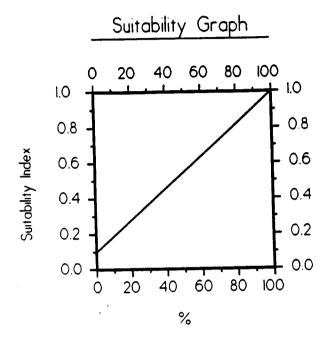
Variable V₆ Aquatic organism access.

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

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



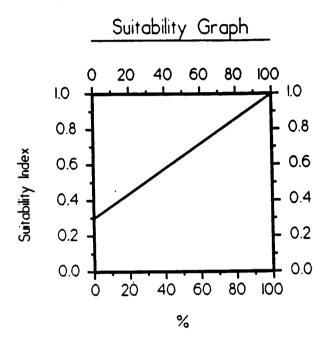
Line Formula

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

SALINE MARSH

Variable V₂

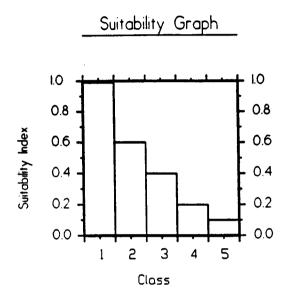
Percent of open water area dominated (> 50 percent canopy cover) by aquatic vegetation.



Line Formula

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

Variable V_3 Marsh edge and interspersion.

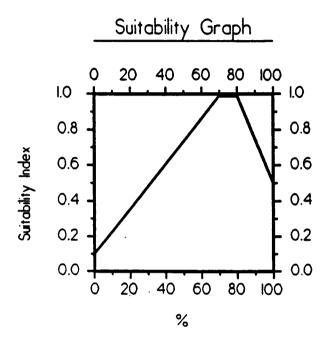


Instructions for Calculating SI for Variable 3:

- 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 ≤ 1.5 feet deep, in relation to marsh surface.

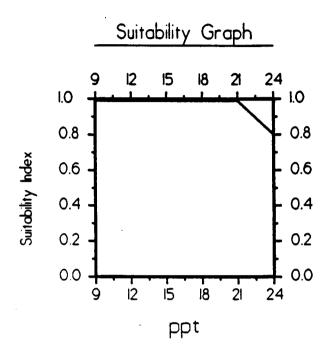


Line Formula

If $0 \le % < 70$, then SI = $(0.01286 \times %) + 0.1$ If $70 \le % < 80$, then SI = 1.0

If $% \ge 80$, then SI = $(-0.025 \times %) + 3.0$

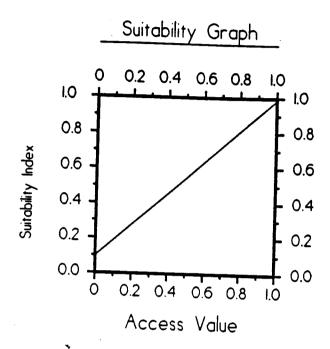
Variable V₅ Average annual salinity.



Line Formula

If $9 \le ppt < 21$, then SI = 1.0If $ppt \ge 21$, then $SI = (-0.067 \times ppt) + 2.4$ SALINE MARSH

Variable V₆ 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"

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Revised August 6, 1992

CYPRESS-TUPELO SWAMP

Water Depth and Duration:

Variable V₁ Water regime.

Water Ouality:

Variable V₂ Water flow/exchange.

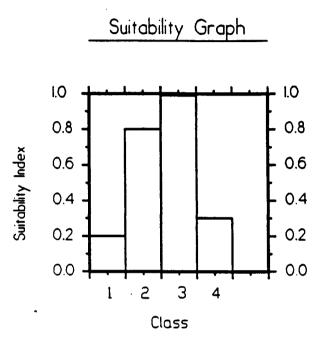
Variable V₃ Average high salinity.

HSI Calculation:

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

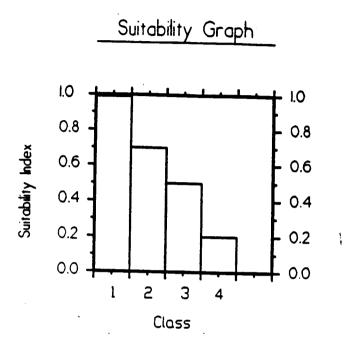
Attachment 4

Variable V₁ 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.

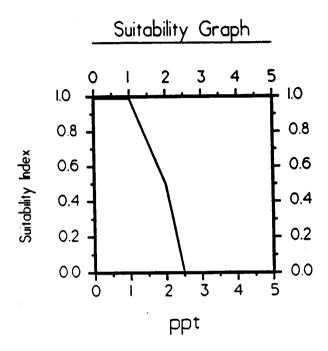
Variable V₂ Water flow/exchange.



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

CYPRESS-TUPELO SWAMP

Variable V₃ Average high salinity.



Line Formula

If $0 \le ppt < 1$, then SI = 1.0

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

If $2 \le ppt < 2.5$, then $SI = (-1.0 \times ppt) + 2.5$

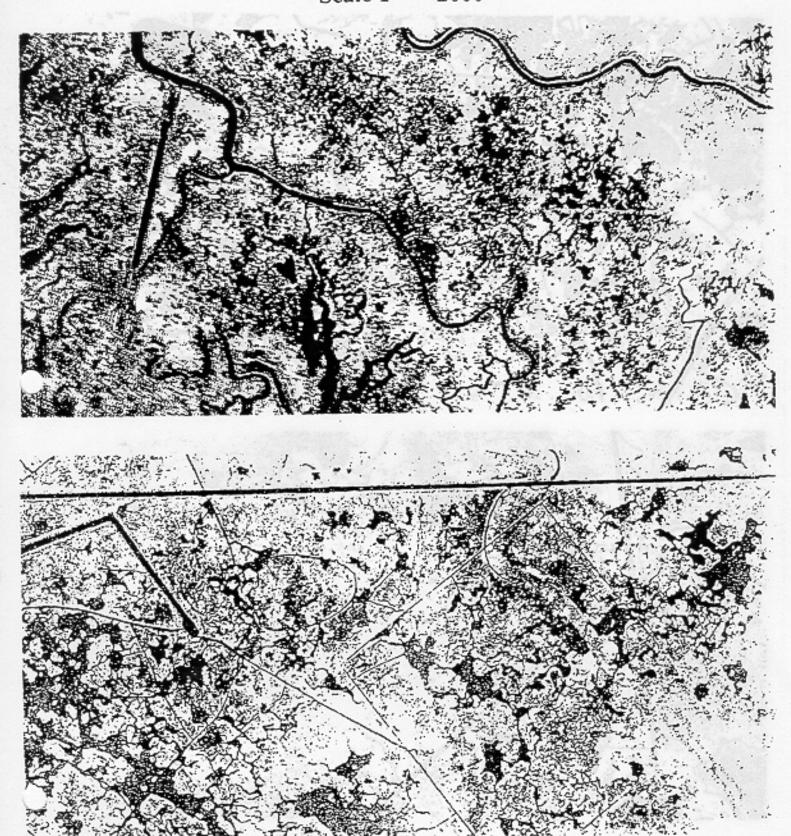
If ppt \geq 2.5, then SI = 0

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

Scale 1" = 2000'

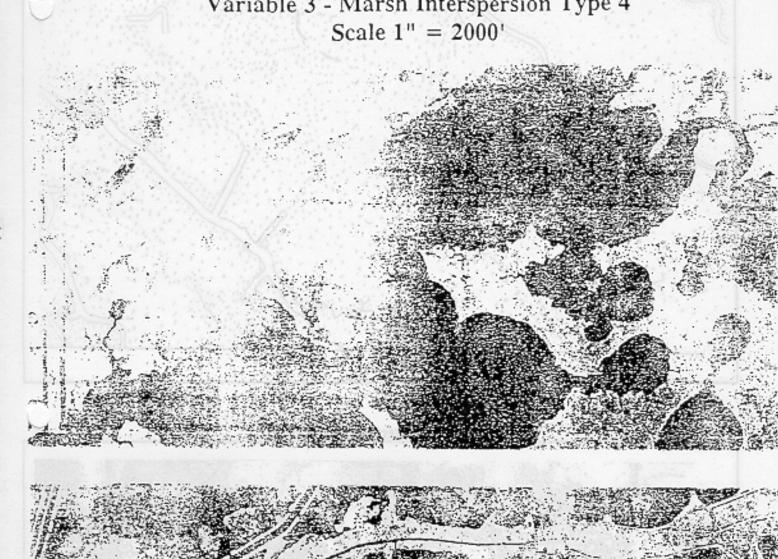
Attachment 5

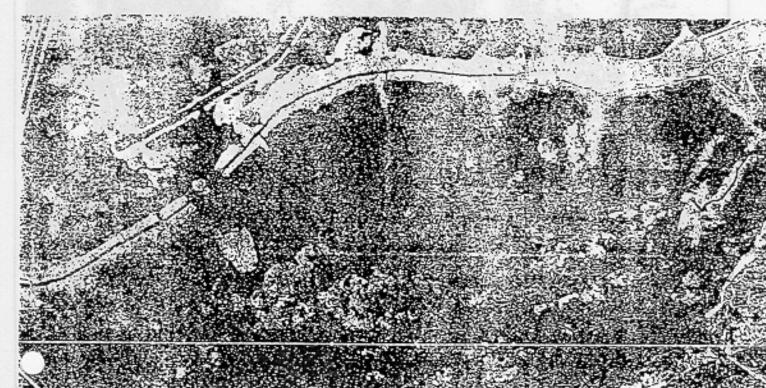
Variable 3 - Marsh Interspersion Type 2
Scale 1" = 2000'

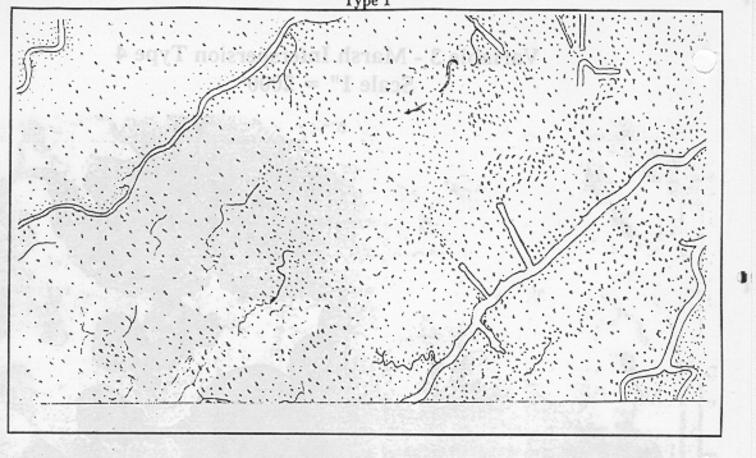


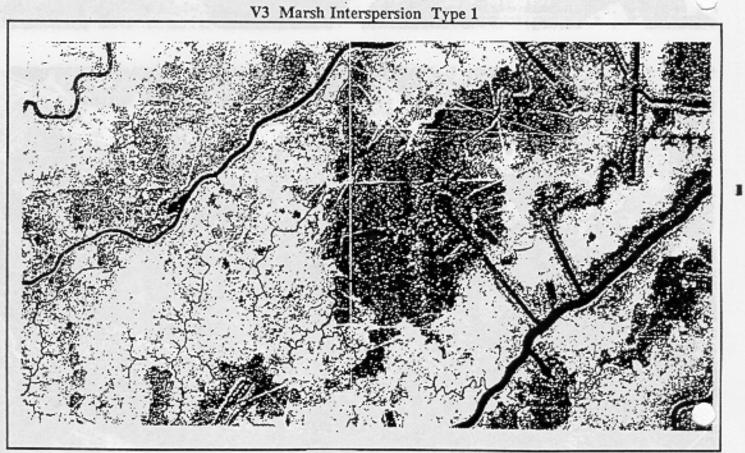
Scale 1" = 2000'

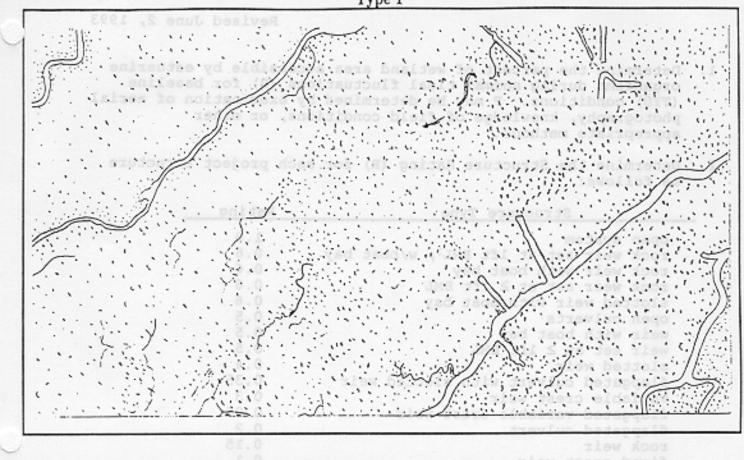












V3 Marsh Interspersion Type 3

B-43

- 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 rock weir set at lft BML¹, w/boat bay rock weir with boat bay rock weir set at ≥ lft BML slotted weir with boat bay open culverts weir with boat bay weir set at ≥ lft BML slotted weir flapgated culvert with slotted weir variable crest weir flapgated variable crest weir flapgated culvert rock weir fixed crest weir	1.0 0.8 0.6 0.6 0.5 0.5 0.5 0.2 0.3 0.25 0.2 0.15
solid plug	0.0001

¹ 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

1

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 levee 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 \times .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 x R1] + [P2 x R2])/(P1 + P2)

= ([.30 x 0.6] + [.60x1.01)/(.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.

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.

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

6th Priority Project List Report

Appendix C

Engineering Designs and Cost Estimates
For Candidate Projects

Appendix C

Engineering Designs and Cost Estimate, For Candidate Projects

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C-6	Marsh Island Hydrologic Restoration (TV5/7)
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C-8	Oaks/Avery Canals Hydrologic Restoration,
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<u>Legend</u>

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

Ite	m 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	Weir w/ Boatbay	1	LS	237,000.00	237,000.00
4	Plugs w/ Culverts @ Gates-Burton Canal	1	LS	224,500.00	224,500.00
5		1	LS	193,000.00	193,000.00
6	Rockliner in Black Bayou	1,280	TN	25.00	32,000.00
7	Replace Culverts & Rd.	1	LS	93,000.00	93,000.00
8	Rock Weir w/ Black Bayou @ Blocks Creek	1	LS	20,000.00	20,000.00
	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

^{*}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

I	tem	Description	Quantity	Unit	Unit Cost(\$)	Amount (\$)
	1	New Crevasse	13,333	CY	3.00	
		100'X6'X600'/27	,		3.00	40,000.00
	2	New Crevasse	7,778	CY	2.00	
		100'X6'X350'/27	.,,,,,	CI	3.00	23,335.00
	3	New Crevasse	2,222	CY		6,667.00
		100'X6'X100'/27	2,222	CI	3.00	
	4	New Crevasse	6,667	67 CY	3.00	20,000.00
		100'X6'X300'/27				
	5	New Crevasse	8,444	,444 CY	3.00	
		100'X6'X380'/27				25,332.00
	6	Mobilization Fee	1			
	7	Rehab of Existing	-	LS	60,000.00	60,000.00
	•	Crevasse	168,519	CY	3.00	505,556.00
		13'X100'X5'X700'/27				
		TOTAL				680,890.00

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

It	em Description	Quantity	Unit	Unit Cost(\$)	Amount (\$)
	l 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
	Rip Rap	19,200	TN	19.79	380,000.00
!	Bridge Relocations	1	LS	6,000,000.00	6,000,000.00
•	General Relocation	s 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

I	tem	Description	Quantity	Unit	Unit Cost(\$)	Amount (\$)
	1	Mob and Demob	1	LS	200,000.00	200,000.00
	2 a	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
	3 c	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 Adjacent to #3	2,000	LF	5.05	10,100.00
	6	Rear Closure #3	120	LF	9.90	1,188.00
	7	Earthen Closure @ Mouth of Canal #3	1,565	CY	2.00	3,130.00
	8a	Earthen Core #3	885	CY	2.00	1,770.00
i	d8	Geotextile #3	1,100	SY	2.50	2,750.00
1	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 Adjacent to #4	1,800	LF	5.05	9,090.00
:	11	Rear Closure #4	130	LF	6.75	877.50
:	12	Earthen Closure @ Mouth of Canal #4	1,340	CY	2.70	3,618.00
1	l3a	Earthen Core #4	740	CY	2.00	1,480.00
1	L3b	Geotextile #4	1,055	SY	2.50	2,637.50
1	l3c	2' Armor Stone #4	730	TN	22.60	16,500.00
1	l4a	Earthen Core #5	16,980	CY	2.00	33,960.00
1	l4b	Geotextile #5	9,345	SY	2.50	23,362.50
1	l4c	2' Armor Stone #5	4,550	TN	22.60	102,830.00
1	L5a	Earthen Core #6	750	CY	2.00	1,500.00
1	l 5 b	Geotextile #6	950	SY	2.50	2,375.00
1	L5c	2' Armor Stone #6	675	TN	22.60	15,255.00
1	16a	Earthen Core #7	1,550	CY	2.00	3,100.00
1	l6b	Geotextile #7	1,480	SY	2.50	3,700.00
1	l6c	2' Armor Stone #7	1,075	TN	22.60	24,295.00
1	17a	Earthen Core #8 & #9	775	CY	2.00	
1	17b	Geotextile #8 & #9	950	SY	2.50	1,550.00
1	.7c	2' Armor Stone #8 & #9	675	TN	22.60	2,375.00 15,255.00
•	18	Backfill Canal #9	47,000	·CY	1 70	50 000 00
	19	Refurbish Dikes	3,700	LF	1.70	79,900.00
		Around #9			5.05	18,685.00
•	20	Closure of Retention Dikes	8,000	LF	10.10	80,800.00
2	21	Dredging-Closure Construction	585,000	CY	1.30	760,500.00
	22	Filter Fabric	27,200	SY	2.50	68,000.00
2	23	12" Armor Stone	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	1	LS	528,000.00	528,000.00
	Bay (1-1)				000,000.00
3	Steel Sheetpile	1	LS	668,000.00	668,000.00
	Weir(1-2)				.,
4	Rock Weir w/ Barge	1	LS	528,000.00	528,000.00
5	Bay (1-3)				
•	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	LS		
	(1-10)	•	TO	181,000.00	181,000.00
9	Steel Sheetpile Weir	1	LS	101 000 00	
	(1-12)	-	113	181,000.00	181,000.00
10	Steel Sheetpile Weir	1	LS	181,000.00	191 000 00
	(1-13)			101,000.00	181,000.00
11	Rock Liner(A)	1	LS	28,000.00	28 000 00
12	Rock Weir w/ Barge	1	LS		28,000.00
	Bay (1-15)	1	T/2	528,000.00	528,000.00
13	Steel Sheetpile Weir	1	LS	254 444 44	
	(1-16)	4	TO	351,000.00	351,000.00
14	Rock Bank	3 600			
	Stabilization	3,600	LF	226.00	813,600.00
15	Rock Bank	59,600			
	Stabilization	33,600	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

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

Table C-8

Bstimated Construction Cost

Oaks/Avery Canal Hydrologic Restoration & Bankline Protection, XTV-25

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

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

Item	Description	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, &	1	LS	10,000.00	10,000.00
	Cleanup				
6	Pipeline Excavation	37,000	CY	5.86	217,00ď.00
7	Discharge Structure	38,900	CY	5.85	227,400.00
	Excavation				
8	Levee Embankment	32,600	CY	3.00	97,800.00
9	Sand Bedding &	26,500	CY	10.08	267,100.00
	Hauling				
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	171,100	CY	5.85	1,001,000.00
	Excavation				, , ,
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	960	LF	294.69	282,900.00
	Material				
16	Highway Crossing	960	LF	328.13	315,000.00
	Labor				220,000.00
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 &	1	LS	423,400.00	423,400.00
	Steel Details M&L				,
22	72" Pipe Structure	1	LS	109,000.00	109,000.00
	Installation				
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		•	222,223.00	8,867,900.00
					0,867,900.00

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

Item	Description	Quantity	Unit	Unit Cost(\$)	3
1	Modification of	1	LS	0.11 COSC (\$)	Amount (\$) 40,100.00
	Existing Outlet				40,100.00
2a	Armor Stone Addition	20,300	TN	22.00	448 444 44
2b	Filter Stone Addition	4,400	CY	· -	447,000.00
2c	Shell or Shell	12,300		31.00	136,000.00
	Substitude Addition	12,300	CX	24.00	29 5,000.00
3a	Removal and	315	LF	100.00	
	Relocation of	(Re-		100.00	32,000.00
	Sheetpile	used)			
3b	Removal and	105	LF	300.00	
	Relocation of	(New)	Dr		32,000.00
	Sheetpile	(1104)			
4	Clearing	5	AC	4 500 00	
5	Excavation of Small	5,500		4,520.00	24,000.00
	Cut	3,300	CY	4.00	22,000.00
6	Dredging & Disposal	24,000	CY		
	TOTAL	24,000	CI	2.00	48,000.00
					487,100.00

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

Item		Quantity	Unit	Unit Cost(\$)	
1	Enlarge Inflow	19,300	CY	2.60	Amount (\$)
2	Trenasse Enlarge Inflow Portion of St. Louis	136,800	CY	2.60	356,000.00
3	Canal 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.	1	LF	300,000.00	300,000.00
9	Louis Canal 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

	Item	Description	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	150,300.00	300,600.00
Unlimited	2	Augerhead (5' X 6")	2	LS	33,000.00	66,000.00
Aquamog SRX-	3	Clam Bucket (48")	2	LS	6,200.00	12,400.00
109	4	Dredge Trailer	2	LS	24,000.00	48,000.00
	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	2	LS	6,000.00	
	,	Discharge Pipe	2	10	8,000.00	12,000.00
		10171				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	82,000.00
Aquamog PRX-	3	Clam Bucket (48")	2	LS	6,200.00	12,400.00
163	4	Dredge Trailer	2	LS	40,000.00	80,000.00
	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	2	LS	14,000.00	28,000.00
		Discharge Pipe				20,000.00
		TOTAL				593,400.00
8 Aquatics	1	Dredge(6" SRX-109)	1	LS	175,500.00	175 500 00
Unlimited	2	Augerhead(5' X 6")	1	LS		175,500.00
Aquamog PRX-	3	Clam Bucket (48")	1	LS	41,000.00	41,000.00
163 (24 HR	4	Dredge Trailer	i	LS	6,200.00	6,200.00
operation)	5	17' Polar Skiff	1	LS	40,000.00	40,000.00
	6	Trucks	2	LS	10,000.00	10,000.00
	7	8" Polyethylene	1	LS	15,000.00	30,000.00
	•	Discharge Pipe	4	בת	14,000.00	14,000.00
	8	Lighting/Safety	1	LS	15,000.00	15,000.00
		Equipment TOTAL				331,700.00

Table C-13

Bstimated Construction Cost

Barataria Bay Waterway East Bank Protection, PBA-12b

I	tem	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 TOTAL	94,000	CX	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

Doed W	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	CY	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	
	2	Retention Dikes & Closures	9,000	LF	15.25	100,000.00 137,300.00
	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	100,000.0
	2	Retention Dikes & Closures	6500	LF	15.25	99,100.0
	3	Excavation and Placement of Dredged Material TOTAL	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	CY	0.90	468,000.0
		TOTAL				674,800.0
Stone Pond	1	Mob & Demob	1	LS	150,000.00	150,000.00
	2	Retention Dikes & Closures	11,000	LF	15.25	167,800.0
	3	Excavation and Placement of Dredged Material	1,650,000	CY	1.65	2,722,500.0
		TOTAL				3,040,300.0
Fresh- water	1	Mob & Demob	1	LS	250,000.00	250,000.0
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
8ite	2	Retention Dikes	22,000	LF	10.50	231,000.00
-	3	Dredging of Oilwells	85,000	CY	2.00	170,000.00
	4	Excavation and	11,000,00	CY	1.00	11,000,000.00
		Placement of Material	0		2.00	,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
		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	CY	4.00	26,667.00
	TOTAL				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 U	Jnit	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	1	LS	926,000	926,000
	Dredging (Incremental				
	Cost Above O & M Cost				
	of Navigation-Channel			•	
	Maintenance Base Plan				
	TOTAL				926,000

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

Trapping Season/ Fiscal Year	Year 1(1997-1998)	Year 2 (1998- 1999)	Year 3 (19	99-2000)	Year 5 (2001- 2002)
LDWF	80,000	100,000	100,000	70,000	50,000
Nutria Meat	100,000	100,000	50,000	50,000	
Marketing Plan					
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

^{(1) \$1.00} 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

^{(2) \$0.75} Per Pound of Nutria Meat Sold for Human Consumption

Coastal Wetlands Planning, Protection and Restoration Act

6th Priority Project List Report

Appendix D

Economics Computational Summary For Candidate Projects

Appendix D

Economics Computational Summary For Candidate Projects

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

25	0.097161602	\$6,316,800
Total Project Years	Amoritization Factor	Total Fully Funded Costs
ر ه .	7.38%	\$5,014,200
Project Construction Years:	Interest Rate	Total First Costs

Annual Charges	Present Worth	Average Annual
Interest & Amortization Monitoring O & M Costs Other Costs	\$5,341,700 \$303,500 \$141,500 \$5,100	\$519,000 \$29,500 \$13,700 \$500
Total	\$5,791,800	\$562,700
Average Annual Habitat Units		2,812
Cost Per Habitat Unit		\$200
Average Annual Acres of Emergent Marsh		2,084

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

First Costs and Annual Charges

n on Contingen:y Construc ion Cost	0\$ 0\$ 0\$ 0\$	\$0 \$150,000	0 \$0 \$348 ₀ · ·	8 \$666,240 \$2,6 (4,962 \$3,484,50)	2 \$121 135 \$ 538 \$645 E.C.		0 \$787,375 \$3,14 .10 \$4,628,865																							
Federal LDNR Supervision & Supervision Administration Administration & Inspection	\$ 0\$	\$ 0\$	\$26,246	\$31,495 \$42,308	\$19,249 \$7,692	İ	\$76,990 0,000																							
Federal Supervision & Administration	o,	0.7	\$66,250	\$79,500	\$13,250		\$159,000	Other	Costs	\$500	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$500	\$10,000
Easements & Land Rights	%	\$125,000	\$ 0	\$	\$ 0		\$125,000	O&M	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 & Design	0\$	\$25,000	\$256,000	%	\$		\$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 Year	1997	1998	1999	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	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	

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

	Prese	Present Valued Costs	its	Total Discounted Costs	ed Costs	\$5,791,934			Amortized Costs	s)	\$562,754
			i			Federal	LDNR				
	Year	Compound	Fiscal Year	Engineering & Design	Easements A. I and Rights	Supervision & Administration		Supervision		First Cost	Total First
ı	2	1.427	1997	05	0\$	5	CO CO CO	a mspection	Continger	Construction	Cost
	4	1.329	1998	\$33.232	\$166.159	3	9 9	04	2	0\$	0\$
	က	1.238	1999	\$316,920	05	\$82.015	£32 402	9	0.4	O.≯ €	\$199,390
	7	1.153	2000	S 0	S	\$91,659	436,432	040 770	040	0.5	\$431,427
1	-	1.074	2001	0,5) S	\$14,227	\$20,512	68.260	\$708,135 €130,068	\$3,072,538	\$4,017,421
		1	Total	\$350,152	\$166,159	\$187,901	\$89,472	\$57,038	\$898,203	\$3,592,811	\$5,341,736
		Discount	Fiscal	Monitorina	M&C	Other					
	Year	-	Year	Costs	Costs	Costs					
	7	0.931	2002	\$27,466	\$12.806	\$466					
D-	-5	0.867	2003	\$25,580	\$11,926	\$434					
3	ę.	0.808	2004	\$23,823	\$11,107	\$404					
	4	0.752	2005	\$22,187	\$10,344	\$376					
	ċ	0.701	2006	\$20,663	\$9,634	\$350					
	9-	0.653	2007	\$19,244	\$8,972	\$326					
	-	0.608	2008	\$17,922	\$8,356	\$304					
	æ	0.566	2009	\$16,691	\$7,782	\$283					
	6-	0.527	2010	\$15,544	\$7,247	\$264					
-	-10	0.491	2011	\$14,477	\$6,749	\$245					
	7	0.457	2012	\$13,482	\$6,286	\$229					
	-12	0.426	2013	\$12,556	\$5,854	\$213					
	-13	0.397	2014	\$11,694	\$5,452	\$198					
	-14	0.369	2015	\$10,891	\$5,078	\$185					
	-15	0.344	2016	\$10,143	\$4,729	\$172					
	-16	0.320	2017	\$9,446	\$4,404	\$160					
	-17	0.298	2018	\$8,797	\$4,102	\$149					
	-18	0.278	2019	\$8,193	\$3,820	\$139					
	-19	0.259	2020	\$7,630	\$3,557	\$129					
	-20	0.241	2021	\$7,106	\$3,313	\$120					
		Total	tal	\$303,536	\$141,517	\$5,146					
	4	Average Annual	=	\$29,492	\$13,750	\$500					

Costs amortized over 20 year operation life

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

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

Fully !	Fully Funded Costs		Total Fully Fun	Funded Costs	\$6,316,806			Amortized Costs	2	\$613,751
					Federal	LDNR				
	Inflation	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Year	Factor	Year	& Design	& Land Rights	Administration	Administration & Inspection	& Inspection	Confingency	Construction	Cost
5	1.000	1997	S.	S	0\$	0\$	0 \$	9	0\$	9
4	1.027	1998	\$25,675	\$128,375	\$	\$	%	%	0\$	\$154,050
က	1.055	1999	\$270,011	%	\$69,876	\$27,682	%	%	\$	\$367,569
7	1.083	2000	9	S	\$86,115	\$34,116	\$45,828	\$721,676	\$2,886,704	\$3,774,439
-	1.112	2001	3	S	\$14,733	\$21,403	\$8,553	\$134,691	\$538,764	\$718,144
)1	TOTAL	\$295,686	\$128,375	\$170,724	\$83,201	\$54,381	\$856,367	\$3,425,468	\$5,014,202
	Inflation	Fiscal	Monitoring	O&M	Other					
Year	Factor	Year	Costs	Costs	Costs	ı				
-	1.142	2002	\$33,694	\$15,709	\$571					
-5	1.173	2003	\$34,604	\$16,133	\$587					
ċ	1.205	2004	\$35,538	\$16,569	\$603					
4	1.238	2005	\$36,498	\$17,016	\$619					
ċ	1.271	2006	\$37,483	\$17,476	\$635					
ф	1.305	2007	\$38,495	\$17,948	\$653					
7-	1.341	2008	\$39,535	\$18,432	\$670					
ဆု	1.377	2009	\$40,602	\$18,930	\$688					
6	1.414	2010	\$41,698	\$19,441	\$707					
-10	1.452	2011	\$42,824	\$19,966	\$726					
÷	1.491	2012	\$43,981	\$20,505	\$746					
-12	1.532	2013	\$45,168	\$21,059	\$166					
-13	1.573	2014	\$46,388	\$21,627	\$786					
-14	1.615	2015	\$47,640	\$22,211	\$808					
-15	1.659	2016	\$48,926	\$22,811	\$829					
-16	1.704	2017	\$50,247	\$23,427	\$852					
-17	1.750	2018	\$51,604	\$24,059	\$875					
-18	1.797	2019	\$52,997	\$24,709	\$899					
-19	1.846	2020	\$54,428	\$25,376	\$923					
-20	1.895	2021	\$55,898	\$26,061	\$948					
		Total	\$878,250	\$409,465	\$14,890	ŧ				

Bayou Boeuf Pumping Station (XTE-32)

8	0.0971616	\$7,402,600
Total Project Years	Amoritization Factor	Total Fully Funded Costs
3	7.38%	\$5,268,100
Project Construction Years:	Interest Rate	Total First Costs

Average	\$509,400 \$29,500 \$26,400 \$500	\$565,800	1,678	\$337	NA
Present Worth	\$5,243,200 \$303,500 \$271,700 \$5,100	\$5,823,500			
Annual Charges	nterest & Amortization Monitoring O & M Costs Other Costs	otal	Average Annual Habitat Units	Cost Per Habitat Unit	Nerage Annual Acres of Emergent Marsh

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Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

Bayou Boeuf Pumping Station (XTE-32)

First Costs and Annual Charges

			i		Federal	LDNR				
		Flacta	Enoineering	Easements	Supervision &	Š	Supervision		First Cost	Total First
Year		You	& Design	& Land Rights	Administration	Administration & Inspection	& Inspection	Contingency	Construction	Cost
7	Commound	1997	S	3	8	S	9	.	3	3
	Commonweal	1998	\$471.428	S	2	3	3	2	\$	\$471,428
: 2	Commons	1999		\$	3	3	9	3	\$	S
!	Compound		S	8	3	2	%	3	\$	\$
: \$		200	3	8	3	3	%	3	%	\$
2 4	Compound	2002	3	3	\$	3	%	3	9	3
• «		2002	3	3	3	2	3	2	\$	O \$
۰ د		200	3	3	3	2	8	3	\$	3
- 4		2005	\$24,400	.	\$8,133	\$8,133	3	2	2	\$40,667
.	Commonical	9002	\$24,400	3	\$8,133		2	\$	2	\$40,667
> ◀	Community	2007	\$24.400	3	\$8,133		\$	\$	\$	\$40,667
۳	Commoning	2008	3	9	\$8,133	\$8,133	\$81,333	\$203,333	\$813,333	\$1,114,267
•		8002	3	3	\$8,133		\$81,333	\$203,333	\$813,333	\$1,114,267
-		2010	3	.	\$8,133	•	\$81,333	\$203,333	\$813,333	\$1,132,267
•	Base Year		•							
		TOTAL	\$544,628	\$	\$48,600	\$66,800	\$244,000	\$610,000	\$2,440,000	\$3,954,228
		Fiscal	Monitoring	OSM	Other					
Year	L	Year	Costs	Costs	Costs					
	Discount	2011	\$29,492	\$28,400	\$200	ı_				
	Discount	2012		\$26,400	\$200					
. 67	Discount	2013		\$26,400	\$200	_				
, ◀	Discount	2014			\$200					
· 457	5 Discount	2015		\$26,400	\$200					
. •	8 Discount	2016		\$26,400	\$200	_				
-	7 Discount	2017	\$29,492	\$26,400						
~	8 Discount	2018	\$29,492	\$26,400		_				
-	9 Discount	2019	\$29,487	\$26,400	\$500	,		;		
5		2020	•	\$26,400	\$200	•				
11		2021	•	\$26,400		•				
~	12 Discount	2022	\$29,492	\$26,400		•				
_	13 Discount	2023	\$29,492	\$26,400	\$200	0				
<u>~</u>	14 Discount	2024		\$26,400		0				
÷	15 Discount	2025	\$29,492		•	0				
Ť	16 Discount	2026	\$ \$29,492	\$26,400	\$500	6				

\$200	\$500	\$500	\$500	900
\$26,400	\$26,400	\$26,400	\$26,400	\$528 AM
\$29,492	\$29,492	\$29,492	\$29,492	\$589 840
7707	2028	8 202	2030	Total
		DISCOUNT	٠	•

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Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

Bayou Bosuf Pumping Station (XTE-32)

-					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	Construction	Cost
<u>*</u>	2.708	1961	9	0\$	0\$	3	9	3	2	9.
13	2.522	1998	\$1,166,931	3	2	2	%	9	8	\$1,188,931
12	2.349	1969	3	2	S	2	S	3	8	90
=	2.187	2000	2	3	2	2	\$	3	3	80
5	2.037	2001	3	\$	2	.	3	2	9	S
6	1.697	2002	3	3	3	3	S	3	S	Ş
60	1.767	2003	3	3	3	3	3	3	9	9
_	1.646	2004	2	3	2	3	3	2	9	9
9	1.533	2002	\$37,395	3	\$12,465	\$12,485		2	3	\$62,324
5	1.427	2006	\$34,826	3	\$11,609	\$11,609		.	3	\$58,044
•	1.329	2007	\$32,434	2	\$10,811	\$10,611	3	3	3	\$54,057
es	1.236	2008	3	2	\$10,069	\$10,069	\$100,688	\$251.720	\$1,006,881	\$1,379,427
2	1.153	2009	2	3	\$9,377	\$9,377	\$83,772	\$234,431	\$937.724	\$1,284,682
-	1.074	2010	2	3	\$8,733	\$28,061	\$87,332	\$218,329	\$873,317	\$1,215,771
	1-	Total	\$1,293,586	2	\$63,064	\$82,392	•	\$704,480	\$2,817,921	\$5,243,236
_	Discount	Fiscal	Monitoring	OBM	Other					
Year	Rates	Year	Costs	Costs	Costs					
-	0.931	2011	\$27,468	\$24,587	57					
7	0.867	. 2012	\$25,580	\$22,898	¥.	·				
ę,	0.808	2013	\$23,823	\$21,325	707					
7	0.752	2014	\$22,187	\$19,861	\$376					
က်	0.701	2015	\$20,663	\$18,496	098\$					
φ	0.653	2016	\$19,244	\$17,226	\$326					
-1	0.608	2017	\$17,922	\$16,043	\$ 30 4					
æ	0.586	2018	\$16,691	\$14,941	\$283					
\$	0.527	2019	\$15,544	\$13,915	\$264					
-19	0.401	2020	\$14.477	\$12,859	\$245					
÷	0.457	2021	\$13,482	\$12,00c	\$229				•	
-12	0.426	2022	\$12,556	\$11,240	\$213					
-13	0.397	2023	\$11,694	\$10,468	\$198					
-14	0.369	2024	\$10,891	\$9,749	\$185					
-15	0.344	2025	\$10,143	\$9,079	\$172					
-16	0.320	2028	\$9,446	\$8,458	\$160					
-17	0.298	7027	\$8 707	£7 A75	£140					

\$500	\$26.400	\$29,482		Verage Annual	∢
\$5,146	\$271,712	\$303,536			
\$120	\$6,361	\$7,106	868 88	0.241	Ŗ
\$129	\$6,830	\$7,630	2020	0.259	6
\$139	\$7,334	\$8 ,193	2028	0.278	9[-

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Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

Bayou Boeuf Pumping Station (XTE-32)

					Federal	LDNR				
	Inflation	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision	;	First Cost	Total First
Lear	Lactor	, car	& Design	& Land Kignis	Administration	Administration & Inspection	& Inspection	Contingency	Construction	Cost
=	1.025	1997	3	2	<u>\$</u>	3	9	2	3	3
5	1.027	1996	\$484 ,180	8	3	3	3	\$	3	\$484,180
12	1.066	1999	2	2	3	2	%	\$	2	2
=	1,083	2000	3	3	2	9	%	3	2	3
9	1.112	2001	2	2	\$	9	2	3	3	3
O	1.143	2002	3	3	3	\$	S	3	3	9
•	1.173	2003	3	3	8	\$	3	S	3	3
1	1.205	2004	3	3	.	\$	S	3	3	3
9	1.238	2002		3	\$10.066	\$10,066	2	2	3	\$50.330
2	1.271	2006	\$31,013	3	\$10,338	\$10,338	2	2	3	\$51,688
4	1.305	2007	\$31,850	2	\$10,617	\$10,617	3	3	S	\$53.084
೮	1.34	2008	3	3	\$10,903	\$10,903	\$109,035	\$272.587	\$1,090,346	\$1,493,775
8	1.377	2008	S	8	\$11,198	\$11,198	\$111,979	\$279.946	\$1,119,786	\$1 534 106
-	1.414	2010	3	3	\$11,500	\$36,951	\$115,002	\$287,505	\$1,150,020	\$1,600,979
•		TOTAL	\$577,241	8	\$64,622	\$90,073	\$336,015	\$840,038	\$3,360,152	\$5,268,142
	Inflation	Fiscal	Monitoring	OGM	Other					
Year	Factor	Year	Coets	Costs	Costs					
-	1.452	2011	\$42,826	\$38,336	\$726					
?	1.491	2012	\$43,983	\$39,371	\$746					
ņ	1.532	2013	\$45,170	\$40,434	\$766					
7	1.573	2014	\$46,390	\$41,528	\$786					
47	1.615	2015	\$47,642	\$42,647	\$808					
φ	1.659	2016	\$48,929	\$43,799	\$830					
-7	1.704	2017	\$50,250	\$44,981	\$852					
8	1.750	2018	\$51,607	\$46,198	\$875					
ဓှ	1.797	2019	\$53,000	\$47.443	\$899					
0	1.84R	2020	\$54,431	\$48,724						i
F	1.895	2021	\$55,901	\$50,040						
-12	1.947	2022	\$57,410		\$973					
-13	1.999	2023	\$58,960	•	\$1,000			٠		
+	2.053	2024	\$60,552		\$1,027					
-15	2.109	2025	\$82,187							
-16	2.166	2026	\$63,866							
,			•							

\$1,142 \$1,173 \$1,205	
81 \$60,299 80 \$61,927 48 \$63,589	\$000 240
\$67,361 \$69,180 \$71,048	\$1,118,281
202 8 2030 2030	
2.284 2.346 2.409	
÷ ÷ ÷	

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

		•	
Project Construction Years:	**************************************	Total Project Years	34
Interest Rate	7.38%	Amoritization Factor	0.0971616
Total First Costs	\$577,600	Total Fully Funded Costs	\$2,961,900
Annual Charges	Present	Average	ļ
Interest & Amortization	\$1,281,600	\$124,50	00
Monitoring O & M Costs	\$303,500 \$339,600	\$29,500 \$33,000	88
Offher Costs	\$5,100	098	8
Total	\$1,929,800	\$187,500	8
Average Annual Habitat Units		1,458	28
Cost Per Habitat Unit		\$129	5 8
Average Annual Acres of Emergent M	Marsh	z	N/A

Bayou Boeuf Pumping Station Increment 1 (XTE-32)

First Costs and Annual Charges

	Total First	168 1 830	1807	0.4	\$471,428	<u>\$</u>	9	9	3	3	\$ \$	04 VE	44,900	000.4.4	008,414	\$2,640	\$2,640	\$20,640	\$542,228														
	First Cost	Constandion		2		%	%	9	9	S	3	3	\$ 5	•	2	3	3	%	3														
		Continuence	(a)	•		2	\$	S.	9	9	S	S	8	\$ 5	3 5		2	9	0\$														
	Supervision	S Inspection	9	3 5	•	3	03	9	\$	3	9	9	OS.	S	9	3	2	2	20														
LONR	Supervision & Supervision	Administration & Inspection Continuency	S	\$ \$	3 5	3 8	3	2	3	\$	2	\$1,760	\$1,760	\$1.780	51 760	\$1.760	001.10	097,814	\$28,560														-
Federal	Supervision &	Administration	OS	S	5		2	2	%	9	%	\$880	\$880	\$880	\$880	5880		0000	\$5,280	Other	Costs	\$500	\$500	\$500	\$500	\$500	\$200	\$500	0093	\$200	\$500	\$500	\$200
	Easements	& Land Rights	3	S	S	\$	2		9	9	9	9	3	S	9	80		•	0\$	O&M	Costs	\$33,000	\$33,000	\$33,000	\$33,000	\$33,000	\$33,000	\$33,000	いついい	\$33,000	\$33,000	\$33,000	\$33,000
	Engineering	& Design	O \$	\$471,428	8	\$	3 5	2 3	2	9	9	\$12,320	\$12,320	\$12,320	2	3	5	}	\$508,388	Monitoring	Costs	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,403	\$29,492	\$29,492	\$29,492	\$29,492
	Fiscal	Year	1997	1998	1999	2000	200	1003	2002	2002	2007	2002	2006	2002	2008	2008	2010		TOTAL	Fiscal	Year	2011	2012	2013	2014	2015	2018	2017	20 iš	2019	2020	2021	2022
	;	- 1	14 Compound	13 Compound	12 Compound	11 Compound	10 Compound			a Compound	Compound	6 Compound	5 Compound	4 Compound	3 Compound	2 Compound	1 Compound	Base Year			ŀ	1 Discount	2 Discount	3 Discount	♣ Discount	5 Discount	6 Discount	7 Discount	8 Discours	9 Discount	0 Discount		12 Discount
	5	Year	•	• -	•-	,	~														Year								•		_	_	

2	2	2	2	9	دِ	9	9	ļ,
\$50	\$ 20	\$50	9 20	22 22	\$50	. S	\$200	¢10 00
\$33,000	ì	•	413,000	\$33,000	\$33,600	\$33,000	\$33,000	SEED OND
\$29,492	\$29,492	\$29,492	\$29,492	\$29,492	\$29,482	\$29,492	\$29,492	\$589.840
2023	2024	2025	2026	2027	2028	2029	2030	Total
	14 Discount	*	Discount	Discount	Diecour.:	Discount	Discount .	
2	7		\$	17	8 2	6	2	

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

					\$41,928,083			Amortized Costs	ક્ષ	\$187,511
				J	Federal					
Year	Compound	Fiscal Year	Engineering & Desion	& Land Richts	Supervision & Administration	Supervision & Supervision & Supervision Administration Administration Administration & Increasion	Supervision & Inspection	Confingacy	First Cost	Total First
=	2.708	1997	2	3	05	0\$	05	Callo Branch	CONSTRUCTION OF THE PARTY OF TH	1802
13	2.522	1998	\$1,188,931	S	3	S	S	S		41 188 031
12	2.349	1988	2	3	9	9	90	90		
Ξ	2.187	2000	3	8	S	S	S	9		
2	2.037	2001	2	\$	3	S	<u> </u>	9	S	8
\$	1.897	2002	2	\$	9	%	S	S	S	9
€	1.767	2003	S	2	%	%	%	\$	S	05
1	1.646	2004	&	≈	ॐ	8	\$	0\$	9	05
9	1.533	2002	\$18,881	3	\$1,349	\$2,697	0\$	3	9	729.927
5	1.427	2006	\$17,584	2	\$1,256	\$2,512	0\$	3	08	\$21.352
4	1.329	2007	\$16,377	3	\$1,176		80	3	G.	\$19.886
(T)	1.238	2008	9	3	\$1,089		S	3	9	\$3.268
~	1.153	2008	9	\$	\$1,015	\$2,029	9	S	OS S	53.044
-	1.074	2010	9	\$	\$945	\$21,217	9	S	9	\$22,162
	 -	Total	\$1,241,773	3	\$6,823	\$32,974	0\$	9	0\$	\$1,281,571
	Discount	Fiscal	Monitoring	06M	Other					
Year	Rates	Year	Costs		Costs					
7	0.931	2011	\$27,466	l	\$466					
7	0.867	2012	\$25,580		2638					
7	0.808	2013	\$23,823		\$404					
Ŧ	0.752	2014	\$22,187		\$376					
κ	0.701	2015	C20 RR1		€3E0					

£21.533 £128																						40 \$5.146		905
Z	! !	3	S18		21	616	2 ·	\$15.	717		25.	\$13			410.		3	CON		3	\$7.9	\$339,640		25,000
\$19,24A	\$17 922	7700	₹16.691	C45 644	46.010	\$14.477	42 42	13,502	\$12,558	£11 B04		\$10,091	640 443	410,143	29.446	101 00	2.2	55.153	67.000	000'	\$7,106	\$303,536	420 400	784'074
Ş	2017		5	2010		2020	3424	707	2022	2023		2024	202	4040	2026	7002	7	2028	2000	2020	9507			•
2	9 09.0	9 6		0.527	46.		0.457	9	64.5	0.397	950		0,34		0.360	957.0	9000	9/7:0	0.259	0 244		Total	Average Annual	
, ,	7	4	•	7	\$	2	:7	5	<u>4</u> :	÷	7	֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֓֡֓֓֓֡֡֡֓֡֓	.	46	2	:	•	9	9	Ş	7		Ž	

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Coastal Wetlands Conservation and Restoration Plan Priority Project List Vi

Delta Wide Crevasses (PMR-10)

\$	2 0000	0.087 1010	93,473,900
Total Project Years	Amoritization Factor	Total Fully Funded Costs	
(5	7.38%	\$1,156,900	
Pojed Construction Years:	Interest Rate	Total First Costs	

Average	\$115,800 \$29,500	0058	\$270,400	927	\$ 292	1,229
Present Worth	\$1,192,000 \$303,500 \$1,282,500	\$5,100	\$2,783,100			
Arnual Charges	Interest & Amortization Monitoring O & M Costs		Total	Average Annual Habitat Units	Cost Per Habitat Unit	Average Annual Acres of Emergent Marsh

Delta Wide Crevasses (PMR-10)

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					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	Sost
S	Compound		\$	\$	%	⋧	0 \$	2	3	9
4	Compound		~	\$	%	2	%	2	9	%
n	Compound	1997	\$25,000	\$20,000	3	2	\$	9	2	\$45,000
7	Compound	1998	\$34,050	\$	\$2,724	\$3,686	\$	2	3	\$40,460
_	Compound	1999	\$51,075	%	87,491	\$24,138	\$68,100	\$172,804	\$691,215	\$1,014,823
:	Base Year							•		•
		TOTAL	\$110,125	\$20,000	\$10,215	\$27,824	\$68,100	\$172,804	\$691,215	\$1,100,283
		Fiscal	Monttoring	OGM	OFF					
Year		Year	Costs	Costs	Costs					
-	Discount	2000	\$29,492	3	\$500					
7	Discount	2001	\$29.492	9	\$500					
6	Discount	2002	\$29,492	\$	\$500					
•	Discount	2003	\$29,492	\$	\$200					
S	Discount	2004	\$29,492	\$835,272	\$500					•
9	Discount	2005	\$29,492	2	\$500					
7	Discount	2008	\$29,492	\$	\$500					
∞	Discount	2007	\$29,492	2	\$200	•				
®	Discount	2008	\$29,492	\$	\$200					
2	Discount	2008	\$29,492	\$835,272	\$500					
=	Discount	2010	\$29,492	\$	\$200					
12	Discount	2011	\$29,482	3	\$500					
13	Discount	2012	\$29,492	2	\$200					
7	Discount	2013	\$29,492	2	\$200					
15	Discount	2014	\$29,492	\$835,272	\$200					
18	Discount	2015	\$29,492	3	\$200					
17	Discount	2018	\$29,492	3	\$200					
18	Discount	2017	\$29,482	3	\$200					
19	Discount	2018	\$29,482	2	\$200					
8	Discount	2019	\$29,492	S	\$200					
	-	Total	\$589,840	\$2,505,816	\$10,000	ı				

Costs amortized over 20 year operation life

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

* ...

Delta Wide Crevasses (PMR-10)

Year Rates Foreground First Cost First Cost Total First Cost	700	Presvnt Valuea Costs		Tole: Discum	iscounted Costs	\$2,783,196			Amortized Costs	2	\$270,419
1,427 0 2,40 2,		Company	62. []	Formanda	u d	Federal					
1427 0 50 50 50 50 50 50 50	Year	Rakes	Year	& Design	& Land Rights	Supervision & Administration	Supervision &	Supervision		First Cost	Total First
1.329 10 40 40 40 40 40 40 40	5	1.427	0	S	OS C		LOUDINGHIMING	anspection	- 1	Construction	Cost
1.236 1997 \$30,946 \$24,759 \$70	4	1.329	•	9	S	3 5		2	2	%	S
1.153 1996 \$39,268 \$71,41 \$41,250 \$1	3	1.238	1997	\$30.949	\$24 750	9	2	0.5	\$	%	\$0
Total 1999 \$54,042 \$70 \$31,141 \$45,918 \$73,122 \$185,548 \$742,192 \$11,184 \$20,188 \$73,122 \$185,548 \$742,192 \$11,184 \$150,048 \$73,122 \$185,548 \$742,192 \$11,184 \$10,188 \$10,18	~	1.153	1998	\$30.25B	601,120		2	0	2	%	\$55,709
Today \$125,049 \$24,759 \$11,184 \$131,122 \$185,548 \$1742,192 \$185,548 \$1742,192 \$185,548 \$1742,192 \$185,548 \$1742,192 \$185,548 \$1742,192 \$185,548 \$1742,192 \$185,548 \$1742,192 \$1744,192 \$1742,192 \$1744,192	-	1.074	1988	S54 R42	2 5	141,54	\$4 ,250	9	S	%	\$46,648
Page of the color		1	\	£425.040	0	30,043	816,524	\$73,122	\$185,548	\$742,192	\$1,089,686
Discount Fiscal Montion Oda Rates Year Costs Costs 0.831 2000 \$27,466 Costs 0.867 2001 \$25,580 \$20,683 0.808 2002 \$23,823 \$20,663 0.701 2004 \$20,663 \$585,21 0.701 2004 \$20,663 \$585,21 0.568 2005 \$19,244 \$20,663 0.568 2005 \$11,922 \$10,01 0.568 2007 \$16,891 \$10,01 0.568 2007 \$16,891 \$10,01 0.426 2010 \$13,482 \$10,01 0.426 2011 \$11,694 \$10,01 0.397 2012 \$11,694 \$10,01 0.369 2013 \$10,143 \$287,26 0.320 2014 \$10,143 \$287,26 0.298 2017 \$1,069 \$1,24,60 0.259 2017 \$1,000 \$1,24,60		-	8	60°CZ 6	\$24,759	\$11,184	\$30,168	\$73,122	\$185,548	\$742,192	\$1,192,023
Rates Year Costs Costs 0.867 2000 \$27,466 0.867 2001 \$25,580 0.867 2002 \$23,823 0.701 2004 \$20,663 \$585,21 0.701 2004 \$20,663 \$585,21 0.653 2005 \$19,244 \$10,01 0.658 2005 \$17,922 \$10,01 0.568 2007 \$16,891 \$10,01 0.568 2007 \$16,891 \$10,01 0.457 2008 \$14,477 \$410,01 0.457 2010 \$11,694 \$10,01 0.397 2012 \$11,694 \$10,01 0.369 2013 \$10,491 \$287,26 0.320 2014 \$10,143 \$287,26 0.298 2017 \$8,195 \$20,01 0.259 2017 \$124,60 \$124,60 0.241 \$303,536 \$1,24,60 \$124,60 \$124,60 \$124,60 <td></td> <td>DISCOUNT</td> <td>Fiscal</td> <td>Monttoning</td> <td>O&M</td> <td>Other</td> <td></td> <td></td> <td></td> <td></td> <td></td>		DISCOUNT	Fiscal	Monttoning	O&M	Other					
0.831 2000 \$27,466 0.867 2001 \$25,580 0.867 2002 \$23,823 0.23 0.752 2003 \$22,187 0.752 2003 \$22,187 0.752 2005 \$19,244 0.853 2006 \$17,922 0.568 2007 \$16,891 0.558 2007 \$16,891 0.457 2010 \$11,694 0.389 2013 \$10,143 \$287,26 0.389 2013 \$10,143 \$287,26 0.369 2017 \$10,143 \$287,26 0.369 2017 \$10,143 \$287,26 0.369 2017 \$10,143 \$287,26 0.369 2017 \$10,143 \$287,26 0.298 2018 \$7,106 \$8,797 \$10,143 \$1,262,48 \$1,263 \$1,262,48 \$1,263,492 \$1,262,48 \$1,262,48 \$1,263,492 \$1,248,60		Rates	Year	Costs	Costs	Costs					
0.867 2001 \$25,580 0.808 2003 \$22,187 0.752 2003 \$22,187 0.701 2004 \$20,663 \$585,21 0.653 2005 \$19,244 0.608 2006 \$17,922 0.566 2007 \$16,691 0.527 2008 \$115,544 0.457 2010 \$115,646 0.397 2011 \$12,556 0.397 2012 \$11,694 0.369 2013 \$10,143 \$287,26 0.320 2017 \$10,143 0.298 2017 \$8,195 0.298 2018 \$7,630 0.241 2019 \$7,106 \$1,262,48 Total \$2017 \$8,195 0.259 2018 \$7,106 \$1,262,48	ı	0.831	2000	\$27.466	1	CARR					
0.808 2002 \$23,823 0.752 2003 \$22,187 0.701 2004 \$20,663 \$585,21 0.653 2005 \$19,244 0.608 2006 \$17,922 0.566 2007 \$16,891 0.577 2008 \$15,544 0.457 2010 \$114,477 \$410,01 0.457 2010 \$13,482 0.369 2011 \$12,556 0.344 2014 \$10,143 \$287,26 0.320 2015 \$9,446 \$1 0.244 2017 \$6,195 0.259 2017 \$6,195 0.259 2018 \$7,630 0.259 2018 \$7,630 0.259 2018 \$7,630 0.259 2018 \$7,108 \$1,262,48	.5	0.867	2001	\$25,580	S	24.2					
0.752 2003 \$22,187 0.701 2004 \$20,663 \$585,21 0.853 2005 \$19,244 0.608 2006 \$17,922 0.566 2007 \$16,891 0.527 2008 \$15,544 0.457 2010 \$114,477 \$410,01 0.457 2010 \$11,694 0.397 2011 \$12,556 0.397 2012 \$11,694 0.344 2014 \$10,143 \$287,26 0.320 2015 \$8,787 0.259 2016 \$8,787 0.259 2018 \$7,630 0.259 2018 \$7,106 \$1,262,48 Total \$303,536 \$1,262,48	6	0.808	2002	\$23.823	S	2404					
0.701 2004 \$20,663 \$585,21 0.853 2005 \$19,244 0.808 2006 \$17,922 0.568 2007 \$16,891 0.527 2008 \$15,544 0.491 2009 \$14,477 \$410,01 0.457 2010 \$13,482 0.397 2011 \$12,556 0.397 2012 \$11,694 0.369 2013 \$10,891 0.344 2014 \$10,143 \$287,26 0.259 2015 \$8,797 0.259 2016 \$8,797 0.259 2018 \$7,106 \$1,262,48 Total \$2019 \$7,106 \$1,262,48	7	0.752	2003	\$22.187	S	6278					
0.653 2005 \$19,244 6 60.008 2008 \$17,922 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ċ	0.701	2004	\$20,663	\$585,210	8350					
0.608 2006 \$17,922 \$10.568 0.568 2007 \$16,691 \$10.568 0.527 2008 \$15,544 \$10,01 0.457 2010 \$13,482 \$10,487 2011 \$12,556 \$10,397 2012 \$11,694 \$10,320 2013 \$10,691 \$10,143 \$287,26 0.320 2015 \$9,446 \$10,259 2017 \$10,60 \$1,262,48 \$10,201 \$10,143 \$29,492 \$1,262,48 \$10,259 \$1,262,48 \$1,262,4	φ	0.653	2005	\$19,244	9	5 326					
0.568 2007 \$16,691 \$ 0.527 2008 \$15,544 \$ 0.491 2009 \$14,477 \$410,01 \$ 0.426 2011 \$12,556 \$ 0.397 2012 \$11,694 \$ 0.369 2013 \$10,143 \$287,26 \$ 0.320 2014 \$10,143 \$287,26 \$ 0.298 2015 \$9,446 \$ 0.298 2017 \$8,195 \$ 0.298 2017 \$8,195 \$ 0.298 2018 \$7,630 \$ 0.241 2019 \$7,106 \$ \$ Average Amual \$29,492 \$124,60	-	0.608	. 2008	\$17,922	3	2 30 4					
0.527 2008 \$15,544 \$10,01 0.491 2009 \$14,477 \$410,01 0.457 2010 \$13,482 \$10,020 0.307 2012 \$11,694 \$10,030 0.308 2013 \$10,891 \$10,030 0.344 2014 \$10,143 \$287,26 0.320 2015 \$9,446 \$10,0298 0.298 2017 \$8,195 \$10,000 \$1	æ	0.566	2007	\$16,691	3	\$283					
0.491 2009 \$14,477 \$410,01 0.457 2010 \$13,482 0.426 2011 \$12,556 0.397 2012 \$11,694 \$0.344 2014 \$10,143 \$287,26 0.320 2015 \$9,446 \$10,296 0.275 2017 \$6,195 0.275 2018 \$7,630 \$0.241 2019 \$7,106 \$1,262,48 Average Amnual \$20,492 \$124,600	ዋ	0.527	2008	\$15,544	S	Soft					
0.457 2010 \$13,482 \$10,426 2011 \$12,556 \$10,894 \$10,389 2013 \$10,891 \$10,389 2013 \$10,891 \$10,320 2014 \$10,143 \$287,26 \$10,298 2015 \$8,787 \$10,259 2018 \$7,630 \$10,241 2019 \$7,106 \$1,262,48 \$1,262,	우	0.491	2009	\$14,477	\$410.012	\$245					
0.426 2011 \$12,556 \$ 0.369 2013 \$11,694 \$ 0.369 2013 \$10,891 \$ 0.344 2014 \$10,143 \$287,26 0.320 2015 \$9,446 \$ 0.298 2016 \$8,797 \$ 0.275 2017 \$6,195 \$ 0.259 2018 \$7,630 \$ 0.241 2019 \$7,106 \$ Average Amual \$303,536 \$1,262,48	÷	0.457	2010	\$13,482	98	\$229					
0.369 2012 \$11,694 \$ 0.369 2013 \$10,891 \$ 0.344 2014 \$10,143 \$287,26 0.320 2015 \$9,446 \$ 0.286 2016 \$8,787 \$ 0.275 2017 \$6,195 \$ 0.259 2018 \$7,630 \$ 0.241 2019 \$7,106 \$ Average Amual \$303,536 \$1,262,48	-15	0.426	2011	\$12,558	9	\$213					
0.369 2013 \$10,891 \$ 0.344 2014 \$10,143 \$287,26 0.320 2015 \$9,446 \$ 0.298 2016 \$8,787 \$ 0.275 2017 \$8,195 \$ 0.259 2018 \$7,630 \$ 0.241 2019 \$7,106 \$ Average Annual \$303,536 \$1,282,48	-13	0.397	2012	\$11,694	9	\$198					
0.344 2014 \$10,143 \$287,26 0.320 2015 \$9,446 \$ 0.286 2016 \$8,797 \$ 0.275 2017 \$8,195 \$ 0.259 2018 \$7,630 \$ 0.241 2019 \$7,106 \$ Average Amual \$29,492 \$124,60	4	0.369	2013	\$10,891	S	6185					
0.320 2015 \$9,446 \$ 0.288 2016 \$8,797 \$ 0.275 2017 \$8,195 \$ 0.259 2018 \$7,630 \$ 0.241 2019 \$7,106 \$ Total \$303,536 \$1,282,48	-15	0.344	2014	\$10,143	\$287.263	\$173					
0.298 2016 \$8,787 \$ 0.275 2017 \$8,195 \$ 0.259 2018 \$7,630 \$ 0.241 2019 \$7,106 \$ Total \$303,536 \$1,282,48	. 18	0.320	2015	\$9.446	S	618 0					
0.259 2017 \$6,195 \$5 0.259 2018 \$7,630 \$ 0.241 2019 \$7,106 \$ Total \$303,536 \$1,262,48 Average Annual \$29,492 \$124,60	-17	0.298	2016	\$8.797	3 3	\$140					
0.259 2018 \$7,630 \$ 0.241 2019 \$7,106 \$ Total \$303,536 \$1,262,48 Average Annual \$29,492 \$124,60	3.	0.275	2017	\$ 8,190	C.	\$130					
0.241 2019 \$7,106 \$ Total \$303,536 \$1,282,48 Average Annual \$29,492 \$124,60	-19	0.259	2018	\$7,630	9	\$129					
Total \$303,536 \$1,282,48 Average Amual \$29,492 \$124,60	-50	0.241	2019	\$7,106	. 3	\$120					
Average Amual \$29,492 \$124,60		ĭ	otal	\$303,536	\$1,282,485	\$5,148					
	-	Average Amu	Į g	\$29,492	\$124,608	\$500					
	4/97				Ć	4	•				

4/14/97

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

Delta Wide Crevasses (PMR-10)

	•		ı		Federal	LDNR				
Year	Factor	Fiecal Year	Engineering & Design	Easements			Supervision		First Cost	Total First
5			21	a Laird Nigilis	_ 1	Administra	& Inspection	Contingency	Construction	Cost
•		•	3	2	2	S	3	S	\$	5
•	•	•	S S	<u>\$</u>	%	0\$	Ş	\$		•
n	1.000	1997	\$25,000	\$20.000	S	5	3		2	0
ç	1.027	1998	\$34.969	5	60 700		2	3	S	\$45,000
	1.055	000	663 670		94,730	\$3,780	2	%	<u></u>	\$41,553
	- 1	TOTAL	0/9/00	2	\$7,901	\$25,459	\$71,827	\$182,261	\$729.045	\$1 070 383
	ر -	Ę	\$113,840	\$20,000	\$10,699	\$29,245	\$71,827	\$182,261	\$729,045	\$1,156,916
	Inflation	Flacal	Monitoring	O.S. Li	a di la					•
Year	Factor	Yeer	Costs	2	1 to 1					
+	1.083	2000	\$31.946	Ş	6640					
-5	1.112	2001	CBZ CES	8 8	750					
7	1.142	2002	S33 694	3 5	0004					
4	1.173	2003	\$34 604	S	2035					
က်	1.205	2004	\$35.538	\$1 008 517	/00 4					
φ	1.238	2002	\$36,498	S	\$					
-1	1.271	2006	\$37.483	S	CR15					
ထု	1.305	2007	\$38,495	S	6 653					
o-	1.341	2008	\$39,535	9	\$670					
-10	1.377	2009	\$40,602	\$1,149,835	SARA					
-	1.414	2010	\$41.698	S	202					
-15	1.452	2011		S	\$726					
-13	1.491	2012	\$43,981	S	\$746 \$746					
7	1.532	2013	\$45,168	S	4788					
-15	1.573	2014	\$48.38A	\$1.313.788	\$700 9478					
-16	1.615	2015	\$47.640		002					
-11	1.659	2016	\$48,926	9	828					
-18	1.704	2017	\$50,247		3.04					
-19	1.750	2018	\$51,604	S	\$875					
-50	1.797		\$52,997	S	\$88 3					
	Total	। 'ਗ	\$832,663	\$3,470,239	\$14,117					

Delta Wide Crevasses (PMR-10 - I)

Average	\$36,800	\$500	000'96\$	315	\$306	146
Present	\$378,700 \$212,500 \$395,300	\$5,100	\$991,600			
Aumusi Charges	Interest & Amortization Monitoring O & M Costs	Other Costs	Tokal	Average Amual Habitat Units	Cost Per Habitat Unit	Average Annual Acres of Emergent Marsh

Costs amortized over 20 year operation life

Delta Wide Crevasses (PMR-10 - I)

First Costs and Annual Charges

				I	Federal	LONR				
Year	_	Tiacay Xear	Engineering £ Declar	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
45	Compound		I Company	S Land Rognis	Administration	Administration & Inspection	k Inspection	Contingency	Construction	Cost
•	Compound		3 3	2	9	3	9	95	S	9
	_	1000	3	%	\$	2	9	S	\$ \$	•
, (3	\$25,000	\$10,000	\$	3	03	\$ 5		
٧,		2000	\$9,722	2	2800	\$1.053	S	3 5		000,004
-	Base Year	5	\$14 ,584	≎	\$2,200	\$16,896	\$19,445	\$49,361	\$197,445	\$11,575
	1	TOTAL	440 200	910 000				į		•
			Onc'eL	000'01¢	\$3,000	\$17,949	\$19,445	\$49,361	\$197,445	\$346.508
		Fiscal	Monitoring	2	į					
Year	•	Year	4800							
-	Discount	2000	\$20 BAK	- 1	C05(8					
2		2007	2000	3 (000					
i c		- ANS	260.026	2	\$500					
? `	DISCOURT	2002	\$20,645	2	\$200					
₹ .	Discount	2003	\$20,645	2	S 500					
S.	Discount	2007	\$20,645	\$257,445	\$500					
9	Discount	2002	\$20,645	S	200					
7	Discount	2006	\$20,645	S	9					
&	Discount	2007	\$20,645	S	25.00					
Ø	Discount	2008	\$20,645	S	\$500 500					
2	Discount	2008	\$20,645	\$257 445	95					
7	Discount	2010	\$20,645	95	2500					
12	Discount	2011	\$20,645	S	250					
13	Discount	2012	\$20,645	3	900					
Ξ	Discount	2013	\$20,645	S	£505					
15	Discount	2014	\$20,645	\$257 445	900					
16	Discount	2015	\$20,645	S	2500					
47	Discount	2016	\$20,645	CS	2003					
18	Discount	2017	\$20,645	S	200					
19	Discount	2018	\$20,645	\$	001					
20	Discount		\$20,645	3	000					
	יר	Total	\$412,900	\$772,335	\$10,000					
					1)111.					

