

EDWIN W. EDWARDS GOVERNOR

DEPARTMENT OF NATURAL RESOURCES

WILLIAM C. HULS SECRETARY

August 8, 1984

Colonel Robert C. Lee
District Engineer
New Orleans District, Corps of
Engineers
P. O. Box 60267
New Orleans, LA 70160

RE: C840314

Freshwater Diversion to Barataria and Breton Sound Basins Feasibility Study

Dear Colonel Lee:

Because of the importance of wetlands, and the vast fisheries and biological resources which they support, we have reviewed this project in great anticipation of the benefits which the State of Louisiana and the nation will derive. Land loss, particularly in these basins, has been documented to be occurring at unprecedented rates, with estimates as high as 102 km²/yr. or 0.8% annually (Gagliano et al. 1981).

The reasons for this disappearance of wetlands are complex, with subsidence, lack of sediment input, salt water intrusion and canal dredging being the main contributors. Therefore, the implementation of freshwater diversion into Barataria and Breton estuaries will serve to increase productivity and slow land loss by the introduction of the sediment rich, freshwater from the Mississippi River.

A review of the applicable coastal use guidelines for freshwater diversion i.e. 7.1, 7.2, 7.4, 7.5 and 7.7 indicates that at this time the tentatively selected plan is consistent with the Louisiana Coastal Resources Program to the maximum extent practicable, in accordance with the Coastal Zone Management Act of 1972 (as amended), and the NOAA consistency regulations 15 CFR 930.30. However, the Coastal Management Division would appreciate the opportunity to comment as required by 15 CFR 930.37(c) on any future changes or supplemental reports which may result as the project is further developed, so that a consistency determination can be made as each major decision is made.

Colonel Robert C. Lee August 8, 1984 Page Two

Again, we urge the Corps to move ahead with the tentatively selected plan, and we look forward to working with you in the future on this important, and worthwhile project.

Sincerely,

William C. Huls

y: //

WCH: CGG/ct

cc: Peter Tweedt

Ann Berger-Blundon

SUMMARY

SEPTEMBER 11, 1989 MEETING OF BARATARIA BASIN POLICY TEAM

HARVEY, LA.

On Monday, September 11, 1989, the fourth meeting of the Barataria Basin Policy Team (BBPT) was held in Room 1 on the second floor of the Jefferson Parish School Board Building, 501 Manhattan Blvd., Harvey, La. Roll call was at 9:36 A.M. Thirteen of the possible 25 representatives or alternates were present. Two representatives or alternates arrived after the roll call. A total of 15 representatives or alternates were present (Attachment).

The Summary of the August 29 Meeting of the BBPT was reviewed and accepted without modification or objection.

There was no old business to complete or technical reports to receive. Discussion moved directly into the consideration of the Passive policy statements for EMU 1. The Policy Team members discussed and analyzed the proposed policy statements. Several policies were modified and/or moved to other sections. Work was intensive from the opening until adjournment at approximately 3:40 P.M. Mr. Dugan Sabins, DEQ, will make a short report to the Policy Team on possible definitions of the term "full" as it applies to sewage treatment.

Several decisions were made by the Policy Team. First, the Facilitator will compile the revised policy statements for EMU 1 and the policies for Short-term Active projects for EMU 2. These will be distributed to the Policy Team within two weeks of the September 11 meeting. Second, the Facilitator will review the Policy statements for EMUs 3 and 4 and identify those which are similar to those revised for EMUs 1 and 2. This summary will be sent to the Policy Team with the revised policy statements. Third, the Policy

Team unaminuously voted to add a representative of the Governor's Coastal Advisory Committee and the National Park Service to the BBPT. Total membership of the BBPT is now 27. It was emphasized that these new members must agree to be active participants. Fourth, the issue of what constitutes a Quorum will be decided at the fifth BBPT meeting. Finally, the next meeting of the BBPT will be on October 12, 1989 at 9:30 A.M. in the LOUISIANA ROOM on the first floor of the NEW Department of Wildlife and Fisheries Building on Quail Drive in Baton Rouge. Exit I-10 at Essen Lane and drive to Perkins Road. Turn right on Perkins Road and travel approximately two miles. Turn left on Quail Drive. The new building is past the bridge on the left. See Attached map.

Mr. Greg DuCote has requested that Mr. Dugan Sabins, DEQ, make a twenty minute presentation on the relationship between DEQ and DHH and their respective water quality programs on point and non-point source pollution abatement. Mr. Sabins has been asked to have a written supplement for each BBPT representative.

Barataria Basin Policy Team

SEPTEMBER 11, 1989 Meeting Harvey, La.

ROLL CALL

FEDERAL

Corps of Engineers, New Orleans District -- Oscar Rowe

Environmental Protection Agency, Region VI -- Laura Townsend

Fish and Wildlife Service, Lafayette, La. -- Gerry Bodin

National Marine Fisheries Service, B.R., La. -- Ric Ruebsamen

National Oceanic and Atmospheric Administration -- Absent

Soil Conservation Service, Alexandria, La. -- Bill Savant

STATE

Environmental Quality -- Dugin Sabins

Health and Hospitals -- Absent

Natural Resources -- Greg DuCote

Wildlife and Fisheries -- Absent

LUMCON -- Lawrence Rozas

PARISHES

Assumption -- Absent

Jefferson -- John Uhl

Lafourche -- Ed Fike

Orleans -- Absent

Plaquemines -- Absent

St. Charles -- Gretchen Binet

St. James -- Kermit Kraemer

St. John -- Absent

SPECIAL INTEREST

Commercial fishing -- Absent

Conservation - Louisiana Nature Conservancy -- Absent

Land owners -- Allen Ensminger

Oil and gas industry -- Vincent Cottone

Sportsmen -- Edgar Veillon

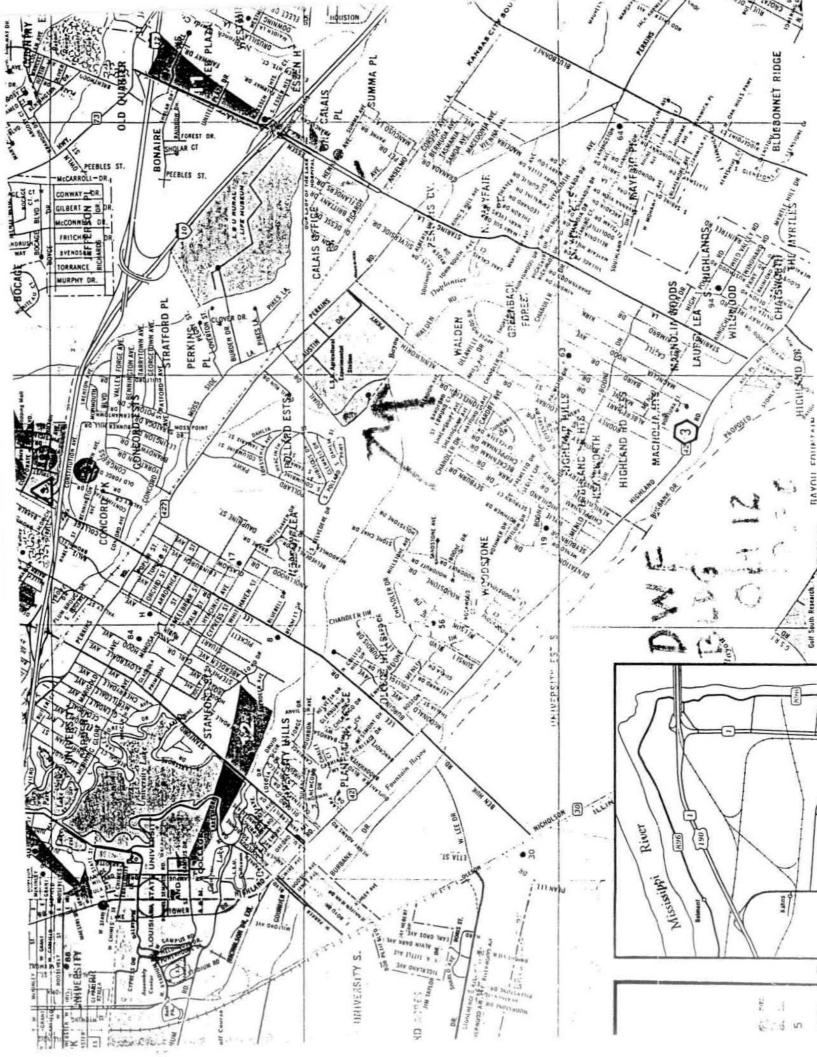
Trapping -- Absent

INTRODUCTION OF ALTERNATES AND VISITORS

Richard Hartman Sam Holder Frank Ehert Chuck Killebrew Mike Lyons George Neusaenger Ramona Mayer

15 PRESENT; 10 ABSENT

A QUORUM = 12 PRESENT.



WORKING DRAFT

RECOMMENDATIONS FOR POLICIES AND ACTIONS

in the

BARATARIA BASIN, LOUISIANA

prepared by

BARATARIA BASIN POLICY TEAM

SEPTEMBER 11, 1989

Rod E. Emmer, PhD. Facilitator

9-26-87 Don Elquezabal - CO &

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alignments of David Poul project. Degelopement
interests worth new alignment. COE will do

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the end of Oct. Dwing meeting with Paul.

Connect (It Charles) In Oct 21. COE must
argion to review will delay project a min of
one year gul Compliants Principles.

DOM ELGUEZABAL 862-2599 MANNAGER FOR DAVIS POND PROJECT



ATTENDANCE RECORD



DATE(S)

SPONSORING ORGANIZATION

12/14/89

USCOE

LADVV+F Bldg. BATON ROUGE

PURPOSE DAVIS POND POCK WEIR

	PARTICIPANT REGISTER *	
NAME	ORGANIZATION	TELEPHONE NUMBER
Dom ElquerABA	BLMNLC	862-2599
arl E. Anderson	LMNED	862-2610
aggy M. Jones	NMFS	389-0508
Pamela A. Deloach	LMNED	862-262/
Lisa Montelepre	LMNED-HD	862-2425
Ronny Paille	USFWS	318-264-6630
David Visha	CELMN-PD-RE	504-862-2540
Bill Good	DNR/CRD	504-342-730
John de Mond	CMDIDNA	504-342-7591
TREGORY J. DUCATE	MR/CMD	504/342-7591
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LMV FORM 583-R (replaces LMN 906) AUG 87 * If you wish to be furnished a copy of the attendance record, please indicate so next to your name.

State of Louisiana

OFFICE OF THE GOVERNOR

Baton Rouge

70804-9004

BUDDY ROEMER GOVERNOR September 28, 1989

POST OFFICE BOX 94004 (504) 342-7015

Colonel Richard V. Gorski, District Engineer U.S. Army Corps of Engineers
New Orleans District
P.O. Box 60267
New Orleans, LA 70160-0267

Dear Colonel Gorski:

Reference is made to your September 21, 1989, letter inquiring about the State's intentions relative to the Bonnet Carre' Preshwater Diversion Project. It is my understanding that we are being asked to agree to contribute 20 percent (approximately \$15 million) of the currently estimated first cost of the project and a like percentage of the annual operation and maintenance costs.

During a recent meeting, my Wetlands Conservation and Restoration Task Force reviewed the merits of both the Bonnet Carre' and the Davis Pond Freshwater Diversion Projects in light of this State's current wetland policy and its fiscal capability for cost-sharing in the construction of such projects. Based on these considerations, it was that group's unanimous recommendation that the State agree to provide 25 percent of the cost of construction, operation, and maintenance of the Davis Pond Structure despite Congressional authorization of that project at 100 percent federal cost. I fully support that recommendation contingent upon a federal commitment that the project schedule will be expedited to begin the construction phase (real estate acquisition) for the Davis Pond Project in federal fiscal year 1991, or earlier.

I also support the additional recommendation of my Task Force that the Bonnet Carre' project be put on hold until it can be compared with more efficient alternative vegetated wetland enhancement uses for limited Mississippi River water and sediment resources. This comparison could be accomplished during the cost-shared Louisiana Comprehensive Coastal Wetland Planning effort to be initiated this fall.

Clearly, projects like Davis Pond that enhance and conserve vegetated wetlands in a cost-effective manner are consistent with the Presidents's announced goal of no net loss of wetlands. We trust that you will support this State's recommendations to further that goal.

To advance further discussion on this matter, please contact David Soileau, my Coastal Activities Coordinator, at (504) 765-2812.

Sincerely.

Buddy Roeme

Governor

cc: David Soileau

Raymond W. Stephens, Jr.



DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT, CORPS OF ENGINEERS

P.O. BOX 60267

NEW ORLEANS, LOUISIANA 70160-0267

SEP 2 | 1939

Life Cycle Project Management Office

Honorable Buddy Roeser III Governor of Louisiana Post Office Box 94004 Baton Rouge, Louisiana 70804

Dear Governor Rormers

We have been advised that the Office of Management and Budget has completed its reexamination of the Mississippi and Louisiana Estuarine Areas project (the so-called Bonnet Carre' freshwater diversion structure). OMB has determined that the project should be treated as the kind of fish and wildlife enhancement project for which 25 percent non-Federal construction and operation and maintenance would be appropriate.

