



Quaternary Resource Investigations, LLC
 13588 Florida Blvd
 Baton Rouge, LA 70819
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BORING NUMBER 13-B126

CLIENT _____ PROJECT NAME Peggy Lake Placement Area
 PROJECT NUMBER W912HY-13-D-0001; Task Order 0002 PROJECT LOCATION La Porte, Texas
 DATE STARTED 4/13/2013 11:00:00 AM COMPLETED 4/13/2013 5:30:00 PM GROUND ELEVATION 18.4197 ft HOLE SIZE 8.25 inches
 DRILLING CONTRACTOR Quaternary Resource Investigations, LLC NORTHING 13834665.12 ft EASTING 3219610.839 ft
 DRILLING METHOD Hollow Stem Auger DRILLING RIG MAKE/MODEL Mobile B57 on Gemco Articulated Platform
 LOGGED BY Lamar Melder TOTAL DEPTH 60 ft GROUND WATER LEVEL _____
 WEATHER partly cloudy, warm, 60s - 70s, breezy to windy AT TIME OF DRILLING 16.00 ft / Elev 2.42 ft 4/13/2013 12:00:00 PM

COPY OF PEGG - GEOTECH BH - PEGGY LAKE TEMPLATE.GDT - 10/2/13 10:39 - C:\DOCUMENTS AND SETTINGS\RL - JKT01PEGGY LAKE PLACEMENT AREA 3_9-27-13.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				COMPRESSIVE STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
											LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	MINUS #200 SIEVE CONTENT (%)			
	CH	CLAY, light brown, soft, wet, plastic, with rootlets and SILT layers	0	ST	5		0.75			29							
				ST	16		1.0/3.0			30							
	CL	Silty CLAY, light brown, medium stiffness	5	ST	10		2.5		107	21	66	21	45	77	3.46	6.5	0
		SAND, tan and gray, loose, dry		ST	8					5							
		light brown color, a few clayey pockets	10	SS	12	2-6-6 (12)				7							
	SP	tan and gray color at 12'; dark gray at 14'; damp	15	SS	14	8-18-18 (36)				9				15			
	dark gray and saturated	20	SS	18	2-2-2 (4)					22							
	ML	Silty SAND, dark gray, fine grained, loose, saturated		SS	20	4-2-2 (4)				22				18			
	CH	CLAY, black, soft, wet, plastic, hydrocarbon staining and odor	25	SS	20	3-2-4 (6)	1.0			20							
	SM	SAND, tan, fine to medium grained, saturated, loose		ST	16					21							
	CL	CLAY, black, very soft, wet, plastic		ST	17			2.0		37							
		~2" tan SAND layer with light gray SILT/SAND layers in cracks	30	ST	16			1.0		69							
				ST	16		1.0		75	46	73	21	52	87			
	ML		35														

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 COPY OF PEGG

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)
											LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX					
	ML	Clayey SILT, light gray, saturated, soft/loose, with a few light gray CLAY laminations (continued)	35	ST	18		1.0		89	39								
					ST	17		1.0			25	25	18	7	57			
					40	ST	17			1.0		46						
	CL	Silty CLAY, dark gray, very soft, wet		ST	19		0.75/--	--/4.5		31								
	ML	Clayey SILT, dark gray, saturated, loose, with copious bivalves		ST	20		1.0		104	24								
				45	ST	16			1.0		32							
	CL	Silty CLAY, dark gray, wet, very soft, plastic, with silt pockets		ST	17			3.5	83	39	66	18	48	91	0.61	7.3	12.2	
				50	ST	18		1.0			41							
	CL	Silty CLAY, greenish gray and yellow orange, dry, low plasticity, blocky, with soft pockets		ST	12		2.75			20								
					ST	12		2.5			18							
				55	ST	11		2.5			25							
	CL	CLAY, reddish brown with some greenish gray coloring, dry, very stiff, low plasticity, with black dendrites		ST	12		3.0/4.5			32								
				60	ST	12		4.0										

Bottom of borehole at 60.0 feet.