Costs amortized over 20 year operation life

Delta Wide Crevesses (PMR-10 - i)

9 2 3	Present Valued Costs		Total Discounted Costs	ed Costs	\$991,636			Amortized Costs	£	\$96,349
	Compound	Fig.	Erohoodaa		Federal	LDNR				
Year		Year	& Design	Easements & Land Richts	Supervision 4		Supervision		First Cost	Total First
S	1.427	0	9	Sill Sill Sill Sill Sill Sill Sill Sill	UNITED IN STREET	Administra	& Inspection	Contingency	Construction	Cost
4	1.329	• •	3 \$	₹ 8	2	%	9	S	3	2
•	4 2 JA	2	3	3	2	\$	9	Ş		3
•		2	\$30'R\$	\$12,380	3	Ş	5	3 8	•	2
Y		1998	\$11,209	80	4022	3	2	3	\$	\$43,329
-	1.074	1886	\$15,659	S	7766	P1 7' Q	3	Ş	9	\$13,346
	<u> </u>	Total	\$57.818	£12 280	705,207	318,142	\$20,879	\$53,002	\$212,007	\$322,051
				096,214	63,285	\$19,356	\$20,879	\$53,002	\$212,007	\$378,725
1	Discount	Fiscal	Monttoring	OKW						
Year	Rates	Year	Costs	# 150 C						
7	0.931	2000	£40.997	COSIS	Sess					
?	0.867	2005	122,010	3	\$4 68					
ج ا	90 PO	1888	908,714	9	K					
1	0.000	2002	\$16.677	2	2404					
7	0.752	2003	\$15,531	9	5376					
က်	0.701	2004	\$14,464	\$180.372	8350					
φ	0.653	2002	\$13.471	9	900					
	0.608	2006	\$12.548	\$ 5	9320					
9	0.566	2007	\$11 884		52					
å	0.527	2008	K10 881		\$283					
9	0.491	2008	45 43 A	04000	2284					
÷	0.457	2040		5/50714	\$245					
. 42	0.426	2016	D04'80	2	\$228					
4 5	0.420	2011	\$8.780	<u>\$</u>	\$213					
<u>.</u>	0.397	2012	\$8,186	2	\$10a					
-	0.369	2013	\$7.624	3	245					
-15	0.344	2014	\$7,100	CAR 530	0014					
. 18	0.320	2015	SA 812	855,000	2/14					
-11	0.298	2016	£6.158	3 8	\$160					
-18	0.278	2017	EE 725	3 8	5149					
-19	0.259	2018	CE 344	3 8	\$138			ı		
-50	0.241	2019	16.03	3	\$129					
•		-	C/A'*	2	\$120					
	-	100	\$212,481	\$395,284	\$5,146					
•	Average Annual	Tes	\$20,645	\$38.406	6500					
			1		3	•				

Delta Wide Crevasses (PMR-10 - I)

									•	•
					Federal	LDNR				
	Inflation	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Year	Factor	Year	& Design	& Land Rights	Administration	Administration & Inspection	& Inspection	Contingency	Construction	Cost
3		0	3	3	2	3	3	0 \$	\$	0\$
•		0	2	2	2	\$	3	2	3	S
9	1.000	1997	\$25,000	\$10,000	3	S	3	\$	2	\$35,000
8	1.027	1996	\$96.05	3	\$822	\$1,081	3	%	2	\$11,888
-	1.055	1890	\$15,382	.	\$2,320	\$17,821	\$20,509	\$52,083	\$208,251	\$316,346
		TOTAL	\$50,367	\$10,000	\$3,142	\$18,902	\$20,509	\$52,063	\$208,251	\$363,234
	Inflation	Fleca	Monttoring	O&M	Other					
Year	Factor	Year	Coete	Costs	Costs					
7	1.083	2000	\$22,363	2	\$542	•				
-5	1.112	2001	\$22,955	2	\$558					
4	1142	2002	\$23.587	9	1753					
7	1.173	2003	\$24,224	2	\$587					
တု	1.205	2004	\$24,878	\$310,225	\$603					
φ	1.238	2002	\$25,549	3	\$819					
-1	1.271	2008	\$26,239	2	\$835					
9	1.305	2007	\$26,948	3	\$8 53					
æ	1.341	2008	\$27,675	2	\$670					
9-	1.377	2008	\$28,422	\$354,429	\$688					
÷	1.414	2010	\$29,190	\$	\$707					
-12	1.452	2011	•	2	\$726					
-13	1.491	2012	•	2	\$746					
-	1.532	2013	\$31,619	2	\$766					
-15	1.573	2014	\$32,472	\$404,932	\$786					
-16	1.615	2015	\$33,349	2	\$808					
-17	1.659	2016	\$34,249	2	\$828					
-18	1.705	2017	\$35,174	3	2882					
-19	1.750	2018	\$36,124	\$	\$875					
-20	1.797	2019	••	3	\$880	_				
		Total	-	C4 000 E47	641 447	1_				

Costs amortized over 20 year operation life

6,249

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

Fort Jackson /Boothville Diversion (PBA-44)

		•	
Project Construction Years:	13	Total Project Years	33
Interest Rate	7.38%	Amoritization Factor	0.097161602
Total First Costs	\$41,952,800	Total Fully Funded Costs	\$45,518,100
Annual Charges	Present	Average	ge al
Interest & Amortization Monitoring O & M Costs Other Costs	\$68,331,000 \$303,500 \$687,000 \$5,100	\$6,639,100 \$29,500 \$66,800	,639,100 \$29,500 \$66,800
Total	\$69,326,600	006,735,900	900
Average Annual Habitat Units		7	7,308
Cost Per Habitat Unit			\$922
Average Annual Acres of Emergent Marsh	Warsh	· · · · · ·	6 249

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Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

Fort Jackson /Boothville Diversion (PBA-44)

First Costs and Annual Charges

	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
	Year	& Design	& Land Rights	Administration	Administration & Inspection	& Inspection	Contingency	Construction	Cost
Compound	1997	\$150,000	0 \$	0\$	0\$	0\$	0\$	0\$	\$150,000
Compound	1998	\$102,692	\$4,784,211	\$5,000	\$1,643	0 \$	3	S	\$4,893,546
Compound	1999	\$1,232,308	\$6,378,947	\$60,000	\$19,717	9	S	\$	\$7,690,972
Compound	2000	3	\$6,378,947	\$60,000	\$19,717	0 \$	\$	\$	\$6,458,664
Compound	2001	3	\$2,657,895	\$60,000	\$19,717	\$39,175	\$110,103	\$440,412	\$3,327,302
Compound	2002	3	\$	\$60,000	\$19,717	\$117,526	\$330,309	\$1,321,237	\$1,848,789
Compound	2003	3	%	\$60,000	\$19,717	\$117,526	\$330,309	\$1,321,237	\$1,848,789
Compound	2004	%	\$	\$60,000	\$19,717	\$117,526	\$330,309	\$1,321,237	\$1,848,789
Compound	2005	\$	%	\$60,000	\$19,717	\$117,526	\$330,309	\$1,321,237	\$1,848,789
4 Compound	2006	\$	%	\$60,000	\$19,717	\$117,526	\$330,309	\$1,321,237	\$1,848,789
Compound	2007	\$	\$	\$60,000	\$19,717	\$117,526	\$330,309	\$1,321,237	\$1,848,789
Compound	2008	\$	\$	\$60,000	\$19,717	\$117,526	\$330,309	\$1,321,237	\$1,848,789
Compound	2009	%	0\$	\$45,000	\$30,788	\$88,144	\$247,732	\$990,928	\$1,402,592
Base Year									
	TOTAL	\$1,485,000	\$20,200,000	\$650,000	\$229,600	\$950,000	\$2,670,000	\$10,680,000	\$36,864,600
	Fiscal	Monitoring	0&M	Other					
Year	Year	Costs	Costs	Costs					
Discount	. 2010	\$29,492	\$66,750	\$200					
Discount	2011	\$29,492	\$66,750	\$200					
Discount	2012	\$29,492	\$66,750	\$200					
Discount	2013	\$29,492	\$66,750	\$500					
Discount	2014	\$29,492	\$66,750	\$500					
Discount	2015	\$29,492	\$66,750	\$200					
Discount	2016	\$29,492	\$66,750	\$200					
8 Discount	2017	\$29,492	\$66,750	\$200					
9 Discount	2018	\$29,492	\$66,750	\$200					
10 Discount	2019	\$29,492	\$66,750	\$200					
Discount	2020	\$29,492	\$66,750	\$200					
Discount	2021	\$29,492	\$66,750	\$200					
Discount	2022	\$29,492	\$66,750	\$200					
Discount	2023	\$29,492	\$66,750	\$500					
Discount	2024	\$29,492	\$66,750	\$200					

\$500 \$500 \$500 \$500	\$10,000
\$66,750 \$66,750 \$66,750 \$66,750 \$66,750	\$1,335,000
\$29,492 \$29,492 \$29,492 \$29,492 \$29,492	\$589,840
2025 2026 2027 2028 2028	lotal
16 Discount17 Discount18 Discount19 Discount20 Discount	

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Coastal W. dands Conservation and Restoration Plan Priority Project List VI

Fort Jackson /Boothville Diversion (PBA-44)	
Fort Jackson /Boothville Diversion (PBA-	7
Fort Jackson /Boothville Diversion (I	PBA.
Fort Jackson /Boothville Diversi	5
Fort Jackson /Boothville Di	Vers
Fort Jackson /Boothvil	٥
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Fort Jackson	/B00
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Fort	Jack
	For

Year Compound Fiscal Explicacing Exaction First Construction Construction <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>											
Compound Fiscal Epigliaearing Lopesign 6 Lacements Supervision & Lispercison Page-Prints on Administration Administration of Lispercison First Construction 2.53.4 1994 \$1,126.94 \$11,246.94 \$11,746 \$1,546 \$0						Federal	LDNR				
Rates Year & Lear. List Administration Administrat		Compound	Fiscal	Engineering	Easements	Supervision &	Supervision &	Supervision		First Cost	Total First
2 552 1997 \$718,287 \$6 \$10	Year	Rates	Year	& Design		Administration	Administration	& Inspection	Contingency	Construction	Cost
2.349 1998 \$11,744 \$13,659 \$10,744 \$13,659 \$10,744 \$10,950 \$20,65,562 \$11,356,3562 \$11,312,46 \$10,747 \$10,90 \$2,685,562 \$11,312,46 \$10,747 \$10	13	2.522	1997	\$378,297	S	0\$	0\$	0\$	0\$	0\$	\$378,297
2 187 1889 \$2,685,582 \$13,953,526 \$1311,246 \$40,147 \$9 \$9 \$9 \$9 \$10 \$9 \$9 \$10 \$10 \$9 \$10 <td>12</td> <td>2.349</td> <td>1998</td> <td>\$241,199</td> <td>\$11,236,949</td> <td>\$11,744</td> <td>\$3,859</td> <td>\$</td> <td>≎</td> <td>\$</td> <td>\$11,493,751</td>	12	2.349	1998	\$241,199	\$11,236,949	\$11,744	\$3,859	\$	≎	\$	\$11,493,751
2 037 2000 \$0 \$12,995,135 \$122,231 \$40,167 \$0 \$0 \$0 \$12,995,135 \$12,2231 \$40,167 \$0 \$90 \$13,896 \$13,406 \$14,236 \$15,602 \$15,602 \$15,602 \$15,602 \$15,602 \$15,602 \$15,602 \$15,602 \$15,602 \$15,602 \$15,602 \$17,412 \$16,602 \$15,602 \$15,602 \$15,602 \$15,602 \$17,412 <	=	2.187	1999	\$2,695,592	\$13,953,526	\$131,246	\$43,129	3	\$	%	\$16,823,493
1897 2001 \$0 \$10,42/38 \$113,836 \$137,408 \$174,205 \$1835,550 \$1835,550 \$114,627 \$2002 \$10,017 \$2446 \$193,400 \$42,33456 \$2334,456 \$133,400 \$42,33466 \$133,400 \$42,33466 \$133,400 \$42,33466 \$147,421 \$147,728 \$2004 \$1,552 \$2024,882 \$2347,451 \$1,142,18 \$1,286 \$2007 \$1,005 \$1,156,279	10	2.037	2000	\$	\$12,995,135	\$122,231	\$40,167	%	≎	\$	\$13,157,533
1	6	1.897	2001	3	\$5,042,738	\$113,836	\$37,408	\$74,326	\$208,895	\$835,580	\$6,312,783
1.646 2003 \$10 \$	• •	1.767	2002	3	9	\$106,017	\$34,839	\$207,663	\$583,642	\$2,334,566	\$3,266,727
1.533 2004 \$10 \$	7	1.646	2003	3	9	\$98,736	\$32,446	\$193,400	\$543,554	\$2,174,218	\$3,042,353
1427 2005 \$6 \$6 \$79,756 \$167,745 \$471,451 \$1,886,804 1,236 2006 \$6 \$6 \$79,756 \$165,223 \$409,070 \$1,756,279 1,238 2006 \$6 \$6 \$6 \$79,756 \$165,223 \$409,970 \$1,756,279 1,153 2008 \$6 \$6 \$6 \$6 \$79,756 \$126,009 \$146,493 \$146,493 \$1,552,306 \$1,523,306 1,074 \$2008 \$40,0100000 \$6 \$6 \$1,523,30	9	1.533	2004	3	%	\$91,954	\$30,217	\$180,116	\$506,221	\$2,024,882	\$2,833,390
1.329 2006 \$6 \$6 \$70 \$71,756,279 \$156,223 \$439,070 \$17,756,279 \$1,238 \$2008 \$40 \$40 \$41 \$24,440 \$146,433 \$408,912 \$16,35,550 \$1,143 \$2009 \$40 \$40 \$40 \$41 \$24,440 \$146,433 \$408,912 \$1,635,306 \$1,042,934 \$1,	2	1.427	2005	3	%	\$85,638	\$28,142	\$167,745	\$471,451	\$1,885,804	\$2,638,780
1.238 2007 \$0 \$14,278 \$24,409 \$146,493 \$408,912 \$1,635,650 \$163,650 \$163,650 \$163,650 \$163,650 \$163,650 \$163,650 \$163,650 \$163,650 \$163,650 \$163,650 \$163,650 \$163,650 \$163,650 \$163,650 \$163,650 \$163,650 \$163,600 \$163,600 \$163,000	4	1,329	2006	S	S	\$79,756	\$26,209	\$156,223	\$439,070	\$1,756,279	\$2,457,537
1.153 2008 \$0 \$69,176 \$22,732 \$135,500 \$380,826 \$1,523,306 1.074 2009 \$0 \$48,319 \$130,660 \$196,602 \$1,523,306 \$1,523,306 \$1,523,306 \$1,523,306 \$1,523,306 \$1,523,306 \$1,523,306 \$1,523,306 \$1,523,306 \$1,064,009 \$1,064,009 \$1,064,009 \$1,064,009 \$1,064,009 \$1,064,009 \$1,064,009 \$1,064,009 \$1,064,009 \$1,064,009 \$1,064,009 \$1,064,009 \$1,064,009 \$1,064,009 \$1,064,009 \$1,066,009 \$1,064,009	· m	1,238	2007	S	9	\$74,278	\$24,409	\$145,493	\$408,912	\$1,635,650	\$2,288,742
1 074 2009 \$0 \$48,319 \$13,058 \$94,645 \$266,002 \$1064,009 \$10,040 \$10,040 \$10,02,932 \$13,058 \$10,02,394 \$10,02,932 \$13,058 \$10,040	7	1.153	2008	3	3	\$69,176	\$22,732	\$135,500	\$380,826	\$1,523,306	\$2,131,541
Discount Fiscal Agis (Agis	-	1.074	2009	3	3	\$48,319	\$33,058	\$94,645	\$266,002	\$1,064,009	\$1,506,033
Discount Fiscal Monitoring O&M Other Rates Year Costs Costs Costs 0.931 2010 \$27,466 \$62,165 Cost 0.867 2011 \$25,580 \$57,896 Cost 0.808 2012 \$23,823 \$53,919 \$50,216 0.752 2013 \$22,187 \$50,216 \$50,216 0.701 2014 \$20,663 \$46,767 \$60,563 \$46,767 0.653 2015 \$19,244 \$43,554 \$6,767 \$60,563		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 Costs 0.931 2010 \$27,466 \$62,165 0.867 2011 \$25,580 \$57,896 0.808 2012 \$25,580 \$57,896 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 0.566 2017 \$16,691 \$37,777 0.491 2019 \$14,477 \$32,766 0.491 2020 \$11,694 \$26,467 0.397 2022 \$11,694 \$26,467 0.369 2023 \$10,891 \$24,649 0.320 \$2023 \$10,891 \$22,956 0.320 \$2024 \$10,143 \$22,956 0.320 \$9,446 \$21,380		Discount	Fiscal	Monitoring	O8M	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 \$36,419 0.397 2022 \$11,694 \$26,467 0.369 2023 \$10,891 \$24,649 0.369 2023 \$10,891 \$22,956 0.320 \$2025 \$9,446 \$21,380		Rates	Year	Costs	Costs	Costs					
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 0.527 2018 \$15,544 \$35,182 0.491 2019 \$14,477 \$32,766 0.457 2020 \$13,482 \$30,515 0.456 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		0.931	2010	\$27,466	\$62,165	\$466					
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 0.527 2018 \$15,544 \$32,162 0.491 2019 \$14,477 \$32,766 0.457 2020 \$13,482 \$30,515 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	-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 \$37,777 0.527 2018 \$15,544 \$37,777 0.491 2019 \$14,477 \$32,766 0.457 2020 \$13,482 \$30,515 0.456 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 \$20,446 \$21,380	<u>6</u> -	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 0.57 2018 \$15,544 \$37,777 0.491 2019 \$14,477 \$32,766 0.457 2020 \$13,482 \$30,515 0.456 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	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 0.426 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	ċ	0.701	2014	\$20,663	\$46,767	\$350					
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 0.426 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	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 \$32,182 0.457 2020 \$13,482 \$30,515 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	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 \$28,419 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	8	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 \$28,419 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	6-	0.527	2018	\$15,544	\$35,182	\$264					
0.457 2020 \$13,482 \$30,515 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	-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	-11	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 \$24,649 0.344 2024 \$10,143 \$22,956 0.320 2025 \$9,446 \$21,380	-13	0.397	2022	\$11,694	\$26,467	\$198					
0.320 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					
						•					

\$129 \$120 \$5,146	\$17,270 \$16,084 \$687,000	\$7,630 \$7,106 \$303,536 \$29,492	0.241 2029 Total Verage Annual
\$5,146	\$687,000	\$303,536)(a)
\$120	\$16,084	\$7,106	_
\$129	0/7'/10	001	0000
	617 220	\$7,630	2028
\$139	\$18,544	\$6,193	1707
\$149	419,911	161,00	2022
		CB 707	2026

Costs amortized over 20 year operation life

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Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

Fort Jackson /Boothville Diversion (PBA-44)

					Federal	LDNR				
	Inflation	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Year	Factor	Year	& Design	& Land Rights	Administration	Administration & Inspection	& Inspection	Contingency	Construction	Cost
13	1.000	1997	\$150,000	S.	9	%	\$	%	0\$	\$150,000
12	1.027	1998	\$105,465	\$4,913,384	\$5,135	\$1,687	\$	%	9	\$5,025,672
Ξ	1.055	1999	\$1,299,751	\$6,728,061	\$63,284	\$20,796	\$	%	9	\$8,111,891
0	1.083	2000	3	\$6,909,718	\$64,992	\$21,358	9	S	9	\$6,996,068
6	1.112	2001	\$	\$2,955,344	\$66,715	\$21,923	\$43,559	\$122,425	\$489,700	\$3,699,666
80	1.142	2002	\$	%	\$68,549	\$22,526	\$134,272	\$377,375	\$1,509,499	\$2,112,222
7	1.173	2003	\$	\$	\$70,400	\$23,135	\$137,897	\$387,564	\$1,550,256	\$2,169,252
9	1.205	2004	\$	\$	\$72,301	\$23,759	\$141,620	\$398,028	\$1,592,113	\$2,227,821
2	1.238	2005	9	%	\$74,253	\$24,401	\$145,444	\$408,775	\$1,635,100	\$2,287,973
4	1.271	2006	%	\$	\$76,258	\$25,060	\$149,371	\$419,812	\$1,679,247	\$2,349,748
က	1.305	2007	\$	\$	\$78,317	\$25,736	\$153,404	\$431,147	\$1,724,587	\$2,413,191
7	1.341	2008	9	\$	\$80,431	\$26,431	\$157,546	\$442,788	\$1,771,151	\$2,478,347
-	1.377	2009	\$0	9	\$61,952	\$42,386	\$121,350	\$341,057	\$1,364,229	\$1,930,974
		TOTAL	\$1,555,216	\$21,506,508	\$782,588	\$279,198	\$1,184,465	\$3,328,970	\$13,315,881	\$41,952,825
	Inflation	Fiscal	Monitoring	08M	Other					
Year	Factor	Year	Costs	Costs	Costs					
-	1.414	2010	\$41,698	\$94,377	\$707					
-5	1.452	2011	\$42,824	\$96,925	\$726					
-3	1.491	2012	\$43,981	\$99,542	\$746					
4	1.532	2013	\$45,168	\$102,230	\$766					
ς	1.573	2014	\$46,388	\$104,990	\$786					
9	1.615	2015	\$47,640	\$107,825	\$808					
-7	1.659	2016	\$48,926	\$110,736	\$829					
ဆု	1.704	2017	\$50,247	\$113,726	\$852					
6-	1.750	2018	\$51,604	\$116,797	\$875					
-10	1.797	2019	\$52,997	\$119,950	\$899					
-1	1.846	2020	\$54,428	\$123,189	\$923					
-12	1.895	2021	\$55,898	\$126,515	\$948					
-13	1.947	2022	\$57,407	\$129,931	\$973					
-14	1.999	2023	\$58,957	\$133,439	\$1,000					
-15	2.053	2024	\$60,549	\$137,042	\$1,027					

100 000	C2 450 065	\$1 086 AB1		Total	
\$1,173	\$156,569	\$69,176	2028	2.346	٠,7
741.14	20.	, , , , ,		0,00	ć
\$1.140	\$152 453	\$67.358	2028	2.284	-19
711'16		0000			,
61 113	C148 445	\$65 5A7	2027	2.224	.
\$1 ,083	\$144,542	\$63,863	9707	7.103	- :

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

22	0.0971616	\$4,094,900	Average Annual	\$334,500 \$23,600 \$5,400 \$500
Total Project Years	Amorilization Factor	Total Fully Funded Costs	Aver	S S
2	7.38%	\$3,281,100	Present	\$3,442,700 \$242,800 \$55,500 \$5,100
Project Construction Years:	Interest Rate	Total First Costs	Annual Charges	Interest & Amortization Monitoring O & M Costs Other Costs

452

\$364,000

\$3,746,100

\$805

233

Average Annual Acres of Emergent Marsh

Average Annual Habitat Units

Total

Cost Per Habitat Unit

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

First Costs and Annual Charges

	Contingency Construction Cost	0\$ 0\$	\$0 \$0		0 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$1,903,0	\$475.750 \$1.903.000 \$23.107.040																							
		0\$	0	2 0	05	\$238,000	\$238,000																							
LDNR Supervision & Supervision	nois a more	<u> </u>	3	<u>\$</u>	9	\$52,060	\$52,060																							
Federal LDNR Supervision & Supervision Administration Administration	0	9	2	0\$	S	\$190,000	\$190,000	,	Oiller Cost	COSIS	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$200	\$500	\$10,000
Easements & Land Richts	3		•	0.	\$76,000	\$	\$76,000	ORM	Costs	9	0 5	S	. S	. .	. S	9	S	0\$	\$113,000	0\$	\$ 0	0 \$		S	8 0	\$ 0	\$0	\$0	\$ 0	\$113,000
Engineering & Design	05	5	\$ 5	00000	\$38,000	\$225,000	\$263,000	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	\$471,860
Fiscal Year				1001	/RR	1998	TOTAL	Fiscal	Year	1999	2000	2001	2002	2003	2004	2002	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Total
Year	5 Compound	4 Compound	3 Compound			Base Year			T Year	1 Discount	2 Discount	3 Discount	4 Discount	5 Discount	6 Discount	7 Discount	8 Discount	9 Discount	10 Discount	_	_	_	_	_	16 Discount		_		20 Discount	Tc

Costs amortized over 20 year operation lite

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Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

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

Prese	Present Valued Costs	\$	Total Discounted Costs	ed Costs	\$3,746,113			Amortized Costs	S	\$363,978
					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
5	1.427	0	\$	%	S	O \$	0\$	0\$	0\$	0\$
4	1.329	0	9	9	\$	\$	\$ 0	0\$	S	\$0
e	1.238	0	\$	≎	\$	\$	\$	S	S	\$ 0
2	1.153	1997	\$43,812	\$87,623	%	%	\$ 0	%	\$	\$131,435
_	1.074	1998	\$241,594	0\$	\$204,013	\$55,899	\$255,553	\$510,837	\$2,043,346	\$3,311,241
		Total	\$285,405	\$87,623	\$204,013	\$55,899	\$255,553	\$510,837	\$2,043,346	\$3,442,676
	Discount	Fiscal	Monitoring	08M	Other					
Year		Year	Costs	Costs	Costs					
-	0.931	1999	\$21,973	%	\$466					
-5	0.867	2000	\$20,463	\$	\$434					
<u>6</u> -	0.808	2001	\$19,058	S	\$404					
4	0.752	2002	\$17,749	%	\$376					
.5	0.701	2003	\$16,530	\$	\$350					
9	0.653	2004	\$15,394	%	\$326					
7	0.608	2002	\$14,337	\$0	\$304					
8-	0.566	2006	\$13,352	\$ 0	\$283					
6-	0.527	2007	\$12,435	0\$	\$264					
-10	0.491	2008	\$11,581	\$55,469	\$245					
=	0.457	2009	\$10,786	S	\$229					
-12	0.426	2010	\$10,045	\$	\$213					
-13	0.397	2011	\$9,355	0\$	\$198					
-14	0.369	2012	\$8,712	%	\$185					
-15	0.344	2013	\$8,114	\$	\$172					
-16	0.320	2014	\$7,557	S	\$160					
-17	0.298	2015	\$7,038	\$	\$149					
-18	0.278	2016	\$6,554	0 \$	\$139					
-19	0.259	2017	\$6,104	0 \$	\$129					
-20	0.241	2018	\$5,685	0 \$	\$120					
		Total	\$242,822	\$55,469	\$5,146					
	Average Annual	ler	\$23,593	\$5,389	\$500					
						,				

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Marsh Island Hydrologic Restoration and Marsh Creation Increment 3 (TV-5/7 (I3))

								1/21/10/21		
Fully	Fully Funded Costs	2	Total Fully Funded Costs	nded Costs	\$4,094,898			Amortized Costs	2	\$397,867
	1-11-11	i			Federal	LDNR				
Year	Factor	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	upervision		First Cost	Total Firet
5 4	- actor	rear	& Design	& Land Rights	Administration	Administration Administration & Inspection	Inspection	Contingency	Construction	oral r iisi
o -		0 (9	\$	\$	0\$	95	95	Consulacioni	COSI
3 (0	9	0\$	\$	S 0	\$ 0	\$		0.0
- 7 (0	.	\$ 0	\$0	05	9	3	<u> </u>) }
7	1.000	1997	\$38,000	\$76,000	\$0	0\$	5		2	0\$
-	1.027	1998	\$231,075	\$0	\$195,130	\$53,466	\$244 426	4488 505	\$0	\$114,000
		TOTAL	\$269,075	\$76,000	\$195,130	\$53,466	\$244,426	\$488,595	\$1,954,381	\$3,281,073
	Inflation	Fiscal	Monitoring	O&M	Office					
Year	Factor	Year	Costs	Costs	Costs					
-	1.055	1999	\$24,884	0\$	\$527					
-5	1.083	2000	\$25,556	. S	\$542	•				
6	1.112	2001	\$26,233	. S	\$556					
4	1.142	2002	\$26,955	0\$	\$571					
÷	1.173	2003	\$27,683	0\$	\$587					
Ģ	1.205	2004	\$28,430	0\$	\$603					
	1.238	2005	\$29,198	0 \$	\$619					
æ	1.271	2006	\$29,986	9	\$635					
6	1.305	2007	\$30,796	9	\$653					
-10	1.341	2008	\$31,627	\$151,479	\$670					
Ę.	1.377	2009	\$32,481	\$0	\$688					
-12	1.414	2010	\$33,358	\$ 0	\$707					
. 13	1.452	2011	\$34,259	%	\$726					
-14	1.491	2012	\$35,184	S	\$746					
-15	1.532	2013	\$36,134		\$766					
-16	1.573	2014	\$37,109	\$ 0	\$786					
-1/	1.615	2015	\$38,111	O \$	\$808					
2	1.659	2016	\$39,140	\$ 0	\$829					
-19	1.704	2017	\$40,197	\$ 0	\$852					
-50	1.750	2018	\$41,282	\$0	\$875					
	ĭ	Total	\$648,601	\$151,479	\$13,746		•			

865

Average Annual Acres of Emergent Marsh

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

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Penchant Basin (PTE-26)

24	0 0971616	\$21,180,200	ı	1			
		osts.	Average Annual \$1,158,300	\$29,500 \$300,500 \$500	\$1,488,800	1,445	\$1,030
Total Project Years	Amoritization Factor	Total Fully Funded Costs					
4	%	0	Present Worth \$11,921,400	\$3,092,900 \$3,092,900 \$5,100	\$15,322,900		
	7.38%	\$11,379,800					
Project Construction Years:	Interest Rate	Total First Costs	Annual Charges interest & Amortization Monitoring	O & M Costs Other Costs	Total	Average Annual Habitat Units	Cost Per Habital Unit

D-36

Costs amortized over 20 year operation life

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

Penchant Basin (PTE-26)

First Costs and Annual Charges

	First Cost Total First		COS				\$2,531,786 \$3,769,887	\$4,557,214 \$6,031,051	\$7,089,000 \$10,659,250																							
		Contingency	5		0	0.4	\$632,946	\$1,139,304	\$1,772,250																							
	Supervision	& Inspection	0.5	\$	•	00, 11	\$71,429	\$128,571	\$200,000																							
LDNR	Supervision & Supervision	Administration Administration & Inspection	\$0	9.	£10 231	10,2,01	40,134	\$52,615	\$118,000																							•
Federal	Supervision &	Administration	0 \$	80	\$85 192	\$20 AB2	204'407 4	\$153,346	\$443,000	Other	Costs	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$200	\$10,000
	Easements	& Land Rights	0\$	\$150,000	0\$	5	•	2	\$150,000	O&M	Costs	\$244,000	\$305,000	\$244,000	\$305,000	\$401,000	\$305,000	\$244,000	\$305,000	\$244,000	\$462,000	\$244,000	\$305,000	\$244,000	\$305,000	\$401,000	\$305,000	\$244,000	\$305,000	\$244,000	\$462,000	\$6,118,000
	Engineering	& Design	\$	\$250,000	\$353,889	\$283,111		0	\$887,000	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
i	riscal	rear		1997	1998	1999	0000		TOTAL	Fiscal	Year	2001	2002	2003	2004	.2005	2006	2007	2008	5009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Total
	,e ₉ ,	1	o Compound		3 Compound	2 Compound	1 Compound	,	•		Year	1 Discount	2 Discount	3 Discount		5 Discount	6 Discount	7 Discount			10 Discount	11 Discount		13 Discount			16 Discount				20 Discount	Ţ
	,	1						į				D-:	37																		•	

Penchant Basin (PTE-26)

Present Valued Costs	Costs	Total Discounted Costs	ed Costs	\$15,322,972			Amortized Costs	<u>s</u>	\$1,488,804
				Federal	LDNR			· ·	: :
Compound		Engineering	Easements	Supervision &	Supervision & Supervision	Supervision	Continuency	First Cost	Cost
Rales	Year	& Design	& Land Rights		ACHIMINSH BRIGHT	o o	- 1	9	05
1.427	0	3	2			00	3		46.31 707
1 329	1997	\$332,317	\$199,390	<u>\$</u>	%	9	2	0.0	107,166
1 238		\$438,103	2 0	\$105,465	\$23,807	<u>\$</u>	S	%	9/5//95\$
1 152		\$326.410	80	\$235,732	\$53,213	\$82,353	\$729,749	\$2,918,995	\$4,346,450
1.074		20	S	\$164,655	\$56,496	\$138,054	\$1,223,327	\$4,893,309	\$6,475,841
	Total	\$1,096,830	\$199,390	\$505,853	\$133,515	\$220,406	\$1,953,076	\$7,812,303	\$11,921,374
Discount	Fiscal	Monitoring	08M	Other					
Rates	Year	Costs	Costs	Costs					
0 931		\$27,466	\$227,241	\$466					
0.867		\$25,580	\$264,541	\$434					
0.808		\$23,823	\$197,097	\$404					
0.752		\$22,187	\$229,450	\$376					
0.701	1 2005	\$20,663	\$280,950	\$320					
0.653		\$19,244	\$199,013	\$326					
0.608	8 2007	\$17,922	\$148,275	\$304					
0.566	6 2008	\$16,691	\$172,613	\$283					
0.527	7 2009	\$15,544	\$128,606	\$264					
0.491		\$14,477	\$226,783	\$245					
0.457	7 2011	\$13,482	\$111,546	\$229					
0.426	6 2012	\$12,556	\$125,0	\$213					
0.397	7 2013	\$11,694	\$96,749	\$198					
0.369	9 2014	\$10,891	\$112,630	\$185					
0.344	4 2015	\$10,143	\$137,910	\$172					
0.320	0 2016	\$9,446	\$97,690	\$160					
0.298	8 2017	\$8,797	\$72,784	\$149					
0.278	8 2018	\$8,193	\$84,731	\$139					
0.259	9 2019	\$7,630	\$63,129	\$129					
0.241	1 2020	\$7,106	\$111,321	\$120					
	Total	\$303,536	\$3,092,916	\$5,146					
Average Annual	Test de	\$29 492	\$300,513	\$500					
Jacobs			•						

Costs amortized over 20 year operation life

Costs amortized over 20 year operation life

3/17/97

Coastal Wellands Conservation and Restoration Plan Priority Project List VI

Penchant Basin (PTE-26)

Fully F	Fully Funded Costs		Total Fully Fun	Funded Costs	\$21,180,199			Amorlized Costs	<u>s</u>	\$2,057,902
					Federal	LONR				
Year	Inflation Factor	Fiscal	Engineering & Design	Easements			Supervision		First Cost	Total First
ړ			The same	a Laind Mights	_ 1	Administra	& Inspection	Contingency	Construction	Cost
•	•	>		2	3	9	<u>\$</u>	S	9	\$
4	1 000	1997	\$250,000	\$150,000	\$	<u>\$</u>	S	90	9	\$400,000
6	1.027	1998	\$363,444	%	\$87,493	\$19.750	. S	9	\$	4420,086
2	1.055	1999	\$298,605	9	\$215,652	\$48,680	\$75 338	\$667.587	876 079 62	000'07#
	1.083	2000	\$0	\$	\$166,106	\$56,993	\$139,269	\$1 234 101	\$4 936 405	\$6,510,203 \$6,532,875
	Ĕ	TOTAL	\$912,049	\$150,000	\$469,250	\$125,423	\$214,607	\$1,901,688	\$7,606,753	\$11,379,770
	Inflation	Fiscal	Monitoring	0 8 M	Other					
Year	Factor	Year	Costs	Costs	Costs					
7	1.112	2001	\$32,792	\$271,306	\$556					
? D-	1.142	2002	\$33,694	\$348,459	\$571					
39 ?	1.173	2003	\$34,604	\$286,294	\$587					
4	1.205	2004	\$35,538	\$367,530	\$603					
.	1.238	2005	\$36,498	\$496,258	\$619					
မှ	1.271	2006	\$37,483	\$387,645	\$635					
-7	1.305	2007	\$38,495	\$318,489	\$653					
8-	1.341	2008	\$39,535	\$408,860	\$670					
6-	1.377	2009	\$40,602	\$335,919	\$688					
-10	1.414	2010	\$41,698	\$653,217	\$707					
-	1.452	2011	\$42,824	\$354,304	\$726					
-12	1.491	2012	\$43,981	\$454,838	\$746					
-13	1.532	2013	\$45,168	\$373,695	\$766					
-14	1.573	2014	\$46,388	\$479,730	\$786					
-15	1.615	2015	\$47,640	\$647,757	\$808					
-16	1.659	2016	\$48,926	\$505,986	\$829					
-17	1.704	2017	\$50,247	\$415,718	\$852					
-18	1.750	2018	\$51,604	\$533,678	\$875					
-19	1,797	2019	\$52,997	\$438,470	\$899					
-20	1.846	2020	\$54,428	\$852,633	\$923					
	Total	ta l	\$855,145	\$8,930,785	\$14,498	•				

Penchant Basin (PTE-26I), Increment 1

Project Construction Years;	.	Total Denget Vence	Š
	•		4 7
nterest Kale	7.38%	Amorilization Factor	0 0971616
Total First Costs	\$11,377,600	Total Fully Funded Costs	\$14,103,100
	Present	Average	гаде
Annual Charges	Worth	Annual	nual
Interest & Amortization	\$11,919,200		\$1,158,100
Monitoring	\$303,500		\$29,500
O & M Costs	\$581,600	• •	26,500
Olher Costs	\$5,100		\$500
Total	\$12,809,400	\$1.2	\$1,244,600
Average Annual Habitat Units			1,204
Cost Per Habitat Unit		•	\$1,034
Average Annual Acres of Emergent Marsh	Marsh		629

Penchant Basin (PTE-26i), Increment 1

First Costs and Annual Charges

				Federal	LONR				
	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Year	Year	& Design	& Land Rights	Administration	Administration & Inspection	& Inspection	Contingency	Construction	Cost
5 Compound	p	3	0\$	0\$	0 \$	0\$	0\$	0\$	0\$
4 Compound	1997 b	\$250,000	\$150,000	\$	3	\$	\$	\$ 0	\$400,000
3 Compound	1998 b	\$353,889	%	\$85,192	\$19,231	\$	\$	\$	\$458,312
2 Compound	1999 b	\$283,111	\$	\$204,462	\$46,154	\$71,429	\$632,946	\$2,531,786	189,697,6\$
1 Compound		\$	\$	\$153,346	\$50,615	\$128,571	\$1,139,304	\$4,557,214	\$6,029,051
Base Year									
	TOTAL	\$887,000	\$150,000	\$443,000	\$116,000	\$200,000	\$1,772,250	\$7,089,000	\$10,657,250
	Fiscal	Monitoring	08M	Other					
Year	Year	Costs	Costs	Costs					
1 Discount	2001	\$29,492	\$	\$200					
2 Discount	2002	\$29,492	\$61,000	\$200					
3 Discount	2003	\$29,492	\$	\$200					
4 Discount	2004	\$29,492	\$61,000	\$200					
5 Discount	2005	\$29,492	\$157,000	\$200					
6 Discount	2006	\$29,492	\$61,000	\$200					
7 Discount	2007	\$29,492	9	\$200					
8 Discount	2008	\$29,492	\$61,000	\$200					
9 Discount	2009	\$29,492	\$	\$200					
10 Discount	2010	\$29,492	\$218,000	\$200					
11 Discount	2011	\$29,492	S	\$200					
12 Discount	2012	\$29,492	\$61,000	\$200					
13 Discount	2013	\$29,492	9	\$200					
14 Discount	2014	\$29,492	\$61,000	\$200					
15 Discount	2015	\$29,492	\$157,000	\$200					
16 Discount	2016	\$29,492	\$61,000	\$200					
17 Discount	2017	\$29,492	9	\$200					
18 Discount	2018	\$29,492	\$61,000	\$200					
19 Discount	2019	\$29,492	9	\$200					
20 Discount	2020	\$29,492	\$218,000	\$200					
	Total	\$589,840	\$1,238,000	\$10,000					

Costs amortized over 20 year operation life

3/17/97

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

Penchant Basin (PTE-26I), Increment 1

Fiscal				200 00	**C,5000,21*			All Kollited Costs	2	066,444,050
Out of Escal First Cast Engineering Easements Supervision & Supervis					Federal	LDNR				
National State Constitution Co	punode	Fiscal	Engineering	Easements	Supervision &		Supervision		First Cost	Total First
4727 0 50	Rates	Year	& Design	& Land Rights	Administration	Administration	& Inspection		Construction	Cost
329 1997 \$332,317 \$199,390 \$60 \$10	1.427	0	9.	0\$	%	\$	%	\$	0\$	3
238 1996 \$439,103 \$105,465 \$52,373 \$50,373 \$50,914,995 \$7,918,914,995	1 329	1997	\$332,317	\$199,390	%	%	\$	\$	0\$	\$531,707
1939 \$126,410 \$10 \$123,712 \$132,132 \$132,132 \$139,149 \$12,916,915 \$15,9149 \$12,916,915 \$10,916,910 \$10,9	1.238	1998	\$438,103	9	\$105,465	\$23,807	\$	\$	\$0	\$567,376
074 2000 \$0 \$106,655 \$54,348 \$138,054 \$1,223,327 \$4893,309 Int Fiscal Monitoring OSAM Other \$1,366,830 \$1,311,366 \$1,223,327 \$4893,309 931 Year Costs Costs Costs Costs Costs \$7,813,307 \$7,812,303 \$7,	1.153	1999	\$326,410	0\$	\$235,732	\$53,213	\$82,353	\$729,749	\$2,918,995	\$4,346,450
Total \$1,096,830 \$1096,83 \$1096,830 \$1096,830 \$1096,830 \$1096,830 \$1	1.074	2000	0\$	\$	\$164,655	\$54,348	\$138,054	\$1,223,327	\$4,893,309	\$6,473,693
Int Fiscal Monitoring O&M OII Year Costs Cost	1	otal	\$1,096,830	\$199,390	\$505,853	\$131,368	\$220,406	\$1,953,076	\$7,812,303	\$11,919,22
Year Costs	Discount	Fiscal	Monitoring	08M	Other					
2001 \$27,466 \$0 2002 \$25,580 \$62,908 2003 \$23,823 \$0 2004 \$22,187 \$45,890 2005 \$20,663 \$109,998 2006 \$19,244 \$39,803 2007 \$17,922 \$0 2008 \$16,691 \$34,523 2009 \$15,544 \$0 2010 \$14,477 \$107,010 2011 \$13,482 \$0 2012 \$12,556 \$25,971 2013 \$11,694 \$10,538 2014 \$10,143 \$53,995 2015 \$10,143 \$53,995 2016 \$9,446 \$19,538 2017 \$8,797 \$0 2018 \$8,797 \$0 2019 \$7,630 \$0 2020 \$7,106 \$52,528 2020 \$7,106 \$52,528 2020 \$7,106 \$52,528 2020 \$7,106 \$58,536 2020 \$7,106 \$52,528 2020 \$7	Rates	Year	Costs	Costs	Costs					
2002 \$25,580 \$52,908 2003 \$23,823 \$0 2004 \$22,187 \$45,890 2005 \$20,663 \$109,998 2006 \$19,244 \$39,803 2007 \$17,922 \$0 2008 \$16,691 \$34,523 2009 \$15,544 \$0 2010 \$14,477 \$107,010 2011 \$13,482 \$0 2012 \$12,556 \$25,971 2013 \$11,694 \$0 2014 \$10,491 \$25,526 2015 \$10,143 \$53,995 2016 \$9,446 \$19,538 2017 \$8,797 \$0 2018 \$8,797 \$0 2020 \$7,106 \$52,528 2020 \$7,106 \$52,528 \$2020 \$7,106 \$56,543 \$303,536 \$581,636	0.931	2001	\$27,466	\$	\$466					
2003 \$23,823 \$0 2004 \$22,187 \$45,890 2005 \$20,663 \$109,998 2006 \$19,244 \$39,803 2007 \$17,922 \$0 2008 \$16,691 \$34,523 2009 \$15,544 \$0 2010 \$14,477 \$107,010 2011 \$13,482 \$0 2012 \$12,556 \$25,971 2013 \$11,694 \$0 2014 \$10,891 \$22,526 2015 \$10,143 \$53,995 2016 \$9,446 \$19,538 2017 \$8,797 \$0 2018 \$8,797 \$0 2019 \$7,630 \$0 2020 \$7,106 \$52,528 2020 \$7,106 \$52,528 \$303,536 \$581,636	0.867	2002	\$25,580	\$52,908	\$434					
2004 \$22,187 \$45,890 2005 \$20,663 \$109,998 2006 \$19,244 \$39,803 2007 \$17,922 \$0 2008 \$16,691 \$34,523 2009 \$15,544 \$0 2010 \$14,477 \$107,010 2011 \$13,482 \$0 2012 \$12,556 \$25,971 2013 \$11,694 \$0 2014 \$10,891 \$22,526 2015 \$10,143 \$53,995 2016 \$9,446 \$19,538 2017 \$8,797 \$0 2018 \$8,193 \$16,946 2019 \$7,630 \$0 2020 \$7,106 \$52,528 2020 \$7,106 \$52,528 2020 \$7,106 \$52,528 2020 \$7,106 \$52,528 2020 \$7,106 \$52,528	0.808	2003	\$23,823	\$	\$404					
2005 \$20,663 \$109,998 2006 \$19,244 \$39,803 2007 \$17,922 \$0 2008 \$16,691 \$34,523 2009 \$15,544 \$0 2010 \$14,477 \$107,010 2011 \$13,482 \$0 2012 \$12,556 \$25,971 2013 \$11,694 \$0 2014 \$10,891 \$22,526 2015 \$10,143 \$53,995 2016 \$9,446 \$19,538 2017 \$8,797 \$0 2018 \$8,193 \$16,946 2019 \$7,630 \$0 \$2020 \$7,106 \$52,528 \$2020 \$7,106 \$52,528 \$303,536 \$581,636	0.752	2004	\$22,187	\$45,890	\$376					
2006 \$19,244 \$39,803 2007 \$17,922 \$0 2008 \$16,691 \$34,523 2009 \$15,544 \$0 2010 \$14,477 \$107,010 2011 \$13,482 \$0 2012 \$12,556 \$25,971 2013 \$11,694 \$0 2014 \$10,891 \$22,526 2015 \$10,143 \$53,995 2016 \$9,446 \$19,538 2017 \$8,797 \$0 2018 \$8,193 \$16,946 2019 \$7,630 \$0 \$2020 \$7,106 \$52,528 \$303,536 \$581,636	0.701	2005	\$20,663	\$109,998	\$350					
2007 \$17,922 \$0 2008 \$16,691 \$34,523 2009 \$15,544 \$0 2010 \$14,477 \$107,010 2011 \$13,482 \$0 2012 \$12,556 \$25,971 2013 \$11,694 \$0 2014 \$10,891 \$22,526 2015 \$10,143 \$53,995 2016 \$9,446 \$19,538 2017 \$8,797 \$0 2018 \$8,193 \$16,946 2019 \$7,630 \$0 2020 \$7,106 \$52,528 2020 \$7,106 \$52,528 \$303,536 \$581,636	0.653	2006	\$19,244	\$39,803	\$326					
2008 \$16,691 \$34,523 2009 \$15,544 \$0 2010 \$14,477 \$107,010 2011 \$13,482 \$0 2012 \$12,556 \$25,971 2013 \$11,694 \$0 2014 \$10,891 \$22,526 2015 \$10,143 \$53,995 2016 \$9,446 \$19,538 2017 \$8,797 \$0 2018 \$8,193 \$16,946 2019 \$7,630 \$0 2020 \$7,106 \$52,528 2020 \$7,106 \$52,528 \$303,536 \$581,636	0.608	2007	\$17,922	%	\$304					
2009 \$15,544 \$0 2010 \$14,477 \$107,010 2011 \$13,482 \$0 2012 \$12,556 \$25,971 2013 \$11,694 \$22,526 2014 \$10,143 \$53,995 2015 \$10,143 \$53,995 2016 \$9,446 \$19,538 2017 \$8,797 \$0 2018 \$8,193 \$16,946 2019 \$7,106 \$52,528 2020 \$7,106 \$52,528	0.566	2008	\$16,691	\$34,523	\$283					
2010 \$14,477 \$107,010 2011 \$13,482 \$0 2012 \$12,556 \$25,971 2013 \$11,694 \$20 2014 \$10,143 \$53,995 2015 \$10,143 \$53,995 2016 \$9,446 \$19,538 2017 \$8,797 \$0 2018 \$8,797 \$0 2019 \$7,630 \$0 2020 \$7,106 \$52,528 2020 \$7,106 \$52,528	0.527	2009	\$15,544	\$	\$264					
2011 \$13,482 \$0 2012 \$12,556 \$25,971 2013 \$11,694 \$0 2014 \$10,891 \$22,526 2015 \$10,143 \$53,995 2016 \$9,446 \$19,538 2017 \$8,797 \$0 2018 \$8,193 \$16,946 2019 \$7,630 \$0 2020 \$7,106 \$52,528 \$303,536 \$581,636	0.491	2010		\$107,010	\$245					
2012 \$12,556 \$25,971 2013 \$11,694 \$0 2014 \$10,891 \$22,526 2015 \$10,143 \$53,995 2016 \$9,446 \$19,538 2017 \$8,797 \$0 2018 \$8,193 \$16,946 2019 \$7,630 \$0 2020 \$7,106 \$52,528	0.457	2011	\$13,482	\$	\$229					
2013 \$11,694 \$0 2014 \$10,891 \$22,526 2015 \$10,143 \$53,995 2016 \$9,446 \$19,538 2017 \$8,797 \$0 2018 \$8,193 \$16,946 2019 \$7,630 \$0 2020 \$7,106 \$52,528 \$10,403 \$10,403	0.426	2012	\$12,556	\$25,971	\$213					
2014 \$10,891 \$22,526 2015 \$10,143 \$53,995 2016 \$9,446 \$19,538 2017 \$8,797 \$0 2018 \$8,193 \$16,946 2019 \$7,630 \$0 2020 \$7,106 \$52,528 303,536 \$581,636	0.397	2013	\$11,694	%	\$198					
2015 \$10,143 \$53,995 2016 \$9,446 \$19,538 2017 \$8,797 \$0 2018 \$8,193 \$16,946 2019 \$7,630 \$0 2020 \$7,106 \$52,528 31 \$303,536 \$581,636	0.369	2014	\$10,891	\$22,526	\$185					
2016 \$9,446 \$19,538 2017 \$8,797 \$0 2018 \$8,193 \$16,946 2019 \$7,630 \$0 2020 \$7,106 \$52,528	0.344	2015	\$10,143	\$53,995	\$172					
2017 \$8,797 \$0 2018 \$8,193 \$16,946 2019 \$7,630 \$0 2020 \$7,106 \$52,528	0.320	2016	\$9,446	\$19,538	\$160					
2019 \$7,630 \$16,946 2019 \$7,630 \$0 2020 \$7,106 \$52,528 303,536 \$581,636	0.298	2017	\$8,797	\$	\$149					
2020 \$7,630 \$0 2020 \$7,106 \$52,528 8303,536 \$581,636	0.278	2018	\$8,193	\$16,946	\$139					
2020 \$7,106 \$52,528 14 \$303,536 \$581,636	0.259	2019	\$7,630	\$	\$129					
\$303,536 \$581,636	0.241	2020	\$7,106	\$52,528	\$120					
# DO 400 # EEE E43	_	otal	\$303,536	\$581,636	\$5,146					
510.000	Average Annual	len Ien	\$29,492	\$56,513	\$500					

Penchant Basin (PTE-26), Increment 1

\$14,103,051 Amortized Costs	Federal LDNR		Contingency			000 000 000	OC/AI®	\$215,652 \$48,680 \$75,338 \$667,587 \$2,670,348	\$54.827 \$139,269 \$1,234,101		Olher	Costs	\$55E	\$571	\$587	503	\$619	\$635	\$653	\$670	2688	2023	\$726	\$746	\$766	2786	808	\$829	\$852	\$875	8899
			_ [<u>\$</u>	\$150,000	05				\$150,000	W\$0		9	\$69,692	S	\$73,506	\$194,296	\$77,529	9	\$81,772	9	\$308,228	0 \$	\$90,968	0\$	\$95,946	\$253,611	\$101,197	9	\$106,736	S
Total Fully Funded Costs		_		3	\$250,000	\$363,444	\$208 605	6530,003	2	\$912,049	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	.168	\$46,388	\$47,640	\$48,926	\$50,247	\$51,604	\$52.997
_	í	Fiscal Voor	- 1	>	1997	1998	1999		2000	4	Fiscal	Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Fully Funded Costs		initiation Factor	1 acuta		000	1 027	1 055	1 002	- 1	₹	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
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24	0.0971616	\$3,167.400
Total Project Years	Amoritization Factor	Total Fully Funded Costs
	i	i
4	7.38%	\$2,995,800
Project Construction Years:	Interest Rate	Total First Costs

Average rth Annual	\$317,600 \$0,700 \$4,900 \$500 \$500		754	\$429	970 1
Annual Charges Worth	Interest & Amortization \$3,268,800 Monitoring \$50,700 O & M Costs \$4,900 Other Costs \$5,100	Total \$3,329,500	Average Annual Habitat Units	Cost Per Habitat Unit	Average Annual Acres of Emergent Marsh

First Costs and Annual Charges

& Dasign & Land Rights Administration Administration Administration Confingency \$40 \$0
\$46.429 \$4,205 \$44,737 \$40 \$50,000 \$44,684 \$50,000 \$44,684 \$50,000 \$41,6819
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\$4,929

Costs amortized over 20 year operation life

3/14/97

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

Compound Fiscal Englane LONR Federal LONR Fiscal LONG Fiscal LONG Fiscal LONG Fiscal Construction State \$0 \$0 \$10,42 \$0 \$0 \$10,42 \$0 \$0 \$10,42 \$0 \$0 \$10,42 \$0 \$0 \$10,42 \$0 \$0 \$10,42 \$0 \$0 \$10,42									אוויסוווילפת כספוצ	2	\$323,508
Compound Fiscal Engineering Easements Supervision &						Federal	LDNR				
Total 6 Design 6 Land Rights Atlantisation Administration Administration Contingency Construction State of \$1.00 and \$		Compound	Fiscal	Engineering	Easements	Supervision &	Supervision &	Supervision		First Cost	Total First
1427 90 510	rear	Kales	- 1	& Design	& Land Rights	Administration	Administration	& Inspection		Construction	Cost
1329 1897 1864,714 \$66,453 \$18,545 \$5,589 \$50 \$50 \$50 \$10,520 \$1	ဂ	1.42/	•	3	≎	9	9	95	20	v s	9
1238 1986 \$117,281 \$10 \$21,833 \$20,821 \$50 \$50 \$50 \$10 \$	4	1.329	1997	\$64,714	\$66,463	\$8,545	\$5.589	9.	S	\$ \$	6148 213
1153 1999 \$59,409 \$50,409 \$50,509 \$41,312 \$1,895,409 \$51,316 \$40,399 \$41,312 \$1,895,409 \$51,316 \$10,399 \$41,312 \$1,895,409 \$1,004 \$	က	1.238	1998	\$117,281	9	\$31,833	\$20.821	95	3	3	4145,512
1074 2000 \$0 \$0 \$0 \$13.316 \$18.348 \$18.03.494 \$18.03	7	1.153	1999	\$36,409	90	\$29 647	\$19.391	448 030	6471313	040 200 13	056,8014
Total \$218,404 \$ \$66,463 \$ \$72,327 \$ \$59,118 \$ \$56,987 \$ \$559,100 \$ \$2,236,400	-	1.074	2000	0\$	S	\$2,301	\$13,316	58 948	\$87.788	\$1,685,248	\$2,490,045 \$463,505
Discount Fiscal Monitoring O&M Other Rates Year Costs So Costs Costs So Costs Costs So So Costs So </td <td></td> <td>—</td> <td>otal</td> <td>\$218,404</td> <td>\$66.463</td> <td>\$72,327</td> <td>\$59,118</td> <td>\$56,987</td> <td>\$559,100</td> <td>\$2,236,400</td> <td>\$3,268,798</td>		—	otal	\$218,404	\$66.463	\$72,327	\$59,118	\$56,987	\$559,100	\$2,236,400	\$3,268,798
Rates Year Costs	_	Discount	Fiscal	Monitoring	08M	Other					
0.931 2001 \$4,590 \$0 0.867 2002 \$4,275 \$0 0.808 2003 \$13,982 \$0 0.752 2004 \$13,708 \$0 0.701 2005 \$13,453 \$0 0.608 2007 \$12,995 \$0 0.608 2007 \$12,995 \$0 0.608 2007 \$12,995 \$0 0.608 2007 \$12,995 \$0 0.608 2007 \$12,995 \$0 0.608 2007 \$12,995 \$0 0.608 2007 \$12,995 \$0 0.608 2007 \$12,995 \$0 0.608 2007 \$12,995 \$0 0.608 2007 \$12,995 \$0 0.457 2010 \$12,699 \$1 0.456 2012 \$12,699 \$1 0.344 2013 \$1,954 \$1 0.349 2014 \$1,954 \$1 0.349 2015 \$1,954 \$1 0.349 2016 \$1,579 \$1 0.278 2018 \$1,369 \$1 0.278 2019 \$1,275 \$1 0.278 2019 \$1,275 \$1 0.241 2020 \$1,188 \$1 0.241 \$2020 \$1,188 \$1 0.241 \$2020 \$1,188 \$1 0.241 \$2020 \$1,188 \$1 0.241 \$2020 \$1,188 \$1 0.241 \$2020 \$1,188 \$1 0.241 \$2020 \$1,188 \$1 0.241 \$2020 \$1,188 \$1 0.241 \$2020 \$1,188 \$1 0.241 \$2020 \$1,188 \$1 0.241 \$2020 \$1,188 \$1 0.241 \$2020 \$1,188 \$1 0.241 \$2020 \$1,188 \$1 0.241 \$2020 \$1,188 \$1 0.241 \$2020 \$1,188 \$1 0.241 \$2020 \$1,188 \$1 0.241 \$2020 \$2019 \$1,275 \$2 0.241 \$2020 \$2019 \$1,275 \$2 0.241 \$2020 \$2019 \$2019 \$2 0.241 \$2020 \$2019 \$2 0.241 \$2020 \$2019 \$2 0.241 \$2020 \$2 0.241 \$2020 \$2 0.241 \$2020 \$2 0.241 \$	Year	Rates	Year	Costs	Costs	Costs					
0.867 2002 \$4,275 \$0 0.808 2003 \$3,982 \$0 0.752 2004 \$3,708 \$0 0.701 2005 \$3,453 \$0 0.608 2007 \$2,995 \$0 0.608 2007 \$2,995 \$0 0.506 2008 \$2,790 \$0 0.507 \$2,995 \$0 0.491 2010 \$2,790 \$0 0.457 2010 \$2,298 \$0 0.457 2011 \$2,298 \$0 0.456 2012 \$2,099 \$0 0.397 2014 \$1,954 \$0 0.344 2015 \$1,695 \$0 0.349 2014 \$1,695 \$0 0.298 2017 \$1,470 \$0 0.298 2017 \$1,470 \$0 0.259 2019 \$1,275 \$0 0.241 \$0 \$1,188 \$0 0.259 2019 \$1,275 \$0 0.241 \$4,909 \$4,777 \$0 \$4,909 \$4777 \$4	-	0.931	2001	\$4.590		\$466					
0.808 2003 \$3,982 \$0 0.752 2004 \$3,708 \$0 0.701 2005 \$3,453 \$0 0.658 2007 \$2,995 \$0 0.566 2008 \$2,790 \$0 0.566 2008 \$2,790 \$0 0.457 2010 \$2,420 \$4,909 0.457 2011 \$2,293 \$0 0.457 2011 \$2,293 \$0 0.457 2011 \$2,298 \$0 0.457 2011 \$2,598 \$0 0.457 2011 \$2,598 \$0 0.397 2011 \$2,699 \$0 0.397 2012 \$1,954 \$0 0.397 2013 \$1,954 \$0 0.369 2014 \$1,820 \$0 0.369 2017 \$1,695 \$0 0.278 2018 \$1,579 \$0 0.278 2019 \$1,275 \$0 0.259 2019 \$1,275 \$0 0.259 2019 \$1,275 \$0 0.241 2020 \$1,188 \$0 0.259 \$2019 \$1,275 \$0 0.241 \$2020 \$1,188 \$0	-5	0.867	2002	\$4,275	3	\$434					
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0.369 2014 \$1,820 \$0 0.344 2015 \$1,695 \$0 0.320 2016 \$1,579 \$0 0.298 2017 \$1,470 \$0 0.278 2018 \$1,369 \$0 0.259 2019 \$1,275 \$0 0.241 2020 \$1,188 \$0 Average Annual \$4,929 \$4,909	-13	0.397	2013	\$1,954	0\$	\$198					
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0.320 2016 \$1.579 \$0 0.298 2017 \$1,470 \$0 0.278 2018 \$1,369 \$0 0.259 2019 \$1,275 \$0 0.241 2020 \$1,188 \$0 Total \$50,730 \$4,909	-15	0.344	2015	\$1,695	9	\$172					
0.298 2017 \$1,470 \$0 0.278 2018 \$1,369 \$0 0.259 2019 \$1,275 \$0 0.241 2020 \$1,188 \$0 Total \$50,730 \$4,909 Average Annual \$4,929 \$477	-16	0.320	2016	\$1,579	9	\$160					
0.278 2018 \$1,369 \$0 0.259 2019 \$1,275 \$0 0.241 2020 \$1,188 \$0 Total \$50,730 \$4,909 Average Annual \$4,929 \$477	-17	0.298	2017	\$1,470	S	\$149					
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0.241 2020 \$1,188 \$0 Total \$50,730 \$4,909	-19	0.259	2019	\$1,275	9	\$129					
sal \$50,730 \$4,909 \$4,929 \$477	-20	0.241	2020	\$1,188	0\$	\$120					
\$4,929		Ţ	letc	\$50,730	\$4,909	\$5,146					
	٩	Average Annua	ন্ত	\$4,929	\$477	\$500					

								Amortized Costs	S.	201,147
					Federal	LDNR				
;	Inflation	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
בפו	racior	rear	& Design	& Land Rights	Administration	Administration & Inspection	\$ Inspection	Contingency	Construction	Cost
c C		•	3	3	9	\$	95	20	05	03
4	1.000	1997	\$48.684	\$50,000	\$6,429	\$4,205	9	95	3	£100 313
e	1.027	1998	\$97,295	20	\$26,409	\$17,273	9	3	\$ 5	\$100°017
2	1.055	1999	\$33,307	9	\$27,122	\$17,739	\$43.947	5431 164	X1 724 658	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
-	1.083	2000	\$ 0	9	\$2,321	\$13,433	\$9,027	\$88.561	\$354 245	\$467.587
	-	TOTAL	\$179,286	\$50,000	\$62,280	\$52,650	\$52,974	\$519,726	\$2,078,902	\$2,995,818
	Inflation	Fiscal	Monitoring	08M	Other					
Year	Factor	Year	Costs	Costs	Costs					
-	1.112	2001	\$5,481	3	\$556					
-7	1.142	2002	\$5,631	3	\$571					
ę	1.173	2003	\$5,783	3	\$587					
4	1.205	2004	\$5,940	9	\$603					
-5	1.238	2002	\$6,100	9	\$619					
9-	1.271	2006	\$6,265	9	\$635					
-1	1.305	2007	\$6,434	9	\$653					
8	1.341	2008	\$6,607	3	\$670					
6-	1.377	2009	\$6,786	3	\$688					
-10	1.414	2010	\$6,969	\$14,139	\$707					
-11	1.452	2011	\$7,157	9	\$726					
-12	1.491	2012	\$7,350	9	\$746					
-13	1.532	2013	\$7,549	0\$	\$766					
-14	1.573	2014	\$7,753	9	\$786					
-15	1.615	2015	\$7,962	9	\$808					
-16	1.659	2016	\$8,177	95	\$829					
-17	1.704	2017	\$8,398	3	\$852					
-18	1.750	2018	\$8,625	9	\$875					
-19	1,797	2019	\$8,857	. 3	668\$					
-50	1.846	2020	\$9,097	. S	\$923					
	1	1	0000000	644 430	644 400					

