

SOIL BORINGS & LABORATORY TESTS
SAND SOURCE BORINGS
ISLE DERNIERES RESTORATION
PROJECT
EAST AND TRINITY ISLANDS
TERREBONNE PARISH, LOUISIANA
PROJECT NO. 5449A

FOR
STATE OF LOUISIANA
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION
BATON ROUGE, LOUISIANA

T. BAKER SMITH & SON, INC.
CONSULTING ENGINEERS
HOUMA, LOUISIANA

GORE ENGINEERING, INC.
SOIL AND FOUNDATION INVESTIGATIONS
METAIRIE, LOUISIANA

GORÉ ENGINEERING, INC.

SOIL AND FOUNDATION INVESTIGATIONS

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BORINGS
ANALYSES

TESTING
REPORTS

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8 January 1996

State of Louisiana
Dept. of Natural Resources
Coastal Restoration Division
c/o T. Baker Smith & Son, Inc.
P. O. Box 2266
Houma, Louisiana 70361

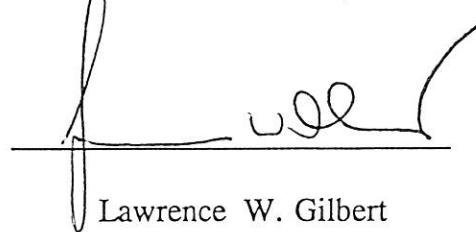
Soil Borings & Laboratory Tests
Sand Source Borings
Isle Dernieres Restoration Project
East And Trinity Islands
Terrebonne Parish, Louisiana

Gentlemen:

Herein is our report on the results of a subsoil foundation investigation made for the subject project.

Yours very truly,

GORÉ ENGINEERING, INC.



Lawrence W. Gilbert

LWG:jr

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**SOIL BORINGS AND LABORATORY TESTS
SAND SOURCE BORINGS
ISLE DERNIERES RESTORATION PROJECT
EAST AND TRINITY ISLANDS
TERREBONNE PARISH, LOUISIANA**

INTRODUCTION

1. This report contains the results of a subsoil investigation made at the subject site. Instructions to proceed with the investigation were received from Marc J. Rogers, Sr. of T. Baker Smith and Son, Inc., Consulting Engineers for the project. The study was made for the State of Louisiana, Department of Natural Resources, Coastal Restoration Division.

2. The study included the drilling of soil test borings to determine subsurface conditions and stratification and the performance of soil mechanics laboratory tests on samples obtained from the borings to evaluate their physical characteristics.

SOIL BORINGS AND SUBSOIL CONDITIONS

Field Exploration

3. Seventy-one (71) undisturbed sample type soil test borings (B-1 thru B-71) were drilled to depths of 19 to 29 ft. below water surface during the period of September 7 - 20, 1995. These borings extend about 15 ft. below mudline. The borings were made with a truck mounted drill rig from the deck of a furnished spud barge at

designated locations approximately as shown in a plan on Figure 1. Sampling was performed continuously with either a three inch diameter thin wall tube sampler or with a two inch diameter splitspoon sampler. Representative samples were cut from the cores and placed in moisture proof containers for preservation until laboratory testing could be performed. Logs of the borings showing the detailed stratification and sample depths are given on Figures 3 thru 26.

LABORATORY TESTS

4. In order to develop the physical properties of the soils, soil mechanics laboratory tests were performed on samples obtained from the borings. This testing consisted of Natural Moisture Content and Grain Size (full curve through No. 200 Sieve). The results of the Moisture Content determinations are tabulated along side the boring logs at the appropriate sample and depth on Figures 3 thru 26. Grain Size results are given on Figures 27 thru 96.

Grain Size Results

5. In order to define the characteristics of the more granular subsoils encountered in the soil borings, Grain Size (Sieve) analyses were performed. These tests consist of developing the full Grain Size distribution of the sands retained on the No. 200 Sieve. The laboratory testing program consisted of initially performing natural moisture contents and visual classifications on all of the individual soil samples. For each boring, the

samples recovered in 5 ft. intervals of depth below mudline were reviewed. In most cases, all of the more granular soils within the 5 ft. intervals for each individual boring were combined in equal percentages by weight to form composite samples. Soil samples which were clearly identifiable as clay were not included in the composite samples. Grain Size (Sieve) analyses were performed on each composite sample giving the distribution of particle size through the No. 200 Sieve. Results of these Grain Size analyses are given on Figures 27 thru 96.

6. In order to allow for a quantification of the sands within each depth interval for each boring, the mean and sorting (standard deviation) phi units were calculated for each Grain Size curve. The mean and sorting (standard deviation) phi units were calculated according to methods proposed by Folk and Inman as follows:

$$\text{Phi Units} = -\log_{(2)} \text{diameter (mm)} = - \frac{\log_{(10)} d (\text{mm})}{\log_{(10)} 2}$$

FOLK

$$\text{mean} = \frac{\text{phi (16)} + \text{phi (50)} + \text{phi (84)}}{3}$$

INMAN

$$\frac{\text{phi (16)} + \text{phi (84)}}{2}$$

$$\text{sorting} = \frac{\text{phi (84)} - \text{phi (16)}}{4} + \frac{\text{phi (95)} - \text{phi (5)}}{6.6} \quad \frac{\text{phi (84)} - \text{phi (16)}}{2}$$

Where phi (84) means the phi size at the 84th percentile on the cumulative percent retained graph.

7. Phi Unit Results Results of the calculations of the mean and sorting (standard deviation) phi units are given in Table 1 following the text, together with the percent retained on the No. 200 Sieve, for each composite sample analyzed. Where no results are indicated, there was insufficient percent sand retained on the No. 200 Sieve to perform the calculations. In general, the granular soils encountered generally consist of poorly graded silty fine sand, clayey fine sand or sand.

8. It should be noted that the Sieve analyses excluded soil samples which were clearly identifiable as clay. This should be considered when evaluating the total percentages of sand in the borrow areas explored.

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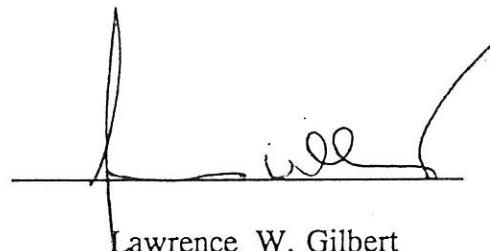


TABLE 1

BORING NO.	SAMPLE NO.	PERCENT RETAINED ON 200 SIEVE	FOLK METHOD		INMAN METHOD	
			Mean	Sorting	Mean	Sorting
B-2	2	41.60	--	--	--	--
B-3	2	75.87	--	--	--	--
B-4	3, 4 & 5	89.34	3.028	--	3.062	0.449
B-5	1	70.49	--	--	--	--
B-6	1 & 2	98.44	2.392	0.435	2.371	0.345
B-6	3, 4 & 5	97.77	2.485	0.445	2.475	0.382
B-7	3, 4 & 5	83.86	2.872	--	2.987	0.819
B-7	6 & 7	92.13	2.553	--	2.541	0.404
B-8	1	79.07	--	--	--	--
B-8	6	43.94	--	--	--	--
B-9	1	92.19	2.188	--	2.171	0.555
B-9	3, 4 & 5	92.37	2.507	--	2.518	0.506
B-9	6 & 7	94.89	2.259	0.643	2.216	0.497
B-10	1 & 2	97.53	2.425	0.456	2.383	0.349
B-10	3, 4 & 5	94.68	2.537	0.555	2.525	0.419
B-10	6 & 7	81.48	--	--	--	--
B-11	1 & 2	98.38	2.251	0.521	2.211	0.461
B-11	3, 4 & 5	98.17	2.472	0.546	2.460	0.439
B-11	7	96.15	2.418	0.452	2.396	0.351
B-12	1 & 2	93.89	2.457	--	2.438	0.388
B-12	3, 4 & 5	98.02	2.053	0.848	1.928	0.878
B-13	1 & 2	98.66	2.512	0.549	2.490	0.449
B-13	3, 4 & 5	95.13	2.528	0.693	2.503	0.489
B-14	1	96.14	2.137	0.982	1.978	1.017
B-14	3, 4 & 5	91.71	2.859	--	2.875	0.375
B-14	6 & 7	90.01	2.942	--	2.969	0.455
B-15	2	92.86	2.731	--	2.740	0.435
B-15	3, 4 & 5	72.01	--	--	--	--
B-15	6	72.28	--	--	--	--

TABLE 1

Cont'd

BORING NO.	SAMPLE NO.	PERCENT RETAINED ON 200 SIEVE	FOLK METHOD		INMAN METHOD	
			Mean	Sorting	Mean	Sorting
B-16	2	75.61	--	--	--	--
B-16	3, 4 & 5	79.95	--	--	--	--
B-16	6 & 7	88.06	2.929	--	2.966	0.540
B-17	1 & 2	69.59	--	--	--	--
B-17	4 & 5	85.86	3.118	--	3.163	0.525
B-17	7	95.69	2.909	0.371	2.912	0.320
B-18	2	73.63	--	--	--	--
B-18	3, 4 & 5	85.45	2.999	--	3.076	0.551
B-18	6	84.55	3.054	--	3.127	0.595
B-19	1 & 2	86.80	2.897	--	2.924	0.658
B-19	3, 4 & 5	71.48	--	--	--	--
B-19	6 & 7	92.79	2.848	--	2.875	0.350
B-20	1 & 2	77.19	--	--	--	--
B-20	3, 4 & 5	75.53	--	--	--	--
B-20	6 & 7	91.50	2.761	--	2.770	0.420
B-21	3, 4 & 5	76.20	--	--	--	--
B-21	6 & 7	44.66	--	--	--	--
B-22	1 & 2	76.01	--	--	--	--
B-22	5, 6 & 7	86.39	2.932	--	2.996	0.505
B-23	1 & 2	69.18	--	--	--	--
B-23	5, 6 & 7	91.25	2.834	--	2.850	0.378
B-24	1 & 2	97.01	2.534	0.627	2.493	0.448
B-24	3, 4 & 5	71.79	--	--	--	--
B-24	6 & 7	87.95	2.863	--	2.922	0.389
B-25	1 & 2	53.76	--	--	--	--
B-25	3, 4 & 5	69.99	--	--	--	--
B-25	6 & 7	89.63	2.947	--	2.979	0.451
B-26	1 & 2	49.92	--	--	--	--
B-26	4 & 5	88.56	2.900	--	2.958	0.461
B-26	6 & 7	91.51	2.869	--	2.882	0.370

TABLE 1

Cont'd

BORING NO.	SAMPLE NO.	PERCENT RETAINED ON 200 SIEVE	FOLK METHOD		INMAN METHOD	
			Mean	Sorting	Mean	Sorting
B-27	5	76.35	--	--	--	--
B-27	6 & 7	51.72	--	--	--	--
B-28	2	81.39	--	--	--	--
B-28	3, 4 & 5	64.93	--	--	--	--
B-28	6 & 7	72.51	--	--	--	--
B-29	3, 4 & 5	93.35	2.604	--	2.586	0.411
B-29	6 & 7	97.74	2.649	0.468	2.641	0.355
B-30	3, 4 & 5	95.90	2.848	0.408	2.861	0.329
B-30	6 & 7	89.38	2.722	--	2.754	0.430
B-31	3, 4 & 5	84.59	3.111	--	3.165	0.557
B-31	6 & 7	93.65	2.802	--	2.824	0.360
B-32	2	84.67	2.979	--	30.74	0.575
B-32	3, 4 & 5	94.88	2.781	0.414	2.808	0.320
B-32	6 & 7	94.14	2.807	--	2.841	0.352
B-33	3, 4 & 5	86.23	2.985	--	3.044	0.526
B-33	6 & 7	91.83	2.917	--	2.924	0.359
B-34	2	20.46	--	--	--	--
B-34	3, 4 & 5	87.22	2.868	--	2.890	0.527
B-34	6 & 7	86.71	2.886	--	2.926	0.477
B-35	4 & 5	82.71	--	--	--	--
B-35	6 & 7	75.96	--	--	--	--
B-36	3, 4 & 5	16.91	--	--	--	--
B-36	6 & 7	53.34	--	--	--	--
B-37	1 & 2	51.15	--	--	--	--
B-37	3, 4 & 5	87.91	2.724	--	2.748	0.462
B-37	6 & 7	91.30	2.678	--	2.684	0.537
B-38	2	91.92	2.982	--	3.003	0.396
B-38	3, 4 & 5	80.16	--	--	--	--
B-38	6 & 7	83.67	--	--	--	--
B-39	1 & 2	56.69	--	--	--	--

