



Quaternary Resource Investigations, LLC
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BORING NUMBER 13-B159

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CLIENT USACE-Galveston District
PROJECT NUMBER W912HY-13-D-0001-DY05
DATE STARTED 12/4/2013 2:52:00 PM **COMPLETED** 12/5/2013 9:30:00 AM
DRILLING CONTRACTOR QRI
DRILLING METHOD Hollow Stem Auger
LOGGED BY Pete Herold **TOTAL DEPTH** 60 ft
WEATHER cloudy, 70s, windy

PROJECT NAME Sabine Neches Placement Area 8
PROJECT LOCATION Port Arthur, TX
GROUND ELEVATION 10.4011 ft **HOLE SIZE** 8.25 inches
NORTHING 13892639.77 ft **EASTING** 3575815.994 ft
DRILLING RIG MAKE/MODEL Mobile B57 on Gemco Articulated Platform
GROUND WATER LEVEL **AT TIME OF DRILLING** 12.40 ft / Elev -2.00 ft
 15 MINUTES AFTER DRILLING 9.50 ft / Elev 0.90 ft

COPY OF PEGGY LAKE GEOTECH BH - PEGGY LAKE TEMPLATE.GDT - 7/15/14 13:10 - 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 (%)	COMPRESSIVE STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
			0								LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX				
	CH	Fat CLAY, light brown, stiff, with sand seams and cracks 13'-15'		ST	6		1.75			25				88			
				ST	10		1.9		88	32				91	1.34	3	
		very stiff	5	ST	6		3.6		108	16							
		less sand, dark gray, firm		ST	10		1.3			44							
		stiff		ST	13		1.75		77	44	86	27	59	83	1.23	4	8
			10														
				NR													
		more sand, greenish gray		ST	11		1.8			46							
			15														
	CL	Lean CLAY with SILT and SAND, dark gray and light brown, very soft		ST	17		0	1.0	72	54	31	15	16	70			
				NR													
		less sand, greenish gray and light brown mottled, stiff, with shell fragments 18'-23'		ST	14		2.1		98	26							
			20														
				NR													
				ST	20		2.8			23							
			25														
				NR													
		with sand seams 28'-40', firm		ST	20		2.2		102	25	30	18	12	82	0.52	5	
			30														
		light brown, with cracks 33'-40', stiff		ST	20		2.25			33							
			35														

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											LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX				
	CL	Lean CLAY with SILT and SAND, dark gray and light brown, very soft (continued)	35	○ NR													
			40	■ ST	20		1.7			32							
				○ NR													
			45	■ ST	19		1.6		90	33							
				○ NR													
		light brown and greenish gray mottled, firm	50	■ ST	18		1.3			39							
				○ NR													
		greenish gray, stiff	55	■ ST	19		1.5			42							
				○ NR													
		less sand	60	■ ST	18		1.5			52							

Bottom of borehole at 60.0 feet.