



Quaternary Resource Investigations, LLC
 13588 Florida Blvd
 Baton Rouge, LA 70819
 Telephone: 225-292-1400
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BORING NUMBER 13-B116

CLIENT _____ PROJECT NAME Peggy Lake Placement Area
 PROJECT NUMBER W912HY-13-D-0001; Task Order 0002 PROJECT LOCATION La Porte, Texas
 DATE STARTED 4/14/2013 2:30:00 PM COMPLETED 4/15/2013 2:15:00 PM GROUND ELEVATION 19.0346 ft HOLE SIZE 8.25 inches
 DRILLING CONTRACTOR Quaternary Resource Investigations, LLC NORTHING 13837473.45 ft EASTING 3215605.094 ft
 DRILLING METHOD Hollow Stem Auger DRILLING RIG MAKE/MODEL Mobile B57 on Gemco Articulated Platform
 LOGGED BY Terri Russin TOTAL DEPTH 60 ft GROUND WATER LEVEL _____
 WEATHER partly cloudy, 60s - 70s, windy AT TIME OF DRILLING 8.00 ft / Elev 11.03 ft 4/14/2013 3:14:00 PM

COPY OF PEGG - GEOTECH BH - PEGGY LAKE TEMPLATE GDT - 10/2/13 10:39 - C:\DOCUMENTS AND SETTINGS\TRL - 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				COMPRESSIONIVE STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
											LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	MINUS #200 SIEVE CONTENT (%)			
	CL	Silty CLAY, light brown, slightly moist, medium to high plasticity	0	ST	7		2.5										
	SP	SAND, light brown, no plasticity, slightly moist, with rootlets															
	CL	Silty CLAY, yellow orange to olive gray, slightly moist to slightly dry, medium plasticity, with caliche		ST	17		0.9/3.0			33							
	CL		5	ST	10		>4.5		98	26	95	26	69	95	3.59	2.2	0
				ST	12		2.0			27							
		SAND, light brown/yellow orange, wet, medium grained, no plasticity, with shell fragments		SS	18	5-10-19-22 (29)	1.3			26				49			
	SP	laminations, rootlets, a piece of decaying wood		SS	14	6-6-4-6 (10)	0.75			19							
			15														
	CL	Silty CLAY, yellow orange, very moist, medium to high plasticity with caliche		SS	15	0-1-2-3 (3)	0.75			33				89			
			20	ST	17		0.5			38							
				ST	21		0.4/1.1		91	32	73	24	49	95			
	ML	Clayey SILT, olive gray, very moist, medium plasticity		ST	18		0/0.2	0.3/3.8		58							
	CH	CLAY, olive gray to black, very moist, medium to high plasticity, hydrocarbon odor, silt-lined crack	25	ST	21		0/0.5	2.5/--	55	71							
				ST	21		0/0.8	0.2/--		43							
	CL	Silty CLAY, yellow orange, moist, medium to high plasticity, with caliche with shell fragments and light gray mottles		ST	19		0.6/1.0		96	27					0.61	2.7	7.1
			30														
	CH	CLAY, olive gray, moist, soft, medium to high plasticity		ST	20		0.7/0	--/2.5	83	27	113	33	80	66	0.35	1.5	0
				ST	21		0.4/0.5			35							
	SP	SAND, olive gray very fine grained, moist, no plasticity, with small bits of decaying wood															
	ML		35			0-0-0-4											

(Continued Next Page)



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											LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX							
ML		Clayey SAND and clayey SILT, olive gray, wet to very moist, little to no plasticity, with silt-lined cracks, cracks easily, laminated (continued)	35	SS	24	(0)	0	0.8												
				ST	20			0.2	1.5		25					38				
				ST	21			0	0.8											
			40	SS	24	2-4-3-4 (7)	0	1.8		24										
				ST	21			0	0.4		27									
			45	ST	13			0	0.6											
				ST	21			0	2.0		35						85			
				ST	21			0	1.5		27									
			50	ST	20			0	1.3											
				ST	21			0	1.0	102	27									
			55	ST	5			0	0.2		24									
				SS	24	2-2-1-5 (3)	0	0.1		22										
	SS	20	1-4-5 (9)	0	0															
			60	Bottom of borehole at 60.0 feet.																

.jKTOPIEGGY LAKE PLACEMENT AREA 3. 9-27-13.GPJ

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