TABLE 1

Cont'd

BORING NO.	SAMPLE NO.	PERCENT RETAINED ON 200 SIEVE	FOLK METHOD		INMAN METHOD	
			Mean	Sorting	Mean	Sorting
B-40	5, 6 & 7	58.37	--	--	--	--
B-41	1 & 2	27.87	--	--	--	--
B-41	3, 4 & 5	86.15	2.806	--	2.893	0.669
B-41	6 & 7	85.28	2.936	--	3.005	0.684
B-42	1	39.22	--	--	--	--
B-42	3 & 4	75.06	--	--	--	--
B-42	6 & 7	83.41	--	--	--	--
B-43	2	83.83	30.97	--	3.179	0.593
B-43	3, 4 & 5	81.69	--	--	--	--
B-43	6	80.16	--	--	--	--
B-44	4 & 5	84.03	3.019	--	3.133	0.618
B-45	3 & 5	37.43	--	--	--	--
B-45	6 & 7	88.32	2.339	--	2.381	0.784
B-46	3 & 4	78.46	--	--	--	--
B-46	6 & 7	87.25	2.960	--	3.024	0.510
B-47	1	42.46	--	--	--	--
B-47	3, 4 & 5	77.35	--	--	--	--
B-47	6 & 7	82.06	--	--	--	--
B-48	3, 4 & 5	84.69	3.119	--	3.172	0.557
B-48	6 & 7	62.86	--	--	--	--
B-49	1 & 2	77.44	--	--	--	--
B-49	3, 4 & 5	83.57	3.133	--	3.200	0.577
B-49	6	87.78	3.061	--	3.109	0.493
B-50	3 & 4	79.82	--	--	--	--
B-50	6	88.28	2.724	--	2.743	0.390
B-51	4 & 5	74.94	--	--	--	--
B-51	6 & 7	88.68	2.040	--	2.159	0.812
B-52	4 & 5	77.63	--	--	--	--
B-52	7	91.99	2.314	--	2.311	0.484

TABLE 1

Cont'd

BORING NO.	SAMPLE NO.	PERCENT RETAINED ON 200 SIEVE	FOLK METHOD		INMAN METHOD	
			Mean	Sorting	Mean	Sorting
B-53	3, 4 & 5	86.28	2.923	--	2.991	0.478
B-53	6	89.01	2.693	--	2.708	0.462
B-54	1 & 1	79.90	--	--	--	--
B-54	3, 4 & 5	83.10	--	--	--	--
B-54	6	84.94	2.690	--	2.725	0.507
B-55	1 & 2	84.96	2.797	--	2.847	0.393
B-55	4 & 5	89.86	2.773	--	2.811	0.356
B-55	6 & 7	86.75	2.733	--	2.764	0.463
B-56	1 & 2	91.88	2.825	--	2.844	0.389
B-56	4 & 5	90.09	2.923	--	2.956	0.420
B-56	6 & 7	84.04	30.49	--	3.136	0.618
B-57	2	87.97	2.982	--	30.35	0.480
B-57	3, 4 & 5	86.65	3.073	--	3.125	0.520
B-57	6 & 7	86.00	3.117	--	3.158	0.533
B-58	4 & 5	84.44	3.040	--	3.125	0.599
B-58	6	91.22	2.639	--	2.647	0.425
B-59	1 & 2	15.80	--	--	--	--
B-59	4 & 5	90.76	2.118	--	--	--
B-59	6 & 7	79.35	--	--	--	--
B-60	1 & 2	32.76	--	--	--	--
B-60	3, 4 & 5	56.36	--	--	--	--
B-60	6 & 7	60.20	--	--	--	--
B-61	1 & 2	91.29	3.030	--	3.051	0.455
B-61	3, 4 & 5	82.93	--	--	--	--
B-61	6 & 7	68.20	--	--	--	--
B-62	4 & 5	82.91	--	--	--	--
B-62	6 & 7	78.07	--	--	--	--
B-63	5	82.28	--	--	--	--
B-63	6 & 7	52.32	--	--	--	--

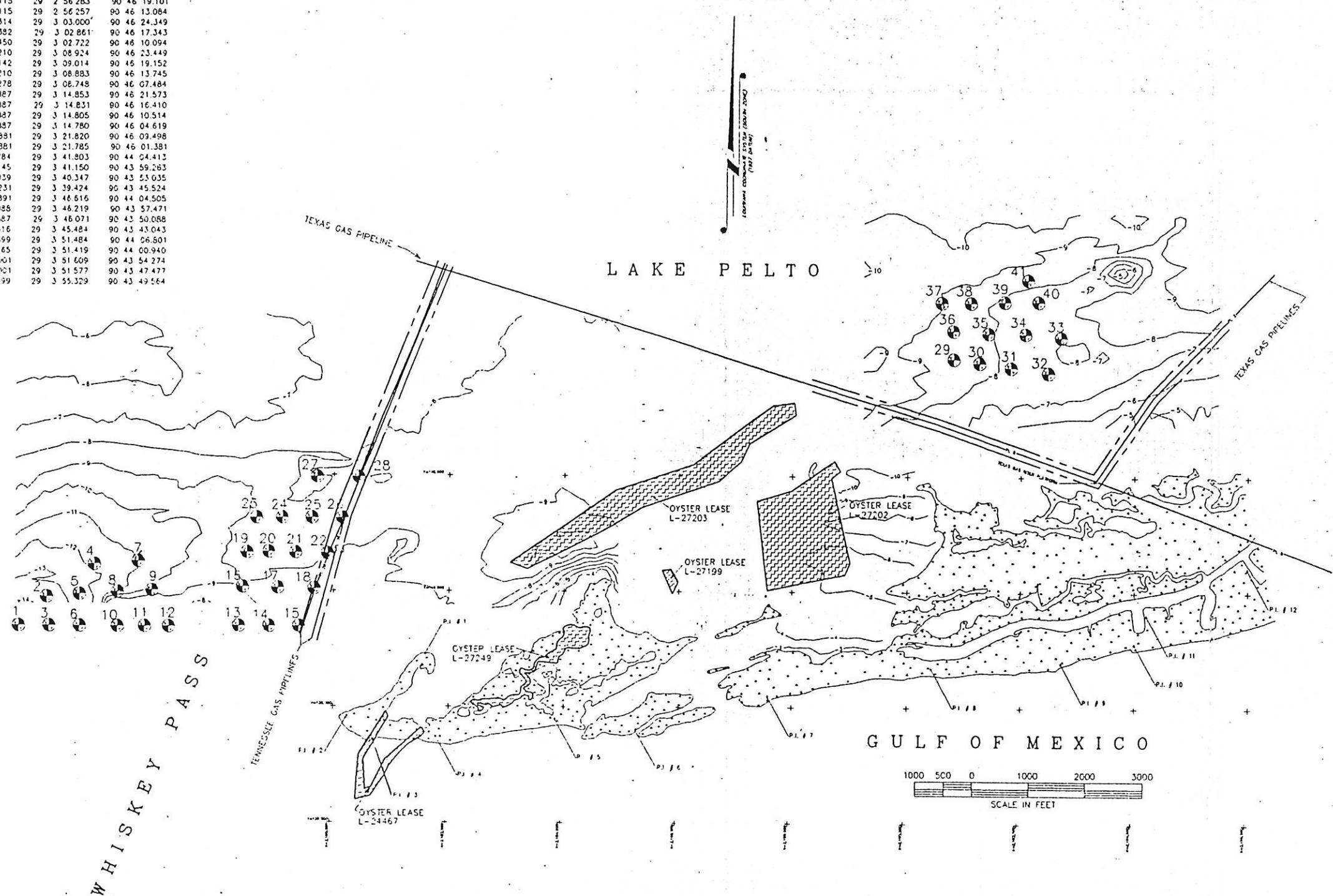
TABLE 1

Cont'd

BORING NO.	SAMPLE NO.	PERCENT RETAINED ON 200 SIEVE	FOLK METHOD		INMAN METHOD	
			Mean	Sorting	Mean	Sorting
B-64	1 & 2	91.76	2.817	--	2.802	0.490
B-64	3 & 4	93.36	2.841	--	2.840	0.408
B-64	6 & 7	80.59	--	--	--	--
B-65	1 & 2	21.79	--	--	--	--
B-65	5	86.65	2.908	--	2.966	0.574
B-65	6 & 7	67.88	--	--	--	--
B-66	4	86.64	2.856	--	2.916	0.463
B-66	7	89.17	2.775	--	2.803	0.495
B-67	1 & 2	63.42	--	--	--	--
B-67	3, 4 & 5	89.93	2.917	--	2.954	0.437
B-67	6 & 7	90.44	2.822	--	2.846	0.429
B-68	3	77.68	--	--	--	--
B-68	7	81.41	--	--	--	--
B-69	1 & 2	59.41	--	--	--	--
B-69	3, 4 & 5	76.73	--	--	--	--
B-69	6 & 7	88.66	3.010	--	3.050	0.493
B-70	1 & 2	45.67	--	--	--	--
B-70	3, 4 & 5	54.99	--	--	--	--
B-70	6 & 7	85.83	3.013	--	3.079	0.573
B-71	1 & 2	8.71	--	--	--	--
B-71	3, 4 & 5	8.49	--	--	--	--
B-71	6 & 7	58.09	--	--	--	--

FEDERAL PROJECT NO.	STATE PROJECT NO.	ENGINEERING CONTRACT NO.	PARISH	SHEET NO.
4353F15	TE-24/XTE-41	25085-94-02	TERREBONNE	14

POINT	X =	Y =	Lot. =	Long. =
1	2175062.500	139371.294	29	2 56.394 90 47 08.143
2	2175546.595	139874.560	29	3 01.353 90 47 02.662
3	2175590.789	139373.335	29	2 56.389 90 47 02.191
4	2176375.020	139437.500	29	3 06.689 90 46 53.299
5	2176121.119	139918.754	29	3 01.763 90 46 56.187
6	2176125.300	139369.454	29	2 56.325 90 46 56.173
7	2177137.585	140493.279	29	3 07.402 90 46 44.704
8	2176764.032	139962.949	29	3 02.169 90 46 46.716
9	2177375.000	139900.699	29	3 02.416 90 46 42.057
10	2176784.032	139365.533	29	2 56.255 90 46 48.749
11	2177250.000	139368.257	29	2 56.260 90 46 43.499
12	2177667.915	139364.645	29	2 56.204 90 46 38.792
13	2178851.569	139381.115	29	2 56.309 90 46 25.118
14	2179415.694	139361.115	29	2 56.283 90 46 19.101
15	2179949.820	139281.115	29	2 56.257 90 46 13.084
16	2178945.574	140057.314	29	3 03.000 90 46 24.349
17	2179568.457	140046.382	29	3 02.861 90 46 17.343
18	2160212.006	140035.450	29	3 02.722 90 46 10.094
19	2179323.497	140656.210	29	3 08.924 90 46 23.449
20	2179404.360	140667.142	29	3 09.014 90 46 19.152
21	2179684.815	140656.210	29	3 08.883 90 46 13.745
22	2180446.609	140645.278	29	3 08.748 90 46 07.484
23	2179187.093	141255.987	29	3 14.853 90 46 21.573
24	2179645.379	141255.887	29	3 14.831 90 46 16.410
25	2180168.671	141255.887	29	3 14.805 90 46 10.514
26	2180651.963	141255.887	29	3 14.780 90 46 04.619
27	2180255.345	141964.981	29	3 21.820 90 46 03.498
28	2180975.819	141964.881	29	3 21.785 90 46 01.381
29	2191346.938	144039.784	29	3 41.803 90 44 04.413
30	2191804.397	143976.145	29	3 41.150 90 43 59.263
31	2192357.603	143839.739	29	3 40.347 90 43 53.035
32	2193024.642	143908.231	29	3 39.424 90 43 45.524
33	2191336.300	144525.891	29	3 46.816 90 44 04.505
34	2191962.784	144489.085	29	3 46.219 90 43 57.471
35	2192616.120	144477.587	29	3 46.071 90 43 50.088
36	2193241.668	144421.616	29	3 45.484 90 43 43.043
37	2191129.911	145016.599	29	3 51.484 90 44 06.801
38	2191556.138	145012.765	29	3 51.419 90 44 00.940
39	2192241.642	145035.001	29	3 51.609 90 43 54.274
40	2192244.350	145035.001	29	3 51.577 90 43 47.477
41	2192657.111	145412.999	29	3 55.329 90 43 49.564