Based on an equitable distribution of benefits received, Louisiana's share is 20 percent and Mississippi's share is 5 percent of project costs. We currently estimate that the cost of construction will be \$76 million and the annual cost of operation and maintenance will be \$734,000. I enclose a more detailed cost breakout.

If we are to meet our proposed January 1995 completion date, we must conclude a Local Cost-Sharing Agreement by April 1990. In order to make this happen, I will need your written intentions on cost-sharing by October 20, 1989.

Sincerely,

Richard V. Gorski Colonel, U.S. Army District Engineer

Enclosure

MISSISSIPPI - LOUISIANA ESTUARINE COST ALLOCATION (\$000)

	TOTAL THE	RU 89	FY 90	FY 91	FY 92	FY 93	FY 94	FY 95	SCH BAL	PERCENT
TOTAL	76,000	3,337	1,674	9,100	11,200	11,300	23,000	2,800	13,589	100%
FEDERAL	57,000	3,337	474	6,800	8,400	8,500	17,200	2,100	10,189	75%
NON-FEDERAL	19,000	0	1,200	2,300	2,800	2,800	5,800	700	3,400	25%
LOUISIANA	15,200	0	960	1,840	2,240	2,240	4,640	560	2,720	20%
MISSISSIPPI	3,800	0	240	460	560	560	1,160	140	680	5%

Operation, Maintenance & Rehabilitation Yearly Cost (beginning Jan 1995)

TOTAL	734.0
FEDERAL	550.5
NON-FEDERAL	183.5
LOUISIANA	146.8
MISSISSIPPI	36.7

DAVIS POND FRESHWATER DIVERSION STRUCTURE

West Guide Levee Alignments

IMPACTS

Alignment No. 1 - Original alignment:

Most expensive alignment for Davis Pond project.

Least expensive alignment for Willowdale Hurricane Protection project.

3. Approximately 1,055 acres of wetlands would less likely be developed in the future will and federal agences.

4. Alignment preferred by DNR.

5. No direct delays to Davis Pond project.

Alignment No. 2 - Shortest alignment:

1. Least expensive alignment for Davis Pond project. Savings amount to approximately \$0.5 million.

Most expensive alignment for Willowdale Hurricane Protection.

project. Additional cost is approximately \$1 million.

3. Approximately 965 acres of wetlands would more likely be developed in the future. However, Section 404 permits would be required.

4. Benefit/cost (B/C) ratio for the Hurricane Protection project would be below 1.0 causing the Hurricane Protection feasibility study not to be initiated. There would be no Federal hurricane project proposed for west bank of St. Charles Parish (Willowdale area).

5. Davis Pond project would be delayed about 1 year to supplement the Environmental Impact Statement (EIS) and complete reviews.

Alignment preferred by two local property owners.

Alignment No. 3 - Compromise alignment:

1. Savings to Davis Pond project of about \$300,000

Increase Willowdale Hurricane Protection project cost about \$400,000.

3. Davis Pond project would be delayed about 1 year to supplement the Environmental Impact Statement (EIS) and complete reviews.

4. Approximately 545 acres of wetlands would more likely be developed in the future. However, Section 404 permits would be

5. Hurricane Protection project would have a very low B/C ratio and further study may indicate there would be no interest in a Federal hurricane protection project for the west bank of St. Charles Parish (Willowdale area).



DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT, CORPS OF ENGINEERS P.O. BOX 60267

NEW ORLEANS, LOUISIANA 70160-0267

October 6, 1989

REPLY TO ATTENTION OF:

Life Cycle Project Management Office

Mr. Gregory J. DuCote
Local Coastal Programs
Coastal Management Division
Department of Natural Resources
P.O. Box 44487
Baton Rouge, Louisiana 70804-4487

Dear Mr. DuCote:

As requested by the St. Charles Parish Council, a public meeting on the alternative west levee alignments for the Davis Pond Freshwater Diversion project has been scheduled for October 12, 1989 at 7:00 P.M. Participation by you, or a member of your staff, is requested.

Sincerely,

Encl

Domingo J. Elguezabal

Life Cycle Project Manager for Project Management

OCT 1 1 1989

COASTAL MANAGEMENT DIVISION

REPLY TO

L_PARTMENT OF THE ARMY

NEW ORLEANS DISTRICT, CORPS OF ENGINEERS P.O. BOX 50267

NEW ORLEANS, LOUISIANA 70160-0267

October 6, 1989

Life Cycle Project Management Office

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Sincerely,

Encl

Domingo J. Elguezabal Life Cycle Project Manager for Project Management



ST. CHARLES PARISH

COUNCIL

P. O. BOX 302 (504)783-6246 HAHNVILLE, LOUISIANA 70057 (504)466-1990

OCTOBER 5, 1989

COUNCIL

VICTOR E. BRADLEY, JR. COUNCILMAN AT LARGE, DIVISION A

STEVE SIRMON COUNCILMAN AT LARGE, DIVISION B

CHRIS A. TREGRE

JAY NOBERTS

STEVEN R. TALBOT

DANNY SOMME

CURTIS T. JOHNSON, SR.

RICHARD DUHE

W. PATRICK DANFORD DISTRICT VII PUBLIC NOTICE

A MEETING HAS BEEN SCHEDULED FOR THURSDAY, OCTOBER 12, 1989, 7:00 P.M., COUNCIL CHAMBERS, COURTHOUSE, HAHNVILLE, TO DISCUSS THE DAVIS POND FRESHWATER DIVERSION PROJECT.

BY ORDER OF THE COUNCIL CHAIRMAN

s/ STEVE SIRMON

PUBLISH IN RIVER PARISHES GUIDE OCTOBER 8, 12

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LCA- agreement teturen Stat & Fed.

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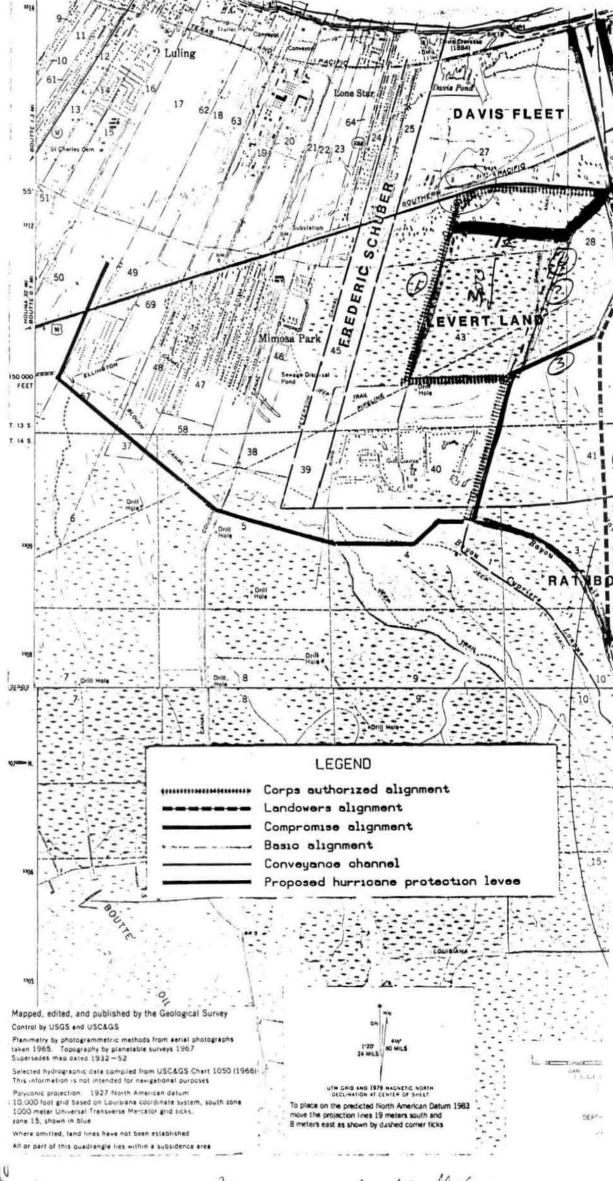
1500 acres - Notice Consenery

Note: Died Vigh - COE, NOWS, U.S. F. J. C. S. P. A.

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suggested

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be used the purchase of the area could not
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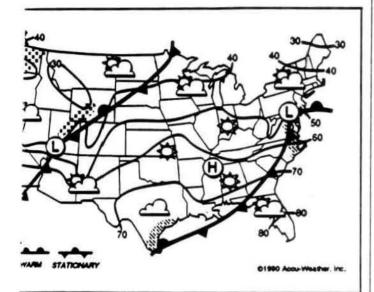
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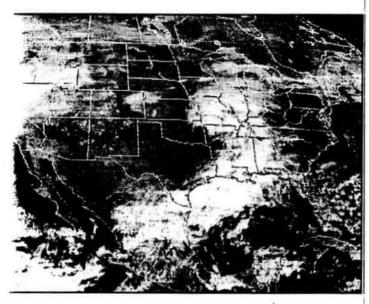
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forecast from the National Weather Service.



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er's forecast

н	Lo	City	Skies	н	Lo	City	Skies	H	L
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				7	2.00	San Juan, P.R.	sunny	85	6
				7.7		Seattle	rain	44	3
-		Miami Beach	ptcldy	100774	100		SUDDY	67	3
77.7		Minneapolis	ptcldy	43	23			52	3
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dav's tides

METRO NEWS

St. Charles irked to be overlooked on wetlands project

By LISA FRAZIER River Parishes bureau

St. Charles officials are taking the state and federal government to task for not notifying them earlier of a wetlands project planned in the parish.

The council Monday night unanimously approved a resolution asking the Army Corps of Engineers and the state's Department of Natural Resources to consult the parish before planning wetlands mitigation projects for St. Charles.

Through mitigation, companies that damage wetlands with construction or other projects are required to offset the damage by financing a wetlands enhancement project near the damaged area.

Council members were surprised in January when they learned that federal and state agencies had chosen an area next to the Salvadore Wildlife Management Area in Luling to mitigate wetlands damage caused by the Westwego-Harvey Canal hurricane levee in Jefferson Parish.

"St. Charles Parish officials were not consulted before this property was proposed for mitigation," Councilman Steve Talbot's resolution states. "The parish for which property is being considered for mitigation should have a voice in the planning process."

Though St. Charles wetlands will benefit from the mitigation, council members were upset because they were not consulted before the decision was made and because the mitigation conflicts with a separate project the council supports for the area.

The mitigation project would interfere with the proposed alignment for a freshwater diversion project that the corps plans to construct near Davis Pond. The project will divert fresh water from the Mississippi River into the coastal bays and marshes in the Barataria Basin to replenish them and battle coastal erosion.

The hurricane levee would mark the western boundary of the diversion project's stilling pond, used to warm the cool river water before it flows to the wetlands.

The corps has drafted a levee alignment that snakes around the area planned for mitigation. It includes 1,500 acres unnecessary to the project.

But an alternative alignment developed by the property owners and backed by the council would run straight north to south, split the mitigation site in half and leave the 1,500 acres for future use by the landowners.

The corps engineer for the diversion project. Domingo Elguezabal, said the landowners alternative alignment would complicate the mitigation efforts.

The council two weeks ago unanimously approved a resolution supporting the alternative alignment. Councilman Chris Tregre of Hahnville urged the council to fight: the corps if the agency refuses to realign the

La. fishermen eligible

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CDM - subscitting is fun

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Corps agrees to project assessment

Environmental editor By BOS ANDERSON

gineers has agreed to do an envi-ronmental assessment of what a proposed \$80 million project will do zations, the U.S. Army Corps of Enronmental and conservation organito Lake Pontchartrain. Bowing to the demands of envi-

questions about the impact on the water quality of the lake. project until the corps answers put up its share of the funds for the Louisiana has asked the state not to Sonnet Carre Freshwater Diversion The Coalition to Restore Coasta

Bruce Baird of the corps. "We're going to address all the is-sues raised by the public," said

the impact on fishing and recreation in the lake as a result of regular diversion of water from the Missis-The main concerns appear to be

sippi River into the lake, corps offi-cials said.

disproportionate share of the pro-ject, said Mark Davis, the coalition's damage and Louisiana is being diversion structure are largely unasked to pay what appears to be a known, could cause environmental executive director, in a letter to the The environmental impacts of the

off the Mississippi coast, Davis said in an interview. hat it would help oyster production The main benefit of the project is

construction and millions more for \$15.7 million toward the project's swered before the state commits that a number of questions be anposing the project, but suggested ts maintenance. The coalition stopped short of op-

manager of the project, said when Dom Elguezabal, the corps' senior

> the assessment is completed in sevsive Environmental Impact Stateeral months the corps will decide whether it needs to do a more inten-

was inadequate and the lake has changed a great deal in the last 10 ronmentalists maintained the work Impact Statement in 1984, but envi-The corps did an Environmental

are designed to add fresh water to areas where saltwater intrusion is a would be routed. problem. Environmentalists mainthe area where the fresh water ain that salinity is not a problem in Freshwater diversion structures

The project would be near the Bonnet Carre Spillway, which is used to route river water into the ease pressure on the river's levees. lake during times of flood to help

ocal man arrested in rape of 12-year-old

girl earlier this month, records accused him of raping a 12-year-old City police arrested a Baton Rouge man Wednesday night and

year-old Dwayne W. "Frog" Jenkins accuses him of raping the girl Feb. 14 in a garage in the 1700 block of Pocahontas Street. An arrest warrant issued for 18-

City police reported that four people have been cited for driving while intoxicated since Feb. 23.

