



Quaternary Resource Investigations, LLC
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BORING NUMBER 13-B155

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 11/20/2013 4:44:00 PM **COMPLETED** 11/21/2013 1:00:00 PM **GROUND ELEVATION** 15.891 ft **HOLE SIZE** 8.25 inches
DRILLING CONTRACTOR QRI **NORTHING** 13895037.8 ft **EASTING** 3574134.477 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 19.50 ft / Elev -3.61 ft
WEATHER partly cloudy to cloudy, 60s to 50s, breezy to windy **▽ 15 MINUTES AFTER DRILLING** 13.20 ft / Elev 2.69 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 (%)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	MINUS #200 SIEVE CONTENT (%)	COMPRESSION STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
	CH	Fat CLAY, light brown, stiff, with shell fragments 0'-10' and cracks 0'-6'	0	ST	10		2.5			22							
		greenish gray, firm		ST	16		2.2		103	18				81	0.79	7	
		stiff	5	ST	6		1.75			21							
	SC	Clayey SAND, greenish gray, with sand seams 6'-8', very loose		ST	8.5		0.5	0.9		16	29	13	16	46			
			10	ST	5.5		0.75	1.1	98	20							
	CH	Fat CLAY, dark gray, soft		ST	20		0	1.4	90	25					0.26	4	9
		▽ firm		○ NR													
			15	ST	19		0.75	1.7	67	57	79	28	51		0.74	2	
				○ NR													
		▽	20	ST	19		1.0			34							
				○ NR													
		less sand, greenish gray/light brown mottled, stiff	25	ST	15		2.0		100	25							
				ST	16		2.5		87	36				96	1.35	7	16
				○ NR													
			30	ST	14		2.6			19							
				○ NR													
	CL	CLAY with SAND, light brown, soft	35	ST	15		1.2		103	23				62	0.42	4	

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	CL	CLAY with SAND, light brown, soft (continued) stiff	35	ST	18		2.0			24							
				NR													
		Lean CLAY, light brown, stiff	40	ST	18		1.9		93	28	67	23	44	98			
				NR													
		firm	45	ST	20		1.25			35							
				NR													
		less sand, greenish gray, soft	50	ST	20		0.7	2.0	86	36							
		firm		ST	19		1.1			37							
				NR													
		stiff	55	ST	20		1.4		81	39	63	22	41	100	1.03	14	
				NR													
		firm	60	ST	18		1.25			44							
				NR													
		stiff	65	ST	19		1.9			54							
				NR													
		firm, with a trace of shell fragments 68'-70'	70	ST	20		1.1										

Bottom of borehole at 70.0 feet.