













**LEGEND AND NOTES FOR
LOG OF BORING AND TEST RESULTS**

PP	Pocket penetrometer: Resistance in tons per square foot					
SPT	Standard Penetration Test: Number of blows of a 140-lb hammer dropped 30 inches required to drive 2-in. O.D., 1.4-in. I.D. sampler a distance of 1 foot into the soil after first seating it 6 inches					
SPLR	Type of Sampling	 Shelby	 SPT	 Auger	 No sample	
SYMBOL	Clay	Silt	Sand	Peat/Humus	Shells	Stone/Gravel
						
	Predominant type shown heavy; Modifying type shown light					
USC	Unified Soil Classification					
DENSITY	Unit weight in pounds per cubic foot					
SHEAR TESTS						
	TYPE					
	UC	Unconfined compression shear				
	OB	Unconsolidated undrained triaxial compression shear on one specimen confined at the approximate overburden pressure				
	UU	Unconsolidated undrained triaxial compression shear				
	CU	Consolidated undrained triaxial compression shear				
	DS	Direct shear				
	ϕ	Angle of internal friction in degrees				
	c	Cohesion in pounds per square foot				
ATTERBERG LIMITS						
	LL	Liquid Limit				
	PL	Plastic Limit				
	PI	Plasticity Index				
OTHER TESTS						
	CON	Consolidation				
	PD	Particle size distribution (sieve and/or hydrometer)				
	k	Coefficient of permeability in centimeters per second				
	SP	Swelling pressure in pounds per square foot				

Other laboratory test results reported on separate figures

GENERAL NOTES

- (1) If a ground water depth is shown on the boring log, these observations were made at the time of drilling and were measured below the existing ground surface. These observations are shown on the boring logs. However, ground water levels may vary due to seasonal fluctuations and other factors. If important to construction, the depth to ground water should be determined by those persons responsible for construction immediately prior to beginning work.
- (2) While the individual logs of borings are considered to be representative of subsurface conditions at their respective locations on the dates shown, it is not warranted that they are representative of subsurface conditions at other locations and times.

EUSTIS ENGINEERING COMPANY, INC. **LOG OF BORING AND TEST RESULTS**
 STATE OF LOUISIANA
 COASTAL RESTORATION AND MANAGEMENT
 MISSISSIPPI RIVER SEDIMENT DELIVERY SYSTEM
 BAYOU DUPONT, LOUISIANA

(Sheet 1 of 1)



Scale In Feet	PP	SPT	S P L R	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests			Atterberg Limits			Misc tests	Other Tests
									Dry	Wet	Type	φ	C	LL	PL	PI		
0		1	X	Loose gray clayey silt	ML	1	0'-16"	33										
		5	X	Loose gray sandy silt	ML	2	2'-3'6"											
						3	5'-6'											
						4	6'-7'	25	98	122	OB	--	656					
						5	7'-8'											
10				Very soft gray clay	CH	6	11'-12'	56	67	104	UC	--	114	65	23	42		
				Loose to medium dense gray silty sand w/clay layers	SM	7	13'-14'											
				Very soft gray clay w/silty sand lenses & layers	CH	8	15'-16'											
						9	16'-17'											
20	0.25			Loose brown & gray sandy silt w/clay	ML	10	19'-20'	47	74	109	OB	0	75	72	24	48		PD
						11	20'-21'											
	0.25			Very soft to soft brown & gray clay w/silt lenses & pockets	CH	12	23'-24'											
	0.25					13	25'-26'											
	0.25					14	27'-28'	43	77	111	UC	--	139	70	27	43		
	0.25					15	29'-30'											
	0.25			Medium compact gray sandy silt	ML	16	31'-32'											
	0.50			Soft brown & gray clay w/silt lenses & pockets	CH	17	32'-34'	55	66	102	UC	--	503	64	22	42		PD
	0.25					18	35'-36'											
	0.25					19	37'-38'											
	0.25					20	39'-40'											

