



Quaternary Resource Investigations, LLC
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BORING NUMBER 13-B163

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CLIENT USACE-Galveston District
PROJECT NUMBER W912HY-13-D-0001-DY05
DATE STARTED 1/6/2014 1:15:00 PM **COMPLETED** 1/7/2014 8:15:00 AM
DRILLING CONTRACTOR QRI
DRILLING METHOD Hollow Stem Auger
LOGGED BY Pete Herold **TOTAL DEPTH** 70 ft
WEATHER partly cloudy, windy, 30s to 20s

PROJECT NAME Sabine Neches Placement Area 8
PROJECT LOCATION Port Arthur, TX
GROUND ELEVATION 17.8231 ft **HOLE SIZE** 8.25 inches
NORTHING 13884469.19 ft **EASTING** 3576818.747 ft
DRILLING RIG MAKE/MODEL Mobile B57 on Gemco Articulated Platform
GROUND WATER LEVEL **AT TIME OF DRILLING** 23.00 ft / Elev -5.18 ft
 15 MINUTES AFTER DRILLING 22.90 ft / Elev -5.08 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 (%)	COMPRESSIVE STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
	CH	Fat CLAY, light brown and greenish gray mottled, very stiff, with sand seams 6'-8', cracks 23'-25' and shell fragments 8'-13' stiff firm less sand, greenish gray very stiff more sand, stiff	0	ST	10		4.0		93	30							
				ST	12		1.5			42							
			5	ST	13		2.3		84	35	66	24	42	82	0.84	6	
				ST	19		2.25		90	31							
			10	ST	6		2.0			29							
				ST	18		3.2		89	39							
				NR													
			15	ST	8		1.0		95	23	61	19	42	82	0.75	2	12
				NR													
			20	ST	18		1.5			55							
	CL	dark gray, with clay seams 23'-25' Lean CLAY with SAND, greenish gray, stiff, with sand seams and a trace of shell fragments 25'-27' less sand, greenish gray and light brown mottled, very stiff light brown, with sand seams 33'-35', stiff		NR													
				SS	17	2-2-5 (7)	2.4										
			30	ST	18		3.0			29							
				NR													
				ST	16		2.1		101	21	29	18	11	52			
			35														

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	CL	Lean CLAY with SAND, greenish gray, stiff, with sand seams and a trace of shell fragments 25'-27' (continued) firm	35	○ NR													
			40	■ ST	19		2.75			34							
				○ NR													
			45	■ ST	19		1.7		92	29				98	0.80	10	
				○ NR													
			50	■ ST	19		1.75			40							
				○ NR													
			55	■ ST	19		1.1		75	44				99	0.76	5	
				○ NR													
			60	■ ST	18		1.0			55							
	CH	Fat CLAY, dark gray and light brown, firm dark gray with shell fragments 63'-65', stiff		○ NR													
			65	■ ST	17		1.75										
				○ NR													
			70	■ ST	18		2.4			22							

Bottom of borehole at 70.0 feet.