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# BORING NUMBER 13-B123



**CLIENT** _____ **PROJECT NAME** Peggy Lake Placement Area

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

**DATE STARTED** 3/19/2013 4:15:00 PM **COMPLETED** 3/20/2013 2:10:00 PM **GROUND ELEVATION** 13.3819 ft **HOLE SIZE** 8.25 inches

**DRILLING CONTRACTOR** Quaternary Resource Investigations, LLC **NORTHING** 13835631.29 ft **EASTING** 3218800.123 ft

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

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

**WEATHER** thunderstorm, cloudy to sunny, cool, 60s, windy ▽ **AT TIME OF DRILLING** 12.00 ft / Elev 1.38 ft 3/20/2013 9:40:00 AM

| 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: LIQUID LIMIT | ATTERBERG LIMITS: PLASTIC LIMIT | ATTERBERG LIMITS: PLASTICITY INDEX | MINUS #200 SIEVE CONTENT (%) | COMPRESSIVE STRENGTH (tsf) | FAILURE STRAIN (%) | CONFINING PRESSURE (psi) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CL | Silty CLAY, light brown, slightly moist grading to moist with depth, medium plasticity, cracked | 0 | ST | 10 | | 1.9/0.8 | | | | | | | | | | |
| | | black stained clay mixed in with the silty clay | | ST | 19 | | 3.1/0.9 | | | 33 | 98 | 31 | 67 | 73 | | | |
| | SM | Silty SAND, yellow orange, moist, low plasticity | | | | | | | | | | | | | | | |
| | CL | Silty CLAY, olive gray, moist, medium plasticity | 5 | ST | 20 | | 0/2.2 | 1.5/-- | | 30 | | | | | | | |
| | CH | layer of rocks CLAY, yellow orange, slightly moist, medium high plasticity, with caliche | | ST | 21 | | 0/2.8 | 1.4/-- | 95 | 31 | | | | 89 | 2.89 | 4.5 | 0 |
| | CL | Silty CLAY, yellow orange clay grading to light gray, slightly moist, medium to high plasticity, with caliche and shell fragments | 10 | ST | 10 | | 1.6/1.05 | | | | 33 | 12 | 21 | 57 | | | |
| | SP | SAND, light gray, moist, with shell fragments | | ST | 12 | | 0.5 | | | 20 | | | | | | | |
| | CL | SAND and CLAY, non-uniform mix, light gray, wet, none to medium/high plasticity, with bivalves | | ST | 20 | | 1.55 | | | 19 | | | | | | | |
| | | | 15 | SS | 24 | | 0.3/0.8 | | | 35 | | | | 86 | | | |
| | SP | SAND, light gray, wet, no plasticity, with wood fragments and hydrocarbon staining and odor, slightly laminated | | SS | 24 | | 1.2 | | | 18 | | | | | | | |
| | | | | SS | 24 | | 0.8/1.6 | | | 22 | | | | | | | |
| | CH | CLAY, black, moist, high plasticity, with hydrocarbon odor | 20 | | | | | | | | | | | | | | |
| | SP | | | | | | | | | | | | | | | | |
| | CH | SAND, light brown, wet, no plasticity | | ST | 19 | | 0.25/0 | 0.6/2.4 | | 36 | | | | 69 | | | |
| | SP-SC | CLAY, black, moist, high plasticity, with hydrocarbon odor | | | | | | | | | | | | | | | |
| | CH | Clayey SAND, black stained light brown, wet, very fine grained, no plasticity | | SS | 24 | | 0/2.2 | 2.5/-- | | 58 | | | | | | | |
| | SP | CLAY, black, moist, high plasticity, with hydrocarbon odor | 25 | SS | 21 | | 0.5 | | | 18 | | | | | | | |
| | | SAND, light gray, wet, no plasticity, with occasional shell and some black hydrocarbon staining | | SS | 24 | | 2.0/3.6 | | | 15 | | | | | | | |
| | CL | SAND and CLAY, light brown to light gray very fine grained SAND with CLAY laminations, moist, medium plasticity | 30 | SS | 24 | | 1.75/0 | --/2.0 | | | | | | | | | |

Bottom of borehole at 30.0 feet.

COPY OF PEGG...E 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