SAND SOURCE CONTOUR MAP
(0-5', 5-10' & 10-15' OVERLAY)

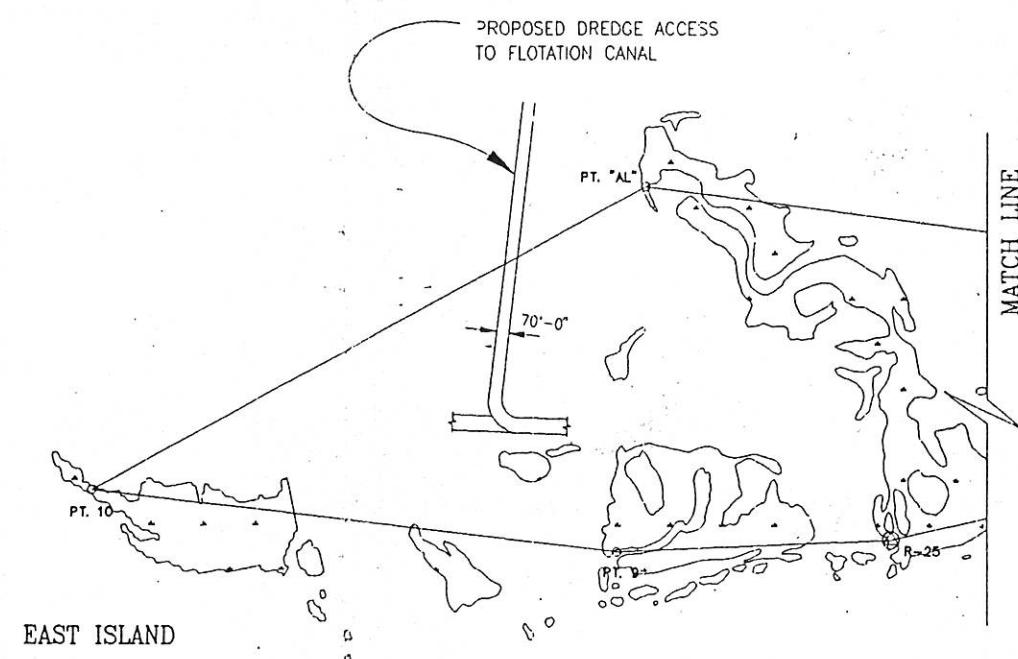
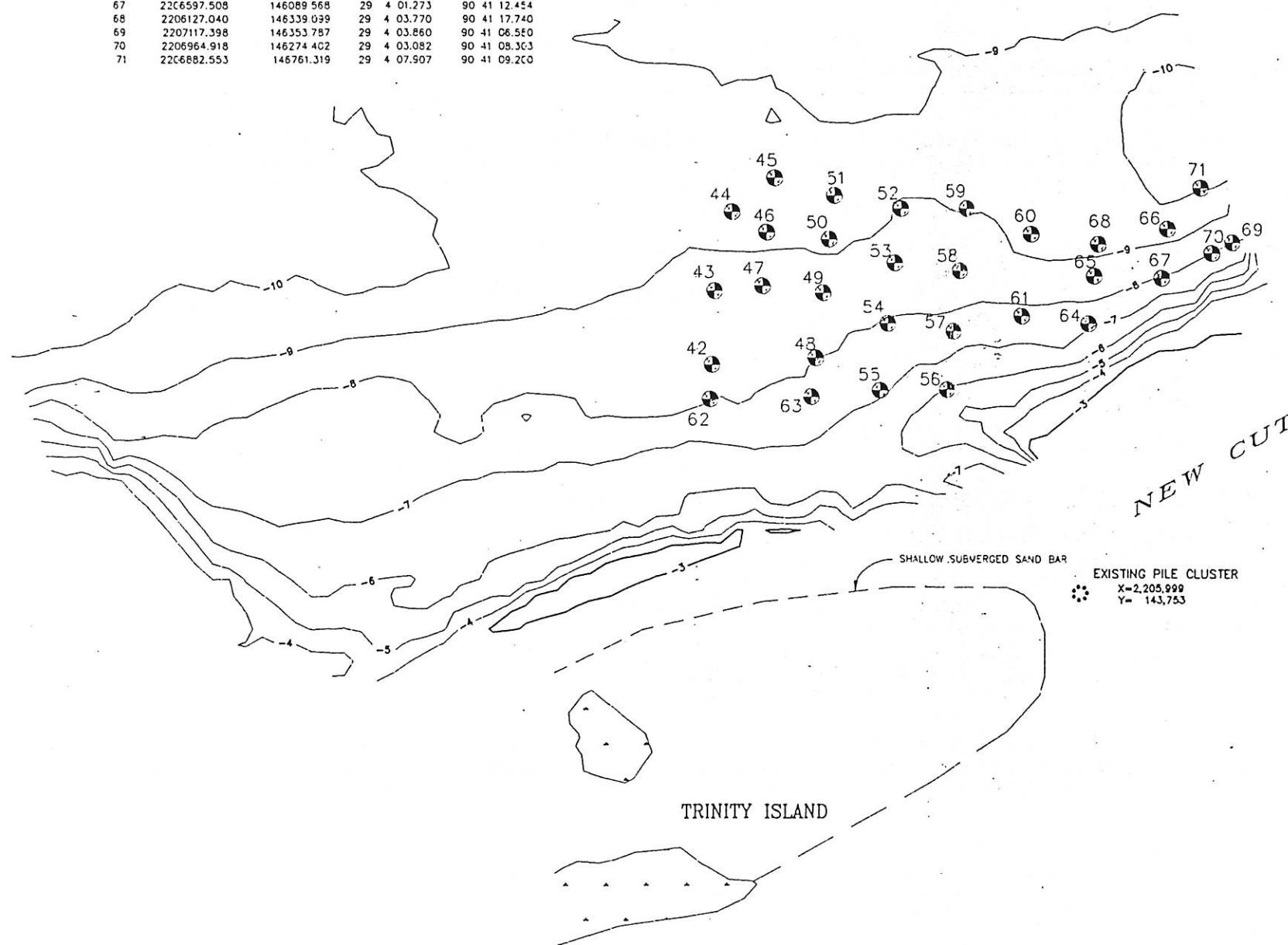
STATE OF LOUISIANA
DEPT. OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION
ISLE DERNIERES RESTORATION PROJECT
TRINITY ISLAND - PHASE I
DATE: MARCH 1994
DWG. FILE: IDECLAY1
SCALE: N.T.S.

DATE	DESCRIPTION	B+	DESIGNED BY	DETAILED BY	TRACED BY
	REVISIONS				



T. BAKER SMITH & SON, INC.
CIVIL ENGINEERS - SURVEYORS - ENVIRONMENTAL RESEARCH
P.O. BOX 2268 HOUma, LOUISIANA 70340

POINT	X = (NA27)	Y = (NA27)	Lat. = (NAD83)	Long. = (NAD83)
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43	2203270.339	145991.066	29 4 00.483	90 41 49.950
44	2203399.377	146577.628	29 4 06.282	90 41 48.459
45	2203709.720	146830.855	29 4 08.772	90 41 44.946
46	2203651.373	146425.379	29 4 04.761	90 41 45.629
47	2203620.365	146027.577	29 4 00.825	90 41 46.004
48	2204013.537	145494.834	29 3 55.530	90 41 41.667
49	2204068.433	145976.505	29 4 00.294	90 41 40.958
50	2204113.592	146372.693	29 4 04.214	90 41 40.424
51	2204150.795	146699.089	29 4 07.443	90 41 39.955
52	2204642.952	146601.871	29 4 06.453	90 41 34.445
53	2204596.930	146198.111	29 4 02.459	90 41 34.989
54	2204544.933	145748.362	29 3 58.010	90 41 35.604
55	2204488.603	145257.739	29 3 53.156	90 41 36.269
56	2204993.381	145261.251	29 3 53.163	90 41 30.581
57	2205042.669	145693.663	29 3 57.441	90 41 29.959
58	2205093.713	146141.486	29 4 01.871	90 41 29.355
59	2205146.692	146606.281	29 4 06.469	90 41 28.769
60	2205628.044	146414.275	29 4 04.541	90 41 23.357
61	2205558.782	145836.630	29 3 58.530	90 41 24.176
62	2205238.669	145188.459	29 3 52.540	90 41 50.380
63	2203982.089	145205.771	29 3 52.670	90 41 41.980
64	2206055.566	145750.035	29 3 57.942	90 41 18.582
65	2206095.735	146102.419	29 4 01.428	90 41 18.1C7
66	2206639.005	146453.630	29 4 04.875	90 41 11.964
67	2206597.508	146089.568	29 4 01.273	90 41 12.454
68	2206127.040	146339.099	29 4 03.770	90 41 17.740
69	2207117.398	146353.787	29 4 03.860	90 41 06.580
70	2206964.918	146274.402	29 4 03.082	90 41 08.3C3
71	2206882.553	146761.319	29 4 07.907	90 41 09.2C0



REFERENCE MAP: PAGES 7 & 8 OF A SET OF PLANS ENTITLED
STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
OFFICE OF PUBLIC WORKS PLANS OF PROPOSED EAST ISLE DERNIERES RESTORATION
S.P. NO. 750-35-01 TERREBONNE PARISH
BY PLAISANCE/SMITH ENGINEERS, DATED 07/21/88

STATE OF LOUISIANA DEPT. OF NATURAL RESOURCES COASTAL RESTORATION DIVISION ISLE DERNIERES RESTORATION PROJECT PHASE 0 - EAST ISLAND	
DWG. FILE: 1138-13	
DATE: MARCH, 1994 SCALE: N.T.S.	
T. BAKER SMITH & SON, INC. CIVL ENGINEERS - SURVEYORS - ENVIRONMENTAL RESEARCH P.O. BOX 2268 HOUma, LOUISIANA 70361	
DESIGNED	DETAILED
CHECKED	CHECKED
DESIGNED	DETAILED
CHECKED	CHECKED

Reported by COASTAL ENGINEERING AND ENVIRONMENTAL CONSULTANTS, INC. Engineering - Surveying - Planning - Environmental Consulting			
DESIGNED	DETAILED	DK	TRACED
CHECKED	CHECKED	CHECKED	CHECKED
DATE	DESCRIPTION	BY	
	REVISIONS		

GORE ENGINEERING, INC.

