



Quaternary Resource Investigations, LLC
 13588 Florida Blvd
 Baton Rouge, LA 70819
 Telephone: 225-292-1400
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BORING NUMBER 13-B131

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 9:00:00 AM COMPLETED 4/9/2013 1:30:00 PM GROUND ELEVATION 15.3241 ft HOLE SIZE 8.25 inches
 DRILLING CONTRACTOR Quaternary Resource Investigations, LLC NORTHING 13834626.68 ft EASTING 3218703.215 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 22.00 ft / Elev -6.68 ft 4/9/2013 10:20:00 AM

COPY OF PEGG E GEOTECH BH - PEGGY LAKE TEMPLATE GDT - 10/2/13 10:39 - C:\DOCUMENTS AND SETTINGS\RL J\KTOIPEGGY 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, dry, low plasticity, with SAND pockets and grass roots wet, medium plasticity with gray SAND (damp, crumbles) and rootlets	0	ST	6		1.25											
			1	ST	7		1.5				28							
			5	ST	9		1.5		100	26	32	14	18	62	0.51	14.9	0	
			6	ST	9		1.0					22						
	SC-SM	Clayey SAND/Sandy CLAY, light gray, wet, very soft, medium clay content, black pockets, loose in pockets	10	ST	7		1.0			21				51				
			11	ST	13		0.75		103	21								
			12	ST	10		0.75				22							
	CL	Silty/fine sandy CLAY, dark gray, wet, very soft, plastic, with black inclusions	15	ST	13			2.0	99	20	44	14	30	62	1.91	12.7	6.1	
			16	ST	14			2.0			20							
	CL	SAND/CLAY mixture, light brown and gray, soft, damp, loose in pockets, laminated, parts along laminations	20	ST	14		1.75			21								
			21	ST	13		1.0				17							
	SM	SAND, light gray, fine grained, wet, loose, black inclusions, little CLAY content	25	ST	12					42				67				
			26	SS	15		1-0-1 (1)				20							
	CH	CLAY, black and gray, wet, very soft, hydrocarbon impacted with a few SAND pockets	27	SS	18		1-0-1 (1)		2.0	51								
			28	ST	10				1.25			108	26	82	97			
	CH	CLAY, dark gray with sand pockets, damp, plastic, very soft no sand pockets	30	ST	8			1.25		66								
			31	ST	14				1.0		33							
	CH		35															

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PROJECT NUMBER W912HY-13-D-0001; Task Order 0002 PROJECT LOCATION La Porte, Texas

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				
	CH	CLAY, dark gray with greenish gray pockets, very soft, wet, with white nodular layers and pockets (continued)	35	ST	21		1.0	1.0	92	32	46	15	31	0.23	15.3	0	
				ST	10		1.5			38							
	CL	Silty CLAY, greenish gray, light gray and yellow orange mottled, medium stiff, damp, low plasticity	40	ST	14		2.5										

Bottom of borehole at 40.0 feet.

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