Qaks/Avery Canals Hydrologic Restoration (XTV-25)

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

Annual Charges	Present	Average
Interest & Amortization	\$2,385,200	\$232,700
Monitoring	\$242,800	\$23,600
O & M Costs	\$120,200	\$11,700
Other Coats	\$5,100	0055
Total	\$2,763,300	\$268,500
Average Annual Habitat Units		305
Cost Per Habitat Unit		888
Average Annual Acres of Emergent Marsh		102

Oaks/Avery Canale Hydrologic Restoration (XTV-25)

First Costs and Americal Changes

				Federal	LDNR				
2	Fecal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
- 1	No.	& Design	& Land Rights	Administration	Administration & Inspection	& Inspection	Contingency	Construction	Cost
	9	2	2	2	3	S	93	5	0.0
4 Compount	7	2	2	2	S	S	3		•
3 Compoun	1997	\$30,000	\$65,000	3	3	3			
2 Compound	_	\$110,000	S	SOR SAA	412 353	3 \$	3 8	3 3	ODO'CER
1 Compound		855 000	\$ \$	66.3 443	0.00.41		2	3	150.841
Base Yea			3	718'700	\$30°04	000'ca*	2350,000	\$1,400,000	\$1,959,059
	TOTAL	\$196,000	\$65,000	\$81,000	\$49,000	\$65,000	\$350,000	\$1,400,000	\$2,205,000
	Flace	Monitoring	OFM	Other					
Year	Y.	Costs	3	Costs					
1 Discount	2002	\$23,503	2	\$500					
2 Discount	2051	\$23,593	2	S500					
3 Discount	2002	\$23,593	3	2500					
4 Discount	2003	\$23,503	2	\$500					
5 Discount	2007	\$23,503	\$82,000	\$500					
8 Discount	2002	\$23,503	3	\$500					
7 Discount	2008	\$23,593	3	\$500					
8 Discount	2007	\$23,593	3	\$500					
9 Discount	2008	\$23,593	2	\$500					
10 Discount	2006	\$23,583	\$49,000	\$500					
11 Discount	2010	\$23,503	3	2500					
12 Discount	2011	\$23,593	3	2500					
13 Discount	2012	\$23,583	3	2500					
14 Discount	2013	\$23,503	. 3	\$500					
15 Discount	2014	\$23,583	\$92,000	\$500					
16 Discount	2015	\$23,503	3	2500					
Li Steward	9543	\$27,533	ន	2500					
18 Discount	2017	\$23,593	3						
19 Discount	2018	\$23,593	3	\$500					
20 Discount	2019	\$23,593	2	\$200					
	Total	\$471,860	\$233,000	\$10,000					

Costs amortized over twenty years

4/18/97

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

Oaks/Avery Canals Hydrologic Restoration (XTV-25)

Year					Federal	LDNR				
1001	Companie	Flecal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
•	-		Posicina Posicina	& Land Rights	Administration	Administra	4 Inspection	Continger	Construction	Cost
•		> (2 8	3	3		3	3	3.	3.
•	277	•	3	3	2	2	3	3	2	2
m	527	1997	\$37,139	\$80,468	3	2	3	2	3	\$117,607
~	1.153	1906	\$126,823	3	\$32,960	\$14.242	3	3	05	\$174 026
-	1.874		\$59,058	2	\$56,277	\$39,350	\$69,794	\$375,813	\$1.503.250	\$2,103,539
		Total	\$223,019	\$80,468	\$89,238	\$53,582	\$69,794	\$375,813	\$1,503,250	\$2,395,172
	Oscorni	Fleca	MONIMUM	D. S. C.						
Year	Rates	Year	400	2 S	3 3					
	1080	2000	\$21.973	98	SARR	1				
?	790.0	2001	\$20,483	a	7575					
4	8088	2002	\$19,058	3						
4	6.752	2003	\$17,749	3						
ጭ	0.701	2007	\$18,530	\$64,457	\$350					
φ	0.863	2006	\$15,394	2	\$328					
-1	9.606	2008	\$14,337	2	\$304					
æ	0.566	2007	\$13,352	2	\$283					
æ	0.527	2008	\$12,435	2	\$284					
9	0.491	2009	\$11,581	\$24,053	\$245					
-	0.457	2010	\$10,786	2	\$229					
-12	0.426	2011	\$10,045	2	\$213					
-13	0.397	2012	\$9,355	2	\$188					
*	0.389	2013	\$8,712	2	\$185					
-15	0.344	2014	\$8,114	\$31,640	\$172					
-18	0.320	2015	\$7,557	8	\$160					
-17	0.298	2016	\$7,038	3	\$149					
a)	114.0	2017	\$5,554	:	6:30	•	i i			
-19	0.259	2018	\$6,104	2	\$129					
-50	0.241	2019	\$5,685	2	\$120					
	_	Total	\$242,822	\$120,150	\$5,146	•				
	Average Annual	Ter 3	\$22,500	£11 674	¢ koo					

Oaks/Avery Canals Hydrologic Restoration (XTV-25)

					Federal	LDNR				
:	Inflation	Flecal	Engineering	Essements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Ye Br	Factor	Xes.	& Design	& Land Rights	Administration	Administration & Inspection	& Inspection	Contingency	Construction	Sost
က		•	2	3	2	3	2	3	3	2
₹		0	2	3	\$	2	2	3	0\$	\$
m	1.000	1967	\$30,000	\$65,000	2	2	9	2	9	\$95,000
7	1.027	1966	\$112,970	2	\$29,360	\$12,666	3	3	8	\$155,017
-	1.065	1000	\$58,010	3	\$55,280	\$38,653	\$68,557	\$369,155	\$1,476,621	\$2,066,278
	7.	TOTAL	\$200,980	\$65,000	\$84,640	\$51,339	\$68,557	\$369,155	\$1,476,621	\$2,316,293
	Inflation	Fiscal	Montrolling	DEM	Other					
Year	Factor	¥ e ē.	Coats	Costs	Coete					
-	1,063	2000	\$25,558	3	\$542					
?	1.112	2001	\$26,233		\$558					
	1.142	2002	\$26,955		\$571					
7	1.173	2003	\$27,683		\$587					
ķ	1.205	2004	\$28,430	\$110.8	\$603					
φ	1.236	2002	\$29,198		\$619					
-1	1.271	2006	\$29,996	2	\$635					
9	1,305	2007	\$30,796	2	\$653					
49	134	2008	\$31,627	2	\$670					
-10	1.277	2009	\$32,481	\$67,459	\$686					
÷	1.414	2010	\$33,358	2	\$707					
-12	1.452	2011	\$34,250	2	\$726					
-13	1.491	2012	\$35,184	2	\$746					
7-	1.532	2013		2	\$766					
-15	1.573	2014	ŕ	\$144,706	\$786					
-18	1.615	2015		3.	2808					
-17	1.659	2016		2	8828					
Ç	42.	2617	4 CF OF 5	8	\$825 \$852		,			
-19	1.750	2018		2	\$875					
-50				3	669\$					
	<u> </u>	Total	SASS 111	3001013	417 417	•				

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Average Annual Acres of Emergent Marsh

Average Annual Habitat Units

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Cost Per Habitat Unit

\$905

192

Cost whized over twenty years

4/18/97

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

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

OBKE/Av	Oaks/Avery Canals Hydrologic Residence increment (X		
- Projeci Constructon Years.		Teta! Project Years	23
Interest Rate	7.38%	Amortization Factor	0.0971616
Total First Costs	\$1,364,500	Total Fully Funded Costs	\$2,367,700
	Present	¥	Average
Annual Charges	Worth		Alteria
	\$1.420.800	18	\$138,000
	\$242.800	•	523,600
	\$120.200	•	\$11,700
Other Costs	\$5,100		\$500
Total	\$1,788,900	in the second	\$173,800

Cost amortized over twenty years

4/18/97

Coastal Wetlands Conservation and Restoration Plan Priority Project List Vi

Oaks/Avery Canala Hydrologic Restoration Increment 1 (XTV-25-I)

First Costs and Annual Charges

					Federal	LONR				
		Flerral	Engineering	Engineering Easements Supervision & Supervision &	pervision & S	Supervision &	upervision		First Cost	Total First
Veer			A Design	Land RightsAdministration dministration	Iministration	dministration	Inspection	Inspection Contingency Construction	Construction	Cost
v	Polito Compo		S	S	9	9	\$	9	3	3
•	Composing		9	S	90	3	9	3	3	\$
	Compoding	4004		CAS DOD	S	9	3	3	2	\$95,000
	Compound	400	674 333	9	\$22 941	\$6.706	3	3	2	\$100,980
	Compound		200 200	3	642 050	\$28.294	\$65,000	\$187.250	\$749,000	\$1,105,270
-	Compound		700'cre	3						
		TOTAL	\$137,000	\$85,000	\$65,000	\$33,000	\$65,000	\$187,250	\$749,000	\$749,000 \$1,301,250
		Fiscal	Monitoring	081	Other					
Year		Year	Costs	Coats	Costs					
-	Discount	2000	\$23,593	3	\$200					
. ^	Discount	2001	\$23.593	80	\$500					
6	Discount	2002	\$23,593	9	\$500					
4	Discount	2003	\$23,593	2	\$500					
· w	Discount	2004	\$23,593	\$92,000	\$500					
· 6	Discount	2006	\$23,593	3	\$200					
7	Discount	2008	\$23,593	2	\$200					
. 60		2007	\$23,593	3	\$200					
9		2008	\$23,583	2	\$200					
10	_	2008	\$23,593	249,000	\$200					
=======================================		2010	\$23,593	2	\$200					
12	Discount	2011	\$23,593	3	\$200					
13		2012	\$23,593	2	\$200					
14		2013	\$23,593	2	\$200					
15		2014	\$23,593	\$92,000	\$200					
16		2015	\$23,593	3	\$200					
11		2018	\$23,593	\$	\$200					
22	Discount	2011		200	\$500		•			
19		2018		2	\$200					
20		2019	\$23,593	\$	\$200	4				
•		Total	\$471,860	\$233,000	\$10,000	1				

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Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

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

Compound Fiscal Engineering Easements Supervision & Hoperculation LONRR First Coat Vear Raises Year & Depart and Coate	3				•					
Compound Flacal Engineering Easements Supervision & Supervision & Rates Year & Design Land RightsAdministration & Supervision & Supervision & Supervision & Supervision & Supervision 6 1,427 0 \$0 <td< th=""><th>3</th><th></th><th></th><th></th><th>recera</th><th>LONE</th><th></th><th></th><th></th><th></th></td<>	3				recera	LONE				
Raise Year & Design Land Right Administration 40 \$0 4 1,329 0 \$0	•	7	Engineering	Easements	Supervision & S	Apervision &	_		First Cost	Total First
6 1,427 0 \$0		!	& Design	Land Right	Administration	drainistration	1	Contingency (Construction	Sest
1.226	4		3	2	3	o \$		3	3	9
3 1.236 1907 \$37,199 \$80,486 \$0 \$50,480 \$0 \$50,480 \$0 \$50,480 \$0 \$50,480 \$0 \$50,480 \$10,97 \$10,90 \$243,139 \$80,486 \$10,732 \$10 \$201,060 \$201,	25.		3	3	3	3	3	2	3	3
2 1.153 1998 \$82,243 \$0 \$26,450 \$7732 \$0 <td>127</td> <td></td> <td>\$37,139</td> <td>\$80.468</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>\$117,607</td>	127		\$37,139	\$80.468	3	3	3	3	3	\$117,607
1,174 1999 \$39,207 \$0 \$45,161 \$20,233 \$69,794 \$201,050 Discount Fiscal Monitoring O&M Offiner \$35,966 \$69,794 \$201,060 Discount Fiscal Monitoring O&M Offiner \$20,406 \$69,794 \$201,060 Discount Fiscal Monitoring O&M Offiner \$20,606 \$69,794 \$201,060 1	, ,		\$87.243	3		\$7,732	3	2	<u>\$</u>	\$116,424
Total	7		\$38,297	. .		\$28,233	\$69.794	\$201,060	\$604,239	\$1,186,784
Discount Fiscal Monitoring O&M Other		2	\$157,679	\$80,468		\$35,966	\$68,794	\$201,060	\$804,239	\$1,420,814
Raises Year Costs Costs Costs 1 0.831 2000 \$21,973 \$0 \$434 2 0.867 2001 \$20,463 \$0 \$434 3 0.806 2002 \$19,058 \$0 \$404 4 0.752 2001 \$20,463 \$0 \$404 5 0.701 2002 \$18,059 \$0 \$404 6 0.701 2003 \$17,749 \$0 \$236 6 0.653 2006 \$16,530 \$64,467 \$336 7 0.606 \$16,530 \$64,467 \$336 8 0.653 2006 \$16,530 \$64,467 \$336 9 0.653 2006 \$14,337 \$0 \$336 9 0.663 2007 \$11,337 \$0 \$264 10 0.663 2006 \$11,581 \$24,053 \$283 11 0.606 \$11,581 \$24,053 <	Discou		Monitoring	OGM	Other					
1 0.931 2000 \$21,973 \$0 \$4466 2 0.867 2001 \$20,463 \$0 \$434 3 0.806 2002 \$19,056 \$0 \$4404 4 0.752 2002 \$19,056 \$0 \$106 6 0.701 2004 \$16,530 \$64,467 \$316 6 0.653 2006 \$14,337 \$0 \$326 7 0.606 2007 \$13,352 \$0 \$304 9 0.657 2006 \$14,337 \$0 \$304 9 0.657 2007 \$11,352 \$0 \$263 10 0.491 2008 \$11,581 \$24,053 \$226 11 0.457 2010 \$10,786 \$0 \$213 12 0.426 2011 \$10,045 \$0 \$196 14 0.369 2012 \$9,355 \$0 \$196 16 0.374 2014			Sess	Coets	Costs					
0.867 2001 \$20,463 \$0 \$434 0.806 2002 \$19,066 \$0 \$404 0.806 2002 \$19,066 \$0 \$404 0.803 \$17,748 \$0 \$236 0.604 \$16,530 \$64,467 \$356 0.605 \$16,330 \$64,467 \$356 0.606 \$16,330 \$64,467 \$326 0.606 \$16,330 \$64,467 \$306 0.606 \$16,330 \$64,467 \$306 0.606 \$16,330 \$60,467 \$306 0.607 \$11,337 \$0 \$204 0.608 \$11,437 \$0 \$264 0.491 \$10,786 \$0 \$226 0.457 \$00 \$10,786 \$0 \$196 0.369 \$2014 \$8,712 \$0 \$186 0.376 \$2016 \$7,636 \$0 \$149 0.276 \$017 \$6,564 \$0 \$120	-			3						
0.806 2002 \$19,058 \$0 \$404 0.701 2004 \$16,530 \$84,467 \$350 0.653 2006 \$15,394 \$0 \$326 0.663 2006 \$14,337 \$0 \$326 0.608 2006 \$14,337 \$0 \$326 0.608 2007 \$13,352 \$0 \$283 0.627 2006 \$12,435 \$0 \$284 0.491 2006 \$11,581 \$24,653 \$284 0.401 2006 \$11,581 \$24,653 \$284 0.426 2010 \$10,786 \$0 \$213 0.427 2011 \$10,045 \$0 \$186 0.369 2013 \$8,712 \$0 \$186 0.376 2016 \$1,49 \$180 \$180 0.280 2016 \$1,036 \$0 \$180 0.290 2016 \$1,036 \$0 \$130 0.291 \$6,566 <td< td=""><td>20 0.</td><td>_</td><td></td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	20 0.	_		3						
0.752 2003 \$17.749 \$0 \$376 0.701 2004 \$16,530 \$64,467 \$350 0.653 2006 \$15,394 \$0 \$326 0.608 2006 \$14,337 \$0 \$304 0.608 2006 \$14,337 \$0 \$304 0.608 2006 \$12,435 \$0 \$264 0.627 2007 \$13,352 \$0 \$264 0.627 2008 \$11,581 \$240 \$264 0.457 2010 \$10,786 \$0 \$224 0.457 2010 \$10,045 \$0 \$196 0.36 2011 \$1,046 \$0 \$185 0.37 2012 \$9,355 \$0 \$186 0.36 2013 \$6,146 \$0 \$180 0.36 2016 \$7,036 \$0 \$180 0.276 2017 \$6,566 \$0 \$126 0.250 \$242,822 \$120,160 <td>6.0</td> <td>_</td> <td>•</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	6.0	_	•	3						
0.701 2004 \$16,530 \$64,467 \$350 0.653 2006 \$15,394 \$0 \$326 0.608 2006 \$14,337 \$0 \$304 0.566 2007 \$13,352 \$0 \$204 0.567 2006 \$12,435 \$0 \$264 0.491 2006 \$11,581 \$24,653 \$245 0.457 2006 \$10,786 \$0 \$228 0.458 2014 \$10,045 \$0 \$196 0.368 2013 \$6,712 \$0 \$186 0.369 2014 \$8,114 \$31,640 \$186 0.276 2016 \$7,036 \$0 \$180 0.276 2017 \$6,564 \$0 \$120 0.276 2018 \$6,564 \$0 \$120 0.276 \$2018 \$6,566 \$0 \$120 0.276 \$2018 \$6,505 \$0 \$120 0.276 \$2018 \$6	7 0 7			80						
0.653 2006 \$15,394 \$0 \$326 0.608 2006 \$14,337 \$0 \$304 0.566 2007 \$13,552 \$0 \$263 0.57 2006 \$12,435 \$0 \$264 0.491 2008 \$11,581 \$24,053 \$246 0.457 2010 \$10,786 \$0 \$229 0.458 2011 \$10,045 \$0 \$213 0.368 2012 \$9,045 \$0 \$196 0.374 2014 \$8,114 \$31,640 \$185 0.344 2014 \$6,114 \$31,640 \$185 0.256 2016 \$7,036 \$0 \$180 0.276 2017 \$6,564 \$0 \$129 0.259 2018 \$6,104 \$0 \$126 0.276 \$16 \$5,665 \$0 \$129 0.271 \$2,042 \$0 \$129 0.272 \$2018 \$6,505 \$0 <td></td> <td></td> <td></td> <td>\$64,457</td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td>				\$64,457	•					
0.606 \$14,337 \$0 \$304 0.566 2007 \$13,352 \$0 \$263 0.527 2006 \$12,435 \$0 \$264 0.491 2008 \$11,581 \$24,053 \$246 0.497 2009 \$10,786 \$0 \$229 0.426 2014 \$10,045 \$0 \$213 0.369 2012 \$9,355 \$0 \$186 0.344 2014 \$8,114 \$31,640 \$116 0.340 2015 \$6,114 \$31,640 \$185 0.256 2016 \$7,036 \$0 \$149 0.276 2017 \$6,564 \$0 \$139 0.276 2016 \$6,564 \$0 \$129 0.276 2016 \$6,564 \$0 \$129 0.271 \$6,566 \$0 \$129 0.271 \$5,665 \$0 \$129 0.271 \$242,822 \$120,160 \$5,146			••	3	\$326					
0.656 2007 \$13,352 \$0 \$283 0.491 2006 \$12,435 \$0 \$264 0.491 2006 \$11,581 \$24,053 \$245 0.457 2010 \$10,786 \$0 \$229 0.456 2011 \$10,045 \$0 \$213 0.36 2012 \$9,355 \$0 \$198 0.36 2012 \$9,712 \$0 \$185 0.34 2014 \$8,712 \$0 \$185 0.34 2014 \$8,114 \$31,840 \$185 0.24 2015 \$7,657 \$0 \$180 0.27 2016 \$7,036 \$0 \$139 0.27 2017 \$6,564 \$0 \$139 0.25 2016 \$6,104 \$0 \$120 0.27 \$6,565 \$0 \$120 0.24 \$5,146 \$0 \$120	-7 0.6			3	\$304					
0.627 2006 \$12,435 \$0 \$284 0.457 2009 \$11,581 \$24,053 \$245 0.457 2010 \$10,786 \$0 \$229 0.426 2011 \$10,045 \$0 \$213 0.369 2012 \$9,355 \$0 \$198 0.369 2013 \$6,712 \$0 \$185 0.344 2014 \$8,114 \$31,840 \$172 0.320 2016 \$7,657 \$0 \$180 0.276 2017 \$6,564 \$0 \$139 0.276 2018 \$6,104 \$0 \$139 0.276 2016 \$6,564 \$0 \$139 0.276 2016 \$6,104 \$0 \$120 0.276 2016 \$6,104 \$0 \$120 0.276 2016 \$6,505 \$0 \$120 0.271 \$6,505 \$0 \$120 0.271 \$242,822 \$120,160 \$5,146	9.0		••	3	\$283					
0.491 2008 \$11,581 \$24,053 \$245 0.457 2010 \$10,786 \$0 \$229 0.426 2011 \$10,045 \$0 \$213 0.367 2012 \$9,365 \$0 \$196 0.369 2013 \$8,712 \$0 \$185 0.344 2014 \$8,114 \$31,640 \$172 0.320 2016 \$7,036 \$0 \$149 0.276 2017 \$6,554 \$0 \$139 0.276 2018 \$6,104 \$0 \$139 0.276 2016 \$6,104 \$0 \$120 0.276 2016 \$6,104 \$0 \$120 0.276 2016 \$6,104 \$0 \$120 0.271 \$6,565 \$0 \$120 0.271 \$242,822 \$120,160 \$5,146		_								
0.457 2010 \$10,786 \$0 \$229 0.428 2011 \$10,045 \$0 \$213 0.367 2012 \$9,365 \$0 \$196 0.369 2013 \$8,712 \$0 \$185 0.344 2014 \$8,114 \$31,840 \$172 0.320 2016 \$7,657 \$0 \$180 0.276 2016 \$7,036 \$0 \$149 0.276 2017 \$6,554 \$0 \$139 0.276 2018 \$6,104 \$0 \$120 0.271 \$5,665 \$0 \$120 0.241 \$5,665 \$0 \$120 0.241 \$5,665 \$0 \$120 0.241 \$242,822 \$120,160 \$5,146		_		\$24,053	_					
0.426 2011 \$10,045 \$0 \$213 0.367 2012 \$9,355 \$0 \$196 0.369 2013 \$8,712 \$0 \$185 0.344 2014 \$8,114 \$31,640 \$172 0.320 2016 \$7,657 \$0 \$160 0.276 2016 \$7,036 \$0 \$139 0.276 2017 \$6,554 \$0 \$129 0.259 2016 \$6,104 \$0 \$120 0.241 2016 \$6,104 \$0 \$120 0.259 2016 \$6,104 \$0 \$120 0.241 \$5,665 \$0 \$120 0.241 \$242,822 \$120,160 \$5,146		_	••	*	\$229					
0.369 2012 \$9,355 \$0 \$198 0.369 2013 \$8,712 \$0 \$185 0.344 2014 \$8,114 \$31,640 \$172 0.320 2016 \$7,657 \$0 \$160 0.296 2016 \$7,036 \$0 \$149 0.276 2017 \$6,554 \$0 \$139 0.259 2016 \$6,104 \$0 \$128 0.250 2016 \$6,605 \$0 \$120 0.241 2018 \$6,205 \$0 \$120 0.251 2016 \$5,605 \$0 \$120 0.241 \$242,822 \$120,160 \$5,146				*	\$213					
0.369 2013 \$6,712 \$0 \$185 0.344 2014 \$8,114 \$31,640 \$172 0.344 2014 \$8,114 \$31,640 \$172 0.320 2016 \$7,657 \$0 \$160 0.276 2017 \$6,554 \$0 \$139 0.259 2016 \$6,104 \$0 \$129 0.259 2016 \$6,104 \$0 \$120 0.241 2018 \$5,605 \$0 \$120 0.241 \$242,822 \$120,150 \$5,146				*	\$198					
0.344 2014 \$8,114 \$31,840 \$172 0.320 2015 \$7,657 \$0 \$180 0.296 2016 \$7,036 \$0 \$149 0.278 2017 \$6,554 \$0 \$139 0.259 2018 \$6,104 \$0 \$129 0.241 2012 \$5,665 \$0 \$120 Total \$242,822 \$120,150 \$5,146										
0.320 2015 \$7,657 \$0 \$160 0.296 2016 \$7,036 \$0 \$149 0.276 2017 \$6,554 \$0 \$139 0.259 2018 \$6,104 \$0 \$129 0.241 2012 \$5,665 \$0 \$120 Total \$242,822 \$120,150 \$5,146					_					
0.296 2016 \$7,036 \$0 \$149 0.278 2017 \$6,554 \$0 \$139 0.259 2016 \$6,104 \$0 \$129 0.241 2018 \$5,605 \$0 \$120 Total \$242,622 \$120,150 \$5,146				Ä	\$16 0					
0.276 2017 \$6,554 \$0 \$139 0.259 2016 \$6,104 \$0 \$129 0.241 2018 \$5,605 \$0 \$120 Total \$242,622 \$120,150 \$5,146										
0.259 2018 \$6,104 \$0 \$129 0.241 2018 \$5,685 \$0 \$120 Total \$242,822 \$120,150 \$5,146										
U-241 2018 \$5,685 \$0 \$120 Total \$242,822 \$120,150 \$5,148			,							
Total \$242,622 \$120,150		•			:		:	! :		
			\$242,822							
Average Annual \$23.593 \$11,674 \$500	Avec	ace Annual	\$23.593							

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

Tuly Funded Costs	_	,	Total Taylor	السطائة المجالة	Tubs Flag Funded Coxis \$2,257,723	5	*	. Amedized Costs	Q ts:	\$230,052
					Federal	LDNR				
	inflation	Fiscal	Engineering	Easements	Easements Supervision & Supervision & upervision	Supervision &	upervision		First Cost	Total First
Year	Factor		& Design	Land Right	Land RightsAdministration dministration	dministration	Inspection	InspectionContingency Construction	Construction	Cost
9		0	2	9	3	3	9	0 \$	3	%
4		•	3	9	2	3	%	3	3	3
• •	1 000	1997	230,000	\$65,000	2	<u>3</u>	\$	3	3	\$95,000
~	1.027	1988	\$73,259	3	\$23,560	\$6,667	2	%	3	\$103,708
-	1.055	1000	\$37,619	\$		\$27,733	\$68,557	\$197,498	\$789,992	\$1,165,760
		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					
7	1.083	2000	\$25,558	2	\$542					
7	1.112	2001	\$26,233	2	\$226					
4	1.1.2	2002		2	\$571					
Ţ	1.173	2003	527,633	\$0	\$507					
\$	•	2004	\$28,430	\$110,862	\$603					
φ	1.238	2005	\$29,198	3						
-1	1.271	2008	\$29,986	\$						
47	•	2007	\$30,796	2						
ф		2008	\$31,627	2						
-10		2009	\$32,481	\$67,459						
-11	_	2010	\$33,358	3	202\$					
-12		2011		2						
-13		2012	\$35,184	2	\$746					
41-	•	2013	\$36,134	2	\$786					
-15	5 1.673	2014	\$37,109	\$144,706	3 \$786					
-16	3 1.615	2015	\$28,111	*	\$908					
-17	1.659	2016	\$39,140	3						
-18		2017	\$40,197	\$	2882					
6;-	9 1.750	2018		3	\$875					
		ZiVi3	165,296		9000			· ·		
		Total	\$666,113	\$323,026	\$ \$14,117	į				

Myrtle Grove Siphon Enlergement (PBA-48)

23	0.0971616	439,580,300
Total Project Years	Amoritization Factor	Total Fully Funded Costs
· •	7.38%	437,999,500
Project Construction Years:	Interest Rate	Total First Costs

Annual Charges	Present Worth	Average
Interest & Amortization Movitoring O & M Costs Other Costs	\$40,087,800 \$303,500 \$267,600 \$5,100	\$3,895,000 \$29,500 \$26,000 \$600
Total	440,664,000	43,951,000
Average Annual Habitat Units		1,932
Cost Per Habitat Unit		\$2,045
Average Annual Acres of Emergent Marsh		1,110

Myrtle Grove Siphon Enlargement (PBA-48)

First Costs and Annual Charges

					Federal	LDNR			i	
		Fiscal	Engineering	Easements	Supervision &	Supervision &	Supervision		First Cost	lotal First
Year		Year	& Design	& Land Rights	Administration	Administration	& Inspection	Contingency	Construction	Cost
1	Pos room of		9	0.	0\$	0	Q	Q	Q	Q
	Compound		9	9	0	Q	•	•	Q	0
	Compound	1001	A297 186	81 544 833	\$22.536	\$18,726	•	•	0	\$1,883,281
	Compound	000	4995 930	47 724 167	4270 426	\$224.712	•	Q	Q	49,205,235
7	Compound	000	000,000		4400,004	4165 908	425.4 92E	A4 915 578	\$19,682,313	\$25.278.919
 -	Compound Base Year	666 F	2	•	180,281	909'601 +	000,4004			
		TOTAL	\$1,283,116	\$9,269,000	4473,246	\$409,246	\$354,935	44,915,578	419,662,313	636,367.435
		Fice	Monitoring	O&M	Orther					
Year		Year	Costs	Costs	Costs					
-	Discount	2000	\$29,492	\$26,000	\$ 500					
. ~	Discount	2001	\$29,492	\$26,000	\$500					
, ca	Discount	2002	\$29,492	\$26,000	\$500					
₹	Discount	2003	\$29,492	\$26,000	\$ 200					
<u>س</u>	Discount	2004	\$29,492	\$26,000	\$500					
ω.	Discount	2005	129,492	\$26,000	\$ 200					
_	Discount	2006	\$29,492	\$26,000	\$ 200					
∞	Discount	2007	\$29,492	\$ 26,000	\$200					
o	Discount	2008	\$29,492	\$26,000	\$500					
10	Discount	2009	\$29,492	\$26,000	\$200					
=	Discount	2010	\$29,492	\$26,000	\$ 200					
12	Discount	2011	\$29,492	\$26,000	\$200					
13	Discount	2012	\$29,492	\$26,000	\$ 200					
7	Discount	2013	\$29,492	\$26,000	\$200					
5	Discount	2014	\$29,492	\$26,000	\$200					
16	Discount	2015	\$29,492	\$26,000	\$500					
17	Discount	2016	\$29,492	\$26,000	\$ 200					
18	Discount	2017	\$29,492	\$26,000	\$500					
61	Discount	2018	\$29,492	\$26,000	\$500					
70	Discount	2019	\$29,492	\$26,000	\$500	ı				
		Total	\$589,840	\$520,000	\$10,000					

Myrde Grove Siphon Enlargement (PBA-48)

					Federal	LDNR				
_	Compound	Fiscal	Engineering	Easements	Supervision &	Supervision &	Supervision		First Cost	Total First
Year	Rates	Yes	L Design	& Land Rights	Administration	Administration	& Inspection	Contingency	Construction	Cost
2	1.427	0	2	2	0\$	0	•	0	0	0
•	1 329	0	0	0	•	2	•	•	9	0
~ ~	1 238	1897	6367,907	\$1.912.455	\$27,898	\$23,182	2	Q	0	42,331,442
, ,	1 153	8661	41 138 717	88 905.493	4311.785	\$259.079	2	Q	•	\$10,613,075
٠,	1024	969	9	9	\$193.580	\$178.036	4381,111	45,278,102	\$21,112,409	\$27,143,239
-	1	Total	41,504,624	410,817,948	\$ 533,263	\$460,298	4381,111	\$5,278,102	\$21,112,409	440,087,756
٥	Discount	Fiscal	Monitoring	OSM	Other					
Year R	Rates	Year	Costs	Costs	Costs					
	0.931	2000	127,466	624,214	\$466					
7	0.867	2001	\$25,580	422,551	4434					
ı ç	0.808	2002	\$23,823	421,002	101					
7	0.752	2003	422,187	\$19,560	\$376					
ιĢ	0.701	2004	\$20,663	\$18,216	\$320					
φ	0.653	2005	119,244	\$16,965	\$326					
	0.608	2006	\$17,922	\$15,800	#304					
æ	0.566	2007	\$16,691	114,715	\$283					
Ģ	0.627	2008	115,544	\$13,704	\$264					
10	0.491	2009	414,477	\$12,763	1245					
7	0.457	2010	\$13,482	\$11,886	+229					
-12	0.426	2011	\$12,556	\$11,070	\$213					
-13	0.397	2012	\$11,694	\$10,309	\$198					
-14	0.369	2013	#10,891	49,601	\$185					
-15	0.344	2014	\$10,143	\$8,942	4172					
-16	0.320	2015	\$9,446	\$8,328	+160					
-17	0.298	2016	48,797	\$7,756	1149					
-18	0.278	2017	\$8,193	\$7,223	+139					
-19	0.259	2018	47,630	46,727	•					
-20	0.241	2019	\$7,106	\$6,265	\$120					
	-	Total	\$303,536	4267,595	45,146	•				
•	Average Annual		\$29.492	628,000	1500	00 000				

Myrde Grove Siphon Enlargement (PBA-48)

Federal Engineering Easements Supervision & Vear & Design & Land Rights Administration & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 &	Fully Funded Coets		Total Fully Funded Co.	s)	139,580,518		•	Amortized Costs		13.845,687
Factor Fiscal Engineering Easements Supervision & 60 60 60 60 60 60 60 60					Federal	LDNR				
Factor Vear & Design & Land Rights Administration 0	Inflation	Fiscal	Engineering	Easements	Supervision &	Supervision &	Supervision		First Cost	Total First
1,000 1997 4297,186 41,644,833 422,536 1,027 1998 41,012,550 47,932,719 422,536 1,027 1998 41,012,550 47,932,719 422,536 1,027 1998 41,012,550 47,932,719 422,536 1,027 1998 41,012,550 47,932,719 422,536 1,027 1,083 2000 431,946 49,477,553 4490,414 1,142 2000 431,946 428,163 4567 1,142 2000 432,792 428,109 4568 1,173 2003 434,604 430,507 4568 1,271 2006 436,538 431,330 4663 1,271 2008 439,536 434,854 4670 441,698 436,761 4707 1,444 2010 441,698 436,761 4707 1,491 2011 442,824 437,764 4708 486,518 1,573 2014 448,381 438,733 486,198 1,504 441,999 4808 1,504 2015 448,926 443,333 446,288 440,896 441,999 4808 1,704 2017 441,640 441,999 4808 1,704 2017 448,926 444,298 446,288 1,704 2017 448,926 444,298 446,288 1,704 2017 448,926 446,288 440,896 446,288 1,704 2017 448,926 446,288		Year	& Design	& Land Rights	Administration	Administration	& Inspection	Contingency	Construction	Cost
1.000 1997 4297,186 41,544,833 422,536 1.027 1998 41,012,550 47,932,719 4277,728 1.025 1999 40 41,909,736 49,477,553 4490,414		0	9	0	0	0#	0	Q	•	9
1.000 1997 \$297,186 \$1,544,833 \$22,536 1.027 1998 \$1,012,550 \$7,932,719 \$427,728 \$1.027 1998 \$1,012,550 \$7,932,719 \$427,728 \$1.055 1999 \$41,309,736 \$9,477,553 \$490,414 \$1.083 \$2000 \$43,946 \$28,163 \$4542 \$1.083 \$2001 \$432,792 \$28,910 \$4542 \$1.112 \$2001 \$432,792 \$28,910 \$4542 \$1.112 \$2001 \$432,792 \$428,910 \$4565 \$1.173 \$2004 \$436,498 \$429,705 \$4619 \$1.205 \$2004 \$436,498 \$429,705 \$4619 \$1.205 \$2004 \$436,498 \$432,705 \$4619 \$1.271 \$2006 \$436,498 \$432,705 \$4619 \$1.271 \$2006 \$436,498 \$433,937 \$4688 \$1.377 \$2009 \$440,602 \$436,795 \$4688 \$1.377 \$2009 \$440,602 \$436,795 \$4808 \$1.615 \$2012 \$445,168 \$440,895 \$4808 \$1.615 \$2016 \$445,640 \$441,999 \$4808 \$1.704 \$2017 \$448,388 \$440,895 \$4808 \$1.704 \$2017 \$448,388 \$444,298 \$4852 \$1.704 \$2017 \$448,926 \$444,298 \$4852 \$1.704 \$2017 \$448,926 \$446,297 \$446,722 \$4899 \$1.797 \$2019 \$452,997 \$446,722 \$4899 \$1.797 \$2019 \$452,997 \$446,722 \$4899 \$1.797 \$2019 \$452,997 \$446,722 \$4899 \$1.797 \$2019 \$452,997 \$446,722 \$4899 \$1.797 \$1.79	. 4	•	•	•	0	•	•	•	Q	0
1.027 1998 61,012,550 67,932,719 6277,728 1.055 1999 61,012,550 67,932,719 6190,151 6190			\$297,186	11,544,833	\$22.536	\$18,726	Q	•	•	\$1,883,281
1.055 1999 40 4190,151	_		41 012 550	67,932,719	\$277.728	\$230,779	Q	•	•	\$9,453,776
TOTAL \$1,309,736 \$9,477,563 \$4890,414	_		•	0	1190,151	\$174,883	\$374,360	\$5,184,603	420,738,412	\$26,662,408
Inflation Fiscpl Monitoring O&M O Factor Y Costs Costs Costs 1.083 2000 431,946 428,163 1.112 2001 432,792 428,910 1.142 2002 433,694 429,705 1.173 2003 434,604 430,607 1.205 2004 435,638 431,330 1.206 1.205 436,498 432,176 1.271 2006 436,498 433,937 1.341 2006 436,498 433,937 1.341 2008 439,536 434,864 1.377 2009 440,602 436,764 1.452 2011 442,824 437,73 1.452 2013 446,388 440,895 1.532 2014 446,388 440,895 1.573 2014 446,388 440,895 1.704 2017 448,926 441,999 1.750 2018 <td< td=""><td></td><td>TOTAL</td><td>\$1,309,736</td><td>#9,477,553</td><td>\$490,414</td><td>\$424,388</td><td>\$374,360</td><td>\$5,184,603</td><td>\$20,738,412</td><td>\$37,999,466</td></td<>		TOTAL	\$1,309,736	#9,477,553	\$490,414	\$424,388	\$374,360	\$5,184,603	\$20,738,412	\$37,999,466
Factor Y (Costs Costs Costs Costs C Cool Color C Costs C Costs C Costs C Cool C Cool C Costs C Cool C Costs C Cool C Costs C Cool C Costs C Cool C Cool C Costs C Cool C	Inflation	Fiscpt	Monitoring	O&M	Other					
1.083 2000 #31,946 #28,163 1.112 2001 #32,792 #28,910 1.142 2002 #33,694 #29,705 1.173 2003 #34,604 #30,507 1.205 2004 #36,498 #32,176 1.238 2005 #36,498 #32,176 1.271 2006 #37,483 #32,176 1.305 2007 #38,495 #33,937 1.341 2008 #39,535 #34,854 1.342 2010 #41,698 #36,761 1.452 2011 #42,824 #37,754 1.491 2012 #43,981 #38,773 1.532 2013 #46,388 #40,895 1.573 2014 #46,388 #40,895 1.594 2017 #50,247 #44,298 1.704 2017 #50,247 #45,494 1.750 2018 #51,604 #45,494 1.750 2019 #52,997 #46,722		<i>y</i>	Costs	Costs	Costs					
1.112 2001 #32,792 #28,910 1.142 2002 #33,694 #29,705 1.173 2003 #34,604 #30,507 1.205 2004 #35,538 #31,330 1.205 2005 #36,498 #32,176 1.238 2006 #37,483 #32,176 1.305 2007 #38,495 #33,937 1.341 2008 #39,535 #34,854 1.377 2009 #40,602 #35,795 1.414 2010 #41,698 #36,761 1.452 2011 #42,824 #37,754 1.491 2012 #43,981 #38,773 1.532 2013 #45,168 #39,820 1.573 2014 #46,388 #40,895 1.659 2016 #48,926 #41,999 1.659 2016 #48,926 #43,133 1.750 2018 #51,604 #45,298 1.750 2019 #52,997 #46,722		1	\$31,946	\$28,163	\$542	•				
1.142 2002 #33,694 #29,706 1.173 2003 #34,604 #30,607 1.205 2004 #35,538 #31,330 1.238 2005 #36,498 #32,176 1.271 2006 #37,483 #33,045 1.305 2007 #38,495 #33,937 1.341 2008 #36,535 #34,854 1.377 2009 #40,602 #35,756 1.414 2010 #41,698 #36,761 1.452 2011 #42,824 #37,754 1.491 2012 #43,981 #38,775 1.532 2013 #46,168 #40,895 1.615 2016 #44,388 #40,895 1.659 2016 #48,926 #44,298 1.704 2017 #60,247 #44,298 1.750 2018 #52,997 #46,722 1.797 2019 #52,997 #46,722	_		432,792	\$28,910	\$ 556					
1.173 2003 #34,604 #30,507 1.205 2004 #35,538 #31,330 1.238 2006 #36,498 #32,176 1.271 2006 #37,483 #33,045 1.305 2007 #38,495 #33,937 1.341 2008 #39,535 #34,854 1.377 2009 #40,602 #35,795 1.414 2010 #41,698 #36,761 1.452 2011 #42,824 #37,754 1.491 2012 #43,981 #38,775 1.532 2014 #46,388 #40,895 1.573 2014 #46,388 #40,895 1.659 2016 #48,926 #43,133 1.704 2017 #50,247 #44,298 1.704 2017 #50,247 #45,494 1.797 2019 #52,997 #46,722	_		\$33,694	\$29,705	\$571					
1.205 2004 +35,538 +31,330 1.238 2005 +36,498 +32,176 1.271 2006 +37,483 +33,045 1.305 2007 +38,495 +33,937 1.341 2008 +39,535 +34,854 1.377 2009 +40,602 +35,795 1.414 2010 +41,698 +36,761 1.452 2011 +42,824 +37,754 1.491 2012 +43,981 +38,775 1.532 2013 +46,388 +40,895 1.615 2016 +46,388 +40,895 1.659 2016 +48,926 +41,999 1.704 2017 +60,247 +44,298 1.704 2017 +60,247 +45,494 1.750 2018 +52,997 +46,722			434,604	\$30,507	\$587					
1.238 2005 436,498 432,176 1.271 2006 437,483 433,045 1.305 2007 438,495 433,937 1.341 2008 439,535 434,854 1.347 2009 440,602 436,795 1.452 2011 442,824 437,754 1.491 2012 443,981 438,773 1.532 2013 445,168 440,895 1.573 2014 446,388 440,895 1.659 2016 448,926 441,999 1.704 2017 450,247 444,298 1.704 2017 450,247 444,298 1.707 2019 452,997 446,722 1.797 2019 452,997 446,722			\$35,538	\$31,330	\$ 603					
1.271 2006 437,483 433,045 1.305 2007 438,495 433,937 1.341 2008 439,535 434,854 1.377 2009 440,602 435,795 1.414 2010 441,698 436,761 1.452 2011 442,824 437,754 1.491 2012 443,981 438,773 1.532 2013 445,168 439,820 1.573 2014 446,388 440,895 1.615 2016 448,926 441,999 1.704 2017 450,247 444,298 1.704 2017 450,247 444,298 1.705 2018 451,604 445,722 1.797 2019 452,997 446,722			\$36,498	\$32,176	\$619					
1,305 2007 #38,495 #33,937 1,341 2008 #39,535 #34,854 1,377 2009 #40,602 #35,795 1,414 2010 #41,698 #36,761 1,452 2011 #42,824 #37,754 1,491 2012 #43,981 #38,775 1,532 2013 #45,168 #39,820 1,573 2014 #46,388 #40,895 1,615 2016 #48,926 #41,999 1,704 2017 #60,247 #44,298 1,750 2018 #51,604 #45,494 1,797 2019 #52,997 #46,722 1,797 2019 #52,997 \$734,071	_		\$37,483	\$33,045	\$ 635					
1.341 2008 #39,536 #34,854 1.377 2009 #40,602 #35,796 1.414 2010 #41,698 #36,761 1.452 2011 #42,824 #37,754 1.491 2012 #43,981 #38,773 1.532 2013 #45,168 #39,820 1.573 2014 #46,388 #40,895 1.615 2016 #48,926 #41,999 1.704 2017 #60,247 #44,298 1.750 2018 #51,604 #45,494 1.797 2019 #52,997 #46,722 1.797 2019 #52,997 \$734,071	***		\$38,495	\$33,937	\$653					
1.377 2009 #40,602 #35,795 1.414 2010 #41,698 #36,761 1.452 2011 #42,824 #37,754 1.491 2012 #43,981 #38,773 1.532 2013 #45,168 #39,820 1.573 2014 #46,388 #40,895 1.615 2015 #47,640 #41,999 1.659 2016 #48,926 #43,133 1.704 2017 #50,247 #44,298 1.750 2018 #51,604 #45,494 1.797 2019 #52,997 #46,722	_		\$39,535	134,854	0 490					
1.414 2010 #41,698 #36,761 1.452 2011 #42,824 #37,754 1.491 2012 #43,981 #38,775 1.532 2013 #45,168 #39,820 1.573 2014 #46,388 #40,895 1.615 2016 #47,640 #41,999 1.659 2016 #48,926 #43,133 1.704 2017 #50,247 #44,298 1.750 2018 #51,604 #45,494 1.797 2019 #52,997 #46,722 1.797 2019 #52,997 #46,722	_		\$40,602	\$35,795	\$688					
1.462 2011 #42,824 #37,754 1.491 2012 #43,981 #38,773 1.532 2013 #45,168 #39,820 1.573 2014 #46,388 #40,895 1.615 2016 #47,640 #41,999 1.659 2016 #48,926 #43,133 1.704 2017 #50,247 #44,298 1.750 2018 #51,604 #45,494 1.797 2019 #52,997 #46,722 1.797 2019 #52,997 #46,722	_		441,698	\$36,761	\$707					
1.491 2012 #43,981 #38,773 1.532 2013 #45,168 #39,820 1.573 2014 #46,388 #40,895 1.615 2016 #47,640 #41,999 1.659 2016 #48,926 #43,133 1.704 2017 #60,247 #44,298 1.750 2018 #61,604 #45,494 1.797 2019 #52,997 #46,722 1.797 2019 #52,997 \$734,071	_		442,824	\$37,754	\$726					
1.532 2013 \$45,168 \$39,820 1.573 2014 \$46,388 \$40,895 1.615 2015 \$47,640 \$41,999 1.659 2016 \$48,926 \$43,133 1.704 2017 \$60,247 \$44,298 1.750 2018 \$51,604 \$45,494 1.797 2019 \$52,997 \$46,722 Total \$83.763 \$734,071			\$43,981	\$38,773	\$746					
1.573 2014 \$46,388 \$40,895 1.615 2015 \$47,640 \$41,999 1.659 2016 \$48,926 \$43,133 1.704 2017 \$60,247 \$44,298 1.750 2018 \$61,604 \$45,494 1.797 2019 \$62,997 \$46,722 Total \$832,663 \$734,071	_		\$45,168	\$39,820	\$166					
1.615 2016 \$47,640 \$41,999 1.659 2016 \$48,926 \$43,133 1.704 2017 \$60,247 \$44,298 1.750 2018 \$51,604 \$45,494 1.797 2019 \$52,997 \$46,722			\$46,388	\$40,895	\$786					
1.659 2016 \$48,926 \$43,133 1.704 2017 \$60,247 \$44,298 1.750 2018 \$51,604 \$45,494 1.797 2019 \$52,997 \$46,722 Total \$832,663 \$734,071	_		\$47,640	\$41,999	\$808					
1.764 2017 \$50,247 \$44,298 1.750 2018 \$51,604 \$45,494 1.797 2019 \$52,997 \$46,722 Total \$832,663 \$734,071	_		\$48,926	\$43,133	\$829					
1.750 2018 \$51,604 \$45,494 1.797 2019 \$52,997 \$46,722 Total \$832,663 \$734,071	_		\$50,247	\$44,298	\$852					
1.797 2019 \$52,997 \$46,722 Total \$832 663 \$734.071	,		\$51,604	\$45,494	\$875					
\$832 663 \$734.071	_		\$52,997	\$46,722	\$899	ı				
		Total	\$832,663	\$734,071	\$14,117	ı				

Channel Armor Gap West (XMR-10b)

First Costs and Ameual Charges

				Federal	LDNR			i	
	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	
	Year	A Deslan	& Land Rights	Administration	Administration & Inspection	& Inspection	Contingency	Construction	اء
		S	9	3	2	2	\$		3
				. 5	3	9	3		3
	2	200,000	000,000	425 A00	\$22.400	90	3		2
	200	189,200	3	907'C7#	£33 600	\$73,000	\$337.250	\$1,349,000	8
	1000		3	000°00°		000 64	4227 250	C1 349 DO	
	2000	2	3	\$16,000	\$26,000	3/3,000	007,100		3
5	LAI	C274 DOO	000 665	\$80,000	\$82,000	\$146,000	\$674,500	\$2,698,000	8
2	4								
	Fisce	Monttoning	OGM	Other					
	Year	Costs	S	Costs	,				
	2001	\$9.831	2	\$200					
	2002	\$9,831	2	\$200					
	2003	\$9,831	\$	\$200					
	2007	\$9,831	2	\$200					
	2005	\$9,631	3	\$200					
	2006	•	2		_				
	2007	\$9,831	S	•					
	2008	169,831	3						
	2008	-	3.						
	2010	_	3		_				
	2011	-	\$		_				
	2012	\$9,831	2	-	•				
	2013	158.831	3		•				
	2014		2		•				
	2015		2	\$200	0				
	2516		3	\$200	0				
	2017			\$200	0				
	2018		\$	\$200	0				
	2019		3		•				
	2070				0				
11-	Total	2		\$10,000	0				

Channel Armor Gap West (XMR-10b)

Prese	Present Valued Costs		Total Discounted Costs	ed Costs	4, 680,011			Amortized Costs	2	. \$454,717
					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	0	3	3	\$	S.	9	3	೩	3
₹	1.329	1991	\$33,232	\$131,588	3	%	%	2	3	\$164,829
6	1.238	1998	\$246,603	\$	\$31,692	\$27,730	9	2	3	\$306,028
7	1.153	1999	\$57,416	2	\$44,273	\$38,739	\$84,165	\$388,829	\$1,555,315	\$2,168,736
_	1.074	2000	\$	\$	\$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	Other					
Year		Year	Costs	Costs	Costs					
7	0.931	2001	\$9,156	2	\$466	ı				
.5	0.867	2002	\$8,527	2	8434					
ċ	0.806	2003	\$7,941	\$	\$					
7	0.752	2004	\$7,396	<u>\$</u>	\$376					
ς'n	0.701	2002	\$6,888	3	\$350					
4	0.653	2008	\$6,415	3	\$326					
-1	909.0	2007	\$5,974	\$	\$304					
₩,	0.568	2008	\$5,564	3	\$283					
ģ	0.527	2009	\$5,182	3	\$264					
우	0.491	2010	\$4,826	<u>\$</u>	\$245					
÷	0.457	2011	\$4,484	\$	\$228					
-12	0.426	2012	\$4,186	%	\$213					
-13	0.397	2013	\$3,898	≈	\$188					
-14	0.369	2014	\$3,630	3.	\$185					
-15	0.344	2015	\$3,381	S	\$172					
-16	0.320	2016	\$3,149	\$	\$160					
7.5	2.296	2017	\$2,933	0\$	\$143			1		
₽.	0.278	2018	\$2,731	3						
-19	0.259	2018	\$2,544	3	\$129					
-20	0.241	2020	\$2,369	0\$	\$120					
	•	Total	\$101,182	S	\$5,146	l				
	Average Applicat	Term.	\$9.831	05	\$500	_				
			•	,						

•

Channel Armor Gap West (XMR-10b)

Fully Fi	Fully Funded Costs	-	Total Fully Funded Costs	ded Costs	\$4.612.554			Amortized Costs	•	\$448,163
					Federal	LDNR				i
	Affetton	Fleral	Fortingenino	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
2		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A Desirin	£ 1 and Riohls	Administration	Administration Administration & Inspection	& Inspection	Contingency	Construction	Cost
189	T delige		S.	93	3	2	3		0\$	3.
ი •	•	100	\$25 000	299 000	3	2	2	3	9	\$124,000
4	000.	/981	000°	5	\$28.291	\$23,005	90	2	9	\$253,874
m	1.027	200	0/0'4074		640502	615 439	\$76.995	\$355.707	\$1,422,629	\$1,983,998
7	1.055	1999	976,264		440,004	428 163	\$79.074	\$365,311	\$1,461,246	\$1,951,126
-	1.083	2000	2	3	155,714	\$20,103	080 230	6721 010	\$2 884 075	\$4 312 998
	Ĭ	TOTAL	\$282,104	000'66\$	\$84.124	/00'00¢	800'0C1¢	610,1374		
	or de la constante de la const	Fisco	Monitoring	M80	Other					
		, kg	Costs	Costs	Costs					
103	1112	2001	\$10.931	3	\$558	1.				
- •	142	2002	\$11,232	2	\$571					
; 1 •	1.142	2002	41 535			_				
. ė	1.1/3	202	\$11.847							
7	1.603	507	997	_						
Ġ	1.238	2002	\$12,160							
φ	1.271	2006			•	•				
-	1.305	2002	••	••						
œ	1.341	2008	\$13,179	•						
o Oț	-	2009	\$13,535			_				
. 10	_	2010	\$13,900	9		~				
=	_	2011	\$14,275			æ				
.12	,-	2012	•			6				
EF-	•	2013	1 \$15,057			&				
7-		2014	\$15,463			9				
. .	_	2015	\$15,881	3. _		•				
1.	_	2016	\$ \$16,309	3		ø				
71.	•	2113	\$18 750	S		8				
- 12	_	2018	\$ \$17,202	₽		ξŲ.				
91-	,	2019								
.20	•	2020	\$18,143	3		<u>e</u> l				
ì		Total	\$285,058	2	\$14,498	9				

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

Average	\$737,300 \$29,500 \$108,400 \$500	\$875,700	308	\$2,843	235
Present	\$7,588,600 \$303,500 \$1,115,300 \$5,100	\$9,012,500			
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

Lake Boudreaux (TE-7f) - Alternative A

First Costs and Annual Charges

	First Cost Total First	Contingency Construction Cost	0\$	0\$ 0\$ 0\$	\$0 \$150,000	\$0 \$673,500	\$1,183,750 \$4,735,000 \$6,171,250	000 301 14	\$1,183,75U \$4,735,00U \$0,884,75U																							
	Supervision	i	0\$	%	0\$	0\$	\$70,000 \$1.		\$70.000 \$1.																							
LDNR	Supervision & Supervision	Administration Administration & Inspection	0\$	\$	%	\$50,000	\$64,000		\$114,000																							
Federal	Supervision &	Administration	\$	\$	\$	\$118,500	\$118,500		\$237,000	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	0\$	9	\$120,000	0\$	%		\$120,000	08M	Costs	\$29,000	\$29,000	\$59,000	\$29,000	\$59,000	\$59,000	\$29,000	\$59,000	\$59,000	\$1,094,000	\$59,000	\$59,000	\$29,000	\$29,000	\$59,000	\$59,000	259,000	\$59,000	\$59,000	\$59,000	\$2,215,000
	Engineering	& Design	3	3	\$30,000	\$505,000	3		\$535,000	Monitoring	Costs	\$29,482	\$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
		Year	5 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	_	16 Discount	17 Discount	18 Discount	19 Discount	20 Discount	

Coastal Wetlands Conservation and Restoration Plan Priority Project List

Lake Boudreaux (TE-7f) - Alternative A

	Presen	Present Valued Costs	·	Total Discounted Costs	ed Costs	\$9,012,549			Amortized Costs	<u>s</u>	\$875,674
						Federal	LDNR				
	;	Compound	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
	rear	Kales	rear	& Design	& Land Rights	Administration	Administration & Inspection	& Inspection	Contingency	Construction	Cost
	S	1.427	0	%	S,	≎	9	%	S	0\$	0\$
	4	1.329	1997	S	9	\$	2 0	20	\$ 0	20	. S
	3	1.238	1998	\$37,139	\$148,556	\$	0\$	0\$. \$	S	\$185,695
	7	1.153	1999	\$582,234	O \$	\$136,623	\$57,647	\$0	\$. 0 5	\$776,504
	-	1.074	2000	9	9	\$127,239	\$68,720	\$75,163	\$1,271,052	\$5,084,206	\$6,626,380
		T	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					
I	7	0.931	2001	\$27,466	\$54,948	\$466					
)-6	·5	0.867	2002	\$25,580	\$51,174	\$434					
5	с -	0.808	2003	\$23,823	\$47,659	\$404					
	4	0.752	2004	\$22,187	\$44,385	\$376					
	ç.	0.701	2005	\$20,663	\$41,337	\$320					
	9	0.653	.2006	\$19,244	\$38,498	\$326					
	-1	0.608	2007	\$17,922	\$35,853	\$304					
	8-	0.566	2008	\$16,691	\$ 33,391	\$283					
	6-	0.527	2009	\$15,544	\$31,097	\$264					
	-10	0.491	2010	\$14,477	\$537,014	\$245					
	÷	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					
		Total	tal	\$303,536	\$1,115,288	\$5,146					
	4	Average Annual	=	\$29,492	\$108,363	\$500					

Coastal Wetlands Conservation and Restoration Plan

Lako Boudreaux (TE-7f) - Alternative A

ully Fu	Fully Funded Costs	•	Total Fully Funded Costs	ded Costs	\$11,592,922			Amodized Costs	sł.	\$1,126,387
					Federal	LDNR				;
	Inflation	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Year	Factor	Year	& Design	& Land Rights		Administra	& Inspection	Continger	Construction	Cost
ي		0	3	0\$	9	<u>\$</u>	2 0	9	3	0
, 4	1 000	1997	3	S	%	\$	\$ 0	\$	\$	9
~ ~	1 027	1998	\$30.810	\$123,240	\$	\$	0\$	%	9	\$154,050
, ,	1.055	1999	\$532,638	0\$	\$124,985	\$52,736	\$	\$	0\$	\$710,360
, -	1 083	2000	0\$	0\$	\$128,360	\$69,325	\$75,824	\$1,282,246	\$5,128,984	\$6,684,739
-	1	TOTAL	\$563,448	\$123,240	\$253,345	\$122,062	\$75,824	\$1,282,246	\$5,128.984	\$7,549,149
	Inflation	Fiscal	Monitoring	O&M	Other					
Year	Factor	Year	Costs	Costs	Costs					
-	1.112	2001	\$32,792	\$65,603	\$556					
. 7-	1.142	2002	\$33,694	\$67,407	\$571					
ن.	1,173	2003	\$34,604	\$69,227	\$587					
4	1.205	2004	\$35,538	\$71,096	\$ 603					
ķ	1.238	2005	\$36,498	\$73,016	\$619					
မှ	1.271	2006	\$37,483	\$74,987	\$635					
	1.305	2007	\$38,495	\$77,012	\$ 653					
8	1.341	2008	\$39,535	\$79,091	\$670					
Ó	1.377	2009	\$40,602	\$81,226	\$688					
-10	1.414	2010	\$41,698	\$1,546,796	\$707					
=	1.452	2011	\$42,824	\$85,672	\$126					
-15	1.491	2012	\$43,981	\$84,985	\$746					
13	1.532	2013	\$45,168	\$90,361	\$766					
-14	1.573	2014	\$46,388	\$92,800	\$786					
-15	1,615	2015	\$47,640	\$95,306	\$808					
91-	1.659	2016	\$48,926	\$97,879	\$829					
-17	1.704	2017	\$50,247	\$100,522	\$852					
-18	1.750	2018	\$51,604	* \$103,236	\$875					
-19	1.797	2019	\$52,997	\$106,023	668\$					
-20	1.846	2020	\$54,428	\$108,886	\$923					
		Total	\$855,145	\$3,174,130	\$14,498					

Coastal Wetlands Conservation and Restoration Plan Priority Project List V

Lake Boudreaux (TE-71) - Alternative B

Total Project Years	Amoritization Factor 0 0971616	Total Fully Funded Costs \$9,831,300
4	7.38%	\$6,415,300
Project Construction Years:	Interest Rate	Total First Costs

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

Costs amortized over 20 year operation life

Coastal Wetlands Conservation and Restoration Plan

Priority Project List

Lake Boudreaux (TE-7f) - Alternative B

First Costs and Annual Charges

Coastal Wetlands Conservation and Restoration Plan Priority Project List

Lake Boudreaux (TE-7f) - Alternative B

Se	Present Valued Costs		Total Discounted Costs	ed Costs	\$7,662,488			Amortized Costs	ıts	\$744,500
					Federal	LDNR				
	Compound	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	1.427	0	0\$	3	0\$	9	\$0	1	05	05
4	1 329	1997	S	9	. 3	. S	. S	. S	05	9
٣	1.238	1998	\$37,139	\$148,556	9	. .	9.05	<u> </u>	9	\$185.695
7	1.153	1999	\$516,517	9	\$114,717	\$57,647	S	9	0\$	SCRR 881
-	1 074	2000	0\$	\$	\$106,838	\$68,720	\$75,163	\$1,066,234	\$4,264,935	\$5 581 889
	1	Total	\$553,656	\$148,556	\$221,556	\$126,367	\$75,163	\$1,066,234	\$4,264,935	\$6,456,466
	Discount	Fiscal	Monitoring	08M	Other					
Year	Rates	Year	Costs	Costs	Costs	-				
Ţ	0.931	2001	\$27,466	\$54,948	\$466					
-,5	0.867	2002	\$25,580	\$51,174	\$434					
-3	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					
7	0.608	2007	\$17,922	\$35,853	\$304					
8-	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					
=	0.457	2011	\$13,482	\$26,972	\$229					
-15	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					
	10	Total	\$303,536	\$897,341	\$5,146					
	Average Annual	75	\$29,492	\$87,187	\$500					
	ı			•	•					

