



Quaternary Resource Investigations, LLC
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BORING NUMBER 13-B167

PAGE 1 OF 2

CLIENT USACE-Galveston District **PROJECT NAME** Sabine Neches Placement Area 8
PROJECT NUMBER W912HY-13-D-0001-DY05 **PROJECT LOCATION** Port Arthur, TX
DATE STARTED 1/9/2014 10:00:00 AM **COMPLETED** 1/9/2014 3:20:00 PM **GROUND ELEVATION** 11.1139 ft **HOLE SIZE** 8.25 inches
DRILLING CONTRACTOR QRI **NORTHING** 13874239.06 ft **EASTING** 3574955.138 ft
DRILLING METHOD Hollow Stem Auger **DRILLING RIG MAKE/MODEL** Mobile B57 on Gemco Articulated Platform
LOGGED BY Pete Herold **TOTAL DEPTH** 70 ft **GROUND WATER LEVEL** AT TIME OF DRILLING 33.20 ft / Elev -22.09 ft
WEATHER partly cloudy, windy, 50s to 60s **15 MINUTES AFTER DRILLING** 32.90 ft / Elev -21.79 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	MINUS #200 SIEVE CONTENT (%)	COMPRESSION STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
	CH	Fat CLAY, light brown and greenish gray mottled, firm	0	ST	9		2.7		94	27	65	23	42	71	0.96	7	
				ST	7		1.0		86	33							
		with sand seams and cracks 4'-6', stiff	5	ST	7		1.6			29							
		dark gray and greenish gray mottled, firm, with a trace of shell fragments 6'-13'		ST	20		1.25		71	49							
		stiff	10	ST	16		1.75			53							
				NR													
	CL	Lean CLAY with SILT, dark gray, very soft, with sand seams 20'-22'	15	ST	19		1.0		51	91				100	0.21	9	
				NR													
		more sand, with shell fragments 18'-20'		ST	18		0	1.5	91	32	34	17	17	69	0.15	9	16
		less sand, light brown and greenish gray mottled, stiff	20	ST	19		2.0			33							
				NR													
		firm	25	ST	15		1.2			33							
	CH	Fat CLAY, dark gray and greenish gray mottled, firm	30	ST	18		1.1		63	64	66	22	44	98			
				NR													
		more sand, greenish gray, with sand seams 33'-58' and shell fragments 33'-38'	35	ST	19		1.0			44							

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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)
			35								LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX					
	CH	Fat CLAY, dark gray and greenish gray mottled, firm (continued)		ST	19		0.9			36								
			NR															
		less sand, light brown and greenish gray mottled, stiff		ST	18		2.7		90	34					99	1.16	6	
			NR															
		very stiff		ST	19		3.3			35								
			NR															
		with cracks 48'-58', stiff		ST	20		2.9		84	39								
			NR															
		dark gray, stiff		ST	19		1.5			48								
			NR															
		firm		ST	20		1.1			40				89				
			NR															
		greenish gray and light brown mottled, stiff, with abundant shell fragments 63'-68'		ST	18		1.5			30								
			NR															
			ST	19		2.4												

Bottom of borehole at 70.0 feet.