Ground Elev.: -18.3 Datum: NAVD 86r. Water Depth: N/A Job No.: 19183 Date Drilled: 3/01/06 Boring: 1 Refer to "Legends & Notes"

Comments: Estimated water surface at el 2.7.
 N 29° 39.083'; W 89° 57.560'



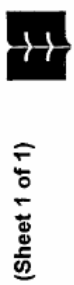
STATE OF LOUISIANA
 COASTAL RESTORATION AND MANAGEMENT
 MISSISSIPPI RIVER SEDIMENT DELIVERY SYSTEM
 BAYOU DUPONT, LOUISIANA

Ground Elev.: -33.3 **Datum:** NAVD 88 **Gr. Water Depth:** N/A **Job No.:** 19183 **Date Drilled:** 3/01/06 **Boring:** 2 **Refer to "Legends & Notes"**

Scale In Feet	PP	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests			Atterberg Limits			Other Tests
										Dry	Wet	Type	φ	C	LL	PL	PI	
0					Very soft gray silty clay	CL	1	0-2	30						50	16	34	
	0.25				Very soft gray clay w/silt lenses & pockets	CH	2	3-4	37	85	116	UC	--	75	40	17	23	
	0.25				Loose gray clayey silt	ML	3	5-6										
	0.25				Very soft gray silty clay	CL	4	7-8										
10					Loose gray sandy silt	SM	5	9-10	53	70	106	OB	0	69	58	22	36	
					Loose gray silty fine sand w/clay layers	SM	6	11-12	56									
					Very soft gray clay w/silt pockets & lenses	CH	7	13-14	70									
					Loose gray silty sand w/clay layers	SM	8	15-16										
20					Very soft gray clay w/silt pockets & lenses	CH	9	17-18										
					Loose gray silty sand w/clay layers	SM	10	19-20										
							11	21-22	43	76	108	UC	--	81				
							12	22-24										
							13	25-26										
							14	26-28										
							15	28-30										
							16	30-32										
							17	32-34	22	101	122	OB	0	1107				
							18	34-36										
					Very soft gray silty clay w/sand layers	CL	19	36-38										
	0.50				Medium stiff gray silty clay w/silt lenses	CL	20	38-40										

Comments: Estimated water surface at el 2.7.
 N 29° 39.584'; W 89° 57.628'

EUSTIS ENGINEERING COMPANY, INC. **LOG OF BORING AND TEST RESULTS**
 STATE OF LOUISIANA
 COASTAL RESTORATION AND MANAGEMENT
 MISSISSIPPI RIVER SEDIMENT DELIVERY SYSTEM
 BAYOU DUPONT, LOUISIANA



(Sheet 1 of 1)

Scale In Feet	PP	SPT	S P L R	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent		Density		Shear Tests			Atterberg Limits			Other Tests
								Dry	Wet	Type	φ	C	LL	PL	PI			
0	0.25			Extremely soft to very soft gray silty clay	CL	1	0-2											
	0.25					2	2-4	48	109	UC	--	28						
	0.25					3	4-6											
				Very loose to loose gray sandy silt	ML	4	6-8											
				Loose gray silty sand w/clay	SM	5	8-10	30	117	OB	0	204						
						6	10-12											
						7	12-14											
						8	14-16											
						9	16-18											
						10	18-19											
						11	19-20.5											
						12	22-23											
						13	25-26											
						14	28-29											
						15	31-32											
						16	34-35											
						17	37-38											
						18	39-40											
50																		

Ground Elev.: -27.3 **Datum:** NAVD 88 **Gr. Water Depth:** N/A **Job No.:** 19183 **Date Drilled:** 3/05/06 **Boring:** 3 **Refer to "Legends & Notes"**

Comments: Estimated water surface at el 2.7.
 N 29° 40.046'; W 89° 57.686'

LOG OF BORING AND TEST RESULTS
 STATE OF LOUISIANA
 COASTAL RESTORATION AND MANAGEMENT
 MISSISSIPPI RIVER SEDIMENT DELIVERY SYSTEM
 BAYOU DUPONT, LOUISIANA