Coastal Wellands Conservation and Restoration Plan

Lake Boudreaux (TE-7f) - Alternative B

Year Final Librid Field Final Librid Field Final Librid Libri	Fully F	Fully Funded Costs		Total Fully Funded Costs	ded Costs	\$9,831,306			Aniorlized Costs	S	\$955,225
Factor Factal Engineering Easements Supervision & Supervision & Supervision Factor Facto						Federal	LDNR				
Factor Year & Design & Land Rights Administration Administration Constitution 1 000 100 \$0<		Inflation	Fiscal	Engineering	Easements	Supervision &		Supervision		First Cost	Total First
1000 1997 50 50 50 50 50 50 50 5	Хеаг	Factor	Year	& Design	& Land Rights	Administration	Administration &	Inspection		Construction	Cost
1000 1997 450 5123.240 50 50 50 50 50 50 50	5		0	9	\$	\$	0 \$	0\$	\$ 0	9\$	9
1027 1998 \$30,810 \$123,240 \$50,946 \$52,736 \$90 \$50 \$10	4	1 000	1897	3	0\$	\$	\$	\$	3	9	Ģ
1055 1999 \$472,519 50 5104,946 552,736 510 50 50 510	٠,	1.027	1998	\$30,810	\$123,240	9	9	9	9	9	\$154,050
1083 2000 \$10 \$107,779 \$69,325 \$775,824 \$4,302,497 1083 1077AL \$503,329 \$123,240 \$212,725 \$122,062 \$75,824 \$4,302,497 10414alau Fiscal Monitoring O&M Other Factor Year Costs	2 0	1.055	1999	\$472,519	9	\$104,946	\$52,736	\$	0\$	\$	\$630,201
Inflation Fiscal Monitoring \$123,240 \$212,725 \$122,062 \$75,824 \$1,075,624 \$4,302,497 Factor Year Costs	-	1 083	2000	9	9	\$107,779	\$69,325	\$75,824	\$1,075,624	\$4,302,497	\$5,631,050
Inflation Fiscal Monitoring O&M Oithe Factor Year Costs		1	1 .	\$503,329	\$123,240	\$212,725	\$122,062	\$75,824	\$1,075,624	\$4,302,497	\$6,415,301
Factor Year Costs Costs Costs 1.112 2001 \$32,792 \$65,603 1.112 2002 \$34,604 \$69,227 1.173 2003 \$34,604 \$69,227 1.205 2004 \$35,538 \$71,096 1.238 2005 \$36,498 \$73,016 1.271 2006 \$37,483 \$74,987 1.305 2007 \$38,495 \$77,012 1.341 2006 \$39,535 \$79,091 1.377 2009 \$40,602 \$81,226 1.414 2010 \$41,698 \$919,029 1.441 2010 \$42,824 \$85,672 1.452 2011 \$42,824 \$87,685 1.532 2013 \$42,824 \$87,685 1.532 2014 \$46,388 \$92,800 1.615 2014 \$46,386 \$97,819 1.532 2014 \$46,386 \$97,819 1.704 2017 \$50,247		Inflation	Fiscal	Monitoring	08M	Olher					
1.112 2001 \$32,792 \$65,603 1.142 2002 \$33,694 \$67,407 1.173 2003 \$34,604 \$69,227 1.205 2004 \$35,538 \$71,096 1.205 2005 \$36,498 \$73,016 1.271 2006 \$37,483 \$74,987 1.305 2007 \$38,495 \$77,012 1.341 2008 \$39,535 \$79,091 1.341 2008 \$39,535 \$79,091 1.444 2010 \$41,698 \$919,029 1.452 2011 \$42,824 \$85,672 1.451 2012 \$43,981 \$87,985 1.532 2013 \$45,168 \$90,361 1.573 2014 \$46,388 \$92,800 1.615 2016 \$48,926 \$97,879 1.704 2017 \$50,247 \$106,522 1.704 2018 \$51,604 \$106,623 1.704 2019 \$54,428 \$103,236 1.704 2019 \$52,947 \$106,623 \$106,623	Үеаг	Factor	Year	Costs	Costs	Costs	,				
1.142 2002 \$33,694 \$67,407 1.173 2003 \$34,604 \$69,227 1.205 2004 \$35,538 \$71,096 1.238 2005 \$36,498 \$73,016 1.271 2006 \$37,483 \$74,987 1.341 2007 \$38,495 \$77,012 1.341 2008 \$39,535 \$79,091 1.377 2009 \$40,602 \$81,226 1.452 2011 \$41,698 \$919,029 1.452 2011 \$42,824 \$85,672 1.491 2012 \$43,981 \$81,985 1.532 2013 \$45,168 \$90,361 1.573 2014 \$46,388 \$92,800 1.615 2015 \$47,640 \$95,306 1.659 2016 \$48,926 \$97,879 1.704 2017 \$50,247 \$106,522 1.750 2019 \$54,428 \$106,623 1.797 2019 \$52,997 \$108,886 1.846 2020 \$55,967 \$108,825,365	-	1.112	2001	\$32,792	\$65,603	\$556	1				
1.173 2003 \$34,604 \$69,227 1.205 2004 \$35,538 \$71,096 1.238 2005 \$36,498 \$73,016 1.271 2006 \$37,483 \$74,987 1.341 2007 \$38,495 \$77,012 1.341 2008 \$39,535 \$79,091 1.377 2009 \$40,602 \$81,226 1.445 2010 \$41,698 \$919,029 1.452 2011 \$42,824 \$85,672 1.491 2012 \$43,981 \$87,985 1.532 2013 \$45,168 \$90,361 1.573 2014 \$46,388 \$92,800 1.615 2015 \$47,640 \$95,306 1.659 2016 \$48,926 \$97,879 1.704 2017 \$50,247 \$106,522 1.797 2019 \$55,997 \$106,023 1.846 2020 \$54,428 \$108,886 1.941 \$2020 \$55,997 \$108,886 1.846 \$2020 \$54,428 \$108,866	-5	1.142	2002	\$33,694	\$67,407	\$571					
1.205 2004 \$35,538 \$71,096 1.238 2005 \$36,498 \$73,016 1.271 2006 \$37,483 \$74,987 1.305 2007 \$38,495 \$77,012 1.341 2008 \$39,535 \$79,091 1.377 2009 \$40,602 \$81,226 1.449 2010 \$41,698 \$919,029 1.491 2012 \$43,981 \$85,672 1.491 2012 \$43,981 \$87,985 1.532 2013 \$45,168 \$90,361 1.532 2014 \$46,388 \$90,361 1.573 2014 \$46,388 \$90,361 1.615 2016 \$48,926 \$97,879 1.704 2017 \$50,247 \$106,522 1.797 2018 \$51,604 \$106,023 1.846 2020 \$54,428 \$108,886 1.846 2020 \$55,997 \$108,886 1.941 \$25,546,363 \$514	ئ.	1.173	2003	\$34,604	\$69,227	\$587					
1.238 2005 \$36,498 \$73,016 1.271 2006 \$37,483 \$74,987 1.305 2007 \$38,495 \$77,012 1.341 2008 \$39,535 \$79,091 1.377 2009 \$40,602 \$81,226 1.414 2010 \$41,698 \$919,029 1.452 2011 \$42,824 \$85,672 1.491 2012 \$43,981 \$87,985 1.532 2013 \$45,168 \$90,361 1.532 2014 \$46,388 \$92,800 1.513 2014 \$46,388 \$92,800 1.615 2015 \$47,640 \$95,306 1.659 2016 \$48,926 \$97,879 1.704 2017 \$50,247 \$106,522 1.750 2018 \$51,604 \$106,023 1.846 2020 \$54,428 \$108,886 1.846 \$2020 \$54,428 \$108,086 1.846 \$204,824 \$108,086 <t< td=""><td>4</td><td>1.205</td><td>2004</td><td>\$35,538</td><td>\$71,096</td><td>\$603</td><td></td><td></td><td></td><td></td><td></td></t<>	4	1.205	2004	\$35,538	\$71,096	\$603					
1 271 2006 \$37,483 \$74,987 1 305 2007 \$38,495 \$77,012 1 341 2008 \$39,535 \$79,091 1 377 2009 \$40,602 \$81,226 1 414 2010 \$41,698 \$919,029 1 452 2011 \$42,824 \$85,672 1 491 2012 \$43,981 \$87,985 1 532 2013 \$45,168 \$90,361 1 513 2014 \$46,386 \$90,361 1 513 2014 \$46,386 \$90,361 1 513 2014 \$46,386 \$90,361 1 513 2014 \$46,386 \$90,361 1 514 2015 \$48,926 \$97,879 1 704 2017 \$50,247 \$106,522 1 750 2018 \$51,604 \$106,023 1 846 2020 \$54,428 \$108,886 1 846 \$2020 \$54,428 \$108,886 1 845 \$25,546,363 \$10	ċ	1.238	2005	\$36,498	\$73,016	\$619					
1305 2007 \$38,495 \$77,012 1341 2008 \$39,535 \$79,091 1377 2009 \$40,602 \$81,226 1414 2010 \$41,698 \$919,029 1452 2011 \$42,824 \$85,672 1491 2012 \$43,981 \$87,985 1532 2013 \$45,168 \$90,361 1573 2014 \$46,388 \$92,800 1615 2015 \$47,640 \$95,306 1659 2016 \$48,926 \$97,879 1704 2017 \$50,247 \$100,522 1.750 2018 \$51,604 \$106,023 1.797 2019 \$52,997 \$106,023 1.846 2020 \$54,428 \$108,886 1.946 \$55,546,363 \$10	9	1.271	2006	\$37,483	\$74,987	\$635					
1.341 2008 \$39,535 \$79,091 1.377 2009 \$40,602 \$81,226 1.414 2010 \$41,698 \$919,029 1.452 2011 \$42,824 \$85,672 1.491 2012 \$43,981 \$87,985 1.532 2013 \$45,168 \$90,361 1.573 2014 \$46,388 \$92,800 1.615 2015 \$47,640 \$95,306 1.659 2016 \$48,926 \$97,879 1.704 2017 \$50,247 \$100,522 1.750 2018 \$51,604 \$103,236 1.797 2019 \$52,997 \$106,023 1.846 2020 \$54,428 \$108,886 1.946 2020 \$55,145 \$2,546,363 \$10	1-	1.305	2007	\$38,495	\$77,012	\$653					
1377 2009 \$40,602 \$81,226 1414 2010 \$41,698 \$919,029 1452 2011 \$42,824 \$85,672 1491 2012 \$43,981 \$85,672 1532 2013 \$45,168 \$90,361 1573 2014 \$46,388 \$92,800 1615 2015 \$47,640 \$95,306 1659 2016 \$48,926 \$97,879 1704 2017 \$50,247 \$100,522 1.750 2018 \$51,604 \$103,236 1.797 2019 \$52,997 \$106,023 1.846 2020 \$54,428 \$108,886 1.618 \$52,997 \$106,023 1.846 2020 \$55,145 \$2,546,363 \$14	8	1.341	2008	\$39,535	\$79,091	\$670					
1.414 2010 \$41,698 \$919,029 1.452 2011 \$42,824 \$85,672 1.491 2012 \$43,981 \$85,672 1.532 2013 \$45,168 \$90,361 1.573 2014 \$46,388 \$92,800 1.615 2015 \$47,640 \$95,306 1.659 2016 \$48,926 \$97,879 1.704 2017 \$50,247 \$100,522 1.750 2018 \$51,604 \$103,236 1.797 2019 \$52,997 \$106,023 1.846 2020 \$54,428 \$108,886 Total \$655,145 \$2,546,363 \$14	Ģ	1.377	2009	\$40,602	\$81,226	\$688					
1,452 2011 \$42,824 \$85,672 1,491 2012 \$43,981 \$87,985 1,532 2013 \$45,168 \$90,361 1,573 2014 \$46,388 \$92,800 1,615 2015 \$47,640 \$95,306 1,659 2016 \$48,926 \$97,879 1,704 2017 \$50,247 \$100,522 1,750 2018 \$51,604 \$103,236 1,797 2019 \$52,997 \$106,023 1,846 2020 \$54,428 \$108,886 Total \$855,145 \$2,546,363 \$14	.10	1.414	2010	\$41,698	\$919,029	\$707					
1491 2012 \$43,981 \$87,985 1532 2013 \$45,168 \$90,361 1573 2014 \$46,388 \$92,800 1,615 2015 \$47,640 \$95,306 1,659 2016 \$48,926 \$97,879 1,704 2017 \$50,247 \$100,522 1,750 2018 \$51,604 \$103,236 1,797 2019 \$52,997 \$106,023 1,846 2020 \$54,428 \$108,886 Total \$855,145 \$2,546,363 \$14	-11	1.452	2011	\$42,824	\$85,672	\$726					
1532 2013 \$45,168 \$90,361 1573 2014 \$46,388 \$92,800 1615 2015 \$47,640 \$95,306 1,659 2016 \$48,926 \$97,879 1,704 2017 \$50,247 \$100,522 1,750 2018 \$51,604 \$103,236 1,797 2019 \$52,997 \$106,023 1 846 2020 \$54,428 \$108,886 Total \$855,145 \$2,546,363 \$14	-12	1.491	2012	\$43,981	\$87,985	\$746					
1.573 2014 \$46,388 \$92,800 1.615 2015 \$47,640 \$95,306 1.659 2016 \$48,926 \$97,879 1.704 2017 \$50,247 \$100,522 1.750 2018 \$51,604 \$103,236 1.797 2019 \$52,997 \$106,023 1 846 2020 \$54,428 \$108,886 Total \$855,145 \$2,546,363 \$14	-13	1.532	2013	\$45,168	\$90,361	\$766					
1615 2015 \$47,640 \$95,306 1659 2016 \$48,926 \$97,879 1.704 2017 \$50,247 \$100,522 1.750 2018 \$51,604 \$103,236 1.797 2019 \$52,997 \$106,023 1.846 2020 \$54,428 \$108,886 Total \$855,145 \$2,546,363 \$14	-14	1.573	2014	\$46,388	\$92,800	\$786					
1659 2016 \$48,926 \$97,879 1.704 2017 \$50,247 \$100,522 1.750 2018 \$51,604 \$103,236 1.797 2019 \$52,997 \$106,023 1.846 2020 \$54,428 \$108,886 Total \$855,145 \$2,546,363 \$14	-15	1.615	2015	\$47,640	\$95,306	\$908					
1.704 2017 \$50,247 \$100,522 1.750 2018 \$51,604 \$103,236 1.797 2019 \$52,997 \$106,023 1 846 2020 \$54,428 \$108,886 Total \$855,145 \$2,546,363 \$14	-16	1.659	2016	\$48,926	\$97,879	\$829					
1.750 2018 \$51,604 \$103,236 1.797 2019 \$52,997 \$106,023 1.846 2020 \$54,428 \$108,886 Total \$855,145 \$2,546,363 \$14	.17	1.704	2017	\$50,247	\$100,522	\$825					
1.797 2019 \$52,997 \$106,023 1.846 2020 \$54,428 \$108,886 Total \$655,145 \$2,546,363 \$14	-18	1.750	2018	\$51,604	\$103,236	\$875					
1.846 2020 \$54,428 \$108,886 Total \$855,145 \$2,546,363 \$14	- 19	1.797	2019	\$52,997	\$106,023	\$899					
\$855,145 \$2,546,363	-20	1.846	2020	\$54,428	\$108,886	\$923	,				
		_	Total	\$855,145	\$2,546,363	\$14,498					

4/10/97

istal Wetlands Conservation and Restoration Plan	Priority Project List VI
Coastal	

Lafourche Dedicated Dradging Increment 1(CW-61)
Cne-Six Inch Aquamog SRX-109

Project Construction Years:	6	Total Project Years	23
Inderest Rate	7.36%	Amorlization Factor	0.0971616
Total First Costs	\$868,600	Total Fully Funded Costs	\$8,163,100

nnual Chames	Present Worth	Average
nterest & Amortization Abnitoring) & M Costs	\$977,900 \$50,700 \$2,603,200 \$5,100	\$95,000 \$4,900 \$252,900 \$500
	\$3,636,900	\$353,300
Average Annual Habitat Units		130
Cost Per Habitat Unit		\$2,718
Average Annual Acres of Emergent Marsh		254

Coastal Wellands Conservation and Restoration Plan Priority Project List VI

Lafourche Dedicated Dradging Increment 1(CW-8i)

First Costs and Annual Charges

	•			Federal	LDNR				
Year	Flecal	Engineering	Easemont	Supervision &	Supervision & Su,			First Cost	Total First
- 1		e Design	& Land Rights	Administration	Administration Administration & Inspection Continuancy	ction (Confinancy	Construction	1
		3	3	3	9	S	S		- 1
	Ž.	3	\$	2	3	ន	3 \$	3	3 8
	1961 pund	\$100,000	\$250,000	8	. S	3	3	₹ \$	3
2 Compound		\$150,000	3	\$2,595	\$2.595	3	\$ 5	2 5	000'055\$
1 Compound Base Year	und 1999	2	2	\$2,595	\$13,595	3	\$64,875	\$259,500	\$155, \$340,565
	TOTAL	\$250,000	\$250,000	\$5,180	\$16,190	2	\$64,875	\$259,500	\$845.755
	Fiscal	Monitorina	780	C					
Year	Yex	Costs	Costs						
1 Discount	2000	\$4,929	\$252,835	\$500					
2 Discount	nd 2001	\$4,829	\$252,935	\$500					
3 Discount		\$4 ,829	\$252,935	\$500					
4 Discount	mt 2003	27 .929	\$252,935	\$500					
5 Discoun	_	\$4,929	\$252,935	\$500					
6 Discoun	_	\$4,828	\$252,935	\$500					
7 Discoun	_	\$4,929	\$252,935	\$500					
8 Discount	¥ 2007	\$4,929	\$252,935	2500					
9 Discount		54 ,929	\$252,935	\$500					
10 Discount		\$4,829	\$252,935	\$500					
_	¥ 2010	\$4,929	\$252,935	\$500					
_		11 ,929	\$252,935	\$500					
13 Discount		8 28	\$252,935	\$500					
_		54 ,929	\$252,935	2500					
_		\$4,929	\$252,935	\$500					
		\$4,929	\$252,935	\$500					
		54,929 .	\$252,935	\$500					
18 Discount	2017	57 .828	\$252,935	\$500					
		\$4,929	\$252,935	\$500					
20 Discoun	_	\$4,929	\$252,935	\$200					
	Total	\$96,580	\$5,058,700	\$10,000					

Coastal Wetlands Conservation and Restoration Plan Priority Project List Vi

Lafourche Dedicated Dredging increment 1(CW-6i)

3	Frederic Values Costs			Discouring Costs	710,150,54				•	מלילים
		•			Federal	LDNR				
	Compound	Fiscal	Engineering	Essements	Supervision &		Supervision		First Cost	Total First
Year	Rates	Year	& Design	& Land Rights	Administration	Administration	Administration & Inspection	Contingency	Construction	Cost
2	1.427	0	2	\$	0\$	3	3	2	%	\$
4	1.329	•	3	3	\$	3	%	3	%	\$
67	1238	1997	\$123.797	\$309,492	2	\$	9	\$	2	\$433,289
~	1.153	1998	\$172.941	3	\$2,992	\$2,992	9	2	0\$	\$178,925
-	1.074	1999	3	3	\$2,786	\$14,598		\$69,660	\$278,638	\$365,682
		Total	\$296,738	\$309,492	\$5,778	\$17,590	3	099'69\$	\$278,638	\$977,895
	Discount	Fiscal	Monitoring	06M	Other					
Year		Year	Costs	Costs	Costs					
-	1	2000	\$4,590	\$235,562	\$466					
ņ	0.867	2001	\$4,275	\$219,383	¥3.					
ņ	0.808	2002	\$3,982	\$204,315	3					
7	0.752	2003	\$3,708	\$190,281	\$376					
Ş	0.701	2004	\$3,453	\$177,212	\$350					
φ	0.663	2005	\$3,216	\$165,040	\$326					
-	0.608	2008	\$2,995	\$153,705	\$304					
₩,	0.586	2007	\$2,790	\$143,147	\$283					
Ġ	0.527	2008	\$2,598	\$133,315	\$264					
9	0.491	2009	\$2,420	\$124,159	\$245					
÷	0.457	2010	\$2,253	\$115,631	\$229					
-12	0.426	2011	\$2,099	\$107,689	\$213					
-13	0.397	2012		\$100,292	\$198					
÷	0.369	2013	\$1,820	\$83,404						
-15	0.344	2014	\$1,695		\$172					
-16	0.320	2015				_				
	902 G	2013		\$75,449	\$149	-			,	
-18	0.278	201/		\$70,267	\$138					
-19	0.259	2018	\$1,275	\$65,441	\$129					
Ş		2019		\$60,948	\$120	أح				
		Total	\$50,730	\$2,603,240	\$5,146					
	•		960			_				
	Average Annual	nuai	676' X	CSR'7C7		_				

Coastal Wetlands Conservation and Restoration Plan Project List VI

Lafourche Dedicated Dredging Increment 1(CW-8i)

Fully F	Fully Funded Coets		Total Fully Fun	Fully Funded Costs	\$8,163,106		Amortized Costs	ş	\$793,140
					Federal	LDNR			
	inflation	Flace	Engineering	Essements	Supervision &	Supervision & Supervision		First Cost	Total First
Year	Factor	Year	& Design	& Land Rights	Administration	Administration & Inspection	n Contingency	Construction	Cost
2		0	೩	2	2	S	2	2	\$
4		0	2	2	2	3	3	3	≎
· ~	1.000	1997	\$100,000	\$250,000	2	2	\$	\$	\$350,000
8	1.027	1966	\$154,050	2	\$2,665	\$2,665	2	⇔	\$159,380
-	1.055	1990	\$	3	\$2,737	\$14,339	\$68,426	\$273,702	\$359,204
	i	TOTAL	\$254,050	\$250,000	\$5,402	\$17,004	\$68,426	\$273,702	\$868,584
	nottefful	Fiscal	Monitoring	OGM	Other				
Year	Factor	Year	Coets	Costs	Costs				
-	1.063	2000	\$5,339	\$273,981	\$542				
**	1.112	2001	\$5,481	\$281,241	\$558				
Ġ	1.142	2002	\$5,631	\$288,978	\$571				
7	1.173	2003	\$5,783	\$296,778	195\$				
'n	1.205	2004	\$5,940	\$304,791	\$603				
φ	1.238	2005	\$6,100	\$313,020	\$619				
1-	1271	2006	\$8,265	\$321,472	\$635				
4	1.305	2007	26,434	\$330,151	\$853				
9	1.341	2008	\$6,607	\$339,066	\$670				
9	1.377	2009		\$348,220	\$69\$				
Ŧ	1414	2010	696'9\$	\$357,622	202\$				
-12	1.452	2011	\$7,157	\$367,278	\$728				
-13	1.491	2012	\$7,350	\$377,185	\$746				
+-	1.532	2013	\$7,548	\$387,379	\$766				
-15	1.573	2014	\$7,753	\$397,838	\$706				
-16	1.615	2015		\$408,580	9093				
A :	5.39-4	2648		\$419,611	\$828		•		
-18	1.704	2017		\$430,941	298		•		
-19	1.750	2018		\$442,576	\$875				
\$,	2019	18,857	\$454,526					
	_	Total	\$139,163	\$7,141,242	\$14,117	i_			

ì

Coastal Wellands Conservation and Restoration Plan Priority Project List VI Lafourche Dedicated Dredging Increment 2(CW-61) One-Eight Inch Aquamog SRX-109

Project Construction Years:	6	Fotal Project Years	
Interest Rate	7.38%	Amortization Factor	0.0971616
Total First Costs	\$1,030,600	Total Fully Funded Costs	\$8,441,200

	Present Worth	Average
Armual Charges		
Interest & Amortization	\$1,151,800	\$111,900 \$4,000
Monitoring	\$50,700 \$2,845,800	\$257,100
O & M Costs Other Costs	\$5,100	\$500
Total	\$3,853,200	\$374,400
STOLI 1 SOLITORI SOLI		195
Average Amori nation of the		64 090
Cost Per Habitat Unit		038.1
Average Annual Acres of Emergent Marsh		379

Costs amortized over 20 year operation life

Coastal Wellands Conservation and Restoration Plan Priority Project List VI

Latourche Dedicated Dredging Increment 2(CW-6ii)

First Costs and Annual Charges

ervision First Cost Total First	Contingency Construction Cost	3	3 3 3	000'050\$ 0\$ 0\$	3.	\$0 \$79,175 \$316,700 \$413,209		\$0 \$79,175 \$316,700 \$1,001,543																							
LDNR Supervision & Supervision	Administration & Inspection	2	2	2	\$3,167	\$14,167		\$17,334																·						•	
Federal Supervision & S	Administration A	S	3	8	\$3,167	\$3,167		\$6,334	Other	Costs	2500	\$200	\$200		200	\$200 \$200	005 3 2500 2500	\$500 \$500 \$500 \$500	\$200 \$200 \$200 \$200 \$200	005 \$	005 t 005 t 005 t 005 t	2005 2006 2006 2006 2006 2006 2006 2006	2005 2005 2005 2005 2005 2005 2005 2005	250 250 250 250 250 250 250 250 250 250	\$200 \$200 \$200 \$200 \$200 \$200 \$200 \$200	\$500 \$500 \$500 \$500 \$500 \$500 \$500 \$500	\$500 \$500 \$500 \$500 \$500 \$500 \$500 \$500	\$500 \$500 \$500 \$500 \$500 \$500 \$500 \$500	\$500 \$500 \$500 \$500 \$500 \$500 \$500 \$500	\$500 \$500 \$500 \$500 \$500 \$500 \$500 \$500	\$500 \$500 \$500 \$500 \$500 \$500 \$500 \$500
Essements	& Land Rights /	3	3	\$250,000	3	2		\$250,000	M80	Costs	\$257,046	\$257,046	\$257,046	070 - 200	950.7678	\$257,046	\$257,046 \$257,046 \$257,046	\$257,046 \$257,046 \$257,046 \$257,046	\$257,046 \$257,046 \$257,046 \$257,046	\$257,046 \$257,046 \$257,046 \$257,046 \$257,046	\$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046	\$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046	\$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046	\$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046	\$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046	\$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046	\$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046	\$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046	\$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046	\$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046	\$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046 \$257,046
Engineering		2	3	\$100,000	\$232,000	3		\$332,000	Monitoring	Costs	\$4,929	\$7 ,929	£4,929	000.0	RZR.Y	7.828 7.928	K.828 K.929 K.929	74 ,929 74 ,929 74 ,929	######################################	# # # # # # # # # # # # # # # # # # #	######################################	######################################	######################################	######################################	######################################	######################################	######################################	######################################	######################################	######################################	######################################
Fiscal				1997	1996	1989		TOTAL	Fiscal	Year	2000	2001	2002	6006	5 257	300	2004 2004 2005	200 4 200 5 2006	2004 2005 2006 2006	2004 2005 2006 2007	2004 2005 2006 2007 2008	2004 2005 2006 2007 2008 2008 2010	2004 2005 2006 2007 2008 2008 2010	2004 2005 2006 2007 2008 2008 2010 2010	2004 2005 2006 2006 2008 2010 2010 2013	2004 2005 2006 2007 2008 2010 2010 2011 2013	2004 2005 2006 2007 2008 2010 2011 2011 2012 2013	2004 2005 2006 2007 2008 2010 2011 2012 2013 2014	2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015	2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015	2004 2005 2006 2007 2008 2010 2010 2011 2014 2014 2015 2016
		Compound	Compound	Compound	Compound	Compound	Base Year				Discount	Discount	Discount	Discount		Discount	Discount Discount	Discount Discount Discount	Discount Discount Discount	Discount Discount Discount Discount											
	Year	S	4		~	-				Year	-	8	•	4	S		•	9 ~	9 ~ 0	8 × 8 8	8 r 8 8 5	8 × 8 6 5 1	8 L B B C T T T	8 V B B C T C C C	8 × 8 8 0 1 2 2 2 2 4 4	8 × 8 8 0 1 1 2 5 1 4 2	8 r 8 8 0 1 1 2 2 2 4 3 5	8	8 C B B C C C C C C C C C C C C C C C C	8	8 / 8 8 0 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2

Costs amortized over 20 y operation We

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Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

Lafourche Dedicated Dredging Increment 2(CW-6II)

Yeser	Present Valued Coets		Total Discounted Costs	d Costs	\$3,853,184	:	•	Amortized Costs	<i>:</i>	\$374,382
					Federal	LDNR			i	
	Compound	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision	•	First Cost	
,	Dodos	Yea.	& Design	& Land Rights	Administration Administration & Inspection	Administration	& Inspection	Contingency	CONSTINCTION	500
BAL	Neces .		S	20	2	3	%	3	2	2
ဂ	1.42/	,	3	9	9	3	%	3	S	2
₹	1.329			£300 403	S	9	3	2	\$	\$433,289
က	1.238	1997	187,621	784'80C *	£2.851	53.651	3	3	\$	\$274,785
8	1.153	1998	\$267,482	3 8	20,00	45,00	9	\$85.014	\$340,057	\$443,683
•	1.074	1999	2	3	10,40	212,016		CB5.014	\$340.057	\$1 151 757
	1	Total	\$391,279	\$309,492	\$7,052	£18,863	2	* 0'00*		
	Discount	Fiscal	Monitoring	OBM	Officer					
×		Year	Costa	Costs	Costs					
		2000	\$4,580	\$239,391	7 68					
,	0.867	2001	\$4,275	••	7434					
4 6		2002	\$3,982	\$207,635	\$ 40 4					
? <		2003	\$3,708	\$193,374	\$376					
1		2004	\$3,453	\$180,092	\$350					
7 4		2005		\$167,723	\$326					
7	0.608	2006		\$156,203	\$ 30 *					
* *	0.566	2007	•	\$145,474	\$283					
o o		2008		••						
-10		2009								
7		2010	\$2,253							
-12		2011		-						
13		2012		•		.				
-		2013	••	./		10 1				
51.		2014	\$1,695			N.				
9		2015	5 \$1,579		••	0				
		2016		876,676		a				
. £		2017				5				
		2018		5 \$66,504		o n				
		2019		8 \$61,937		ol				
į		Total		0 \$2,645,551	1 \$5,146					
			•		6500	G				
	Average Annual	nusi	¥4,929	own',) cz≰ 6	•	•				

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

Lafourche Dedicated Dradging Increment 2(CW-6!!)

Fully F	Fully Funded Costs		Total Fully Fun	Fully Funded Costs	\$6,441,182			Amortized Costs	.	\$620,159
					Federal	LDNR				
	Inflation	Fiscal	Engineering	Easements	Supervision &		Supervision		First Cost	Total First
E 4				S Law Agins	AUTHORIGINA CO.		a mapaciton	Commission	Constituction	200
, 4		>	3	3	3	2 5	2 5	3	2 5	
•	1,000	1997	\$100,000	\$250,000	3	9	S	3 5	8 8	2350 000
~	1.027	1998	\$238.264	3	\$3.253	\$3.253	3	3	3	\$244 769
-	1.055	<u>\$</u>	2	.	\$3,340	\$14,942	8	\$83,508	\$334,033	\$435,824
	,	TOTAL	\$338,284	\$250,000	\$6,593	\$18,195	3	\$83,508	\$334,033	\$1,030,593
	inflation	Flecal	Monthoring	OSM	Other					
Year	Factor	Year	Costs	Sosts	Costs					
-	1.083	2000	\$5,339	\$278,434	\$542	•				
ņ	1.112	2001	\$5,481	\$285,812	\$528					
7	1.142	2002	\$5,631	\$293,672	\$571					
7	1.173	2003	\$5,783	\$301,601	\$587					
Ġ	1.205	2004	\$5,940	\$309,745	\$603	•				
φ	1.238	2002	\$6,100	\$318,108	\$619					
-1	1.271	2008	\$6,265	\$326,697	\$635					
4	1.305	2007	£6,434	\$335,518	\$653					
တု	1.341	2008	\$6,607	\$344,576	\$670					
9	1.377	2006	\$6,786	\$353,880	\$666	.•				
÷	1.414	2010	\$6,969	\$363,435	\$707					
-12	1.452	2011	\$7,157	\$373,248	\$726					
-13	1.491	2012	\$7,350	\$383,325	\$746					
7	1.532	2013	\$7,549	\$393,675	\$766					
-15	1.573	2014	\$7,753	\$404,304	\$786					
91 -	1.615	2015	\$7,962	\$415,220	\$800					
-17	4.659	2016	\$8,177	\$428,431	\$829					
-18	1.704	2017	\$8,396	\$437,845	\$852					
-19	1.750	2018	\$8,625	\$449,770	\$875					
-70	1.797	2019	\$8,857		\$883					
			0000	41000						

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

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Lafourche Dedicated Dredging Increment 3(CW-6III) Two-Six Inch Aquemog SRX-109 (Two Dredges)

Project Construction Years:	•	Total Project Years	73
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

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

Lafourche Dedicated Dredging Increment 3(CW-8iii)

First Costs and Annual Charges

					Federal	LDNR				
		Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision & Supervision	Supervision		First Cost	Total First
Year		Year	& Design	& Land Rights	Administration Administration & Inspection Contingency	Administration	& Inspection	Contingency	Construction	Cost
S	Compound		2	ន	2	Ş	\$	\$	3	3
•	Compound		3	2	2	3	2	2	\$	₽
6	Compound	1997	\$100,000	\$250,000	2	%	2	2	\$	\$350,000
7	Compound	1996	\$300,000	2	2. 790	\$4,790	3	2	%	\$309,580
-	Compound	1996	2	ஃ	24 .790	\$15,790	\$	\$119,750	\$479,000	\$619,330
	Base Year									
		TOTAL	\$400,000	\$250,000	89,580	\$20,580	2	\$119,750	. 000°82 * \$	\$1,278,910
		Flecal	Monitoring	0644	Other					
Year		Year	Costs	Costs	Costs					
-	Discount	2000	\$4,929	\$441,418	2500					
7	Discount	2001	\$4,929	\$441,418	\$200					
6	Discount	2002	£7,829	\$441,418	\$200					
•	Discount	2003	\$4,929	\$441,418	\$200					
S	Discount	2004	••	\$441,418	\$200					
9	Discount	2005	54 ,929	\$441,418	\$200					
7	Discount	2008	77 ,929	\$441,418	\$200					
•	Discount	2007	\$4,929	\$41,418	\$200					
æ	Discount	2008	\$4,929	\$41,418	\$200					
5	Discount	2009	4 ,929	\$41,418	\$500					
Ξ	Discount	2010	\$4,929		\$200					
12	Discount	2011		\$441,418	\$200					
13	Discount	2012		\$441,418	\$200					
7	Discount	2013	₹ 4 .929	\$441,418	\$500					
15	Discount	2014	\$4,929	\$441,418	\$200					
16	Discount	2015	\$4.929	\$41,418	\$200					
17	Discount	2016	676'X	\$441,418	\$200				!	
18	Discount	2017	7 ,929	\$441,418	2500					
19	Discount	2018	\$4,929	\$441,418	\$500					
20	Discount	2019	\$4,928		\$200					
		Total	\$98,580	\$8,828,360	\$10,000	·_				

Costs amortized over 20 year operation life

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Lafourche Dedicated Dredging Increment 3(CW-6III)

			•		į			,		
Presen	Present Valued Costs		Total Discounted Costs	ed Costs	\$6,054,230			Amortized Costs	2	\$588,239
					Federal	LONR				
	Compound	Flecat	Engineering	Easements	Supervision &	Supervision & Supervision	pervision		First Cost	Total First
Year	Rates	Year	& Dealgn	& Land Rights	Administration	Administration Administration & Inspection	Inspection	Contingency	Construction	Co st
5	1.427	0	2	2	\$	2	2	2	3	0\$
4	1.329	•	2	2	\$	\$	\$	2	%	\$ 0
63	1.238	1997	\$123,797	\$309,492	3	3	2	3	%	\$433,289
~	1.153	1996	\$345,882	2	\$5,523	\$5,523	Ş	3	%	\$356,927
-	1.074	1999	\$	₽	\$5,143	\$16,955	3	\$128,582	\$514,326	\$665,006
		Total	\$469,679	\$309,492	\$10,666	\$22,477	3	\$128,582	\$514,326	\$1,455,221
	Discount	Fiscal	Monitoring	OSM	Other					
Year		Year	Coette	Costs	Costs					
		2000	77 ,580	\$411,099	\$46 8	•				
ç	0.867	2001	\$4,275	\$382,863	\$43 4					
ማ	0.808	2002	\$3,982	\$356,566	707					
4	0.752	2003	\$3,708	\$332,076	\$376					
κ'n	0.701	2004	\$3,453	\$309,267	\$350					
φ	0.653	2005	\$3,216	\$288,026	\$326					
1.	0.608	2008	\$2,995	\$268,24 3	30					
4	0.586	2007	\$2,790	\$249,819	\$ 283					
9	0.527	2008	\$2,598	\$232,660	\$ 26 4					
-10	0.491	2008	\$2,420	\$216,680	\$245					
+	0.457	2010	\$2,253	\$201,797	\$220					
-12	0.426	2011	\$2,099	\$187,937	\$213					
-13	0.397	2012	\$1,954	\$175,028	\$198					
1 -	0.369	2013	\$1,820		\$185					
-15	0.344	2014	\$1,695	\$151,811	\$172					
-16	0.320	2015	\$1,579		\$1 80					
-17	0.298	2018	\$1,470	\$131,673	\$149					
-16	0.278	2017	\$1,369	\$122,629						
-19	0.259	2018	\$1,275	\$114,206						
-20	0.241	2019	\$1,188	\$106,362		_1				
	-	Total	\$50,730	543,132	\$5,146	. <u>.</u>				
	Average Appres	Į cie	£4,829	\$441.418	8500					
			1							

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Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

HPR-11-1397

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Lafourche Dedicated Dredging increment 3(CW-6ii)

Year Factors LONR Frequent LONR Frequent LONR Frequent Construction State (a) 50 <th>Fully F</th> <th>Fully Funded Costs</th> <th></th> <th>Total Fully Funded Costs</th> <th>ded Costs</th> <th>\$13,937,222</th> <th></th> <th></th> <th>Amortized Costs</th> <th>9</th> <th>\$1,354,163</th>	Fully F	Fully Funded Costs		Total Fully Funded Costs	ded Costs	\$13,937,222			Amortized Costs	9	\$1,354,163
Factor Fistcal Engineering Entermental Supervision & Supervision & Supervision Factor Factor Vaar & Deagen Endemental Engineering Endemental Engineering Endemental Engineering Endemental Engineering Endemental Endement						Federal	LONR				
Factor Vear & Design & Land Rights Administration & Inspection Conitrogency Construction Factor Vear & Lose Vear Land Rights Administration & Inspection Conitrogency Construction Vear		Inflation	Fiscal	Engineering	Easements	Supervision &	Supervision &	Supervision		First Cost	Total First
1,000 1897 5100,000 5250,000 50 50 50 50 50 50 5	Year	Factor	Year	& Design	& Land Rights	Administration	Administration	& Inspection		Construction	Cost
1,000 1997 5100,000 5250,000 54,919 510	5		1		2	3	2	2	3	2	9\$
1,000 1997 \$100,000 \$250,000 \$90 \$90 \$90 \$90 \$90 \$1027 1998 \$90,910 \$90 \$91,910 \$90 \$91,910 \$90 \$90,910 \$90,	~		•	8	2	2	3	3	3	2	\$
1,027 1996 \$300,100 \$40 \$4,919 \$4,91	~	1.000	1961	\$100,000	\$250,000	2	3	2	3	2	\$350,000
1055 1999 \$60 \$5.002 \$16.654 \$40 \$126.304 \$505.215 \$1.054.100 \$250.000 \$9.971 \$21,674 \$40 \$126.304 \$505.215 \$1.054.100 \$250.000 \$9.971 \$21,674 \$40 \$126.304 \$505.215 \$1.054.004 \$250.000 \$2.9871 \$21,674 \$40 \$1.054.004 \$250.000 \$2.53.90 \$4.781.417 \$2.556 \$2.002 \$2.53.90 \$4.781.417 \$2.556 \$2.002 \$2.53.90 \$2.71.902 \$2.541 \$2.90.301 \$2.540.3	7	1.027	1900	\$308,100	3	\$4,919		2	3	2	\$317,839
TOTAL \$400,100 \$250,000 \$9.971 \$21,574 \$0 \$126,304 \$506,215 Infibation Flacal Monitoring Costs	-	1.055	1990		\$	\$5,052		\$	\$126,304	\$505,215	\$653,225
Inflauton Flacal Monitoring O&M Costs Co				\$406,100	\$250,000	\$9,971	\$21,574	3	\$126,304	\$505,215	\$1,321,164
Factor Year Costs Costs <th< td=""><td></td><td>Inflation</td><td>Fiscal</td><td>Monitoring</td><td>OGM</td><td>Officer</td><td></td><td></td><td></td><td></td><td></td></th<>		Inflation	Fiscal	Monitoring	OGM	Officer					
1.063 2000 \$5,339 \$478,47 1.112 2001 \$5,481 \$490,816 1.142 2002 \$5,631 \$504,315 1.142 2003 \$5,783 \$51,802 1.205 2004 \$5,940 \$531,916 1.205 2004 \$6,900 \$546,278 1.271 2006 \$6,265 \$561,027 1.305 2007 \$6,306 \$561,732 1.317 2008 \$6,007 \$591,732 1.317 2008 \$6,007 \$591,732 1.317 2008 \$6,007 \$601,706 1.414 2010 \$6,969 \$624,117 1.452 2011 \$7,53 \$640,806 1.451 2012 \$7,549 \$670,047 1.532 2014 \$7,753 \$694,300 1.532 2014 \$7,753 \$694,304 1.559 2015 \$8,177 \$732,299 1.704 2017 \$6,306 \$773,201 <	Year	Factor	Year	Costs	Costs	Costs	!				
1.112 2001 \$5,461 \$490,616 1.142 2002 \$5,631 \$504,315 1.173 2003 \$5,783 \$517,832 1.205 2004 \$5,940 \$531,916 1.238 2005 \$6,100 \$546,278 1.238 2005 \$6,100 \$546,278 1.341 2006 \$6,265 \$561,027 1.341 2006 \$6,786 \$601,732 1.341 2010 \$6,969 \$624,117 1.452 2011 \$7,157 \$640,968 1.481 2012 \$7,549 \$676,047 1.532 2013 \$7,549 \$676,047 1.532 2014 \$7,753 \$694,300 1.573 2014 \$7,753 \$694,300 1.504 2017 \$6,386 \$552,071 1.704 2019 \$8,625 \$772,377 1.750 2018 \$8,625 \$772,377 1.750 2019 \$8,857 \$793,231 1.797 2019 \$8,857 \$793,231	-	1.083	2000	\$5,330	\$478,147	\$542	1				
1.142 2002 \$5,631 \$504,315 1.205 2003 \$5,703 \$517,932 1.205 2004 \$5,940 \$531,916 1.238 2005 \$6,100 \$546,279 1.271 2006 \$6,265 \$561,027 1.305 2007 \$6,434 \$576,175 1.341 2006 \$6,434 \$576,175 1.341 2006 \$6,786 \$607,708 1.414 2010 \$6,969 \$624,117 1.452 2011 \$7,157 \$640,968 1.491 2012 \$7,350 \$658,274 1.532 2014 \$7,753 \$694,300 1.659 2016 \$8,177 \$732,289 1.704 2017 \$6,386 \$772,377 1.750 2018 \$8,625 \$772,377 1.750 2019 \$8,625 \$772,377 1.750 2019 \$8,625 \$772,377 1.750 2019 \$8,625 \$772,377	7	1.112	2001	\$5,461	\$490,618	\$558					
1.773 2003 \$5,783 \$517,932 1.205 2004 \$5,940 \$531,916 1.238 2005 \$6,100 \$546,278 1.271 2006 \$6,265 \$561,027 1.305 2007 \$6,434 \$576,175 1.341 2006 \$6,607 \$591,732 1.377 2006 \$6,607 \$591,732 1.452 2010 \$6,969 \$624,117 1.452 2011 \$7,157 \$640,866 1.481 2012 \$7,536 \$859,274 1.532 2013 \$7,549 \$804,300 1.532 2014 \$7,753 \$694,300 1.659 2016 \$8,177 \$732,289 1.704 2017 \$6,386 \$732,289 1.750 2018 \$8,177 \$793,231 1.797 2019 \$8,857 \$793,231 1.797 \$139,163 \$12,462,778	Ġ	1.142	2002	\$5,631	\$504,315	\$571					
1.205 2004 \$5,940 \$531,916 1.236 2005 \$6,100 \$546,278 1.271 2006 \$6,265 \$561,027 1.305 2007 \$8,434 \$576,175 1.341 2006 \$6,667 \$591,732 1.377 2006 \$6,969 \$624,117 1.414 2010 \$6,969 \$624,117 1.452 2011 \$7,157 \$640,966 1.481 2012 \$7,350 \$656,274 1.532 2013 \$7,549 \$676,047 1.532 2014 \$7,753 \$694,300 1.515 2015 \$7,962 \$713,047 1.659 2016 \$8,177 \$732,299 1.704 2017 \$6,386 \$772,377 1.750 2018 \$8,625 \$772,377 1.797 2019 \$139,163 \$12,462,778	7	1.173	2003	\$5,783	\$517,932	\$587					
1.236 2005 \$6,100 \$546,278 1.271 2006 \$6,265 \$561,027 1.305 2007 \$6,434 \$576,175 1.341 2006 \$6,607 \$591,732 1.377 2006 \$6,860 \$624,117 1.414 2010 \$6,969 \$624,117 1.452 2011 \$7,157 \$640,968 1.481 2012 \$7,350 \$656,274 1.532 2013 \$7,549 \$876,047 1.532 2014 \$7,753 \$694,300 1.659 2016 \$8,177 \$732,289 1.704 2017 \$6,386 \$772,377 1.750 2018 \$8,625 \$772,377 1.797 2019 \$18,625 \$783,231 1.797 \$139,163 \$12,462,778	Ϋ́	1.205	2004	\$5,940	\$531,916	\$603					
1.271 2006 \$6,265 \$561,027 1.305 2007 \$6,434 \$516,175 1.341 2006 \$6,607 \$591,732 1.377 2006 \$6,8607 \$591,732 1.414 2010 \$6,869 \$624,117 1.452 2011 \$7,157 \$640,866 1.481 2012 \$7,350 \$656,274 1.532 2013 \$7,549 \$676,047 1.573 2014 \$7,753 \$694,300 1.659 2016 \$8,177 \$732,289 1.704 2017 \$6,386 \$773,273 1.750 2018 \$8,625 \$772,377 1.797 2019 \$8,857 \$780,2778 1.797 2019 \$139,163 \$12,462,778	4	1.238	2002		\$546,278	\$619					
1.305 2007 \$6,434 \$576,175 1.341 2008 \$6,607 \$591,732 1.377 2008 \$6,807 \$591,732 1.414 2010 \$6,969 \$624,117 1.452 2011 \$7,157 \$640,968 1.491 2012 \$7,350 \$656,274 1.532 2013 \$7,549 \$676,047 1.532 2014 \$7,753 \$694,300 1.615 2016 \$8,177 \$732,289 1.704 2016 \$8,177 \$732,289 1.704 2017 \$6,396 \$772,377 1.750 2018 \$8,625 \$772,377 1.750 2019 \$8,625 \$772,377 1.797 2019 \$8,857 \$783,231	.7	1.271	2006		\$561,027	\$635					
1.341 2006 \$6,607 \$591,732 1.377 2009 \$6,786 \$607,708 1.414 2010 \$6,869 \$624,117 1.452 2011 \$7,157 \$640,886 1.481 2012 \$7,350 \$656,274 1.532 2013 \$7,549 \$676,047 1.573 2014 \$7,753 \$694,300 1.615 2015 \$7,753 \$694,300 1.659 2016 \$8,177 \$732,289 1.704 2017 \$6,386 \$7,52,071 1.750 2018 \$8,625 \$772,377 1.797 2019 \$8,857 \$793,231 1.797 \$139,163 \$12,462,778	7	1.305	2007		\$576,175	\$653					
1.377 2000 \$6,786 \$607,708 1.414 2010 \$6,969 \$624,117 1.452 2011 \$7,157 \$640,806 1.481 2012 \$7,350 \$658,274 1.532 2013 \$7,549 \$656,047 1.573 2014 \$7,753 \$694,300 1.615 2015 \$7,962 \$713,047 1.659 2016 \$8,177 \$732,289 1.704 2017 \$6,386 \$752,071 1.750 2018 \$8,625 \$772,377 1.797 2019 \$6,386 \$783,231 1.797 2019 \$139,163 \$12,462,778	7	1.341	2008		\$591,732	\$670					
1.414 2010 \$6,969 \$624,117 1.452 2011 \$7,157 \$640,966 1.481 2012 \$7,350 \$650,274 1.532 2013 \$7,549 \$676,047 1.573 2014 \$7,753 \$694,300 1.615 2015 \$7,962 \$713,047 1.659 2016 \$8,177 \$732,289 1.704 2017 \$6,386 \$752,071 1.750 2018 \$8,625 \$772,377 1.797 2019 \$6,857 \$793,231 Total \$139,163 \$12,462,778	-10	1.377	2000		\$607,708	\$680					
1.452 2011 \$7,157 \$640,986 1.481 2012 \$7,350 \$658,274 1.532 2013 \$7,549 \$60,430 1.573 2014 \$7,753 \$694,300 1.615 2015 \$7,962 \$713,047 1.659 2016 \$8,177 \$732,289 1.704 2017 \$6,386 \$72,071 1.750 2018 \$8,625 \$772,377 1.797 2019 \$8,857 \$793,231 Total \$139,163 \$12,462,778	-	1.414	2010		\$624,117	\$707					
1.491 2012 \$7,350 \$656,274 1.532 2013 \$7,549 \$604,007 1.573 2014 \$7,753 \$694,300 1.615 2015 \$7,962 \$713,047 1.659 2016 \$8,177 \$732,289 1.704 2017 \$6,386 \$72,071 1.750 2018 \$8,625 \$772,377 1.797 2019 \$139,163 \$12,462,778	-12	1.452	2011		\$640,968	\$726					
1.532 2013 \$7,549 \$676,047 1.573 2014 \$7,753 \$694,300 1.615 2015 \$7,962 \$713,047 1.659 2016 \$8,177 \$732,289 1.704 2017 \$6,346 \$732,071 1.750 2018 \$8,625 \$772,377 1.797 2019 \$139,163 \$12,462,778	. 13		2012	5	••	\$746					
1.573 2014 \$7,753 \$694,300 1.615 2015 \$7,962 \$713,047 1.659 2016 \$8,177 \$732,289 1.704 2017 \$6,386 \$.52,071 1.750 2018 \$8,625 \$772,377 1.797 2019 \$8,857 \$783,231 Total \$139,163 \$12,462,778	-1		2013	\$	\$676,047	\$766					
1.615 2015 \$7,962 \$713,047 1.659 2016 \$8,177 \$732,289 1.704 2017 \$6,346 \$7.52,071 1.750 2018 \$8,625 \$772,377 1.797 2019 \$8,857 \$783,231 Total \$139,163 \$12,462,778	-15	_	2014	iñ	•••		_				
1.659 2016 \$8,177 \$732,289 1.704 2017 \$6,346 \$7.2,071 1.750 2018 \$8,625 \$772,377 1.797 2019 \$8,857 \$783,231 Total \$139,163 \$12,462,778	-16	ν-	2015	iă.	••	900\$	_				
1.704 2017 \$6,346 \$72,071 1.750 2018 \$8,625 \$772,377 1.797 2019 \$6,857 \$793,231 Total \$139,163 \$12,462,778	-17	`	2016	æ		••	_				
1.750 2018 \$8,625 \$772,377 1.797 2019 \$8,857 \$783,231 Total \$139,163 \$12,462,778	-18	•	7102	潘 ,		202 2			•	,	
1.797 2019 \$6,857 \$783,231 Total \$139,163 \$12,462,778	-19	•	2018	*		\$875					
\$139,163 \$12,462,778	-20	_	2019	•		368\$					
		•	Total	\$139,163	\$12,462,778						

Coastal Wetlands Conservation and Restoration Plan Protect List VI

Lafourche Dedicated Dredging Increment 4(CW-8lv) Two-Eight Inch Aquamog SRX-109 (Two Dredges)

Project Construction Years:	6	Total Project Years	53
Interest Rate	7.38%	Amoritzation Factor	0.0971616
Total First Costs	\$1,644,800	Total Fully Funded Costs	\$15,547,700

Costs amortized over 20 year operation life

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

Latourcho Dedicated Dredging Increment 4(CW-6IV)

2
Charge
Armed
2
Costs
First

					Federal	LDNR				
		Fiscal	Engineering	Essements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Year		Year	& Design	& Land Rights	Administration Administration & Inspection	Administration	& Inspection	Contingency	Construction	Cost
3	Compound		3	3	25	3	3	3	0.5	0 \$
პ	Compound		2	3.	2	2	2	\$	2	3
3	Compound	1907	\$100,000	\$250,000	2	\$	3	3	2	\$350,000
ა გ	Compound	1800	\$463,600	2	\$5,834	\$5,934	3	\$	2	\$475,468
<u>ح</u>	Compound	1990	3	3	\$5,834	\$16,934	\$	\$148,350	\$583,400	\$764,818
æ	Base Year			İ						
		TOTAL	\$563,600	Acor, until	\$11,868	\$22,868	\$	\$148,350	\$583,400	\$1,590,086
		Fleca	Monttoring	OEM	Other					
Year		Year	Costs	Costs	Costs					
-	Discount	2000	£4,929	\$486,999	\$200					
7	Discount	2001	\$4 ,929	\$486,999	\$200					
Ö	Discount	2002	\$4,929	\$486,999	\$200					
4	Discount	2003	\$4,929	\$486,989	\$200					
5 D	Discount	2004	\$4,929	\$486,999	\$200					
9	Discount	2005	\$4,929	\$486,999	\$200					
0 /	Discount	2006	£4,929	\$486,999	\$200					
0	Discount	2007	11 ,929	\$486,989	\$200					
0	Discount	. 5008	\$4,929	\$486,989	\$200					
5	Discount	2009	\$4,929	\$486,999	\$200					
=	Discount	2010	•		\$200					
12 D	Discount	2011	•	\$486,999	\$200					
13 0	Discount	2012	\$4,929	\$4 86,999	\$200					
7	Discount	2013		\$486,999	\$200					
15 D	Discount	2014	54 ,929	\$486,999	\$200					
16	Discount	2015		\$486,999	\$200					
1 C	Discount	2019	\$7,878	£486,999	\$200	•			•	
18 C	Discount	2017	\$4,829	\$486,990	\$200					
19	Discount	2018	••	\$486,999	\$200					
30 C	Discount	2019								
	•	Total	\$98,580	\$9,739,880	\$10,000	1				

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Coastal Wellands Conservation and Restoration Plan 'Priority Project List VI

Lafourche Dedicated Dredging Increment 4(CW-8lv)

5	Present Valued Costs		Total Discounted Costs	ed Costs	\$6,870,617			Amortized Costs	22	000'/004
					Federal	LDNR				
	Compound	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	upervision		First Cost	Total First
Year	Rates	Year	4. Design	& Land Rights	Administration	Administration Administration & Inspection	Inspection	Contingency	Construction	Çost
2	1.427	0	3	2	0\$	0\$	0\$	%	\$	3
→	1 329	•	3	%	3	3	9	%	\$	3
ب .	1 238	1997	\$123,797	\$309,492	2	3	3	9	%	\$433,289
•	1 153	1998	\$534,503	3	\$6.842	\$6,842	<u>\$</u>	2	3	\$548,186
4	1.074	1999	S	3	\$6,372	•	\$	\$159,291	\$637,163	\$821,009
•	1	Total	\$658,299	\$309,492	\$13,213	\$25,024	0\$	\$159,291	\$637,163	\$1,802,483
	Discount	Flecal	Monitorina	OGM	Other					
Year		Year	Costs	Costs	Costs					
7		2000	\$4,590	\$453,550	\$466					
. 7	0.867	2001	\$4,275	\$422,398	\$434					
7	0.808	2002	\$3,982	\$383,386	707					
1	0.752	2003	\$3,708	\$366,366	\$376					
ç	0.701	2007	\$3,453	\$341,202	\$350					
φ	0.653	2005	\$3,216	\$317,767	\$328					
-7	0.608	2006	\$2,995		30%					
40	0.568	2007	\$2,790		\$283					
Ġ	0.527	2008	\$2,598	\$256,684	\$28					
9		2009	\$2,420	\$239,054	\$245					
7		2010	\$2,253	\$222,635	\$228					
-12		2011	\$2,099	\$207,343	\$213					
-13	0.397	2012	\$1,954	\$193,102	\$198					
4	0.368	2013	•	\$179,839	•	_				
-15	0.344	2014	-		\$172					
-16	3 0.320	2015	•	\$155,983	\$160	_				
-17		2016	\$1,470	\$145,269						
\$		2017		\$135,292			•	•		
.19		2018	\$1,275	\$125,999						
-50		2019		ı						
l		Total	\$50,730	\$5,012,258	\$5,146	·				
	Average Approp	Į.	626	5486.999	\$500	•				

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

Lafourche Dedicated Dredging Increment 4(CW-6iv)

. A.	rully runded Costs		Total I way I wanted costs							
					Federal	LONR				
	Inflation	Fiscal	Engineering	Easements	Supervision &		Supervision		First Cost	Total First
Year	Factor	Year	4. Design	& Land Rights	Administration	Administra	& Inspection	Condingency	Construction	Cost
2		0	3	3	2	2	2	3	\$	0\$
4		•	3	\$	3	2	3	2	\$	\$
n	1.000	1997	\$100,000	\$250,000	2	3	3	2	3	\$350,000
~	1.027	1996	\$476,117	2	\$6.09	\$6,094	3	3	2	\$488,306
-	1.055	1000	9	3	\$6,259	\$17,861	3	\$156,469	\$625,876	\$806,465
		TOTAL	\$576,117	\$250,000	\$12,353	\$23,955	\$	\$156,469	\$625,876	\$1,644,770
	Inflation	Fiscal	Monteoring	W9 0	Other					
Year	Factor	Year	Costs	Costs	Costs					
7	1.083	2000	\$5,339	\$527,521	\$542					
?	1.112	2001	\$5,481	\$541,500	\$556					
7	1.142	2002	\$5,631	\$556,391	\$571			ě		
4	1.173	2003	\$5,783	\$571,414	\$587					
κĊ	1.205	2007	\$5,940	\$586,842	\$603					
φ	1.236	2005	\$6,100	\$602,687	\$619					
	1.271	2006	\$6,265	\$618,959	\$635					
9	1.305	2007	\$6,434	\$835,671	\$653					
æ	1.341	2008	\$6,607	\$652,634	\$870					
-10	1.377	2009	\$6,786	\$670,461	889\$					
7	1.414	2010	\$6,969	\$686,563	\$707					
-12	1.452	2011	\$7,157	\$707,164	\$728					
-13	1.491	2012	\$7,350	\$726,247	\$748					
-	1.532	2013	\$7,549	\$745,856	\$766					
-15	1.573	2014	\$7,753	\$765,994	\$786					
-16	1.615	2015	\$7,962	\$786,678	\$808					
-17	1.659	2016	\$8,177	\$807,916	\$829	_				
-18	1.704	2017	\$6,358	\$629,730	7¢9 \$					
-19	1.750	2018	\$8,625	\$852,133	\$875					
-20	1.797	2019	\$8,857	\$875,140	- 668\$	<u>.</u>				
	•					1				

	Latourche Dedicated Unerging increment s(CW-4v) One-Eight firch Aquamog SRX-109 (24 Hour Dredging)	Latourche Dedicated Uneaging increment s(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

Armed Charges	Present	Average
Interest & Amortization	\$1,317,000	\$128,000
Monttoding	\$50,700	1 ,800
O & M Costs	\$4 ,036,200	. \$382,200
Ofher Costs	\$5,100	\$500
Total	\$5,409,800	\$525,600
Average Armual Habitat Units		301
Cost Per Habitat Unit		\$1,746
Average Armal Acres of Emergent Marsh		202

Coastal Wellands Conservation and Restoration Plan Priority Project List VI

Lafourche Dedicated Dredging Increment S(CW-bv)

First Costs and Ameusi Charges

					Federal	LDNR				
Year		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Engineering A Dealon	A I and Dinter	Supervision &	Supervision & Supervision & Supervision	Supervision		First Cost	Total First
S	Compound		5	2	None and a supply	Acceptante Administration & Inspection	4 Inspection	Contingency	Construction	200
•	Comment		3 3		2	2	3	S	5	1
•			3	3	3	3	Ş	\$ \$	3 3	3
· C-	Compound	18 0	\$100,000	\$250,000	3	3	3 \$	3 ;	3	♀
~	Compound	3	\$358,000	5	41213		3	3	3	\$350,000
-	Composand	9	\$	3 3	15.50		2	3	3	\$364.614
	Base Year		3	3	75.53	\$14,317	2	\$82,925	\$331,700	¥32,259
		TOTAL	\$458,000	\$250,000	\$6.634	\$17,634	2	\$62.925	£331 700	C1 146 pos
		Fiscal	Monitodan	2	į					
Year		X	Contract	3 8						
-	Discount	2000	24 020	200 tak	303					
7	Discount	1000								
. "		3 6	27.7	¥382,165	200					
,		2002	44.920	\$382,165	2500					
•		2003	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	\$302,165	\$500					
n	Discount	5 000	\$4,929	\$302,165	8500					
•	Discount	2002	\$4,929	\$302,165	8500					
7	Discount	2006	\$4,929	\$392,165	250					
•	Discount	2007	\$4,929	\$392,165	3					
3	Discount	2008	\$4.929	\$302.165						
2	Discount	2006	\$7,820	\$392.185	3 5					
Ξ	Discount	2010	57,9 29	\$302,165						
7	Discount	2011	\$4,929	\$302 165	3 5					
t	Discount	2012	\$4,929	\$302,165	3					
I	Discount	2013	\$4.929	\$302 185						
5	Discount	2014	200	\$300 185	3 3					
5	Discount	2015	27.829	2382 165						
11	Discount	2016	\$4.929	£302 165	3 5					
2	Discount	2017	£ 829	\$302,165						
2	Discount	2018	\$4,929	\$392 185						
8	Discount		\$4,929	\$302,165						
		Total	\$96,580	\$7,843,300	\$10,000					

Coastal Wettands Conservation and Restoration Plan Priority Project List VI

Lafourche Dedicated Dredging Increment 5(CW-6v)

∀ 68					,					
.					Federal	LDNR				
	Compound Rates	Flecal Year	Engin eeding & Design	Easements & Land Rights	Supervision & Administration	Supervision & Supervision Administration & Inspection	Supervision & Supervision Administration & Inspection	Confingency	First Cost Construction	Total First Cost
5	1.427	0	3	2	S	9	2	9	0\$	0\$
4	1.329	0	3	2	3	%	3	2	2	0\$
6	1.238	1997	\$123,797	\$309,492	\$	\$0	3	2	%	\$433,289
8	1.153	1996	\$412,752	3	\$3,824	\$3,824		3	3	\$420,401
-	1.074	1999	3	3	\$3,562	\$15,373	\$	\$89,041	\$356,163	\$464,138
	F	Total	\$536,549	\$309,492	\$7,386	\$19,197	3	\$89,041	\$356,163	\$1,317,828
	Discount	Fiscal	Monttodad	N80	Other					
Year		Year	Costs	Costs	Costs					
		2000	\$4,590	\$365,229	\$466					
?	0.867	2001	\$4,275	\$340,144	\$434					
ů	0.808	2002	\$3,982	\$316,781	\$404					
7	0.752	2003	\$3,708	\$295,023	\$376					
φ	0.701	2004	\$3,453	\$274,760	\$320					
φ	0.653	2002	\$3,216	\$255,888	\$326					
-	0.606	2008	\$2,995	\$238,312	\$30					
9	0.566	2007	\$2,790	\$221,944	\$283					
ģ	0.527	2008	\$2,598	\$206,700	\$264					
9	0.491	2009	\$2,420	\$192,503	\$245					
÷	0.457	2010	\$2,253	\$179,281	\$228					
-12	0.426	2011	\$2,089	\$166,967	\$213					
-13	0.397	2012	\$1,954	\$155,499	\$198					
7	0.369	2013	\$1,820	\$144,819	\$185					
-15	0.344	2014	\$1,695	\$134,872	\$172					
-18	0.320	2015	\$1,579	\$125,608	\$160					
1.	0.29A	2018	\$1,470	\$116,981	\$1 4 9					
-18	0.278	2017	\$1,369	\$108,946	\$138					
-19	0.259	2018	\$1,275	\$101,463	\$129					
-50	0.241	2019	\$1,188	\$94,494	\$120					
	-	Total	\$50,730	\$4,036,214	\$5,148	I.				
	August And	J C.	64 020	4302 186	\$ 500	-				
	Average Aunua	100	C-10, D.C.							