Coursey Blvd., No. 1007, cited Feb. 23 for first-offense DWI, speeding

and driving under suspension.

Four cited on DWI counts here

against them are:

*Alphonse Giles, 39, of Route 1, The people cited and the counts

> Jenkins and another man alleg-edly coaxed the girl into drinking Jenkins is accused of raping the girl after the other man pulled her beer with them until she became intoxicated, according to the warrant.

When police arrested the other man, he told officers that Jenkins had sex with the girl, the warrant

clothes off, the warrant says.

Jenkins' picture and identified him In addition, the victim picked out he warrant says. viewing a lineup of six photographs, as the man who raped her after

count of aggravated rape, a prison 48th St., into Parish Prison on one spokesman said. Police booked Jenkins, of 1213 N

\$100,000, Thursday night with bond set at Jenkins remained in Parish Prison the prison spokesman

MONDAY OPEN bv

\$718 OFF LIST! Button Back Chair Top Grain

your choice of hunter green, cordovan o North Carolina. Covered in top grain les A most comfortable lounge chair and from CLASSIC LEATHER makers of exblue. Bunn feet in a mahogany finish quality leather sofas and chairs in Hi-

40"d, 33"h. A chair that you

CLASSIC

TABLEMeadowcraft quality 48" AND 4 OFF LIST!CHAIRS

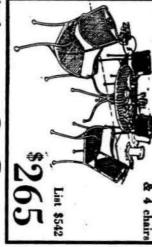
The actual chairs do not have the flower design on the arms and back. Chair size 26"w, 23"d, 33"H. Only 10 sets to sell, table chairs in your choice of black or oxford blue An excellent buy at a special price just in ime to the outdoor season. Table & stacking

43%

Excellent Finish 3

chair & ottoma for years to co

List \$10



Stiffel, America's Super Special Sa with this beautif

Lamp by

shade ... and 3 way bright old brass This 30" tall table

FURNITURE

DWI and improper lane usage. Thomas Moore, 30, of 334 Brice
 St., cited Feb. 23 for first-offense

sJohn I. Landry. 40. of 13526 second-offense DWI and speeding Lisa K. Fontenot, 26, of 8 Cedar Place, Hammond, cited Feb. 23 for

first-offense DWI, improper lane Box 122, Roseland, cited Feb. 24 for

From:

Katherine Vaughan

To:

Chuck Villarrubia

Date:

Wed, Apr 8, 1998 1:09 PM

Subject:

Re: permits

It is my understanding the Corps uses an E/A, not a permit and the state will have to make a consistency call. Please let me know if I'm not correct on this.

Katherine

>>> Chuck Villarrubia 04/08/98 12:54PM >>> Katherine,

Do you want permits for WRDA (Davis Pond and Caernarvon); I checked with CMD and they are largely consistency determinations. There are of course other permitted activities in the project boundaries.

Charles R. Villarrubia
Natural Resource Geoscience Supervisor
LA Department of Natural Resources
Coastal Restoration Division
PO Box 94396
Baton Rouge, LA 70804-94396
504-342-0932
fax 504-342-9417
chuckv@dnr.state.la.us

CC:

Bill Good

Davis Pond

C 840314 X

C 910249 X

C 910248 Z A-4

C 960109 J- Pipeline relocations

C 940164 Cuxt-grae

Carnaryon

C Applicant

C840069

C850719+

C940412 -

Applicant name brief description of activities ruliwied

Issue date

MEMORANDUM

MARCH 3, 1998

TO: Mr. Gerry Duszynski, Assistant Administrator

Ms. Diane Smith, Assistant Administrator

FROM: Katherine G. Vaughan,

Assistant Secretary

RE: Permit information for CWPPRA projects

In an effort to consolidate information regarding long term obligations under the CWPPRA program, I am evaluating permit obligations for individual CWPPRA projects. Accordingly, please have Project Managers compile the following information for each CWPPRA project under their management: a list of all permits (or applications) for each CWPPRA project, including permit number(s), permittee (or applicant), a brief description of the activity authorized by the permit, and beginning and expiration dates of the permit. Bear in mind that most projects will have regulatory approvals from both the state (Coastal Use Permit and/or Federal Consistency Determination) and the Corps (Section 10/404 permits).

Additionally, please ensure that the quarterly reports include this information and that it is updated by the Project Managers on a regular basis.

Thanks!

MEMORANDUM

April 13, 1998 DRAFT

Brian Marcks

From: Jeff Harris

Re:

Coastal Use Consistencies relevant to Davis Pond and Carnarvon Freshwater Diversion Projects, St. Charles and

Plaquemines Parish, Louisiana

Following is a listing of Consistencies files within the above referenced areas, together with applicant name, brief project description and issuance date.

DAVIS POND

C840314, New Orleans District, Corps of Engineers, provides feasibility study for plans for the construction and operation of Mississippi River freshwater diversion structures in the Davis Pond area of St. Charles Parish and in the Canarvon area of Plaquemines Parish, Louisiana. Consistency granted by DNR August 8, 1984.

C910249, New Orleans District, Corps of Engineers, provides changes in the West levee alignment and facility operation plans to accomodate changes caused by construction and interchanges

associated with upgrade of U. S. 90 in the vicinity of Davis Pond. DNR Consistency granted May 18, 1992. Check date u/ Brench

C930379, New Orleans District, Corps of Engineers, modification of the Davis Pond Freshwater Diversion Structure consisting of a change in pumping capacity and construction of rock weir. Consistency granted Dec. 15, 1993.

Canarvon

C840314, New Orleans District, Corps of Engineers, provides feasibility study of plans for the construction and operation of Mississippi River freshwater diversion structures in the Canarvon area of Plaquemines Parish and Davis Pond area of St. Charles Parish, Louisiana. DNR Consistency granted May 18, 1984.

C850719, New Orleans District, Corps of Engineers, provides plans for the construction and operation of a Mississippi River freshwater diversion project at Canarvon, Plaquemines Parish, Louisiana. DNR Consistency granted Dec. 5, 1985.

check date u Brush

PERTINENT DATA

Location of Project:

Southeastern Louisiana in St. Charles Parish on the west bank of the Mississippi near Mile 118 AHP. 1

Project Purpose:

To introduce freshwater from the Mississippi River into the Barataria

Area of Influence

Datum Plane

National Geodetic Vertical Datum

(NGVD)2

Hydrologic Data

Temperature (°F)	82.0
Average maximum monthly	5 1. 8
Average minimum monthly	68.9
Average annual	

Precipitation Average maximum Average minimum Average annual

Structure

Capacity	10,650 cfs
Box Culvert	4
Gates	4
Dimensions:	
Gross Width of Structure	71 feet
Clear Width of Structure	56 feet
Length of Culverts	353.5 feet
Clear Width of U-Shape Channel	
(Inflow Monoliths)	65 to 85 feet
Length of U-Shape Channel	
(Inflow Monoliths)	66.5 feet
Clear Width of U-Shape Channel	
(Outflow Monoliths)	65 to 88 feet
Length of U-Shape Channel	123 feet
(Outflow Monoliths)	

¹Refers to Above Head of Passes (AHP)

²Elevations herein are in feet referred to National Geodetic Vertical Datum (NGVD) unless otherwise noted.

Elevations

Invert of Culvert -11.0

Roof of Culvert +6.0

Top of U-Shape Channel Slab
(Inflow Monoliths) -11.0

Top of U-Shape Channel Walls
(Inflow Monoliths)

Top of U-Shape Channel Slab
(Outflow Monoliths) -11.0 to -15.5

Inflow Channel

Top of U-Shape Channel Walls

(Outflow Monoliths)

Length 535 feet
Bottom Width 85 feet
Bottom Elevation -11.0
Side Slopes 1V on 3H

Outflow Channel

Length
Bottom Width
Bottom Elevation
Side Slopes

11,043 feet
120 feet
17 on 3H,
18 of the state of the state

Weir

 Length
 10,500 feet

 Width
 20 to 30 feet

 Elevation
 +1.6

Levees

MRL B/L Sta

Top Width

Design Elevation

Side Slopes

Outflow Channel Guide Levees

Top Width 10 feet
Design Elevation 7.0
Side Slopes 1V on 4H

Ponding Area Guide Levees

Top Width 8 feet 4
Design Elevation 7.0 to 5.0
Side Slopes 1V on 4H

Met with I Non Gomes

Done fould found found Augusting

Ful Whitroch

52 Parant

A Davis Pond Primer

4/17/90 2:00 pm

HISTORY

1/26/83: Kevin Friloux, St. Charles Parish President, drafts eight point manifesto and sends it to Col. Lee. He demands:

- no expense to St. Charles for construction, operations or maintenance of "facility".
- 2) involvement of St. Charles in facility operation.
- 3) hurricane levee on west side.
- 4) reclassification of wetlands of particular concern to St. Charles as non-wetlands.
- 5) permits for designated levees and 5 pump stations.
- 6) state or federal funding for pump station operation.
- 7) state or federal funding for mosquito control abatement.
- 8) adequate financial remuneration for affected landowners.

5/20/83: Gerald Bordelon (Treen Administration), Coastal Protection Task Force Chairman, responds to Friloux indicating that due to State's financial situation, funding for additional costs to Davis Pond Project was not available.

6/20/83: Col. Lee responds to Friloux stating that enlarging west guide levee was beyond the scope of the project, no commitments made.

7/14/83: St. Charles passes resolution 2479 opposing Davis Pond Project until Friloux' 8 point plan is negotiated.

12/2/83: Friloux writes to Gov. Edwards asking whether his administration will support Davis Pond Project.

3/12/84: Friloux asks Gov. Edwards to have DNR Secretary (Wm. Huls) provide him with State's position regarding Davis Pond.

3/19/84: Gov. Edwards acknowledges Friloux' letter, promises response from Mike Bourgeois, DNR Deputy Secretary.

6/4/84: St. Charles Parish Council passes Resolution 2610 (introduced by Friloux) tentatively approving Davis Pond, under the following conditions:

- no expense to St. Charles for construction, operation or maintenance.
- 2) St. Charles involved in operation of the structure

Davis Pond, cont.

- 3) 2 pumps are provided as indicated
- 4) West guide levee shall conform to 100 year frequency storm elevation.
- State, federal and local advisory council be formed for review of project design and construction.
- 6) "Consideration of straightening the western guide levee from Highway 90 to Willowdale Subdivision."
- 7) Consideration of flooding impacts on Des Allemands.
- Considerations of concerns expressed by Rathborne Land Co.

7/19/84: Mike Bourgeois writes Col. Lee (cc: Friloux) acquiescing to all of the parish's (above) demands... "The conditions requested by the Parish are reasonable and must be honored by the Corps in order for the State to support the project.... If the Corps elects to design the levee at a lower level, the State will increase its match to cover the additional cost for raising the levee to the 100-year flood level."

7/31/84: Col. Lee sends Bourgeois (cc: Friloux) letter supporting position DNR's position on Davis Pond.

8/13/84: Friloux tells Bourgeois that Corps' response is not satisfactory, he wants clearer indication of commitment on pump stations and on the straightening of the west levee alignment.

7/27/88: Ray Stephens rescinds the commitments of 7/19/84, and suggests DOTD, Public Works as potential source of funding for west levee enlargement. World and level burners grotation with the commitments of 7/19/84.

10/18/89: St. Charles adopts a resolution (#3413) that all State Agencies coordinate with the parish on projects in their area.

1/22/90: St. Charles adopts a resolution (#3419) requesting that the west guide levee at Davis Pond conform to "Alignment 2".

3/13/90: Ray Davezac, Director of Public Works/Sewerage, St Charles PArish requests that DNR "verify if the planned expenditure for this portion of the Diversion Project [the Cousin's Canal Pumping Station] is \$1,000,000.00 as discussed and the approximate date the Parish will receive these funds".

Courses la

Davis Pond, cont.

CURRENT STATUS

- A: Issues to be resolved:
- 1) West levee alignment. A in planned.
- 2) West levee height. hill to project used.
- 3) Cousin's Canal Pumping Station (\$1,000,000).
- 4) Pumping station operations and maintenance.
- 5) LCA language regarding hazardous waste cleanup, etc.
- B. Items needed by the end of June:
- 1) Draft LCA.
- DNR's intent to sign LCA.
- 3) Financial Plan.

Interchange objenment

L. C.A.on 24th -

T J. Brown - COE Realents - Estator has been found that meets approval of Newmon trobulge.

Estimote \$1,000/acre

Open 7 ml of 10.

Sorlean et. \$1,000,000 to get full fee value.

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DAVIS POND MEETING

Purpose: Review technical and environmental pros and cons of various west levee alignments.

Note: Policy on this issue to be determined by Louisiana Wetland Conervation Authority <u>not</u> Coastal Restoration Division.

Ouestions for Discussion:

- Would original alignment result in the destruction of 1500 acres of crevasse splay vidge and swale bottomland hardwoods that could be avoided through alignment 2 if this area could be protected from development?
- 2) Would alignment 2 result in potential development of the area between alignment 2 and the original alignment?
 - a. Would entire area within original boundaries be purchased and deeded to LWF if alignment 2 used?
 - b. Would area in question remain under permitting and consistency jurisdiction of (COE and CMD)?

Both 404 and coastal use permitting?