Ground Elev.: -1.3 Datum: NAVD 88 Gr. Water Depth: N/A Job No.: 19183 Date Drilled: 4/03/06 Boring: 4 Refer to "Legends & Notes"

Scale In Feet	PP	SPT	SPLR	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests			Atterberg Limits			Other Tests
										Dry	Wet	Type	φ	C	LL	PL	PI	
0	0.00				Very soft gray clay	CH	1	1-2	87	50	93	OB	0	50	109	29	80	
	0.00				Very soft gray organic clay	OH	2	3-4										
	0.00						3	5-6	262	20	74	UC	--	125	267	88	179	
	0.50				Loose gray sandy silt	ML	4	7.0-8										
10	0.00				Very soft gray clay w/sandy silt lenses & pockets	CH	5	9-10	76	55	98	OB	0	58	32	25	7	CON
	0.00				w/sand pockets & shell fragments		6	11-12										
	0.50						7	13-14	63	63	102	UC	--	148				
	0.25						8	15-16										
	0.00						9	17-18										
	0.25						10	19-20										
	0.50						11	24-25	79	53	95	UC	--	173				
	0.75						12	29-30										
	0.50						13	34-35										
	0.50						14	39-40										

Comments: Estimated water surface at el 0.2.
 N 29° 39.078'; 90° 01.346'

EUSTIS ENGINEERING COMPANY, INC. **LOG OF BORING AND TEST RESULTS** (Sheet 1 of 2)
 STATE OF LOUISIANA
 COASTAL RESTORATION AND MANAGEMENT
 MISSISSIPPI RIVER SEDIMENT DELIVERY SYSTEM
 BAYOU DUPONT, LOUISIANA



Ground Elev.: -1.8 Datum: NAVD 88 Gr. Water Depth: N/A Job No.: 19183 Date Drilled: 3/30/06 Boring: 5 Refer to "Legends & Notes"

Scale In Feet	PP	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent		Density		Shear Tests			Atterberg Limits			Other Tests
									Dry	Wet	Type	φ	C	LL	PL	PI			
0					Very soft black humus	Pt	1	1-2											
0.00							2	3-4	664	66	9	66	OB	0	53.2	672	245	427	
0.00							3	5-6											
0.00					Very soft gray clay w/silt lenses & pockets	CH	4	7-8	71	96	56	96	UC	--	65	150	47	103	
0.25							5	9-10											
0.00					Loose to medium compact gray clayey silt w/ clay layers	ML	6	11-12	34	117	88	117	OB	0	355	48	21	27	
0.25							7	13-14											
0.25							8	15-16											
0.75							9	17-18	24	122	98	122	OB	0	1658	35	26	9	CON
0.00					Medium compact gray sandy silt w/clay layers	ML	10	19-20											
0.25							11	24-25	82	94	52	94	UC	--	160				
0.25					Very soft gray clay	CH	12	29-30											
0.25					w/sandy silt lenses & layers		13	34-35	63	99	61	99	UC	--	180				
0.25							14	39-40											
0.50					Soft gray clay w/sand lenses	CH	15	44-45	60	101	63	101	OB	0	392				
0.75							16	49-50											

Comments: Estimated water surface at el 0.2.
 N 29° 38.887'; W 90° 00.743'

LOG OF BORING AND TEST RESULTS
 STATE OF LOUISIANA
 COASTAL RESTORATION AND MANAGEMENT
 MISSISSIPPI RIVER SEDIMENT DELIVERY SYSTEM
 BAYOU DUPONT, LOUISIANA

Ground Elev.: -1.8 Datum: NAVD 88 Gr. Water Depth: N/A Job No.: 19183 Date Drilled: 3/30/06 Boring: 5 Refer to "Legends & Notes"

Scale in Feet	PP	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth in Feet	Water Content Percent	Density		Shear Tests			Atterberg Limits			Other Tests
										Dry	Wet	Type	φ	C	LL	PL	PI	
50					Soft gray clay	CH	17	54-55	64	63	102	UC	-	395				
60	0.50				Medium stiff gray clay	CH	18	55-60										
70	0.75																	
80																		
90																		
100																		

