



Quaternary Resource Investigations, LLC
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BORING NUMBER 13-B171

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CLIENT USACE-Galveston District
PROJECT NUMBER W912HY-13-D-0001-DY05
DATE STARTED 1/14/2014 8:00:00 AM **COMPLETED** 1/14/2014 1:15:00 PM
DRILLING CONTRACTOR QRI
DRILLING METHOD Hollow Stem Auger
LOGGED BY Pete Herold **TOTAL DEPTH** 40 ft
WEATHER clear, light wind, 30s to 50s

PROJECT NAME Sabine Neches Placement Area 8
PROJECT LOCATION Port Arthur, TX
GROUND ELEVATION 12.8227 ft **HOLE SIZE** 8.25 inches
NORTHING 13875383.7 ft **EASTING** 3573175.651 ft
DRILLING RIG MAKE/MODEL Mobile B57 on Gemco Articulated Platform
GROUND WATER LEVEL AT TIME OF DRILLING 9.10 ft / Elev 3.72 ft
 15 MINUTES AFTER DRILLING 4.20 ft / Elev 8.62 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 (%)	ATTERBERG LIMITS	MINUS #200 SIEVE CONTENT (%)	COMPRESSION STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
			0												
	CH	Fat CLAY, light brown, stiff, with shell fragments and cracks 0'-4'		ST	8		1.6			38					
		light brown and greenish gray mottled		ST	8		1.75		79	41					
		dark gray, firm	5	ST	16		1.4			49					
		very soft		ST	15		1.0		64	64	72	25	47	97	0.13 14
			10	ST	19		0	1.6		91					
		with a trace of organics 12'-14'		ST	20		0	1.4							
		firm		ST	21		0	0.9	42	110	146	40	106	100	
		15	ST	20			1.2								
				ST	20		1.1			103					
		very soft		ST	21		0.4	1.4							
		20	ST	21			0	1.4	49	94			100	0.15	10 10
		dark gray and greenish gray mottled, with organic odor 20'-22'		ST	21		0	1.4	49	94			100	0.15	10 10
		more sand, greenish gray, firm, with sand seams 22'-26' and shell fragments 22'-26'		ST	20		1.2								
		stiff	25	ST	19		1.6			46					
	CL	less sand, greenish gray and light brown mottled		ST	19		2.4								
		Lean CLAY with SILT, greenish gray and light brown mottled, stiff, with iron nodules	30	ST	17		2.0		109	21			71		
				ST	18		2.7								
		with sand seams and cracks 32'-40'		ST	19		1.8								
			35												

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											LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX				
	CL	Lean CLAY with SILT, greenish gray and light brown mottled, stiff, with iron nodules (continued) very stiff stiff	35		ST	19		2.7			26						
					ST	17		3.3									
			40		ST	18		2.7									

Bottom of borehole at 40.0 feet.