- 3) Would original alignment negatively impact hydrology (wetlands) west of NW corner of pond?
- 4) How do costs of construction and 0 & M of original and #2 compare?
- 5) Would #2 present serious management difficulties to LWF?
- 6) How much delay would #2 cause?
- 7) General discussion.

Davis Pond

Bill Good Dom ElGUERABA Carl Anderson Quin Kinler Lisa Montelepre Sue Hawles David Vish Ric Ruebsamen Johnnie Tarver Mise wadien Michael S. Rolland THAD J. Brown Jeanene Peckham John de Mond Reggy M. Jones Bill Savant Bill Good Gretchen Binet

DNR/CRD 342-7508 COE/PRIJ. Mar. 862-2599 COE/ Engr. Div 862-2610 FWS 318-264-6630 COE/Hydraulis Br. 862-2425 862 2318 COE / Envivormental COE/ Enchampter 862-2540 504/389-0508 NMFS DWF/FHRDW. 504 165 2811 for / Inii. : 19-568-5816 COE/REALESTATE (504) 862-1987 (OE/RealEst ofe 504 862 115° EPA-6 214-655-2263 CMD/DUA-Cousisterry 504-342-7521 NMFS 504-389-0508 DWR/CRD 504-342-7305 ANR/CRD 504-342-7308 St. Charles Parish 504-783-660 JOHN BREAUX LOUISIANA

COMMITTEES:

COMMERCE, SCIENCE, AND TRANSPORTATION

> **ENVIRONMENT AND PUBLIC WORKS**

SPECIAL COMMITTEE ON AGING

United States Senate

WASHINGTON, DC 20510

March 13, 1990

St. Charles Coastal Zone Advisory Committee

Dear Gretchen:

P.O. Box 302 Hahnville, LA

Gretchen Binet Administrator

In response to your letter on behalf of the Lake Charles Coastal Zone Advisory Committee recommending that the U.S. Army Corps of Engineers pursue the original west guide levee alignment, I contacted federal officials. Enclosed is the response provided to me from the U.S. Army Corps of Engineers.

If I can assist you in any other way, please call on me at any time.

With kind regards,

70057

JOHN BREAUX

United States Senator

JB/jag Enclosure Central Louisiana Office: 534 Murray Street Alexandria, LA 71301 (318) 473-7370

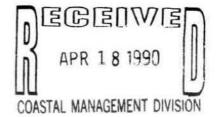
... WASHINGTON OFFICE: -

(202) 224-4623

South Louisiana Office: The Federal Building 705 Jefferson Street, Room 103 Lafayette, LA 70501 (318) 264-6871

North Louisiana Office: Washington Square Annex Building 211 North 3rd Street, Room 102A Monroe, LA 71201 (318) 325-3320

New Orleans Area Office: Hale Boggs Federal Building 501 Magazine Street, Suite 1005 New Orleans, LA 70130 (504) 589-2531





DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT, CORPS OF ENGINEERS 2 11 9: 52

NEW ORLEANS, LOUISIANA 70160-0267

March 6, 1990

REPLY TO ATTENTION OF: Life Cycle Project Management Office

Honorable John Breaux United States Senate Washington, DC 20510

Dear Senator Breaux:

In your letter of February 5, 1990, forwarding a letter from Mrs. Gretchen Binet, you asked about the alignment for the west guide levee of the Davis Pond Freshwater Diversion project.

Enclosed is a fact sheet on the project that includes information on the alignment of this levee. Based on position taken by the State of Louisiana and Federal environmental resource agencies, I have decided to proceed with the authorized project alignment.

Sincerely,

hard V. Gorski Colonel, U.S. Army District Engineer

Enclosure

FACT SHEET

DAVIS POND, LA (MISSISSIPPI DELTA REGION)

AUTHORITY: The project was authorized by the Flood Control Act of 1965, (Public Law 89-298), the Water Resources Development Act of 1974 (Public Law 93-251), and the Water Resources Development Act of 1986 (Public Law 99-622).

PROJECT JUSTIFICATION: Deterioration of the marshes below New Orleans has long been recognized. This deterioration stems from factors such as subsidence, erosion, and saltwater intrusion. The introduction of freshwater and alluviums from the Mississippi River, via the recommended control structure, will serve to reduce this degenerating trend in the local area. The project will benefit existing commercial fisheries by enhancing marsh conditions, thereby improving the fish and wildlife resources of the area. The total average annual benefits include \$9,181,000 for fish and wildlife benefits and \$237,000 for recreation benefits, for a total of \$9,418,000. The remaining benefit - remaining cost ratio is 3.1 to 1 at 8 7/8 percent.

EXPECTED PROJECT OUTPUTS: The project will divert freshwater from the Mississippi River to coastal bays and marshes in the Barataria Bay basin for fish and wildlife enhancement. Benefits will include restoration of former ecological conditions by controlling salinity and supplementing nutrients. The bays are important to oyster production and as breeding areas for shrimp and food fishes while the marsh areas produce natural food for fur-bearing animals and migratory waterfowl. A total of 83,000 acres of marsh land will be perserved and 777,000 acres of marshes and bays will be benefited by the project. The diversion will take place under regulated conditions developed from monitoring the impact on the environment, and the fish and wildlife.

PROJECT DEVELOPMENTAL HISTORY: Initial Mississippi Delta Region studies were suspended in 1973 at the request of local interests who were restudying freshwater needs in the area. The project remained inactive until January 1982, when the State of Louisiana indicated an interest in implementing the Caernarvon structure. A Post-Authorization Change (PAC) report was approved in June 1987, authorizing the Myrtle Grove site on the west bank to be moved upstream to a site called Davis Pond.

PROJECT FACT SHEET DAVIS POND, LA (MISSISSIPPI DELTA REGION)

This change will increase the marsh area benefited and will maximize total benefits. The State of Louisiana has provided a letter of intent dated 28 September 1989, for the Davis Pond site. General Design Memorandum studies were begun in FY 1988, and are scheduled for completion in June 1990 with start of construction (land acquisition) scheduled for FY91. Present estimated project cost is \$40.8 million, (1 October 1989 price levels).

FUNDING REQUIREMENTS: Section 77 of the Water Resources
Development act of 1974 (PL 93-251) modified the requirements of
local cooperation to reduce the local interest's contribution
from 50 percent to 25 percent of the project cost. Section 906f
of the Water Resources Development Act of 1986 (PL 99-662)
changed the required non-Federal contribution from 25 percent of
the project first cost to zero. However, in their letter of 28
September 1989, the State of Louisiana agreed to voluntarily
contribute 25 percent toward the first cost of Davis Pond
Structure.

Estimated Federal Cost	\$30,600,000
Estimated Non-Federal Cost	10,200,000
Total Estimated Project Cost	40,800,000
FY90 Allocation	\$ 399,000
Allocations to Date	2,051,000
FY91 Budget Request	845,000
Balance to Complete after FY90	27,704,000

WEST GUIDE LEVEE ALIGNMENT

The project, as originally authorized, provided for the west guide levee south of Highway 90 to follow an alignment that bordered existing development or permitted areas (Alignment #1). This alignment was arrived at after several negotiations between the environmental resource agencies and the Corps and provided for the most benefits to the wetlands.

During preparation of the Feasibility report alternate alignments were considered; but, the authorized alignment was the environmentally preferred plan and maximized intangible wetland benefits.

PROJECT FACT SHEET
DAVIS POND, LA (MISSISSIPPI DELTA REGION)

In October 1988, Congressman Tauzin asked that the Corps look into two alignments being proposed by two of the local landowners. Upon completion of surveys and soil borings, it was determined that one of the proposed alignments, with slight modifications (Alignment #2), would reduce project costs by about \$500,000, but would cause a 12 to 18 month delay to the project because of requirements for a supplement to the EIS. An alternate alignment, Alignment #3, would yield savings of approximately \$300,000 but would still delay the project 12-18 months.

The State asked that the authorized alignment be used. This was concurred in by other environmental agencies. However, St. Charles Parish feels that the project would be limiting the future growth of the Parish by taking lands not actually needed for project operation.

After considering all the facts related to the levee alignment and the input from interested Federal, State and Local agencies, the Corps decided to follow the authorized alignment. However, if the State requests a change to another alignment, then consideration to such a change will be given.

The September 11, 1989 Working Draft of the Recommendations for Policies and Actions by the Barataria Basin Policy Team has been revised to reflect changes made at BBPT meetings. All of the policies in EMU 1 and EMU 2 through Short-term, Active policies have been revised. Where policies have been moved to another section the policies are now shown in italics. This draft also includes policies received after the initial compilation. These policies are shown as underlined text. Finally, the BBPT requested identification of policies in EMU 3 & 4 which are identical or similar to what has been decided. These policies are marked by enlarged and bold numbers, eg. 3.

Should you have any questions or need anything, please do not hesitate to call or write Rod E. Emmer or Ray Sauvage, 1260 Main Street, Baton Rouge, La. 70806, (504) 383-7455.

DEPARTMENT OF NATURAL RESOURCES Coastal Management Division for your information and for anyone else who might be interested Danyl, Bo etc, P.O. Box 94124 . Baton Rouge, Louisiana 70804-9124 . 504/342-7591

Caernawon Fashwath Diversion biological monitoris - 3 phases 3 or pre construction 4 yr. post-construction program 46 y long term program Marsh regention monitoring - total of 100 miles of transacts (Chabuck + Linesoners) - use LUDAN a coordinates by helicysten - could estimate made with helicith hovering - all march species present and percent congration - observations of submight aquate ment + notallow quanta frater of changes in march orange From a stone by GIS at CMD/ muskrat populations simultaneously up voget - also noter for joyand fisheries orgites - agent set interesties on white - grow - out trayo

shring - continue present efforts along with additional trawl status and strong and solve cross and collected and monitored

isobalines water temp and conductivity

Advocate statt writer BY TIM TALLEY

best qualified for the job. udgeship in the 19th Judicial District Court igree that the chief issue is which of them is Both candidates in the race for the Division J

qualified to take over the district court sent.
"Who can do the better job?" Dersona said professional backgrounds make them best "Larry" Dersona, maintain that their Curtis A. Calloway and attorney Lawrence Each of the candidates, City Court Judge

E 食 E 是 15 0

that can best dispense justice, he said. The election should be won by the candidate "It's a lifelong ambition to be judge," he said

Early

"I had a calling from God to enter this race. God has touched me to offer myself for public

qualified candidate." Certainly, in this race, I certainly am the most Calloway said the election's only issue is the ability to do the job — that's about it.

o'clock. When people call me I try to get them some help," Calloway said. Court) is open to scrutiny. I'm here until t "The job that I have done over here (in City

"I'm looking forward to going over there (district court) and working," he said.

Calloway, 52, and Dersona, 36, will face each

district court seat. Each candidate is a other in the Oct. 3 primary election for the

judgeships up for grabs in a newly-created, predominantly black election subdistrict The Division J judgeship is one of three

> partshwide Juris diction, but only voters within jurists. The district court judgeships have he subdistrict will participate in the election.

has been filled with temporary judicial retirement of former Judge L.J. Hymel and permanent replacement was elected. appointments by the state Supreme Court until Division J was vacated in March by the

Vietnam, is a graduate of the Southern University Law Center and was in private practice for 16 years before be was elected to a six-year term on the City Court in 1988. Calloway, a U.S. Marine Corps veteran of

Calloway has handled both criminal and civil management of the court since he took his seat improvements in the operation and Calloway said he has played an active role in

> was three years ago," he said "City Court is a much better place than it

by the court. City Court has jurisdiction over misdemeanor and traffic offenses within the docketing system for criminal charges handled City Court judges have implemented

initiated regular weekly meetings to discusissues that affect the court. Calloway said City Court Judges have also

particularly interested in helping the victims of alcohol abuse through referrals to system as a district court judge. He said he is rehabilitation services. Calloway said he also wants to influence the

☐ See ISSUE, Page 28

arrest reported civil deputy's Tangipahoa

ays

shy enty

Advocate staff writer

arrested one of his civil deputies Friday ifternoon after an audit of his office found

Chuck Roed said with the missing funds, sheriff's spokesman First St., Ponchatoula, for theft in connection

Layrisson accused Joiner of embezzling the

of the Sheriff's Office in a section that Joiner worked in the Hammond substation

required handling cash from the public. woman allegedly took the funds, her Although Roed said be did not know how the

ВУ СИНІЗТОРИКЯ ВАЦСИМАН

Tangipahoa Parish Sheriff Ed Layrisson

hortage of about \$56,000, a spokesman said. Layrisson arrested Melba Joiner of 696 S.

ers

funds over the last year, Reed said.

distributes hunting licenses to the public.

☐ See DEPUTY, Page 28

project finally OK'd, DNR says Davis Pond coastal restoration

By BOB ANDERSON ADOCA IE 924 92

The state has won a battle with the U.S. Army Corps of Engineers for approval of what state coastal officials said is the most important coastal restoration project planned for the state. Davis Pond is the most significant and important coastal project of all those that have been built or are on the drawing board, said

corps of intentionally delaying the project. After 10 years of preparation work, the project appeared to be held up at corps headquarters in Washington, D.C.
But DNR officials said that with the help of U.S. Sen. J. Bennett Dave Solleau, assistant secretary of DNR.