Comments: Estimated water surface at el 0.2.
 N 29° 38.887'; W 90° 00.743'



STATE OF LOUISIANA
 COASTAL RESTORATION AND MANAGEMENT
 MISSISSIPPI RIVER SEDIMENT DELIVERY SYSTEM
 BAYOU DUPONT, LOUISIANA

Ground Elev.: -0.3 Datum: NAVD 88 Gr. Water Depth: N/A Job No.: 19183 Date Drilled: 4/03/06 Boring: 6 Refer to "Legends & Notes"

Scale in Feet	PP	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth in Feet	Water Content Percent		Density		Shear Tests			Atterberg Limits			Other Tests	
									Dry	Wet	Dry	Wet	Type	σ	C	LL	PL	PI		
0	0.00				Very soft dark brown humus	Pt	1	1-2												
0.75	0.75				Very soft gray clay w/silt pockets	CH	2	3-4	63	100	61	100	UC	--	145	88	27	61		
1.00	1.00						3	5-6												
0.75	0.75						4	7-8	63	100	62	100	UC	--	215	81	23	58		
0.50	0.50						5	9-10												
1.25	1.25				Medium compact gray clayey silt w/clay lenses	ML	6	11-12	38	115	83	115	OB	0	552					
1.25	1.25						7	13-14												
0.50	0.50						8	15-16	57	102	65	102	OB	0	150	68	28	40		
0.50	0.50						9	17-18												
0.75	0.75						10	19-20												
0.50	0.50				w/sandy silt pockets		11	24-25												
1.00	1.00						12	29-30	64	100	61	100	UC	--	233					
0.75	0.75						13	34-35												
0.75	0.75						14	39-40												

Comments: Estimated water surface at el 0.2.
 N 29° 39.418'; W 90° 00.719'

EUSTIS ENGINEERING COMPANY, INC. **LOG OF BORING AND TEST RESULTS**
 STATE OF LOUISIANA
 COASTAL RESTORATION AND MANAGEMENT
 MISSISSIPPI RIVER SEDIMENT DELIVERY SYSTEM
 BAYOU DUPONT, LOUISIANA

(Sheet 1 of 1)



Scale In Feet	PP	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests		Atterberg Limits			Other Tests	
										Dry	Wet	Type	φ	C	LL	PL		PI
0	0.00				Very soft black humus	Pt	1	1-2	700	8	64	OB	0	64				
0.00	0.00						2	3-4										
1.50	0.75				Medium compact gray clayey silt	ML	3	5-6	29	93	120	OB	0	616	36	31	5	
0.50	0.00						4	7-8										
0.00	0.00						5	9-10										
0.00	0.00				Very soft gray clay w/sand lenses & pockets	CH	6	11-12	79	54	97	OB	0	100	80	25	55	
0.50	0.00						7	13-14										
0.00	0.00				w/sand pockets		8	15-16										
0.00	0.00						9	17-18										
0.50	0.50						10	19-20	74	57	99	UC	--	95				
0.25	0.25						11	24-25										
0.50	0.50				w/sand lenses & pockets		12	29-30										
0.75	0.75						13	34-35	69	55	96	UC	--	98	74	22	52	CON
1.00	1.00				Medium stiff gray clay	CH	14	39-40										

Ground Elev.: -2.7 Datum: NAVD 88 Gr. Water Depth: N/A Job No.: 19183 Date Drilled: 4/03/06 Boring: 7 Refer to "Legends & Notes"

Comments: Estimated water surface at el 0.2.
 N 29° 38.889'; W 90° 00.290'



STATE OF LOUISIANA
 COASTAL RESTORATION AND MANAGEMENT
 MISSISSIPPI RIVER SEDIMENT DELIVERY SYSTEM
 BAYOU DUPONT, LOUISIANA

Ground Elev.: -1.8 Datum: NAVD 88 Gr. Water Depth: N/A Job No.: 19183 Date Drilled: 3/31/06 Boring: 8 Refer to "Legends & Notes"

