



Quaternary Resource Investigations, LLC
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BORING NUMBER 13-B162

PAGE 1 OF 2

CLIENT USACE-Galveston District
PROJECT NUMBER W912HY-13-D-0001-DY05
DATE STARTED 1/5/2014 7:35:00 AM **COMPLETED** 1/6/2014 10:30:00 AM
DRILLING CONTRACTOR QRI
DRILLING METHOD Hollow Stem Auger
LOGGED BY Eddie Ficker **TOTAL DEPTH** 70 ft
WEATHER cloudy, breezy, 60s; rain and wind; sunny, windy, 30s

PROJECT NAME Sabine Neches Placement Area 8
PROJECT LOCATION Port Arthur, TX
GROUND ELEVATION 17.5982 ft **HOLE SIZE** 8.25 inches
NORTHING 13887031.29 ft **EASTING** 3577248.503 ft
DRILLING RIG MAKE/MODEL Mobile B57 on Gemco Articulated Platform
GROUND WATER LEVEL ▽ AT TIME OF DRILLING 24.40 ft / Elev -6.80 ft
▽ 15 MINUTES AFTER DRILLING 23.20 ft / Elev -5.60 ft

COPY OF PEGGY LAKE GEOTECH BH - PEGGY LAKE TEMPLATE.GDT - 7/15/14 13:11 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\SABINE NECHES PA 8 FINAL EDITED.GPJ

GRAPHIC LOG	USCS SYMBOL	MATERIAL DESCRIPTION	DEPTH (ft)	SAMPLE TYPE	RECOVERY (in)	SPT BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	FIELD TORVANE (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	ATTERBERG LIMITS	MINUS #200 SIEVE CONTENT (%)	COMPRESSION STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
			0															
		Fat CLAY, light brown, stiff, with common shell fragments 4'-6'		ST	10		1.5		97	27	62	19	43		88	1.32	8	
		less silt and more sand, firm		ST	7		1.25			31								
		mix of light brown and gray, stiff	5	ST	13		0.5		94	29	64	23	41		83	1.56	6	4
		dark gray		ST	17		2.25			45								
		mix of light brown and dark gray, firm		ST	11		1.25		85	31						0.64	2	
		no sand, mix of very light brown and light gray, soft	10	ST	18		0.5		82	41								
		mix of black-very light brown-light gray, firm		NR														
			15	ST	16		0.75			35								
				NR														
		gray, very soft, with common shell fragments 18'-20'	20	ST	13		0	0.1	81	40	63	21	42		90			
				NR														
		▽ Fat CLAY with SILT fine to medium grained, very light brownish gray, very soft	25	ST	9					27								
		very silty, light brownish gray to gray, with occasional shell fragments 25'-27.5'		SS	18	1-1-1-1 (2)				29					52			
				NR														
		very sandy (sand is fine grained), light gray and orangish brown mottled, stiff	30	SS	20	2-6-7-10 (13)	2.0			28								
				ST	16		1.0		88	34	45	16	29		89	1.32	14	22
				NR														
			35	ST	19		2.0			26								

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PROJECT LOCATION Port Arthur, TX

GRAPHIC LOG	USCS SYMBOL	MATERIAL DESCRIPTION	DEPTH (ft)	SAMPLE TYPE	RECOVERY (in)	SPT BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	FIELD TORVANE (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS	MINUS #200 SIEVE CONTENT (%)	COMPRESSIVE STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
	ML	Silty CLAY, fine to medium grained, light brownish gray, low plasticity, stiff	35	SS	18	2-3-6-10 (9)				26		68			
	CL-ML	fine grained, orangish brown and light gray		NR											
		Lean CLAY with SAND, very light brown and orangish brown mottled, stiff	40	SS	18	3-5-6-7 (11)	1.5			35					
		light gray and light brown mottled, with abundant orangish brown sand laminations, firm		ST	19		1.25		92	33		99	0.73	7	
		sand laminations brownish gray, stiff		NR											
			45	ST	17		1.5		92	31					
				NR											
				ST	20		2.0			35					
			50	NR											
		less sand, very silty, gray, firm		ST	13		1.0		76	45					
			55	NR											
		gray, with a trace of fine sand		ST	16		1.25								
			60	NR											
		with occasional shell fragments 61.5'-68'		ST	16		1.0			40					
			65	NR											
		brownish gray, stiff		ST	12		2.5			41					
			70												

Bottom of borehole at 70.0 feet.