The Louisians Department of Natural Resources had accused the

Johnston, D-La., they have gotten top corps officials to approve construction of the \$67 million Davis Pond project, which will help to protect hundreds of thousands of acres of important marsh south of

The assistant secretary of the Army has approved" the project

and the paperwork is "en route back to New Orleans for implementation," Solleau said.

All that has to be done now is to acquire the land and finish the final

the ground within a couple of years," Soileau said.

That project will directly preserve 83,000 scres of marsh and benefit more than 750,000 other acres in the Barataria Basin, Soileau Project design and engineering, he said.

That should begin in a few days and there should be "a project on

frustrated by delays that had put the project more than a year-and-a-half behind schedule and what Soileau called attempts by corps reduce spending headquarters to stall the work as part of an election-year attempt to But Soileau and other DNR coastal officials had become

A corps spokesman said there had been questions about the project at corps' headquarters in Washington, D.C. and talk of reducing its

☐ 800 POHD, Page 28

INSIDE

Deborah Sternberg says White House sidelines are terrific

DIPLOMACY

Businessman gives shuttle diplomacy new meaning as pen pal courses



Some hurricane victims reluctant to INDEPENDENT accept help from government



sancing his ict judge. ice report ampaign a reporting

to printing

The city court judge spent \$14,819 on the campaign and had \$653 in in-kind contributions

Calloway's contributions include \$400 from a political committee and \$11,675 raised from the sale of tickets to a campaign fund-raising event, the report states.

Major contributors include: John J. Pace, \$500; United Brotherhood of Carpenters and Joiners of America Local Union 1098-CARPIC, \$400; Marks & Lear, \$250; Rick A. Caballero, \$1,000; Paul H. Due, \$1,000; Jo A. Fleming, \$350; Newman, Mathis, Brady, Wakefield & Spedale, \$300; Ferrara Fire Apparatus Inc., \$250; George and George Ltd., \$250; Lawrence A. Durant, \$250; Thibaut, Thibaut, Bacot & Latchem, \$250; Taylor, Porter, Brooks & Phillips, \$500; Ferrara & Eyre, \$500;

Antony J. Marabella Jr., \$250; Mathews, Atkinson, Guglielmo, Marks & Day, \$250; Syed A. Salat & Associates, \$250; Raymond L. Simmons, \$250; Mr.

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Deputy

CONTINUED FROM 18

Reed said Joiner sometimes worked by berself in a room.

As a civil deputy, Joiner did office work and did not carry a gun or make - arrests, Reed said.

The missing funds first came to light during a yearly internal audit begun in July, Reed said.

The Sheriff's Office called in an outside auditor to confirm the findings. After that was done, Reed said both auditors presented their findings to Layrisson.

After her arrest, Joiner admitted she had taken the money, Reed said.

"It is my understanding that there was a confession and an agreement to assist in the investigation," Reed said. But Reed said he did not know if

Joiner told investigators why she took the money or what she did with it.

Joiner has worked in the Sheriff's Office for eight years, Reed said, and her arrest stunned him.

"She was involved with charity functions and was well-respected in the neighborhood," Reed said. "It was a shock to everybody."

Layrisson booked Joiner into the Hammond substation, Reed said.

She bonded out on a personal property and surety bond a short time later, be



Lawrence 'Larry' Dersona: Division J candidate

or Mrs. Karl Koch, \$250; Steven F. or Linda B. Watkins, \$250; G. Stephen Covert, \$250; Thomas C. D'Amico, \$250; Etta Kay Hearn, \$250; Greco & Greco, \$250; Lewis O. Unglesby, \$250; Paul Richard Matzen, \$250; L.D. Sledge, \$500; and Walter Landry Smith, \$1,000.

Pond

CONTINUED FROM 1B

That project will directly preserve 83,000 acres of marsh and benefit more than 750,000 other acres in the Barutaria Basin, Soileau said.

But Soileau and other DNR coastal officials had become frustrated by delays that had put the project more than a year-and-a-balf behind schedule and what Soileau called attempts by corps headquarters to stall the work as part of an election-year attempt to reduce spending.

A corps spokesman said there had been questions about the project at corps' headquarters in Washington, D.C. and talk of reducing its size and cost.

The project will deliver 10,500 cubic feet a second of fresh water to Lake Cataouatche, Lake Salvadore and Barataria Bay.

It will help to imitate the water that built and nourished the marshes before levees were constructed along the Mississippi River. Without that water and the sediment it carries, the marshes are subsiding and eroding at a rapid

The state's marsh is considered Important habitat for waterfowl and other wildlife and a necessary nursery grounds for most of the species that make Louisiana a national leader in fish

The marsh below New Orleans is also considered a vital storm buffer to the city, which is below sea level, because each mile of marsh has the capability of reducing storm surge by 1 foot and also beiping to reduce hurricane wind velocity.

her with a knife. Emergency workers treated her for lacerations before taking her to the Baton Rouge General Medical Center.

Police were searching for the assallant Sunday evening, described by Cavell as a black man in his 30s. A witness who saw the man running from the scene said he was wearing a turquoise T-shirt, a blue ball cap and dark shorts.

Another witness saw a man fitting that description leaving the area in an witness said he sa description of 1 shirtless, driving truck.

Several resident gathered after commented on the attack occurring as of the afternoon n populated apartme

Police are askin any information abo 389-3853.

City police officials say man sho

A 30-year-old man was shot twice Sunday night while talking to someone in a car on West Johnson Street, city police spokesman Cpl. Kevin Cavell

Another person may have been injured in the shooting, but investigators were not sure, Cavell said.

The man, who was shot once in the arm and once in the back, walked into the police department's Second District after the incident.

Emergency Medical Services personnel at the scene said the man went into shock and had to be taken to Our Lady of the Lake Regional Medical Center.

Cavell said the victim was shot while

talking to some men Investigators did

the shooting late Su Chris Robinson s down the road from shooting occurred.

Robinson said t traffic on West Job suspects' car was b the victim asked the

The men in the : stopped and when them to move again back seat fired se victim.

"They shot that Robinson said.

He said there we



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pieces

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. Plank Rd. across from Delmont Shop, Ctr. . 7746 Scenic Hwy. (

. Jones Creek next to Hi-Nabor

• 12278 Plank Rd. (B

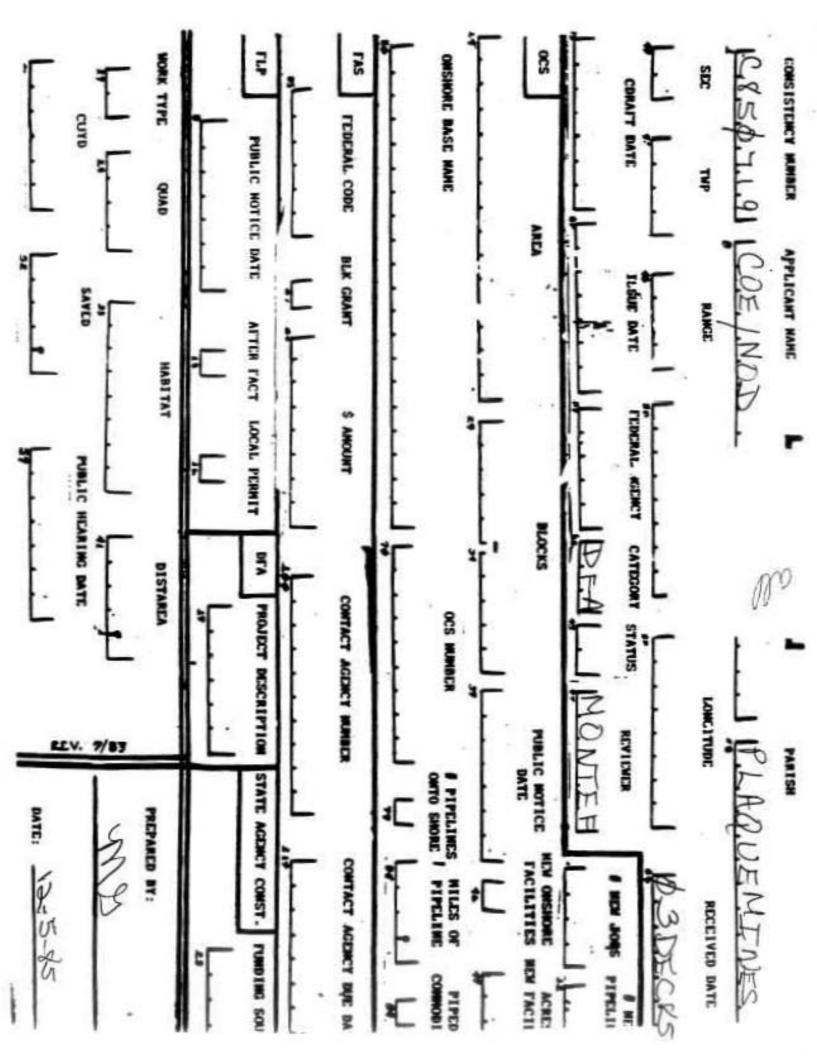
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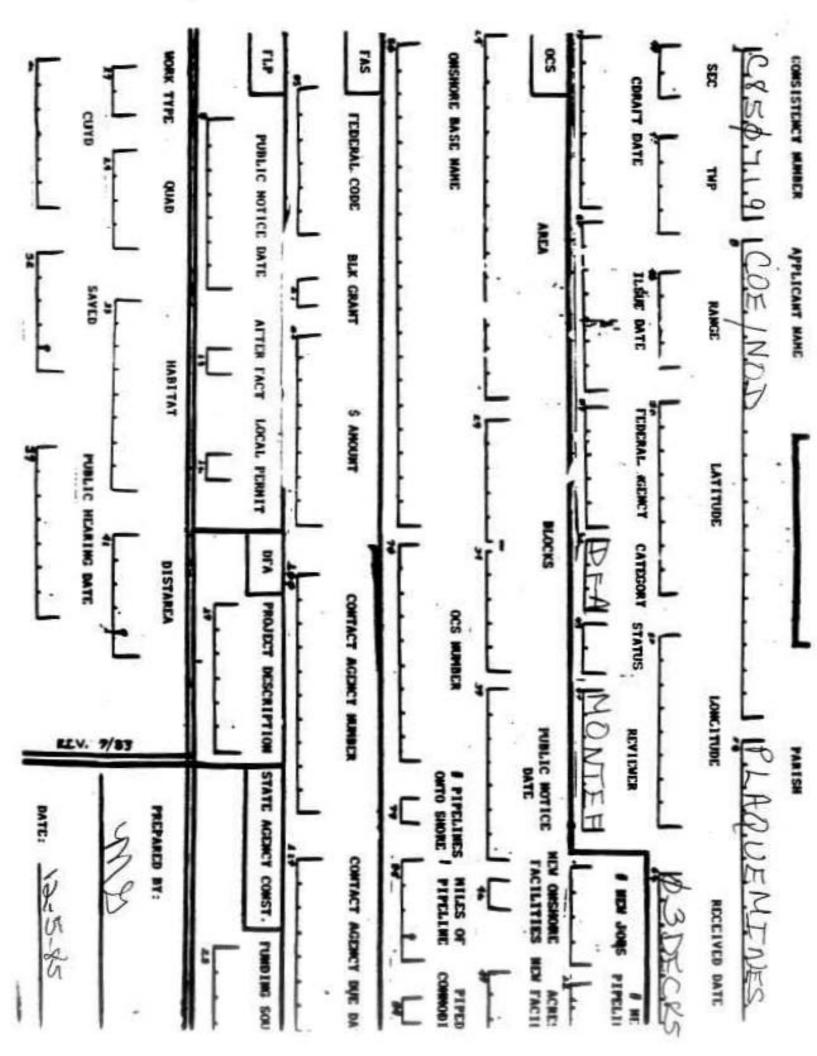
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Shopping Center)

*In-Store







CEPT. OF NATURAL RESOURCES
COASTAL MANAGEMENT DIVISION
DEPARTMENT OF WILDLIFE AND FISHERIES
POST OFFICE BOX 5570
BATON ROUGE, LA 70895

EDWIN W EDWARDS

J. BURTON ANGELLE, SR SECRETARY SO 4 825 3017

November 18, 1985

Dr. Stuart J. Guey, Jr. Commissioner of Health Plaquemines Parish Commission Council 106 Avenue "G" Belle Chasse, LA 70037

Dear Dr. Guey:

This is in response to your letter of October 22, 1985 requesting that the Louisiana Department of Wildlife and Fisheries not lease particular grounds because of the potential liability associated with the operation of the controlled freshwater introduction. I can assure you this Department has been involved with freshwater diversion projects for some five directors prior to myself, going back to the Olga project. As you pointed out, we have been made aware of liabilities associated with the controlled freshwater diversion projects before, particularly the Bayou Lamoque structure. This was in 1972, and at the time we discussed the matter with the individual and he decided it was more profitable to maintain the lease than to receive a small settlement. However, at that time we became aware of the problem.

In your letter of October 22, you bring up several points that could potentially cause problems. Towards the end of not leasing — what happens when the structure produces oysters in the area; who would be legally able to take the oysters. Under the present law, virtually no one. Secondly, who will determine the "adversely affected area"?

