LOG OF BORING B-2

SHEET 1 of 1

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CLIENT: HDR/Shiner Moseley and Associates, Inc.
PROJECT: New East Jetty: Mouth of Colorado River
LOCATION: Matagorda County, TX
NUMBER: G207487
DATE(S) DRILLED: 07/24/07 - 07/24/07

DRILLING METHOD(S):
Hollow Stem Auger

GROUNDWATER INFORMATION:

SURFACE ELEVATION: EL + 1.0 NAVD' 88

SOIL SYMBOL	DEPTH (FT)	SAMPLE NUMBER	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: TONS/SQ FT PERCENT RECOVERY/ ROCK QUALITY DESIGNATION	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ FT)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
	5											**WATER DEPTH= 12.5'**
	10											
	15	SS S-1		N= 8	26	NP	NP	NP			13	**SILTY SAND**, brown and gray, wet, loose. (SM)
		SS S-2		N= 3	39						36	**CLAYEY SAND**, with numerous shells, greenish gray, saturated, soft.
	20	SS S-3		N= 2	34							Same as above, very soft.
	25	SS S-4		N= 2	33	47	16	31			45	Same as above, with clay layers. (SC)
	30	SS S-5		N= 2	33							**SANDY FAT CLAY**, brown, very moist, very soft.
	35	SS S-6		N= 8	22	47	16	31			59	**SANDY LEAN CLAY**, gray, very moist, stiff. (CL)
	40	SH S-7		P= 4.25	20	38	15	23	111	3.7	68	Same as above, gray and brown, very stiff. (CL)
	45	SS S-8		N= 7	18	NP	NP	NP			7	**POORLY GRADED SAND**, with silt shell fragments, grayish brown, wet, loose. (SP-SM)
												Total Depth of Boring= 45' Below Water Level

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - POCKET TORVANE SHEAR STRENGTH

REMARKS:
Boring location was determined by RETL. Boring operations were performed by a drilling sub-contractor to RETL.
Coordinates: N 28 35 25.2, W 95 59 03.9

LOG_OF_BORING G207487 NEW JETTY.GPJ ROCK ETL.GDT 8/28/07

The soil conditions encountered at the boring locations have been summarized and soil properties including plasticity, strength, grain size and classification are provided in Tables 3 through 7. The following terms and acronyms are used in these tables:

EL = Approximate depth in feet referenced to water surface elevation.
LL = Liquid Limit, %
PI = Plasticity Index
C = Soil Cohesion, psf (undrained)
ϕ = Angle of Internal Friction, deg. (undrained)
γ_e = Effective soil unit weight, pcf
-#200 = % silt and clay size particles
N = Standard Penetration Value range
P = Hand Penetrometer range, tsf
NP = Non plastic material

TABLE 3: SOIL PROFILE FOR BORINGS B-1 AND B-3

EL	Description	LL	PI	C	ϕ	γ_e	-#200	N or P
-8 to -32	Silty **SAND**/ Poorly Graded **SAND**	NP	NP	0	29	55	4-16	N=4-21
-32 to -42	Fat **CLAY**	51-59	33-38	1500	0	60	72-78	P=2.5
-42 to -47	Clayey **SAND**	33	17	1500	0	60	31-40	P=1.75-2.5
-47 to -67	Poorly Graded **SAND**	NP	NP	0	35	60	5-7	N=7-72
-67 to -75	Fat **CLAY**	69	42	1000	0	55	88-90	N=4-7

TABLE 4: SOIL PROFILE FOR BORING B-2

EL	Description	LL	PI	C	ϕ	γ_e	-#200	N or P
-12 to -16	Silty **SAND**	NP	NP	0	28	55	13	N=8
-16 to -27	Clayey **SAND**	47	31	300	0	55	36-45	N=2-3
-27 to -32	Sandy Fat **CLAY**	---	---	200	0	55	---	N=2
-32 to -42	Sandy Lean **CLAY**	38-47	23-31	2000	0	60	59-68	P=4.25
-42 to -45	Poorly Graded **SAND**	NP	NP	0	30	55	7	N=7