

242-3484

COMPLETION REPORT  
 FOR  
 MAINTENANCE/REPAIR  
 FRESHWATER BAYOU SHORELINE  
 STABILIZATION PROJECT (TV-11)  
 AND  
 FRESHWATER BAYOU WETLAND  
 PROTECTION PROJECT (ME-4)

PREPARED FOR:  
 STATE OF LOUISIANA  
 DEPARTMENT OF NATURAL RESOURCES  
 POST OFFICE BOX 639  
 ABBEVILLE, LOUISIANA 70511-0639

PREPARED BY:  
 ACADIAN ENGINEERS  
 & ENVIRONMENTAL CONSULTANTS INC.  
 POST OFFICE BOX 1126  
 EUNICE, LOUISIANA 70535  
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Approved By: James A. Ducote  
 James A. Ducote, PE, PLS

Dated: June, 2002  
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501,655

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AND  
FRESHWATER BAYOU WETLAND  
PROTECTION PROJECT (ME-4)**

**1.0 PRIME CONTRACTOR**

Luhr Brothers, Inc.  
Post Office Box 50  
Columbia, Illinois 62236.

Sub-Office

Luhr Brothers, Inc.  
Post Office Box 7886  
Alexandria, Louisiana 77568-7886  
Phone: 318/487-9263

**2.0 SIGNIFICANT DATES/AMOUNTS**

Description	Date
Contract Award	April 2, 2002
Pre-Construction Conference	March 18, 2002
Notice to Proceed	On or Before April 16, 2002
Commencement Date	March 29, 2002
Date Fixed for Completion	July 15, 2002
Actual Completion Date	April 22, 2002
Original Contract Amount	\$855,000.00
Actual Contract Amount	\$852,636.00

**3.0 SUBCONTRACTOR**

None.

**4.0 ITEMS OF WORK**

Item Number	Items of Work	Final Quantity	Unit Price	Final Amount	% Over or Under
1a	Mob/Demo (ME-4)	Lump Sum	L.S.	\$6,000.00	N/A
2	Stone Dike Repairs				
2a	ME-4	26,500	\$22.80	\$604,200.00	0%
2b	TV-11	9,870	\$22.80	\$225,036.00	-1.3%
1.6	Mob/Demob (TV-11)	Lump Sum	L.S.	\$6,000.00	N/A
3	Stone-Bank Paving				
3a	ME-4	250	\$22.80	\$5,700.00	0%
3b	TV-11	250	\$22.80	\$5,700.00	0%

**5.0 EQUIPMENT**

Spudbarge, L982B  
 Manitowoc Dragline, L12265 (140' Boom)  
 Dirt Bucket, 46305  
 Generator, L10946  
 Skiff, L1338  
 Welder, L1535W  
 Winches, L1218M  
 Spreader Blocks (2)  
 Crewboat, LB93  
 Survey Boat, L555  
 Spudbarge, 1101  
 Office Barge, L407  
 M/V Michael H.  
 M/V Billy Gene

## 7.0 SIGNIFICANT EVENTS - START/FINISH/PROGRESS

The Pre-Construction Conference was held on March 18, 2002 at the Estuarine Habitats and Coastal Fisheries Center located at 646 Cajundome Boulevard in Lafayette, Louisiana. Contractor submitted the required submittals including gradation test results and stated that they would be ready to commence on site work within two (2) weeks. Contractor stated that they planned to work continuously (7 days/week) until completion of work.

The Notice to Proceed was issued for a starting date on or before April 16, 2002. Contractor commenced on-site work on March 29, 2002. Repairs to the dikes commenced at the lower end of ME-4 and proceeded upstream. This was the area of greatest priority. Little protection against wave action scouring the marsh land remained in this area. Repairs were made intermittently between the lower end of ME-4 and Station 100+80. At this time, it was determined that all the low areas on ME-4 could not be repaired without exceeding the available quantity of stone remaining for the project. The Contractor was then instructed to move to the upper end of ME-4 and commence repairs for that location and proceed with repairs in a downstream direction. This was done because of the greater need for protection in the area selected to be repaired. Repairs were made from upper end of ME-4 to Station 32+00. This left the area of ME-4 between Station 32+00 and Station 100+80 unrepaired. However, a high embankment with a tree line exists in this area which affords the marsh protection in this reach. A total twenty-six thousand, five hundred (26,500) tons of dike repair stone and two hundred and fifty (250) tons of bank repair stone were used to repair fifteen thousand, two hundred and sixty-three (15,263) linear feet of Wetland Protection (ME-4).

Contractor completed placing stone on ME-4 on April 16, 2002 and began repair work on TV-11 on same day. Repairs commenced on the upstream end of TV-11 and proceeded downstream. The stone dike had deteriorated considerably since the time of initial inspection and topography survey, and complete repair would require several times more than the Contract amount available for repairs to TV-11. Therefore, only the most

severely deteriorated sections were selected for repairs. A total of nine thousand, eight hundred and seventy (9,870) tons of dike stone and two hundred and fifty (250) tons of bank repair stone were used to repair four thousand, four hundred and twenty-three (4,423) linear feet of shoreline stabilization (TV-11). Stone placements on TV-11 were completed on April 22, 2002. A tabulation of the station numbers of areas repaired and tonnage placed is shown on Sheet No. 2 of the As-built Contract drawings. A total of thirty six thousand, eight hundred and seventy (36,870) tons of stone (TV-11 and ME-4) was used to repair nineteen thousand, six hundred and eighty-six (19,686) linear feet of shoreline bank protection and dike.

A Manitowoc 4600 Dragline with one hundred forty (140) foot of boom was used to place the stone from the supply barge. With the exception of a short period of time when extremely low tides were encountered, the Contractor was able to position the Spudbarge and fully loaded supply barge close enough to dike to be able to place stone for repairs. When the extremely low tides were encountered, full loads were lighten by placing stone onto empty barges.