Dr. Guey, I truly feel after extensive consultation with my legal and scientific staffs that for some years now a subservient clause placed on all new leases in this area should remove this liability. This would be on all leases since they are proposed to be built statewide, and even though flow-through Caernarvon is some 15 years away, it is timely to consider it now. The problem I am running into is the use of the exact wording which should not prevent the oyster leasee from his legal right to obtain damage claims. Our legal counsel and staff has been working on the wording and it will be forthcoming. This will be a statement in the lease document allowing the state to operate the structure without being liable for oyster mortality. Those potential oyster leasees who feel this will present problems should not lease those areas.

Dr. Stuart Guey, Jr. November 18, 1985 Page two

Thank you very much for your interest in this matter, and if I can be of any further assistance, please contact me.

Sincerely,

Burton Angelle

Secretary

JBA:HES:scn

cc: Senator Samuel Nunez

Representative Frank Patti

Department of Natural Resources, Dr. Chip Groat

Mr. William S. "Corky" Perret

Mr. Harry Schafer

Mr. Ron Dugas

Mr. Mark Chatry

Mr. Al Anderson

Mr. Don Puckett



J BURTON ANGELLE, SR

DEPARTMENT OF WILDLIFE AND FISHERIES POST OFFICE BOX 18:270 BATON ROUGE, LA 70095

EDWIN W EDWARDS

DATE: OCTOBER 30, 1985

MEHORANDUH

TO: CORKY PERRET, ASST. SEC.

FROM: J. BURTON ANGELLE, SECRETARY

Please look into this matter and prepare a written response for my signature within 72 hours. Include two copies of your reply for filing in this office. Thank you.

RECEIVED

LA DEPARTMENT OF
WILDLIFE & PISHERIES

DCT 35 1985

ASSISTANT SECRETARY
OFFICE OF COASTAL
MARINE RESOURCES

Plaquemines Parish Commission Council

COMMISSIONER OF HEALTH

106 Avenue "G" BELLE CHASSE, LOUISIANA 70037

DR. STUART J. GUEY, JR. COMMISSIONER

Phone: 392-6690

October 22, 1985

Burton Angelle, Secretary Louisiana Department of Wildlife & Fisheries P.O. Box 15570 Baton Rouge, La. 70895



Dear Mr. Angelle:

I am requesting that you consider not leasing any additional oyster grounds located in Plaquemines and St. Bernard parishes that will be adversely affected by the proposed Caernarvon Freshwater Diversion project. The continued leasing of oyster grounds in areas where the freshwater diversion will have adverse effects may eventually lead to mitigating activities on behalf of the lessee against the lessor. If you are unable to curtail the leasing of future oyster grounds in the Caernarvon Outfall area, then it should be made known to the lessee that this area may be adversely impacted as a result of the proposed Caernarvon Freshwater Diversion project and that neither the State nor the Parish should be held responsible for the mortality of the oysters on those leased beds.

When reviewing the request for leases to be renewed in this area we request, if possible, that a statement be made so as to eliminate liability of the State and the Parishes which may result from future operation of the structure.

Please consider this request and advise us as to any action the Louisiana Department of Wildlife & Fisheries intends to take.

Sincerely.

Dr. Stuart/J. Guey, Jr.

Commissioner of Health

SJG/dbs

3 3

4

cc: Representative Frank Patti Senator Sammy Nunez



United States Department of the Interior

POST OFFICE BOX 4305 103 EAST CYPRESS STREET LAFAYETTE, LOUISIANA 70502

October 25, 1985

Mr. Frederic M. Chatry Chief, Engineering Division Project Engineering Section New Orleans District, Corps of Engineers P.O. Box 60267 New Orleans, Louisiana 70160

Dear Mr. Chatry:

The Fish and Wildlife Service has reviewed the draft reports for the biological and hydrological, water, and sediment quality monitoring programs for the freshwater diversion structure at Caernarvon, Louisiana, as requested by your September 26, 1985 letter. This letter is submitted on a planning-aid basis.

The environmental concerns relative to the potential effects of freshwater diversion are adequately addressed by the numerous elements comprising the draft monitoring programs. However, we do not believe that additional modeling is needed for development of operational procedures for the diversion structure. Therefore, we do not consider development of such a model to be a necessary element of the proposed monitoring program.

We appreciate the opportunity to assist in the development of a comprehensive monitoring program for this freshwater diversion feature. We plan to continue our coordination of the biological monitoring program with NOD and Louisiana Department of Wildlife and Fisheries personnel.

Sincerely yours,

David W. Fruge Field Supervisor

IA Dept. of Wildlife and Fisheries, Baton Rouge, IA IA Dept. of Natural Resources (CMD), Baton Rouge, IA FWS, Atlanta, GA (AHR/ES) NMFS, Galveston, TX

Macsh rewriting plan

that diverting some Mississippi River water into the

On a recent trip, he and others saw thousands of ducks that created what looked like paint smears across the silvery surface of ponds in the marsh being replenished with fresh water from the Caernarvon Freshwater Diversion noar Braithwaite.

There's a lot of "dack potato," a freshwater marsh plant that ducks est after flying south for the winter to Louisiana, hersaid.

The waterfowl has drastically improved because you have feed," he said. The alligator population has also boomed, he said. The only thing you don't see is the autria. The aligators are taking control of that," Livaudais said.

Liundais is one of several people who say they see positive things in the marsh where freshwater diversion is occurring.

But there are some who see destruction, not resurrection.
State Sen. Lynn Dean, R-Braithwaite, says he thinks the diversion has done nothing but push oyster and crab fisherman ferther away from home. He said he thinks a virus outbreak that hit oyster beds earlier this year is tied to pollution coming into the Breton Sound Estuary from the diversion project.

St. Bernard Parish's sewage treatment plant discharges into the river just above Coernarvon and on some rainy days, the system is bypassed because too much water flows into it, he said. Dean is the former St. Bernard Parish president.

The Department of Natural Resources says the federal Food and Drug Administration studied the virus problem and concluded the outbreak was from local sources and not "distant sources" such as the diversion project.

Price Jones, a Plaquemines Parish employee who runs the structure, said people who don't see the interovement in the

and concluded the outbreak was from local sources and not "decent sources" such as the diversion project.

Print Jones, a Plaquemines Parish employee who runs the structure, said people who don't see the improvement in the marsh "don't want in sec.it. ... People, I think are afraid of

And there apparently has been a lot of change since the five 15-foot-square culverts were opened first in 1991. The culverts run from the river under the levee and La. 39 into a

casal that opens to the top of the estuary.

At peak flow, the structure can move 8,000 cubic feet of water, per second into the marsh. With it comes allt and nutrigents that help build land and encourage freshwater plantsgrowth. Much of the marsh's soil comes from plant growth decomposition. The freshwater also pushes the salt-weignfarther toward Breton Sound.

The Department of Natural Resources said surveys show that the addition of fresh water has increased the waterfree bass, alligators, nutrie, and freshwater vegetation. In nine sample sites, the diversion has created 456 acres of

Bill Good, head of the DNR's Coastal Restoration Division, said-officials are still not sure how the marsh has been built. It is probably a combination of silt coming in with the water and autrients that helped make soil more conducive to freelwater plant growth, he said.

Researchers from LSU and University of Southwestern Louisiana are beginning a study to figure out how it all weeks, Good said.

That's just one of many unknowns that must be dealt with in the concept of diversion.

Good said the hydrology of Caernarvon and other largescale diversions "is so complicated you cannot model it." One can predict what might happen but not with much certainty:

The advisory board that determines how the structure is operated is considering changing procedures.

Originally run to hit a target salinity level, officials now think that is unfeasible and have rewritten plans to operate it based on flow and needs of the ecosystem, said Program Manager Chuck Villarrubia of DNR.

One person who agrees with Villarrubia is Oniel Malbrough, president of Coastal Engineering and Environmental Consultants Inc. His firm advises Jefferson Parish and other parishes on coastal issues. Right now, Jefferson is trying to determine the impact of a proposed diversion at Myrtle Grove, on the west side of the river

down into Barataria Bay.

The experience at Caernaryon tells Malbrough that officials will "have to build it and then manage it."

As more diversion projects are considered, DNR officials will-find out if the public agrees with that build-it-thea-manage-it philosophy.

Mike Dunne covers the environment for The Advocate.



or the second

DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT, CORPS OF ENGINEERS P.O. 803 60267

NEW ORLEANS, LOUISIANA 70160

SEP 2 6 1935

Engineering Division Projects Engineering Section

RECEIVED

Mr. Dave Chambers
Louisiana Department of Natural
Resources
Louisiana Geological Survey
2133 Silverside Drive
Baton Rouge, LA 70808

DEPT OF NATURAL HESOURCES COASTAL MANAGEMENT DIVISION

Dear Mr. Chambers:

This letter is to bring you up to date on the status of the monitoring program for the Caernarvon Freshwater Diversion Project, and to transmit copies of draft reports for the biological and hydrological, water, and sediment quality monitoring programs.

At the workshop held from October 9-11, 1984, on Grand Terre Island, it was determined that the most efficient way to work out detailed designs for the monitoring programs would be to use smaller subgroups composed primarily of individuals from the larger working group. We have incorporated input from both the large workshop and the numerous smaller meetings in developing the overall monitoring program.

It is requested that you review the enclosed reports and provide your comments by October 25, 1985. If deemed necessary, additional meetings will be held to further discuss the monitoring program.

It has been a pleasure working with you and we look forward to continued cooperation on development of the final monitoring program.

If you have any further questions, please do not hesitate to call.

Sincerely,

Prederic M. Chatry

Chief, Engineering Division



DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT, CORPS OF ENGINEERS P.O. 804 60267

NEW GRLEANS LOUISIANA 70160

September 14,1984

Engineering Division Projects Engineering Section

Dear

Thank you for your recent attendance at the monitoring program development meeting for the Mississippi Delta Region Project (Caernarvon Freshwater Diversion Structure). The meeting was a good start towards the development of the monitoring program, and the contribution of your time and expertise towards making the meeting and the program a success is appreciated.

One of the questions brought up at the meeting was how the funding of the program would be handled. Total project costs including engineering and design and construction will be split on a 75% Federal-25% non-Federal basis. The State of Louisiana is currently the non-Federal sponsor for this project and will be responsible for 25% of the cost. Costs for the 3-year pre-and the 4-year post-construction monitoring are included under engineering and design and as such are subject to the 75-25 split. Various state and local agencies already have monitoring programs in the Breton Sound area and some of these programs are required by law. During future workshops the pre-construction monitoring programs will be designed and will determine what will be monitored and where. Existing stations and methods used by the state and local agencies will be used as much as practicable. If additional work is determined necessary for our programs at an existing location, or if local or state agencies install new stations in the area. this additional work will be credited toward the State's 25% obligation. Work that is done by these agencies as

part of their normal data gathering programs will not be eligible for credit. No transfer of Pederal Punds to State and Local agencies will occur.

We have enclosed for your information a copy of the Memorandum of Meeting and accompanying enclosures.

We look forward to seeing you at the first workshop to be held at the Lyle St. Amant Marine Laboratory on Grand Terre Island on October 9-11, 1984. If we can be of any further assistance, please do not hesitate to let us know.

Sincerely.

Prederic M. Chatry

Chief, Engineering Division

Enclosure

SUBJECT: Monitoring Program Development Meeting
Mississippi Delta Region Project
(Caernaryon Freshwater Diversion)

The meeting to discuss development of the monitoring program for the Caernaryon Freshwater Diversion Project was convened at 10:00 a.m. on August 7, 1984. The meeting was held in Conference Room 1 at the New Orleans District (NOD). It was well-attended and basically followed the agenda provided in enclosure 1. The working group for development of the monitoring program is provided in enclosure 2. Most of the individuals on the group or their representative(s) attended the meeting. A list of meeting attendees is provided in enclosure 3. Mr. Fred Chatry, Chief of the Engineering Division at NOD, delivered the welcoming remarks. He pointed out that this project is actually under design and moving to construction. He stated that this project had its genesis as a specific proposal in the 1950's, but was not authorized by Congress until 1965. Even though the project has always been strongly supported by Federal and state biologists, we were unable to obtain the non-Federal sponsorship required by Congress. We now have support from the State of Louisians and are optimistic that construction will begin in November 1986. Mr. Chatry emphasized that because Caernaryon will be the first of our freshwater diversion projects to come to fruition, it is essential that it be monitored and operated to best advantage so that the full potential of freshwater diversions in preserving and enhancing estuarine areas be demonstrated. He then turned the meeting over to Mr. Carl Anderson, the overall project manager.

Mr. Anderson asked each attendee to state their name, the organization they represent, and what they foresee as their primary role in the development and implementation of the monitoring program. Mr. Anderson then provided an overview of the history of the project, a general project description, and the current status of the project.

Mr. Anderson then introduced Mr. James Warren from NOD's Hydraulics and dydrology Section who gave a general overview of the hydrologic and water quality monitoring programs.

Mr. Warren suggested that an objective of collecting hydrologic data is to monitor principal factors that determine water movements and the present salinity regime of the braton Sound Estuary. It was noted that concurrent measurements of tide fluctuations, precipitation, significant freshwater discharges, air temperature, wind and current velocities, and salinity at critical locations will be required to develop predictive and operational models. Mr. Warren suggested that most of the desired hydrologic data might be most efficiently obtained using in-situ data recording monitors.

