

May 31, 2006
 Attn.: Mr. Hugo E. Bermudez, P.E.
 RETL Job No.: G106337

PROPOSED SAN LUIS PASS PROJECT
 West Galveston Bay
 Freeport, Texas

	BORING B-1				BORING B-2			
SIEVE SIZE	0-2.5'	2.5'-5'	5'-7.5'	7.5'-10'	0-2.5'	2.5'-5'	5'-7.5'	7.5'-10'
#10	100	100	100	100	100	100	100	100
#20	100	100	100	100	100	100	100	100
#40	100	100	100	100	100	100	100	100
#60	99	99	99	99	99	100	100	100
#70	98	98	96	98	99	99	100	99
#80	94	96	89	95	97	98	100	97
#100	72	84	56	66	63	92	98	86
#120	35	43	35	32	28	52	72	52
#140	14	16	18	14	13	21	31	24
#200	3.2	4.5	6.2	4.9	4.8	5.2	4.7	5.0
#230	2.6	3.7	4.9	4.2	4.4	4.3	3.3	3.9
Color	2.5Y 4/2	2.5Y 4/3	2.5Y 5/2	2.5Y 5/2	2.5Y 4/1	2.5Y 5/2	2.5Y 5/1	2.5Y 5/2
Description	Dk. Gray Brown	Olive Brown	Gray Brown	Gray Brown	Dk. Gray	Gray Brown	Gray	Gray Brown

	BORING B-3				BORING B-4			
SIEVE SIZE	0-2.5'	2.5'-5'	5'-7.5'	7.5'-10'	0-2.5'	2.5'-5'	5'-7.5'	7.5'-10'
#10	99	100	98	100	99	100	100	99
#20	98	100	97	100	99	100	100	99
#40	98	99	96	100	98	100	100	99
#60	97	98	95	99	97	99	99	98
#70	95	97	93	99	96	99	99	98
#80	91	93	89	97	92	97	98	97
#100	54	61	70	79	54	78	86	88
#120	22	30	39	44	26	36	49	51
#140	9	13	14	19	11	12	19	24
#200	2.1	3.9	3.7	4.7	2.6	1.9	6.1	13.6
#230	1.8	3.7	3.0	4.0	2.2	1.5	5.0	13.2
Color	2.5Y 5/3	2.5Y 5/2	2.5Y 5/2	2.5Y 5/2	2.5Y 5/2	2.5Y 5/2	2.5Y 4/1	2.5Y 5/1
Description	Lt. Olive Brown	Gray Brown	Gray Brown	Gray Brown	Gray Brown	Gray Brown	Dk. Gray	Gray