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Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

Lafourche Dedicated Dredging Increment 5(CW-6v)

	man name i den i			the contract of the contract o					•	
					Federal	LONR				
;	Inflation	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
100	r actor	182	A Design	& Land Kights	Administration	Administration & Inspection	a inspection	CONTINUENCY	Construction	Sest
n		9	3	3	3	3	3	2	3	2
4		•	2	3	2	2	2	2	\$	\$
က	1.000	1997	\$100,000	\$250,000	2	3	<u>\$</u>	3	\$	\$350,000
8	1.027	1998	\$387,666	2	\$3,407	\$3,407	2	\$	%	\$374,479
-	1.055	1990	3	2	£3,499	\$15,101	\$	\$87,463	\$349,854	\$455,916
		TOTAL	\$467,868	\$250,000	\$6,905	\$18,507	%	\$87,463	\$349,854	\$1,180,395
	Inflation	Fisce	Monitoring	OGIN	Other					
Year	Factor	Year	Costs	Coets	Costs					
-	1.083	2000	\$5,339	\$424,796	\$542					
7	1.112	2001	\$5,481	\$438,053	\$558					
ņ	1.142	2002	\$5,631	\$448,044	\$571					
7	1.173	2003	\$5,783	\$460,141	\$587					
လု	1.205	2004	\$5,940	\$472,565	\$603					
4	1.238	2002	\$6,100	\$485,325	\$619					
-1	1.271	2006	\$6,265	\$498,428	\$635					
9	1.305	2002	\$6,434	\$511,886	\$653					
Ф	1.341	2008	\$6,607	\$525,707	\$670	٠				
-10	1.377	2008	\$6,786	\$539,901	\$69\$					
-	1,414	2010	\$6,969	\$554,478	\$707					
-12	1.452	2011	\$7,157	\$569,449	\$726					
-13	1.491	2012	\$7,350	\$584,524	\$746					
-	1.532	2013	\$7,549	\$600,615	\$166					
-15	1.573	2014	\$7,753	\$616,831	\$786					
-16	1.615	2015	\$7,962	\$633,486	\$908					
11	1.055 0.25	2016	\$8,177	\$450,590	\$429			1		
-18	1.704	2017	\$8,398	\$668,156	\$827					
-19	1.750	2018	\$8,625	\$686,196	\$875					
-20	1.797	2019	\$8,857	\$704,723	689\$					
	•									

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

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

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

Average	\$497,900 \$2,400 \$7,600 \$500	\$508,400	128	\$3,972	114
Present Worth	\$5,124,800 \$25,200 \$78,300 \$5,100	\$5,233,400			
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

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Costs amortized over twenty years

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

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

First Costs and Annual Charges

First Cost Total First	Construction Cost	0\$ 0\$	\$60,000	\$0 \$181,111	\$2,586,667 \$3,526,278	\$517,333 \$678,611			
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| | Contingency | \$ | 3 | 3 | \$646,667 | \$129,333 | • | 6776 000 | 990 |
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| Supervision | & Inspection | 9 | \$ | 9 | \$45,833 | S 9 167 | • | 655,000 | 000°CC |
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| Supervision & | Administration | 2 | \$ | \$21,111 | \$50,667 | \$14 222 | | 000 303 | 000°09 ♦ |
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 | | | |
| Supervision & | Administration | 05 | 9 | \$42 778 | \$102 667 | 48 556 | 2 | 000 | \$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 | | 1 | \$50,000 | 9 | 3 | \$ 5 | • | 000 | 000'09\$ | O8M
 | Costs | % | \$ | 9 | 9 | \$75,000 | %
 | 9 | \$ | 9 | \$ | %
 | \$ | \$
 | \$ | \$75,000
 | \$ | \$ | \$
 | \$ | 0\$ | \$150,000 |
| Enaineering | | 0 | \$30,000 | 4447 222 | 401 778 | | • | | \$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 | \$2,461 | \$2,451
 | \$2,451 | \$2,451 | \$49,020 |
| Fiscal | Year | | 1001 | 500 | 9661 | 6661 | 2007 | | TOTAL | Fiscal
 | Year | 2001 | 2002 | 2003 | 2004 | 2005 | 2006
 | 2007 | 2008 | 2009 | 2010 | 2011
 | 2012 | 2013
 | 2014 | 2015
 | 2016 | 2017 | 2018
 | 2019 | 2020 | Total |
| | 7007 | | | | | | 1 Compound | Base Year | i |
 | Year | 1- | 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 | _
 | | |
 | _ | | |
| | Engineering Easements Supervision & Supervision | Fiscal Engineering Easements Supervision & Supervision & Supervision Year & Design & Land Rights Administration Administration & Inspection Contingency Construction Cost | Fiscal Engineering Easements Supervision & Supervision & Supervision First Cost Total Vear & Design & Land Rights Administration Administration & Inspection Contingency Construction Continued Society Societ | Fiscal Engineering Easements Supervision & Supervision & Supervision & First Cost Total Fir | Fiscal Engineering Easements Supervision & Supervision & Supervision & Supervision Supervision First Cost Total First Cost Year & Design & Land Rights Administration Administration & Inspection Construction Cost Compound 1997 \$30,000 \$50,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$10.0 | Fiscal Engineering Easements Supervision & Supervision & Supervision & Supervision Supervision & Supervision Supervision First Cost Total First Cost Compound Year & Design & Land Rights Administration Administration & Inspection Construction Cost Compound 1997 \$30,000 \$50,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$117,222 \$0 \$42,778 \$21,111 \$0 \$45,66,667 \$13,526,2 \$0 \$181,1 \$2,586,667 \$3,526,2 | Fiscal Engineering Easements Supervision & Supervision & Supervision & Supervision & Supervision & Institution Supervision & Supervision & Institution First Cost Total First Cost Compound 1997 \$30,000 \$50,000 \$0 | Fiscal Engineering Compound Easements Supervision & Supervision & Supervision & Supervision Supervision & Supervision Supervision First Cost Compound Year & Design & Land Rights Administration & Supervision Sometric Construction Compound 1997 \$30,000 \$50,000 \$42,778 \$21,111 \$0 \$0 \$0 Compound 1998 \$117,222 \$0 \$102,667 \$50,667 \$45,833 \$646,667 \$2,586,667 Compound 2000 \$0 \$0 \$8,556 \$14,222 \$9,167 \$129,333 \$517,333 | Fiscal Engineering Easements Supervision & Supervision & Supervision Supervision & Supervision Supervision First Cost Compound Year & Design & Land Rights Administration & Supervision Son Son Son Son Son Son Son Son Son Son | Fiscal Engineering Easements Supervision & Supervision & Supervision & Supervision Supervision & Supervision & Supervision Supervision & Supervision First Cost Total First Cost Year & Design & Land Rights Administration Administration & Inspection Confidency Construction Cost Compound 1997 \$30,000 \$50,000 \$0
\$0 \$0 \$0 \$0 | Fiscal Engineering Easements Supervision & Supervision & Supervision & Supervision Supervision & Supervision Supervision & Supervision First Cost Compound Year & Design & Land Rights Administration Administration & Supervision Sometric construction Compound 1997 \$30,000 \$50,000 \$42,778 \$21,111 \$0 \$0 \$0 Compound 1998 \$117,222 \$0 \$42,778 \$21,111 \$0 \$0 \$0 Compound 1999 \$93,778 \$0 \$102,667 \$50,667 \$45,833 \$646,667 \$2,586,667 Compound 2000 \$0 \$0 \$8,556 \$14,222 \$9,167 \$129,333 \$517,333 Base Year TOTAL \$241,000 \$154,000 \$154,000 \$86,000 \$55,000 \$3,104,000 Fiscal Monitoring O&M Other Other Other Other Other Other \$10,000 \$10,000 \$10,000 \$10,000 \$10,000 | Fiscal Engineering Easements Supervision & Supervision & Supervision Supervision & Supervision Supervision & Supervision First Cost Compound \$6 \$0 | Fiscal Engineering by Easements Supervision & Supervision | Fiscal Engineering Easements Supervision & Supervision & Supervision & Supervision & Supervision & Supervision & Institution Supervision & Supervision & Supervision & Supervision & Institution First Cost Compound \$0 | Fiscal Engineering Easements Supervision & Supervision | Fiscal Engineering tomatical compound Easements of the proposition of | Fiscal Engineering Lost Easements Supervision & Supervision & Supervision & Supervision & Supervision & Supervision &
Supervision & Supervisi | Fiscal Engineering Easements Supervision & Supervision | Fiscal Engineering Easements Supervision & Supervision | Fiscal Engineering Easements Supervision & Supervision & Supervision & Supervision & Supervision & Supervision & Inspection Contingency First Cost Compound 1987 \$10 \$0< | Fiscal Engineering Easements Supervision & Supervision | Fiscal Engineering Easements Supervision & Supervision & Supervision & Supervision First Cost Compound 1997 \$10 \$0
 \$0 \$0 | Fiscal Engineering Easements Supervision & Supervision First Cost Year & Design & Land Rights Administration Administration First Cost Compound 1994 \$10,000 \$50,000 \$6 \$0 \$0 \$0 Compound 1996 \$117,222 \$0 \$42,778 \$21,111 \$0 \$0 \$0 Compound 1999 \$31,778 \$0 \$102,667 \$50,000 \$10 \$0 | Compound Fiscal Engineering Easements Supervision & Supervision & Supervision & Supervision & Inspection First Cost Compound 1987 \$0 <t< th=""><th>Fiscal Engineering Easements Supervision & Supervision</th><th>Fiscal Engineering Easements Supervision & Supervision A Supervision First Cost Compound Year & Design & Land Rights Administration 40 \$0</th></t<> <th>Fiscal Engineering Easements Supervision & Supervision First Cost Oompound Year & Design & Land Rights Administration Adm</th> <th>Fiscal Engineering Easements Supervision & Supervision</th> <th>Fiscal Engineering Easements Supervision & Supervision & Supervision & First Cost Vear & Design 41 and Rights Administration & Inspection First Cost Compound 1997 \$30,000 \$50,000 \$0
\$0 \$0<th>Fiscal Engineering Easements Supervision & Supervision & Supervision & Fiscal Confinencial First Cost Vear & Design 41 and Rights Administration Administration & Inspection First Cost Compound 1987 \$30,000 \$50,000 \$60,000<</th><th>Fiscal Engineering Easements Easements Supervision & S</th><th>Fiscal Engineering Easements Supervision & Supervision & Supervision & Fiscal Confundation First Constitution Year & Design 6. Land Rights Administration Administration of Inspection First Confundation Compound 1997 \$50,000</th></th> | Fiscal Engineering Easements Supervision & Supervision | Fiscal Engineering Easements Supervision & Supervision A Supervision First Cost Compound Year & Design & Land Rights Administration 40 \$0 | Fiscal Engineering Easements Supervision & Supervision First Cost Oompound Year & Design & Land Rights Administration Adm | Fiscal Engineering Easements Supervision &
Supervision & Supervision | Fiscal Engineering Easements Supervision & Supervision & Supervision & First Cost Vear & Design 41 and Rights Administration & Inspection First Cost Compound 1997 \$30,000 \$50,000 \$0 <th>Fiscal Engineering Easements Supervision & Supervision & Supervision & Fiscal Confinencial First Cost Vear & Design 41 and Rights Administration Administration & Inspection First Cost Compound 1987 \$30,000 \$50,000 \$60,000<</th> <th>Fiscal Engineering Easements Easements Supervision & S</th> <th>Fiscal Engineering Easements Supervision & Supervision & Supervision & Fiscal Confundation First Constitution Year & Design 6. Land Rights Administration Administration of Inspection First Confundation Compound 1997 \$50,000</th> | Fiscal Engineering Easements Supervision & Supervision & Supervision & Fiscal Confinencial First Cost Vear & Design 41 and Rights Administration Administration & Inspection First Cost Compound 1987 \$30,000 \$50,000 \$60,000< | Fiscal Engineering Easements Easements Supervision &
Supervision & S | Fiscal Engineering Easements Supervision & Supervision & Supervision & Fiscal Confundation First Constitution Year & Design 6. Land Rights Administration Administration of Inspection First Confundation Compound 1997 \$50,000 |

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

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

Prese	Present Valued Costs		Total Discount of Cata	, p. c.			•			
				eu costs	\$5,233,506			Amortized Costs	হ	\$508,496
		i			Federal	LDNR				
Year	Compound	Fiscal Year	Engineering & Design	Easements	Supervision &	Supervision & Supervision	pervision		First Cost	Total First
5	1 427		Incom a	a Lariu Rignis	Administration	Administration & Inspection	Inspection	Contingency	Construction	Cost
•	000	9 1		2	S S	S	9	9	5	
•	1.329	1887	\$39,878	\$66,463	S	05	5	•		
7	1.238	1998	\$145,117	20	\$52 958	\$26 135			0.	\$106,341
2	1.153	1999	\$108,120	. 5	£118 369	650,133	00	04	2 0	\$224,210
-	1.074	2000	S	\$ \$	000,011	\$28,416	\$52,843	\$745,567	\$2,982,269	\$4,065,583
	T	Total	- 1 3		101.64	1/2,014	\$ 9.843	\$138,872	\$555,487	\$728 659
	2		\$293,116	\$66,463	\$180,512	\$99,822	\$62,686	\$884,439	\$3,537,756	\$5,124,793
	Discount	Fiscal	Monitoring	O&M	Olber					
Year	Rates	Year	Costs	Costs	stao C					
-	0.931	2001	£2 283	2000	COSIS					
-5	0.867	2002	£2 426		4400					
6	9080	7000	94,120	2	2434					
? •	0.000	2003	\$1,980	S	\$404					
4	0.752	2004	\$1,844	9	\$376					
-5	0.701	2002	\$1,717	\$52,547	\$350					
9-	0.653	2006	\$1,599	0\$	9613					
-7	0.608	2007	\$1,489	5	6304					
8-	0.566	2008	\$1 387	\$	10C					
. 6 -	0.527	2009	\$1 292		\$203					
-10	0.491	2010	\$1.203		\$207¢					
-11	0.457	2011	4 4 200	2	\$245					
:13	0.426	2043	91,120	<u> </u>	\$229					
1 5	205.0	2012	\$1,044	9	\$213					
<u>.</u>	0.397	2013	\$972	\$	\$198					
1	0.309	2014	\$ 302	9	\$185					
-15	0.344	2015	\$843	\$25,794	\$172					
-16	0.320	2016	\$785	05	\$160					
-17	0.298	2017	\$731	9	\$149					
-18	0.278	2018	\$681	\$	6130					
-19	0.259	2019	\$634	; ;	130					
-20	0.241	2020	6 591	3 6	6716					
			1600	O¢.	\$120					
	lola		\$25,226	\$78,340	\$5,146					
∢	Average Annual		\$2.451	67.613	903					
)			710'14	nnce					

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

			•							
					Federal	LDNR				
	Inflation	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Year	Factor	Year	& Design	& Land Rights	Administration	Administration Administration & Inspection	& Inspection	Conlinger	Construction	Cost
2		0	\$	0\$	\$	%	\$	\$	\$	O \$
4	1 000	1997	\$30,000	\$50,000	\$	0\$	\$	\$	0\$	\$80,000
بے .	1 027	1998	\$120,387	90	\$43,933	\$21,681	S	\$	S	\$186,001
2	1.055	1999	\$98,910	0\$	\$108,286	\$53,440	\$48,342	\$682,058	\$2,728,232	\$3,719,267
, , -	1.083	2000	9	\$	\$9,267	\$15,406	\$9,929	\$140,095	\$560,379	\$735,076
	1	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					
?	1.142	2002	\$2,800	%	\$571					
ç	1.173	2003	\$2,876	\$	\$587					
4	1.205	2004	\$2,953	\$	\$603					
ç	1.238	2005	\$3,033	\$92,816	\$619					
9	1.271	2006	\$3,115	9	\$635					
-1	1.305	2007	\$3,199	\$	\$653					
æ	1.341	2008	\$3,286	9	\$670					
6	1.377	2009	\$3,374	9	\$688					
-10	1.414	2010	\$3,465	\$	\$707					
=	1.452	2011	\$3,559	\$	\$726					
-12	1.491	2012	\$3,655	\$ 0	\$746					
-13	1.532	2013	\$3,754	\$ 0	\$166					
-14	1.573	2014	\$3,855	\$	\$186					
-15	1.615	2015	\$3,959	\$121,152	\$808					
-16	1.659	2016	\$4,066	\$0	\$859					
-17	1.704	2017	\$4,176	\$0	\$852					
-18	1.750	2018	\$4,289	20\$	\$875					
-19	1.797	2019	\$4.404	\$0	\$899					
-20	1.846	2020	\$4,523	\$	\$923					
						1				

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

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

Desired Construction Veges	€		
ect Constituction rears.	ഹ	Total Project Years	25
nterest Rate	7.38%	Amoritization Factor	0.0971616
Fotal First Costs	\$42,312,000	Total Fully Funded Costs	\$42,473,600

Annual Charges	Worth	Annual
Interest & Amortization Monitoring O & M Costs	\$45,443,300 \$50,700 \$0	\$4,415,300 \$4,900
Other Costs	\$5,100	\$200
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

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Costs amortized over 20 year operation life

Coastal Wetlands 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

Engineering Easements & Design & Land Rights \$97 \$35,000 \$34,000 88 \$428,462 \$0 80 \$128,538 \$0 80 \$128,538 \$0 80 \$128,538 \$0 80 \$128,538 \$0 80 \$128,538 \$0 80 \$128,538 \$0 80 \$128,538 \$0 80 \$128,538 \$0 80 \$128,538 \$0 80 \$128,538 \$0 80 \$128,929 \$1 8	# Design # Design # S35,000 # \$35,000 # \$128,538 # \$0 \$0 \$0 \$ \$128,538 # \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	Cal 1998 1998 1999 2000 2001 2001 2002 2003 2009 2001 2011 2011 2011 2011 2011 2011
	0 01

Costs amortized over 20 year operation life

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

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

Prese	Present Valued Costs	sts	Total Discounted Costs	ed Costs	\$45,499,160			Amortized Costs	s	\$4,420,771
					Federal	LDNR				
:	ರ	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	upervision		First Cost	Total First
Year	Rai	Year	& Design	& Land Rights	Administration	Administration Administration & Inspection	Inspection	Contingency	Construction	Cost
5	1.427	1997	\$49,956	\$48,528	0\$	05	\$0	95	5	408 ABA
4	_	1998	\$569,540	\$	\$814,968	\$163.006	Ş	\$ 5	9	430,404
9	1.238	1999	\$159,127	S	\$910 791		£1 138 577	43 777 164	00 100 613	010,747,010
2	_	2000	9	9	CRAB 23A		1 500 560	42,211,134	110,001,64	\$13,770,438
-	_	2001	3	3 3	\$526 649		200,080,14	\$3,181,124 €1,975,086	\$12,724,494	\$18,514,073
	 -	Total	\$778,623	\$48,528	\$3,100,642	-	\$3,716,682	\$7,433,364	\$29,733,457	\$45,443,284
	Discount	Fiscal	Monitoring	0 8 M	Other					
Year	_	Year	Costs	Costs	Costs					
-	0.931	2002	\$4,590	20	\$466					
-5	0.867	2003	\$4,275	. S	\$434					
. .	0.808	2004	\$3,982	. S	\$404					
4	0.752	2005	\$3,708	. S	\$376					
-5	0.701	2006	\$3,453	\$0	\$350					
9-		2007	\$3,216	0\$	\$326					
-7	0.608	2008	\$2,995	9	\$304					
8-	0.566	2009	\$2,790	9	\$283					
6-	0.527	2010	\$2,598	%	\$264					
-10	0.491	2011	\$2,420	\$ 0	\$245					
-1	0.457	2012	\$2,253	%	\$229					
-12	0.426	2013	\$2,099	\$	\$213					
-13	0.397	2014	\$1,954	\$ 0	\$198					
-14	0.369	2015	\$1,820	\$0	\$185					
-15	0.344	2016	\$1,695	20	\$172					
-16	0.320	2017	\$1,579	9	\$160					
-17	0.298	2018	\$1,470	\$	\$149					
-18	0.278	2019	\$1,369	\$	\$139					
-19	0.259	2020	\$1,275	0 \$	\$129					
-20	0.241	2021	\$1,188	\$0	\$120					
	Tc	Total	\$50,730	\$	\$5,146					
	Average Annual	ন	\$4,929	0\$	\$500					

3/14/97

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)

	ereco passin i dun i		lotal Fully Fun	rully runded Costs	\$42,473,623			Amortized Costs	S	\$4,126,805
					Federal	LDNR				
	Inflation	Fiscal	Engineering	Easements	Supervision &	Supervision &	Supervision		First Cost	Total First
Year	Factor	Year	& Design	& Land Rights	Administration	Administration & Inspection	& Inspection	Contingency	Construction	Cost
2	1.000	1997	\$35,000	\$34,000	0\$	0\$	90	\$0	9	000 693
4	1.027	1998	\$440,030	\$0	\$629,649	\$125,940	20	. .	9	\$1 195 618
3	1.055	1999	\$135,573	\$0	\$775,979	\$155,208	\$970,049	\$1,940,099	\$7 76 0 395	\$11,737,303
7	1.083	2000	9	\$0	\$796,931	\$159,399	\$1,494,361	\$2,988,722	\$11.954.888	\$17.394.300
-	1.112	2001	9	0\$	\$545,366	\$121,313	\$1,022,641	\$2,045,282	\$8,181,128	\$11,915,730
	-	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	O&M	Other					
Year	Factor	Year	Costs	Costs	Costs					
-	1.142	2002	\$5,631	0\$	\$571					
-,	1.173	2003	\$5,783	9	\$587					
6	1.205	2004	\$5,940	9	\$603					
4	1.238	2005	\$6,100	S	\$619					
٠,	1.271	2006	\$6,265	9	\$635					
မှ	1.305	2007	\$6,434	9	\$653					
<u>~</u>	1.341	2008	\$6,607	%	\$670					
8-	1.377	2009	\$6,786	\$ 0	\$688					
6.	1.414	2010	\$6,969	%	\$707					
-10	1.452	2011	\$7,157	9	\$726					
-	1.491	2012	\$7,350	9	\$746					
-15	1.532	2013	\$7,549	%	\$766					
-13	1.573	2014	\$7,753	\$	\$786					
-14	1.615	2015	\$7,962	%	\$808					
-15	1.659	2016	\$8,177	%	\$829					
-16	1.704	2017	\$8,398	%	\$852					
-17	1.750	2018	\$8,625	\$	\$875					
-18	1.797	2019	\$8,857	0\$	\$899					
-19	1.846	2020	260'6\$	\$	\$923					
-20	1.895	2021	\$9,342	\$	\$948					
	T	Total	C146 782	•	614 000					

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

2

Marsh Creation Using Dredge Materials East of the Atchafalya River at Avoca Island Inc.

23	0.0971616	\$6,438,400	
 Total Project Years	Amoritization Factor	Total Fully Funded Costs	
3	7.38%	\$6,285,200	
Project Construction Years:	Interest Rate	Total First Costs	

Average	\$658,000 34,900 30 3500	\$663,400	355	\$1,869	430
Annual Charges Worth	Interest & Amortization \$6,771,800 Monitoring \$50,700 O & M Costs \$0 Other Costs \$5,100	Total \$6,827,600	Average Annual Habitat Units	Cost Per Habitat Unit	Average Annual Acres of Emergent Marsh

Coastal Wetlands 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)

First Costs and Annual Charges

	Supervision First Cost Total First	Contingency Construction		\$	0.69\$	\$471,875 \$1,887,500 \$3	\$471,875 \$1,887,500		\$472,000 \$943,750 \$3,775,000 \$6,050,250																						
LDNR	Supervision & Supervision	Administration	0 \$	9	9	\$68,636	\$17,864		\$86,500																						
Federal	Supervision &	Administration Administration & Inspection	0\$	3	%	\$343,636	\$34,364	000 0204	\$378,000	Other	Costs	\$200	\$200	\$500	\$500	\$500	\$500	\$200	\$200	\$200	\$200	\$200	\$200	\$500	\$200	\$200	\$500	\$500	\$200	\$500	\$200
	Easements	& Land Rights	%	%	\$46,000	9	9	000 014	\$46,000	08M	Costs	%	%	%	%	9	\$	%	\$	%	%	%	\$	%	\$	S	0\$	%	0\$	\$0	0 \$
	Engineering	& Design	3	\$	\$23,000	\$326,000	%	000 000	\$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
	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
		ĺ	Compound	Compound	Compound	Compound	Compound	Dase Leal				Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount	Discount
		Year	2	4	3	2	-				Year	1	2	e	4	2	9	7	80	6	0	11	12	13	14	15	16	17	18	19	70

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

	7	-							
	Fresent Valued Costs	Iolal Discounted Costs	ed Costs	\$6,827,651			Amortized Costs	sts	\$663,386
				Federal	LDNR				
_	<u>_</u>	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Kales	Year	& Design	& Land Rights	Administration	Administration Administration & Inspection	& Inspection	Contingency	Construction	Cost
~ i	.427 0	%	<u>S</u>	\$	0 \$	0\$	%	05	\$0
Ξ.	.329 0	%	9	\$0	\$0	\$0	80	9	. 9
==	.238 1997	\$28,473	\$56,947	\$	S	S	. .	0\$	\$85 420
۔ ہے۔	153 1998	\$375,858	\$	\$396.192	\$79.134	\$272.094	\$544 043	\$2 176 179	\$3 843 403
	.074 1999	\$	\$ 0	\$36,898	\$19,181	\$253,405	\$506.676	\$2,026,703	\$2,842,863
1	Total	\$404,331	\$56,947	\$433,090	\$98,315	\$525,499	\$1,050,719	\$4,202,876	\$6,771,775
Discount	Fiscal	Monitoring	O8M	Other					
	Year	Costs	Costs	Costs					
0.931		\$4,590	\$0	\$466					
0.867	7 2001	\$4,275	9	\$434					
0.808	8 2002	\$3,982	0\$	\$404					
0.752	2 2003	\$3,708	\$	\$376					
0.701	1 2004	\$3,453	\$0	\$350					
0.653	3 2005	\$3,216	9	\$326					
0.608		\$2,995	\$	\$304					
0.566	5 2007	\$2,790	\$0	\$283					
0.527	7 2008	\$2,598	2 0	\$264					
0.491	1 2009	\$2,420	\$ 0	\$245					
0.457	7 2010	\$2,253	9	\$229					
0.426	5 2011	\$2,099	2 0	\$213					
0.397	7 2012	\$1,954	\$0	\$198					
0.369	3 2013	\$1,820	0\$	\$185					
0.344	2014	\$1,695		\$172					
0.320	2015	\$1,579	20	\$160					
0.298	3 2016	\$1,470	\$ 0	\$149					
0.278	3 2017	\$1,369	0\$	\$139					
0.259	9 2018	\$1,275	20	\$129					
0.241	2019	\$1,188	\$0	\$120					
	Total	\$50,730	0\$	\$5,146	,				
₹	Average Annual	\$4 929	0\$	6500					
			*	•					

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

Ę	Fully Funded Costs		Iolal Fully Funded Costs	ided Costs	\$6,438,439			Amortized Costs	ls	\$625,569
					Federal	LDNR				
	Inflation	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Year	Factor	Year	& Design	& Land Rights	Administration	Administration Administration & Inspection	& Inspection	Contingency	Construction	Cost
2		0	\$	0 \$	S	9	20	20	05	9
4		0	\$	\$	S	20	S	9	\$	3
e	1.000	1997	\$23,000	\$46,000	. S	. S	9	\$ 5	3	000 003
7	1.027	1998	\$334,802	0\$	\$352.915	\$70.490	\$242.372	\$484 616	04 61 038 463	903,000 63,423,666
-	1 055	1999	\$	\$	\$36,244	\$18,841	\$248.916	\$497,700	£1 990 801	40,423,636
	1	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	20	\$542					
-5	1.112	2001	\$5,481	. S	\$556					
6	1.142	2002	\$5,631	. S	\$571					
4	1.173	2003	\$5,783	0\$	\$587					
-5	1.205	2004	\$5,940	0\$	\$603					
Ģ	1.238	2005	\$6,100	9	\$619					
1-	1.271	2006	\$6,265	9	\$635					
æ	1.305	2007	\$6,434	0\$	\$653					
6-	1.341	2008	\$6,607	9	\$670					
-10	1.377	2009	\$6,786	9	\$688					
÷	1.414	2010	696'9\$	\$	\$707					
-12	1.452	2011	\$7,157	0\$	\$726					
-13	1.491	2012	\$7,350	9	\$746					
-14	1.532	2013	\$7,549	0\$	\$766					
-15	1.573	2014	\$7,753	20	\$786					
-16	1.615	2015	\$7,962	\$	\$808					
-17	1.659	2016	\$8,177	\$	\$829					
-18	1.704	2017	\$8,398	\$	\$852					
-19	1.750	2018	\$8,625	0 \$	\$875					
-20	1.797	2019	\$8,857	%	8889					
	CT.	1								

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Marsh Creation Using Dredge Materials East of the Atchafalya River at Creole Ba

	23	0.0971616	\$5,313,500	
CW-5ii)	Total Project Years	Amoritization Factor	Total Fully Funded Costs	
	, E	7.38%	\$5,160,200	
	Project Construction Years:	Interest Rate	Total First Costs	

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

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

First Costs and Annual Charges

Fiscal Year Year 5 Compound 19 2 Compound 19 1 Compound 19 2 Compound 19 Base Year TOTAL Year Year 1 Discount 20 2 Discount 20 3 Discount 20 4 Discount 20 5 Discount 20 6 Discount 20 6 Discount 20 6 Discount 20 6 Discount 20 6 Discount 20	al Engineering r & Design \$0	erino		Constitution		Cinanalisa		First Cost	Total First
Compound Compound Compound Compound Compound Base Year TOTAL Fisc Yea Discount Discount Discount Discount Discount Discount Discount Discount Discount Discount			Easements	Supervision &	Supervision & Supervision	Super vision			
Compound Compound Compound Compound Base Year TOTAL Fisc Yea Discount Discount Discount Discount Discount Discount Discount Discount Discount			& Land Rights	Administration	Administration Administration & Inspection	& Inspection	Contingency	Construction	Cost
Compound Compound Compound Base Year TOTAL Fisc Yea Discount Discount Discount Discount Discount Discount Discount Discount		3	\$	0\$	0\$	0\$	0\$	0\$	0\$
Compound Compound Base Year TOTAL Fisc Yea Discount Discount Discount Discount Discount Discount Discount Discount		9	\$	9	%	\$	%	0\$	O \$
Compound Compound Base Year TOTAL Fisc Vez Discount Discount Discount Discount Discount Discount Discount	1997 \$23,		\$23,000	3	\$	\$0	9 0	9	\$46,000
Compound Base Year TOTAL Fisc Vez Discount Discount Discount Discount Discount Discount	1998 \$276,	000'9	\$0	\$281,818	\$56,364	\$194,000	\$387,500	\$1,550,000	\$2,745,682
Base Year TOTAL Fisc Yea Discount Discount Discount Discount Discount Discount	1999	3	9	\$28,182	\$15,636	\$194,000	\$387,500	\$1,550,000	\$2,175,318
TOTAL Fisc Poscount Discount Discount Discount Discount Discount									
Fisc Vez Discount Discount Discount Discount Discount	\$289,	000'6	\$23,000	\$310,000	\$72,000	\$388,000	\$775,000	\$3,100,000	\$4,967,000
Yez Discount Discount Discount Discount Discount Discount	al Monitoring	oring	08M	Other					
Discount Discount Discount Discount Discount Discount		sts	Costs	Costs					
Discount Discount Discount Discount Discount	2000 \$4	4,929	3	\$200					
Discount Discount Discount Discount	2001	\$4,929	\$	\$200					
Discount Discount Discount	2002	\$4,929	3	\$200					
Discount Discount	2003 \$4	4,929	≎	\$200					
	2004 \$4	4,929	%	\$200					
		\$4,929	\$	\$200					
7 Discount		\$4,929	S	\$200					
3 Discount		\$4,929	S	\$200					
9 Discount	2008 \$4	4,929	\$	\$200					
10 Discount	2009 \$4	4,929	\$	\$200					
Discount	2010 \$4	4,929	%	\$200					
12 Discount	2011	\$4,929	%	\$200					
		\$4,929	\$	\$200					
14 Discount		\$4,929	\$0	\$200					
5 Discount		\$4,929	\$	\$200					
16 Discount	2015	\$4,929	%	\$200					
7 Discount	2016	\$4,929	9	\$200					
18 Discount	2017 \$4	4,929	\$	\$200					
19 Discount	2018	\$4,929	S	\$500					
20 Discount	2019 \$4	4,929	80	\$500					
Total	\$98	8,580	0\$	\$10,000					

Costs amortized over 20 year operation life

Costs amortized over 20 year operation life

3/14/97

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

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

Prese	Present Valued Costs	ts.	Total Discounted Costs	ed Costs	\$5,614,174			Amortized Costs	<u>v</u>	\$545,482
					Federal	LDNR				
Vear	Compound Pates	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision	;	First Cost	Total First
2 4		Call	o Design	a Land Rights	Administration	Administration & Inspection	& Inspection	Contingency	Construction	Cost
,	1320	•	0	2	0.5	3	9	0\$	0\$	3
-	1.329	0	3	9	%	S	\$ 0	\$	0\$	0\$
က	1.238	1997	\$28,473	\$28,473	\$	%	\$ 0	20	S 0	\$56.947
2	1.153	1998	\$318,211	0\$	\$324,919	\$64,984	\$223,670	\$446.764	\$1 787 056	\$3 165 604
-	1.074	1999	%	\$	\$30,260	\$16,790	\$208,308	\$416,078	\$1,664,313	\$2,335,748
	–	Total	\$346,684	\$28,473	\$355,179	\$81,773	\$431,978	\$862,842	\$3,451,368	\$5,558,298
	Discount	Fiscal	Monitoring	08M	Other					
Year	Rates	Year	Costs	Costs	Costs					
Ţ	0.931	2000	\$4,590	05	\$466					
-5	0.867	2001	\$4,275	9	\$434					
	0.808	2002	\$3,982	9	\$404					
4-	0.752	2003	\$3,708	\$0	\$376					
-5	0.701	2004	\$3,453	\$	\$350					
9-	0.653	2005	\$3,216	%	\$326					
1-	0.608	2006	\$2,995	%	\$304					
& -	0.566	2007	\$2,790	\$	\$283					
6-	0.527	2008	\$2,598	\$	\$264					
-10	0.491	2009	\$2,420	S	\$245					
-	0.457	2010	\$2,253	%	\$229					
-12	0.426	2011	\$2,099	0 \$	\$213					
-13	0.397	2012	\$1,954	0 \$	\$198					
-14	0.369	2013	\$1,820	0 \$	\$185					
-15	0.344	2014	\$1,695	% ∴	\$172					
-16	0.320	2015	\$1,579	20	\$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					
-20	0.241	2019	\$1,188	\$ 0	\$120					
	JC	Total	\$50,730	S.	\$5,146					
	Average Annual	ਰ	\$4,929	\$0	\$200					

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Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

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

Y			iotal rully runged costs	ded Costs	\$5,313,466			Amortized Costs	S)	\$516,265
					Federal	LDNR				
X	Inflation	Fiscal	Engineering P. Decina	Easements	Supervision &		Supervision		First Cost	Total First
5 C	9000	C	OS CONTRACTOR	c cand mains	OS COMPINE MAINTING	CO CONTRACTION OF INSPECTION	US CELLION	Conungency	Construction	Cost
4		0	3	S	9	3	9	3	3	
က	1.000	1997	\$23,000	\$23,000	S	. S	S.	3	9	\$46,000
7	1.027	1998	\$283,452	0\$	\$289,427	\$57,885	\$199,238	\$397.963	\$1,591,850	\$2 819 815
-	1.055	1999	0\$	0\$	\$29,724	\$16,492	\$204,617	\$408,707	\$1,634,830	\$2,294,371
	_	TOTAL	\$306,452	\$23,000	\$319,151	\$74,378	\$403,855	\$806,670	\$3,226,680	\$5,160,186
	Inflation	Fiscal	Monitoring	O8M	Other					
Year	Factor	Year	Costs	Costs	Costs					
-	1.083	2000	\$5,339	95	\$542					
-5	1.112	2001	\$5,481	9	\$556					
ကု	1.142	2002	\$5,631	9	\$571					
4	1.173	2003	\$5,783	\$	\$587					
5	1.205	2004	\$5,940	%	\$603					
9	1.238	2005	\$6,100	\$	\$619					
-1	1.271	2006	\$6,265	\$ 0	\$635					
8	1.305	2007	\$6,434	9	\$653					
6-	1.341	2008	\$6,607	\$	\$670					
-10	1.377	2009	\$6,786	%	\$688					
÷.	1.414	2010	\$6,969	%	\$707					
-12	1.452	2011	\$7,157	%	\$726					
-13	1.491	2012	\$7,350	9	\$746					
-14	1.532	2013	\$7,549	\$	\$766					
-15	1.573	2014	\$7,753	%	\$786					
-16	1.615	2015	\$7,962	%	\$808					
-17	1.659	2016	\$8,177	\$	\$829					
-18	1.704	2017	\$8,398	\$	\$852					
-19	1.750	2018	\$8,625	0\$	\$875					
-20	1.797	2019	\$8,857	%	\$899					
	7	Total	£130 163	5	C14 117					

Red/Spanish Pass Diversion (PBA-11)

24	0.0971616	\$7,283,600
Total Project Years	Amonitzation Factor	Total Fully Funded Costs
·	7.38%	\$6,371,600
Project Construction Years:	Interest Rate	Fotal First Costs

Average Annual	\$623,000 \$23,600 \$7,500 \$500	\$654,600	210	\$3,117	31
Present Worth	\$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

Red/Spanish Pass Diversion (PBA-11)

First Costs and Annual Charges

	n First Cost Total First	Contingency Construction		9	\$2700		\$971,236 \$3,884,943 \$:		5 \$971,236 \$3,884,943 \$5,905,114																						
LDNR	Supervision & Supervision	Administration & Inspection	2		\$11,511	\$34,533	\$45,655 \$371,765		\$91,699 \$371,765																						
Federal	Supervision &	Administration /	0\$	\$0	\$8,261	\$24,784	\$22,719		\$55,765	Other	Costs	\$500	\$200	\$500	\$200	\$500	\$500	\$200	\$200	\$500	\$200	\$200	\$500	\$500	\$500	\$200	\$200	\$500	\$200	\$200	\$500
	Easements	& Land Rights	0 \$	0 \$	\$40,000	%	9		\$40,000	O8M	Costs	9	%	9	\$	\$50,000	3	9	\$0	%	\$50,000	\$	0\$	S	S	\$50,000	\$ 0	0\$	\$	9	\$
	Engineering	& Design	9	3	\$210,882	\$278,824	9		\$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
			Compound	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	Discount

Red/Spanish Pass Diversion (PBA-11)

Prese	Present Valued Costs	S):	Total Discounted Costs	ed Costs		,	•			
					90,130,370			Amortized Costs	<u>s</u>	\$654,537
		i			Federal	LDNR				
, o ,	3	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	
5 4	اکا	rear	& Design	& Land Rights	Administration	Administration Administration & Inspection	& Inspection	Continuency	Constantia	Iotal First
o ·	17471	•	3	9	20	5	9	Commission,	CONSTITUCION	Cost
4	1.329	1997	S	9	\$ 5		•		O \$	3
3	1.238	1998	\$261,066	549 519	400 013	0.00	0	9	0\$	9
7	1.153	1999	£324 467		177'01+	14,250	S	9	9	\$335.062
-	1.074	0000	104,1264	2	\$28,575	\$39,814	\$	\$ 0	. S	£380,856
		1	04	05	\$24,395	\$49,022	\$399,183	\$1,042,864	54 171 458	€5, 686,034
	=	<u> </u>	262,58c ¢	\$49,519	\$63,197	\$103,087	\$399,183	\$1,042,864	\$4,171,458	\$6,411,839
	Discount	Fiscal	Monitorina	ORM	2040					
Year	Rates	Year	Costs	Costs	Costs		,			
7	0.931	2001	\$21,973	95	CARR				-	
ې D-	0.867	2002	\$20,463	S	2 434					
108 ٺ	0.808	2003	\$19,058	9	\$404					
7	0.752	2004	\$17,749	05	\$376					
ċ	0.701	2005	\$16,530	\$35,031	\$350					
Ģ	0.653	2006	\$15,394	20	965					
-7	0.608	2007	\$14,337	9	\$ 304			1		
æ	0.566	2008	\$13,352	90	\$ 283					
Q.	0.527	2009	\$12,435	. S	\$ 264					
-10	0.491	2010	\$11,581	\$24.544	\$245					
-	0.457	2011	\$10,786	80	\$229					
-15	0.426	2012	\$10,045	. \$	\$213					
-13	0.397	2013	\$9,355	0\$	\$198					
-14	0.369	2014	\$8,712	0\$	\$185					
-15	0.344	2015	\$8,114	\$17,196	\$172					
-16	0.320	2016	\$7,557	30	\$160					
-17	0.298	2017	\$7,038	0\$	\$149					
₽ :	0.278	2018	\$6,554	2 0	\$139					
<u>5</u>	0.259	2019	\$6,104	20	\$129					
-50	0.241	2020	\$5,685	\$0	\$120					
	Total	ਰ	\$242,822	\$76,771	\$5,146					
∢	Average Amual		\$23,593	\$7,459	\$500					

Costs amortized over 20 year operation life

Coastal Wetlands Conservation and Restoration Plan Priority Project List VI

Red/Spanish Pass Diversion (PBA-11)

Amothzed Casts	LDNR		s Inspect	0\$ 0\$ 0\$	0\$ 0\$ 0\$	\$11,822 \$0 \$0	\$36,423 \$0 \$0	:	\$97,698 \$402,698 \$1,052,049 \$4,208,196																					
\$7,283,553	Federal	Supervision & Su	Administration Ad	9	9	\$8,485	\$26,141	\$24,609	\$59,235	Other	Costs	\$556	\$571	\$587	\$603	\$619	\$635	\$653	\$670	\$688	\$707	\$726	\$746	\$766	\$786	\$808	\$829	4852	4004	\$875
led Costs			- 1	9	S	\$41,080	\$ 0	%	\$41,080	08M	Costs	3	\$	9	\$	\$61,878	9	0\$	\$0	9	\$70,695	\$ 0	9	\$0	0 \$	\$80,768	\$	S		. O S
Total Fully Funded Costs		Engineering	& Design	3	8	\$216,576	\$294,083	0\$	\$510,660	Monitoring	Costs	\$26,233	\$26,955	\$27,683	\$28,430	\$29,198	\$29,986	\$30,796	\$31,627	\$32,481	\$33,358	\$34,259	\$35,184	\$36,134	\$37,109	\$38,111	\$39,140	\$40,197		\$41,282
_		Fiscal	Year	0	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
		_			000	027	055	083	-	HOU	lor	1112	142	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
Fully Funded Costs		Inflation	Factor		Ξ	Ξ		-		Inflation	Factor	-	_	_	•															

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

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

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

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Coastal Wetlands 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

	First Cost Total First	Contingency Construction Cost	0\$ 0\$ 0\$	000'661\$ 0\$ 05	\$127,143 \$508,571 \$1,403,764	\$1,525,714 \$6,102,857 \$8,837,202	\$127,143 \$508,571 \$1,056,999		\$1,780,000 \$7,120,000 \$11,496,965																							
	Supervision	- 1	0 \$	\$	\$63,571	\$762,857	\$63,571		\$890,000																							
LDNR	Supervision & Supervision	Administration & Inspection	0\$	\$	\$61,913	\$74,296	\$17,191		\$153,400																							
Federal	Supervision &	Administration	0 \$	\$	\$309,565	\$371,478	\$340,522		\$1,021,565	Other	Costs	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$500	\$200	\$10,000
	Easements	& Land Rights	0\$	\$163,000	%	o \$	9		\$163,000	O8M	Costs	%	\$	\$	\$	\$ 0	\$ 0	9	3	9	≎	%	≎	9	\$	0 \$	≎	0\$	9	\$ 0	%	0\$
	Engineering	& Design	3	\$36,000	\$333,000	3	3		\$369,000	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	2000		TOTAL	Fiscal	Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Total
		<u></u>	5 Compound	4 Compound	3 Compound	2 Compound	1 Compound	Base Year			Ţ	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	8 Discount	9 Discount	Discount	
		Year		4	,	. 7	,				Year		. •	.,	4	٠,	J		w	,	10	=	12	13	14	15	16	17	18	19	20	

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

Prese	Present Valued Costs		Total Discounted Costs	ed Costs	\$13,381,924			Amortized Costs	ø	\$1,300,209
				~.	Federal	LDNR				
	ٽ	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Year	Ra	Year	& Design	& Land Rights	Administration		& Inspection	Contingency	Construction	Cost
5	1.427	0	0 \$	O \$	95	\$	90	20	9	9
4	1.329	1997	\$47,854	\$216,671	. S	9.	S	3	3	0¢
3	1.238	1998	\$412,243	S	\$383,232	\$76 646	\$78.699	£157 300	6620 505	47C,404¢
2	1.153	1999	90	9	\$428.292	CB5 658	\$20 E28	4 7EO 0EG	62,620	C10,1C1,14
-	1.074	2000	9	3	\$365,635	\$18.459	\$68.260	\$1,739,036	\$7,036,222 \$546,029	\$10,188,756
	1	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	0 8M	Other		-			
Year		Year	Costs	Costs	Costs		4 * ·			
-	0.931	2001	\$4,590	9	\$466					
-5	0.867	2002	\$4,275	%	\$434					
3	0.808	2003	\$3,982	9	\$404					
4	0.752	2004	\$3,708	0\$	\$376					
ςĊ	0.701	2005	\$3,453	0\$	\$350					
Ģ	0.653	2006	\$3,216	\$ 0	\$326					
-7	0.608	2007	\$2,995	%	\$304					
æ	0.566	2008	\$2,790	9	\$283					
<u>6</u> -	0.527	2009	\$2,598	S	\$264					
-10	0.491	2010	\$2,420	\$	\$245					
÷	0.457	2011	\$2,253	\$	\$229					
-12	0.426	2012	\$2,099	%	\$213					
-13	0.397	2013	\$1,954	%	\$198					
-14	0.369	2014	\$1,820	0\$	\$185					
-15	0.344	2015	\$1,695	9	\$172					
-16	0.320	2016	\$1,579	\$	\$160					
-17	0.298	2017	\$1,470	0\$	\$149					
-18	0.278	2018	\$1,369	0\$	\$139					
-19	0.259	2019	\$1,275	\$	\$129					
-50	0.241	2020	\$1,188	\$	\$120					
	To	Total	\$50,730	\$	\$5,146					
	Average Annual	77	\$4,929	0 \$	\$500					

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

Amortized Costs \$1,191,579		a Inspection Contingency Construction	0\$ 0\$	04 04	\$65,288 \$130,576 \$522,303	\$804,608 \$1,609,215 \$6,436,860	\$18,622 \$68,861 \$137,722 \$550,888 \$1,144,948																						
\$12,263,886			S				ľ	3	Other	Costs	\$556	\$571	\$587	\$603	\$619	\$635	\$653	\$ 670	\$ 688	\$707	\$726	\$746	99.	\$786	\$808	\$829	\$852	4 875	2 2 2
ded Costs			S	\$163,000	%	%	0\$	000'00	08M	Costs	3	\$	2	2	3	9	9	3	9	0\$	9	9	9	9	9	0\$	0\$	9	•
Total Fully Funded Costs	a	- 1	3	236,000	\$341,991	\$	9	66.716	Monitoring	Costs	\$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	\$6,398	\$8 625	
[otal	_		0	1997	1998	1999	2000	ا	Fiscal	Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
		Year		_				5																					
Fully Funded Costs Total	Fiscal	Factor Year			1.027	1.055	1.083			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	2

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

Average	\$411,000 \$2,400 \$57,200 \$500		118	\$26,172	40
Annual Charges Worth	Interest & Amortization \$4,229,600 Monitoring \$25,200 O & M Costs \$589,000 Other Costs \$5,100	Total	Average Annual Habitat Units	Cost Per Habitat Unit	Average Annual Acres of Emergent Marsh

First Costs and Annual Charges

				Federal	LDNR				
	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision & Supervision	Supervision		First Cost	
	Year	& Design	& Land Rights	Administration	Administration Administration & Inspection	& Inspection	Contingency	Construction	
		9 \$	0\$	0\$	0\$	0\$	O \$	3	
		\$	\$	\$ 0	%	\$	\$	9	
	1997	\$34,000	\$13,000	\$	%	3	%	\$	
	1998	\$254,000	\$	\$160,000	\$32,000	\$	%	%	
	1999	\$	\$	\$80,000	\$26,000	\$300,000	000'009\$	\$2,400,000	
TOTAL		\$288,000	\$13,000	\$240,000	\$58,000	\$300,000	\$600,000	\$2,400,000	
~3	Fiscal	Monitoring	OSM	Other					
	Year	Costs	Costs	Costs					
	2000	\$2,451	0\$	\$200					
	2001	. \$2,451	\$	\$200					
	2002	\$2,451	\$	\$200					
	2003	\$2,451	\$	\$200					
	2004	\$2,451	\$0	\$200					
	2002	\$2,451	\$	\$200					
	2006	\$2,451	%	\$200					
	2007	\$2,451	9	\$200					
	2008	\$2,451	9	\$200					
	2009	\$2,451	\$1,200,000	\$200					
	2010	\$2,451	0 \$	\$200					
	2011	\$2,451	3	\$200					
	2012	\$2,451	\$	\$200					
	2013	\$2,451	\$	\$200					
	2014	\$2,451	\$	\$200					
	2015	\$2,451	\$	\$200					
	2016	\$2,451	\$	\$200					
	2017	\$2,451	S	\$200					
	2018	\$2,451	S	\$200					
	2019	\$2,451	S	\$200					
I		\$49,020	\$1,200,000	\$10,000					

ē	Present Valued Costs		Total Discounted Costs	ed Costs	\$4,849,006			Amortized Costs	si	\$471,137
					Federal	LDNR				
	Compound	Fiscal	Engineering	Easements	Supervision &	Supervision & Supervision	Supervision		First Cost	Total First
Lear	Kales	Year	& Design	& Land Rights	Administration	Administration & Inspection	& Inspection	Contingency	Construction	Cost
Ω	1.427	0	\$	\$	0\$	0 \$	\$0	1	Ş	60
4	1.329	0	\$	0\$	\$0	90	9	;		
3	1.238	1997	\$42,091	\$16,094	90	9	\$ 5	•		04
7	1.153	1998	\$292,847	05	\$184 470	\$36.894	3			354,045
-	1.074	1999	9	9	\$85,900	\$27.918	\$322 125	\$644.250	000 223 63	117,4164
	1	Total	\$334,937	\$16,094	\$270,370	\$64,812	\$322,125	\$644,250	\$2,577,000	\$4,229,588
	Discount	Fiscal	Monitoring	0 8M	Other					
Year	Rates	Year	Costs	Costs	Costs					
-	0.931	2000	\$2,283	0\$	\$466	•				
?	0.867	2001	\$2,126	S	\$434					
نئ	0.808	2002	\$1,980	. S	\$404					
4	0.752	2003	\$1,844	. 3	\$376					
٠,	0.701	2004	\$1,717	· 0\$	\$350					
9	0.653	2005	\$1,599	\$	\$326					
-	809.0	2006	\$1,489	0 \$	\$304					
æ	0.566	2007	\$1,387	9	\$283					
ō.	0.527	2008	\$1,292	9	\$264					
-10	0.491	2009	\$1,203	\$589,046	\$245					
-	0.457	2010	\$1,120	O \$	\$229					
-12	0.426	2011	\$1,044	\$	\$213					
-13	0.397	2012	\$972	O \$	\$198					
-14	0.369	2013	\$905	0\$	\$185					
-15	0.344	2014	\$843	.0\$	\$172					
-16	0.320	2015	\$785	0\$	\$160			,		
-17	0.298	2016	\$731	\$0	\$149					
-18	0.278	2017	\$681	0\$	\$139					
-19	0.259	2018	\$634	20	\$129					
-50	0.241	2019	\$591	\$ 0	\$120					
	δ	Total	\$25,226	\$589,046	\$5,146					
٩	Average Application	7	CO 451	667 000	•					
•	אווווש פלים ופער	==	\$2,431	\$27/5	\$200					

1	runy rundeu coata		I oral rully runded costs	aea Cosis	679'759'6\$			Amortized Costs	SI	\$200°.727
					Federal	LDNR				
	Inflation	Fiscal	Engineering	Easements	Supervision &		Supervision		First Cost	Total First
- 1	Factor	Year	& Design	& Land Rights	Administration	Administra	& Inspection	Continger	Construction	Cost
		0	3	%	\$	\$	\$	3	3	9
		0	\$	\$	3	\$	\$	\$	<u>\$</u>	\$0
	1.000	1997	\$34,000	\$13,000	\$	\$	\$	9	9	\$47,000
	1.027	1998	\$260,858	\$	\$164,320	\$32,864	\$	\$	0\$	\$458,042
	1.055	1999	%	\$0	\$84,378	\$27,423	\$316,419	\$632,837	\$2,531,350	\$3,592,407
1	Ĭ	TOTAL	\$294,858	\$13,000	\$248,698	\$60,287	\$316,419	\$632,837	\$2,531,350	\$4,097,449
	Inflation	Fiscal	Monitoring	M\$ O	Other					
	Factor	Year	Costs	Costs	Costs					
	1.083	2000	\$2,655	0\$	\$542					
	1.112	2001	\$2,725	S	\$556					
	1.142	2002	\$2,800	\$	\$571					
	1.173	2003	\$2,876	\$	\$587					
	1.205	2004	\$2,953	0\$	\$603					
	1.238	2005	\$3,033	0\$	\$619					
	1.271	2006	\$3,115	%	\$635					
	1.305	2007	\$3,199	\$	\$653					
	1.341	2008	\$3,286	\$	\$670					
	1.377	2009	\$3,374	\$1,652,062	\$688					
	1.414	2010	\$3,465	≎	\$707					
	1.452	2011	\$3,559	\$	\$726					
	1.491	2012	\$3,655	9	\$746					
	1.532	2013	\$3,754	9	\$766					
	1.573	2014	\$3,855	9	\$786					
	1.615	2015	\$3,959	9	\$808					
	1.659	2016	\$4,066	0\$	\$829					
	1.704	2017	\$4,176	\$0	\$852					
	1.750	2018	\$4,289	\$0	\$875					
	1.797	2019	\$4,404	\$ 0	\$899					
	<u> </u>	10101	000 000	C+ GE2 062	C14 117					

Coastal Wetlands Planning, Protection and Restoration Act

6th Priority Project List Report

Appendix E

Wetland Value Assessment For Candidate Projects

Appendix E

Wetland Value Assessment For Candidate Projects

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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:

<u>Area</u>	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:

Fresh.....

Condition: Future Without Project

Intermediate.. 13698

		TY 0		TY 1		TY 10	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	48	0.53	47	0.52	46	0.5
V2	% Aquatic	25	0.33	25	0.33	23	0.3
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 =	0.5

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

V2 (% Aquatic sterspersion Class 1	45 22 %	0.51 0.30	Value	SI	Value	SI
V2 (% Aquatic	22	0.30	94		·	
	nterspersion Class 1			94			
V3 In	Class 1	%	İ	94			
	Class 2 Class 3 Class 4 Class 5	20 40 40	0.36	74		%	
V4 %C	OW <= 1.5ft	80	1.00				
ļ	alinity (ppt) fresh intermediate	7	0.40				
V6A	Access Value	1.00	1.00 0.50	HSI =			

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

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

Marsh type acres: Fresh.....

Area I

Condition: Future With Project

Intermediate.. 13698

		TY 0		TY 1		TY 10	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	48	0.53	48	0.53	57	0.6
V2	% Aquatic	25	0.33	30	0.37	60	0.6
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 40 40	0.36	% 20 40 40	0.36	% 50 50	0.5
V4	%OW <= 1.5ft	85	1.00	85	1.00	87	1.0
V5	Salinity (ppt) fresh intermediate	6	0.60	4	1.00	4	1.00
V6	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 HSI =	1.00				

AAHU CALCULATION

Project: XCS-48 Black Bayou Hydrologic Restoration

Area I

Future Witho	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 Pr	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
			AAHU's	9198.16

NET CHANGE IN AAHU'S DUE TO PROJECT	1
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

Marsh type acres.....

11831

Area I

Condition: Future Without Project

		TY 0		TY 1		TY 10)
Variable		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	
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	
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
	<u>L</u>	HSI =	0.66	HSI =	0.66	HSI =	0.66

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

		TY 20					
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	59	0.63			-	
	% 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				
V5	Salinity (ppt)	4	1.00				 -
·V6	Access Value	1.00	1.00				
		HSI =	0.65	HSI =		HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

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

Marsh type acres......

11831

Area II

Condition: Future With Project

	7 (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
∨5	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
	<u>L</u>	HSI =	0.66 i	HSI =	0.67	HSI =	0.7

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

		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	%		%	
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

Future Witho	out 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
	:			
			AAHII'e =	7771 21

Future With Pr	roject		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
			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

WETLAND VALUE ASSESSMENT

AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

XCS-48 Black Bayou Hydrologic Restoration - Area I

Date:

October 2, 1996

Total Area:

13,698

Target	FV	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
•					
0	6,516	48	6,516	48	
1	6,501	47	6,630	48	129
2	6,486	47	6,746	49	260
3	6,470	47	6,863	50	393
4	6,455	47	6,983	51	528
5	6,440	47	7,105	52	665
6	6,425	47	7,229	53	804
7	6,410	47	7,355	54	945
8	6,395	47	7,484	55	1,088
9	6,380	47	7,614	56	1,234
10	6,365	46	7,747	57 57	1,382
11	6,351	46	7,815	57	1,464
12	6,336	46	7,883	58	1,547
13	6,321	46	7,952	58	1,631
14	6,306	46	8,021	59	1,715
15	6,291	46	8,092	59	1,713
16	6,277	46	8,162	60	1,885
17	6,262	46	8,233	60	1,883
18	6,248	46	8,305	61	•
19	6,233	46	8,378	61	2,058
20	6,218	45	8,451	62	2,145
. — —	J, _ . U	73	0,731	02	2,233
Total Years 1-20	127,172		153,050		
Average Annual	6,359		7,652		1,294

WETLAND VALUE ASSESSMENT

AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

XCS-48 Black Bayou Hydrologic Restoration - Area II

Date:

October 2, 1996

Total Area:

11,831

Target	FW	/OP	F'	WP	
Year	Acres	%	Acres	%	Net Acres
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
8	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	8,378	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 bottomiand 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

4876.10 AAHUs

Flood Control Only Project

- 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

		TY 0			1	<u> </u>		TY 20		
Variable		Class/Valu	10	SI	Class/Val	ue	SI	Class/Value	SI	
V1	Stand Structure	I.								
		% Cover			% Cove	r		% Cover	1	
	Overstory	Ì	50	0.58		50	0.57	50	0.3	
	Scrub shrub		40			40		40	0	
	Herbaceous		30			30		30	וכ	
V2	Maturity	Age	- 1		Age			Age		
	(input age	_	-							
	or	Cypress %			Cypress		}	Cypress %		
			75			75	Ì	7!	5	
	species	Cypress dt			Cypress d		1	Cypress dbh		
	composition		16		_	16	Ì	16		
	and	Tupelo et al.			Tupeio et a			Tupelo et al. %		
	dbh)	.	25			25		_ 25	ì	
		Tupelo et al			Tupelo et al			Tupelo et al db		
		01	10	0.86		10	0.86	10	0.8	
V3	Hyrology	Class			Class			Class		
V3	Hyrology	Class		0.68	Class		0.68		0.6	
V4	Forest Size	Class	5	1.00	Class	5	4.00	Class		
	Surrounding	Values	%	1.001	Values	_ 	1.00	5.00		
V5	Land Use	V 01063	76		values	70		Values %	0	
	Land 036									
	Forest / marsh		70	0.77		70	0.77	70	0.7	
	Abandoned Ag		5	0.,,		5	0.77	5		
	Pasture / Hay		5			5		5		
	Active Ag		10	ļ		10		10		
	Development		10	1		10		10		
· ·	Disturbance							, 10		
V6		Class		1	Class			Class		
	Туре		İ	0.86	0.000		0.86	0,200	0.86	
	7,5-	Class		3.30	Class	ļ	5.50	Class	0.00	
	Distance	-	1		0.230			0,600		
	V	HSI	=	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				20			
Variable		Class/Valu	10	SI	Class/Val	ue	SI	Class/Val	ue.	SI
V1	Stand Structure	% Cover			% Cove			% Cove		
	Overstory		50	0.58		50	0.59		50	0.72
	Scrub shrub		40			40			40	
	Herbaceous		30			30			30	
V2	Maturity (input age	Age			Age			Age		
	or	Cypress 9	6		Cypress (%		Cypress '		
		:	75			75			75	ļ
	species	Cypress dt	oh		Cypress d	bh	j	Cypress d		
	composition		16			16			16	
	and	Tupelo et al			Tupelo et a			Tupelo et a		
	dbh)		25			25			25	1
		Tupelo et al			Tupelo et al			Tupelo et al		
			10	0.86		10	0.86		10	0.88
		Class	1		Class			Class		
V3	Hyrology			0.68			0.69			0.87
V4	Forest Size	Class	5	1.00	Class	5	1.00	Class	5	1.00
	Surrounding	Values	%	1.00	Values	<u> </u>		Values	%	
V5	Land Use	Values	/		Values	/0		Values	/6	
	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			0.86			0.86	· -		0.86
		Class			Class			Class		
	Distance									
		HSI	=	0.74	HSI	=	0.74	HSI	2	0.82

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

Flood Control Project and CWPPRA Project

Future With Pr	roject			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
					
					
					-
					
				Total CHUs =	2577832.68

AAHUs =

51556.65

Future Withou	t Project		i	Total	Cummulative
TY	Acres	X	HSI	HUs	HUs
01	165,000		0.74	121618.69	
1	165,462		0.73	121308.32	121463.81
20	174,240		0.64	111317.31	2212564.10
			-		
<u> </u>					
				Total	
	•		į	CHUs =	2334027.90
			Į	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 20 TY 0 **TY 1** Class/Value SI SI SI Class/Value Class/Value **Variable** Stand Structure % Cover % Cover % Cover 0.57 50 0.38 50 0.58 50 Overstory 40 40 40 Scrub shrub 30 Herbaceous 30 30 Age Age Age V2 Maturity (input age Cypress % Cypress % Cypress % or 75 Cypress dbh Cypress dbh Cypress dbh species composition Tupelo et al. % Tupelo et al. % Tupelo et al. % and 25 dbh) Tupelo et al dbh Tupelo et al dbh Tupelo et al dbh 0.86 0.84 0.86 10 10 Class Class Class 0.65 0.68 0.68 Hyrology **V3** Class Class Class 1.00 1.00 **V4** Forest Size 5 1.00 Values Surrounding Values Values % V5 Land Use 70 0.77 0.77 Forest / marsh 70 0.77 70 5 5 Abandoned Ag 5 5 5 5 Pasture / Hav 10 10 Active Ag 10 10 10 Development 10 Disturbance Class Jass Class **V6** 0.86 0.86 0.86 Type Class Class Class **Distance** 0.64 0.73 HSI 0.74 HSI HSI

COMMUNITY HABITAT SUITABILITY MODEL

Fresh Swamp

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

Acres:

165,000

Flood Control Project Only

Condition: Future With Project

	1		Y 0		TY 1			TY 20		
<u>Variable</u>	<u> </u>	Class/Val	Це	SI	Class/Va	ПÐ	SI	Class/Va		SI
V1	Stand Structure									
		% Cover			% Cove	r		% Cove	۲.	
	Overstory.		50	0.58	Ì	50	0.58	i	50	0.63
	Scrub shrub		40			40	ŀ		40	
	Herbaceous	1	30			30	1		30	
V2	Maturity	Age			Age			Age		
	(input age		Ì		_					
	or	Cypress 9	%		Cypress	%		Cypress	%	
			75			75			75	
	species	Cypress di			Cypress of	ibh		Cypress	ibh	
	composition		16			16			16	
	and	Tupelo et al			Tupelo et a			Tupelo et a	ıl. %	
	dbh)		25			25	ļ	1	25	
		Tupelo et al			Tupelo et a			Tupelo et a	l dbh	
-			10	0.86		<u> 10</u>	0.86		10	0.88
		Class			Class			Class		
V3	Hyrology		<u>· </u>	0.68			0.69	<u> </u>		0.82
		Class	_ [Class			Class		
V4	Forest Size		5	1.00		5	1.00		5	1.00
	Surrounding	Values	%		Values	%	1	Values	%	
V5 /	Land Use									
	5									
	Forest / marsh		70	0.77		70	0.77		70	0.77
	Abandoned Ag		5			5			5	
	Pasture / Hay		5	1		5			5	
	Active Ag		10			10			10	
	Development		10		·	10			10	
V6	Disturbance	Class.			0 1					
VO	Time	Class		ا مما	Class			Class		_
	Туре	Clas-		0.86	01		0.86		į	0.86
	Distance	Class			Class	ĺ		Class]	
	Distance	LIGI		V 2 V J	UOL			(12)		
	Į.	HSI	*	0.74	HSI	=	0.74	HSI	=	0.78

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

Flood Control Project Only

Future With Pr	oject		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
				····
				
			Total	

2506809.16

50136.18

CHUs = AAHUs =

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
			1	
				
			Total	
			CHUs =	2334027.90
÷			AAHUs =	46680.56

NET CHANGE IN AAHU'S DUE TO PROJECT	
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

Bottomiand Hardwoods

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

Acres:

Flood Control Project and CWPPRA Project

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	<u> </u>
V2	Maturity						
	(input age or	dbh		dbh		dbh	
	dbh, not both)	14	0.60	14	0.60	15.5	0.70
		Understory %		Understory %		Understory %	
V3	Understory /			1			
	Midstory	Midstory %		Midstory %		Midstory %	
			0.93		0.93		0.8
		Class		Class		Class	
V4	Hyrology		0.88		0.88		0.8
		Class		Class		Class	
V5	Forest Size		0.98		0.98		0.98
	Surrounding	Values %		Values %	ŀ	Values %	
V6	Land Use				1		
	F		[}	
	Forest / marsh	75	0.75	75	0.75	75	0.7
	Abandoned Ag		ł		[
	Pasture / Hay						
	Active Ag		1		ĺ		
	Development	25		25		25	
V7	Disturbance	01	1				
V /	Tunn	Class	0.00	Class		Class	
	Туре	3	0.65	3	0.65	3	0.6
	Distance	Class	. [Class	ł	Class	
	Distance	2	A 4A	2		2	
		HSI =	0.76	HSI ≖	0.76	HSI =	0.7

53.000

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		TY1		TY 20	
Variable		Class/Value	SI	Class/Value	SI	Class/Value	SI
		Class		Class		Class	
V1	Species Assoc.	4	0.80	4	0.80		0.8
V2	Maturity	Age		Age		Age	
	(input age or	dbh		dbh		dbh	
	dbh, not both)	14	0.60	14	0.60	16.255	0.79
V3	Understory /	Understory %		Understory %		Understory %	<u> </u>
	Midstory	Midstory %	0.93	Midstory %	0.93	Midstory %	0.9
		Class		Class		Class	<u> </u>
V4	Hyrology		0.88	3	1.00	3	1.6
V5	Forest Size	Class	0.98	Class	0.98	Class	0.9
V6	Surrounding Land Use	Values %		Values %	0.00	Values %	<u> </u>
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag	75	0.75	75	0.75	75	0.7
	Development	25		25			
V7	Disturbance	Class				25	
	Туре	Class 3	0.65	Class		Class	
	Distance	Class 2	0.65	Class 2	0.65	Class 3	0.6
		HSI =	0.76	HSI =	0.78	<u>. 2</u> HSI =	0.8

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

Future With P	roject			Total	Cummulative
TY	Acres	×	HSI	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	
				CHUs =	852183.83
				AAHUs =	17043.68

Future Withou	t Project			Total	Cummulative
TY	Acres	X	HSI	_ HUs	HUs
0	53,000		0.76	40360.11	
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	
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

Acres:

53,000

Flood Control Project Only
Condition: Future Without Project

Variable V1 V2	Species Assoc. Maturity	Class/Value Class 4	SI 0.80	TY 1 Class/Value Class	SI	TY 20 Class/Value	SI
V1	Maturity	Class 4		Class/Value	SI	Class/Value	SI
	Maturity	4	0.80				31
	Maturity		0.80	, .		Class	
V2	1	Age		4	0.80	0.200	0.78
V2	1			Age	3,00	Age	0.70
	1						
	(input age or	dbh		dbh		dbh	
	dbh, not both)	14	0.60	14	0.60	15.5	0.70
		Understory %		Understory %		Understory %	0.70
V3	Understory /					J., J. J. J. J. J. J. J. J. J. J. J. J. J.	
	Midstory	Midstory %		Midstory %		Midstory %	
			0.93	,	0.93	iniddicity /d	0.84
		Class		Class	0.00	Class	0.04
V4	Hyrology		0.88		0.88	Ciass	0.02
		Class		Class	0.00	Class	0.83
<u>V5</u>	Forest Size		0.98		0.98	Ciass	0.98
	Surrounding	Values %		Values %	0.00	Values %	0.90
V6	Land Use		•		1	Values /g	
					1		
	Forest / marsh	75	0.75	75	0.75	75	0.75
	Abandoned Ag	`		. •	0.75	. /5	0.75
	Pasture / Hay						
	Active Ag						
	Development	25	ł	25		25	
	Disturbance					25	
V 7		Class		Class		Class	
	Туре	3	0.65	3	0.65		
		Class		Class	3.63	Class	0.65
	Distance	2		2	-		
		HSI =	0.76	HSI =	0.76	2 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		Class	<u> </u>
V1	Species Assoc.	4	0.80	4	0.80		0.84
V2	Maturity	Age		Age		Age	
	(input age or	dbh		dbh		dbh	
	dbh, not both)	14	0.60	14	0.60	16.2	0.747
V3	Understory /	Understory %		Understory %		Understory %	
	Midstory	Midstory %		Midstory %		Midstory %	
			0.93		0.93		0.93
144		Class		Class		Class	
V4	Hyrology		0.88	3	1.00	3	1.00
V5	Forest Size	Class	0.98	Class	0.98	Class	0.98
V6	Surrounding Land Use	Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag	75	0.75	75	0.75	75	0.75
	Development	25		25		25	
	Disturbance	Class		Class		Class	
	Туре	3	0.65	3	0.65	3	0.65
	Distance	Class 2		Class 2		Class 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 Pr	oject		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	
			Total		

CHUs = 850306.57 17006.13 AAHUs =

Future Withou	ut Project		1	Total	(A	
TV				:1 !	Cummulative	
	Acres	X	HSI	HUs	HUs	
0	53,000		0.76	40360.11		
1	52,538		0.76	40008.30	40184.20	
20	43,760		0.77	33764.15	701118.01	
-						
			ļ	Total		
			1	CHUs =	741302.21	
			Į.	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
∨4	%OW <= 1.5ft	64	0.82	64	0.82	60	0.78
∨5	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 =	0.42	HSI =	0.43	HSI =	0.44

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

	11 11	TY 20					
/ariable		Value	SI	Value	SI	Value	SI
V1	% Emergent	13	0.22				
√2	% 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	0	1.00				
<u> V6</u>	Access Value	1.00	1.00				-

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	% 20	0.24	% 20	0.24	% 35	0.27
	Class 4 Class 5	80		80		65	
V4	%OW <= 1.5ft	64	0.82	65	0.83	70	0.89
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
	<u></u>	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	%		%	
V4	%OW <= 1.5ft	85	1.00				
∨5	Salinity (ppt) fresh intermediate	0	1.00				
V6	Access Value	1.00	1.00				
	Ĺ	HSI ≅	0.73	HSI =		HSI =	

Project: PMR-10 Delta Crevasse Management

Future Witho	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
			AAHU's =	2160.67

Future With Pr	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	
			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 = Net Change (FWP - FWOP) = 2160.67 927.15

WET LAND V LUE ASSE SMENT

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	783	15	783	15	
•	813	16	933	18	120
2 3	858	16	1085	21	227
	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		÷,610		
Aver 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

Area i

Marsh type acres:

Fresh.....