Scale In Feet	PP	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests			Atterberg Limits			Other Tests
										Dry	Wet	Type	ø	C	LL	PL	PI	
0							1	1-2	528	10	65	UC	--	13				
0.00					Very soft black humus	PI	2	3-4										
0.00					Very soft dark gray humus w/roots and clay layers	PI	3	5-6										
0.00					Very loose gray clayey silt	ML	4	7-8	208	25	76	OB	0	57	224	67	157	CON
0.00					Very soft gray clay	CH	5	9-10										
0.50					Very soft gray clay	CH	6	11-12										
0.00					Very soft gray clay	CH	7	13-14	38	83	115	OB	0	221				
0.00					Very soft gray clay	CH	8	15-16										
0.00					Very soft gray clay	CH	9	17-18										
0.00					Very soft gray clay	CH	10	19-20	81	52	93	UC	--	155				
0.00					Very soft gray clay	CH	11	24-25										
0.25					Very soft gray clay	CH	12	29-30	57	64	100	UC	--	130				
0.50					Very soft gray clay	CH	13	34-35										
0.50					Very soft gray clay	CH	14	39-40										

Comments: Estimated water surface at el 0.2.
 N 29° 38.593'; W 90° 00.268'

LOG OF BORING LEGEND

LJC&A: 07-110

1. SPT = Standard Penetration Test (4/6/9) where 4 is the blows to seat and 15 is blows (N) for 12 inch penetration.

2. QU (TSF) = Unconsolidated undrained triaxial, one point test

0.05 @ 0.12 is the compressive strength in tsf which is twice the cohesion and @ means the confining pressure at tsf.
Note: tests without @ values following are for unconfined Compression shear tests.

3. WC (%) = In situ water content

4. Dry Wt. (PCF) = The dry unit weight of soil

5. LL = Liquid Limit (%)

6. PI = Plasticity Index (%)

7. MV(KSF) = Miniature vane strength test done in end of sample in the Shelby tube and value is the cohesion in KSF.

LOG OF BORING

Project: Bayou Dupont Plaquemines Parish, Louisiana Louisiana Department of Natural Resources (2503-05-44)		Boring: B-1B File: 07-110 Date: 24-May-07 Technician: CAL	
For: Sigma Consulting Group Baton Rouge, Louisiana		N 29° 42.099' W 89° 58.799'	
Depth Feet	SAMPLES		
		<input type="checkbox"/> Undisturbed Sample <input checked="" type="checkbox"/> Standard Penetration Test <input type="checkbox"/> Classification Sample (SLS) Slickensided	Boring Depth: 98 Feet (SPT) Recovery % UU(TSF) WC(%) Dry Wt. (PCF) LL PI MV(KSF)
0			Zero = top of casing, set 62 feet of 8 inch casing 74 feet of 4 inch casing; top of casing to water is 7 feet Water surface El. 5.0 feet NAVD 88 (Estimated) Water depth = 51.5 feet Mudline El. -46.5 feet, NAVD 88
-60	X	Loose brown sand (SP)	66
		6 blows per foot (2/3/3)	
	X	Firm brown sand (SP)	61
		20 blows per foot (10/11/9)	
	X	Firm brown sand (SP)	100
		23 blows per foot (9/11/12)	
-65	X	Firm brown sand (SP)	70
		20 blows per foot (10/10/10)	
	X	Firm gray sand (SP)	72
		18 blows per foot (7/9/9)	
	X	Firm gray sand (SP)	72
		20 blows per foot (5/9/11)	
-70	X	Firm gray sand with clay layer (SP)	100
		20 blows per foot (6/8/12)	
	X	Very dense gray sand with clay layer, shells, wood, and organic (SP)	70
		58 blows per foot (15/32/26)	
-75	X	Very dense gray sand with organic (SP)	80
		51 blows per foot (19/27/24)	
	X	Firm gray sand (SP)	53
		14 blows per foot (5/6/8)	
	X	Firm gray sand (SP)	60
		14 blows per foot (5/6/8)	
-80	X	Firm gray sand (SP)	100
		25 blows per foot (13/12/13)	
	X	Firm gray sand (SP)	100
		27 blows per foot (13/13/14)	
-85	X	Firm gray sand (SP)	100
		34 blows per foot (15/14/20)	
	X	Firm gray sand (SP)	90
		15 blows per foot (5/6/9)	
	X	Firm gray sand (SP)	100
		22 blows per foot (10/12/10)	
-90	X	Firm gray sand (SP)	100
		25 blows per foot (9/11/14)	
	X	Dense gray sand with organic (SP)	100
		27 blows per foot (10/13/14)	
-95	X	Dense gray sand with organic (SP)	90
		37 blows per foot (11/14/23)	
	X	Dense gray sand with organic (SP)	100
		46 blows per foot (11/22/24)	
100			