J#5449

Soil and Foundation Investigations
Metairie, Louisiana

Boring No. B-1

LOG OF BORING AND TEST RESULTS

Date of Boring: 19 Sep 1991

Project: SAND SOURCE BORINGS - ISLE DERNIERES RESTORATION PROJECT - EAST AND TRINITY ISLANDS - TERREBONNE PARISH, LOUISIANA
 FOR: STATE OF LOUISIANA - DEPARTMENT OF NATURAL RESOURCES - COASTAL RESTORATION DIVISION - BATON ROUGE, LOUISIANA
 T. BAKER SMITH & SON, INC. - CONSULTING ENGINEERS - HOUMA, LOUISIANA

Recorded By: D. A. Hill

Sample No.	SAMPLE Depth in Feet		STRATUM Depth in feet	VISUAL CLASSIFICATION	*Blows per Foot	Symbol	Scale Log (ft)	UNCONFINED COMP. (qu) (lbs./sq.ft)	WATER CONTENT (percent)	UNIT WEIGHT (lbs./cu.ft.)		ATTERBERG LIMITS		
	From	To								DRY	WET	L.L.	P.L.	P.I.
			.0	WATER										
			14.0	VERY SOFT GRAY CLAY W/SAND POCKETS						56.9				
1	15.5	16.0								54.5				
2	17.5	18.0								67.5				
3	19.5	20.0								47.4				
4	21.5	22.0								75.0				
5	23.5	24.0								56.2				
6	25.5	26.0								61.7				
7	28.5	29.0	29.0											
				Boring Number B-2										
			.0	WATER										
			14.0	VERY SOFT GRAY CLAY						98.0				
1	15.5	16.0								36.8				
2	17.5	18.0		VERY SOFT GRAY SANDY CLAY						55.0				
3	19.5	20.0								48.4				
4	21.5	22.0								40.7				
5	23.5	24.0		SOFT GRAY CLAY W/SAND LENSES						67.0				
6	25.5	26.0								56.9				
7	28.5	29.0	29.0											
				Boring Number B-3										
			.0	WATER										
			14.0	LOOSE GRAY SILTY FINE SAND						37.9				
1	15.5	16.0								35.1				
2	17.5	18.0								55.1				
3	19.5	20.0		(SAND LAYERS AT 21.5' - 22.0')						36.6				
4	21.5	22.0								61.2				
5	23.5	24.0		VERY SOFT GRAY CLAY						62.6				
6	25.5	26.0								60.1				
7	28.5	29.0	29.0											



CLAY



SILT



SAND



ORGANIC

*140 lb. hammer dropped 30 in.
on 2 in. splitspoon sampler
after first being seated 6 in.

REMARKS:

Predominant type bold. Modifying type light.

GORE ENGINEERING, INC.

Soil and Foundation Investigations
Metairie, Louisiana

J#5449A

Boring No. B-4

LOG OF BORING AND TEST RESULTS

Date of Boring: 19 Sep 1995

Project: SAND SOURCE BORINGS - ISLE DERNIERES RESTORATION PROJECT - EAST AND TRINITY ISLANDS - TERREBONNE PARISH, LOUISIANA
 FOR: STATE OF LOUISIANA - DEPARTMENT OF NATURAL RESOURCES - COASTAL RESTORATION DIVISION - BATON ROUGE, LOUISIANA
 T. BAKER SMITH & SON, INC. - CONSULTING ENGINEERS - HOUMA, LOUISIANA

Recorded By: D. A. Hill

Sample No.	SAMPLE Depth in Feet		STRATUM Depth in feet	VISUAL CLASSIFICATION	*Blows per Foot	Symbol	Scale (ft)	UNCONFINED COMP. (qu)	WATER CONTENT (percent)	UNIT WEIGHT (lbs./cu.ft.)		ATTERBERG LIMITS		
	From	To								10	DRY	WET	L.L.	P.L.
			.0	WATER										
			12.0	13.5 14.0 15.5 16.0	VERY SOFT GRAY CLAY W/SAND					44.0 46.9				
3	17.5	18.0	17.0	19.5 20.0 21.5 22.0	LOOSE GRAY SILTY FINE SAND					33.7 30.4 26.3				
6	23.5	24.0	23.0	26.5 27.0	17.0 23.0 27.0 23.5 24.0 26.5 27.0	VERY SOFT GRAY CLAY W/SAND LENSES				58.4 44.9				
					Boring Number B-5				0					
			.0		WATER					10				
1	14.5	15.0	13.0	16.5 17.0 18.5 19.0 20.5 21.0 22.5 23.0 24.5 25.0 27.5 28.0	LOOSE GRAY SILTY FINE SAND W/CLAY					29.7				
2	16.5	17.0	16.0	18.5 19.0 20.5 21.0 22.5 23.0 24.5 25.0 27.5 28.0	16.0 20.5 21.0 22.5 23.0 24.5 25.0 27.5 28.0	VERY SOFT TO SOFT GRAY CLAY				52.6 65.4 56.7 51.5 43.9 70.3				
					Boring Number B-6				0					
			.0		WATER									
1	9.5	10.0	8.0	11.5 12.0 13.5 14.0 15.5 16.0 17.5 18.0	LOOSE GRAY FINE SAND					28.0 23.8 29.0 25.6 23.3				
6	19.5	20.0	19.0	22.5 23.0	19.0 23.0	SOFT GRAY CLAY W/SAND LENSES				41.8 50.8				



CLAY



SILT



SAND



ORGANIC

*140 lb. hammer dropped 30 in.
 on 2 in. split spoon sampler
 after first being seated 6 in.

REMARKS:

Predominant type bold. Modifying type light.

GORE ENGINEERING, INC.

J#5449A

Soil and Foundation Investigations
Metairie, Louisiana

Boring No. B-7

LOG OF BORING AND TEST RESULTS

Date of Boring: 19 Sep 1995

Project: SAND SOURCE BORINGS - ISLE DERNIERES RESTORATION PROJECT - EAST AND TRINITY ISLANDS - TERREBONNE PARISH, LOUISIANA
 FOR: STATE OF LOUISIANA - DEPARTMENT OF NATURAL RESOURCES - COASTAL RESTORATION DIVISION - BATON ROUGE, LOUISIANA
 T. BAKER SMITH & SON, INC. - CONSULTING ENGINEERS - HOUMA, LOUISIANA

Recorded By: D. A. Hill

Sample No.	SAMPLE Depth in Feet		STRATUM Depth in feet	VISUAL CLASSIFICATION	*Blows per Foot	Symbol	Scale	UNCONFINED COMP. (qu)	WATER CONTENT	UNIT WEIGHT (lbs./cu.ft.)		ATTERBERG LIMITS				
	From	To								(ft)	(lbs/sq.ft)	(percent)	DRY	WET	L.L.	P.L.
			0	WATER						10						
1	12.5	13.0	11.0	VERY SOFT GRAY SANDY CLAY W/SHELL							34.0					
2	14.5	15.0									48.5					
3	16.5	17.0	16.0	LOOSE GRAY SILTY FINE SAND W/SHELL							37.4					
4	18.5	19.0									32.3					
5	20.5	21.0	17.0								28.2					
6	22.5	23.0	21.0	LOOSE GRAY FINE SAND							32.2					
7	25.5	26.0	26.0								36.7					
			0	Boring Number B-8						0						
			0	WATER						10						
1	12.5	13.0	11.0	LOOSE GRAY SILTY FINE SAND							25.2					
2	14.5	15.0	14.0	VERY SOFT GRAY SANDY CLAY							45.7					
3	16.5	17.0									42.9					
4	18.5	19.0	18.0	VERY SOFT GRAY CLAY W/SAND & SHELL							37.0					
5	20.5	21.0									54.5					
6	22.5	23.0	22.0	LOOSE GRAY SANDY SILT							37.2					
7	25.5	26.0	26.0								38.5					
			0	Boring Number B-9						0						
			0	WATER						10						
1	11.5	12.0	10.0	LOOSE GRAY FINE SAND							33.1					
2	13.5	14.0	13.0	SOFT GRAY CLAY W/SAND							62.8					
3	15.5	16.0									32.8					
4	17.5	18.0									32.3					
5	19.5	20.0									26.5					
6	21.5	22.0									31.8					
7	24.5	25.0	25.0	LOOSE GRAY FINE SAND							23.2					



Predominant type bold. Modifying type light.

*140 lb. hammer dropped 30 in.
on 2 in. split-spoon sampler
after first being seated 6 in.

REMARKS:

GORE ENGINEERING, INC.

Soil and Foundation Investigations
Metairie, Louisiana

J#5449A

Boring No. B-10

LOG OF BORING AND TEST RESULTS

Date of Boring: 19 Sep 1995

Project: SAND SOURCE BORINGS - ISLE DERNIERES RESTORATION PROJECT - EAST AND TRINITY ISLANDS - TERREBONNE PARISH, LOUISIANA
 FOR: STATE OF LOUISIANA - DEPARTMENT OF NATURAL RESOURCES - COASTAL RESTORATION DIVISION - BATON ROUGE, LOUISIANA
 T. BAKER SMITH & SON, INC. - CONSULTING ENGINEERS HOUma, LOUISIANA

Recorded By: D. A. Hill

Sample No.	SAMPLE Depth in Feet		STRATUM Depth in feet	VISUAL CLASSIFICATION	•Blows per Foot	Symbol	Scale (ft)	UNCONFINED COMP. (qv)	WATER CONTENT (percent)	UNIT WEIGHT (lbs./cu.ft.)		ATTERBERG LIMITS		
	From	To								DRY	WET	L.L.	P.L.	P.I.
			.0	WATER										
			7.0	LOOSE GRAY FINE SAND (W/SHELL @ 16.5-17.0')		•	10			30.2				
1	8.5	9.0								22.8				
2	10.5	11.0								26.3				
3	12.5	13.0								33.0				
4	14.5	15.0								32.9				
5	16.5	17.0	17.0	LOOSE GRAY SILTY FINE SAND		•	20							
6	18.5	19.0								20.2				
7	21.5	22.0	22.0											
				Boring Number B-11										
			.0	WATER										
			8.0	LOOSE GRAY FINE SAND		•	10			24.2				
1	9.5	10.0								20.4				
2	11.5	12.0								27.6				
3	13.5	14.0								23.6				
4	15.5	16.0								23.4				
5	17.5	18.0												
6	19.5	20.0	19.0	SOFT GRAY CLAY W/SAND & SHELL		•	20			42.2				
7	22.5	23.0	22.0	LOOSE GRAY FINE SAND		•	20			29.7				
			23.0											
				Boring Number B-12										
			.0	WATER										
			8.0	LOOSE GRAY FINE SAND W/SHELL		•	10			20.5				
1	9.5	10.0								26.4				
2	11.5	12.0								23.3				
3	13.5	14.0								26.9				
4	15.5	16.0								22.0				
5	17.5	18.0		(W/SOME CLAY @ 17.5-18.0')										
6	19.5	20.0	19.0	SOFT GRAY CLAY W/SAND & SHELL		•	20			48.8				
7	22.5	23.0	23.0							49.9				

 CLAY  SILT  SAND  ORGANIC

*140 lb. hammer dropped 30 in.
on 2 in. split spoon sampler
after first being seated 6 in.

REMARKS:

Predominant type bold. Modifying type light.

GORE ENGINEERING, INC.