Mr. Warren noted that an objective of the water and sediment quality monitoring program is to define mean levels and variability (i.e. probability distributions) of selected parameters before initiating freshwater diversion. It was suggested that data generated by water and sediment quality monitoring would form a base condition to which post-freshwater diversion parameter levels could be compared. Generalized lists of water and sediment quality parameters that could be monitored were presented.

Mr. Warren stressed the need to have one data management system that would allow easy access and manipulation and analysis of data generated by the various monitoring agencies. Use of the Environmental Protection Agency's STORET system was suggested. Finally, Mr. warren noted the desirability of standardizing sample collection and analysis procedures.

Mr. Warren then turned the meeting over to Mr. Dennis Chew from MDD's Environmental Quality Section to provide a general overview of the biological monitoring program. Mr. Chew stated that we wanted to take advantage, to the maximum extent practicable, of existing monitoring programs carried out by Federal, state, and local entities and to utilize the expertise of individuals familiar with the Breton Sound Basin and/or appropriate monitoring techniques to develop the program.

He said that the purpose of the monitoring program is to establish baseline conditions in order to assess effects of the diversion on biological resources including vegetation, furbearers, alligators, waterfowl, finfish, shellfish, and other important biota. The reasons for the program are to determine if the project is actually doing what we have predicted; to help guide operation of the structure including timing, magnitude, and duration of flow; and to insure that the diversion is not contributing to unacceptable levels of contaginants in vegetation, fish, wildlife, and ultimately humans. Mr. Chew then provided some general guidance on the approach to monitoring the various biological resources. Information in Dr. William L. Klesch's October 5. 1983, Meso for Record entitled "Conceptual Monitoring Activities for Freshwater Diversions within the Coastal Areas of Louisiana and Mississipp!" was used in part in the presentation (enclosure 4). Gr. Chew reiterated the importance of sound data management practices and standardization of sampling and analytical techniques. He also emphasized that the monitoring program concentrate on parameters that would yield definitive information on project effects and not just provide a lot of disjunct, meaningless data. Mr. they pointed out that NOD envisions the actual technical development of the monitoring programs would be carried out through a series of workshops.

following the presentations by SOD personnel, each participant was requested to consent on the overall schemes as presented and how they could assist in refinement and implementation of the program. Hr. Chew and Mr. Warren served as facilitators to field and record comments and questions.

Mr. Walter Morse from the Louisiana Department of Health and Human Resources (DHRR) said that they had data on fecal coliforns and some other parameters in the Breton Sound area and that the data is available. He indicated that they would continue to wonitor the area and would work with NOD in the wonitoring endeavor.

Mr. John Musser of the U. S. Geological Survey (USUS) said they would work with NOD and emphasized the importance of monitoring the

water quality of the river adjacent to the structure. USGS has 10 to 11 years of data from stations at Violet and Belle Chasse. Their data is in the STORET data base.

Mr. Gerald Bodin of the U. S. Fish and Wildlife Service (USFWS) said they would continue to work with NOD in the development of the program. The USFWS has some highly rated contaminant laboratories and should be able to conduct some tissue analyses.

Mr. dark Charry of the Louisiana Department of Wildlife and Fisheries (LDWF) said their Seafood Division is in a position and has a desire to play the leading role in monitoring of the seafood resources that LDWF is charged with managing. LDWF is in the process of developing a data management system and putting computers on line.

Messrs. Roy Giardina and Clarence Louvet, Jr., biologists from LDWF Area 2 (Breton Sound), indicated that biological, hydrological, and water quality data exist dating back to the early 1960's. This data varies considerably in degree of accessability.

Or. Ray Varnell of Plaquesines Parish stated that the parish has several years of continuous data, much of it collected on a weekly basis. Some of this information has already been obtained by ... OD and all of their pace is available.

Mr. Dave Roberts from Coastal Environments, Inc. (Col) indicated that they have gathered a substantial abount of data under a study conducted for Plaquemines Parish in order to design an outfall management plan for the Caernaryon Project. Based on his experience in the basin, Mr. Roberts emphasized the importance of sonitoring wind speed and direction. He also said that improved methods are needed for establishing elevations in estuarine areas.

Messrs. Dugan Sabins and Michael Schurtz from the Louisiana
Department of Environmental quality (DEQ) said they have up to 10 years
of good data on the Mississippi River. setween St. Francisville and

Pointe-a-la-Hache, DEQ has six stations monitored for trace metals on a monthly basis. They have recently added 12 stations for organics and other parameters. Most of the data is in STURET. DEQ has stations in Little Lake and Bay Gardene which have been monitored for the last 5 years. They will cooperate in the program as much as possible.

Mr. Chuck Killebrew from LOWF suggested that everyone put together a summary of their monitoring programs for use at future meetings or workshops. This matter is discussed in more detail later in this memorandum. Mr. Killebrew requested some information on funding for development and implementation of the monitoring program. Further information on this subject is included in the transmittal letter accompanying this memorandum.

Dr. James Geaghan of the LSU Department of Experimental Statistics said ne would provide statistical guidance. He presently does statistical work for LDWF and can provide guidance on the monitoring program through that agency.

Mr. Barney Earrett of the LDWF suggested that we establish definitive criteria and objectives for the nonituring program to insure we do not monitor a vast array of items that would give us no concrete answers.

Experiment Station (WES) acknowledged that contaminants are certainly a valid concern, but not an insurmountable problem. We will be diverting water from a high energy to low energy system and old har could potentially become an area of high pollutant concentrations. However, many techniques are available to sonitor effects of contaminants including tissue analyses and plant and animal bioassays. Certain types of laboratory studies could be used to marrow down field domitoring requirements. Dr. Engler noted that the influx of nutrients into the basin via the diversion would be beneficial as marshes are generally nutrient limited.

Allan Ensminger, Chief of the Fur and Refuges Division for LDWF, said that they currently wonitor vegetation, furbearers, alligators, and waterfowl. Due to the benefits of the diversion to these resources, it would be essential to continue such monitoring and to increase the monitoring effort in some cases, particularly for waterfowl.

Dr. Tom Pullen from the army Corps of Engineers Lower dississippi Valley Division (LMVD) noted that low-altitude infrared photography may prove to be a useful tool in assessing vegetation changes in the basin.

Following the statements from the meeting participants, Mr. Chew indicated that NOD proposed to actually develop the monitoring program through a series of technical workshops. It was generally agreed that this would be a logical approach. The dates for the first workshop are October 9-11, 1984. LDWF has offered the use of the Lyle St. Amant Marine Laboratory on Grand Terre Island for this first workshop. As suggested by Mr. Chuck Killebrew, participants were asked to prepare informational packets concerning their wonitoring programs, and nave them available at the workshop. The packets should contain specific information concerning hydrologic data collection, water and sediment quality data, tissue analyses, and biological sampling for the breton Sound Estuary. The packet should include, but not be limited to, the following:

- 1. agency, division, section, group, etc.
- Monitoring program designation and type of monitoring conducted.
- For each parameter normally monitored under this program please list:
 - a. parameter

- sampling frequency and type of sample, e.g. surface composite, depth-integrated composite, shrimp, oysters, benthic sample, etc.
- c. analytical method, normal detection limit, documentation source for laboratory analyses or instrument make, model, and specifications for field observations, gear type, etc. (see Table 1 for examples)
- 4. How are the data generated by the monitoring program?
 - a. If the data are put into a computer system, please list system make and model.
 - b. Would your agency be willing to generate a tape record of several years of observations to be input into a central data management system?
 - c. If the data are tabulated and stored, please provide a copy of a typical tabulation sheet.
- 5. List currently active sampling/monitoring locations in the Breton Sound Estuary (Plaquemines and St. Bernard Parishes). Please provide maps and a short descriptive paragraph of each sampling location including approximate latitude and longitude coordinates and any other information that would help field personnel pinpoint the sampling site.

NOD thanked the group for their participation and cooperative spirit. The seeting was adjourned at approximately 1:00 p.m.

CARL E. ANDERSON

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MEMORANDUM OF MEETING

SUBJECT: Monitoring Program Workshop Mississippi Delta Region Project (Caernaryon Freshwater Diversion)

The first workshop to discuss development of the monitoring program for the Caernaryon Freshwater Diversion Project was held on October 9-11. 1984, at the Lyle St. Amant Marine Laboratory on Grand Terre Island, Louisiana. The facility was made available to the group by the Louisiana Department of Wildlife and Fisheries. The hospitality and assistance extended by the Laboratory staff was greatly appreciated. The purpose of the meeting was to assemble a group of multi-disciplined individuals representing numerous federal, state, and local agencies and other interested groups to gather information on existing biological. hydrological, and water quality monitoring programs. Based on this information, the group would be able to identify data gaps and recommend sampling programs to collect the additional required information. There was a great deal of interest in the workshop and must of the agencies on the working group were represented. Enclosure : is an updated list of the individuals and agencies comprising the working group with current mailing addresses, telephone numbers, and their primary role in development of the program. Enclosure 2 is a list of workshop participants. Some of the people were not able to attend the workshop for the entire 3-jay session and the number of participants at any given time varied from about 20-30 individuals. The workshop was moderated by Mr. Dennis Chew and followed an informal and flexible agenda to provide an efficient forum for exchange of information and ideas among participants. The following is an overview of what transpired at the workshop. More detailed information on existing sampling efforts and additional monitoring needs are being generated by various agencies and will be forwarded to the working group as they are developed.

The workshop was convened after lunch on Tuesday, October 9. It began with a brief overview of the status of the project followed by a summary of results of the August 7, 1984, monitoring meeting which was held at the New Orleans District (NOD). At that meeting, NOD personnel had requested that the various agencies having sampling programs in the Breton Sound Basin prepare informational packets concerning their respective programs. In the September 14, 1984, Memorandum of Meeting, we provided examples for presenting the information and requested that it be ready for presentation at this workshop. Mr. Chew asked the agency representatives to present an overview of their sampling programs to the entire working group so everyone would have an idea of the overall extent of sampling efforts in the study area. Most agencies had copies of their informational packets and distributed them to the participants. Agencies making presentations on Tuesday afternoon included the Louisiana Department of Wildlife and Fisheries (LDWF), Plaquemines Parish Environmental Services Laboratory (PPESL), U. S. Fish and Wildlife Service (USFWS), U. S. Geological Survey (USGS), and National Marine Fisheries Service (NMFS).

Messrs. Mark Chatry and Robert Ancelet from LDUF presented information on their monitoring of fishery resources including systems, shrimp, and other finfish and shellfish species. Their sampling gear includes travis, plankton nets, pound nets, gill nets, hook and line, meter square sampling. Butler plates, and hand dredges. LDWF also conducts boarding surveys of system harvesting vessels on the state seed grounds. A great deal of their data dates back to the late 1960's and early 1970's. In addition to sampling aquatic organisms, LDWF collects a variety of water quality, hydrological, and climatological data at many of the sampling stations. Much of their data is now stored on magnetic tapes and they plan to have all of their data computerized in the near future.

Dr. Ray Varnell presented on overview of the PPESL's sampling programs which include a variety of biological, water quality, and hydrological parameters. They monitor water quality at about 20 stations in the Breton Sound area. A number of these stations are inland of the stations of other

resource agencies and provide information on the upper basin. Their program includes analyses of volatile priority pollutants, pesticides, and heavy metals. Most of their sampling has been conducted over the last 4-5 years. The parish is playing a very active role in the development of the program.

Messrs. Gerry Bodin and Wilfred Kucera from the USFWS discussed the contaminant monitoring conducted by their agency. USFWS, under their National Contaminant Biomonitoring Program, collects fish samples in the Mississippi River at Luling and analyzes contaminant levels in fish tissue. The purpose of the program is to monitor contaminant trends over a long-term period. Sampling began in 1969 and has continued basically on an annual basis to the present.

Messrs. Duane Everett and Charles Demas of the USGS discussed their sampling programs. The USGS, in cooperation with the Corps and Office of Public Works, presently collects water and sediment samples from three sites on the Mississippi River in the vicinity of New Orleans. The three sites are Luling, New Orleans, and Belle Chasse. The period of record for these sites are: Luling, 1973 to present; New Orleans, 1967 to present; and Belle Chasse, 1978 to present. Samples are analyzed for an extensive list of physical and chemical parameters. The USGS presently does not collect samples in the Breton Sound area. However, they have a large amount of historical data for the Mississippi River-Gulf Outlet and Baptiste Collette areas.

Ms. Peggy Keney informed the group that NMFS collects commercial fisheries landings data for the area. However, based on our needs, there are some problems with the data because landings for the Breton Sound and Chandeleur Sound areas are lumped together. With the present method, it is not possible to determine landings just from Breton Sound.

After the agency presentations, the participants divided into two subgroups to discuss existing sampling programs in more detail, identify

data gaps, and recommend additional sampling efforts as deemed necessary to adequately monitor effects of the diversion. Mr. Chew led the subgroup on biological sampling and Mr. Warren led the subgroup on water quality/ hydrology.

The biological subgroup discussed sampling of important resources including oysters, shrimp, blue crab, menhaden, groundfish, red drum, and spotted seatrout. The group determined that LDWF has adequate sampling programs to monitor fishery resources and manage fisheries under existing conditions. However, the proposed diversion would cause changes in distribution and abundance of aquatic organisms and, in order to document project effects, sampling efforts would be required in areas which presently receive little attention. Increased monitoring would be required in the upper basin to document changes and potential adverse impacts, and some monitoring would be required gulfward of existing stations to determine effects of salinity changes in the area.