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.
 Geotechnical Engineers

LOG OF BORING

Project: Bayou Dupont Plaquemines Parish, Louisiana Louisiana Department of Natural Resources (2503-05-44)		Boring: B-2B File: 07-110 Date: 16-May-07 Technician: CAL	
For: Sigma Consulting Group Baton Rouge, Louisiana		N 29° 42.490' W 89° 58.992' Boring Depth: 98 Feet	
Depth Feet	SAMPLES	■ Undisturbed Sample ⊗ Standard Penetration Test □ Classification Sample (SLS) Slickensided	
0		(SPT) Recovery % UU(TSF) WC(%) Dry Wt. (PCF) LL PI MV(KSF)	
			Zero = top of casing, set 62 feet of 8 inch casing; top of casing to water is 7 feet Water surface El. 5.0 feet NAVD 88 (Estimated) Water depth = 51.0 feet Mudline El. -46.0 feet, NAVD 88
60	⊗		Firm brown sand (SP) 44 14 blows per foot (5/6/8)
	⊗		Firm brown sand with organic matter (SP) 90 17 blows per foot (8/9/8)
	⊗		Firm brown sand (SP) 20 15 blows per foot (4/6/9)
65	⊗		Firm gray sand with organic matter (SP) 80 23 blows per foot (8/8/15)
	⊗		Firm gray sand (SP) 55 20 blows per foot (9/10/10)
	⊗		Firm gray sand (SP) 60 23 blows per foot (9/11/12)
70	⊗		Firm gray sand (SP) 70 27 blows per foot (13/13/14)
	⊗		Firm gray sand (SP) 80 27 blows per foot (14/14/13)
75	⊗		Dense gray sand 80 32 blows per foot (14/15/17)
	⊗		Dense gray sand (SP) 100 37 blows per foot (17/18/19)
	⊗		Dense gray sand (SP) 100 33 blows per foot (17/17/16)
80	⊗		Firm gray sand (SP) 70 25 blows per foot (9/13/12)
	⊗		Firm gray sand (SP) 70 27 blows per foot (14/14/13)
85	⊗		Firm gray sand (SP) 70 29 blows per foot (12/14/15)
	⊗		Firm gray sand (SP) 55 20 blows per foot (9/9/11)
	⊗		Firm gray sand (SP) 55 13 blows per foot (7/8/5)
90	⊗		Firm gray sand with organic matter (SP) 80 22 blows per foot (11/11/11)
	⊗		Firm gray sand with organic matter (SP) 100 29 blows per foot (13/16/13)
95	⊗		Very dense gray sand (SP) 90 50 blows per foot (18/24/26)
	⊗		Very dense gray sand (SP) 60 56 blows per foot (19/27/29)
100			