Condition: Future Without Project

Intermediate.. 14,892

141-61-	L	TYO		TY			TY 20	
Variable		Value	SI	Value	SI	Value	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	0.20	
V 4	%OW <= 1.5ft	10	0.21	10	0.21	3	0.13	
V5	Salinity (ppt) fresh intermediate	8	0.20	8	0.20	8	0.20	
V6	Access Value	1.00 HSI =	1.00	1.00	1.00	1.00	1.00	
	<u></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

Condition: Future With Project

Fresh.....

Intermediate.. 14,892

Maniabla	<u> </u>	TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	26	0.33	26	0.33	27	0.34
V2	% Aquatic	15	0.24	20	0.28	60	0.6
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
<u> V6</u>	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	i <u>L</u>	HSI =	0.32	HSI =	0.39	HSI ≖	0.49

Project: PBA-44 Fort Jackson/Boothville Diversion

Area I

Future Witho	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

uture 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
<u> </u>				
			AAHU's	6518.00

NET CHANGE IN AAHU'S DUE TO PROJECT

A. Future With Project AAHU's =

B. Future Without Project AAHU's =

Net Change (FWP - FWOP) = 6518.00 3849.91 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

· Variabla		TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	23	0.31	22	0.30	8	0.17
V2	% Aquatic	1	0.31	1	0.31	1	0.31
V3	Interspersion Class 1 Class 2 Class 3 Class 4	% 15 15 70	0.29	% 15 15	0.29	%	0.20
	Class 5			70		100	
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	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

Area II - Converts to brackish marsh, FWP - TY1

Condition: Future With Project

Vasiable	<u> </u>	TY 0		See brackish model below		See brackish model below	
Variable		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...... 6:

63176

Condition: Future With Project

V1 % Emergent 23 0.31 V2 % Aquatic 5 0.34 V3 Interspersion Class 1 Class 2 Class 3 Class 4 Class 5 15 Class 70 Class 1 Class 5 0.29	\/aciabla		See saline model		L TY 1	1	TY 20)
V2 % Aquatic 5 0.34 V3 Interspersion	Variable	<u> </u>	Value	SI	Value	SI		SI
V2 % Aquatic 5 0.34 V3 Interspersion Class 1 Class 2 Class 3 Class 4 Class 5 0.29 Class 3 Class 4 Class 5 15 0.29	V1	% Emergent			23	0.31	24	
V3 Interspersion % % % 0.29 Class 1	V2	% Aquatic			5		40	
V4 %OW <= 1.5ft 10 0.23	V3	Class 1 Class 2 Class 3 Class 4	%		% 15 15		% 20 20 60	
	V4	%OW <= 1.5ft			10	0.23	30	0.49
V5 Salinity (ppt) 5 1.00	V5	Salinity (ppt)			5	1.00	5	1.00
V6 Access Value 1.00 1.00 1.00 1.00 1.00 1.00	V6	Access Value			1.00	1.00	1.00	1.00

Project:

PBA-44 Fort Jackson/Boothville Diversion

Area II - Converts to brackish marsh, FWP - TY1

Future Witho	ut Project			Total	Cummulative
TY	Acres	X	HSI	HU's	HU's
0	63176		0.44		
1	63176		0.43	27116.33	27308.16
20	63176		0.32	20353.39	450962.34
		·			
				AAHU's =	23913.53

Future With P	roject			Total	Cummulative
TY	Acres	X	HSI	HU's	HU's
0	63176		0.44	27499.99	
1	63176			26546.75	27023.37
20	63176			30525.85	542189.72
				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

^{*} 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

M1.11		TY 0		TY 1		TY 10	
<u>Variable</u>		Value	SI	Value	SI	Value	Si
V1	% Emergent	98	0.98	98	0.98	98	0.9
V2	% Aquatic	20	0.44	20	0.44	20	0.4
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 100	1.00	% 100	1.00	% 100	1.0
V4	%OW <= 1.5ft	95	0.70	95	0.70	85	0.9
V5	Salinity (ppt)	7	1.00	7	1.00	8	1.0
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.0
	<u></u>	HSI =	0.85	HSI =	0.85	HSI =	0.8

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

Mant 1.1		TY 20					
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	85	0.87				
V2	% 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	% 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
	<u></u>	HSI =	0.85	HSI =	0.85	HSI =	0.88

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

		TY 20					
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	98	0.98				
V2	% Aquatic	40	0.58			7	
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				
	iL	Ht =	0.90	HSI =		HSI =	

Project: PBA-44 Fort Jackson/Boothville Diversion

Area III

Future Withou	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 P	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
			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	F\	WOP		WP		
Year	Acres	%	Acres	%	Net Acres	
0	3,824	26	2.024			
1	3,638	24	3,824	26		
2	3,460		3,805	26	168	
3	3,292	23	3,814	26	353	
4	3,131	22	3,823	26	531	
5	2,979	21	3,831	26	700	
6	-	20	3,840	26	861	
7	2,834	19	3,848	26	1,014	
8	2,696	18	3,857	26	1,161	
. 9	2,564	17	3,865	26	1,301	
-	2,439	16	3,874	26	1,435	
10	2,321	16	3,883	26	1,562	
11	2,208	15	3,891	26	1,684	
12	2,100	14	3,900	26	1,800	
13	1,998	13	3,908	26	1,911	
14	1,900	13	3,917	26	2,017	
15	1,808	12	3,925	26	2,118	
16	1,720	12	3,934	26	2,214	
17	1,636	11	3,943	26	2,307	
18	1,556	10	3,951	27	2,307	
19	1,480	10	3,960	27	2,393 2,479	
20	1,408	9	3,968	27	2,479	
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	
<u>Year</u>	Acres	%	Acres	%	Net Acres
0	14 472	22			
1	14,472	23	14,472	23	
	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	<u>-</u>
19	5,603	9	15,220	24	9,285
20	5,330	8	15,265	24	9,617
	3,230	J	13,203	4 4	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	FV	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	3,640	98	2 640	00	
1	3,640		3,640	98	
2	•	98	3,640	98	0
3	3,640	98	3,640	98	0
	3,640	98	3,640	98	0
4	3,640	98	3,640	98	0
5	3,640	98	3,640	98	0
6	3,640	98	3,640	98	0
7	3,640	98	3,640	98	0
8	3,640	98	3,640	98	0
.9	3,640	98	3,640	98	0
10	3,640	98	3,640	98	Õ
11	3,585	97	3,640	98	55
12	3,531	95	3,640	98	109
13	3,478	94	3,640	98	162
14	3,426	93	3,640	98	214
15	3,374	91	3,640	98	266
16	3,324	90	3,640	98	316
17	3,274	88	3,640	98	
18	3,224	87	3,640	98	366
19	3,176	86	•		416
20	3,128	85	3,640	98	464
20	3,120	83	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		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	0	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

		TYO		TY 1		TY 20	
<u>Variable</u>		Value	SI	Value	SI	Value	SI
V1	% Emergent	75	0.78	76	0.78	72	0.7
V2	% Aquatic	0.2	0.30	5	0.34	65	0.70
V 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	0.9
		HSI =	0.68	HSI =	0.70	HSI =	0.7

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

Increment 3

Future Without Project		uture Without Project		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	
			AAHII'e =	AAEE GE	

4455.66

Future With P	Future With Project		Vith Project		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			

			AAHU's	4907.20			

NET CHANGE IN AAHU'S DUE TO PROJECT	<u>.</u>
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:

TV-5/7 Marsh Island Shoreline Stabilization/Hydr. Rest.

Date:

(WVA conducted during PPL4 candidate evaluations)

Total Area: 6

Target	FV	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	5,034	75	5.03.4	7.5	
1		75 75	5,034	75 75	
	5,004	75 74	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	298
15	4,579	68	4,895	73	316
16	4,548	68	4,883	73	335
17	4,518	67	4,871	73	353
18	4,488	67	4,859	73	371
19	4,457	67	4,847	72	390
20	4,427	66	4,835	72	408
Total Years 1-20	94,310		98,980		
Average Annual	4,716	<u>.</u>	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:

<u> Area</u>	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:

Area 1

Condition: Future Without Project

Fresh...... 48402

Intermediate..

] [TY 0		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	و6.0	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
V 4	%OW <= 1.5ft	40	0.55	40	0.55	35	0.49
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 =	0.69	HSI =	0.69	HSI =	0.65

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...

		TY 0		TY 1		TY 20	
Variable		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	0.71
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	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 =	0.69	HSI =	0.69	HSI =	0.6

AAHU CALCULATION Project: PTE-26 Bayou Penchant Basin Plan

Area 1

Future Without Project			Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	48402	0.69	33555.17	
1	48402	0.69	33464.06	33509.61
20	48402	0.65	31258.31	614862.45
			AAUI!a =	32449.00

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
					020 100.20
-					
			<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 =	32418.60
Net Change (FWP - FWOP) =	582.53

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Fresh/Intermediate Marsh

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

Area 2

Marsh type acres:

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	0.34	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	o	1.00	o	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

Area 2

Marsh type acres:

Fresh..... 53949

Condition: Future With Project

Intermediate.

		TY 0		TY 1		TY 20	
Variable		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 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	o	1.00
<u></u>	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI ≖	0.78	HSI =	0.78	HSI =	0.78

Project: PTE-26 Bayou Penchant Basin Plan

Area 2

Future Witho	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

Future With P	roject		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

A. Future With Project AAHU's =

B. Future Without Project AAHU's =

Net Change (FWP - FWOP) = 42091.42 41460.07 631.35

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

		TY 0		TY 1		TY 20	
Variable	<u> </u>	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
V 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 <= 1.5ft	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>L</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

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	59	0.63	55.9	0.60
V2	% Aquatic	55	0.60	55	0.60	64	0.68
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 <= 1.5R	. 30	0.44	30	0.44	29	0.43
V5	Salinity (ppt) fresh intermediate	3	1.00	2	1.00	2	1.00
<u>V6</u>	Access Value	0.65	0.76	0.65	0.76	0.65	0.76
		HSI ≡	0.64	HSI ≡	0.64	HSI =	0.64

PTE-26 Bayou Penchant Basin Plan Area 3 Project:

Future Withou	ıt Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	16862	0.64	10738.60	
1	16862	0.64		10731.04
20	16862	0.62		201329.18
			AAHU's =	10603.01

Future With F	Project			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
<u> </u>					
				AAHU's	10733.34

NET CHANGE IN AAHU'S DUE TO PROJECT	; ا
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

		TY 0				TY 20	
Variable		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
<u>V4</u>	%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
V 4	%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

Project: PTE-26 Bayou Penchant Basin Plan

Area 4

Future Withou			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
					
				AAHU's =	7168.72

Future With Pr	roject		Total	Cummulative	
TY	TY Acres		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	
A. Future With Project AAHU's =	7247.27
B. Future Without Project AAHU's =	7168.72
Net Change (FWP - FWOP) =	78 - 5

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

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

Marsh type acres:

Area 5

Fresh...... 8,899

Condition: Future Without Project

Intermediate.

		TY 0		TY 1		TY 20	
Variable		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	0.8
V3	Interspersion : Class 1 Class 2 Class 3 Class 4 Class 5	% 60 30	0.80	% 60 30	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	o	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	<u>_</u>	H\$I =	0.83	HSI =	0.82	HSI =	1.00 0.82

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

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

Marsh type acres:

Area 5

Condition: Future With Project

Fresh..... Intermediate.

8899

	TY 0		TY 1		TY 20	
	Value	SI	Value	SI	Value	SI
% Emergent	83.4	0.85	83.3	0.85	82.1	0.84
% Aquatic	85	0.87	85	0.87	87	0.88
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
OW <= 1.5ft	10	0.21	10	0.21	15	0.27
Salinity (ppt) fresh intermediate	0	1.00	o	1.00	0	1.00
	Class 4 Class 5 OW <= 1.5ft Salinity (ppt) fresh	Class 4 10 Class 5 OW <= 1.5ft 10 Salinity (ppt) fresh 0 intermediate	Class 4 10 Class 5 OW <= 1.5ft 10 0.21 Salinity (ppt) fresh 0 1.00 intermediate	Class 4 10 10 Class 5 OW <= 1.5ft 10 0.21 10 Salinity (ppt) fresh 0 1.00 0 intermediate	Class 4 10 10 10	Class 4 10 10 10 10 10 10 10 10 10 10 10 10 10

Project: PTE-26 Bayou Penchant Basin Plan

Area 5

Future Witho	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
			AAHU's =	7324.61

Future With P			Total	Cummulative	
TY	Acres	Х	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
: 1					
·					
				AAHU's	7347.31

NET CHANGE IN AAHU'S DUE TO PROJECT A. Future With Project AAHU's =
B. Future Without Project AAHU's =
Net Change (FWP - FWOP) = 7347.31 7324.61 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	VOP	F	WP		
Year	Acres	%	Acres	%	Net Acres	
0	20.201					
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 9	62	133	
4	29,692	61	29,85 9	62	167	
5	29,520	61	29,721	61	201	
6	29,349	61	29,58 3	61	234	
_. 7	29,178	60	29,446	61.	267	
.8	29,00 9	60	29,309	61	300	
9	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	28,503	59	488	
15	27,852	58	28,370	59	519	
16	27,690	57	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	FV	VOP	F	FWP	
Year	Acres	%	Acres	%	Net Acres
0	44.404				
0	44,421	82	44,421	82	
1	44,359	82	44,39 0	82	31
2	44,297	82	44,343	82	47
3	44,235	82	44,297	82	62
4	44,173	82	44,250	82	78
5	44,111	82	44,204	82	9 3 ·
6	44,049	82	44,157	82	108
7	43,987	82	44,111	82 -	124
8	43,926	81	44,065	82 ·	139
9	43,864	81	44,018	82	154
10	43,803	81	43,972	82	169
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	VOP	F	WP		
Year	Acres	%	Acres	%	Net Acres	
0	0.060	50				
1	9,969	59	9,969	59		
	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	58	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	FV	VOP	F	FWP		
Year	Acres	%	Acres	%	Net Acres	
0	5,625	46	5 635	4.6	-	
1	5,592	46	5,625	46		
2	5,560		5,598	46	6	
3	•	45	5,571	45	11	
	5,528	45	5,545	45	17	
4	5,496	45	5,518	45	22	
5	5,464	45	5,492	45	28	
6	5,432	44	5,465	45	33	
7	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	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

Date:

January 24, 1997

Total Area:

Target	F	WOP]	FWP		
Year	Acres	%	Acres	%	Net Acres	
0	7,419	83.37	7,419	83		
1	7,412	83.29	7,419	83.30	1	
2	7,404	83	7,413 7,407	83	1	
3	7,397	83	7,407 7,401	83	3	
4	7,389	83			4	
5	7,382	83	7,395	83	6	
6	7,382	83	7,389	83	7	
7	7,373 7,367	83	7,383	83	9	
8	7,367 7,360		7,378	83	10	
9	•	83	7,372	83	12.	
	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
V1	% Emergent	62.8	0.67	62.4	0.66	55.9	0.60
V2	% Aquatic	65	0.69	65	0.69	60	0.64
∨3	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
∨5	Salinity (ppt) fresh intermediate	o	1.00	0	1.00	0	1.00
∨6	Access Value	1.00 HSI =	1.00 0.69	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 - Increment 1

Fresh..... 48402

Condition: Future With Project

Intermediate..

	7	TY 0		TY 1		TY 20	
Variable		Value	SI	Valu●	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
∨3	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
∨5	Salinity (ppt) fresh intermediate	0	1.00	0	1.00	0	1.00
∨6	Access Value	1.00	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 Without Project			Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	48402	0.69	33555.17	
1	48402	0.69	33464.06	33509.61
20	48402	0.65	31258.31	614862.45
			AAHU's =	32418.60

Future With Project			Total	Cummulative	
TY	Acres	x HSI	HU's	HU's	
0	48402	0.69	33555.17		
1	48402	0.69	33486.85	33521.01	
20	48402	0.67	32260.15	624596.46	
				i 1	
·					
			AAHU's	32905.87	

NET CHANGE IN AAHU'S DUE TO PROJECT	1
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...

	7	TYO		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
∨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
∨5	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 =	0.78	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 - Increment 1

Fresh..... 53949

Condition: Future With Project

Intermediate..

		TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	i 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
∨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	37	0.52
∨5	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 Witho	Future Without Project		Without Project		Total	Cummulative	
TY	Acres	x H	SI	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		

Future 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	41817.74	797292.89	
	-				
			AAHU's	41970.04	

NET CHANGE IN AAHU'S DUE TO PROJECT	<u> </u>
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

Area 3 - Increment 1

Marsh type acres:

Condition: Future Without Project

Fresh.....

Intermediate.. 16862

		TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	59.1	0.63	53.9	0.63	55.3	0.60
V2	% Aquatic	55	0.60	55	0.60	57	0.61
∨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
V 4	%OW <= 1.5ft	30	0.44	30	0.44	28	0.42
∨5	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
		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 - Increment 1

Fresh.....

Condition: Future With Project

Intermediate.. 16862

•] [TY 0		TY 1	TY 1		TY 20	
Variable	<u> </u>	Value	SI	Value	SI	Value	SI	
<u>V1</u>	% Emergent	59.1	0.63	58.9	0.63	55.7	0.60	
V2	% Aquatic	55	0.60	55	0.60	63	0.67	
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	29	0.43	
V5	Salinity (ppt) fresh intermediate	3	1.00	2	1.00	2	1.00	
V6	Access Value	0.65 HSI =	0.76	0.65	0.76	0.65	0.76 0.63	

AAHU CALCULATION

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

Future 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	10469.07	201329.18
			·		
				AAHU's =	10603.01

Future With 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	0.63	10691.14	203438.79
			·	·
			AAHU's	10708.49

NET CHANGE IN AAHU'S DUE TO PROJECT	<u> </u>
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	
Variable		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></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 - increment 1 Condition: Future With Project

	1 [TY 0		TY 1		TY 20	
Variable		Value	ŠI	Value	SI	Valu e	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
V 4	%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

Project: PTE-26 Jayou Penchant Basin Plan Area 4 - Increment 1

Future Witho	Future 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
			-	
			AAHU's =	7168.72

Future With P	roject		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	
, 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:

Fresh..... 8,899

Area 5 - Increment 1

Condition: Future Without Project

Intermediate..

		TY 0		TY 1		TY 20	
Variable		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
∨5	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 =	0.83	HSI =	0.82	HSI =	0.82

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project...... PTE-26 Bayou Penchant Basin Plan Area 5 - Increment 1

TY 0

1.00

HSI

Marsh type acres: Fresh.....

1.00

0.82

<u>TY 1</u>

1.00

HSI =

8899

Condition: Future With Project

Access Value

V6

Intermediate..

TY 20

1.00

HSI

1.00

0.83

SI Value Value SI Value डा Variable | 82.1 0.84 83.4 0.85 83.3 0.85 V1 % Emergent 87 0.88 0.87 85 0.87 85 **V2** % Aquatic **V3** Interspersion 60 0.80 60 0.80 Class 1 60 0.80 30 30 30 Class 2 Class 3 10 10 10 Class 4 Class 5 10 0.21 15 0.27 10 0.21 V4 %OW <= 1.5ft Salinity (ppt) V5 0 1.00 0 1.00 0 1.00 fresh intermediate

1.00

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
			-	
			= e'UHAA	7324.61

Future With Pr	uture 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	
				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	FV	VP	
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
. 11	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	FW	/OP	F	WP		
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	
9	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	19 9	
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	OP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	9,969	59	9,96 9	59	
1	9,936	59	9,93 9	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	57	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	WP	
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	22
5	5,464	45	5,492	45	28
6	5,432	44	5,4 65	45	33
7	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 9
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	FWP		
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	<i>i</i> 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..... Intermediate.

2782

Variable.		TY 0		TY1			
Variable		Value	SI	Value		TY 20	
V1	% Emergent	_		Value	<u>sı</u>	Value	SI
		7	0.16	6	0.15	1	0.1
V2	% Aquatic	10	0.19	10	0.10		
V3	Interspersion	94			0.19	15	0.2
Class 1 Class 2 Class 3	0.20		%	0.20	%	0.2	
	Class 4 Class 5	100		100		100	
V4	%OW <= 1.5ft	6 6	0.84				
√5	Solinity (n=4)	- 50	0.04	66	0.84	70	0.8
	Salinity (ppt) fresh intermediate	2	1.00	2	1.00	2	1.00
V6	Access Value	1.00	1.00	1.00			

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

0.31

Project..... PTV-19b Sediment Trapping at the Jaws

Marsh type acres:

Condition: Future With Project

Fresh.....

2782

Intermediate.

		TY 0		73/			
Variable	_l	Value	SI	TY ·	<u> </u>	TY 20	
				Value	SI	Value	SI
V1	% Emergent	7	0.16	10	0.19		- 7
V2	% Aquatic	10	0.40			73	0.
			0.19	20	0.28	70	0.1
∨3	Interspersion Class 1 Class 2	%	0.20	%	0.40	% 50	0.7
	Class 3 Class 4 Class 5	100		10 0		25 25	
V4	%OW <= 1.5R	6 6	0.84				
\			<u> </u>	63	0.81	75	0.9
V5	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	
	ا	HSI =	0.31	HSI =	0.36	HSI =	1.00 0.80

AAHU CALCULATION Project: PTV-19b Sediment Trapping at the Jaws

Future Without 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
			AAHU's =	823.49

Future With I	uture With Project		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
			AAHU'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	FW	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	182	7	182	7	
1	173	6	269	10	96
2	165	6	361	13	196
3	157	6	453	16	296
4	149	5	545	20	396
5	141	5	637	23	497
6	133	5	730	26	597
7	125	4	822	30	697
8	117	4	914	33 .	<i>7</i> 9 7
9	109	4	1,006	36	897
10	101	4	1,098	39	997
11	92	3	1,190	43	1,098
12	84	3	1,282	46	1,198
13	76	3	1,374	49	1,298
14	68		1,466	53	/ 1,398
15	60	2 2	1,558	56	1,498
16	52	2	1,651	59	1,598
17	44	2	1,743	63	1,699
18	36	1	1,835	66	1,799
19	28	1	1,927	69	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

AAHU CALCULATION Project: PTV-19b Sediment Trapping at the Jaws

Future Without 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
			AAHU's =	823.49

Future With I	Future With Project		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
,				
			AAHU'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

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project..... PTV-10/XTV-25 Oaks/Avery Canal Hydr. Rest.

Marsh type acres:

1.00

1.00

0.58

1.00

HSI

Increment 1

Fresh.....

Condition: Future Without Project

Salinity (ppt) fresh

intermediate

Access Value

V5

V6

Intermediate.

3348

1.00

1.00

0.58

1.00

HSI

				TY 1		TY 3	
Variable		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

1.00

1.00

0.58

1.00

Project...... PTV-10/XTV-25 Oaks/Avery Canal Hydr. Rest.

HSI

		TY 20					
<u>Variable</u>		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				
∨5	Salinity (ppt) fresh intermediate	4	1.00				
<u></u>	Access Value	1.00	1.00				
		HSI =	0.56	HSI =		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

		TY 0				TY 3	Y 3	
Variable		Value	SI	Value	SI	Valu●	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	
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	
		HSI =	0.58	HSI =	0.59	HSI =	0.62	

Project..... PTV-10/XTV-25 Oaks/Avery Canal Hydr. Rest.

F	WP
Γ	
	Var
느	

······		TY 20					
/ariable		Value	SI	Value	SI	Value	ŞI
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				
∨5	Salinity (ppt) fresh intermediate	4	1.00				
V6	Access Value	1.00	1.00				
		HSI =	0.65	HSI =		HSI =	

AAHU CALCULATION

Project:

PTV-10/XTV-25 Oaks/Avery Canal Hydr. Rest.

Increment 1

Future Without 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
]:	$\Delta \Delta HII'e =$	1921.42

AAHU's = 1921.42

Future With P	roject		Total	Cummulative
TY	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
				·
			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	get FWOP FWP				
Year	Acres	%	Acres	%	Net Acres
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	72	69
8	2,305	69	2,390	71	75.
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	6 6	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	0.85	82	0.84
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 =	0.62	HSI =	0.62	HSI =	0.62

Project..... PTV-10/XTV-25 Oaks/Avery Canal Hydro. Rest. FWOP

		TY 20					
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	76	0.78				
V2	% Aquatic	4	0.14	Marin		,	
∨3	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				
∨6	Access Value	1.00	1.00			İ	
	1	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:

Condition: Future With Project

Fresh.....

Intermediate.

5365

		TY 0		TY 1		TY 3	
Variable	<u> </u>	Value	SI	Valu●	SI	Value	SI
V1	% Emergent	83	U.85	83	0.85	83	0.85
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
V 4	%OW <= 1.5ft	80	1.00	80	1.00	80	1.00
∨5	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
	L	H\$I =	0.62	HSI =	0.63	HSI =	0.6€

Project..... PTV-10/XTV-25 Oaks/Avery Canal Hydro. Rest.

۲	VVI	•
г		_

% Emergent % Aquatic	TY 20 Value 79 19	0.81 0.27	Value	SI	Value	SI
% Aquatic					,	
	19	0.27				
Interspersion	t					
Class 1 Class 2 Class 3 Class 4 Class 5	% 40 25 25 10	0.67	%		%	
60W <= 1.5ft	80	1.00				
Salinity (ppt) fresh intermediate	3	1.00				
Access Value	1.00	1.00				
	Class 5 OW <= 1.5ft Salinity (ppt) fresh intermediate	Class 5 OW <= 1.5ft 80 Salinity (ppt) fresh intermediate 3 Access Value 1.00	Class 5 OW <= 1.5ft 80 1.00 Salinity (ppt) fresh 1.00 intermediate 3	Class 5 OW <= 1.5ft 80 1.00 Salinity (ppt)	Class 5 OW <= 1.5ft 80 1.00 Salinity (ppt) fresh 1.00 intermediate 3 Access Value 1.00 1.00	Class 5 OW <= 1.5ft 80 1.00 Salinity (ppt) fresh 1.00 1.00 Access Value 1.00 1.00

AAHU CALCULATION

Project: PTV-10/XTV-25 Oaks/Avery Canal Hydro. Rest.

Future Withou	ıt Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	5365	0.62	3316.20	<u> </u>
1	536 5	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 Pi	roject		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	536 5	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
8	4,317	81	4,405	82	70
9	4,298	80	•		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	77	4,273	80	143
20	4,093	77	4,261	79	149
Total Years 1-20	85,403		87,440		
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

Area 1

Condition: Future Without Project

		TY 0TY 1			TY 20		
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	68	0.71	67	0.70	61	0.65
V2	% Aquatic	20	0.44	20	0.44	15	0.41
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
V 4	%OW <= 1.5ft	50	0.74	50	0.74	40	0.61
∨5	Salinity (ppt)	8	1.00	8	1.00	9	1.00
<u>∨6</u>	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	Ļ	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

		TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	68	0.71	68	0.71	67	0.70
V2	% Aquatic	20	0.44	25	0.48	60	0.72
∨3	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
V 4	%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
		HSI =	0.70	HSI =	0.71	HSI =	0.76

AAHU CALCULATION

Project: PBA-48a Myrtle Grove Siphon Enlargement

Area 1

Future Without Project			Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	22627	0.70	15805.73	
1	22627	0.69	15713.12	15759.43
20	22627	0.65	14658.36	288529.06
			AAHU's =	15214.42

AAHU	<u>s = </u>	10	<u> </u>

Future With Project			<u>.</u>	Total	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	
Variable		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
∨3	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 0.63	1.00	1.00	1.00	1.00 0.5 :

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project...... PBA-48a Miss. River Diversion at Wilkinson Canal Marsh type acres........ 13633

Area 2

		TY 0		TY 1		TY 20		
Variable		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	
∨5	Salinity (ppt)	6	1.00	5	1.00	5	1.00	
∨6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00	
		HSI ≖	0.63	HSI =	0.64	H\$1 =	0.6	

AAHU CALCULATION

PBA-48a Miss. River Diversion at Wilkinson Canal Project: Area 2

uture Withou	t Project		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	13633	0.63	8655.22	
1	13633	0.63	8591.02	8623.12
20	13633	0.53	7183.11	149854.21
			AAHU's =	7923.87

Future With P	roject	·	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
			·	
		 	AAHU's	8509.93

NET CHANGE IN AAHU'S DUE TO PROJECT 8509.93

A. Future With Project AAHU's =
B. Future Without Project AAHU's =
Net Change (FWP - FWOP) = 7923.87 586.07

AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PBA-48a Myrtle Grove Siphon Enlargement - Area 1

Date:

February 6, 1997

Total Area:

22,627

Target	FV	VOP	F	WP	
<u>Year</u>	Acres	%	Acres	%	Net Acres
0	15,345	68	16 246	60	
1	15,267	67	15,345	68	
2	15,207		15,322	68	54
3		67	15,298	68	108
	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	6 6	729
15	14,221	63	14,99 9	66	779
16	14,149	63	14,977	6 6	828
17	14,077	62	14,954	6 6	877
18	14,006	62	14,931	6 6	925
19	13,935	62	14,908	6 6	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:

13,633

Target	FW	OP	FV	VP	_
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	6,38 8	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
9	5,593	41	6,094	45	501
10	5,488	40	6,03 6	44	549
11	5,385	39	5,980	44	595
12	5,283	39	5,924	43	640
13	5,184	38	5,868	43	, 684
14	5,087	37	5,813	43	726
15	4,991	37	5,758	42	767
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

		TY 0		TY 1		TY 10	
Variable		Valu●	SI	Value	SI	Value	SI
V1	% Emergent	1	0.11	1	0.11	2	0.12
V2	% Aquatic	19	0.27	19	0.27	23	0.3
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	100	0.20	% 100	0.20	% 2 98	0.22
V 4	%OW <= 1.5ft	10	0.21	10	0.21	121	0.24
∨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
	<u></u>	HSI =	0.24	HSI =	0.24	HSI =	0.25

Project..... XMR-10b Channel Armor Gap West

	1 [TY 20					,
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	3	0.13				
V2	% Aquatio	30	0.37				
V 3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 3 97	0.22	%		, * %	
V 4	%OW <= 1.5ft	15	0.27				
∨5	Salinity (ppt) fresh intermediate	2	1.00				
∨6	Access Value	1.00	1.00				
		HSI =	0.27	HSI =		HSI =	

03/28/97

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		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
V3	Interspersion Class 1 Class 2 Class 3	%	0.20	%	0.20	% 6	0.25
	Class 4 Class 5	100		100		94	
V 4	%OW <= 1.5ft	10	0.21	10	0.21	25	0.38
∨5	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

		TY 20					
Variable		Value	SI	Value	SI	Value	SI
<u>V1</u>	% Emergent	16	0.24				·
V2	% Aquatic	80	0.82			i	
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 16 84	0.33	%		%	
V4	%OW <= 1.5ft	40	0.55				
V5	Salinity (ppt) fresh intermediate	1	1.00	•			
V6_	Access Value	1.00	1.00				
		HSI =	0.44	HSI =		HSI =	

Project: XMR-10b Channel Armor Gap West

Future Withou	t 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	0.25	1221.80	10683.12
20	4800	0.27	1306.66	12642.33
			AAHU's =	1223.88

Future With Pr	oject		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
	<u> </u>			
<u> </u>			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:

4,800

Target	FV	VOP	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	140	3	70
5	73	2	167	3	94
6	7 7	2	193	4	116
7	80	2	220	5	140
8	83	2	247	5	164
9	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 B-Area 1

Fresh.....

Condition: Future Without Project

Intermediate...

5082

		TY 0		TY 1	1 TY 20		
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	74	0.77	73	0.76	56	0.60
V2	% Aquatic	25	0.33	25	0.33	20	0.28
V 3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	30 40 30	0.6 6	% 30 40 30	0.68	% 25 40 25 10	0.61
V 4	%OW <= 1.5ft	70	0.89	70	0.89	60	0.78
∨5	Salinity (ppt) fresh intermediate	3	1.00	3	1.00	4	1,00
V 6	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.

Aiternative B-Area 1

Fresh.....

Condition: Future With Project

Intermediate..

5082

% Emergent % Aquatic	74 25	0.77	Value 73	SI 0.76	TY 20 Value	SI 0.69
% Aquatic			73	0.76	66	0.69
	25					0.09
		0.33	35	0.42	60	0.64
Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 30 40 30	0.68	% 30 40 30	0.68	% 30 35 30 5	0.64
60W <= 1.5ft	70	0.89	70	0.89	65	0.83
Salinity (ppt) fresh intermediate	3	1.00	2	1.00	2	1.00
Access Value	- 0.982	0.99	0.812	0.87	0.812	0.87
	Class 2 Class 3 Class 4 Class 5 OW <= 1.5ft Salinity (ppt) fresh intermediate	Class 2 40 Class 3 30 Class 4 Class 5 OW <= 1.5ft 70 Salinity (ppt) fresh	Class 2 Class 3 Class 4 Class 5 OW <= 1.5ft 70 0.89 Salinity (ppt) fresh intermediate 3 Access Value	Class 2 40 40 40 Class 3 30 30 30 Class 4 Class 5 70 0.89 70 Salinity (ppt) fresh intermediate 3 2 Access Value - 0.982 0.99 0.812	Class 2 40 40 30 30 Class 3 30 Class 4 Class 5 70 0.89 70 0.89 70 0.89 Salinity (ppt) fresh 1.00 1.00 intermediate 3 2 Access Value - 0.982 0.99 0.812 0.87	Class 2 40 40 35 Class 3 30 30 30 Class 4 5 5 5 cOW <= 1.5ft

AAHU CALCULATION

Project: TE-7f Lake Boudreaux Freshwater Introduction Alternative B-Area 1

Future Withou	t Project	ļ	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
	_			
		7		
			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]
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

		TY 0		TY 1	1	TY 20	 -
Vari able		Value	SI	Valu●	SI	Value	SI
V1	% Emergent	77	0.79	78	0.78	68	0.71
V2	% Aquatic	10	0.37	10	0.37	8	0.36
∨3	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
V 4	%OW <= 1.5ft	70	1.00	70	1.00	60	0.87
V 5	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

		TY 0		TY 1		TY 20	
Variable.		Value	SI	Value	SI	Value	SI
V1	% Emergent	77	0.79	76	0.78	; 72	0.75
V2	% Aquate	10	0.37	15	0.41	35	0.55
V3	Interspersions 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
V 4	%OW <= 1.5ft	70	1.00	70	1.00	65	0.94
V 5	Salinity (ppt)	4	1.00	3	1.00	3	1.00
∨6	Access Value	0.860	0.87	0.639	0.68	0.639	0.68
		HSI =	0.74	HSI =	0.71	HSI =	0.73

AAHU CALCULATION

Project: TE-7f Lake Boudreaux Freshwater Introduction

Alternative B-Area 2

Future Witho	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	Project		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
1			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:

5,082

Target	FW	OP	F	WP		
Year	Acres	%	Acres	%	Net Acres	
				4		
0	3,755	74	3,755	74		
1	3,702	73	3,734	73	32	
2	3,6 49	72	3,713	73	63	
3	3,59 8	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	182	
7	3,39 8	67	3,60 9	71	210	
8	3,350	66	3,5 88	71	238	
9	3,303	65	3,56 8	70	265	
10	3,256	64	3,54 8	70	292	
11	3,210	63	3,528	69	318	
12	3,164	62	3,50 8	69	343	
13	3,120	61	3,488	69	36 8	
14	3,075	61	3,468	68	393	
15	3,032	60	3,448	6 8	416	
16	2,989	59	3,429	67	440	
17	2,947	58	3,409	67	463	
18	2,905	57	3,390	67	. 485	
19	2,864	56	3,371	6 6	507	
20	2,823	56	3,352	6 6	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:

2,140

Target	FV	VOP	F'	WP		
Year	Acres	%	Acres	%	Net Acres	
0	1,640	77	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	76	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	1,60 6	75	34	
8	1,563	73	1,601	75	3 8	
9	1,554	73 ·	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	5 6	
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 .	
18	1,472	69	1,554	73	82 ⁷	
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 Alternative A-Area 1

Marsh type acres: Fresh.....

Condition: Future Without Project

Intermediate.. 4122

		TY 0		TY 1		TY 20	
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
V 4	%OW <= 1.5ft	70	0.89	70	0.89	60	0.78
∨5	Salinity (ppt) . fresh intermediate	3	1.00	3	1.00	4	1.00
∨6	Access Value	0.995	1.00	0.995	1.00	0.995	1.00
		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

	7 (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
∨3	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
∨6	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		ure Without Project		Cummulative	
TY	Acres	x HSI	Total 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	
ļ					
			AAHU's =	2275.48	

Future With 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

Marsh type acres......

2762

Alternative A-Area 2

Condition: Future Without Project

		TY 0		TY 1	TY 1		
<u>Variable</u>		Value	SI	Value	SI	Value	SI
V1	% Emergent	81	0.83	80	0.82	71	0.74
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
∨5	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
	<u>.</u>	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

	TY0 TY1			TY 20			
Variable		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
V 3	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	0.58 5	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 Without Project		re Without Project		Cummulative	
TY	Acres	x HSI	Total HU's	HU's	
0	2762	0.74	2039.15		
1	2762	0.73	2029.38	2034.26	
20	2762	0.69	1896.26	37293.55	
			AAHU's =	1966.39	

Future With P	roject		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	2762	0.74	2039.15	
1	2762	0.72	1991.75	2015.45
20	2762	0.72	1990.35	37829.99
<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:

4,122

Target	FV	VOP	F	FWP		
<u>Year</u>	Acres	%	Acres	%	Net Acres	
0	2,314	5 6	2,314	56	••	
1	2,273	5 5	2,294	56	20	
2	2,233	54	2,273	55	40	
3	2,193	53	2,253	55	60	
4	2,154	52	2,233	54	79	
5	2,116	51	2,213	54	97	
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	30 6	
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:

2,762

Target	FV	VOP	F	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	79	2,202	80	16	
4	2,173	79	2,194	79	21	
5	2,160	78	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	78	41	
9	2,109	76	2,155	78	46	
10	2,096	76	2,147	78	51	
11	2,083	75	2,139	<i>77</i>	56	
12	2,071	75	2,132	77	61	
13	2,058	75	2,124	77	6 6	
14	2,046	74	2,116	7 7	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	1,9 85	72	2,079	75	93	
20	1,974	71	2,071	75	9 8	
Total Years 1-20	41,819		42,875			
Average Annual	2,091		2,144		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 Saline Brackish	AAHU' s 81.93 48.19	TOTAL BENEFITS = 130 AAHUs
	.0.70	

Increment 2 - CW-6ii

Area	_AAHU's	
Saline	85.32	TOTAL BENEFITS = 195 AAHUS
Bracki sh	109.25	100 AA1105

Increment 3 - CW-6iii

Area	_AAHU's	
Salin e Brackish	163.85	TOTAL BENEFITS = 260 AAHUs
DIACKISH	9 6 .3 9	

increment 4 - CW-6iv

Area	_AAHU's	
Salin e	170.63	TOTAL BENEFITS = 390 AAHUs
Brackish	218. 50	

Increment 5 - CW-6v

<u>Area</u>	AAHU's	
Salin e Brackish	131.85 168.68	TOTAL BENEFITS = 301 AAHUs
	100.00	

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	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 6 0 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	
	Access Value	1.00	1.00	1.00	1.00	1.00	1.00	
	<u></u>	HSI =	0.60	HSI =	0.60	HSI =	0.56	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project..... CW-6 Lafourche Dedicated Dredging

352 Marsh type acres.....

Increment 1

		TY 0		TY 1		TY 8	
Variabie		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	0.6 8	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 =	0.64	HSI =	0.87

Project..... CW-6 Lafourche Dedicated Dredging

		TY 20				1	
/ariable		Value	SI	Value	SI	Value	SI
V1	% Emergent	96	0.96		i !		
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				
∨5	Salinity (ppt)	16	1.00				············
V6	Access Value	1.00	1.00				· <u> </u>
		HSI =	0.86	HSI =		HSI ≖	

Project: CW-6 Lafourche Dedicated Dredging Increment 1

Future Without Project			Total	Cummulative	
TY.	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
ļ				
<u> </u>				
<u> </u>			AAIUU	202.24
		L	AAHU's	285.81

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Filture With Project AAHU's =	285.81
B. F ure 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	24
2	158	45	207	59	24
3	158	45	231	6 6	49 72
4	157	45	255	72	73
5	156	44	278	72 79	98 122
6	155	44	302	86	
7	154	44	. 326	92	147 171
8	153	44	349	99	171
9	153	43	348	99	196
10	152	43	347	9 9	196
11	151	43	346	9 8	195
12	150	43	345	9 8	195
13	149	42	345	9 8	195
14	149	42	344	9 8	195
15	148	42	343	9 7	195
16	147	42	342	97	195
17	146	42	341	97	195
18	146	41	340	97	195
19	145	41	339	96	193
20	144	41	338	9 6	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		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	0.6 8	30	0.49
∨5	Salinity (ppt)	11	0.85	11	0.85	11	0.85
V6	Access Value	1.00	1.00	1.00	1.00	1.00	
		HSI =	0.47	HSI =	0.47	HSI =	0.41

WETLAND VALUE ASSESSMENT COMMUNITY MODEL **Brackish Marsh**

Project..... CW-6 Lafourche Dedicated Dredging

406 Marsh type acres.....

increment 1

*****		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
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
∨5	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					
Variabl e	<u>-</u>	Value	SI	Value	SI	Value	SI
V1	% Emergent	94	0.95				
V2	% Aquatic	0	0.30				
∨3	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				
∨6	Access Value	1.00	1.00				
	<u></u>	HSI =	0.78	HSI =		HSI =	

AAHU CALCULATION

Project: CW-6 Lafourche Dedicated Dredging Increment 1

Future Withou	ut Project	1	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	191.08 3390.82
	-		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	
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

Daie:

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	30	0
2	119	29	119	29	0
3	117	29	117	29	0
4	115	28	115	28	0
5	113	28	113	28	0
6	111	27 °	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	9 6	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	8 8	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

		TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	\$I
V1	% Emergent	45	0.51	45	0.51	41	0.47
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	% 20 60 20	0.40	% 15 80 25	0.38
V4	%OW <= 1.5R	45	0.68	45	0.68	30	0.49
V 5	Salinity (ppt)	16	1.00	16	1.00	16	1.00
· ∨6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	L_	H SI =	0.60	HSI =	0.60	H\$1 =	0.54

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	SI	Value	SI (Value	31
V1	% Emergent	45	0.51	58	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 0	1.00
V4	%OW <= 1.5R	45	0.68	. 45	0.68	100	0.50
V6	Salinity (ppt)	16	1.00	16	1.00	16	1.00
∨6	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	% 10 0	1.00	%	·	%	
V 4	%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 Withou	t Project		Total	Cummulative
TY	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	0.66	231.29	220.61
5	352	0.85	300.48	1063.53
20	352	0.85	299.51	4499.91
			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	8 6	147
5	156	44	339	96	183
6	155	44	338	96	183
7	154	44	337	96	183
8	153	44	337	9 6	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	149	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	<i>:</i>	6,321		:
Average Annual	152		316		165

WE LAND VALUE ASSESSMENT COMMUNITY MC DEL Brackish Marsh

Project..... CW-6 Lafourche Dedicated Dredging Increment 2

Marsh type acres......

807

Condition: Future Without Project

		TY 0		TY 1		TY 20	
Variable Variable		Valu e	SI	Value	SI	Value	SI
V1	% Emergent	33	0.40	32	0.39	23	0.31
∨2	% Aquatic	o	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
∨5	Salinity (ppt)	11	0.85	11	0.85	11	0.85
∨6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	(L_	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 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
· ∨6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.49	HSI =	0.48	HSI =	0.4

Project..... CW-6 Lafourche Dedicated Dredging FWP

		TY 20					
Variable		Value	SI	Valu e	SI	Value	ŚI
V1	% Emergent	92	0.93				
V2	% Aquatic	0	0.30				
∨3	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 2

iture Without Project		Without Project		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
				364 31

Future With	rolect		Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	807	0.49	391.54	
1	807	0.48	387.67	389.60
8	807	0.49	394.04	1954.27
20	807	0.77	624.15	7127.36
·				
<u> </u>			AAHU's	473.56

NET CHANGE IN AAHU'S DUE TO PROJECT	Ī
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	FV	VOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	265	33	265	33	
1	260	32	260	32	0
2	256	32	256	32	0
3	251	31	251	31	0
4	247	31	247	31	0
5	243	30	243	30	(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	3 <i>5</i> 3
16	200	25	587	73	387
17	196	24	618	77	421
18	193	24	648	80	455
19	190	24	692	86	502
20	186	23	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

Variable		TY 0		TY1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	45	0.51	45	0.51	41	0.47
∨2	% 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
<u> </u>	Salinity (ppt)	16	1.00	16	1.00	16	1.00
∨6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	L	HSI =	0.60	HSI =	0.60	H\$I ≥	0.56

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project..... CW-6 Lafourche Dedicated Dredging

Marsh type acres......

704

Increment 3

Variable		TYO		TY 1		TY 8	
		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	% 10 0	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

Project..... CW-6 Lafourche Dedicated Dredging FWP

		TY 20					
Variable	ļC	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	% 10 0	1.00	%		%	
V4	%OW <= 1.5ft	95	0.63				
V <u>5</u>	Salinity (ppt)	16	1.00				
V6	Access Value	1.00	1.00				
		HSI =	0.86	HSI =		HSI =	

AAHU CALCULATION

Project: CW-6 Lafourche Dedicated Dredging Increment 3

Future Without Project		ect		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	
ļ					
					
 					
			AAHU's =	407.77	

Future With P	With Project		Total-	Cummulative	
TY	Acres	x HSI	HU's	H U '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	
				,	
			AAHU's	571.62	

NET CHANGE IN AAHU'S DUE TO PROJECT	1
A. Future With Project AAHU's =	571.62
B. Futu. 3 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	320	45	320	45	
1	318	45	367	52	49
2	317	45	415	59	98
3	315	45	462	6 6	147
4	313	. 45	50 9	72	19 6
5	312	44	557	79	245
6	310	44	604	8 6	294.
7	308	44	651	92	343
8	307	44	69 8	9 9	391
9	3 05	43	696	9 9	391
10	304	43	695	9 9	391
11	302	43	693	98	391
12	30 0	43	691	98	390
13	29 9	42	689	98	390
14	297 .	42	687	98	390
15	296	42	68 6	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

Variable	}	TY 0		TY 1		7/20	
		Value	SI	Value	SI	TY 20	
V1	% Emergent	30	0.37			Value	SI
V2	% Aquatic			30	0.37	21	0.2
		0	0.30	0	0.30		0.3
V3	Interspersion Class 1 Class 2 Class 3	%	0.28	%	0.28	%	0.2
	Class 4 Class 5	40 60		40 60		30 70	
V4	%OW <= 1.5ft	45	0.68				
∨ 5	Salinity (ppt)			45	0.68	30	0.49
V6		11	0.85	11	0.85	11	0.85
¥0	Access Value	1.00 HSI =	1.00	1.00	1.00	1.00	1.00
	<u> </u>		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

Condition: Future With Project

<u>Variable</u>		TY 0		TY 1	TY 1		
		Value [SI	Value	SI	TY 9	
V1	% Emergent	30	0.37	30			SI
V2	% Aguara			30	0.37	32	' 0.3
	% Aquatic	0	0.30	0	0.30		0.3
V3	Interspersion Class 1 Class 2	%	0.28	%	0.28	% 8	0.3
	Class 3 Class 4 Class 5	40 60		40 60		32 60	
V4	%OW <= 1.5ft	45	0.68	45	0.00		
V5	Salinity (ppt)	11			0.68	40	0.61
V6	Access Value		0.85	11	0.85	11	0.85
	, recess value	1.00 HSI =	0.47	1.00	1.00 0.47	1.00	1.00

Project..... CW-6 Lafourche Dedicated Dredging FWP_____

		TY 20					
Variable	<u> </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	10 0	1.00	%		%	
V4	%OW <= 1.5R	95	0.70				
<u> </u>	Salinity (ppt)	11	0.85				
V6	Access Value	1.00	1.00				
	<u></u>	HSI ≥	0.78	HSI ≥		HSI =	

AAHU CALCULATION

Project: CW-6 Lafourche Dedicated Dredging Increment 3

Future Withou	t 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
1				
			AAHU's =	358.19

Future With P	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	L
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	29	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	27	217	27	0
8	214	26	214	26	0
9	210	26	258	32	48
10	206	25	302	37	9 6
11 .	203	25	346	43	143
12	19 9	25	390	48	191
13	196	24	433	53	238
14	192	24	477	59	284
15	<u>`</u> 189	23	520	64	<i>3</i> 31
16	18 6	23	563	69	377
17	182	22	6 06	75	423
18	179	22	648	80	469
19	176	22	704	87	528
20	173	21	767	94	594
Total Years 1-20	4,111		7,834		
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

	<u> </u>	TY 0		TY 1		TY 20	
<u>Variable</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 <= 1.5R	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 =	0.56

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project...... CW-6 Lafourche Dedicated Dredging

Marsh type acres......

704

Increment 4

Condition: Future With Project

	1 [TY 0		TY 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
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 20 60 20	0.40	% 16 17 50 17	0.50	% 10 0	1.00
V 4	%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

	7	TY 20]	
Variabl e		Value	SI	Value	SI	Value	SI
V1	% Emergent	93	0.94				
∨2	% Aquatic	0	0.30				
∨3 ·	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	100	1.00	%		%	
V 4	%OW <= 1.5ft	95	0.63				
V5	Salinity (ppt)	16	1.00				
V6	Access Value	1.00	1.00				
	L	HSI =	0.85	HSI =		HSI =	

AAHU CALCULATION

Project: CW-6 Lafourche Dedicated Dredging Increment 4

Future Withou	ut 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	

Future With Pr	uture With Project				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			
			AAHU's	578.41			

NET CHANGE IN AAHU'S DUE TO PROJECT	7
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	WOP	F	WP	
Year	Acres	%	Acres	%	Net Acres
0	320	45	320	45	
1	318	45	392	56	73
2	317	45	463	6 6	147
3	315	45	535	76	220
4	313	45	607	8 6	293
5	312	44	679	97	368
6	310	44	678	9 6	368
7	308	44	676	9 6	367
8	307	44	674	9 6	367
9	305	43	672	9 6	367
10	304	43	671	95	367
11	302	43	669	95	367
12	300	43	667	95	367
13	299	42	665	95	3 66
14	297	42	664	94	366
15	296	42	662	94 7	366
16	294	42	660	94	366
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 De ated Dredging

Marsh type acres....... 1,614

Increment 4

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
V3	Interspersion Class 1 Class 2 Class 3 Class 4	% 40 60	0.28	% 40 60	0.28	% 30 70	0.26
V4	Class 5 %OW <= 1.5ft	45	0.68	45	0.68	30	0.49
V5	Salinity (ppt)	11	0.85	11	0.85	11	0.85
∨6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	<u></u>	HSI =	0.49	HSI =	0.48	H SI =	0.42

WETLAND VALUE ASSESSMENT COMMUNITY MODEL **Brackish Marsh**

Project..... CW-6 Lafourche Dedicated Dredging

Marsh type acres...... 1614

Increment 4

Condition: Future With Project

		TY 0		TY 1		TY 6	
Variable		Value	SI	Value	sı	Value [SI
V1	% Emergent	33	0.40	32	0.39	34	0.41
V2	% Aquatic	o	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	0.6 8	45	0.6 8	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					
√ariable		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	% 10 0	1.00	%		%	
V4	%OW <= 1.5ft	95	0.70				
V5	Salinity (ppt)	11	0.85				
∨ 6	Access Value	1.00	1.00				
		HSI =	0.77	HSI =	ĺ	HSI ≖	

AAHU CALCULATION

Project: CW-6 Lafourche Dedicated Dredging Increment 4

Future Withou	ıt Project	ĺ	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
7.				
				
,	***************************************	-	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	0
3	503	31	503	31	ŏ
4	494	31	494	31	ŏ
5	485	30	485	30	(0)
6	477	30	549	34	72
7	469	29	612	38	144
8	460	29	675	42	215
9	452	28	738	46	286
10	444	28	801	50	357
11	437	27	864	54	427
12	429	27	926	57	497
13	422	26	988	61	567
14	414	26	1,050	65	636
15	407	25	1,112	69	705
16	400	25	1,174	73	774
17	393	24	1,235	7 7	842
18	386	24	1,296	80	910
19	379	24	1,383	8 6	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		Value	SI	Value	SI	Value	SI
V1	% Emergent	45	0.51	45	0.51	41	0.4
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	% 20 60 20	0.40	% 15 60 25	0.3
V4	%OW <= 1.5ft	45	0.68	45	0.68	30	0.4
V5	Salinity (ppt)	16	1.00	16	1.00	16	1.0
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.0
		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.....

544

Increment 5

Condition: Future With Project

		TYO		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	0_	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	% 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
	L_	HSI =	0.60	HSI =	0.66	HSI =	0.85

Project..... CW-6 Lafourche Dedicated Dredging

		TY 20					
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	93	0.94		;		
V2	% Aquatic	0	0.30				_
∨3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 10 0	1.00	%		%	;
V4	%OW <= 1.5ft	95	0.63				
V5	Salinity (ppt)	16	1.00				
V6	Access Value	1.00	1.00				
	<u> </u>	HSI =	0.85	HSI =		HSI =	

AAHU CALCULATION

Project:	CW-6 Lafourche	Dedicated	Dredging
	Increment 5		

Future Witho	Future Without Project		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 F	Future With Project		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	6 6	113
3	243	45	413	76	170
4	242	· 44	468	8 6	227
5	241	44	524	96	283
6	239	44	522	9 6	283
7	238	44	521	9 6	283
8	237	44	520	9 6	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
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

Marsh type acres......

1,246

Increment 5

Condition: Future Without Project

		TY 0		TY 1		TY 20	
<u>Variable</u>		Value	SI	Value	SI	Value	SI
V1	% Emergent	33	0.40	32	0.39	23	0.31
∨2	% Aquatic	0	0.30	0	0.30	0	0.30
∨3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 40 60	0.28	% 40 60	0.28	% 30 70	0.26
<u></u>	%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 ≖	0.49	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

Condition: Future With Project

	7	TY 0		TY 1	·	TY 6	
Variable	<u> </u>	Value	SI	Value	SI	Value	SI
<u>V1</u>	% 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
	L	HSI =	0.49	HSI =	0.48	HSI =	0.49

Project..... CW-6 Lafourche Dedicated Dredging

		TY 20					
Variable	!	Value	SI	Value	SI	Value	SI
V1	% Emergent	92	0.93				
∨2	% Aquatic	0	0.30				
∨3	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				
∨6	Access Value	1.00	1.00				-
		HSI =	0.77	HSI =		HSI =	*************

Project: CW-6 Lafourche Dedicated Dredging Increment 5

Future Withou	it 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
			AAHU's =	562.50

uture With Project		I	Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	1246	0.49	604.53	
1	1246	0.48	59 8.55	601.54
6	1246	0.49	608.40	3017.37
20	1246	0.77	963.68	11004.57
			AAHU's	731.17

NET CHANGE IN AAHU'S DUE TO PROJECT	
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
•	400	••			
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
9	349	28	570	46	221
10	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	7 545
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

		TY 0		TY 1		TY 20	
/ariable		Value	SI	Value	SI	Vaiue	SI
V1	% Emergent	53	0.58	53	0.58	40	0.46
V2	% Aquatic	35	0.55	35	0.55	20	0.44
V3	Interspersion Class 1 Class 2 Class 3	% 60	0.32	% 60	0.32	% 50	0.30
	Class 4 Class 5	40		40		50	
V 4	%OW <= 1.5ft	50	0.74	49	0.73	30	0.49
V 5	Salinity (ppt)	5	1.00	5	1.00	7	1.00
∨6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
		HSI =	0.65	HSI =	0.65	HSI =	0.5

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project..... PBA-12b Barataria Bay Waterway Bank Prot.

Marsh type acres.....

2790

East Bank

Condition: Future With Project

		TY 0		TY 1		/ TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	53	0.58	53	0.58	48	0.53
∨2	% Aquatic	35	0.55	40	0.58	45	0.62
V 3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 60 40	0.32	% 60 40	0.32	% 55 45	0.31
V 4	%OW <= 1.5ft	50	0.74	50	0.74	50	0.74
V5	Salinity (ppt)	5	1.00	4	1 00	4	1.00
∨6	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

Project: PBA-12b Barataria Bay Waterway Bank Prot. East Bank

Future Withou	ıt Project		Total	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 P	roject		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
			-	
			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	<i>5</i> 3	22
3	1,429	51	1,461	52	33
4	1,411	51	1,454	52	44
5	1,393	50	1,447	52	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
15 **	1,212	43	1,374	49	163
1 6	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 6
3	377.59

TOTAL BENEFITS = 1,807 AAHUS

Project...... CW-1 Dedicated Dredging in the Miss. River

Marsh type acres:

Increment 1

Fresh.....

1900

Condition: Future Without Project

Intermediate...

		TY 0		TY 1		TY 3		
Variable		Value	SI	Valu●	SI	Value	ŜI	
V1	% Emergent	2	0.12	2	0.12	1	0.11	
V2	% Aquatic	100	1.00	100	1.00	100	1.00	
V 3	Interspersion Class 1 Class 2	%	0.20	%	0.20	%	0.20	
·	Class 3 Class 4 Class 5	100		100		100		
V 4	%OW <= 1.5ft	o	0.10	0	0.10	0	0.10	
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 =	0.30	HSI =	0.30	HSI =	0.29	

Project...... CW-1 Dedicated Dredging in the Miss. River

		TY 10		TY 20			
/ariable	<u> </u>	Value	SI	Value	SI	Value	SI
V1	% Emergent	1	0.11	1	0.11		
V2	% Aquatic	75	0.78	50	0.55	í	
V3	Interspersion Class 1 Class 2 Class 3 Class 4	100	0.20	100	0.20	%	
V4	Class 5 %OW <= 1.5ft	0	0.10	0	0.10		
V5	Salinity (ppt) fresh intermediate	o	1.00	o	1.00		
∨6	Access Value	1.00	1.00	1.00	1.00		

Project...... CW-1 Dedicated Dredging in the Miss. River

Marsh type acres:

Increment 1

Fresh.....

1900

Condition: Future With Project

Intermediate...

		TY 0		TY 1		TY 3	
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	% 10 0	1.00	% 100	1.00
V 4	%OW <= 1.5ft	0	0.10	100	0.6 0	100	0.60
∨5	Salinity (ppt) fresh intermediate	0	1.QO	o	1.00	0	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

% Emergent	Value 83	SI	TY 20 Value	SI	Value	SI
% Emergent	83	0.05	!			
		0.85	6 5	0.69		
% Aquatic	100	1.00	100	1.00		
Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 90 10	0.96	100	0.60	%	
%OW <= 1.5ft	85	1.00	75	0.94		
Salinity (ppt) fresh intermediate	. 0	1.00	0	1.00	·	
Access Value	1.00	1.00	1.00	1.00		
-	Class 1 Class 2 Class 3 Class 4 Class 5 %OW <= 1.5ft Salinity (ppt) fresh intermediate	Class 1 90 Class 2 10 Class 3 Class 4 Class 5 %OW <= 1.5ft 85 Salinity (ppt) fresh 0 intermediate	Interspersion Class 1 90 0.96 Class 2 10 Class 3 Class 4 Class 5 %OW <= 1.5ft 85 1.00 Salinity (ppt) fresh 0 1.00 intermediate Access Value 1.00 1.00	Interspersion Class 1 90 0.96 Class 2 10 100 Class 3 Class 4 Class 5 %OW <= 1.5ft 85 1.00 75 Salinity (ppt) fresh 0 1.00 0 intermediate Access Value 1.00 1.00 1.00	Interspersion % Class 1 90 0.96 0.60 Class 2 10 100 100 Class 3 Class 4 Class 5 0.94 %OW <= 1.5ft	Interspersion Class 1 90 0.96 0.60 Class 2 10 100 100 Class 3 Class 4 Class 5 %OW <= 1.5ft 85 1.00 75 0.94 Salinity (ppt) fresh 0 1.00 0 1.00 intermediate Access Value 1.00 1.00 1.00 1.00

AAHU CALCULATION

Project: CW-1 Dedicated Dredging in the Miss. River Increment 1

Future Withou	ut 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 Pr	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
!				,
			AAHU's	1585.82

NET CHANGE IN AAHU'S DUE TO PROJECT	7
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	WP	
Year	Acres	%	Acres	%	Net Acres
0	20		_		
0	30	2	30	2	
1	29	2	380	20	351
2	29	2	380	20	351
3	28	1	1,710	9 0	1,682
4	27	1	1,69 0	89	1,663
5	27	1	1,670	88	1,643
6	26	1	1,650	87	1,624
7	25	1	1,631	86	1,60 6
8	25	1	1,612	85	1,587
9	24	1	1,593	84	1,569
10	24	1	1,574	83	1,551
11	23	1	1,537	81	1,514
12	23	1	1,501	79	1,479
13	22	1	1,466	7 7	1,444
14	22	1	1,431	75	1,410
15	21	1	1,398	74	1,377
16	21	1	1,365	72	1,344
17	20	1	1,333	70	1,313
1 8	20	1	1,301	68	1,282
19	19	1	1,271	67	1,252
20	19	1	1,241	65	1,222
Total Years 1-20	472		27,735		
Average Annual	24		1,387		1,363

Project...... CW-1 Dedicated Dredging in the Miss. River

Marsh type acres:

Increment 2

Fresh.....

730

Condition: Future Without Project

Intermediate...

		TYO		TY 2		TY 4		
<u>Variable</u>		Value	SI	Value	SI	Value	SI	
V1	% Emergent	5	0.15	5	0.15	4	0.1	
V2	% Aquatic	20	0.28	20	0.28	20	0.2	
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	33	0.47	33	0.47	33	0.4	
∨5	Salinity (ppt) fresh intermediate	o	1.00	0	1.00	o	1.0	
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.0	
	<u></u>	HSI =	0.29	HSI =	0.29	HSI =	0.2	

Project...... CW-1 Dedicated Dredging in the Miss. River

,		TY 11		TY 20			
/ariable		Value	SI	Value	SI	Value	SI
V1	% Emergent	4	0.14	3	0.13		
V2	% Aquatic	20	0.28	15	0.24		
V3	Interspersion Class 1 Class 2 Class 3	%	0.20	%	0.20	9,	
	Class 4 Class 5	100		100			
V4	%OW <= 1.5R	25	0.38	15	0.27		
V5	Salinity (ppt) fresh intermediate	0	1.00	o	1.00		
V6	Access Value	1.00	1.00	1.00	1.00		

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	Valu●	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	% 1 00	1.00
V 4	%OW <= 1.5ft	33	0.47	100	0.60	100	0.60
∨5	Salinity (ppt) fresh intermediate	0	1.00	0	1.00	0	1.00
∨6	Access Value	1.00	1.00	1,00	1.00	1.00	1.00
		HSI =	0.29	HSI =	0.38	HSI =	0.88

Project...... CW-1 Dedicated Dredging in the Miss. River

		TY 11		TY 20			
√ariabie		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	0.96	% 10 0	0.60	%	
V 4	%OW <= 1.5R	85	1.00	75	0.94		,
∨5	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	t 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
			AAHU's =	199.30

Future 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	
			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	FW	/OP	F'	WP		
Year	Acres	%	Acres	%	Net Acres	
0	35	5	35	5		
ĺ	34	5	35	5	1	
2	33	5	146	20	113	
3	33	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	59 8	
9	28	4	619	85	591	
10	28	4	612	84	584	
11	27	4	605	83	57 8	
12	26	4	591	81	564	
13	26	4	577	79	551	
14	25	3	563	77	538	
15	24		550	75	525	
16	24	3 3 3 3 3	537	74	513	
17	23	3	524	72	501	
18	23	3	512	70	489	
19	22	3	500	68	478	
20	22	3	488	67	467	
Total Years 1-20	550		10,214			
Average Annual	28		511		483	

Project...... CW-1 Dedicated Dredging in the Miss. River

Marsh type acres:

Increment 3

Fresh.....

850

Condition: Future Without Project

Intermediate...

		TY 0		TY 2		TY 4	
Variable		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
V 4	Class 5 %OW <= 1.5ft	88	1.00	88	1.00	88	1.00
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 =	0.39	HSI ≖	0.39	HSI =	0.39

Project...... CW-1 Dedicated Dredging in the Miss. River

Variable V1 V2	% Emergent	Value 9	SI	Value	SI	Value	C 6
	% Emergent	9	ĺ				SI
V2			0.18	9	0.18		
7.	% Aquatic	50	0.55	40	0.46	•	
V3	Interspersion Class 1 Class 2 Class 3	%	0.20	%	0.20	%	:
	Class 4 Class 5	100		100			
V4	%OW <= 1.5ft	75	0.94	60	0.78		
V5	Salinity (ppt) fresh intermediate	0	1.00	o	1.00		
∨6	Access Value	1.00	1.00	1.00	1.00		

Project...... CW-1 Dedicated Dredging in the Miss. River

Marsh type acres:

Increment 3

Fresh.....

