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BORING NUMBER 13-B128

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CLIENT _____ PROJECT NAME Peggy Lake Placement Area
PROJECT NUMBER W912HY-13-D-0001; Task Order 0002 PROJECT LOCATION La Porte, Texas
DATE STARTED 3/16/2013 1:15:00 PM COMPLETED 3/17/2013 11:20:00 AM GROUND ELEVATION 12.7304 ft HOLE SIZE 8.25 inches
DRILLING CONTRACTOR Quaternary Resource Investigations, LLC NORTHING 13833940.56 ft EASTING 3219059.613 ft
DRILLING METHOD Hollow Stem Auger DRILLING RIG MAKE/MODEL Geoprobe 6610DT
LOGGED BY Terri Russin TOTAL DEPTH 31 ft GROUND WATER LEVEL _____
WEATHER sunny, cool, 50s - 70s, windy ☒ AT TIME OF DRILLING 7.00 ft / Elev 5.73 ft 3/16/2013 2:10:00 PM
sunny, cool, 50s - 70s, windy

COPY OF PEGG J:\GEO TECH BH - PEGGY LAKE TEMPLATE GDT - 10/2/13 10:39 - C:\DOCUMENTS AND SETTINGS\TRU... J:\KTO\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 (%)	COMPRESSION STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
	CL	Silty CLAY, light brown, damp (dry at top), medium plasticity, a few plant roots	0	ST	10		0.75			42					
	CH	CLAY, light brown grading to yellow orange, moist, some drier inclusions at top, medium to high plasticity, with 4" black hydrocarbon stained soft clay at the top		ST	18		0/0.7			55					
	CL	SILT/CLAY mix, light brown, moist, high plasticity (clay), with wood, voids and black clay as above	5	ST	16		0.1	1.6		45	94	30	64	82	
	CH	CLAY, light brown, damp, high plasticity, with some black hydrocarbon stained clay		ST	24		0.2	1.8		30					
	SP	SAND, light brown very fine grained, very moist to wet, no plasticity		SS	13		0.1	0.6		25	29	13	16	38	
	SC-SM	Clayey SAND, light brown, very wet, little to no plasticity	10	SS	24		0.1	1.2							
	SP	SAND, olive gray, wet, no plasticity, with black staining and a slight hydrocarbon odor, with a shell		ST	23		2.35/0.4	0.9/0.7		29					
	CH	light brown	15	ST	16		0	0.4							
		SAND, light brown, wet, no plasticity													
		CLAY, light brown, moist, plastic		SS	24		3.3			15				25	
		SAND, light brown, wet, no plasticity, with hydrocarbon staining and odor													
	SP		20	ST	13		0.16	0.4		20					
			25	ST	0										
	SP-SC	SAND/CLAY mix (mostly SAND), light brown, wet, the clay is black and hydrocarbon impacted		ST	7		0.14	1.4		62					
	SC-SM	Silty SAND, olive gray, wet, low plasticity, with a little olive gray CLAY mixed in		ST	5		0.35	0.7		32			45		
	CL	Sandy CLAY, olive gray, wet, with black hydrocarbon impacted clay	30	ST	12		0.05	0.4							

Bottom of borehole at 31.0 feet.