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.
 Geotechnical Engineers

LOG OF BORING

Project: Bayou Dupont Plaquemines Parish, Louisiana Louisiana Department of Natural Resources (2503-05-44)		Boring: B-3B File: 07-110 Date: 17-May-07 Technician: CAL	
For: Sigma Consulting Group Baton Rouge, Louisiana		N 29° 42.950' W 89° 59.203' Boring Depth: 104 Feet	
Depth Feet	SAMPLES	■ Undisturbed Sample ⊗ Standard Penetration Test □ Classification Sample (SLS) Slickensided	
0		(SPT) Recovery % UU(TSF) WC(%) Dry Wt. (PCF) LL PI MV(KSF)	
		Zero = top of casing, set 64 feet of 8 inch casing; top of casing to water is 7 feet Water surface El. 5.0 feet NAVD 88 (Estimated) Water depth = 57.0 feet Mudline El. -52.0 feet, NAVD 88	
-65	⊗	Loose brown sand with wood (SP) 7 blows per foot (3/3/4)	60
	⊗	Very loose brown sand (SP) 3 blows per foot (2/2/1)	75
	⊗	Firm gray sand with organic matter (SP) 10 blows per foot (5/5/5)	80
-70	⊗	Firm gray sand (SP) 10 blows per foot (3/4/6)	90
	⊗	Firm gray sand (SP) 15 blows per foot (8/7/8)	90
-75	⊗	Firm gray sand (SP) 18 blows per foot (6/7/11)	90
	⊗	Firm gray sand (SP) 26 blows per foot (12/12/14)	100
	⊗	Firm gray sand (SP) 22 blows per foot (9/11/11)	60
-80	⊗	Firm gray sand (SP) 22 blows per foot (10/11/11)	90
	⊗	Firm gray sand (SP) 25 blows per foot (13/12/13)	80
-85	⊗	Dense gray sand (SP) 32 blows per foot (16/15/17)	75
	⊗	Dense gray sand (SP) 37 blows per foot (17/17/20)	60
	⊗	Dense gray sand (SP) 32 blows per foot (16/15/17)	50
-90	⊗	Firm gray sand (SP) 29 blows per foot (9/13/16)	80
	⊗	Firm gray sand (SP) 27 blows per foot (15/14/13)	80
-95	⊗	Dense gray sand (SP) 42 blows per foot (18/20/22)	60
	⊗	Dense gray sand (SP) 49 blows per foot (22/23/26)	50
	⊗	Very dense gray sand (SP) 56 blows per foot (20/27/29)	50
100	⊗	Very dense gray sand (SP) 63 blows per foot (20/31/32)	55
	⊗	Very dense gray sand (SP) 63 blows per foot (30/32/31)	80
105			

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LOG OF BORING

Project: Bayou Dupont Plaquemines Parish, Louisiana Louisiana Department of Natural Resources (2503-05-44)		Boring: B-4B File: 07-110 Date: 24-May-07 Technician: CAL							
Depth Feet	SAMPLES	■ Undisturbed Sample	N 29° 40.120'						
		⊗ Standard Penetration Test	W 89° 58.606'						
		□ Classification Sample	Boring Depth: 40 Feet						
		(SLS) Slickensided	(SPT) Recovery %	UU(TSF)	WC(%)	Dry Wt. (PCF)	LL	PI	MV(KSF)
0		Very stiff tan and gray clay with grass roots and glass (CH)	95	2.22	33	87.5	72	45	--
		Stiff tan and gray clay with silt streaks and pockets (CH)	95	1.42	37	84.5	--	--	1.15
5		Stiff tan and gray clay with ferrous nodules (CH)	90	1.00	37	83.9	--	--	.63
		Medium gray silty clay with silt streaks (CL)	90	0.5	43	80.1	40	19	.49
		Free water encountered at 8 feet; rose to 5 feet in 10 minutes							
10		Soft gray clay (CH)	1.00	0.38 @.52	44	80.4	--	--	.46
		Soft gray clay (CH)	95	0.47 @.65	37	81.4	--	--	.35
		Soft gray clay with silt streaks (CH)(SLS)	95	0.32 @.75	38	82.0	--	--	.28
15		Medium gray clay with silt lenses (CH)	100	.60 @.86	38	84.6	77	49	.22
		Soft gray silty clay (CH)	100	.34 @.99	37	80.9	--	--	.06
20		No sample recovered							
	⊗	Loose gray very silty clay (CL) 5 blows per foot (1/2/3)	80	--	--	--	--	--	--
		Soft gray clay (CH)	100	.25 @1.34	39	79.6	--	--	0.33
25		Soft gray silty clay (CL) with 3" silt layer	50	.27 @1.45	46	82.1	35	16	.03
		Very loose gray fine sand (SP)	50	1.15 @1.56	28	89.6	--	--	--
		Firm gray sandy silt (SM) with clay traces	40	1.24 @1.68	28	93.3	--	--	0.05
30		Firm gray sandy silt (SM) with 1/2" clay layer	100	.55 @1.80	27	94.4	--	--	--
		Firm gray fine sand (SP)	100	.64 @1.92	31	85.8	--	--	--
35		Firm gray fine sand (SP) with 1/2" clay layer	65	.50 @2.03	27	86.0	--	--	--
	⊗	Firm gray fine sand with silt traces (SP) 22 blows per foot (5/8/14)	75	--	--	--	--	--	--
	⊗	Firm gray fine sand with silt traces (SP) 10 blows per foot (6/7/3)	75	--	--	--	--	--	--
40		Clay encountered at 40 feet							