LDWF currently monitors oyster production on the state-managed areas that produce significant quantities of oysters. They do not normally sample oysters on private leases located inland of the public seed grounds. nor do they routinely monitor production seaward of currently productive areas. The subgroup felt it was very important to document project impacts on oysters in these areas and discussed sampling efforts to accomplish this goal. They suggested that trays of oysters could be placed along transects in the mid to upper basin to monitor spat set, growth, and survival rates. Data from this sampling could be used to establish mortality lines and document any adverse impacts caused by overfreshening. Fourteen stations were tentatively selected. It was also recommended that additional meter square and Butler plate samples be taken on the public oyster grounds to monitor a broader area to assess oyster density, size, and spat set. This would help to determine the extent to which the project is affecting production of systems gulfward of current system producing areas. Boarding surveys of oyster vessels would also be increased.

It was determined that additional sampling would be required to monitor impacts on shrimp resources as a result of the diversion. LDWF currently conducts shrimp sampling to manage the fishery under existing conditions in the basin. An expanded shrimp sampling program would be needed to assess project impacts. It was suggested that several 6- and 16-foot trawl stations be established in the mid to upper basin and gulfward of areas currently sampled. Tentative station locations were selected.

With regard to blue crabs, menhaden, groundfish, and other finfish and shellfish species, they would also be monitored at the travl stations established for shrimp. These other species are currently identified, weighed, and measured at most LDWF sampling stations.

Red drum, spotted seatrout, and other finfish species are currently monitored through creel surveys. These surveys, as well as other sampling efforts, are being expanded by the recently established Finfish Section of LDWF. Data collected by this section will provide useful information on numerous species of commercial and recreational importance. Mr. John Roussel from LDWF has been added to the working group to represent the Finfish Section.

The water quality/hydrology subgroup discussed existing monitoring programs and their adequacy as related to documentation of project impacts. Since reduction of salinities is the primary purpose of the project, the subgroup agreed that salinity should be the most important parameter to monitor in the basin. The group discussed acquisition of two distinct types of data, i.e., data obtained using in situ data gathering packages and data obtained from laboratory analyses of samples collected in the field. Generally, data derived using in situ monitors would consist of climatological, hydrological, and physical water quality parameters. This information would be used primarily to develop a regression model to guide operation of the structure. Data derived from laboratory analyses would consist principally of measurements of water column, bottom sediment, and plant and animal tissue contaminants.

Members of the subgroup discussed in more detail the sampling programs which they had summarized for the entire group. Dr. Varnell from Plaquemines Parish stated that their sampling efforts, as well as data provided by Coastal Environments, Inc., indicate the area is very homogenous and that few water quality monitoring stations would be necessary. However, most others in the subgroup felt that even if the area is fairly homogenous now, it would not be so predictable once the diversion is initiated. Mr. Kenneth Fox, representing the oyster fishermen in the area, expressed concern over increased levels of fecal coliform bacteria. Mr. Kucera discussed the results of the USFWS monitoring at Luling, Dr. Varnell discussed the results of monitoring conducted by Plaquemines Parish, and Mr. Everett discussed the results of the USGS monthly water quality sampling in the Mississippi River. It appears that most of these sampling results reveal very low levels of contaminants in the water. Generally, members of the subgroup expressed little concern about measurements of metals, nutrients, pesticides, and other parameters in the water column. However, due to the public concern which has been expressed throughout development of the project, it was agreed that limited monitoring of water for contaminants is essential. It was suggested that a water quality monitoring station be established upstream from the diversion structure to detect contaminants, thus allowing the structure to be closed during undesirable conditions. However, continuous monitoring and rapid analysis of the extensive list of contaminants which could be found in the river is not practical. Therefore, it was decided that closure of the structure would have to rely on the existing early warning program used for municipal water supply systems.

Since the list of contaminants found in the water column is very extensive, their levels are generally undetectable or very low, and it is difficult to predict what impact, if any, these levels will have on any living organisms, it was suggested that scans for priority organic pollutants and metals would be a logical approach. Further analyses would be conducted in the event significant levels of contaminants were detected

in the scan. Members of the subgroup decided that water column contaminants be monitored once a month in the pre- and post-monitoring programs.

It was agreed that analysis of sediments, vegetation, and fish and wildlife contaminant levels would provide more useful information concerning contaminant effects than merely analyzing water samples. Dr. Bobby Folsom from WES explained the plant bioassay techniques he has been using to assess uptake of metals by marsh vegetation. He stated that these, as well as selected animal bioassays, would yield valuable information on potential contaminant uptake by organisms in the basin. However, it was noted that most contaminants in the diverted water would be attached to clay particles and would soon settle out. Most metals settling in the marsh would be in a reduced state and largely unavailable to the biota. Nonetheless, it was decided that consideration would be given to employing some of these bioassay techniques as part of the monitoring program.

Following the subgroup meetings, the entire working group briefly discussed what had transpired in the individual sessions. The workshop was adjourned at 5:00 p.m.

The workshop reconvened at 8:00 a.m. on Wednesday morning. Some of the other members of the working group arrived early in the morning and those having information concerning additional existing monitoring programs were asked to address the overall working group.

Mr. Walter Morse of the Louisiana Department of Health and Human Resources (LDHHR) presented information concerning their monitoring program, particularly that related to shellfish harvesting areas. LDHHR has about 70 stations in the study area and samples are generally taken monthly. Samples are analyzed for fecal coliform bacteria and occasionally other microbes. Salinity readings are also taken from these stations. In

addition, LDHHR also conducts periodic tissue analyses of various fishery resources.

Mr. Greg Linscombe of LDWF's Fur and Refuge Division briefed the group on their surveys of vegetation and various wildlife resources. They currently fly a series of transects in the Breton Sound area to assess marsh types and marsh condition. They also conduct periodic aerial surveys of muskrat and alligator populations along the same transects. Several transects would have to be added to fully assess impacts of the diversion. It is estimated that about \$10,000 per year would be required for the additional surveys. LOWF also conducts waterfowl surveys in the area. It is likely that the waterfowl survey effort in the area would also require some expansion to properly assess project impacts. This will be discussed further with one of the Department's waterfowl specialists.

Mr. Dave Roberts from Coastal Environments, Inc., (CEI) then explained the studies they conducted for Plaquemines Parish in the area. The Parish intends to implement an outfall management plan to maximize benefits to be realized from the diversion. In order to devise the management scheme, it was necessary for CEI to conduct some hydrological surveys of the area and model water budgets for the basin. The basic intent of the outfall plan is to spread the flow at the top of the basin to disperse the flow and increase retention time in order to maximize benefits to the marsh while still achieving the other project objectives.

Following the presentations, the group began discussing selection of key locations for placement of a number of in situ data gathering packages in the basin. Data gathered by these instrumentation packages would be crucial to development of an operational model for the structure. A rather lengthy discussion was held concerning whether or not the hydrology of the area was understood well enough to wisely choose station locations without further studies. It was ultimately agreed that general knowledge of the area's hydrology gained by CEI and LDWF during field investigations was sufficient to allow tentative selection of station locations. Monitoring

the success of project objectives and the presence of platforms or other foundations to facilitate installation of the instrumentation packages played a role in the selection. A total of seven stations was selected, although several more would be desirable. Those stations are shown in Enclosure 3. Six of the stations would be established at new locations. One of the stations (#5) would be located at the existing LDWF camp at Bay Gardene. Cost was a major consideration in selecting the number of stations. The instrument packages alone could cost about \$20,000 each. If a platform has to be constructed, the cost would be much greater. It was acknowledged that some modification of station locations may be required in the future. Serious consideration was given to placing a station in St. Bernard Parish. Although this area would not be directly affected by the diversion, several people in the group felt the area would be indirectly affected and the impact should be assessed. No final decision was made concerning this matter.

Once the station locations had been selected, discussions began concerning what parameters should be monitored. An extensive list of climatological, hydrological, and physical water parameters was put on the blackboard. The list was screened and prioritized by the entire working group. Efforts were concentrated on selecting parameters which would be used to drive the operational model as well as assess impacts of the project. The original list was tentatively narrowed to nine parameters ranked as follows:

- conductivity @ 25°C
- 2. water temperature
- 3. water level
- 4. current velocity
- 5. rainfall

- wind velocity
- 7. air temperature
- 8. relative humidity
- 9. turbidity

It was agreed that it would not be necessary to monitor all of the chosen parameters at every station. The group tentatively decided to monitor the various parameters as indicated on the next page:

Station Number	Parameter Number			
1	1, 2, 3, 9			
2	1, 2, 3, 9			
3	1, 2, 3			
4	1,2,3			
5	1, 2, 3, 5, 6, 7, 8			
6	1, 2, 3, 4			
7	1, 2, 3, 4			

There was some discussion concerning the feasibility of monitoring turbidity (parameter number 9) with the in situ monitors. The issue is still undecided. It was decided to monitor most parameters at Station 5, since the instrumentation would be located at the LDWF camp. The instruments would be well protected and easily accessible at this location. Dr. Varnell recommended that we contact the National Weather Service (NWS) and ask if they would include this station under their program. If so, it is likely that the NWS would monitor numerous other parameters as well.

Data collected at the seven stations could be integrated with similar data collected at the many stations sampled by the various agencies as described earlier in this memorandum. This data could be used to model and guide operation of the structure. In addition, the hydrological and water quality data could be coupled with information collected through the biological sampling program to assess project impacts and determine causal effects.

The selection of the stations and choice of parameters was a lengthy process and included input from virtually everyone in the group. There was considerable discussion over how the data would be used, how it would interface with data gathered in other sampling programs, and who would actually use the information. This led into discussions concerning data management, including development of field data sheets, data storage, and

computer analysis of the data. Numerous opinions, ideas, and recommendations were brought forth for deliberation by the group. The workshop was adjourned at 5:00 p.m.

On Thursday morning, Mr. Judd Pollard explained the development and status of LDWF's data management system which has been underway for several years. LDWF has a massive amount of information which has been collected over the years. They have been working tediously to computerize this information. They currently have data on the computer for sampling through 1979 and plan to have all of their data on line in the near future. Mr. Pollard's presentation rekindled the data management discussions of the previous day. He explained some of the problems they encountered. He indicated that a data management consultant such as Computer Services Corporation could help overcome some of the problems. Dr. Wiley Kitchens noted that the USFWS has used data management consultants with success. Personnel from LMVD and WES related experiences with data management problems and recommended that serious consideration be given to the idea of using a consultant. The concern of the working group was that data management could pose the most difficult problem in carrying out the extensive monitoring program proposed for the project. No decisions were made concerning the data management issue. Mr. Che- recommended that a task force be assembled to investigate the problem in more detail. The task force would consist primarily of individuals with expertise in data collection, storage, and manipulation and would report to the working group at a future workshop. It was agreed that this would be a logical approach to assess this complex problem.

After completing the data management discussions, we discussed monitoring of contaminants in water, sediments, and plant and animal tissues. This data collection effort would be separate from the data collected by the <u>in situ</u> monitors. Due to concerns over water quality of the River, it was agreed that monitoring changes in contaminant levels as compared to pre-diversion conditions should be an integral part of the overall monitoring program. As discussed previously in this memorandum, it was agreed that monitoring contaminant levels in sediment and plant and

animal tissues would provide more meaningful data on project effects than monitoring of contaminant levels in the water column. However, it was agreed that a limited quantity of water column samples should be taken.

Dr. Bobby Folson from WES explained, in more detail, the plant bioassay techniques used to measure the potential uptake of ten heavy metals including Zn, Cd, Cu, Fe, Mn, As, Hg, Ni, Cr, and Pb. He said that these techniques could be used to document what effects the project would have on heavy metal uptake by plants in the basin. Dr. Folson stated that most contaminants in the diverted water would be attached to sediment and clay particles and would tend to settle out in Big Mar or in the upper marsh. Most metals settling in the marsh would be in a reduced state and not readily available to biota. It was agreed that implementation of the bioassay techniques is worthy of further consideration. One problem is they are rather expensive. It was estimated it would cost about \$60,000. per year to conduct the studies for this project.

No firm decisions concerning contaminant monitoring were made at the meeting. It was decided that a task force be assembled to discuss this issue and report back to the working group at a future meeting.

A number of meeting participants had expressed a need to depart the island by 11:00 a.m. on Thursday. As this time was approaching, Mr. Chew thanked the participants for their interest and cooperation in the project and the development of the monitoring program. Special thanks were directed to the Laboratory staff for their assistance and hospitality.

It was acknowledged that members of the working group need to maintain direct communication during development of the monitoring program and that individuals would be contacted requesting their involvement in various task force meetings. No firm dates were established for the next full-scale workshop. Dr. Varnell suggested that the next workshop be held in the vicinity of Braithwaite in Plaquemines Parish near the Caernarvon site.

It was agreed that this would be an appropriate location. At this time, it appears the next workshop will be held sometime in January 1985. All members of the group will be contacted to confirm exact dates for the workshop.

The meeting was adjourned at 11:00 a.m.

Dennie Chew DENNIS CHEW

MISSISSIPPI DELTA REGION PROJECT CAERNARYON FRESHNATER DIVERSION MONITORING PROGRAM WORKING CROUP

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