



Quaternary Resource Investigations, LLC
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BORING NUMBER 13-B144

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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 2/8/2014 9:30:00 AM COMPLETED 2/8/2014 4:45:00 PM	GROUND ELEVATION 19.108 ft HOLE SIZE 8.25 inches
DRILLING CONTRACTOR QRI	NORTHING 13878957.78 ft EASTING 3568027.521 ft
DRILLING METHOD Hollow Stem Auger	DRILLING RIG MAKE/MODEL Mobile B57 on Gemco Articulated Platform
LOGGED BY Pete Herold TOTAL DEPTH 80 ft	GROUND WATER LEVEL AT TIME OF DRILLING 15.10 ft / Elev 4.01 ft
WEATHER cloudy, windy to light wind, 40s to 50s	 15 MINUTES AFTER DRILLING 11.70 ft / Elev 7.41 ft

COPY OF PEGGY LAKE GEOTECH BH - PEGGY LAKE TEMPLATE.GDT - 7/15/14 13:09 - 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)
											LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX					
	CH	Fat CLAY, dark gray and light brown mottled, stiff, with sand, a trace of organics and cracks 0'-23'	0	ST	9		2.1			55	74	24	50	95				
				ST	10		2.25		75	44								
		dark gray, soft	5	ST	8		0.8		76	43	76	27	49	94	0.39	5		
		with a sand seam 6'-8', stiff		ST	19		1.5			44								
			10	ST	13		2.1		72	48								
				NR														
		very soft		NR														
			15	ST	18		2.0		55	79	120	34	86	99	0.17	4	11	
				NR														
		firm		NR														
			20	ST	14		1.2			80								
				NR														
		more sand, dark gray and greenish gray, soft	25	ST	19		1.1		78	35					74	0.26	6	
		organic odor		ST	21		1.2			49					89			
				NR														
less sand, dark gray	30	ST	20		1.1		58	71					93	0.22	3	17		
		NR																
firm		NR																
	35	ST	20		1.1			79										

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PROJECT NAME Sabine Neches Placement Area 8

PROJECT NUMBER W912HY-13-D-0001-DY05

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 (%)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	MINUS #200 SIEVE CONTENT (%)	COMPRESSIVE STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
	CH	Fat CLAY, dark gray and light brown mottled, stiff, with sand, a trace of organics and cracks 0'-23' (continued)	35	○ NR													
			40	■ ST	21		1.0			56							
		greenish gray, stiff	45	■ ST	19		1.75		100	27	61	20	41	98			
		light brown	50	■ ST	19		1.8			32							
		light brown and greenish gray mottled, firm	55	■ ST	16		2.6		91	34				100	0.96	3	
		very stiff	60	■ ST	17		3.4			37							
		stiff	65	■ ST	20		2.3			30							
		greenish gray, with shell fragments 68'-73', stiff	70	■ ST	18		2.9		102	24				69	1.55	10	
		very stiff	75	■ ST	16		3.1		98	27							
				○ NR													
				○ NR													
				○ NR													
				○ NR													

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	CH	Fat CLAY, dark gray and light brown mottled, stiff, with sand, a trace of organics and cracks 0'-23' (continued)	75	○ NR													
		greenish gray and light brown mottled	80	■ ST	18		3.2			33							

Bottom of borehole at 80.0 feet.