



Quaternary Resource Investigations, LLC
 13588 Florida Blvd
 Baton Rouge, LA 70819
 Telephone: 225-292-1400
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BORING NUMBER 13-B130

CLIENT _____ PROJECT NAME Peggy Lake Placement Area
 PROJECT NUMBER W912HY-13-D-0001; Task Order 0002 PROJECT LOCATION La Porte, Texas
 DATE STARTED 4/9/2013 2:10:00 PM COMPLETED 4/9/2013 6:45:00 PM GROUND ELEVATION 17.5961 ft HOLE SIZE 8.25 inches
 DRILLING CONTRACTOR Quaternary Resource Investigations, LLC NORTHING 13834784.41 ft EASTING 3219044.12 ft
 DRILLING METHOD Hollow Stem Auger DRILLING RIG MAKE/MODEL Mobile B57 on Gemco Articulated Platform
 LOGGED BY Lamar Melder TOTAL DEPTH 40 ft GROUND WATER LEVEL _____
 WEATHER cloudy, 70s, windy ∇ AT TIME OF DRILLING 12.00 ft / Elev 5.60 ft 4/9/2013 2:45:00 PM

COPY OF PEGG \GTECH BH - PEGGY LAKE TEMPLATE GDT - 10/2/13 10:39 - C:\DOCUMENTS AND SETTINGS\TRU...KTOP\PEGGY 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				MINUS #200 SIEVE CONTENT (%)	COMPRESSIVE STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
											LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX					
	CL	Silty CLAY, brown and gray (soft, damp) with layers of light gray SAND (loose)	0	ST	10		1.25											
	SM	SAND, light brown, dry, very loose, fill with hydrocarbon odor in sand pockets	5	ST	8					10								
	SM	some gray sand, with a few clayey layers		ST	8		1.5			14				42				
	CL	Silty CLAY, brown and SAND, light gray; sand is loose in pockets	10	ST	9		2.0			12	NP	NP	NP	23				
	CL	Sandy CLAY, brown, soft, with SAND pockets		ST	13		1.5			15								
	SM	SAND, gray, saturated, loose		SS	16	3-2-1 (3)				21								
	CH	CLAY, dark gray, wet, very soft, black hydrocarbon stains	15	SS	18			2.0		33								
	SM	SAND, light brown, saturated		ST	20		2.0			23	64	17	47	26				
	SM	Silty CLAY, dark gray and black, soft, wet		ST	8					24								
	SM	SAND, light gray, loose, saturated	20	ST	8					24								
	CH	CLAY, dark gray to black, wet, plastic, very soft, hydrocarbon staining and odor		SS	16	1-0-1 (1)		0.5		76								
	SM	SAND, light gray, very loose, saturated		ST	12					21								
	CH	CLAY, dark gray and black, wet, plastic, very soft, hydrocarbon odor	25	SS	18	1-0-1 (1)		0.5		75								
	CH			ST	16			0.5	55	76	88	25	63	98	0.14	9.2	0	
	CH		30	ST	14			0.5	62	68								
	CH			ST	12			0.5		71								
	CL	CLAY/Silty CLAY, light gray, very soft, wet, plastic, no odor		ST	16			0.75/1.0		38								
	CL		35	ST				0.5										

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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)	ATTERBERG LIMITS								
										MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	MINUS #200 SIEVE CONTENT (%)	COMPRESSIVE STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)	
	CL		35	ST	10			0.5		30								
	ML	Clayey SILT, dark gray, plastic, very soft, wet, with bivalve shells		ST	13			0.75		25								
		some parts have higher clay content (silty CLAY)		40	ST	20			0.75/1.25									

Bottom of borehole at 40.0 feet.

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