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LOG OF BORING

Project: Bayou Dupont Plaquemines Parish, Louisiana Louisiana Department of Natural Resources (2503-05-44)		Boring: B-5B File: 07-110 Date: 24-May-07 Technician: CAL							
Depth Feet	SAMPLES	<input type="checkbox"/> Undisturbed Sample <input checked="" type="checkbox"/> Standard Penetration Test <input type="checkbox"/> Classification Sample (SLS) Slickensided	N 29° 42.019' W 89° 59.218' Free water encountered at 4 feet; rose to 3 feet in 10 minutes Boring Depth: 40 Feet						
		(SPT) Recovery % UU(TSF) WC(%) Dry Wt. (PCF) LL PI MV(KSF)							
0		Stiff brown, tan, and gray slightly silty clay with roots, shells, and sand pockets(CL)	95	1.13	23	99.1	--	--	2.1
		Stiff brown, tan, and gray slightly silty clay (CL)	90	1.06	26	96.1	47	26	.82
5		Medium tan and gray clay (CH) with silt streaks and pockets	90	.54@.32	32	91.5	--	--	.44
		Soft gray slightly silty clay (CL)	50	.35@.40	37	86.9	48	26	--
10	<input checked="" type="checkbox"/>	Soft tan and gray silty clay with shells(CL) 2 blows per foot (2/1/1)	100	--	31	--	41	22	--
		Soft gray silty clay (CL)	90	.42@.65	35	92.3	--	--	.23
		Soft gray clay with sand streaks and pockets (CH)	90	.32@.75	46	77.8	--	--	.16
15		Soft gray clay with organic matter traces (CH)	90	.45@.86	41	77.4	52	29	.25
		Soft gray very silty clay (CL)	100	.28 @ .99	38	81.6	--	--	.15
20		Soft gray very silty clay with 3" sandy silt layer (CL)	90	.48@1.09	35	83.7	--	--	.08
		Soft gray very silty clay with 2½" clayey silt layer (CL)	90	.26@1.22	38	84.1	34	14	.29
		Loose gray silty sand with clay traces (ML)	90	.69@1.34	33	82.0	--	--	--
25		Loose gray clayey silt with 1" clay layer (CL-ML)	95	.49@1.45	36	79.3	--	--	.09
		Soft gray slightly organic clay with silt pockets (OH)	100	.37@1.56	73	57.8	--	--	1.75
30		Medium gray slightly organic clay with shells (OH)	100	.60@1.68	71	56.1	--	--	.32
		Soft gray clay (CH)	90	.30@1.80	50	66.9	--	--	.25
		Medium gray slightly organic clay (OH)	100	.58@1.92	72	57.9	--	--	.45
35		Soft gray clay (CH) (SLS)	100	.46@2.03	64	61.3	93	69	.17
		Medium gray clay (CH)	100	.50@2.15	58	63.6	--	--	.38
40		Medium gray clay with silt lenses (CH)	100	.57@2.26	54	68.0	--	--	.49

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