J#5449A

Soil and Foundation Investigations
Metairie, Louisiana

Boring No. B-13

LOG OF BORING AND TEST RESULTS

Date of Boring: 20 Sep 1995

Project: SAND SOURCE BORINGS - ISLE DERNIERES RESTORATION PROJECT - EAST AND TRINITY ISLANDS - TERREBONNE PARISH, LOUISIANA
 FOR: STATE OF LOUISIANA - DEPARTMENT OF NATURAL RESOURCES - COASTAL RESTORATION DIVISION - BATON ROUGE, LOUISIANA
 T. BAKER SMITH & SON, INC. - CONSULTING ENGINEERS - HOUMA, LOUISIANA

Recorded By: D. A. HILL

Sample No.	SAMPLE Depth in Feet		STRATUM Depth in feet	VISUAL CLASSIFICATION	•Blows per Foot	Symbol Log	Scale (ft)	UNCONFINED COMP. (qu)	WATER CONTENT (percent)	UNIT WEIGHT (lbs./cu.ft.)		ATTERBERG LIMITS			
	From	To								DRY	WET	L.L.	F.L.	P.I.	
			.0	WATER											
1	10.5	11.0	9.0	LOOSE GRAY FINE SAND			10			26.1					
2	12.5	13.0								23.8					
3	14.5	15.0								27.2					
4	16.5	17.0								24.2					
5	18.5	19.0								23.0					
6	20.5	21.0					20			64.2					
7	23.5	24.0	22.0	SOFT GRAY CLAY W/SAND						48.3					
			24.0												
Boring Number B-14															
			.0	WATER											
1	10.5	11.0	9.0	LOOSE GRAY FINE SAND W/SHELL			10			21.5					
2	12.5	13.0	12.0	VERY SOFT GRAY CLAY W/SAND						39.7					
3	14.5	15.0								25.2					
4	16.5	17.0								23.5					
5	18.5	19.0								22.3					
6	20.5	21.0		LOOSE GRAY FINE SAND			20			25.1					
7	23.5	24.0	24.0							23.3					
Boring Number B-15															
			.0	WATER											
1	11.5	12.0	10.0	VERY SOFT GRAY CLAY W/SAND			10			41.3					
2	13.5	14.0	13.5	LOOSE GRAY FINE SAND W/SHELL						29.4					
3	15.5	16.0								35.1					
4	17.5	18.0								27.3					
5	19.5	20.0								25.5					
6	21.5	22.0		LOOSE GRAY SILTY FINE SAND W/SHELL			20			26.2					
7	24.5	25.0	23.0	SOFT GRAY CLAY W/SHELL & SAND LAYERS						40.4					
			25.0												

*140 lb. hammer dropped 30 in.
on 2 in. split spoon sampler
after first being seated 6 in.

REMARKS:

Predominant type bold. Modifying type light.

GORE ENGINEERING, INC.

Soil and Foundation Investigations
Metairie, Louisiana

J#5449A

Boring No. B-16

LOG OF BORING AND TEST RESULTS

Date of Boring: 20 Sep 1995

Project: SAND SOURCE BORINGS - ISLE DERNIERES RESTORATION PROJECT - EAST AND TRINITY ISLANDS - TERREBONNE PARISH, LOUISIANA
 FOR: STATE OF LOUISIANA - DEPARTMENT OF NATURAL RESOURCES - COASTAL RESTORATION DIVISION - BATON ROUGE, LOUISIANA
 T. BAKER SMITH & SON, INC. - CONSULTING ENGINEERS - HOUMA, LOUISIANA

Recorded By: D. A. HILL

Sample No.	SAMPLE Depth in Feet		STRATUM Depth in feet	VISUAL CLASSIFICATION	•Blows per Foot	Symbol Log	Scale (ft)	UNCONFINED COMP. (qv)	WATER CONTENT (percent)	UNIT WEIGHT (lbs./cu.ft.)		ATTERBERG LIMITS			
	From	To								DRY	WET	L.L.	P.L.	P.I.	
			.0	WATER											
1	10.5	11.0	9.0	VERY SOFT GRAY CLAY W/SAND		10				41.4					
2	12.5	13.0	12.0							34.9					
3	14.5	15.0		LOOSE GRAY SILTY FINE SAND W/CLAY						31.5					
4	16.5	17.0								25.7					
5	18.5	19.0								28.0					
6	20.5	21.0	20.0	LOOSE GRAY FINE SAND		20				23.9					
7	23.5	24.0	24.0							28.1					
				Boring Number B-17											
			.0	WATER											
1	10.5	11.0	9.0							10					
2	12.5	13.0		LOOSE GRAY CLAYEY FINE SAND W/SHELL						33.5					
3	14.5	15.0	14.0							37.9					
4	16.5	17.0	16.0	SOFT GRAY SANDY CLAY W/SHELL FRAGMENTS						46.9					
5	18.5	19.0		LOOSE GRAY FINE SAND W/SHELL						29.4					
6	20.5	21.0	20.0							28.2					
7	23.5	24.0	22.0	SOFT GRAY SANDY CLAY W/SHELL FRAGMENTS						41.8					
			24.0	LOOSE GRAY FINE SAND W/SHELL						26.7					
				Boring Number B-18											
			.0	WATER											
										10					
1	11.5	12.0	10.0								44.6				
2	13.5	14.0	13.0	VERY SOFT GRAY CLAY W/SHELL & SAND											
3	15.5	16.0									37.2				
4	17.5	18.0	15.0	LOOSE GRAY SILTY FINE SAND W/CLAY											
5	19.5	20.0									27.5				
6	21.5	22.0		LOOSE GRAY FINE SAND W/SHELL							28.0				
7	24.5	25.0	23.5								29.4				
			25.0	SOFT GRAY SANDY CLAY W/SHELL							28.4				

Predominant type bold. Modifying type light.

*140 lb. hammer dropped 30 in.
on 2 in. split spoon sampler
after first being seated 6 in.

REMARKS:

GORE ENGINEERING, INC.

J#54498

**Soil and Foundation Investigations
Metairie, Louisiana**

Boring No. B-19

LOG OF BORING AND TEST RESULTS

Date of Boring: 18 Sep 1995

Recorded By: D. A. Hill



CLAY



13



1



IC

-14-

40 11
3 in

40 lb. H
2 in.

"140 lb. hammer dropped 30 in.
on 2 in. splitspoon sampler
after first being seated 6 in.

REMARKS:

Fig. 9

GORE ENGINEERING, INC.

**Soil and Foundation Investigations
Metairie, Louisiana**

J-5449A

Boring No. B-22

LOG OF BORING AND TEST RESULTS

Date of Boring: 15 Sep 1995

Recorded By: D. A. Hill



CL



S



1



1



WIC

*140 lb. hammer dropped 30 in.
on 2 in. splitspoon sampler
after first being seated 6 in.

REMARKS:

CLAY SILT SAND ORGANIC
Predominant type bold. Modifying type light.

GORE ENGINEERING, INC.

J#54492

Soil and Foundation Investigations
Metairie, Louisiana

Boring No. B-25

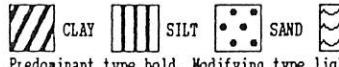
LOG OF BORING AND TEST RESULTS

Date of Boring: 18 Sep 1995

Project: SAND SOURCE BORINGS - ISLE DERNIERES RESTORATION PROJECT - EAST AND TRINITY ISLANDS - TERREBONNE PARISH, LOUISIANA
 FOR: STATE OF LOUISIANA - DEPARTMENT OF NATURAL RESOURCES - COASTAL RESTORATION DIVISION - BATON ROUGE, LOUISIANA
 T. BAKER SMITH & SON, INC. - CONSULTING ENGINEERS - HOUMA, LOUISIANA

Recorded By: D. A. Hill

Sample No.	SAMPLE Depth in Feet		STRATUM Depth in feet	VISUAL CLASSIFICATION	•Blows per Foot	Symbol	Scale	UNCONFINED COMP. (qu) (lbs/sq.ft)	WATER CONTENT (percent)	UNIT WEIGHT (lbs./cu.ft.)		ATTERBERG LIMITS					
	From	To								Log	(ft)	(lbs/sq.ft)	percent	DRY	WET	L.L.	P.L.
			.0	WATER													
1	10.5	11.0	9.0	LOOSE GRAY CLAYEY FINE SAND W/CLAY						10		31.4					
2	12.5	13.0										47.2					
3	14.5	15.0										61.1					
4	16.5	17.0										21.9					
5	18.5	19.0										30.3					
6	20.5	21.0	20.0	LOOSE GRAY FINE SAND						20		26.6					
7	23.5	24.0										23.2					
			24.0														
			.0	Auger Boring Number B-26													
				WATER													
1	10.5	11.0	9.0	SOFT GRAY SANDY CLAY W/CLAY LAYERS						10		47.2					
2	12.5	13.0										39.7					
3	14.5	15.0	14.0	VERY SOFT GRAY CLAY W/SAND								57.4					
4	16.5	17.0	16.0									30.8					
5	18.5	19.0										27.1					
6	20.5	21.0										33.5					
7	23.5	24.0	24.0	LOOSE GRAY FINE SAND W/SHELL						20		26.3					
			.0	Auger Boring Number B-27													
				WATER													
1	10.5	11.0	9.0														
2	12.5	13.0															
3	14.5	15.0															
4	16.5	17.0															
5	18.5	19.0	18.0	VERY SOFT GRAY CLAY W/SAND LAYERS & SHELL						10		53.1					
6	20.5	21.0	20.0	LOOSE GRAY SILTY FINE SAND W/SHELL								59.1					
7	23.5	24.0	24.0	LOOSE GRAY CLAYEY FINE SAND W/CLAY LAYERS & SHELL						20		51.8					
												63.1					
												30.5					
												45.3					
												41.3					



*140 lb. hammer dropped 30 in.
on 2 in. splitspoon sampler
after first being seated 6 in.

REMARKS:

Predominant type bold. Modifying type light.

GORE ENGINEERING, INC.

J#5449A

Soil and Foundation Investigations
Metairie, Louisiana

Boring No. B-31

LOG OF BORING AND TEST RESULTS

Date of Boring: 14 Sep 1995

Project: SAND SOURCE BORINGS - ISLE DERNIERES RESTORATION PROJECT - EAST AND TRINITY ISLANDS - TERREBONNE PARISH, LOUISIANA
 FOR: STATE OF LOUISIANA - DEPARTMENT OF NATURAL RESOURCES - COASTAL RESTORATION DIVISION - BATON ROUGE, LOUISIANA
 T. BAKER SMITH & SON, INC. - CONSULTING ENGINEERS - HOUMA, LOUISIANA

Recorded By: D. A. Hill

Sample No.	SAMPLE Depth in Feet		STRATUM Depth in feet	VISUAL CLASSIFICATION	*Blows per Foot	Symbol Log	Scale (ft)	UNCONFINED COMP. (qu)	WATER CONTENT (percent)	UNIT WEIGHT (lbs./cu.ft.)		ATTERBERG LIMITS		
	From	To								DRY	WET	L.L.	P.L.	P.I.
			.0	WATER										
1	9.5	10.0	8.0	VERY SOFT GRAY CLAY W/SILT						10	77.7			
2	11.5	12.0									56.3			
3	13.5	14.0	13.0	LOOSE GRAY SILTY FINE SAND W/SHELL							36.4			
4	15.5	16.0									26.9			
5	17.5	18.0									43.9			
6	19.5	20.0	19.0	LOOSE GRAY FINE SAND W/SHELL						20	31.8			
7	22.5	23.0									26.5			
			23.0											
				Boring Number B-32										
			.0	WATER										
1	9.5	10.0	8.0	VERY SOFT GRAY CLAY W/SAND						10	72.4			
2	11.5	12.0	11.0	LOOSE GRAY SILTY FINE SAND W/SHELL							31.4			
3	13.5	14.0									23.3			
4	15.5	16.0									24.8			
5	17.5	18.0									30.9			
6	19.5	20.0								20	24.6			
7	22.5	23.0	23.0								31.3			
				Boring Number B-33										
			.0	WATER										
1	9.5	10.0	8.0	VERY SOFT GRAY CLAY W/SAND						10	53.4			
2	11.5	12.0									53.2			
3	13.5	14.0	13.0	LOOSE GRAY SILTY FINE SAND W/SHELL							32.4			
4	15.5	16.0									25.3			
5	17.5	18.0									31.1			
6	19.5	20.0								20	30.0			
7	22.5	23.0	23.0								31.6			



CLAY



SILT



SAND



ORGANIC

*140 lb. hammer dropped 30 in.
on 2 in. splitspoon sampler
after first being seated 6 in.

REMARKS:

Predominant type bold. Modifying type light.

GORE ENGINEERING, INC.

