

ALEXANDER ISLAND BORING SUMMARY SHEET

BORING ID:	<u>13-B28</u>
BORING TYPE:	<u>Borrow Source</u>
DEPTH:	<u>15'</u>
ELEVATION:	<u>24.74'</u>
X (US SURVEY FT):	<u>3225689.17</u>
Y (US SURVEY FT):	<u>13832584.94</u>
DEPTH TO WATER:	<u>2.15'</u>

Client: USACE-Galveston District Boring: 13-B28
 Date/Time Drilling Begun: 12.5.13/1428 Date/Time Drilling Ended: 12.5.13/1535
 Driller: Jason New Logger: Eddie Ficker Designated X (Easting): Long: -95.0381860
 Drill Rig: Mobile B57 Designated Y (Northing): Lat: 29.7253713 Z (Elevation):
 Total depth: 15 Initial Water Encounter (Depth, date/time): 3.2 ft, 12.5.13/1442 Water Depth (15 min.): 2.15

428
 46"
 Spoil
 535
 END

Feet	USCS Log	Sample Interval (ft)	Amount Material Obtained (in)	Sample Type Blow Counts	Number of Tubes	Pocket Pene. (tsf)	Shear Strength (tsf)	Description (SOIL TYPE, color, moisture, plasticity, consistency, density, inclusions, etc.)
0	SM	0-2	15	ST	1B	-	-	Silty SAND (F-M), V. light orangeish Brown, Moist. Roots common to 8". V. Loose
2-4		3.5-5	12	SS	1B			S.A.A. turning light Gray, slightly clayey, Wet V. Loose
5	OH	4-6				0.25	0.4	CLAY with fine sand, Dark Gray, high plasticity
5-7		8-8	∅	ST	--	--	--	No Recovery
7-9	SC	8-10	12	ST	1B	-	-	Silty clayey SAND (F-C), Wet, Carbonaceous
9-10	SC	9-10	16	SS	1B	-	-	SAA Light Grayish Brown, SA is F-M
10-12	SM	10-12	14	ST	1B	-	-	9'9" to 10' CLAY, Dark Gray, Moist, High Mast. → No penetration or recovery 10' to 11' → Light Gray, Silty, clayey SAND, Wet, V. Loose (SC)
11-12								11-12 Light Grayish Brown Silty SAND (F-M), Wet, Carbonaceous, V. Loose
13-15		13-15	16	SS	1B	-	-	S.A.A.

4'6" to
 7.0'
 shear strength recovery
 V. Loose

Weather: Windy, Overcast, ~55°F
 Comments: S.A.A. = same as before plast. = plasticity V = Very (F-C) = fine to coarse grained

USCS Log Legend:



US Army Corps of Engineers, Southwestern Division
 Galveston District
 2000 Fort Point Road/P.O. Box 1229
 Galveston, TX 77553-1229

Alexander Island
 Houston Ship Channel
 Baytown, TX



Quaternary Resource Investigations, L.L.C.
 Government & Industry in Harmony with the Environment
 13588 Florida Boulevard, Baton Rouge, Louisiana 70819

COPY OF PEGGY LAKE GEOTECH BH - PEGGY LAKE TEMPLATE GDT - 4/4/14 15:03 - F:\QRI DATA\TECHNICAL\JOBS (CURRENT)\AGE - GALVESTON\2012-12-20 GEOTECHNICAL\CONTRACT\TASK ORDER DY06 2013-09-10 ALEXANDER ISLAND\DELIVERABLES\ALEX



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BORING NUMBER 13-B28

CLIENT USACE-Galveston District **PROJECT NAME** Alexander Island
PROJECT NUMBER W912HY-13-D-0001-DY06 **PROJECT LOCATION** Alexander Island, Baytown, TX
DATE STARTED 12/5/2013 2:28:00 PM **COMPLETED** 12/5/2013 3:35:00 PM **GROUND ELEVATION** 24.7447 ft **HOLE SIZE** 8.25 inches
DRILLING CONTRACTOR QRI **NORTHING** 13832585 ft **EASTING** 3225689 ft
DRILLING METHOD Hollow Stem Auger **DRILLING RIG MAKE/MODEL** Mobile B57 on Gemco Articulated Platform
LOGGED BY Eddie Ficker **TOTAL DEPTH** 15 ft **GROUND WATER LEVEL** ▽ **AT TIME OF DRILLING** 3.20 ft / Elev 21.54 ft
WEATHER cloudy, mid 50s, windy **24 HOURS AFTER DRILLING** ▽ 2.15 ft / Elev 22.59 ft

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				
	SM	Silty SAND; fine to medium grained, very light orangish brown, moist, very loose, roots common to 8" light gray, slightly clayey, wet	0	ST	15		-			22				29			
				NR	0												
	OH	CLAY; dark gray, high plasticity, with fine sand	5	SS	12	1-1-1 (2)	0.25	0.4		46							
				ST	0												
	SM	Silty SAND; fine to coarse grained, dark gray, wet, carbonaceous light grayish brown, fine to medium grained		ST	12		-			28			34				
				SS	13	1-1	-				33						
	CH/SC	CLAY; dark gray, moist, high plasticity Silty clayey SAND; light gray, wet, very loose	10	ST	12		-			27							
				NR	0												
	SM	Silty SAND; fine to medium grained, light grayish brown, wet, very loose, carbonaceous		SS	16	0-3-4 (7)	-			31							

Bottom of borehole at 15.0 feet.

