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BORING NUMBER 13-B109

CLIENT _____ PROJECT NAME Peggy Lake Placement Area
 PROJECT NUMBER W912HY-13-D-0001; Task Order 0002 PROJECT LOCATION La Porte, Texas
 DATE STARTED 3/15/2013 11:30:00 AM COMPLETED 3/15/2013 5:12:00 PM GROUND ELEVATION 13.8688 ft HOLE SIZE 8.25 inches
 DRILLING CONTRACTOR Quaternary Resource Investigations, LLC NORTHING 13835335.36 ft EASTING 3216396.895 ft
 DRILLING METHOD Hollow Stem Auger DRILLING RIG MAKE/MODEL Geoprobe 6610DT
 LOGGED BY Terri Russin TOTAL DEPTH 30 ft GROUND WATER LEVEL _____
 WEATHER sunny, cool, 50s - 70s, windy AT TIME OF DRILLING 6.00 ft / Elev 7.87 ft 3/15/2013 12:15:00 PM
sunny, cool, 50s - 70s, windy

.E: GEOTECH BH - PEGGY LAKE TEMPLATE GDT - 10/2/13 10:39 - C:\DOCUMENTS AND SETTINGS\STR...
 .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					
	CH	CLAY, yellow orange, blocky, dry on top, high plasticity dark gray and yellow orange color, moist, very soft	0	ST	5		0.75/0	-/-1.7										
	SM	Silty SAND, light brown, low plasticity, moist		ST	20		0.4/0	-/-0.4	92	25	35	14	21	52				
	CH	CLAY, black, very soft, high plasticity	5	ST	19		0.25/0	1.1/0.6		53								
	SM	Silty SAND, light brown, low plasticity, wet, with wood inclusions		ST	20		0	0.7		28								
	SP-SC	SAND, light brown clayey, low plasticity, wet, black staining, wood fragments, some black clay inclusions	10	ST	21		0	0.8		29				41				
	CL	Silty CLAY, dark gray (lots of black staining), wet, with hard yellow orange clay inclusions and wood fragments		ST	17		0.3/0	-/-0.9		86								
	CH	CLAY, dark gray to black, very moist to wet, strong hydrocarbon odor, high plasticity, with yellow orange clay inclusions	15	ST	17		0	0.8		82								
			ST	23		0	0.5		88									
			ST	23	20	0	0.3	45	106	110	30	80						
			ST	21		0	0.3		103									
	CH	CLAY, dark gray, moist, soft, high plasticity, slight hydrocarbon odor olive gray color	25	ST	24		0	0.6		98								
			ST	23		0	0.6											
			ST	22		0	0.5		98									
			ST	22	30	0	0.5											

Bottom of borehole at 30.0 feet.

COPY OF PEGC