LOG OF BORING B-4

SHEET 1 of 1

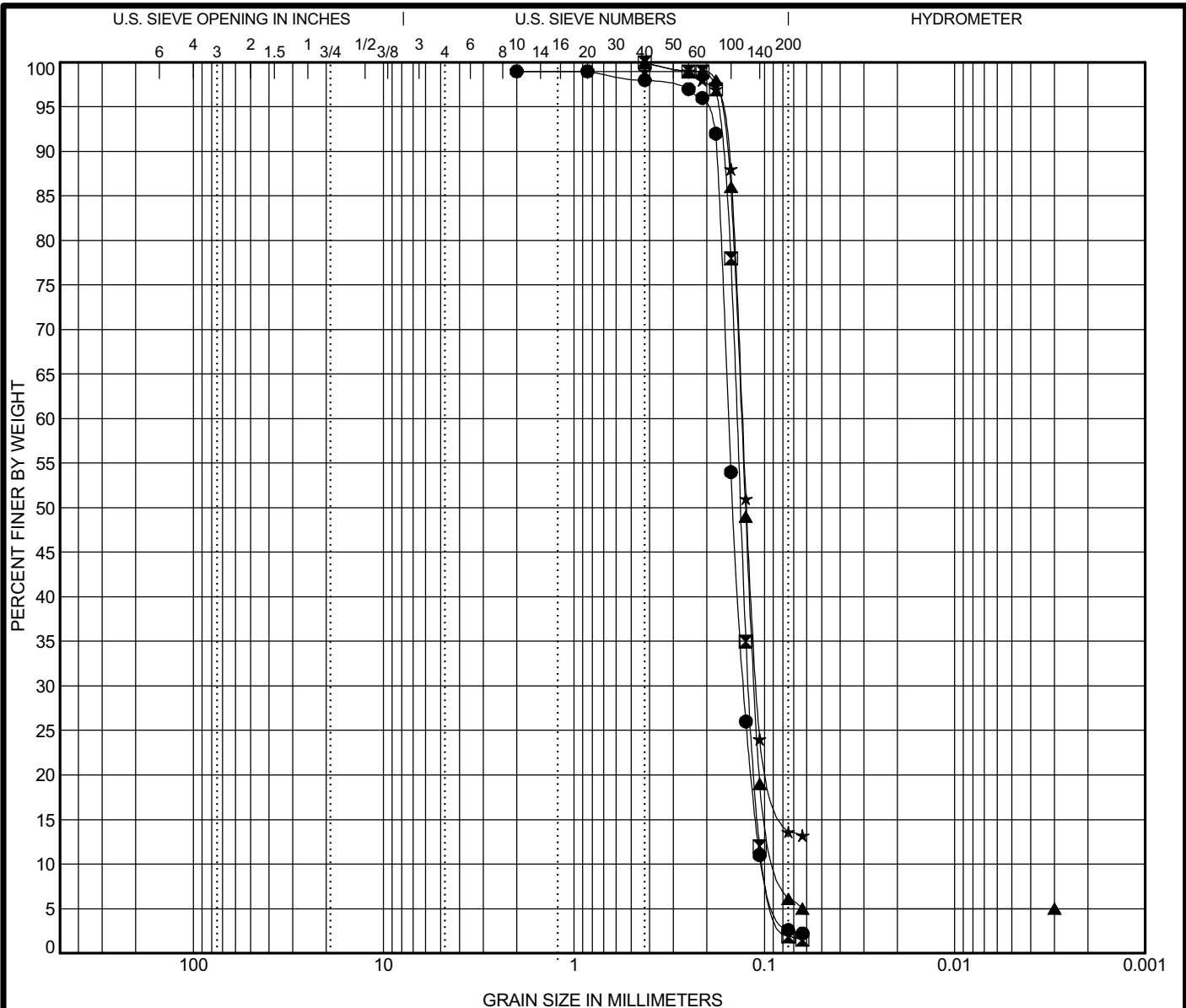


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CLIENT: Coast and Harbor Engineering, Inc.
PROJECT: Proposed San Luis Pass Project
LOCATION: W. Galveston Bay; Freeport, Texas
NUMBER: G106337

DATE(S) DRILLED: 5/18/06 - 5/18/06

FIELD DATA										LABORATORY DATA					DRILLING METHOD(S): Disturbed Samples
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			DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ FT)	MINUS NO. 200 SIEVE (%)	GROUNDWATER INFORMATION: N/A			
						LL	PL	PI							
	1											SURFACE ELEVATION: N/A			
	2	S-1													
	3											DESCRIPTION OF STRATUM			
	4	S-2													
	5											<u>WATER DEPTH= 1/2-FOOT</u>			
	6	S-3													
	7											<u>POORLY GRADED SAND</u> , 2.5Y 5/2 gray brown. Same as above, 2.5Y 5/2 gray brown.			
	8														
	9	S-4										<u>SILTY CLAYEY SAND</u> , 2.5Y 5/1 gray.			
	10														
Boring terminated at a depth of 10' below the bay bottom.												REMARKS: Soil Sampling performed by RETL at N29 deg 05' 42.0" W95 deg 07' 14.7"			
N - STANDARD PENETRATION TEST RESISTANCE P - POCKET PENETROMETER RESISTANCE T - POCKET TORVANE SHEAR STRENGTH															



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification		Classification				LL	PL	PI	Cc	Cu
●	B-4	1.0	POORLY GRADED SAND(SP)						1.05	1.52
☒	B-4	2.5	POORLY GRADED SAND(SP)						1.06	1.40
▲	B-4	5.0							1.15	1.58
★	B-4	7.5							5.93	8.37

Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	B-4	1.0	2	0.154	0.128	0.102	0.0	96.4	2.6
☒	B-4	2.5	0.425	0.139	0.121	0.099	0.0	98.1	1.9
▲	B-4	5.0	0.425	0.132	0.113	0.083	0.0	93.9	6.1
★	B-4	7.5	2	0.131	0.11	0.016	0.0	85.4	13.6

GRAIN SIZE DISTRIBUTION

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