850

Condition: Future With Project

Intermediate...

	7	TY 0		TY 2		TY 4	
Variable		Value	SI	Value	SI	Value [SI
V1	% Emergent	10	0.19	20	0.28	90	0.91
V2	% Aquatic	50	0.55	0	0.10	90	0.91
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	100	0.20	% 10 0	1.00	% 100	1.00
V4	%OW <= 1.5ft	88	1.00	100	0.60	100	0.60
V5	Salinity (ppt) fresh intermediate	0	1.00	0	1.00	0	1.00
<u>∨6</u>	Access Value	1.00	1,00	1.00	1.00	1 00	1.00
	<u>L</u>	HSI =	0.39	HSI =	0.38	HSI =	0.91

Project...... CW-1 Dedicated Dredging in the Miss. River

		TY 11		TY 20			
Variable	<u> </u>	Value	SI	Value	SI	Value	SI
V1	% Emergent	88	0.89	85	0.87		
V2	% Aquatic;	90	0.91	80	0.82	\$	
V 3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 90 10	0.96	% 10 0	0.60	%	
V 4	%OW <= 1.5ft	85	1.00	75	0.94		
∨5	Salinity (ppt) fresh intermediate	0	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

CW-1 Dedicated Dredging in the Miss. River Increment 3

Future Withou	Future Without 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			Total	Cummulative	
TY	Acres	x HSI	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	í
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	*
<u>Year</u>	Acres	%	Acres	%	Net Acres
0	85	10	85	10	
1	85	10	85	10	0
2	84	10	170	20	86
3	84	10	170	20	86
4	83	10	765	90	682
5	83	10	763	90	680
6	82	10	761	90	679
7	82	10	759	89	677
8	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	65 5 /
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

Project..... CW-5 Marsh Creation East of the Atch. River

Marsh type acres:

Increment 1-Avoca Island

Fresh.....

2000

Condition: Future Without Project

Intermediate.

Variabl e		TY 0		TY 1		TY 2	
		Value	SI	Value	SI	Value	SI
<u>V1</u>	% Emergent	0	0.10	0	0.10	0	0.10
V2	% Aquatic	0	0.10	0	0.10	0	0.10
V3	Interspersion Class 1 Class 2 Class 3 Class 4	%	0.10	%	0.10	%	
	Class 5	100		100		100	
V4	%OW <= 1.5ft	0	0.10	0	0.10	0	0.10
∨5	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
	اُ	HSI =	0.19	HSI =	0.19	HSI =	0.19

Project..... CW-5 Marsh Creation East of the Atch. River

Variabl e		TY 3		TY 4		TY 5	
		Value	SI (Value	SI	Value	SI
V1	% Emergent	0	0.10	0	0.10	. 0	0.10
V2	% Aquatic	0	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	
V 4	%OW <= 1.5ft	0	0.10	0	0.10		0.10
V5	Salinity (ppt) fresh intermediate	0	1.00	o	1.00	0	1 00
∨6	Access Value	1 00	1.00	1.00	1.00	1.00	1 00
	'l 	HSI =	0.19	HSI =	0.19	HSI =	0.19

Project..... CW-5 Marsh Creation East of the Atch. River FWOP

		TY 20					
Variable	<u> </u>	Value	SI	Value	SI	Value	SI
V1	% Emergent	0	0.10				
V2	% Aquatic	0	0.10				
∨3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	100	0.10	%		%a	
V 4	%OW <= 1.5ft	0	0.10				
∨5	Salinity (ppt) fresh intermediate	0	1.00				
∨6	Access Value	1.00	1.00				
		HSI =	0.19	HSI =	î	HSI =	

Project...... CW-5 Marsh Creation East of the Atch. River

Marsh type acres:

Increment 1-Avoca Island Condition: Future With Project

Fresh.....

Intermediate.

2000

Variabl e		TY 0		TY 1		TY 2	
		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	%	
	Class 4 Class 5	100		100		100	
V 4	%OW <= 1.5ft	0	0.10	2	0.12	5	0.16
∨5	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 ≖	0.24	HSI =	0.28

Project..... CW-5 Marsh Creation East of the Atch. River FWP

Variable		TY 3		TY 4		TY 5	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	15	0.24	21	0.29	26	0.30
V2	% Aquatic	15	0.24	20	0.28	25	0.3
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	0	1.00	o	1.00
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	<u></u>	HSI =	0.32	HSI =	0.37	HSI =	0.40

Project..... CW-5 Marsh Creation East of the Atch. River

		TY 20					
Variabl e		eulue :	SI	∨alue	SI	Value	SI
V1	% Emergent	22	0.30				
V2	% Aquatic	20	0.28				
∨3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 50 50	0.30	%		%	
V4	%OW <= 1.5ft	10	0.21				
∨5	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

WETLAND VALUE ASSESSMENT

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	FW	/OP	F	WP	
Year	Acres	%	Acres	%	Net Acres
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
			. 2 .		
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		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	12	0.21	11	0.20	7	0.16
V2	% Aquatic	45	0.51	45	0.51	35	0.42
V3	Interspersion Class 1 Class 2 Class 3	%	0.20	%	0.20	%	0.20
	Class 4 Class 5	100		100		100	
V4	%OW <= 1.5ft	20	0.33	20	0.33	10	0.21
V5	Salinity (ppt) fresh intermediate	3	0.60	3	0.60	3	0.60
V6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	<u> </u>	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......lntermediate..

2403

_		TYO		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 5	100		100		20 80	
V4	%OW <= 1.5ft	20	0.33	20	0.33	40	0.55
∨5	Salinity (ppt) fresh intermediate	3	0.60	2	1.00	2	1.00
∨6	Access Value	1.00	1.00	1.00	1.00	1.00	1 00
		HSI =	0.32	HSI =	0.36	HSI =	0.41

AAHU CALCULATION

Project: PBA-11 Red/Spanish Pass Diversion

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
			AAHU's =	708.03

Future With P	roject		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

WETLAND VALUE ASSESSMENT

AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PBA-11 Red/Spanish Pass Diversion

Date:

October 3, 1996

Total Area:

2,403

Target	FV	VOP	F'	WP	
Year	Acres	%	Acres	%	Net Acres
0	279	12	279	12	
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	303	13	88 _.
9	213	9	310	13	9 7
10	207	9	314	13	107
		8		13	116
11	201	8	317		
12	196		320	13	124
13	191	8	324	13	133
14	186	8 8	327		141
15	181	-	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		TY 1		TY 3	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	9	0.18	9	0.18	9	0.18
	% 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
	Class 5					95	
V4	%OW <= 1.5ft	0	0.10	0	0.10		0.10
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	1.00
	<u></u>	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			ę	
V2	% Aquatic	50	0.65				
V3	Interspersion Class 1 Class 2 Class 3	% 5	0.21	%		%	
	Class 4 Class 5	95					
V4	%OW <= 1.5ft	5	0.16				
V5 .	Salinity (ppt)	3	1.00				
V6	Access Value	1.00	1.00				
		HSI =	0.35	HSI =		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	% Emergent	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
<u>V6</u>	Access Value	1.00	1.00	1.00	1.00	1.00	1
	<u>L</u>	HSI =	0.35	HSI =	0.52	HSI =	0.78

Project...... CW-4 Marsh Creation at West Pt. a la Hache FWP

		TY 20					
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	66	0.69		1		
V2	% Aquatic	60	0.72				
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 70 5 25	0.83	%		%	
V4	%OW <= 1.5ft	80	1.00				
V5	Salinity (ppt)	3	1.00				
V6	Access Value	1.00	1.00				
		HSI =	0.79	HSI =		HSI =	

Project: CW-4 Marsh Creation at West Pt. a la Hache

Future Withou	t Project		Total	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
1			AAHIJ's =	403.01

Future With I	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
			AAHU's	868.61

NET CHANGE IN AAHU'S DUE TO PROJECT	1
A. Future With Project AAHU's =	868.61
B. Future Without Project AAHU's =	403.01
Net Change (FWP - FWOP) =	465.60

WETLAND VALUE ASSESSMENT

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	698
. 5	100	9	796	69	696
6	99	9	793	69	694
7	99	9	791	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	779	68	683
13	95	8	776	68	, 681
14	94	8	774	68	679
15	94	8	771	67	677
16	93	8	769	67	676
17	92	8	766	67	674
18	92	8	764	67	672
19	91	8	761	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

Increment 2-Creole Bayou

Marsh type acres:

Condition: Future Without Project

Fresh......Intermediate

600

		TY 0		TY 1	TY 1		<u> </u>
Variable		Value	SI	Value	SI	TY 20 Value	SI
V1	% Emergent	10	0.19	10	0.19	10	0.19
V2	% Aquatic	5	0.15	5	0.15	5	0.15
∨3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 100	0.40	% 100	0.40	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
	<u>. </u>	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	r
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 Class 3 Class 4 Class 5	100	0.40	% 50 50	0.50	% 50 50	0.50
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
∨6	Access Value	1.00	1.00	1.00	1.00	1.00	1.00
	·	HSI =	0.30	HSI ≖	0.53	HSI =	0.53

AAHU CALCULATION

Project: CW-5 Marsh Creation East of the Atch. River Increment 2-Creole Bayou

Future Withou	t 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>			
			AAHU's =	181.52

Future With Pr	roject		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
	<u> </u>		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

WETLAND VALUE ASSESSMENT

AVERGE ANNUAL ACRES OF EMERGENT MARSH

Project:

CW-5 Marsh Creat. East of Atch. River-Creole Bayou - Inc. 2 November 19, 1996

Date:

Total Area:

600

Target	F	WOP		EWD	
Year	Acres	%		FWP	
			Acres	%	Net Acres
0	60	10	60		
1	60	10	60	10	***
2 3	60	10	324	54	264
	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		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	264 264
20	60	10	324	54	264 264
	00	10	324	54	264
tal Years 1-20	1.200				204
	1,200		6,480		
erage Annual	60				
	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

	1 [TY 0		TY 1		TY 20	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	66	0.69	62	0.66	0	0.16
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

	7 (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
V3	Interspersion Class 1 Class 2 Class 3 Class 4	% 60 40	0.68	% 60 40	0.68	% 30 70	0.44
V4	Class 5 %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 0.5 0
		HSI =	0.69	HSI =	0.68	HSI =	

AAHU CALCULATION

Project: PME-2 Breakwaters at Rockefeller Refuge

Future Withou	ıt Project		Total	Cummulative
TY	Acres	x HSI	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
			AAHU's =	65.83

Future With P	roject		Total	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	
		Įį.	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

WETLAND VALUE ASSESSMENT

AVERAGE ANNUAL ACRES OF EMERGENT MARSH

Project:

PME-2 Breakwaters at Rockefeller Refuge

Date:

September 9, 1996

Total Area:

140

Target	FV	/OP	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 [°]	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 Projects¹ for the 6th Priority Project List

XTE-32i

<u>Bayou Boeuf Pump Station</u> 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 (Chairrnan, 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

¹ 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), 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 (Attorney 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



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PETITION

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Daniel Burn RO. BOX 6 BOOTHVILLE, LA. 20088
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- Care Deloway PO Box 11 Bouthville 1 70038
- Millell & John PD Box 11 Box Box
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Mrs Lester Brus P.O. BOX 2ND BOOTHVILLE, 4A 700%
Daniel Buras In. P.O. Box 398 Boothvilleta. 7003
Family Hollowge P.O BOX 1/ BOOT brille 10 20038
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Coastal Wetlands Planning, Protection and Restoration Act

6th Priority Project List Report

Appendix G

Status of Projects from Previous Priority Project Lists

Status of Projects from Previous Priority Project Lists

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		Project Stat								
PROJECT	BASIN	PARISH	ACRES	CSA	CSA CONSTANT CONSTANT	Const End	Baseline	Baseline Current %	*	Obligations/ Expenditures
Lead Agency: DEPT. OF THE ARMY, CORPS OF ENGINEERS	PT. OF THE AI	RMY, COF	PS OF ENC	INEERS						
Priority List										
Barataria Bay Marsh Creation	BARA	JEFF	445	24-Apr-95 A	22-Jul-96 A	31-Dec-00	\$1,759,257	\$1,695,796	96.4	\$1,191,659 \$1,058,589
	Remarks:	The enlarger completed in incorporated	ement of Queen in October 1990 d into the Corp	Bess Island was in If oyster-relates S.O.&.M. deposit p	nent of Queen Bess Island was incorporated into the project and the October 1996. If oyster-related conflicts are removed from the re into the Corp's O&M deposit plan for the next maintenance cycle.	the project and the noved from the rer aintenance cycle.	The enlargement of Queen Bess Island was incorporated into the project and the construction of the 9-acre-cell was completed in October 1996. If oyster-related conflicts are removed from the remaining marsh creation sites, they will be incorporated into the Corp's O&M deposit plan for the next maintenance cycle.	e 9-acre.cell was ation sites, they w	3	
	Status:	Completed (disposal.		and for \$945,678	Remaining fund	s may be used to p	Queen Bess Island for \$945,678. Remaining funds may be used to purchase oyster leases for O&M beneficial	ses for O&M bene	ficial	
Bayou Labranche Wetlands Restoration	PONT	STCHA	203	17-Apr-93 A	06-Jan-94 A	07-Apr-94A	\$4,461,301	\$3,658,740	82.0	\$3,379,167 \$3,357,455
	Remarks:	Contract awa Pontchartrain	varded to T. L. in sediments an k Force took pl	James Co. (Dredy d placing in mars ace on April 13, 1	ge "Tom James") I h creation area. C 994. The area wa	for dredging appre Contract final inspa as seeded by LA E	Contract awarded to T. L. James Co. (Dredge "Tom James") for dredging approximately 2,500,000 cy of Lake Pontchartrain sediments and placing in marsh creation area. Contract final inspection was performed on April 7, 1994. Site visit by Task Force took place on April 13, 1994. The area was seeded by LA DNR on June 25, 1994.	10 cy of Lake hed on April 7, 19 994.	94. Site	
		The project access for the	site is being mo he lease holders	The project site is being monitored. No furthe access for the lease holders in the project area.	her work is planne a.	ed at this time exc	The project site is being monitored. No further work is planned at this time except to address the problem of impaired access for the lease holders in the project area.	soblem of impair	p	

Complete.

Status:

CI:LMN-PM-M	COV	COASTAL WET Project State	TLANDS I	PLANNING, PF ry Report - Lea	ROTECTION / d Agency: DEI	FLANDS PLANNING, PROTECTION AND RESTORATION ACT us Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)	TION ACT			31-Mar-98 Page 2
PROJECT	BASIN	PARISH	ACRUS	CSA	CSA Const Start Const Ein	Const End	Baseline	Baseline Current %	*	Obligations/ Expenditures
Lake Salvador Shoreline Protection at	BARA	JEFF	0	29-Oct-96 A	01-Jun-95 A	21-Mar-96 A	\$60,000	000'09\$	0 001	\$58,378 \$58,378
Jean Lafitte NHP&P	Remarks:	This project	ct was added to	o Priority List 1 at 0	the March 1995 T	was added to Priority List 1 at the March 1995 Task Force meeting.	٠.			
		The Task the design	The Task Force approved the design of the project.	d the expenditures	of up to \$45,000 i	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.	l non-Federal fund	ls of \$15,000 (25	%) for	
		A design revalventiseme Contracting	eview meeting nent for the co ng Corp. The	view meeting was held with Jean Lafitte Park persor nt for the construction contract. The contract was a Corp. The contract was completed in March 1997.	n Lafiile Park pers The contract wa leted 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	2	
	Status:	Complete.		This project was 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 \$1,680,784
	Remarks:	The project need for the		was modified by moving the dike from the west to the east bank sediment retention fence on the west bank is still undetermined	ke from the west t e west bank is still	was modified by moving the dike from the west to the east bank of the cutoff to better protect the wetlands. The sediment retention fence on the west bank is still undetermined.	he cutoff to better	protect the wetla	inds. The	
		The Task	Force approve	d a revised project	estimate of \$2,500	The Task Force approved a revised project estimate of \$2,500,000; however, current estimate is less.	Tent estimate is le	55.		

4

Condemnation of real estate easements was required because of unclear ownership titles and significantly lengthened the project schedule. Construction was completed in February 1996.

Complete.

Status:

PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Bascline	Bascline Current %	• §°	Actual Obligations/ Expenditures
West Bay Sediment Diversion	DELTA	PLAQ	9,831				\$8 ,517,066	\$16,683,854	16361	\$458,229
	Remarks:	The major po of flow from amount of ma waterbottom easement acq DNR is reach	portion of the commercial to be dimageri	ost increase is fanded study of tredged. Howevernership, both by condemnation ill be proposed is	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 LA DNR is reached, project will be proposed for de-authorization.	norage as a result on point was comiusiana was lookii ect construction, a as resolved. If no	of induced shoaling pleted, providing a ng into the issue of nd they requested resolution on the	g caused by the di basis for estimati State-owned that we not proce land rights issue v	version ng the eed with vith L.A	
		In a letter d and its loca requesting o	lated March I, tion on the "bir deauthorization	1995, the Local I's foot" delta, v of the project w	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	requested deauth Restoration Plan airman of the Tecl	orization of the procalls for a phased- inical Committee	oject citing cost ov abandonment. A on August 25, 199	erruns letter S.	
		However, at 1 project proce List estimate	t the February 2 ceeded. The CS ie by 125% and	28, 1996 Task F A was sent to L will, therefore,	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.	tate withdrew its r re in March 1997. rce approval.	equest for deautho The current estim	rization and work iate exceeds the P	on the riority	
	Status:	Unscheduled.		CSA at DNR since March 1997.	1997.					
	Total Priority List	-	10,533				\$16,323,624	\$24,154,638	148.0	\$6,768,635

4 Cost Sharing Agreements Executed

5 Project(s)

0 Project(s) Deferred/Deauthorized

0 Unfunded Project(s)

4 Construction Started
3 Construction Completed

PROJECT	BASIN	PARISH ACRES CSA Const Start Const End Bascline	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
Priority List 2 Clear Marais Bank	CALC	CALCA	9901	29-Apr-96 A	29-Aur-96A	03-Mar-97 A	\$1.741.310	\$3.416.212	1 6 961	\$2 869 956
Protection	Remarks:	The original consolution of the quantity me construction. The design and costs	Il construction estimatity needed (based on n. This accounts for costs about \$89/foot	estimate was low, used on the original uts for most of the 4/foot.	based on the proy I design), and the cost increase shor	The original construction estimate was low, based on the proposed plan in that the rock quantity estimate was less than half of the quantity needed (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.	he rock quantity e rclude a floatation timate is based on	stimate was less the channel needed for the original rock	nan half or dike	\$2,765,651
		The Cost Sharing Bros., Inc. for \$2	haring Agreeme for \$2,694,000.	nent was executed and it. Construction w	i was executed and approved and the constri Construction was completed in March 1997.	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.	contract awarded o	on August 1, 1996	to Luhr	
		There is an GIWW mai	There is an opportunity to crea GIWW maintenance dredging.	o create marsh behi ging.	nd the rock dike	There is an opportunity to create marsh behind the rock dike between Brannon Canal and Alkalie Ditch using material from GIWW maintenance dredging.	Canal and Alkalie	Ditch using mater	rial 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 t. Construction c	Counsel to acqui	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.	r this project only y 16, 1998 Task F	, directly impacte orce meeting	d by the	
	Status:	Construction 1998. Design	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, 5 in January 1998	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.	creased cost. Bid	s were opened Jar r access problems.	nary 9.	

CLLMN-PM-M	'0 0	ASTAL WETLAN Project Status Su	TLANDS P	LANNING, 1	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 RMY (COE)			31-Mar-98 Page 5
PROJECT	BASIN	PARISH ACRI	ACRES	CSA	CSA Const Start Const En	Const End	Bascline	Baseline Current %	*	Actual Obligations/ Expenditures
	Total Priority List 2	2 2	1,538				\$6,595,412	\$9,783,837	148.3	\$8,333,288 \$3,491,849
2 Project(s)	(s) ₁ :									
2 Cost S	2 Cost Sharing Agreements Executed	its Executed								
2 Constr	2 Construction Started									
I Consti	I Construction Completed	-								
0 Projec	0 Project(s) Deferred/Deauthorized	uthorized								
0 Unfun	0 Unfunded Project(s)									

PROJECT	BASIN	PARISH ACRES	ACRES	CSA	PARISH ACRES CSA Const Start Const End Bascline	Const End	Bascline	Baseline Current %	* %	Actual Obligations/ Expenditures
Priority List 3										
Channel Armor Gap Crevasse	DELTA	PLAQ	936	13-Jan-97 A	22-Sep-97A	02-Nov-97 A	\$808,397	\$889,914	11011	\$511,223 \$45,735
	Remarks:	The Cost Si	haring Agreeme	The Cost Sharing Agreement is being reviewed by L.A. DNR.	wed by L.A DNR.					. C TO.
		Cost increa	se is due to addi	itional project ma	magement costs, b	Cost increase is due to additional project management costs, by both Federal and Local Sponsor.	Local Sponsor.			
		Surveys ide Service rev US FWS re	entified a pipelir iewed their perr quested a modif	ne in the crevasse mit for the pipelir fication to the ali	area which would be and determined gnment and only U	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 proje is required to Tow ds should be invo	ct. US Fish & V ver it at their own Ived.	Vildlife 1 cost.	
	Status:	Complete.								
MRGO Back Dike Marsh Protection	PONT	STBER	755	17-Jan-97 A	31-Aug-98	31-Oct-98	\$512,198	\$482,164	176	\$200,090
	Remarks:	Cost increas included in condemnati	se is due to addi the baseline esti on. This accour	itional project ma imate: Further, nts for the long p	nagement costs, e title research indie 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 wnership titles are	l sponsor actività unclear, requirin	es not B	

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.

Status:

W-WA-NWTI.)	COV	STAL WE	TLANDS PL	ANNING, PI Report - Lea	ROTECTION AND A Agency: DE	COASTAL 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 7 Actival
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Obligations/ Expenditures
Pass-a-Loutre Crevasse	DELTA	PLAQ	0				\$2.857,790	\$105,918	3.7	\$108,830
	Remarks:	Two pipelines an million. LA DN there are no more cost-savings coureduced the reloc	Now and two pow DNR asked the more suitable be sould be achie relocation cost	Two pipelines and two power poles are in the million. LA DNR asked that the Corps inverther are no more suitable locations for the cost-savings could be achieved. Reducing I reduced the relocation cost only marginally.	he arca of the creestigate alternative cut. The Corps he the bottom width o	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.	location costs by a or minimize impa design to determ i 430 feet as origi	approximately \$2. acts to the pipeline tine whether reloc nally proposed to	15 s, but ations 200 leet	
	Status:	A draft mer Task Force	norandum dated to deauthorize t	December 5, 19 he project. COI	997 was sent to the section of the s	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.	cal Committee Ch uary 16, 1998 Tas	hairman requesting sk Force meeting	s the	
To	Total Priority List	e .	1691				\$4,178,385	\$1,477,996	35.4	\$820,143
3 Project(s)										
2 Cost Shari	2 Cost Sharing Agreements Executed	Executed								
1 Construction Started	on Started									
l Constructi	Construction Completed									
l Project(s)	Project(s) Deferred/Deauthorized	thorized								
0 Unfunded Project(s)	Project(s)									

CELMN-PM-M	V00	STAL WE Project Stat	TLANDS P	LANNING, PI y Report - Lea	ROTECTION AND A Agency: DE	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF 1111: ARMY (COE)	VIION ACT RMY (COE)			31-Mar-91 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 \$52,154
	Remarks:	The major l sedimentati	andowner has on negatively	indicated non-sur impacting oil and	pport 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 crea.	concern about		
	Status:	A draft men Task Force	norandum date to deauthorize	ed December 5, 19 the project. COF	997 was sent to th E requested 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.	cal Committee Ch uary 16, 1998 Tas	nairman requestir sk Force meeting	ng 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 rec get close enc pumpout of miles 2.95 a	equested that the ough to the crimaterial from material from and 3.2 BHP.	re hoppers dump t evasses to avoid d the hopper into a	the material in cre bropping the mater disposal area loc	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.	e concerns that the n channel. Curre ending bank or in	e hopper dredges nt plan involves i Southwest Pass	cannot the between	
	Status:	Awaiting aw slipped from	ward by Opera n January 31,	tions Division. Is 1998 to April 30,	ard by Operations Division. Is an option on O&M lease January 31, 1998 to April 30, 1998, dependent on river.	Awaiting award by Operations Division. Is an option on O&M lease hopper dredge contract 98-9. Construction start slipped from January 31, 1998 to April 30, 1998, dependent on river.	dge contract 98-9	. Construction	start	

CETMN-PM-M	COA	STAL WE Project Stat	TLANDS Pl	LANNING,	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 ACI	ACRES	CSA	CSA Const Start Const Enc	Const End	Bascline	Bascline Current %		Actual Obligations/ Expenditures
Ė	Total Priority List	4	0				\$2,768,908	\$427,154	15.4	\$76,660
2 Project(s)	•									
l Cost Sha	1 Cost Sharing Agreements Executed	Executed								
0 Construc	0 Construction Started									
0 Construc	0 Construction Completed									
l Project(s	Project(s) Deferred/Deauthorized	thorized			·					
0 Unfunded Project(s)	d Project(s)									

		Project Status	tus Summa	ry Report - Le	ad Agency: DE	Project Status Summary Report - Lead Agency: DEPT, OF THE ARMY (COE)	RMY (COE)			Page 10
PROJECT	BASIN	PARISH	ACRES	CSA	CSA CONSTSIED CONSTEN	Const End	Baseline	Baseline Current 6		Actual Obligations/ Expenditures
Priority List 5										
Bayou Chevee Shoreline Protection	PONT	ORL	66	86-unf-10	31-Aug-98	30-Nov-98	\$2,890,821	\$2,555,029	88.4	\$215,714
	Remarks:	Revised projective tying into marsh will be	oject consists into and extenible protected b	ct consists of constructing a 2 o and extending an existing t protected by the project.	2,870-foot rock dik JSFWS rock dike.	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.	of the north cove a ve. Approximately	and a 2,820-foot i 775 acres of bracl	ock kish	
	Status:									
Ē	Total Priority List 5	\$ 1	661				\$2,890,821	\$2,555,029	88.4	\$215,714
l Project(s)	•									
0 Cost Sha	0 Cost Sharing Agreements Executed	s Executed								
0 Construction Started	tion Started									
0 Construc	0 Construction Completed									
0 Project(s	0 Project(s) Deferred/Deauthorized	thorized								
0 Unfunded Project(s)	d Project(s)	;								

CELMN-PM-M	COA	STAL WE	TLANDS P	LANNING, P y Report - Lea	ROTECTION ad Agency: DE	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 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	689'61'8
	Remarks:	A draft mei deauthorize	morandum date the project. C	ed December 5, 1- OE requested dea	997 was sent to th authorization at th	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.	ittee Chairman req Task Force meetir	juesting the Task F	orce to	
	Status:	COE reque	sted deauthoriz	zation of project a	nt the January 16,	COE requested deauthorization of project at the January 16, 1998 Task Force meeting.	recting.			
Dustpan/Cutterhead Dredge Demo	DELTA	PLAQ	0	98-unf-10	15-Jun-98	30-Aug-98	\$1,600,000	\$1,600,000	100.0	\$22,704 \$70,704
	Remarks:									•
	Status:	Construction start drafted and awaiti		t slipped from March 30, 1998 to	1998 to June 15, 1 by HQ.	slipped from March 30, 1998 to June 15, 1998 to allow for adequate shoaling material. CSA to be ng new model approval by HQ.	lequate shoaling m.	aterial. CSA to b	ñ	

	_	Project Sta	tus Summa	ry Report - Lei	nd Agency: DE	Project Status Summary Report - Lead Agency: DEPT, OF THE ARMY (COE)	RMY (COE)			Page 12
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Bascline	Baseline Current %	*	Actual Obligations/ Expenditures
Marsh Island Ilydrologic Restoration	ТЕСНЕ	IBERI	40 8	01-Jul-98	30-Sep-98	29-Jan-99	\$4,094,900	\$4,094,900	0 001	866 SP\$
	Remarks:									
	Status:	CSA execuright of enti	ition will requ ry from DNR;	CSA execution will require new model CSA; not cnough deright of entry from DNR; received week of January 5, 1998.	A; not enough des January 5, 1998.	CSA execution will require new model CSA; not enough design to base cost on for drafting CSA. Over 4-month delay in right of entry from DNR; received week of January 5, 1998.	for drafting CSA.	Over 4-month	lelay in	
	Total Priority List 6	9	408				\$12,133,300	\$5,744,589	47.3	\$118,392
3 Project(s)				,						
0 Cost Shar	0 Cost Sharing Agreements Executed	Executed								
0 Construction Started	ion Started									
0 Constructi	0 Construction Completed									
l Project(s)	1 Project(s) Deferred/Deauthorized	horized								
0 Unfunded Project(s)	Project(s)									

CELMN-PM-M	COV	STAL WE Project Stat	TLANDS PI	ANNING, PF Report - Lea	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Sunimary Report - Lead Agency: DEPT. OF THE ARMY (COE)	ND RESTOR/ T. OF THE A	ATION ACT 8MY (COE)			31-Mar-98 Page 13
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Bascline	Baseline Current %	*	Obligations/ Expenditures
Priority List 7										
Cut Off Bayou Marsh	PONT	ORL	226				\$6,510,200	\$6,510,200	0 001	\$0 \$0
	Remarks:	This project	i was approved	as an unfunded p	was approved as an unfunded project on Priority List 7.	.ist 7.				
	Status:	Unfunded.								
Lake Borgne Shore Protection East & West of Shell Beach	PONT Remarks:	STBER This projec	131 I was approved	as an unfunded p	STBER 131 This project was approved as an unfunded project on Priority List 7.	.ist 7.	\$15,133,400	\$15,133,400	0.001	\$0 \$0

PROJECT	BASIN	PARISH	ACRES	CSA	CSA CONST Slart Const Enc	Const End	Bascline	Baseline Current %	*	Actual Obligations/ Expenditures
Sabine Refuge Marsh Creation	CALC	CAMER	238				\$9,391,600	89,391,600	0.001	S 5
	Remarks:	This project	was approved :	ss an unfunded	This project was approved as an unfunded project on Priority List 7.	r List 7.				
	Status:	Unfunded.								
Wine Island Eastward Expansion	TERRE	TERRE	37				\$1,276,100	\$1,276,100	100.0	2 5
	Remarks:	This project	was approved a	is an unfunded	This project was approved as an unfunded project on Priority List 7.	, List 7.				Ž
	Status:	Unfunded.								
	Total Priority List	7	632				\$32,311,300	\$32,311,300	0.001	25
4 Project(s)		<i>i</i>								Ā
0 Cost Shar	0 Cost Sharing Agreements Executed	Executed								
0 Construction Started	ion Started									

0 Project(s) Deferred/Deauthorized 4 Unfunded Project(s)

0 Construction Completed

		riojeci sia	(millione eni	י ארן אווי בייני	Froject Status Summany Nejvat Frend Agency, 1761 1. 33 (10) (10) (10)					Actual
PROJECT	BASIN	PARISH ACRES	ACRES	CSA	CSA CONST Start Const Enc	Const End	Baseline	Baseline Current %		Obligations/ Expenditures
Total DEPT OF THE	Total DEPT, OF THE ARMY, CORPS OF ENGINEERS	. .	14.998				\$77,201,750	\$76,454,543	0 66	99.0 \$16,332,832 \$11,280,197
20	20 Project(s)									
6	9 Cost Sharing Agreements Executed	nts Executed								
7 (7 Construction Started									
8	5 Construction Completed	9								
- C	3 Project(s) Deferred/Deauthorized	authorized								
4	4 Unfunded Project(s)									

	BASIN	PARISII	ACRES	CSA	CSA CORFDULES CONSTEN	Const End	Baseline	Baseline Current %	• • • •	Actual Obligations/ Expenditures
Lead Agency: ENVIRONMENTAL PROFFCT:	VIRONMENTA	AL PROTEC		ION AGENCY, REGION 6	9 N.		÷			
Priority List Conservation Plan	onservation 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 \$123,202
Plan	Remarks:	The date the date for repo	The date the MIPR was issudate for reporting purposes.	ued to obligate th	ie Federal funds fo	The date the MIPR was issued to obligate the Federal funds for the development of the plan is used as the construction start date for reporting purposes.	of the plan is used	d as the construct	tion start	
	Status:	Complete.								
	Total Priority List Cons Plan	Cons Plan	0				\$238,871	\$238.871	100.0	\$179,153 \$123,202
l Project(s)	:(s)									
l Cost S	Cost Sharing Agreements Executed	; Executed								
l Constr	Construction Started									
I Constr	Construction Completed	í								
0 Project	0 Project(s) Deferred/Deauthorized	thorized								
0 Unfun	0 Unfunded Project(s)									

	Project Status Summary	s Summary		Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)	NVIRONMEN	NAL PROTE	LION AGENC	Y (EPA)		/ I offer
PROJECT	BASIN	PARISH	ACRES	VS.)	CSA Const Start Const En	Const End	Baschine	Baseline Current %	*	Actual Obligations/ Expenditures
Priority List 1										
Isles Demieres (Phase 0) (East Island)	TERRE	TERRE	•	17-Apr-93 A	16-Jan-98 A	31-Aug-98	\$6,345,468	\$8,751,838	137.9!	\$6,530,737 \$308,397
	Remarks:	This phase priority list the January	of the Isles D 2 project. / 16, 1998 Ta	This phase of the Isles Demieres restoration project is being combined with Isles Demieres, Pha priority list 2 project.—Additional funds to cover the increased construction cost on lowest bid rethe January 16, 1998 Task Force meeting.—A revised Cooperative—Agreement is in preparation.	n project is being c cover the increase A revised Cooper	combined with Isle ed construction co- ative Agreement	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.	l (Trinity Island) eived were appro	, a ved at	
	Status:	Construction Contractor is Hydraulic dre	n start was Ja is to provide fredging bega	Construction start was January 16, 1998. Po Contractor is to provide revised schedule as Hydraulic dredging began January 23, 1998.	otential completio s soon as possible. 3.	n of dredging acti Containment dik	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.	J is end of May I ucted by bucket	998. dredge.	
	Total Priority List	_	6				\$6,345,468	\$8,751,838	137.9	\$6,530,737
l Project(s)	(8)									
l Cost Sh	Cost Sharing Agreements Executed	Executed								
l Constru	Construction Started									
0 Constru	0 Construction Completed									
0 Project(0 Project(s) Deferred/Deauthorized	horized								
0 Unfunde	0 Unfunded Project(s)									

	,		reject control control referred referred. The virtual referred referred to the referred referred (13-A)							
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Bascline	Baseline Current %	• %	Actual Obligations/ Expenditures
Priority List 2										
Isles Demieres (Phase I) (Trinity Island)	TERRE	TERRE	011	17-Apr-93 A	27-Jan-98 A	30-Nov-98	\$6,907,897	\$11,949,173	173.0 !	\$9,062,629
	Remarks:	Costs have funds to co	increased due ver the increase	to construction bic ed project cost we	ls significantly gra re approved at the	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.	d in plans and spec Task Force meetin	ifications. Addi	tional	
	Status:	The 30° hydraulic Trinity Island end		the Tom Jones, m Construction of	obilized at East Is containment dikes	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.	lary 27, 1998 and has commenced.	is expected to mo	ve to	
	Total Priority List 2	2	01-	,			\$6.907,897	\$11,949,173	173.0	\$9,062,629
l Project(s)	(s)									
l Cost Sh	1 Cost Sharing Agreements Executed	Executed								
l Constru	1 Construction Started									
0 Constru	0 Construction Completed									

0 Project(s) Deferred/Deauthorized

0 Unfunded Project(s)

CELMIN-PM-IM	Project Statu	Status Summary Rel	y Report - L	ead Agency: E	port - Lead Agency: ENVIRONMENTAL PROTECTION AGEN	ITAL PROTEC	Project Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)	Y (EPA)		Page 19
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	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 co	nstruction were	opened on Janua	ıry 31, 1996. Proj	ect construction st	Bids for construction were opened on January 31, 1996. Project construction started July 8, 1996.			
	Status:	Facility constr planting occus summer 1998	nstruction is ess curred, and pos 98.	entially complete sible change to fi	:; project on hold p reshwater marsh d	ending resolution emonstration. Res	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.	on by saltwater b neems is expected	efore d by	
Whiskey Island Restoration (Phase 2)	TERRE	TERRE	1,239	06-Apr-95 A	13-Fcb-98 A	31-Aug-98	\$4,844,274	\$7,863,363	162.3 !	\$5,956,103
	Remarks:	At the January 16, lowest bid received.	uary 16, 1998 n received.	necting, the Task	Force approved a	Iditional funds to c	16, 1998 meeting, the Task Force approved additional funds to cover the increased construction cost on sed.	construction cos	50	

Status: Work was initiated on February 13, 1998. Dredging may be completed by the end of May 1998.

CEL.MN-PM-M	COA) Project Statu	STAL WE s Summary	TLANDS PI y Report - La	ANNING,	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)	AND RESTOR TTAL PROTEC	ATION ACT TION AGENC	CY (EPA)		31-Mar-98 Page 20
PROJECT	BASIN	PARISH ACRI	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current 9:	• 6	Actual Obligations/ Expenditures
	Total Priority List	3	1,239				\$5,194,274	\$8,343,863 160 6	9 091	\$6,323,596 \$340,669
2 Project(s)	ect(s)									
2 Cost	2 Cost Sharing Agreements Executed	Executed								
2 Con:	2 Construction Started									
0 Con:	0 Construction Completed									
0 Proje	0 Project(s) Deferred/Deauthorized	horized		٠						
0 Unft	0 Unfunded Project(s)									

CELMN-PM-M	COASTAL WET	STAL WE		LANNING, I	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)	AND RESTORA TAL PROTEC	TION ACT	.Y (EPA)		31-Mar-98 Page 21
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	ò°	Actual Obligations/ Expenditures
Priority List	4									
Compost Demo	CALC	CAMER	0	22-Jul-96 A			\$370.594	\$380,594	102.7	\$286,199
	Remarks:	Engineering project con adequate ar	g/design propostruction start	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.	6. Project locatio project schedule is	n has changed fro delayed until Ent	om the original. ' tergy can collect	The an	
	Status:	Unscheduled compost.		ule is delayed, a	The schedule is delayed, approximately 6 to 12 months, until Entergy can collect an adequate amount of	2 months, until Ente	ergy can collect a	n adequate amou	ou of	
	Total Priority List	4	0				\$370,594	\$380,594	102 7	\$286.199
l Proj	Project(s)									
l Cos	Cost Sharing Agreements Executed	s Executed								
0 Con	0 Construction Started									
0 Con	0 Construction Completed									
0 Proj	0 Project(s) Deferred/Deauthorized	thorized								
0 Uni	0 Unfunded Project(s)	i								

CELMN-PM-M	CO, Project Stat	ASTAL WE	TLANDS P	LANNING, P	ROTTECTION	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)	VTION ACT TION AGEN	CY (EPA)		31-Mar-98 Page 22
PROJECT	BASIN	PARISH	ACRES	CSA	CSA COMS Start Const En	Const End	Bascine	Baseline Current **	*	Actual Obligations/
Priority List 5	\$									Samming
Bayou Lafourche Siphon	TERRE	ASCEN	428	19-Fcb-97 A			\$16,987,000	\$16,987,000	0 001	\$967,500
	Remarks:	Priority List 5 as authorized \$8,00 estimate of \$16,00 implemented. By presenting states by presenting states are being evaluated.	Sauthorized fi 8,000,000 for 116,987,000. F 8 statements at 1 of Work has I	unding in the am the FY 97 Phase Priority List 8 is s ublic has been inv I the four public n been provided to	ount of \$1,000,000 2 of this project. I cheduled to fund \$ volved in developm nectings or submit the project mailing	Priority List 5 authorized funding in the amount of \$1,000,000 for the FY 96 Phase I of this project. Priority List 6 authorized \$8,000,000 for the FY 97 Phase 2 of this project. In FY 98, Priority List 7 authorized \$7,987,000, for a project estimate of \$16,987,000. Priority List 8 is scheduled to fund \$7,500,000. The total project will cost \$24,487,000 if fully implemented. The public has been involved in development of the scope of the first phase in carrying out this project by presenting statements at the four public meetings or submitting written comments. A Responsiveness Summary and Revised Plan of Work has been provided to the project mailing list of 600. Several alternatives for diversion of freshwater	ce I of this projectist? Authorized 1 stanforized 1 will contain the first phase in this. A Responsive all alternatives footiers.	1. Priority List 6 87,987,000, for a ost \$24,487,000 carrying out this cress Summary diversion of fres	project if fully project and shwater	\$516,506
	Status:	The Cost Sh	wing Agreeme	int (CSA) was exe	cuted February 19	The Cost Sharing Agreement (CSA) was executed February 19, 1997. Draft report is proposed for May 1998.	t is proposed for	May 1998.		
	Total Priority List S	\$	428				\$16,987,000	\$16,987,000	100 0	\$967,500
l Project(s)	rcı(s)									\$516,506
l Cost	1 Cost Sharing Agreements Executed	Executed								
0 Cons	0 Construction Started									
0 Cons	0 Construction Completed	1								
0 Proje	0 Project(s) Deferred/Deauthorized	horized								
0 Unfu	0 Unfunded Projectifs)									

CII.MN-PM-M	COASTAL WER Project Status Summary	COASTAL WES		ANNING, I	HANDS PLANNING, PROTECTION AND RESTORATION ACT Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)	IND RESTORA	TION ACT	Y (EPA)		31-Mar-98 Page 23
				•	··········· STIRCHL)S ·······	•••••	•••••••	•••••• ESTIMATES ••••••	:	Obligations/
PROJECT.	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Baseline	Current	*	Expenditures
Priority List 6										
Bayou Bocuf/Verret Basin, Incr 1	TERRE	STMAR	•				\$150,000	3	0 0	\$112,500 \$0
	Remarks:	This was a \$250,000. dated Nove	3-phased project and Priority List Ember 18, 1997,	ct. Priority Liss i 8 was schedul EPA notified i	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.	g of \$150,000. Pr Total project cos ittee that they and	iority List 7 was so I was estimaled to LA DNR agree to	theduled to fund be \$500,000 B deauthorize the p	y lener roject.	
	Status:	EPA reque	sted deauthoriz	ation at the Jan	EPA requested deauthorization at the January 16, 1998 Task Force meeting.	orce meeting.				
	Total Priority List 6	•	0				\$150,000	3	0.0	\$112,500
l Project(s)	(s):									
0 Cost	0 Cost Sharing Agreements Executed	is Executed								
0 Const	0 Construction Started									
0 Const	0 Construction Completed									
l Projec	Project(s) Deferred/Deauthorized	uthorized								
0 Unfu	0 Unfunded Project(s)	7								

	Project Statu	s Summary	/ Report - La	ead Agency: I	NVIRONME	Project Status Summary Report - Lead Agency: ENVIRONMENTAL PROTTECTION AGENCY (EPA)	TION AGENC	'Y (EPA)		Fage :4 Actual
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	**	Obligations/ Expenditures
Priority List 7							5			
Lake Pelto Dedicated	TERRE	TERRE	89				\$6,314,700	\$6,314,700	0.001	\$0 \$0
Closure	Remarks:	This project	t was approved	l as an unfunded	This project was approved as an unfunded project on Priority List 7.	List 7.				
	Status:	Unfunded.								
	Total Priority List 7	7 1	89				\$6,314,700	\$6,314,700	100.0	80
l Project(s)	(s)									
0 Cost Sh	0 Cost Sharing Agreements Executed	s Executed								
0 Constr.	0 Construction Started									
0 Constru	0 Construction Completed									
0 Project	0 Project(s) Deferred/Deauthorized	ıthorized								
1 Unfund	1 Unfunded Project(s)	Í								

										Actual
PROJECT	BASIN	PARISH ACF	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Obligations/ Expenditures
Total ENVIRONMENTAL PROTECTION AGENCY, REGION 6	TAI. PROTECTIO ON 6	z	1,854				\$42,508,804	\$52,966,039 124.6 \$23,462,315 \$1,629,649	124.6	\$23,462,315 \$1,629,649
9 Project(s)	(s)						٠.			
7 Cost Si	7 Cost Sharing Agreements Executed	s Executed								
5 Constru	5 Construction Started									
l Constru	Construction Completed									
l Project	Project(s) Deferred/Deauthorized	Ithorized								
I Unfunc	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

i

		oject Status	s summary	Project Status Summary Report - Lead Agency, 1913 1, (2) 1111, its CERON (1 w.s.)	vgeney. Der i		(cw i) word			Actual
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	, °	Obligations/ Expenditures
Lead Agency: DEPT. OF THE INTERIOR, FISH	r. Of THE IN	TERIOR,	_	& WILDLIFE SERVICE	ICE		ı			
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	ition ceremony wa	Project completed May 30, 1996. A dedication ceremony was held in mid-summer 1996.	mer 1996.			
	Status:	Complete.								
Cameron Creole	CALC	CAMER	487	17-Apr-93 A	01-Oct-96 A	28-Jan-97 A	\$660.460	\$775,974	117.5	\$430,821
watersneu riyurologic Restoration	Remarks:									
	Status	Complete.								

PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const Ein	Const End	Baseline	Baseline Current %	*	Obligations/ Expenditures
Cameron Prairie Refiue 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,			,
	Status:	Complete.								
Sabine Wildlife Refuge Freeinn 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:									+0/.+61.1 ¢
	Status:	Complete.								
Total	Total Priority List	_	7,826				\$8,391,616	\$5,733,333	6.83	\$3,612,144

0 Project(s) Deferred/Deauthorized

0 Unfunded Project(s)

4 Construction Started
4 Construction Completed

	Pr	Project Status	Summary	Report - Lead	Agency: DEPT	Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (FWS)	ERIOR (FWS)			Page 28
PROJECT	BASIN	PARISH	ACRES	VS.	CSA Const Start Const En	Const End	Baseline	Baseline Current 5	• • •	Actual Obligations/ Expenditures
Priority List 2										
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	11711	\$1,027,731
	Remarks:	Constructic accepted at	on was comple a final inspec	Construction was completed on March 18, 1997. Initia 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.	
	Status:	Complete.								
T	Total Priority List 2	2	1,281	,			\$1,452,035	\$1,700,121	117.1	\$1,027,731
l Project(s)	•									
l Cost Shai	I Cost Sharing Agreements Executed	s Executed								
l Construct	Construction Started									
I Construct	Construction Completed									
0 Project(s)	0 Project(s) Deferred/Deauthorized	thorized								
0 Unfunded Project(s)	d Project(s)	,								

CELNIN-FM-M		Project Status	Summary Summary	Report - Lead	KOTEK TION , Agency: DEPT	COASTAL WELLANDS FLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT, OF THE INTERIOR (FWS)	ATION ACT ERIOR (FWS)			51-Mar-98 Page 29
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Bascline	Baseline Current %	*	Actual Obligations/ Expenditures
Priority List 3										
Sabine Refuge Structures (Hog Island)	CALC	CAMER	953	25-Oct-96 A	01-Oct-98	01-Jul-99	\$4,581,454	\$4,591,454	100.2	\$220,318 \$15,640
	Remarks:	The construct options. A n projected to c May 1998.	nction complet meeting held occur in July	ion date was reviso on March 21, 199 1999. Geotechnic	ed to accommodal 7 led to selection 3al investigations l	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.	Freview of alternat en option. Project i ed. Design comple	live structure des completion is nov ction is scheduled	ign w I for	
	Status:	Geotechnical	al investigatio	ns are complete. I	Jesign is schedule	investigations are complete. Design is scheduled for completion in May 98.	n May 98.			
To	Total Priority List	3	953				\$4,581,454	\$4,591,454	100.2	\$220,318
l Project(s)										
1 Cost Sharing Agreen 0 Construction Started	I Cost Sharing Agreements Executed O Construction Started	Executed								
0 Construct	0 Construction Completed									

0 Project(s) Deferred/Deauthorized

0 Unfunded Project(s)

										Actual
PROJECT	BASIN	PARISH AC	ACRES	CSA	CSA CONST Start Const En	Const End	Bascline	Baseline Current %	*	Obligations/
Priority List 5										
Grand Bayou / GIWW Freshwater Introduction	TERRE	LAFOU	1.609	31-Mar-98	66-daS-10	28-Feb-00	\$5,135,468	\$7,935,468	154.51	\$94,500 \$53,300
	Remarks:	The FWS, i the Cutoff (incorporatir three new w and authoriz	The FWS, in consultation with the Cutoff Canal Structure wo incorporating 16,000 acres of three new water control structuand authorize additional funds.	with residents, she with residents, she is would be at the less of wetlands local ructures. Project inds.	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.	cy personnel, has all. That decision Bayou Canal with on hold pending of	decided that the be has prompted an in in the project area i Task Force decisi	st site for installat nvestigation of through the addit ion to amend the p	ion of ion of project	
	Status:	The draft cost sha modifications. L. require amending until at least May	ost share agreeins. LA DNR is inding the cost IMay 1998. O	ment was accepte s now reviewing share agreement ither aspects of pi	The draft cost share agreement was accepted by LA DNR. The FWS regional office approved that agreement with some modifications. LA DNR is now reviewing the modified 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.	ne FWS regional o ement. The inclus ditions, thereby de tion may also be d	ffice approved that ion of additional fe laying execution o elayed.	i agreement with statures and fundin fithe cost share ag	some g would greement	
	Total Priority List 5	5	1,609				\$5,135,468	\$7,935,468	154.5	894,500
										\$53,300

0 Cost Sharing Agreements Executed

0 Project(s) Deferred/Deauthorized

0 Unfunded Project(s)

0 Construction Started 0 Construction Completed

PROJECT	Project Status Summary Report - Lead Agency: DEPL OF HHE IN IFRIOR (FWS)	PARISH	ACRES	CSA	CSA CONST START CONST EIN	Const End	Bascline	Baseline Current %	*	Actual Obligations/ Expenditures
Priority List 6										
Lake Boudreaux FW Introduction, Alt B	TERRE	TERRE	619	98-3nV-10	01-Aug-02	01-Aug-03	\$4,915,650	\$4,915,650	0.001	\$50,874
	Remarks:	In FY 97, Prior Priority List 8;	riority List 6 au 18; 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	15,650 is schedule	ed to be authorized	uo_	
	Status:	The FWS has conditions alternatives exist has determined to for the flood provises. The FWS Caillou and Pelto design can be conditions and design can be conditions.	as conducted pressive that the production system of protection systems. FWS has coordinated to be completed, a sharing agreem	nducted preliminary land rights investing where land rights are presently obtains that the project will not adversely affect effection system can be acquired and beg. Shas coordinated with the Corps of Engon. Opportunities to combine efforts an impleted, all environmental work is confing agreement and submitted it to DNR.	ghts investigation and you can be careful obtainable. Ersely affect their red and begin deforts of Enginee ne efforts and red work is completed in 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.	annel and determinovovided by the FV priority task is to DNR is scheduld prominen and provided and exist provided roject is further de forman and forman for	ned that several ch NS, Koch Pipeline confirm that land ed to work on land fredging of Bayou sufficient enginee slayed FWS has p	nannel rights trights social cring and cring and orepared	
Nutria Harvest for Wetland Restoration	TERRE	COAST		01-May-98			\$1,040,000	\$1,040,000	100.0	\$50,000
Бе то	Remarks:	NMFS letter of S Department of N Widlife Sercice, authorized \$640, Preliminary worl	r of September of Natural Res rcice. This is a 1640,000 in FY work will begi	NMFS letter of September 15, 1997, with the concurrence of the Upepartment 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.	he concurrence o at the Federal spo ject. In FY 97, P 8 is scheduled to f nutria meat ove	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. Preliminary work will begin on promotion of nutria meat overseas.	Vildlife Service an ject be transferred rized \$400,000 for The total project	id the Louisiana Ito the US Fish an r phase 1; Priority will cost \$2,140,00	nd 1.ist 7 00.	
	Status:	Preliminary work but will probably	work will begi bably not be co	will begin on promotion of m not be complete until May 98	of nutria meat ove 98.	k will begin on promotion of nutria meat overseas. A cost sharing agreement is being written by LA DNR, on the complete until May 98.	ng agreement is b	eing written by L.A	N DNR,	

PROJECT Tota 2 Project(s) 0 Cost Sharin										
Tota 2 Project(s) 0 Cost Sharin	BASIN	PARISH ACI	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Bascline Current %	**	Obligations/ Expenditures
2 Project(s) 0 Cost Sharin	Total Priority List 6	ş	619				0\$9\$\$6\$\$	089'886'8\$	0.001	\$100,874
0 Cost Sharin										
	0 Cost Sharing Agreements Executed	Executed								
0 Construction Started	n Started									
0 Construction Completed	n Completed									
0 Project(s) D	0 Project(s) Deferred/Deauthorized	orized								
0 Unfunded Project(s)	roject(s)									
Total DEPT. OF THE INTERIOR, FISH & WILDLIFE SERVICE	erior, fish &	a s i	12,288				\$25,516,223	\$25,916,026	97101	\$5,055,568 \$4,546,867
9 Project(s)										
6 Cost Sharin	6 Cost Sharing Agreements Executed	Executed								
5 Construction Started	n Started									
5 Construction Completed	n Completed									
0 Project(s) L	0 Project(s) Deferred/Deauthorized	norized								
0 Unfunded Project(s)	Project(s)	1								

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

Notes:

	-	roject Status	ymmany	עכועון - ויכיזם	Project Matus Summary Report - Lead Agency: DEPT, OF COMMERCE (NMES)					Actual
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current 6	• à°	Obligations/ Expenditures
Lead Agency: DEPT. OF COMMERCE, NATIONAL MARINE FISHERIES SERVICE	F. OF COMM	IERCE, NAT	TONAL M	ARINE FISH	ERIES SERVIC	Ħ	:			
Priority List 1										
Fourchon Hydrologic Restoration	TERRE	LAFOU	0				\$252,036	\$6,999	&	666 [°] 98
	Remarks:	In a meeting on (could be conduct concerned that u	on October 7, ducted by the at undesired C	, 1993, Port Four Port and they dis Sovernment / ger	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.	VMFS personnel the project pursued be ment would result	nat any additional w secause they questiv after implementation	vork in the proje on its benefits ar on.	ct area 1d are	
		NMFS has rec 1994 meeting.	commended t	o the Task Force	NMFS has recommended to the Task Force that the project be deauthorized and the Task Force concurred at the July 14, 1994 meeting.	deauthorized and	the Task Force con	curred at the Jul	y 14	
	Status:	Deauthorized								
Lower Bayou LaCache Hydrologic Restoration	Terre	TERRE	0	17-Apr-93 A			\$1,694,739	\$99,625	8.9	\$29,69 \$ \$29,625
	Remarks:	In a public hearin closure of the two	aring on Sept	tember 22, 1993, st connections be	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.	n the project area, Caillou and Bayou	users strenuously o 1 Terrebonne.	bjected to the pr	pəsodo	
		NMFS received forwarded the lett	ved a letter fro e letter 10 COI	a letter from LA DNR, dated Febru ter to COE for Task Force 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.	5, recommending	deauthorization of	the project. NM	IFS	

Status: Deauthorized.

	Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMES)	inject statt	s summary		d Agency: DEF	I. OF COMMI	Figure Status Summary Report - Lead Agency: DEPT, OF COMMERCE (NMFS)			Page 14
PROJECT	BASIN	BASIN PARISII ACRES	ACRES	CSA	CSA CONSTSTAT CONSTEN	Const End	Bascline	Baseline Current	÷	Actual Obligations/
	Total Priority List 1	и 1	0						•	Expenditures
		•					31.946.775	\$106,625	5.5	\$106,625
2 Project(s)	(s)									\$106.625
l Cost S	Cost Sharing Agreements Executed	s Executed								
0 Constr	0 Construction Started									
0 Constr	0 Construction Completed									
2 Project	2 Project(s) Deferred/Deauthorized	uthorized								
0 Unfun	0 Unfunded Project(s)									

CELMN-PM-M

CELMN-PM-M	COA	STAL WE	ILANDS P Summary	LANNING, PE Report - Lead	OTECTION / Agency: DEPT	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)	NTION ACT RCE (NMFS)			31-Mar-98 Page 35
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const Ein	Const End	Baseline	Baseline Current %	ò.	Obligations/ Expenditures
Priority List 2							,			
Atchafalaya Sediment Delivery	ATCH	STMRY	2,232	01-Aug-94A	25-Jan-98 A	21-Mar-98 A	018'206\$	\$2,051,040	225.91	\$1,508,409
	Remarks:	Project cost	increase was	approved by the T	ask Force at the Ja	Project cost increase was approved by the Task Force at the January 16, 1998 meeting.	eling			
	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 \$3,032,867
	Remarks:	Project cost	increase was	approved by the T	ask Force at the Ja	Project cost increase was approved by the Task Force at the January 16, 1998 meeting.	ecting.			
\	Status:	Constructio	Construction contract awarded and completion by November 24, 1998.	arded and notice to r 24, 1998.	proceed issued J	Construction contract awarded and notice to proceed issued January 28, 1998. Construction underway and expect completion by November 24, 1998.	Construction under	rway and expect		

CELMN-PM-M	COA	STAL WE	TLANDS F	PLANNING, PI Report - Lead	ROTECTION 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	CSA	CSA Const Start Const Enc	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 \$881,775
	Remarks:	Constructio gas canals ii materials ca Task Force	n for the proje n Area I was on the found to approved proj	ect will be accomp completed Decem backfill the canal ect design change	lished in two phas ber 22, 1995. Phi fronting the Gulf and project cost ii	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.	uction on the woox in Area 2 has been Il construction cor er 18, 1996 meetir	den plugs in the oi 1 delayed until sui mpleted in May 19 18.	il and itable 997.	
	Status:	Complete.	Closing out co	operative agreeme	ent grant between	Complete. Closing out cooperative agreement grant between NOAA and LA DNR.	Ä.			
	Total Priority List 2	2	4,767				\$6,113,456	\$10,775,103	176.3	\$8.008,604
3 Project(s)	(s									
3 Cost Sh	3 Cost Sharing Agreements Executed	Executed								
3 Constru	3 Construction Started									
2 Constru	2 Construction Completed									
0 Project(0 Project(s) Deferred/Deauthorized	horized								

0 Unfunded Project(s)

	ď	Project Status	is Summary	Report - Lead	Summary Report - Lead Agency: DEPT, OF COMMERCE (NMFS)	I OI COMMI	:RCE (NMFS)) oa r.
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	• °	Actual Obligations/ Expenditures
Priority List 3										
Bayou Perot ' Bayou Rigolettes Marsh	BARA	JEFF	0	01-Mar-95 A			\$1,835.047	\$1.844,750	5 001	\$1,389,483
Restoration	Remarks:	A feasibility questionable reconsider the January 16, 1	y study condu le. LA DNR H the project wii 1998 Task FG	study conducted by LA DNR i LA DNR has indicated a will e project with potential of com 1998 Task Force meeting.	indicated that poss linguess to deauthe bining this with tw	ible wetlands bend prize the project. vo other projects in	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.	tion of this project DNR had asked to roject deauthorize	o o d at	
	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
#1	Remarks:									\$1,465,20 9

Design complete March 1998. EA and permitting underway. Construction is to be as scheduled.

Status:

PROJECT BASIN PARISH ACRES CSA CONSTITUTION Estimates Estimation											Actual
ration Remarks: Status: Status: Remarks: Remarks: Remarks: Remarks: Remarks: Construction Status Construction Started Construction Started Construction Completed Project(s) Deferred/Deauth Unfunded Project(s)	PROJECT	BASIN	PARISH	ACRES	CSA	SCHEDULES Const Start	Const End	Bascline	Baseline Current %	%	Obligations/ Expenditures
Status: Status: Status: Remarks: Remarks: Remarks: Total Priority List Total Priority List Construction Started Construction Started Project(s) Project(s) Unfunded Project(s)	Chapcau nent &	TERRE	TERRE	806	01-Mar-95 A	01-Jul-98	31-Mar-99	\$4,149,182	\$5.032,273	121.3	199°206° 5 \$
Status: BARA Remarks: Remarks: Remarks: Remarks: Remarks: Remarks: Catal Priority List Total Priority List Construction Started Construction Started Construction Completed Project(s) Deferred/Deauth Unfunded Project(s)	ologic Restoration	Remarks:	Field survey	ying and geote	cchnical data collec	tion completed ir	1 May 1996.				
nore BARA Remarks: Remarks: Status: Status: Total Priority List Cost Sharing Agreements E Construction Started Construction Completed Project(s) Deferred/Deauth Unfunded Project(s)		Status:	Land rights	acquired for s	site of plug, but oth	ers related to the	area to be filled ar	e in question.			
Remarks: Remarks: Remarks: Remarks: Total Priority List Project(s) Construction Started Construction Started Project(s) Deferred/Deauth Unfunded Project(s)								·			
Remarks: Status: Status: Total Priority List Project(s) Construction Started Construction Completed Project(s) Deferred/Deauth Unfunded Project(s)	Salvador Shore ction Demo	BARA	STCHA	921	01-Mar-95 A	02-Jul-97 A	86-Int-10	\$1,444,628	\$2,565,894	177.6!	\$1,924,421
Status: Total Priority List Project(s) Cost Sharing Agreements E Construction Started Construction Completed Project(s) Deferred/Deauth Unfunded Project(s)		Remarks:									
Total Priority List 3 Project(s) Cost Sharing Agreements Executed Construction Started Construction Completed Project(s) Deferred/Deauthorized Unfunded Project(s)		Status:	Phase I was Construction	s completed S n is scheduled	ep 97. Phase 2 is sl I to begin in April I	horeline protectic 998 and will con	on between Bayou nplete July 1998.	desAllemnands an	nd Lake Salvador.		
4 Project(s) 4 Cost Sharing Agreements Executed 1 Construction Started 0 Construction Completed 1 Project(s) Deferred/Deauthorized 0 Unfunded Project(s)	Tota	l Priority List		869.1				\$9,475,828	\$12,011,668	1268	\$9,395,081
4 Cost Sharing Agreements Executed 1 Construction Started 0 Construction Completed 1 Project(s) Deferred/Deauthorized 0 Unfunded Project(s)	4 Project(s)		i								
1 Construction Started 0 Construction Completed 1 Project(s) Deferred/1)eauthorized 0 Unfunded Project(s)	4 Cost Sharin	g Agreements	Executed								
0 Construction Completed 1 Project(s) Deferred/Deauthorized 0 Unfunded Project(s)	1 Construction	n Started									
l Project(s) Deferred/Deauthorized 0 Unfunded Project(s)	0 Construction	n Completed									
0 Unfunded Project(s)	l Project(s) D	eferred/Deaut	horized								
	0 Unfunded P	roject(s)									

CELMN-PM-M	COV	COASTAL WETLA Project Status Sur	TLANDS P	NDS PLANNING, PROTECTION AND RESTORATION ACT mmary Report - Lead Agency: DEPT. OF COMMERCE (NMFS.	OTECTION . Agency: DEP	AND RESTOR I. OF COMMI	ASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)			31-Mar-98 Page 39
PROJECT	BASIN	PARISII	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	86-unf-10	30-Mar-99	\$5,752,404	\$7,188,005	125.0	\$6,098,279 \$72,474
	Remarks:									
	Status:	Design com	plete March 19	Design complete March 1998. EA and permitting underway. Construction is to be as scheduled	nitting underway.	Construction is to	o be as scheduled.			
Eden Isles East Marsh Restoration	PONT	STTAM	0				\$5,018,968	\$1,380	0 0	541,347
	Remarks:	NMFS letter Bids were p deauthorized	r of September laced twice to a d at January 16	NMFS letter of September 8, 1997 requests the CWPP Bids were placed twice to acquire the land; both times deauthorized at January 16, 1998 Task Force meeting.	the CWPPRA Tas both times they w : meeting.	k Force to move f ere rejected due tα	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.	norization of this vate developers.	project. Project	•
	Status:	Deauthorized.	Ġ.							