#### **8.0 MODIFICATIONS AND CHANGES**

There were no modifications or Change Orders made on this project.

#### **9.0 UTILITY CROSSINGS**

Facility owners were notified prior to work in their area. The Vermilion Corporation was notified about a leak in their line (vicinity Station 40+00 on ME-4). Line was repaired and placed back on channel bottom. No cover exists over their lines.

## 10.0 STONE GRADATION

Stone used on the project had the following gradation:

Stone Wgt. In Lbs.	Percent Finer by Weight
1,000 - 400	100
430 - 200	50
210 - 60	15

## 11.0 QUALITY CONTROL

Quality control at the job site was administered by Mr. Billy Topper. The Contractor's construction performance and Quality Control were highly satisfactory.

## 12.0 QUALITY ASSURANCE

Quality Assurance was administered by Mr. James Ducote, P.E., P.L.S. and Mr. Raymond Plauche of Acadian Engineers & Environmental Consultants Inc. (Acadian). The three-phase inspection system was stressed and followed throughout the Contract period.

## 13.0 ACCIDENTS/SAFETY

The Contractor provided a Safety Plan which was utilized at the job site. Daily inspections towards safety were conducted by QC and QA personnel daily. There were no accidents or loss time injuries on the project. A total of approximately one thousand, six hundred (1,600) man hours were expended on the project without a loss time injury.

**14.0 FINAL ACCEPTANCE**

A final inspection was conducted by employees from the Louisiana Department of Natural Resources, the Natural Resource Conservation Service, Luhr Brothers, Inc. and Acadian on April 22, 2002. The project was accepted on that date, and the Contractor demobilized all equipment and supply barges from the job site.

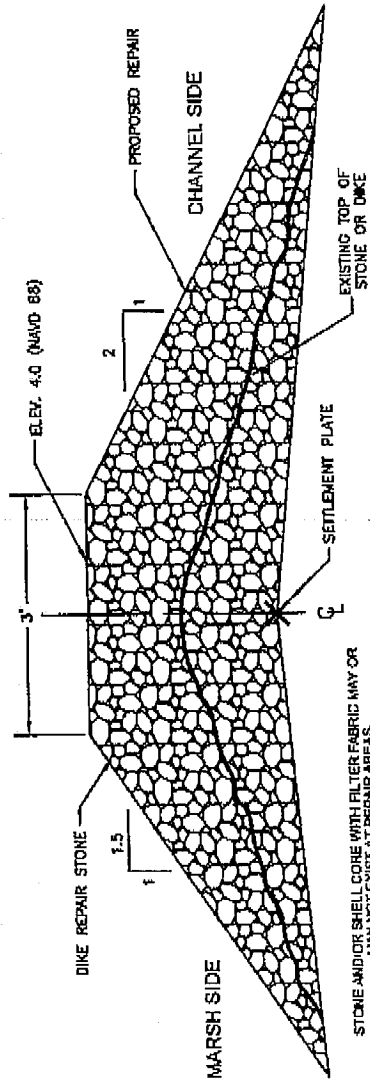


**6.0 SUPPLY BARGES USED ON JOBSITE**

Barge Name	Size
L1044	200x40x10
L1079	200x40x10
L1035	200x40x10
L1073	200x40x10
L1036	200x40x10
L1065	200x40x10
L1025	200x40x10
L995	200x40x10
L998	200x40x10
L1041	200x40x10
L1021	200x40x10
L1039	200x40x10
L1026	200x40x10
L1012	200x40x10
L1033	200x40x10
L994	200x40x10
L1068	200x40x10
L1046	200x40x10
L1045	200x40x10
L1047	200x40x10
GD912	195x35x10
GD974	195x35x10
GD898	195x35x10
GD916	195x35x10

PROJECT TV-11

ITEM NO.	STATION (BEGIN)	STATION (END)	LENGTH (FT)	QUANTITY (TONS)
1	279+00	279+50	50	80
2	284+50	285+50	100	150
3	286+50	287+10	60	90
4	290+80	291+40	60	120
5	294+70	295+90	220	387
6	297+50	298+60	80	106
7	309+50	300+80	40	80
8	371+80	372+00	40	66
9	375+80	377+00	120	190
10	380+40	381+10	70	100
11	388+00	388+40	40	76
12	390+20	391+40	120	240
13	382+50	394+50	200	400
14	398+70	399+10	40	50
15	410+80	413+30	250	311
16	414+70	418+30	160	300
17	418+50	417+20	30	60
18	417+70	418+00	30	45
19	419+80	420+00	40	60
20	428+30	429+70	140	243
21	433+80	434+10	50	76
22	436+00	438+40	40	60
23	438+70	438+30	160	240
24	439+00	439+70	70	105
25	440+60	444+80	420	630
26	445+30	445+80	50	80
27	448+40	448+80	20	30
28	453+40	454+80	120	240
29	455+50	457+80	210	273
30	459+60	461+00	140	271
31	472+50	475+50	300	500
32	478+60	477+20	60	90
33	478+70	479+40	70	105
34	482+00	485+00	300	400
35	486+10	488+00	280	380
36	493+70	495+60	190	350
37	498+70	500+70	200	280
38	501+70	502+90	120	150
39	503+30	504+00	70	106
40	512+20	513+80	170	340
41	516+30	517+00	70	90
42	517+60	525+50	730	1460
43	529+40	530+70	130	260
44	536+50	537+80	130	260
45	577+40	578+00	80	100
46	580+00	580+50	50	90
47	582+30	582+80	50	100



TYPICAL DIKE REPAIR SECTION (NOT TO SCALE)