Soil and Foundation Investigations
Metairie, Louisiana

J#5449

Boring No. B-34

LOG OF BORING AND TEST RESULTS

Date of Boring: 14 Sep 199

Project: SAND SOURCE BORINGS - ISLE DERNIERES RESTORATION PROJECT - EAST AND TRINITY ISLANDS - TERREBONNE PARISH, LOUISIANA
 FOR: STATE OF LOUISIANA - DEPARTMENT OF NATURAL RESOURCES - COASTAL RESTORATION DIVISION - BATON ROUGE, LOUISIANA
 T. BAKER SMITH & SON, INC. - CONSULTING ENGINEERS - HOUMA, LOUISIANA
 Recorded By: D. A. Hill

Sample No.	SAMPLE Depth in Feet		STRATUM Depth in feet	VISUAL CLASSIFICATION	*Blows per Foot Log	Symbol	Scale	UNCONFINED COMP. (qu) (lbs/sq.ft)	WATER CONTENT (percent)	UNIT WEIGHT (lbs./cu.ft.)		ATTERBERG LIMITS		
	From	To								DRY	WET	L.L.	P.L.	P.I.
			.0	WATER										
			8.0	VERY SOFT GRAY SANDY CLAY						10	78.1			
1	9.5	10.0									37.7			
2	11.5	12.0												
3	13.5	14.0	13.0	LOOSE GRAY SILTY FINE SAND W/SHELL							31.8			
4	15.5	16.0									27.7			
5	17.5	18.0									27.8			
6	19.5	20.0									25.9			
7	22.5	23.0	23.0								32.1			
			.0											
			8.0											
			14.0	Auger Boring Number B-35										
			14.0	WATER										
1	9.5	10.0								10	76.3			
2	11.5	12.0									51.3			
3	13.5	14.0		VERY SOFT GRAY CLAY W/SAND							98.4			
4	15.5	16.0												
5	17.5	18.0												
6	19.5	20.0		LOOSE GRAY SILTY FINE SAND W/SHELL										
7	22.5	23.0	23.0											
			.0											
			8.0											
			14.5	Auger Boring Number B-36										
			14.5	WATER										
1	9.5	10.0								10	70.7			
2	11.5	12.0									48.3			
3	13.5	14.0		VERY SOFT GRAY SANDY CLAY W/SHELL										
4	15.5	16.0												
5	17.5	18.0												
6	19.5	20.0		VERY SOFT GRAY SANDY CLAY										
7	22.5	23.0	23.0	LOOSE GRAY CLAYEY FINE SAND										



"140 lb. hammer dropped 30 in.
on 2 in. splitspoon sampler
after first being seated 6 in."

REMARKS:

Predominant type bold. Modifying type light.

GORE ENGINEERING, INC.

J#5449A

Soil and Foundation Investigations
Metairie, Louisiana

Boring No. B-37

LOG OF BORING AND TEST RESULTS

Date of Boring: 13 Sep 1995

Project: SAND SOURCE BORINGS - ISLE DERNIERES RESTORATION PROJECT - EAST AND TRINITY ISLANDS - TERREBONNE PARISH, LOUISIANA
 FOR: STATE OF LOUISIANA - DEPARTMENT OF NATURAL RESOURCES - COASTAL RESTORATION DIVISION - BATON ROUGE, LOUISIANA
 T. BAKER SMITH & SON, INC. - CONSULTING ENGINEERS - HOUMA, LOUISIANA
 Recorded By: D. A. Hill

Sample No.	SAMPLE Depth in Feet		STRATUM Depth in feet	VISUAL CLASSIFICATION	*Blows per Foot	Symbol Log	Scale (ft)	UNCONFINED COMP. (qu)	WATER CONTENT (percent)	UNIT WEIGHT (lbs./cu.ft.)		ATTERBERG LIMITS			
	From	To										DRY	WET	L.L.	P.L.
			.0	WATER											
1	10.5	11.0	9.0	LOOSE SOFT GRAY CLAYEY FINE SAND W/SHELL						10	47.8				
2	12.5	13.0									32.1				
3	14.5	15.0	14.0	LOOSE GRAY FINE SAND							30.6				
4	16.5	17.0									23.3				
5	18.5	19.0									26.0				
6	20.5	21.0									30.8				
7	23.5	24.0	24.0								31.0				
				Boring Number B-38											
			.0	WATER											
1	9.5	10.0	8.0	VERY SOFT GRAY CLAY W/SHELL						10	43.9				
2	11.5	12.0	11.0	LOOSE GRAY FINE SAND							32.0				
3	13.5	14.0	12.0								33.2				
4	15.5	16.0									32.0				
5	17.5	18.0		LOOSE GRAY SILTY FINE SAND							27.2				
6	19.5	20.0									33.1				
7	22.5	23.0	23.0								24.7				
				Boring Number B-39											
			.0	WATER											
1	9.5	10.0	8.0	VERY SOFT GRAY SANDY CLAY & SHELL						10	50.4				
2	11.5	12.0									52.0				
3	13.5	14.0	12.5								73.4				
4	15.5	16.0									90.3				
5	17.5	18.0		VERY SOFT GRAY CLAY W/SAND LENSES & LAYERS							93.2				
6	19.5	20.0									95.9				
7	22.5	23.0	23.0								94.2				



CLAY



SILT



SAND



ORGANIC

*10 lb. hammer dropped 30 in.
on 2 in. split spoon sampler
after first being seated 6 in.

REMARKS:

Predominant type bold. Modifying type light.

GORE ENGINEERING, INC.

J#5449A

Soil and Foundation Investigations
Metairie, Louisiana

Date of Boring: 13 Sep 1995

Boring No. B-40

LOG OF BORING AND TEST RESULTS

Project: SAND SOURCE BORINGS - ISLE DERNIERES RESTORATION PROJECT - EAST AND TRINITY ISLANDS - TERREBONNE PARISH, LOUISIANA
 FOR: STATE OF LOUISIANA - DEPARTMENT OF NATURAL RESOURCES - COASTAL RESTORATION DIVISION - BATON ROUGE, LOUISIANA
 T. BAKER SMITH & SON, INC. - CONSULTING ENGINEERS - HOUMA, LOUISIANA
 Recorded By: D. A. Hill

Sample No.	SAMPLE Depth in Feet		STRATON Depth in feet	VISUAL CLASSIFICATION	*Blows per Foot	Symbol Log	Scale (ft)	UNCONFINED COMP. (qu) (lbs/sq.ft)	WATER CONTENT (percent)	UNIT WEIGHT (lbs./cu.ft.)		ATTERBERG LIMITS		
	From	To								DRY	WET	L.L.	P.L.	P.I.
			.0	WATER										
1	9.5	10.0	8.0	VERY SOFT GRAY CLAY W/SAND						10	75.7			
2	11.5	12.0									78.0			
3	13.5	14.0									45.4			
4	15.5	16.0									60.2			
5	17.5	18.0	17.0	VERY SOFT GRAY SANDY CLAY							39.7			
6	19.5	20.0	19.0	LOOSE GRAY CLAYEY FINE SAND						20	27.3			
7	22.5	23.0	23.0								24.1			
				Auger Boring Number B-41										
			.0	WATER										
1	9.5	10.0	8.0	VERY SOFT GRAY SANDY CLAY						10	40.0			
2	11.5	12.0									31.6			
3	13.5	14.0	13.0									32.3		
4	15.5	16.0									19.2			
5	17.5	18.0		LOOSE GRAY SILTY FINE SAND							26.5			
6	19.5	20.0								20	30.4			
7	22.5	23.0	23.0								30.9			
				Auger Boring Number B-42										
			.0	WATER										
1	10.5	11.0	9.0	LOOSE GRAY SANDY SILT (W/MUCH WOOD & 12.5-13.0')						10	28.3			
2	12.5	13.0									237.9			
3	15.0	15.5	14.0	LOSOE TO MEDIUM DENSE GRAY SILTY FINE SAND							36.0			
4	17.0	17.5									28.2			
5	19.0	19.5	18.0	VERY SOFT GRAY CLAY W/SAND LENSES & LAYERS						20	43.4			
6	21.0	21.5									28.8			
7	24.5	25.0	19.5	LOOSE GRAY SILTY FINE SAND							34.2			
			25.0											



*140 lb. hammer dropped 30 in.

on 2 in. splitspoon sampler

after first being seated 6 in.

REMARKS:

Predominant type bold. Modifying type light.

GORE ENGINEERING, INC.

J#544

Soil and Foundation Investigations
Metairie, Louisiana

Boring No. B-43

Date of Boring: 7 Sep 19

LOG OF BORING AND TEST RESULTS

Project: SAND SOURCE BORINGS - ISLE DERNIERES RESTORATION PROJECT - EAST AND TRINITY ISLANDS - TERREBONNE PARISH, LOUISIANA
 FOR: STATE OF LOUISIANA - DEPARTMENT OF NATURAL RESOURCES - COASTAL RESTORATION DIVISION - BATON ROUGE, LOUISIANA
 T. BAKER SMITH & SON, INC. - CONSULTING ENGINEERS - HOUMA, LOUISIANA

Recorded By: D. A. Hill

Sample No.	SAMPLE Depth in Feet		STRATUM Depth in feet	VISUAL CLASSIFICATION	*Blows per Foot	Symbol Log	Scale (ft)	UNCONFINED COMP. (qu)	WATER CONTENT (percent)	UNIT WEIGHT (lbs./cu.ft.)		ATTERBERG LIMITS		
	From	To								DRY	WET	L.L.	P.L.	P.I.
			.0	WATER										
1	10.5	11.0	9.0	VERY SOFT GRAY CLAY W/SAND		////	10		98.7					
2	12.5	13.0	11.5			●●●●				32.0				
3	14.5	15.0				●●●●				23.8				
4	16.5	17.0		LOOSE GRAY FINE SAND W/SHELL FRAGMENTS		●●●●				23.4				
5	18.5	19.0				●●●●				33.4				
6	20.5	21.0				●●●●	20			23.6				
7	24.5	25.0	24.0	VERY SOFT GRAY CLAY W/SAND LAYERS & SHELL FRAGMENTS		////			49.3					
			25.0											
				Auger Boring Number B-44				0						
			.0	WATER										
1	11.5	12.0	10.0					10						
2	13.5	14.0		VERY SOFT GRAY CLAY W/SAND & SHELL		////			99.7					
3	15.5	16.0				●●●●			73.1					
4	17.5	18.0	17.0			●●●●			67.1					
5	19.5	20.0		LOOSE GRAY SILTY FINE SAND W/SHELL FRAGMENTS & SOME CLAY		●●●●	20		29.5					
6	21.5	22.0	21.0			●●●●			32.2					
7	24.5	25.0	25.0	VERY SOFT GRAY CLAY W/SAND LENSES		////			58.3					
									92.5					
				Auger Boring Number B-45				0						
			.0	WATER										
1	11.5	12.0	10.0						10					
2	13.5	14.0		VERY SOFT GRAY CLAY W/SAND LENSES		////			55.7					
3	15.5	16.0	15.0			●●●●			77.3					
4	17.5	18.0	17.0	LOOSE GRAY SANDY SILT W/CLAY LENSES		●●●●			26.2					
5	19.5	20.0	19.0	VERY SOFT GRAY CLAY W/SAND LENSES		●●●●			73.8					
6	21.5	22.0	20.0	LOOSE GRAY SANDY SILT W/CLAY LAYERS		●●●●	20		25.7					
7	24.5	25.0	25.0	LOOSE GRAY SILTY FINE SAND W/SHELL		●●●●			15.6					
									18.1					



CLAY



SILT



SAND



ORGANIC

*140 lb. hammer dropped 30 in.
on 2 in. splitspoon sampler

REMARKS:

Predominant type bold. Modifying type light.

Fig. 1

GORE ENGINEERING, INC.