CEI.MN-PM-M	VO)	NSTAL WE	TLANDS PI s Summary	Report - Lea	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT, OF COMMERCE (NMFS)	AND RESTOR F. OF COMMI	ATION ACT FRCE (NMFS)			31-Mar-98 Page 40
PROJECT	BASIN	PARISH ACRES	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	, %	Actual Obligations/ Expenditures
	Total Priority List	4	215				\$10,771,372	\$7,189,385	66 7	\$6,139,626 \$104,446
2 Project(s)	(s)						,			
I Cost Sh	Cost Sharing Agreements Executed	is Executed								
0 Constru	0 Construction Started									
0 Constru	0 Construction Completed									
1 Projecti	Project(s) Deferred/Deauthorized	uthorized								
0 Unfund	0 Unfunded Project(s)									

PROJECT BASIN Priority List 5 Little Vermillon Bay TECHE Sediment Trapping Remarks: Status: 1	PARISH		•	······ SETACHOS ·····	•	<u>-</u>	****** SHLVWILSH ******	:	Actual Oblinations
y TECHE Remarks: Status:		ACRES	CSA	Const Start	Const End	Baseline	Current	:°	Expenditures
y TECHE Remarks: Status:									
Remarks: Status:	VERMI	14	22-May-97 A	01-Sep-98	31-Jan-99	\$940,065	\$940,100	100.0	\$702,576
									C60'6
	Minor constr anticipated d	truction slip fi due to extensi	Minor construction slip from April 1998 to September 1998. anticipated due to extensive borings and analysis.	September 1998. alysis.		On schedule. Soils investigation on-going - longer than	n-going - longer t	lhan	
Myrtle Grove Siphon BARA	PLAQ	1,119	20-Mar-97 A	01-May-99	01-May-00	\$10,500,000	\$10,500,000	0'001	\$3,372,500
Remarks: 7	The 5th Prior authorized fu Total project	ority List auth funding in the st cost is estim	rity List authorized funding in the an inding in the amount of \$6,000,000 (cost is estimated to be \$15,525,950).	he amount of \$4,5,000 for FY 97. H	500,000 for the F Priority List 8 is	The 5th Priority List authorized funding in the amount of \$4,500,000 for the FY 96 Phase 1 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.	s project. Priority he remaining \$5.0	y List 6 300,000.	
Status: [Early site investi project corridor.	ivestigations h idor.	ave been initiated	. Landowner nego	otiations needed	Early site investigations have been initiated. Landowner negotiations needed to obtain easements for rights-of-way for project corridor.	for rights-of-way	, for	

CELMN-PM-M	33	STAL WE	TLANDS PI s Summary	LANNING. Report - Lea	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)	AND RESTOR	ATTON ACT RCE (NMFS)			31-Mar-98 Page 42
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Obligations/ Expenditures
	Total Priority List S	\$ 1	1,560				\$11,440,065	\$11,440,100 100.0	0 001	\$4,075,076 \$23,472
C4	2 Project(s)									
14	2 Cost Sharing Agreements Executed	s Executed								
5	0 Construction Started									
9	0 Construction Completed									
9	0 Project(s) Deferred/Deauthorized	thorized								
9	0 Unfunded Project(s)									

CELMN-PM-M	COA	COASTAL WETLA Project Status Sur	TLANDS P	ASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT, OF COMMERCE (NMFS)	OTECTION A	AND RESTOR	ATION ACT RCE (NMFS)			31-Mar-98 Page 43
PROJECT	BASIN	PARISH ACRES	ACRES	CSA	COSA CONST START CONST EN	Const End	Baseline	Baseline Current 98	• à°	Actual Obligations/ Expenditures
Priority List 6										
Black Bayou Hydrolovic Restoration	CALC	CAMER	3,594	15-Apr-98	01-Jan-99	31-Jul-99	\$6,316,800	\$6,316.806	100.0	\$5,681,403
	Remarks:									
	Status:	Cooperativ	c Agreement ii	Cooperative Agreement in NMFS Washington office. Award of cooperative agreement expected April 1998.	on office. Award	of cooperative ag	reement expected	April 1998.		
Delta-Widc Crevasses	DELTA	PLAQ	2,386	15-Apr-98	96-8nV-10	96-13Q-10	\$2,736,950	\$2,736,950	0 001	\$2,456,638
	Remarks:	In FY 97, F to fund \$2,	Priority List 6 a 736,950. Tota	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 to fund \$2,736,950. Total project is scheduled to cost \$5,473,900.	of \$2,736,950 for	r Phase 1 of this 2- ,900.	phased project. P	riority List 8 is sc	heduled	

Status: Cooperative Agreement in NMFS Washington office. Award of cooperative agreement expected April 1998.

	Ę	oject Statu	is Summary	Report - Lead	Agency: DEP	Project Status Summary Report - Lead Agency: DEPT, OF COMMERCE (NMFS)	Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)			Page 44
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Bascline	Baseline Current %	* *	Actual Obligations/ Expenditures
Jaws Sediment Tranning	TECHE	TECHIE STMAR	1.999	15-Apr-98	99-un-10	31-May-99	\$3,167,400	\$3,167,400	0.001	\$2,847,036
٥	Remarks:						·			00
	Status:	Cooperativ	c Agreement ii	n NMFS Washing	șton office. Coope	Cooperative Agreement in NMFS Washington office. Cooperative agreement award expected April 1998.	ward expected Apı	ril 1998.		
	Total Priority List 6	9	979.7				\$12,221,150	\$12,221,156 100 0 \$10,985,077	0 001	\$10,985,073

0 Cost Sharing Agreements Executed

3 Project(s)

0 Project(s) Deferred/Deauthorized

0 Unfunded Project(s)

0 Construction Started 0 Construction Completed

										Actual
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	• °°	Obligations/ Expenditures
Priority List 7										
Grand Terre Vegetative Plantines	BARA	JEFF	127	86-Inf-\$1	15-Mar-99	15-Apr-99	\$928,900	\$928,900	0.001	S
U	Remarks:									0
	Status:	Draft coope	rative agreeme	Draft cooperative agreement being developed.	P.					
Pecan Island Terracing	MERM Remarks:	VERMI	442	·	15-Feb-00	15-Jun-00	\$2,185,900	\$2,185,900	100.0	\$0 \$0

Status: Draft cooperative agreement being developed by LA DNR.

										•
PROJECT BA	BASIN	PARISH	ACRES	CSA	CSA Const Start Const Enc	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
Total Priority List 7	rity List	7	695				\$3,114.800	\$3,114,800	0 001	93 93
2 Project(s)										•
0 Cost Sharing Agreements Executed	cements l	Executed								
0 Construction Started	ted									
0 Construction Completed	npleted									
0 Project(s) Deferred/Deauthorized	d/Deauth	orized		•						
0 Unfunded Project(s)	(s)									
Total DEPT. OF COMMERCE, NATIONAL MARINE FISHERIES SERVICE	IATIONA VICE	ار	16,788	·			\$55,083,446	\$56,858,837	103.2	\$38,710,089 \$11,702,672
18 Project(s)										
11 Cost Sharing Agreements Executed	eements	Executed								
4 Construction Started	je Je									
2 Construction Completed	pleted									
4 Project(s) Deferred/Deauthorized	d/Deauth	orized								
0 Unfunded Project(s)	(9)									

.

1.000	1				STINGHILDS		S:1	ESTIMATES	•	Obligations/
rroji:C i	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Baseline	Current	°	Expenditures
Lead Agency: DEPT. OF AGRICULTURE, NAT	PT. OF AGRIC	ULTURE,	NATURAL	RESOURCES	CONSERVA	TURAL RESOURCES CONSERVATION SERVICE	3			
Priority List 1										
BA-2 GIWW to Clovelly Wetland	BARA	LAFOU	175	17-Apr-93 A	21-Apr-97A	28-Aug-98	\$8,141,512	\$8,347,106	102.5	\$1,240.913
Restoration	Remarks:	The project to install mo plug.	has been divi	ded into a number structures and is c	of smaller contra complete. The sec	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.	dite implementatic install bank protect	on. The first cont ion, one weir and	ract was d one	
		Contract 1: Contract 2: Contingency:	Begin: Begin:	May 97 Comple Jun 98 Comple	Complete: 30 Nov 97 Complete: 28 Aug 98	\$ 646,691 \$2,826,968 \$ 765,575				
	Status:	The first cor Construction planning an	The first construction contract is com Construction completion of the secor planning and some land rights issues	of the second consignities.	The second cons arct slipped from	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.	expected to be ad August 1998 becau	vertised in May se of general pro	1998. Jeet	
Vegetative Plantings Demo - Dewitt-	MERM	VERMI	312	17-Apr-93 A	11-Jul-94 A	26-Aug-94 A	\$191,003	\$79,448	4.6	\$79,448 \$79,448
Rollover			•							

Status: Complete and deauthorized.

PROJECT	5. 5.	ject Status	Summary R	Project Status Summary Report - Lead Agency: DEPT, OF AGRICULTURE: (NRCS)	rgency: DEFT.	TODINOV TO	ONE (INVES)			Actual
	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Bascline	Baseline Current %	**	Obligations/ Expenditures
Vegetative Plantings Demo - Falgout Canal	TERRE	TERRE	\$2	17-Apr-93 A	30-Aug-96 A	30-Dec-96 A	195'661	\$180,296	124.7	\$118,532
	Remarks:	Sub-project	of the Vegetal	iive Plantings proj	ect. Wave-stillin	Sub-project of the Vegetative Plantings project. Wave-stilling devices are in place. Vegetative plantings are in place.	ce. Vegetative pl	antings are in pla	ace.	
	Status:	Complete.								
Vegetative Plantings Demo - Timbalier	TERRE	TERRE	691	17-Apr-93 A	I 5-Mar-95 A	30-Jul-96 A	\$372,589	\$411,602	110.5	\$333,019
Island	Remarks:	Sub-project of	of the Vegetat	the Vegetative Plantings project.	ect.					210.0%
		The contrac	t to install the	sand fences has b	een completed and	The contract to install the sand fences has been completed and the vegetation was planted during the summer of 1996.	s planted during tl	he summer of 19	.96	
	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 Vegetat	Sub-project of the Vegetative Plantings project.	ect.					81.11.143

Status: Complete.

CFLMN-PNI-M		OASTAL WETI, Project Status Su	TLANDS I Summary F	LANNING, I Report - Lead	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT, OF AGRICULIURE (NRCS)	AND RESTOR OF AGRICUE	ATION ACT	3)		31-Mar-98 Page 49
PROJECT	BASIN	PARISH ACRES	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
	Total Priority List	-	808				\$9,063,612	\$9,243,609	102.0	\$1.926.810
• •	5 Project(s)									\$2,074,250
•	5 Cost Sharing Agreements Executed	s Executed								
•	5 Construction Started									
4	4 Construction Completed									
-	Project(s) Deferred/Deauthorized	thorized								
0	0 Unfunded Projectics									

	Pro	ect Status	Summary	Project Status Summary Report - Lead Agency: DEPT, OF AGRICULTURE (NRCS)	Agency: DEPT.	OF AGRICUI	TURE (NRCS			Dage Co
PROJECT	BASIN	PARISH	ACRES	VS.)	CSA Const Start Const In	Const End	Baseline	Baseline Current **	• •	Actual Obligations/ Expenditures
Priority List 2							÷			
Brown Lake	CALC	CAMER	274	28-Mar-94 A	15-Jut-98	01-May-99	\$3,222,800	\$3,222,666	0 001	\$240,196
	Remarks:	Land rights		nay be a problem holding up construction start.	onstruction start.					
	Status:	Contract awa	vard has been dredged mal	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 relocation of a pipeline. Contract award is expected in May 98.	irily to the length ation of a pipeline	of time needed to c	omplete the permi	itting process, ben 98.	eficial	
Caemarvon Outfall Management	BRET	PLAQ	802	13-Oct-94 A	01-Oct-98	01-Sep-99	\$2,522,199	\$2,634,353	104.4	\$268,687 \$149,573
	Remarks:	NRCS corresponden corresponden 1997, LA DN deauthorization A meeting warresolved.	espondence dence of Decei on R had state tion at July 1 was scheduler	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.	1996 requested I irred with NRCS i ght be able to be i eting. Further di between NRCS, I	DNR to evaluate pr to begin formal der resolved, and reque iscussion with primi LA DNR and primi	oject for possible of nuthorization of the ested that NRCS not ary landowner put ary landowner to s	deauthorization. I e project. As of J of proceed with for I deauthorization ce if problems cov	ONR fuly 1, ormal on hold. uld be	
	Status:	This project construction	was propose schedule wi	This project was proposed for deauthorization but was referred for revisions at the request of the landowners and DNR. The construction schedule will slip and the cost may change.	on but was referre may change.	ed for revisions at t	the request of the la	andowners and DI	NR. The	

	Z D	i tojeci atatus au		THE TAIL THE TAIL THE TAIL TO THE TAIL THE THE TAIL THE TAIL THE TAIL THE TAIL THE T				-		Page 51
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Bascline	Baseline Current %	*	Obligations/ Expenditures
Freshwater Bayou	MERM	VERMI	1.604	17-Aug-94A	29.Auk-94A	30-Apr-98	\$2,770,093	\$2,780,100	100 4	\$1.273,095
	Remarks:	The project cost saving removal. C	i has been expa s. Constructio Option was eve	The project has been expedited in order to allow the us cost savings. Construction is included as an option in removal. Option was exercised on September 2, 1994.	allow the use of st roption in the Co ser 2, 1994.	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.	the Wax Lake Out ontract for the Wax	ilet Weir at a subst i Lake Outlet Weir	antial	51.515.16
		The rock bank p installing water	ank protection ater control st	protection was Phase I of this project and was comp control structures to benefit the interior marsh area.	s project and was the interior marsl	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.	ıary 26, 1995. Pha	is e II will consist o	<u> </u>	
	Status:	Constructio complete.	m completion :	slipped from Dec	97 to Apr 98. Cc	Construction completion slipped from Dcc 97 to Apr 98. Construction is being done by landowner. Project almost complete.	done by landown	er. Project almost		
Fritchie Marsh	PONT	STTAM	1,040	21-Feb-95 A	30-Aug-98	01-Mar-99	\$3,048,389	\$2,875,475	94.3	\$248.557
	Remarks:	Detays in particular of the pa	roject construc Ticials express	tion start occurred ed concerns about	f as a land owner drainage that req	Delays in project construction start occurred as a land owner had changed his position regarding prompting design changes, and locat officials expressed concerns about drainage that required additional investigations.	osition regarding p	rompling design c	hanges,) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A
	Status:	Delays in project local officials exempected to be a	roject construc ils expressed co be awarded in	tion start occurred oncerns about draitime to start consi	I because a landovinage that required truction in Augus	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.	his position, promy igations. The cons is could be a proble	pting design chang struction contract i em but we don't ka	es, and	

CT.LMN-PM-M	00 E	COASTAL WET	TLANDS I	LANNING, P Report - Lead A	ROTLECTION , Agency: DEPT.	FLANDS PLÁNNING, PROTECTION AND RESTORATION ACT Summary Report - Lead Agency: DEPT, OF AGRICULTURE (NRC	OASTAL WETLANDS PLÂNNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)			31-Mar-98 Page 52
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const Fnd	Baseline	Bascline Current %	*	Actual Obligations/ Expenditures
Hwy 384	CALC	CAMER	150	13-0x1-94A	30-Aug-98	28-Feb-99	\$700,717	\$756,562	1080	\$76.226
	Remarks:	Difference owner title	Difference of opinion between agenci owner title issues are not yet resolved	ween agencies con yet resolved.	oceming impacts a	nd benefits resulte	Difference of opinion between agencies concerning impacts and benefits resulted in delays, and multiple, complex land- owner title issues are not yet resulved.	ultiple, complex l	and-	
	Status:	Construction to be secured delays, and m 1998.	n start slipped d from one la multiple, com	from November I nd owner. Differe plex land-owner ti	1997 to August 199 nce of opinion bet itle issues are not y	98 because of land iween agencies coryet resolved. Con	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.	iten agreements r nd benefits result be advertised in	emain ed in June	
Jonathan Davis Wetland	BARA	JEFF	910	05-Jan-95 A	15-May-98	15-Nov-99	\$3,398,867	\$4,046,673	161	\$1,728.673
	Remarks:	The project contract will	will be constr I install the ba	The project will be constructed in two contracts. The first contract w contract will install the bank protection and the remaining structures.	acts. The first con the remaining stru	itract will install the	The project will be constructed in two contracts. The first contract will install the majority of the structures. The second contract will install the bank protection and the remaining structures.	ructures. The se	puos	3 277.515
	Status:	Construction construct weil advertised in	n start slipped Pir and plugs v n fall 98.	from December 19 vas advertised in F	997 to May 98 bec ebruary 1998. Sc	cause of planning a	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.	First contract to nd will probably	<u>a</u>	
Mud Lake	CALC	CAMER	1,520	24-Mar-94 A	01-Oct-95 A	15-Jun-96 A	\$2,903,635	\$2,807,225	1.96	\$1,476,279
	Remarks:	Bid opening control struc	was August 8 tures are insta	, 1995 and contra Illed and the veget	ict awarded to Cra	Bid opening was August 8, 1995 and contract awarded to Crain Bros. Constructio control structures are installed and the vegetation installed in the summer of 1996.	Bid opening was August 8, 1995 and contract awarded to Crain Bros. Construction started in early October 1995. control structures are installed and the vegetation installed in the summer of 1996.	/ October 1995.	Water	797.905.70
	Status:	Complete.								

CELMN-PM-M	COA	STAL WE	TLANDS I Summary I	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT, OF AGRICULTURE (NRCS)	ROTTECTION , gency: DEPT.	AND RESTOR OF AGRICUL	ATION ACT TURE (NRCS)			31-Mar-98 Page 53
PROJECT	BASIN	PARISH ACT	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
Vermilion Bay/Boston Canal	ТЕСНЕ	VERMI	378	24-Mar-94 A	13-Scp-94A	30-Nov-95 A	\$1,008,634	\$965,473	1.36	\$690,231
	Remarks:	The structu	iral portion of	The structural portion of the project - shoreline protection - is complete	line protection - is	complete				
		The vegeta	tive portion of	The vegetative portion of the project is complete.	plete.					
	Status:	Complete.								
Ε	Total Priority List 2	1 2	6,278				\$19,575,334	\$20.088,527	102.6	\$6,001,943
8 Project(s)	•									
8 Cost Sha	8 Cost Sharing Agreements Executed	s Executed								
3 Construc	3 Construction Started									
2 Construc	2 Construction Completed									
0 Project(s	0 Project(s) Deferred/Deauthorized	thorized								
0 Unfunded Project(s)	d Project(s)									

	Pro	Project Status Sum	Summary F	tepon - Lead /	ROTECTION Vgency: DEPT.	impo Prandina, FROTECTION AND RESTORATION ACT imary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)	ATION ACT TURE (NRCS			31-Mar-98 Page 54
PROJECT	BASIN	PARISH ACI	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 be company in the ar Federal funding.	yed because o the area. In a ding.	f landowner conc ddition, CSA revi	erns about permit	conditions regardii Ito accommodale I	ng monitoring, and the landowner's int	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.	npeline non-	7.77
	Status:	Permitting and des will help cost share slipped from May	and design con st share the pro n May 1998 to	ign conditions have resul e the project. The revised 1998 to August 1998.	ted in the CSA be. I CSA is expected	ing modified to als to be complete in	o include Fina Oil March 98. The co	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.	oth .	
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 set. The fir	provides for n st contract for	project provides for maintenance on an as-neco The first contract for maintenance is complete.	r as-necded basis, to symplete.	herefore, a definit	e design completic	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.	ž	70°C1

Status: The first contract for maintenance work is complete. The second contract has been awarded.

	2	ject Status	Summary	Project Status Summary Report - Lead Agency: Dieta, Of Actric Of LORE (1980)	gency: DEFT.	OF ACIRICOL	LURE (INKL)	_		Actual
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Bascline 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 put on hold	LA DNR's placement of the put on hold 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 deauthorizal	lion list caused de	lays, as did the C!	SA being	
	Status:	Construction start date construct the project. budget modifications.		start date slipped from November 1997 to March 1998 because of concern about the source of shell to project. Site inspection for bidder was held January 12, 1998. Concern for a source of shell may require fications. Contract awarded February 1998; notice to proceed March 1998.	iber 1997 to Marcl idder was held Jan ebruary 1998; noti	h 1998 because of mary 12, 1998. Coice to proceed Mar	concern about the encern for a source ch 1998.	source of shell to	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	9.911	\$58,286
	Remarks:									
	Status:	Complete.	Deauthoriza	Deauthorization 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-wa arisen about	vay to gain ad It rights to op	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 m n.	sultiple landowner	coordination, and	additional questi	ons have	
	Status:	Access pro	blems have b bruary 2000 a	Access problems have been resolved and design is currently proceeding; the construction schedule slipped from September 1998 to February 2000 as design is finalized.	esign is currently p d.	proceeding; the cor	nstruction schedul	e slipped from Sc	ptember	

10000										Actual
PROJEC I	BASIN	PARISH	ACRES	CSA	CSA COUST Start COUST Ein	Const End	Baseline	Baseline Current	?	Obligations/ Expenditures
West Pointe-a-ta- Hache Outfall	BARA	PLAQ	1,087	05-Jan-95 A	15-Nov-99	15-Dec-00	881,148	\$4.079,556	463.0.1	\$98,923
Management	Remarks:	Initial cost o	estimate is too	low. Additional \$	3.2 million reque	Initial cost estimate 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	£68.7 .
	Status:	Project put	on hold while	waiting for estimat	te increase. Const	Project put on hold while waiting for estimate increase. Construction start slipped from August 1998 to November 1999.	d from August 19	98 to November	6661	
White's Ditch Outfall Management	BRET	PLAQ	0	13-Oct-94 A			\$756,134	\$23,075	3.1	\$102,335
	Remarks:	LA DNR co meeting	ncurred with N	VRCS to deauthori.	ze the project. Pr	LA DNR concurred with NRCS to deauthorize the project. Project deauthorized at the January 16, 1998 Task Force meeting.	at the January 16	, 1998 Task Forc	5	670.624
	Status:	Deauthorized.	Ġ							
Tot	Total Priority List 3	3	6,472				\$17,195,698	\$20,061,690	116.7	\$6,217,932

7 Cost Sharing Agreements Executed

7 Project(s)

1 Project(s) Deferred/Deauthorized

0 Unfunded Project(s)

3 Construction Started
1 Construction Completed

CELMN-PM-M		STAL WE ject Status	TLANDS Summary	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT, OF AGRICULTURE (NRCS)	COLECTION Representation (Color)	AND RESTOR OF AGRICUI	ATION ACT TURE (NRCS)			51-Mar-98 Page 57
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %	• 39	Actual Obligations/ Expenditures
Priority List 4										
Bayou L'Ours Ridge Hydrologic Restoration	BARA	LAFOU	737	23-Jun-97 A	66-unf-10	00-Int-10	\$2,418,676	\$2,418,700	0 001	\$280,472
	Remarks:									
	Status:	Project on	schedule. Pe	Project on schedule. Permit applications and evnironmental assessments are proceeding.	id 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	100 9	\$181,246
	Remarks:									
	Status:	The project No date for	The project is being coordinated No date for resolution scheduled	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.	OE dredging prog	gram. COE perm	it is in the process o	of reviewing the	permit	

	Pro	Project Status Su	Summary	Report - Lead /	Project Status Summary Report - Lead Agency: DEPT, OF AGRICULTURE (NRCS)	OF AGRICUI	TURE (NRCS			Page 58
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Slart Const En	Const End	Bascline	Bascline 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 is	n locating an	appropriate site for	Difficulty in locating an appropriate site for demonstration and difficulty in addressing engineering constraints.	d difficulty in add	iressing engineerin	g constraints.		•
	Status:	CSA execution an appropriate settled by the e	CSA execution slipped from Septe an appropriate site for demonstrati settled by the end of January 1998	rom September 19 monstration and d tary 1998.	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.	Construction sched	fule 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	0.001	\$1,991,178
	Remarks:									77.718
	Status:	Acquisition of	of land right	land rights are complete; project on schedule.	ject on schedule.					
Plowed Terraces Demo	CALC	CAMER	0	15-Apr-98	01-Aug-98	30-Jan-99	\$299,690	\$299,690	100.0	\$44,542
	Remarks:	Project was put program. The	put on hold p he project is o	on hold pending results of an opposed in groups of an opposed is currently proceeding.	ton hold pending results of an earlier terraces demonstration project being paid for by the Gulf of Mexico project is currently proceeding.	demonstration pro	ject being paid for	by the Gulf of M	lexico	95,150
	Status:	CSA execution Project initially program. Proje	ion slipped fi ally put on he roject current	slipped from November 199 put on hold pending results ct currently proceeding.	slipped from November 1997 to April 1998. Construction start slipped from April 1998 to August 1998. put on hold pending results of an earlier terraces demonstration project being paid for by the Gulf of Mexico ct currently proceeding.	Construction start	slipped from April project being paid	1 1998 to August for by the Guff o	1998. of Мехісо	

CEEMN-PM-M	COA Proj	COASTAL WEILA Project Status Sum	Summary R	cport - Lead	OASTAL WEILANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)	AND RESTOR OF AGRICUI	ATION ACT			51-Mar-98 Page 59
PROJECT	BASIN	PARISH ACR	ACRES	CSA	CSA Const Start Const En	Const End	Baseline	Baseline Current %		Obligations/ Expenditures
	Total Priority List	4	2,172				\$7,501,368	\$7,547,797	9.001	\$2,570,729 \$85,792
5	5 Project(s)									
3 (3 Cost Sharing Agreements Executed	Executed								
0	0 Construction Started									
0	0 Construction Completed									
0	0 Project(s) Deferred/Deauthorized	thorized		•						
0	0 Unfunded Project(s)									

										Actual
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const Ein	Const End	Baseline	Baseline Current %	*	Obligations/ Expenditures
Priority List 5		:								
Freshwater Bayou Bank Stabilization	MERM	VERMI	SII	A 79-Jul-10	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.	ın Gas Company.					
	Status:	Contract wa	is awarded Jai	Contract was awarded January 14, 1998. Construction began February 1998.	onstruction began	r February 1998.				
Naomi Outfall Management	BARA	PLAQ	633	15-Apr-98	01-Mar-99	30-Sep-99	\$1,686,865	\$1,771,813	105.0	186,6012
•	Remarks:									

CSA at DNR for several months; execution slipped from December 1997 to April 1998 based on LA DNR's O&M program and monitoring program reviews. This should not affect the project construction schedule. This project will be combined with BBWW "Dupre Cut" East project for planning, design, and construction.

Status:

				• • • • • • • • • • • • • • • • • • • •	STIRGHOS	•••••	Sil	•••••• Saliwaits		Actual Obligations/
PROJECT .	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Baseline	Current	%	Expenditures
Racoon Island Breakwaters Demo	TERRE	TERRE		03-Sep-96 A	21-Apr-97A	31-Jul-97 A	\$1,497,538	\$2,063,398	137.8!	\$1,765,830
	Remarks:									
	Status:	Complete.								
Sweet Lake/Willow Lake	CALC	CAMER	247	23-Jun-97 A	86-unf-10	66-unf-10	\$4,800,000	\$4,762,700	99.2	\$130,535 \$23,672
	Remarks:	The 5th Pri authorized	iority List auth funding in the	The 5th Priority List authorized funding in the amount of \$2,300,000 for the FY 96 Phase 1 of this project. Priority List 6 authorized funding in the amount of \$2,500,000 for the FY 97 Phase 2 of the project. Total project cost is \$4,800,000.	he amount of \$2,5 000 for the FY 97	300,000 for the FY 7 Phase 2 of the pro	96 Phase 1 of this eject. Total projec	s project. Priority	/ List 6 100.	
	Status:	On schedule.	ن <u>و</u>							

105.1		
\$12,596,811		
\$11,983,322		
1,391		
1 5	í	
Total Priority List		4 Project(s)
		4

\$5,450,558 \$1,595,943

- 4 Project(s)
- 3 Cost Sharing Agreements Executed
- 2 Construction Started
- 1 Construction Completed
- 0 Project(s) Deferred/Deauthorized
- 0 Unfunded Project(s)

CI.LMN-PM-M	COV	COASTAL WITLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report - Lead Agency: DEPT, OF AGRICULTURE (NRC	TLANDS P Summary R	cport - Lead	Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)	OF AGRICUI	TURE (NRCS			Page 62
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	85,019,900	\$5,019,900	0 001	\$7,500
	Remarks:	This project will	t will be comb	incd with the Nac	be combined with the Naomi Outfall Management project for planning. design and construction.	ement project for	planning. design ar	rd construction.		
	Status:	CSA at DNR for program and mo combined with N	R for several n d monitoring p vith Naomi Ou	nonths; execution program review. Ifall Managemen	CSA at DNR for several months; execution slipped from December 1997 to April 1998 because of LA 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 Ap Tect the project co ng, design, and co	ril 1998 because o nstruction schedul instruction.	f LA DNR's O&N e. This project wi	- pe	
Cheniere au Tigre Sediment Tranning	ТЕСНЕ	VERMI	0	. 86-Inf-10	01-Apr-99	30-Oct-99	\$500,000	\$500,000	100 0	\$7,500
Device Demo	Remarks:									\$

Additional funds in the amount of \$346,073 will be requested at the April 1998 Task Force meeting; total project will be \$846,073.

Status:

PROJECT	BASIN	PARISH	ACRES	CSA	CSA CORST Start Const En	Const End	Baseline	Baseline Current %		Actual Obligations/ Expenditures
Oaks/Avery Canals	ТЕСНЕ	VERMI	091	86-á¤W-10	66-Inf-10	30-Dec-99	\$2,367,700	\$2,367,700	0.001	\$10,588
Incr I (B S. only)	Remarks:									š
	Status:	No anticipate should result	ited problems It in the proje	d problems to expedite implementation. The plannin in the project being completed about 6 months early.	nentation. The pl: 1 about 6 months c	anning, design, an arly	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.	be handled by DN	IR and	
Penchant Basin Plan	TERRE	TERRE	1,155	01-May-99	01-Oct-00	30-Oct-01	\$7,051,550	\$7,051,550	0.001	\$7,500
Stabilization	Remarks:	Priority Lis project cost	Priority List 6 authorized fu project cost of \$14,103,100.	I funding for \$7,05 00.	1,550 in FY 97; P	riority List 8 is scl	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.	051,550, for a tot	=	•
	Status:	CSA slipped	d from Februs	from February 1998 to May 1999. Data gathering on-going. Project on schedule.	999. Data gatherii	ng on-going. Proj	ect on schedule.			

\$33,088 \$0

\$14,939,150 \$14,939,150 100.0

1,532

Total Priority List 6

0 Cost Sharing Agreements Executed

4 Project(s)

0 Project(s) Deferred/Deauthorized

0 Unfunded Project(s)

0 Construction Started 0 Construction Completed

G-65

	Pro	Project Status Summary Report - Lead Agency: DEPT. OF AGRIC ULTURE (NRCS)	. (•
PROJECT	BASIN	PARISH	ACRES	CSA	CSA CONST Start Const En	Const End	Baseline	Baseline Current %	*	Actual Obligations/ Expenditures
Priority List 7										
Barataria Basin Landbridye Ph L	BARA	JEFF	862	86-Inf-\$1	15-Jan-00	15-Sep-00	\$10,342,700	\$10,342,700	0.001	8 8
	Remarks:									.
	Status:									
Barataria Basin I andheidaa Dh 2	BARA	JEFF	787				\$21,263,700	\$21,263,700	0.001	9 3
rainaniage, i ii z	Remarks:	This project	l was approved	l as an unfunded p	This project was approved as an unfunded project on Priority List 7.	List 7.				04

Unfunded.

	•		•							Actual
PROJECT	BASIN	PARISH	ACRES	CSA	CSA Const Start Const End	Const End	Baseline	Baseline Current %	*	Obligations/ Expenditures
South Grand Cheniere Freehwater Introduction	MERM	CAMER	33				\$5,130,500	\$5,130,500	100.0	9, 9
	Remarks:	This project	was approved	as an unfunded	This project was approved as an unfunded project on Priority List 7.	List 7.				
	Status:	Unfunded.								
Thin Mat Floatant March Enhancement	PEN	TERRE	0	15-Sep-98	15-Apr-99	i 5-May-99	\$460,222	\$460,222	0.001	9 . 3
Demo	Remarks:									
	Status:									
Upper Oak River Freehuster	BRET	PLAQ.	337				\$12,471,800	\$12,471,800	100.0	93 5
Introduction Siphon	Remarks:	This project	was approved	as an unfunded	This project was approved as an unfunded project on Priority 1 ist 7	List 7.				Ā

Status: Unfunded.

				• • • • • • • • • • • • • • • • • • • •	SHIRCHIOS	••••••	5:1 ••••••	SHLVWILSE	:	Actual Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Baseline	Current	*	Expenditures
Total	Total Priority List 7	7	2.019				\$49,668.922	\$49,668,922	0 001	93
										9
S Project(s)										
0 Cost Sharing Agreements Executed	Agreements	Executed								
0 Construction Started	Started									
0 Construction Completed	Completed									
0 Project(s) Deferred/Deauthorized	ferred/Deauth	orized								
3 Unfunded Project(s)	oject(s)									
Total DEPT. OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE	TURE, NATU RVATION SI	RAL ERVICE	20,672				\$129,927,406	\$134,146,506	103.2	\$22,201,060 \$8,276,830
38 Project(s)										
26 Cost Sharing Agreements Executed	Agreements	Executed								
13 Construction Started	Started									
8 Construction Completed	Completed									
2 Project(s) Deferred/Deauthorized	ferred/Deauth	horized								
3 Unfunded Project(s)	oject(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	COASTAL WE	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT	RESTORATION ACT			31-Mar-9
		Project Status Summary Report - Total All Priority Lists	Priority Lists			
•						Actual
			•••••	****** ESTIMATES ******	:	Obligations
PROJECT		ACRES	Bascline	Current	%	Expenditures
SUMMARY	Total All Projects	99,600	959 715 0113	138 137 5013 9 401 959 141 943 953 775 0113	104 9	198 192 2013
	•				Š	\$37,436,216
94	94 Project(s)					
59	59 Cost Sharing Agreements Executed		Total Available Funds	e Funds		
34	34 Construction Started		Federal Funds	\$231,160,268		
21	21 Construction Completed		Non/Federal Funds	\$50,835,216		
10	10 Project(s) Deferred/Deauthorized		Total Funds	\$281,995,484		
•	8 Hnfunded Project(s)					

				Prok	ect Status Su	Project Status Summary Report by Basin	by Basin			
	- &	No. of Projects	Acres	CSA	Under Const.	Completed	Projects Deauth.	Baseline Estimate	Current Estimate	Expenditures To Date
Basin: All Basins in State	in Stat	ຍ								
Priority List: Cons Plan	ins Plan	_	0	-	-	_	0	\$238,871	\$238,871	\$123,202
Basin Total	_	-	0	-	-	-	0	\$238.871	\$238,871	\$123,202
Basin: Atchafalaya	ŭ									
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	89,960,769	\$10,102,902	\$2,754,456
Priority List:	7	_	910	_	0	9	0	\$3,398,867	\$4,046,673	\$277,515
Priority List:	3	8	1,263	3	-	0	-	\$4,160,823	\$8,490,200	\$2,396,353
Priority List:	4	2	696	C 1	0	0	0	\$4,611,094	\$4,630,979	\$2,597
Priority List:	~	2	1,752	_	0	0	0	\$12,186,865	\$12,271,813	\$18,838
Priority List:	9	_	217	0	э	9	0	\$5,019,900	85,019,900	\$0
Priority List:	7	3	1,776	0	0	0	0	\$32,535,300	\$32,535,300	0\$
Basin Total	_	15	7 107	91	4	_	-	817178172	F3F F00 FF3	057 017 53

Projects Statius Summary Report by Hassin Projects	CLEMN-PM-M		20	NSTAL W	ETLANDS P	L'ANNING.	PROTECTION	A AND REST	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT		31-Mar-98
No. of Projects Acres CSA Under Projects Hascline Current Expendidud 1 802 1 0 0 0 \$7.552.199 \$2.5034.353 \$149.5 1 0 1 0 0 1 \$7.56.134 \$23.075 \$23.0 1 0 0 0 1 \$7.56.134 \$23.075 \$23.0 1 0 0 0 0 1 \$2.468.908 \$22.134 \$23.0 1 0 0 0 0 1 \$2.468.908 \$22.134 \$23.0 4 1,139 2 0 0 0 \$1.2471.800 \$1.2471.800 \$2.244.8 3 0 0 0 \$2.266.904 \$1.2471.800 \$1.2471.800 \$1.2471.800 \$1.2471.800 \$1.2471.800 \$1.2471.800 \$1.2471.800 \$1.2471.800 \$1.2471.800 \$1.2471.800 \$1.2471.800 \$1.2471.800 \$1.2471.800 \$1.2471.800 \$1.2471.800 \$1.2471.					Proje	et Status Su	иптагу Кероп	by Basin			Lage 2
1 802 1 0 0 0 52,522,199 52,634,353 5149,5 1 0 0 0 1 5756,134 523,075 52			No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth	Bascline Estimate	Current Estimate	Expenditures To Date
2 1 802 1 0 0 52,522,199 \$2,634,353 \$14,65 3 1 0 1 \$756,134 \$23,075 \$23,075 \$23,075 4 1 0 0 0 1 \$756,134 \$23,075 \$23,07 4 1 33 0 0 0 1 \$2,468,908 \$52,184 \$23,18 31 4 1,139 2 0 0 0 \$12,471,800 \$12,471,800 \$12,471,800 \$12,471,800 \$12,471,800 \$12,471,800 \$12,471,800 \$12,471,800 \$12,471,800 \$12,471,813 \$12,471,800 \$12,471,800 \$12,471,813	Basin: Breton So	, nu									`
3 1 0 1 0 1 \$736,134 \$23,075 \$23,075 4 1 0 0 0 1 \$2468,908 \$52,154 \$52,154 3 1 0 0 0 0 1 \$2468,908 \$52,154 \$52,154 3 1 3 0 0 2 \$12,471,800 \$12,471,800 \$12,471,800 3 4 1,139 2 0 0 2 \$12,471,800 \$12	Priority List:	7	-	802	-	0	0	0	\$2,522,199	\$2,634,353	\$149,573
4 1 0 0 0 1 \$2,468,908 \$52,154 \$52,168 \$52,143 \$52,148 \$52,143 \$52,14	Priority List:	3	_	•	-	0	9	-	\$756,134	\$23,075	\$23,075
1 1 337 0 0 0 512,471,800 \$12,471,800 \$12,471,800 31 4 1,139 2 0 0 2 \$18,219,041 \$15,181,382 \$224,8 1 3 6,127 3 0 5 \$18,219,041 \$15,181,382 \$224,33 2 4 3,010 4 2 2 0 \$2,609,804 \$1,743,6 2 4 3,010 4 2 2 0 \$8,568,462 \$10,202,665 \$4,307,8 3 2 3,555 2 1 0 \$8,301,380 \$8,321,454 \$29,331 4 3 1,203 2 0 \$8,301,380 \$8,321,454 \$29,331 5 1 247 1 0 0 \$6,316,800 \$6,316,800 \$6,316,800 \$6,316,800 4 1 2,394 0 0 0 \$6,316,800 \$6,316,800 \$6,316,800 8	Priority List:	•	_	0	0	0	0	_	\$2,468,908	\$52,154	\$52,154
al 4 1,139 2 0 0 2 \$18,219,041 \$15,181,382 \$224,88 1 3 6,127 3 3 0 \$5,770,187 \$2,869,804 \$1,743,6 2 4 3,010 4 2 2 0 \$8,568,462 \$10,202,665 \$4,367,8 3 2 4 3,010 4 2 2 0 \$8,586,462 \$10,202,665 \$4,367,8 3 2 4 3,610 4 2 2 0 \$8,368,462 \$10,202,665 \$4,367,8 4 3 1,203 2 1 0 \$2,893,802 \$2,893,17,454 \$29,33 5 1 2 0 0 0 \$2,893,802 \$2,903,784 \$29,23 6 1 3,594 0 0 0 \$4,800,000 \$4,762,700 \$23,16,800 8 1 2 0 0 0 \$2,939,600 \$2,939,600 <td>Priority List:</td> <td>1</td> <td>-</td> <td>337</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>\$12,471,800</td> <td>\$12,471,800</td> <td>80</td>	Priority List:	1	-	337	0	0	0	0	\$12,471,800	\$12,471,800	80
1 3 3 3 3 3 4.367.8 51.743.6 <td>Basin Tol</td> <td>Ţ</td> <td>4</td> <td>1,139</td> <td>2</td> <td>9</td> <td>0</td> <td>2</td> <td>\$18,219,041</td> <td>\$15,181,382</td> <td>\$224,802</td>	Basin Tol	Ţ	4	1,139	2	9	0	2	\$18,219,041	\$15,181,382	\$224,802
1 3 3 3 9 \$5,770,187 \$2,869,804 \$1,743,6 2 4 3,010 4 2 2 0 \$8,568,462 \$10,202,665 \$4,367,8 3 2 3,555 2 1 0 0 \$8,301,380 \$8,321,454 \$59,391,802 4 3 1,203 2 0 0 0 \$2,893,802 \$2,903,784 \$89,234 5 1 247 1 0 0 0 \$4,800,000 \$4,762,700 \$23,6 6 1 3,594 0 0 0 \$6,316,800 \$6,316,800 \$6,316,800 \$8,	Basin: Calcasieu	_									
2 4 3,010 4 2 2 0 58,568,462 \$10,202,665 \$4,367,8 3 2 3,555 2 1 0 0 \$8,301,380 \$8,321,454 \$59,3 4 3 1,203 2 0 0 0 \$2,893,802 \$2,903,784 \$89,2 5 1 247 1 0 0 0 \$4,800,000 \$4,800,000 \$4,762,700 \$23,6 6 1 3,594 0 0 0 \$6,316,800 \$5,316,800 \$23,916,600 \$23,916,600 \$23,916,600 \$23,916,600 \$23,916,600 \$23,916,600 \$23,916,600 \$23,916,600 \$23,916,600 \$23,916,600 \$23,916,8	Priority List:	-	3	6,127	3	3	3	9	\$5,770,187	\$2,869,804	\$1,743,657
3 2 3,555 2 1 0 0 58,301,380 58,321,454 4 3 1,203 2 0 0 0 52,893,802 \$2,903,784 5 1 247 1 0 0 0 \$4,800,000 \$4,762,700 6 1 3,594 0 0 0 \$6,316,800 \$6,316,806 7 1 238 0 0 0 \$6,316,800 \$9,391,600 Fotal 15 12 6 5 6 \$46,042,231 \$44,768,813 \$6.	Priority List:	2	4	3,010	4	2	C 1	0	\$8,568,462	\$10,202,665	\$4,367,873
4 3 1,203 2 0 0 0 \$2,893,802 \$2,903,784 \$89,2 5 1 247 1 0 0 0 \$4,800,000 \$4,762,700 \$23,6 6 1 3,594 0 0 0 \$6,316,800 \$6,316,806 \$1,600 7 1 238 0 0 0 \$9,391,600 \$9,391,600 \$6,234,600 Fotal 15 12 6 5 0 \$46,042,231 \$44,768,813 \$6,254,60	Priority List:	£	7	3,555	7	-	0	0	\$8,301,380	\$8,321,454	\$29,334
5 1 247 1 0 0 0 54,800,000 \$4,762,700 \$23,6 6 1 3,594 0 0 0 6 \$6,316,800 \$6,316,806 \$1 7 1 238 0 0 0 0 \$9,391,600 \$9,391,600 Total 15 17,974 12 6 5 0 \$44,768,813 \$6,254,6	Priority List:	4	e	1,203	7	0	0	0	\$2,893,802	\$2,903,784	\$89,294
6 1 3,594 0 0 0 6 56,316,806 \$6,316,806 \$1 7 1 238 0 0 0 \$9,391,600 \$9,391,600 Fotal 15 17,974 12 6 \$ 0 \$46,042,231 \$44,768,813 \$6,254,6	Priority List:	~	-	247	-	0	0	0	84.800,000	\$4,762,700	\$23,672
7 1 238 0 0 0 0 0 \$9,391,600 \$9,391,600 Total 15 17,974 12 6 5 0 \$46,042,231 \$44,768,813 \$6,254,6	Priority List:	•	_	3,594	0	0	0	0	\$6,316,800	\$6,316,806	\$864
15 17,974 12 6 5 5 0 \$46,042,231 \$44,768,813	Priority List:	7	-			0	0	0	\$9,391,600	009'166'6\$	0\$
	Basin Tol	lal	. 21	17,974	71	9	S .	0	\$46,042,231	\$44,768,813	\$6,254,694

				Proje	et Status Sur	Project Status Summary Report by Basin	by Basin			rage v
	_	No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth	Bascline Estimate	Current Estimate	Expenditures To Date
Basin: Miss. River Delta	er Delt									
Priority List:	-	-	9,831	0	0	0	0	\$8,517,066	\$16,683,854	\$457,938
Priority List:	.	7	936	-	-	_	-	\$3,666,187	\$995,832	\$568,653
Priority List:	4	_	0	_	0	0	0	\$300,000	\$375,000	\$21,559
Priority List:	9	7	2,386	0	0	0	0	\$4,336,950	\$4,336,950	\$23,354
Basin Total	le l	۰	13,153	2	-	_	-	\$16,820,203	\$22,391,636	\$1,071,504
		,	•	(•	,	•			
Priority List:	_	7	559	2	2	2	-	\$1,368,671	\$1,569,522	\$979,431
Priority List:	7	-	1,604	_	-	0	0	\$2,770,093	\$2,780,100	\$1,216,135
Priority List:	3	_	91	_	-	-	0	\$126,062	\$146,944	\$37,766
Priority List:	~	_	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	\$0
Basin Total	74	7	3,165	~	\$	E	-	\$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		_	0	0	0	0	0	\$460,222	\$460.222	0\$

				Proje	ect Status Su	Project Status Summary Report by Basin	by Basin			+ 13p -
	Z &	No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Basclinc Estimate	Current Estimate	Expenditures To Date
Basin: Pontchartrain	_							:		
Priority List:	_	2	1,753	6	CI	Ci	0	600'611'9\$	\$5.257,352	\$4,340,887
Priority List: 2	2	. 2	2,321	C1	-	-	0	\$4,500,424	\$4,575,596	\$1,118,784
Priority List: 3		3	1,002		-	0	0	\$2,683,636	\$2,806,704	\$543,454
Priority List: 4	₹	_	0	0	0	Э	_	\$5,018,968	\$1,380	531,973
Priority List: 5	~	_	661	0	0	0	0	\$2,890,821	\$2,555,029	\$215,714
Priority List: 7	7	2	357	0	0	0	0	\$21,643,600	\$21,643,600	05
Basin Total		=	5,632	7	4	3	-	\$42,856,458	\$36,839,661	\$6,250,812
Basin: Teche / Vermilion	nilion									
Priority List:	_	_	54	-	-		0	\$1,526,000	\$2,056,249	\$1,680,784
Priority List: 2	2	_	378	_	-	-	0	\$1,008,634	\$965,473	\$672,321
Priority List: 3	3		2,223	-	_	0	0	\$5,173,062	\$5,639,302	\$303,418
Priority List: 5	~	_	441	_	0	0		\$940,065	\$940,100	\$5,695
Priority List: 6	٥	4	2,567	0	0	0	0	\$10,130,000	\$10,130,000	\$46,872
Bacin Total		•	1773	*	,	c	•	176 666 013		

				Proje	et Status Su	Project Status Summary Report by Basin	by Basin			Page 5
		No. of Projects	Acres	CSA Executed	Under	Completed	Projects Deauth	Bascline Estimate	Current	Expenditures To Date
Basin: Тепеbonne	۲									
Priority List:	-	~	232	4	·	Li	~	\$8.809.393	\$9,450,361	\$621,189
Priority List:	7	E	954	•	~	-	0	\$12,831,588	\$19,948,505	\$1,941,675
Priority List:	6	4	3.058	4	-	0	0	\$15,758,355	\$20.063,160	\$4,575,932
Priority List:	4	7	215	-	0	•	0	\$6,119,470	\$7,581,633	\$73,546
Priority List:	~	3	2.037	7	-	-	0	\$23,620,006	\$26,985,866	\$2,127,239
Priority List:	9	\$	1,774	0	0	0	2	819,595,600	\$13,056,889	\$49,812
Priority List:	7	2	105	0	0	0	0	\$7,590.800	\$7,590,800	25
Basin Total	.	24	8.375	4	•	4	4	\$94.325.212	\$104 677 214	\$01 081 03

			Proj	ect Status St	Project Status Summary Report by Basin	by Basin	Project Status Summary Report by Basin		Page 6
	No. of		CSA	Under		Projects	Bascline	Current	Expenditures
	Projects	Acres	Executed	Const.	Completed	Deauth	Estimate	Estimate	To Date
Total All Basins	ま	009'99	65	7.	12	9	\$130,217,629	\$346,341,952	\$37,436,216

No of Fourier Foliacists CSA Under Courst Under Counted Completed Departsh Estimate Current Funish: ASCENSION Parish: ASCENSION Priority List: S 1 428 1 0 1 428 1 0 0 0 516,987,000 \$16,987,000 Parish: CALCASIEU Friority List: A 1 1,203 1 0 1 1 428 1 1,203 1 0 0 0 \$16,987,000 \$16,987,000 Parish: CALCASIEU Friority List: A 1 1,203 1 0 1 1 1 0 \$1,41,310 \$16,987,000 Parish: CALCASIEU Friority List: A 1 1,203 1 0 1 1 1 0 \$1,41,310 \$14,6212 Priority List: A 1 1,203 1 1 1 1 0 \$1,41,310 \$13,416,212 Parish: CAMERON 2 2,269 2 1 1 0 \$1,41,310 \$1,416,212 Priority List: A 2 3 4 4 4 0 \$5,964,838 \$5,639,878 Priority	CI.I.MN-PM-M	93	ASTAL W	VETLANDS I Proje	PLANNING, oct Status Su	DS PLANNING, PROTECTION AND RI Project Status Summary Report by Parish	V AND REST by Parish	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report by Parish		31-Mar-98 Page 1
1 428 1 0 0 516,987,000 51 1 428 1 0 0 516,987,000 51 1 1,066 1 1 0 51,741,310 5 1 1,203 1 0 0 52,223,518 5 2 2,269 2 1 1 0 51,741,310 5 3 1,944 3 1 1 0 51,964,828 3 2 2,269 2 1 1 0 53,964,828 3 3 1,944 3 1 1 0 56,947,825 2 3,552 2 1 0 56,947,825 2 0 1 0 56,947,825 2 1 0 0 56,947,825 2 1 0 0 56,947,825 3 1 0 0 56,947,825 4		No. of Projects	Acres	CSA	Under	Completed	Projects Deauth.	Baseline Estimate	Current Estimate	Expenditures To Date
1 428 1 0 0 0 \$16,987,000 \$1 1 428 1 0 0 0 \$16,987,000 \$1 1 1,066 1 1 0 \$1,741,310 \$2,223,518 \$2 2 2,269 2 1 0 0 \$3,964,828 \$3 3 1,944 3 1 1 0 \$6,947,855 2 3,552 2 1 0 \$6,947,855 2 3,552 2 1 0 \$6,947,855 2 3,552 2 1 0 \$6,947,855 2 3,552 2 1 0 \$6,947,855 2 1 0 0 \$6,947,855 2 1 0 \$6,947,855 2 1 0 \$6,947,855 3 4 0 0 \$6,947,855 4 0 0 0 <	Parish: ASCENSION	_						,		
1 428 1 0 0 0 \$16,987,000 \$1 1 1,066 1 1 0 \$1,741,310 \$2,223,318 \$2 2 2,269 2 1 1 0 \$1,964,828 \$3 4 6,374 4 4 4 4 6,374,828 \$3 2 3,555 2 1 1 0 \$6,827,152 2 3,555 2 1 0 \$6,827,152 2 0 1 0 \$6,316,800 \$6,316,800 1 247 1 0 \$6,316,800 \$6,316,800 1 3,594 0 0 0 \$6,316,800 \$6 2 271 0 0 0 \$6,316,800 \$6 2 271 0 0 0 \$6,316,800 \$6 2 271 0 0 0 \$6,316,800 \$6 2 </td <td></td> <td>-</td> <td>428</td> <td>-</td> <td>0</td> <td>0</td> <td>0</td> <td>\$16,987,000</td> <td>\$16,987,000</td> <td>\$516,506</td>		-	428	-	0	0	0	\$16,987,000	\$16,987,000	\$516,506
1 1,066 1 1 0 \$1,741,310 2 2,269 2 1 0 0 \$2,223,518 4 6,374 4 4 4 0 \$6,947,855 3 1,944 3 1 1 0 \$6,947,855 2 3,585 2 1 0 0 \$6,947,855 2 3,585 2 1 0 0 \$6,947,855 2 3,585 2 1 0 0 \$6,947,855 1 247 1 0 0 \$6,702,84 1 3,594 0 0 0 \$6,316,800 2 271 0 0 0 \$6,316,800 2 271 0 0 0 \$14,522,100 \$8	Parish Total	-	428	-	0	0	0	\$16,987,000	\$16,987,000	\$516,506
1 1,066 1 1 0 \$1,741,310 2 2,269 2 1 0 0 \$2,223,518 4 6,374 4 4 4 0 \$6,947,828 3 1,944 3 1 1 0 \$6,827,152 2 3,535 2 1 0 0 \$6,827,152 2 0 1 0 0 \$6,374 1 247 1 0 \$6,374 2 1 0 0 \$6,70,284 1 247 1 0 0 \$6,30,000 1 3,594 0 0 0 \$6,316,800 2 271 0 0 0 \$6,316,800 2 271 0 0 0 \$6,316,800 3 0 0 0 \$6,316,800 \$6,316,800	Parish: CALCASIEU	_								
1 1,203 1 0 0 0 \$2,223,518 2 2,269 2 1 1 0 \$3,964,828 3 4 6,374 4 4 4 4 0 \$6,947,855 5 3 1,944 3 1 1 0 \$6,827,152 6 3 1,944 3 1 1 0 \$6,301,380 7 2 3,555 2 1 0 \$6,301,380 8 1 2 0 0 0 \$6,316,800 9 1 2 4,800,000 0 \$6,316,800 1 3,594 0 0 0 \$6,316,800 1 3,594 0 0 0 \$6,316,800 1 2 271 0 0 0 \$14,522,100 \$8	Priority List: 2	-	1.066	-	***	-	0	\$1,741,310	\$3,416,212	\$2,765,651
2 2,269 2 1 1 0 \$3,964,828 1 4 6,374 4 4 4 0 \$6,947,855 2 3 1,944 3 1 1 0 \$6,947,855 1 2 3,555 2 1 0 \$6,827,152 2 3,555 2 1 0 \$6,304,855 3 1 1 0 0 \$6,304,855 4 6 1 0 0 \$6,304,855 5 3,555 2 1 0 \$6,304,855 6 1 0 0 0 \$6,70,284 7 247 1 0 0 \$6,316,800 8 271 0 0 0 \$6,316,800 8 271 0 0 0 \$6,316,800		-	1,203	-	0	0	0	\$2,223,518	\$2,223,500	\$79,995
4 6,374 4 4 4 6,947,855 3 1,944 3 1 1 0 \$6,947,855 4 6,374 4 4 4 6,86,947,855 5 3,555 2 1 0 88,301,380 6 1 0 0 86,301,380 7 2 0 1 0 \$6,70,284 8 1 2 0 0 \$6,316,800 9 1 3,594 0 0 0 \$6,316,800 1 2 271 0 0 0 \$14,522,100 \$1	Parish Total	2	2,269	2	-	-	0	\$3,964,828	\$5,639,712	\$2,845,646
1 4 6,374 4 4 4 6,947,855 2 3 1,944 3 1 0 \$6,827,152 3 2 3,555 2 1 0 0 \$8,301,380 4 2 0 1 0 0 \$6,702,84 5 1 247 1 0 0 \$6,300,000 6 1 3,594 0 0 0 \$6,316,800 7 2 271 0 0 0 \$14,522,100 \$8	Parish: CAMERON									
2 3 1,944 3 1 1 0 \$6,827,152 3 2 3,555 2 1 0 0 \$8,301,380 4 2 0 1 0 0 0 \$670,284 5 1 247 1 0 0 0 \$4,800,000 6 1 3,594 0 0 0 \$6,316,800 7 2 271 0 0 0 \$14,522,100 \$5	Priority List:	4	6,374	4	4	4	0	\$6,947,855	\$4,359,878	\$2,643,640
3 2 3,55£ 2 1 0 0 \$8,301,380 4 2 0 1 0 0 \$670,284 5 1 247 1 0 0 0 \$4,800,000 6 1 3,594 0 0 0 \$6,316,800 \$5 7 2 271 0 0 0 \$14,522,100 \$5		Э	1,944	3	-	_	0	\$6,827,152	\$6,786,453	\$1,602,222
4 2 0 1 0 5670.284 5 1 247 1 0 0 0 84.800,000 6 1 3,594 0 0 0 0 86,316,800 7 2 271 0 0 0 814,522,100 \$		2	3,555	2	-	0	0	\$8,301,380	\$8,321,454	\$29,334
5 1 247 1 0 0 0 84,800,000 6 1 3,594 0 0 0 0 86,316,800 7 2 271 0 0 0 0 814,522,100 \$	·	2	0	-	0	0	0	\$670,284	\$680.284	89,300
6 1 3,594 0 0 0 0 56,316,800 7 2 271 0 0 0 0 814,522,100 \$		-	247	-	0	0	0	\$4,800,000	\$4,762,700	\$23,672
7 2 271 0 0 0 0 0 814,522,100		-	3,594	0	0	0	0	\$6,316,800	\$6,316,806	\$864
		2	172	0	O	0	0	\$14,522,100	\$14,522,100	25
Parish Total 15 15,985 11 6 5 0 \$48,385,571 \$45,749,675	Parish Total	15	15,985	=	9	\$	0	\$48,385,571	\$45,749,675	\$4,309,031

Projects Parish: Coastal Parishes Priority List: Cons Plan 1 Priority List: 6 1 Parish Total 2	Acres							
		CSA	Under Const.	Completed	Projects Deauth.	Bascline Estimate	Current Estimate	Expenditures To Date
Cons Plan 6								
6 Total	0	_	-	-	0	\$238.871	\$238,871	\$123,202
		0	0	0	0	\$1,040,000	\$1,040,000	\$0
	0	-	_	-	0	\$1,278,871	\$1,278,871	\$123,202
Parish: IBERIA				·				
Priority List: 6	408	0	0	0	0	\$4,094,900	\$4,094,900	\$45,999
Parish Total I	408	0	0	0	0	\$4,094,900	\$4,094,900	\$45,999
Parish: JEFFERSON								
Priority List: 1 2	445	7	2	-	0	\$1,819,257	\$1,755,796	\$1,116,967
Priority List: 2	910	_	0	0	0	\$3,398,867	\$4,046,673	\$277,515
Priority List: 3 1	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 1	217	0	0	0	0	\$5,019,900	\$5,019,900	80
Priority List: 7 3	1,776	0	0	0	0	\$32,535,300	\$32,535,300	%
Parish Total 9	3,180	5	2	_	_	\$46,800,789	\$47,414,698	\$2,688,664

CELMN-PM-M		CO	ASTAL W	ETLANDS P	L'ANNING,	PROTECTION	I AND REST	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT		31-Mar-98
				Proje	et Status Su	Project Status Summary Report by Parish	by Parish			Lage J
		No. of Projects	Acres	CSA	Under	Completed	Projects Deauth	Baseline Estimate	Current Estimate	Expenditures To Date
Parish: LAFOURCHE	RCHE									
Priority List:	-	2	175	-	-	0	-	\$8,393,548	\$8,354,105	\$1,644,488
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	9	0	\$8,171.080	\$0,606,705	\$73,546
Priority List:	S	_	1,609	0	0	0	0	\$5,135,468	\$7,935,468	\$53,300
Parish Total	otal	7	4,218	\$	2	0	. .	\$28,601,169	\$34,832,654	\$3,962,742
Parish: ORLEANS	4S									
Priority List:	-	-	1,550	-	-	-	0	\$1,657,708	\$1,598,612	\$983,433
Priority List:	7	-	1,281	-	_	-	0	\$1,452,035	\$1,700,121	\$1,001,877
Priority List:	~	_	661	0	0	0	0	\$2,890,821	\$2,555,029	\$215,714
Priority List:	7	-	226	0	0	0	0	\$6,510,200	\$6,510,200	0\$
Parish Total	otal	4	3,256	2	2	2	0	\$12,510,764	\$12,363,962	\$2,201,024

				Proje	et Status Su	Project Status Summary Report by Parish	by Parish	Project Status Summary Report by Parish		51-Mar-98 Page 4
	_	No. of Projects	Acres	CSA	Under Const.	Completed	Projects Deauth	Baseline Estimate	Current Estimate	Expenditures To Date
Parish: PLAQUEMINES	MINES							٠		
Priority List:	_	-	9,831	0	0	0	0	\$8,517,066	\$16,683,854	\$457,938
Priority List:	7	_	802	-	0	0	0	\$2,522,199	\$2,634,353	\$149,573
Priority List:	3	4	2,023	3	-	-	Ć1	\$5,303,469	\$5,098,462	\$599,620
Priority List:	4	7	0	-	0	0	-	\$2,768,908	\$427,154	617,678
Priority List:	\$	7	1,752	_	0	0	0	\$12,186,865	\$12,271,813	\$18,838
Priority List:	9	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	25
Parish Total	_	13,	17,131	9	-	_	3	\$48,107,257	\$53,924,387	\$1,323,037
Parish: ST. BERNARD	ARD									
Priority List:		2	1,002	2	0	0	0	\$2,333,636	\$2,326,204	\$256.831
Priority List:	7	-	131	0	0	0	9	\$15,133,400	\$15,133,400	0\$
Parish Total	=	æ	1,133	2	0	0	0	\$17,467,036	\$17,459,604	118 9573

M-IMI-IMI	3	ASIAL W	VETLANDS I Proje	LANNING, ect Status Su	DS PLANNING, PROTECTION AND RI Project Status Summary Report by Parish	A AND RESTO by Parish	COASTAL WELLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report by Parish		31-Mar-98 Page 5
	No. of Projects	Acres	CSA	Under Const.	Completed	Projects Deauth.	Baseline Estimate	Current Estimate	Expenditures To Date
Parish: ST. CHARLES	S								
Priority List:	-	203		-	-	0	\$4,461,301	\$3,658,740	\$3,357,455
Priority List: 3	-	176	-	_	0	0	\$1,444,628	\$2,565.894	\$1,095,802
Parish Total	2	379	2	2	-	0	\$5,905,929	\$6,224,634	\$4,453,257
Parish: ST. JOHN THE BAPTIST	E BAPTIS	Ļ							
Priority List: 3	-	0	-	-	0	0	\$350,000	\$480,500	\$286.623
Parish Total	-	0	-	-	0 .	0	\$350,000	\$480,500	\$286,623
Parish: ST. MARTIN									
Priority List: 6	2	1,999	0	0	0	-	\$3,317,400	\$3,167,400	\$873
Parish Total	2	1,999	0	0	0	_	\$3,317,400	\$3,167,400	\$873
Parish: ST. MARY									
Priority List: 2	2	4,392	2	2	-	0	\$5,043,867	\$9,143,396	\$3,715,849
Priority List: 3	-	2,223	_	-	0	0	\$5,173,062	\$5,639,302	\$303,418
Priority List: 6	-	0	0	0	0	-	\$6,438,400	\$49,689	\$49,689
Parish Total	4	6,615	3	3	_	-	\$16,655,329	\$14,832,387	\$4,068,956

CELMN-PM-M		/0 2	NSTAL W	ETLANDS P	LANNING.	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT	AND REST	DRATION ACF		31-Mar-98
				Proje	ct Status Su	Project Status Summary Report by Parish	by Parish			0 วสิกม
		No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Baseline Estimate	Current Estimate	Expenditures To Date
Parish: ST. TAMMANY	MAN	>						٠		
Priority List:	2	_	1,040		0	0	0	\$3,048,389	\$2,875,475	\$116,907
Priority List:	4	_	•	•	0	0	_	\$5,018,968	\$1,380	\$31,973
Parish Total	<u></u>	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	2	_	0	\$7,977,486	\$13,580,880	\$1,215,478
Priority List:	æ	m.	2,045	£	-	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:	S			-	-	-	0	\$1,497,538	\$2,063,398	\$1,557,433
Priority List:	9	7	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	0\$
Parish Total	iai i	91	4,641	01	7	4	_	\$52,129,053	\$62,993,898	\$6,499,020

				Proje	ct Status Su	Project Status Summary Report by Parish	by Parish			Page 7
		No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Bascline	Current Estimate	Expenditures To Date
Parish: VERMILION	NOI									
Priority List:	-	2	366	CI	2	C1	-	\$1,717,003	\$2,135,697	\$1,760,232
Priority List:	7	7	1.982	7	Ci	-	0	\$3,778,727	\$3,745.573	\$1,888,456
Priority List:	3	-	9	-	-	-	0	\$126.062	\$146,944	\$37,766
Priority List:	~	7	952	2	-	0	0	\$4,938,984	\$4,939,000	\$19.472
Priority List:	9	7	091	0	0	0	0	\$2,867,700	\$2,867,700	20
Priority List:	7	-	442	0	0	0	0	\$2,185,900	\$2,185,900	05
Parish Total	tai	01	3,918	7	9	4	_	\$15,614,376	\$16,020,814	\$3,705,926

CII MN-PM-M	8	ASTAL W	VETLANDS P	LANNING	PROTECTION	AND REST	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT		31-Mar-98
			Proje	ct Status Sur	Project Status Summary Report by Parish	by Parish			Page 9
	Jo ok		CSA	Under		Projects	Bascline	Current	Expenditures
	Projects	Acres	Executed	Const.	Completed	Deauth.	Estimate	Estimate	To Date
Total All Parishes	8	009'99	65	×	21	01	\$330,237,629	\$346,341,952	\$37,436,216

CEMVN-PM-M	5		COASTAL WETL	IL WETI		ANDS PLANNING, PROTECTION AND RESTORATION ACT Project Summary Report by Priority List	CTION AND R by Priority List	ESTORATION	ACT		31-Mar-98
PAL	No. of Projects	Acres	CSA Executed	Under Const.	Const. Completed	Federal Const. Funds Available	Non/Fed Const. Funds Available	Bascline Estimate	Current	Obligations To Date	Expenditures To Date
-	7	18.864	13	3	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	•	\$28,173,110	\$10,161,033	\$40,644,134	\$54,296,761	\$32,434,196	\$13,459,726
E.	4	12,053	4	~	2	\$29,939,100	\$10,156,410	\$35,176,668	\$44,512,928	\$21,376,422	\$7,056,334
4	*	2,387	9	•	0	\$29,957,533	\$5,000,000	\$13.924,366	\$15,491,396	\$8,976,766	8186,996
\$	6	5,187	•	-	-	\$33,371,625	\$5,000,000	\$48,436,676	\$51,514,408	\$10,803,348	\$2,404,935
9	=	10,538	0	0	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	0\$	\$13,917,722	\$13,917,722	80	80
Active Projects	57 ;	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	8	20
Subtotal	83	66,288	22	2	61	\$231,160,268	\$50,835,216	\$308,335,733	\$343,840,042	\$103,537,352	\$35,571,474
Deauthorized Projects	0	312	4	• /	_			\$21,663,025	\$2,263,039	\$2,045,358	\$1,741,539
Total Projects	93	009'99	88	13	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	64	96,600	65	13	21	\$231,160,268	68 \$50,835,216 \$281,995,484	\$330,237,629	\$346,341,952	\$105,761,863	\$37,436,216

CEMVN-PM-M

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

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 Conscrvation 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.
- \$42,500,000 for Priority List 7 Federal funds available is an estimate; actual funding has not been received.