



Quaternary Resource Investigations, LLC
13588 Florida Blvd
Baton Rouge, LA 70819
Telephone: 225-292-1400
Fax: 225-292-1404

BORING NUMBER 13-B107

PAGE 1 OF 1

CLIENT _____ PROJECT NAME Peggy Lake Placement Area

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

DATE STARTED 4/6/2013 9:53:00 AM COMPLETED 4/6/2013 3:55:00 PM GROUND ELEVATION 14.7214 ft HOLE SIZE 8.25 inches

DRILLING CONTRACTOR Quaternary Resource Investigations, LLC NORTHING 13834881.01 ft EASTING 3216627.053 ft

DRILLING METHOD Hollow Stem Auger DRILLING RIG MAKE/MODEL Geoprobe 6610DT

LOGGED BY Terri Russin TOTAL DEPTH 30 ft GROUND WATER LEVEL _____

WEATHER cloudy to partly sunny, cool, 60s - 70s, windy AT TIME OF DRILLING 6.00 ft / Elev 8.72 ft 4/6/2013 10:37:00 AM

J:\TOP\PEGGY LAKE PLACEMENT AREA\3. 9-27-13.GPJ

J:\GEOTECH BH - PEGGY LAKE TEMPLATE.GDT - 10/2/13 10:39 - C:\DOCUMENTS AND SETTINGS\TR

COPY OF PEGC

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 (%)	COMPRESSION STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
											LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX				
	ML	Clayey SILT, light brown, slightly moist, low plasticity, crumbly, cracked	0	ST	21		0.3/1.5							93			
	CL	Silty CLAY, light brown-yellow orange-olive gray, slightly moist, medium plasticity, with caliche, crumbly, cracked		ST	11		0.75/1.7			31							
	CL	Silty CLAY, light brown, medium plasticity, moist, soft, with caliche very moist, with black ziptie	5	ST	10		1.1/1.0		92	31	67	20	47	94	0.8	2.6	0
				ST	6		0.4/0.75		31								
	CH	CLAY, yellow orange, moist, medium-high plasticity	10	ST	12		0.6			30							
	CL	Silty CLAY, light brown to yellow orange, wet, medium plasticity		ST	22		0/1.15	1.2/--	95	28							
	SP	Silty CLAY, olive gray, moist, medium plasticity SAND, light brown to olive gray, medium grained, wet with rootlets and wood very fine grained and laminated (olive gray and black)		SS	16		0.65			19				17			
	CH	CLAY, dark gray (overall) - light brown matrix with black and dark gray inclusions (hydrocarbon impact), very moist, medium to high plasticity	15	ST	18		<0.25	0.7		67							
	CL	Silty CLAY, olive gray (overall), light brown with black stains, very moist, medium plasticity		ST	22		<0.25	0.2/1.3	61	65							
	CH	CLAY, olive gray, very moist, medium-high plasticity	20	ST	23		<0.25	0.5/1.3		57				92			
	CH	CLAY, black, very soft, very moist, high plasticity with strong hydrocarbon odor		ST	21		<0.25	0.6/0.7		90							
	CH	CLAY, olive gray to light brown color gradation with depth, moist, medium-high plasticity, soft		ST	22		<0.25	0.8/0.5		81	107	34	73	98			
	CH	CLAY, light brown, medium-high plasticity, very moist, soft, with wood fragments; peaty	25	ST	22		<0.25	0.5/0.4									
	ML	SILT, light brown with wood fragments, low plasticity, very moist		ST	20		<0.25	0.6/0.4		75							
	CL	Silty CLAY, olive gray with wood fragments, wet, very soft, medium plasticity	30	ST	22		<0.25	--/1.3									

Bottom of borehole at 30.0 feet.