J#544

Soil and Foundation Investigations
Metairie, Louisiana

Boring No. B-46

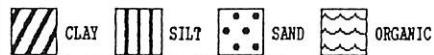
LOG OF BORING AND TEST RESULTS

Date of Boring: 7 Sep 19

Project: SAND SOURCE BORINGS - ISLE DERNIERES RESTORATION PROJECT - EAST AND TRINITY ISLANDS - TERREBONNE PARISH, LOUISIANA
 FOR: STATE OF LOUISIANA - DEPARTMENT OF NATURAL RESOURCES - COASTAL RESTORATION DIVISION - BATON ROUGE, LOUISIANA
 T. BAKER SMITH & SON, INC. - CONSULTING ENGINEERS - HOUMA, LOUISIANA

Recorded By: D. A. HII

Sample No.	SAMPLE Depth in Feet		STRATUM Depth in feet	VISUAL CLASSIFICATION	*Blows per Foot	Symbol	Scale (ft)	UNCONFINED COMP. (qu) (lbs/sq.ft)	WATER CONTENT (percent)	UNIT WEIGHT (lbs./cu.ft.)		ATTERBERG LIMITS		
	From	To								DRY	WET	L.L.	P.L.	P.I.
			.0	WATER										
1	11.0	11.5	9.5	VERY SOFT GRAY CLAY W/SILT		/ \ / \ /		10		94.0				
2	13.0	13.5	14.0			/ \ / \ /				95.9				
3	15.0	15.5		LOOSE GRAY SILTY FINE SAND W/SHELL		• • • •				33.8				
4	17.0	17.5	18.5			• • • •				31.3				
5	19.0	19.5	20.0	VERY SOFT GRAY CLAY W/SAND		/ \ / \ /		20		34.6				
6	21.0	21.5		LOOSE GRAY SILTY FINE SAND W/SHELL		• • • •				23.0				
7	24.5	25.0	25.0			• • • •				23.2				
Auger Boring Number B-47														0
			.0	WATER										
1	10.5	11.0	9.0	LOOSE GRAY SANDY SILT		• • • •		10		34.1				
2	12.5	13.0	12.0	VERY SOFT GRAY CLAY W/SAND		/ \ / \ /				58.8				
3	14.5	15.0	14.0			• • • •				30.4				
4	16.5	17.0				• • • •				31.6				
5	18.5	19.0	18.5	LOOSE GRAY SILTY FINE SAND W/SHELL		• • • •				31.0				
6	20.5	21.0	21.0	FRAGMENTS		• • • •		20		27.7				
7	24.5	25.0	25.0			• • • •				30.5				
Auger Boring Number B-48														0
			.0	WATER										
1	9.5	10.0	8.0	VERY SOFT GRAY CLAY W/SAND LENSES		/ \ / \ /		10		98.7				
2	11.5	12.0	13.0			/ \ / \ /				109.7				
3	13.5	14.0				• • • •				28.8				
4	15.5	16.0				• • • •				35.7				
5	17.5	18.0	17.5	LOOSE GRAY SILTY FINE SAND W/SHELL		• • • •				23.5				
6	19.5	20.0	19.5	FRAGMENTS		• • • •		20		29.4				
7	22.5	23.0	23.0			• • • •				32.9				



Predominant type bold. Modifying type light.

"140 lb. hammer dropped 30 in.
on 2 in. split-spoon sampler
after first being seated 6 in."

REMARKS:

GORE ENGINEERING, INC.

Soil and Foundation Investigations
Metairie, Louisiana

J-54

Boring No. B-49

LOG OF BORING AND TEST RESULTS

Date of Boring: 8 Sep 1

Project: SAND SOURCE BORINGS - ISLE DERNIERES RESTORATION PROJECT - EAST AND TRINITY ISLANDS - TERREBONNE PARISH, LOUISIANA

FOR: STATE OF LOUISIANA - DEPARTMENT OF NATURAL RESOURCES - COASTAL RESTORATION DIVISION - BATON ROUGE, LOUISIANA

T. BAKER SMITH & SON, INC. - CONSULTING ENGINEERS - HOUMA, LOUISIANA

Recorded By: D. A. HI

Sample No.	SAMPLE Depth in Feet		STRATUM Depth in feet	VISUAL CLASSIFICATION	•Blows per Foot	Symbol Log	Scale (ft)	UNCONFINED COMP. (qu) (lbs/sq.ft)	WATER CONTENT (percent)	UNIT WEIGHT (lbs./cu.ft.)		ATTERBERG LIMITS		
	From	To								DRY	WET	L.L.	P.L.	P.I.
			.0	WATER										
			9.0							10				
1	10.5	11.0									39.1			
2	12.5	13.0									24.2			
3	14.5	15.0		LOOSE GRAY SILTY FINE SAND W/CLAY & SHELL							35.6			
4	16.5	17.0									22.7			
5	18.5	19.0									25.7			
6	20.5	21.0									30.7			
7	24.5	25.0	22.5	VERY SOFT GRAY CLAY W/SAND LENSES & LAYERS							58.2			
			25.0											
				Auger Boring Number B-50						0				
			.0	WATER										
			10.0							10				
1	11.5	12.0		VERY SOFT GRAY CLAY W/SAND							57.5			
2	13.5	14.0									85.0			
3	15.5	16.0		LOOSE GRAY SILTY FINE SAND W/CLAY & SHELL							30.6			
4	17.5	18.0									30.0			
5	19.5	20.0		VERY SOFT GRAY SANDY CLAY						20		34.8		
6	21.5	22.0		LOOSE GRAY SILTY FINE SAND W/SHELL							27.6			
7	24.5	25.0	23.0	VERY SOFT GRAY CLAY W/SHELL								87.2		
			25.0											
				Auger Boring Number B-51						0				
			.0	WATER										
			10.0							10				
1	11.5	12.0		VERY SOFT GRAY CLAY W/SAND							74.3			
2	13.5	14.0									39.8			
3	15.5	16.0		VERY SOFT GRAY SANDY CLAY							34.5			
4	17.5	18.0		LOOSE GRAY SILTY FINE SAND W/SHELL							18.4			
5	19.5	20.0									28.9			
6	21.5	22.0									23.0			
7	24.5	25.0	25.0									19.5		

"140 lb. hammer dropped 30 in.
on 2 in. split spoon sampler
after first being seated 6 in."

REMARKS:

Predominant type bold. Modifying type light.

GORE ENGINEERING, INC.

J#5449A

Soil and Foundation Investigations
Metairie, Louisiana

Date of Boring: 8 Sep 1995

Boring No. B-55

Project: SAND SOURCE BORINGS - ISLE DERNIERES RESTORATION PROJECT - EAST AND TRINITY ISLANDS - TERREBONNE PARISH, LOUISIANA
 FOR: STATE OF LOUISIANA - DEPARTMENT OF NATURAL RESOURCES - COASTAL RESTORATION DIVISION - BATON ROUGE, LOUISIANA
 T. BAKER SMITH & SON, INC. - CONSULTING ENGINEERS - HOUMA, LOUISIANA

Recorded By: D. A. Hill

LOG OF BORING AND TEST RESULTS

Sample No.	SAMPLE Depth in Feet		STRATUM Depth in feet	VISUAL CLASSIFICATION	*Blows per Foot	Symbol	Scale (ft)	UNCONFINED COMP. (q _u) (lbs/sq.ft.)	WATER Content (percent)	UNIT WEIGHT (lbs./cu.ft.)		ATTERBERG LIMITS		
	From	To								DRY	WET	L.L.	P.L.	P.I.
			.0	WATER										
1	7.5	8.0	6.0	LOOSE GRAY FINE SAND						25.0				
2	9.5	10.0								33.4				
3	11.5	12.0	11.5	VERY SOFT GRAY CLAY W/SAND						37.3				
4	13.5	14.0	13.0	LOOSE GRAY FINE SAND W/SHELL						24.8				
5	15.5	16.0								24.0				
6	17.5	18.0	17.0	LOOSE GRAY SILTY FINE SAND						25.8				
7	20.5	21.0	21.0							25.3				
				Auger Boring Number B-56										
			.0	WATER										
1	8.5	9.0	7.0	LOOSE TO MEDIUM DENSE GRAY FINE SAND W/SHELL						27.2				
2	10.5	11.0								25.3				
3	12.5	13.0	12.0	VERY SOFT GRAY CLAY W/SAND LAYERS						43.4				
4	14.5	15.0	14.0	LOOSE GRAY FINE SAND W/SHELL						24.8				
5	16.5	17.0								29.3				
6	18.5	19.0	17.5	LOOSE GRAY SILTY FINE SAND						27.1				
7	21.5	22.0	22.0							29.3				
				Auger Boring Number B-57										
			.0	WATER										
1	7.5	8.0	6.0	SOFT GRAY SANDY CLAY W/SHELLS & WOOD						45.4				
2	9.5	10.0								25.7				
3	11.5	12.0	9.0	LOOSE GRAY SILTY FINE SAND						25.2				
4	13.5	14.0								26.8				
5	15.5	16.0								32.0				
6	17.5	18.0								27.9				
7	20.5	21.0	21.0							23.4				



CLAY



SILT



SAND



ORGANIC

*140 lb. hammer dropped 30 in.
 on 2 in. split spoon sampler
 after first being seated 6 in.

REMARKS:

Predominant type bold. Modifying type light.

GORE ENGINEERING, INC.

Soil and Foundation Investigations
Metairie, Louisiana

J#5449A

Boring No. B-58

LOG OF BORING AND TEST RESULTS

Date of Boring: 11 Sep 1995

Project: SAND SOURCE BORINGS - ISLE DERNIERES RESTORATION PROJECT - EAST AND TRINITY ISLANDS - TERREBONNE PARISH, LOUISIANA
 FOR: STATE OF LOUISIANA - DEPARTMENT OF NATURAL RESOURCES - COASTAL RESTORATION DIVISION - BATON ROUGE, LOUISIANA
 T. BAKER SMITH & SON, INC. - CONSULTING ENGINEERS - HOUMA, LOUISIANA
 Recorded By: D. A. Hill

Sample No.	SAMPLE Depth in Feet		STRATUM Depth in feet	VISUAL CLASSIFICATION	*Blows per Foot	Symbol Log	Scale (ft)	UNCONFINED COMPL. (qu) (lbs/sq.ft)	WATER CONTENT (percent)	UNIT WEIGHT (lbs./cu.ft.)		ATTERBERG LIMITS		
	From	To								DRY	WET	L.L.	P.L.	P.I.
			.0	WATER										
1	9.5	10.0	8.0							45.4				
2	11.5	12.0		VERY SOFT GRAY CLAY W/SAND LENSES & LAYERS						57.2				
3	13.5	14.0								72.4				
4	15.5	16.0	15.0							36.5				
5	17.5	18.0		LOOSE GRAY SILTY FINE SAND W/CLAY LAYERS						33.6				
6	19.5	20.0								31.6				
7	22.5	23.0	22.0	SOFT GRAY CLAY W/SAND LENSES						66.2				
			23.0											
Auger Boring Number B-59														
			.0	WATER										
1	10.0	10.5	8.5							35.5				
2	12.0	12.5		LOOSE GRAY SANDY SILT W/SHELL & CLAY						24.6				
3	14.0	14.5	13.0							67.3				
4	16.0	16.5	15.5	SOFT GRAY CLAY W/SAND LENSES						22.8				
5	18.0	18.5		LOOSE GRAY FINE SAND W/SHELL						17.1				
6	20.0	20.5	19.0							24.4				
7	23.5	24.0	24.0	LOOSE GRAY SILTY FINE SAND						18.9				
Auger Boring Number B-60														
			.0	WATER										
1	10.5	11.0	9.0							45.2				
2	12.5	13.0		VERY SOFT GRAY SANDY CLAY						48.8				
3	14.5	15.0	14.0							23.1				
4	16.5	17.0		LOOSE GRAY CLAYEY FINE SAND W/CLAY LAYERS						23.0				
5	18.5	19.0								20.8				
6	20.5	21.0								30.4				
7	23.5	24.0	24.0							21.8				



*140 lb. hammer dropped 30 in.
on 2 in. split spoon sampler
after first being seated 6 in.

REMARKS:

Predominant type bold. Modifying type light.

GORE ENGINEERING, INC.

J#5449A

Soil and Foundation Investigations
Metairie, Louisiana

Boring No. B-61

LOG OF BORING AND TEST RESULTS

Date of Boring: 12 Sep 1995

Project: SAND SOURCE BORINGS - ISLE DERNIERES RESTORATION PROJECT - EAST AND TRINITY ISLANDS - TERREBONNE PARISH, LOUISIANA
FOR: STATE OF LOUISIANA - DEPARTMENT OF NATURAL RESOURCES - COASTAL RESTORATION DIVISION - BATON ROUGE, LOUISIANA
T. BAKER SMITH & SON, INC. - CONSULTING ENGINEERS - HOUMA, LOUISIANA
Recorded By: D. A. HILL

Sample No.	SAMPLE Depth in Feet		STRATUM Depth in feet	VISUAL CLASSIFICATION	*Blows per Foot	Symbol	Scale (ft)	UNCONFINED COMP. (qu)	WATER CONTENT (percent)	UNIT WEIGHT (lbs./cu.ft.)		ATTERBERG LIMITS		
	From	To								DRY	WET	L.L.	P.L.	P.I.
			.0	WATER										
1	7.5	8.0	6.0	LOOSE GRAY FINE SAND W/SHELL W/SOME CLAY		[dots]	10			32.1				
2	9.5	10.0								31.3				
3	11.5	12.0	10.0	LOOSE GRAY SILTY FINE SAND W/CLAY LAYERS		[diagonal lines]				46.7				
4	13.5	14.0								28.4				
5	15.5	16.0	16.5	LOOSE GRAY CLAYEY FINE SAND		[diagonal lines]	20			23.8				
6	17.5	18.0								37.3				
7	20.5	21.0	21.0							27.8				
				Auger Boring Number B-62										
			.0	WATER										
1	9.5	10.0	8.0	VERY SOFT GRAY CLAY W/SAND		[diagonal lines]	10			68.5				
2	11.5	12.0								60.6				
3	13.5	14.0	15.0	LOOSE GRAY SILTY FINE SAND W/SHELL		[diagonal lines]	20			62.8				
4	15.5	16.0								28.6				
5	17.5	18.0	19.5							28.6				
6	19.5	20.0	20.0							29.6				
7	22.5	23.0	23.0							25.7				
				Auger Boring Number B-63										
			.0	WATER										
1	8.5	9.0	7.0	VERY SOFT GRAY CLAY W/SAND & SHELL		[diagonal lines]	10			39.6				
2	10.5	11.0								53.8				
3	12.5	13.0	14.5	(W/SAND LAYERS @ 14.5-15.0')						104.4				
4	14.5	15.0								85.8				
5	16.5	17.0	16.0	LOOSE GRAY SILTY FINE SAND		[diagonal lines]				23.6				
6	18.5	19.0	18.0	LOOSE GRAY CLAYEY FINE SAND W/CLAY LAYERS		[diagonal lines]	20			52.3				
7	21.5	22.0	22.0							48.9				

 CLAY  SILT  SAND  ORGANIC

*140 lb. hammer dropped 30 in.
on 2 in. split-spoon sampler
after first being seated 6 in.

REMARKS:

Predominant type bold. Modifying type light.

GORE ENGINEERING, INC.

J#5449

Soil and Foundation Investigations
Metairie, Louisiana

Boring No. B-64

Date of Boring: 12 Sep 199

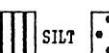
LOG OF BORING AND TEST RESULTS

Project: SAND SOURCE BORINGS - ISLE DERNIERES RESTORATION PROJECT - EAST AND TRINITY ISLANDS - TERREBONNE PARISH, LOUISIANA
FOR: STATE OF LOUISIANA - DEPARTMENT OF NATURAL RESOURCES - COASTAL RESTORATION DIVISION - BATON ROUGE, LOUISIANA
T. BAKER SMITH & SON, INC. - CONSULTING ENGINEERS - HOUMA, LOUISIANA
Recorded By: D. A. HILL

Sample No.	SAMPLE Depth in Feet		STRATUM Depth in feet	VISUAL CLASSIFICATION	*Blows per Foot	Symbol Log	Scale (ft)	UNCONFINED COMP. (qu) (lbs./sq.ft.)	WATER CONTENT (percent)	UNIT WEIGHT (lbs./cu.ft.)		ATTERBERG LIMITS		
	From	To								DRY	WET	L.L.	P.L.	P.I.
			.0	WATER										
1	5.5	6.0	4.0	LOOSE GRAY FINE SAND W/SHELL		●●●●				23.7				
2	7.5	8.0								31.1				
3	9.5	10.0								22.1				
4	11.5	12.0								34.6				
5	13.5	14.0	12.0	VERY SOFT GRAY CLAY W/SAND LENSES & LAYERS		/ / / /				63.1				
6	15.5	16.0	14.0	LOOSE GRAY SILTY FINE SAND		●●●●●●				29.8				
7	18.5	19.0	19.0							35.0				
				Auger Boring Number B-65										
			.0	WATER										
1	9.5	10.0	8.0											
2	11.5	12.0												
3	13.5	14.0		VERY SOFT GRAY CLAY W/SAND LENSES & LAYERS		/ / / /	10			95.3				
4	15.5	16.0								93.1				
5	17.5	18.0	17.0	LOOSE GRAY SILTY FINE SAND W/SHELL		■ ■ ■ ■				89.4				
6	19.5	20.0	19.0	LOOSE GRAY CLAYEY FINE SAND W/CLAY LAYERS		/ / / /	20			79.7				
7	22.5	23.0	23.0											
				Auger Boring Number B-66										
			.0	WATER										
1	10.5	11.0	9.0											
2	12.5	13.0												
3	14.5	15.0		VERY SOFT GRAY CLAY W/SAND		/ / / /	10			59.5				
4	16.5	17.0	16.0							84.3				
5	18.5	19.0	18.0	LOOSE GRAY SILTY FINE SAND W/SHELL		■ ■ ■ ■				74.8				
6	20.5	21.0												
7	23.5	24.0	23.0	VERY SOFT GRAY CLAY W/SAND LENSES		/ / / /	20			27.3				
			25.0	LOOSE GRAY FINE SAND W/SHELL		●●●●				53.9				
										56.2				
										20.5				



CLAY



SILT



SAND



ORGANIC

*140 lb. hammer dropped 30 in.
on 2 in. splitspoon sampler
after first being seated 6 in.

REMARKS:

Predominant type bold. Modifying type light.

GORE ENGINEERING, INC.

Soil and Foundation Investigations
Metairie, Louisiana

J#5449A

Boring No. b-67

LOG OF BORING AND TEST RESULTS

Date of Boring: 12 Sep 1995

Project: SAND SOURCE BORINGS - ISLE DERNIERES RESTORATION PROJECT - EAST AND TRINITY ISLANDS - TERREBONNE PARISH, LOUISIANA
 FOR: STATE OF LOUISIANA - DEPARTMENT OF NATURAL RESOURCES - COASTAL RESTORATION DIVISION - BATON ROUGE, LOUISIANA
 T. BAKER SMITH & SON, INC. - CONSULTING ENGINEERS - HOUMA, LOUISIANA

Recorded By: D. A. HILL

Sample No.	SAMPLE Depth in Feet		STRATUM Depth in feet	VISUAL CLASSIFICATION	*Blows per Foot	Symbol Log	Scale (ft)	UNCONFINED COMP. (qu) (lbs/sq.ft)	WATER CONTENT (percent)	UNIT WEIGHT (lbs./cu.ft.)		ATTERBERG LIMITS		
	From	To								DRY	WET	L.L.	P.L.	P.I.
			.0	WATER										
1	9.5	10.0	8.0							36.5				
2	11.5	12.0		LOOSE GRAY CLAYEY FINE SAND W/SHELL			10			42.4				
3	13.5	14.0	13.0							22.9				
4	15.5	16.0								20.9				
5	17.5	18.0		LOOSE GRAY FINE SAND W/CLAY						17.4				
6	19.5	20.0					20			22.0				
7	22.5	23.0	23.0							20.1				
				Auger Boring Number B-68										
			.0	WATER										
1	9.5	10.0	8.0				10			46.0				
2	11.5	12.0		VERY SOFT GRAY CLAY						68.1				
3	13.5	14.0	13.0							28.5				
4	15.5	16.0	15.0	LOOSE GRAY SILTY FINE SAND						55.5				
5	17.5	18.0								71.2				
6	19.5	20.0		VERY SOFT GRAY CLAY W/SAND LENSES			20			50.6				
7	22.5	23.0	22.0							25.0				
			23.0	LOOSE GRAY SILTY FINE SAND W/CLAY										
				Auger Boring Number B-69										
			.0	WATER										
1	10.5	11.0	9.0				10			36.9				
2	12.5	13.0		LOOSE GRAY CLAYEY FINE SAND W/SILT & WOOD						46.9				
3	14.5	15.0	14.0							24.0				
4	16.5	17.0		LOOSE GRAY SILTY FINE SAND W/CLAY						21.8				
5	18.5	19.0					20			34.0				
6	20.5	21.0	19.5							20.7				
7	23.5	24.0	24.0	LOOSE GRAY FINE SAND						20.6				

*140 lb. hammer dropped 30 in.
on 2 in. split spoon sampler
after first being sealed 6 in.

REMARKS:

Predominant type bold. Modifying type light.

GORE ENGINEERING, INC.

J#5449A

Soil and Foundation Investigations
Metairie, Louisiana

Boring No. B-70

LOG OF BORING AND TEST RESULTS

Date of Boring: 12 Sep 1995

Project: SAND SOURCE BORINGS - ISLE DERNIERES RESTORATION PROJECT - EAST AND TRINITY ISLANDS - TERREBONNE PARISH, LOUISIANA
 FOR: STATE OF LOUISIANA - DEPARTMENT OF NATURAL RESOURCES - COASTAL RESTORATION DIVISION - BATON ROUGE, LOUISIANA
 T. BAKER SMITH & SON, INC. - CONSULTING ENGINEERS - HOUma, LOUISIANA
 Recorded By: D. A. Hill

Sample No.	SAMPLE Depth in Feet		STRATUM Depth in feet	VISUAL CLASSIFICATION	*Blows per Foot	Symbol Log	Scale (ft)	UNCONFINED COMPL. (qu) (lbs/sq.ft)	WATER CONTENT (percent)	UNIT WEIGHT (lbs./cu.ft.)		ATTERBERG LIMITS		
	From	To								DRY	WET	L.L.	P.L.	P.I.
			.0											
				WATER										
1	9.5	10.0	8.0	VERY SOFT GRAY SANDY CLAY					10	48.8				
2	11.5	12.0								32.4				
3	13.5	14.0	12.0							57.0				
4	15.5	16.0		LOOSE GRAY CLAYEY FINE SAND						31.7				
5	17.5	18.0								20.9				
6	19.5	20.0	19.0	LOOSE GRAY SILTY FINE SAND					20	27.2				
7	22.5	23.0								25.0				
			23.0											
				Auger Boring Number B-71										
			.0											
				WATER										
1	11.5	12.0	10.0						10					
2	13.5	14.0		VERY SOFT GRAY CLAY W/SAND LAYERS & SHELL						47.8				
3	15.5	16.0								39.3				
4	17.5	18.0								31.0				
5	19.5	20.0	20.0	LOOSE GRAY CLAYEY FINE SAND					20	35.3				
6	21.5	22.0								23.9				
7	24.5	25.0								27.5				
			25.0							27.9				

 CLAY  SILT  SAND  ORGANIC

 *140 lb. hammer dropped 30 in.
 on 2 in. split spoon sampler
 after first being seated 6 in.

REMARKS:

Predominant type bold. Modifying type light.