

ALEXANDER ISLAND BORING SUMMARY SHEET

BORING ID:	<u>13-B16</u>
BORING TYPE:	<u>Borrow Source</u>
DEPTH:	<u>15'</u>
ELEVATION:	<u>25.72'</u>
X (US SURVEY FT):	<u>3224743.97</u>
Y (US SURVEY FT):	<u>13831628.99</u>
DEPTH TO WATER:	<u>2.3'</u>

Contract No. W912HY-13-D-0001 D406

Client: USACE-Galveston District Boring: 13-B16
 Date/Time Drilling Begun: 12.22.13/925 Date/Time Drilling Ended: 12.22.13/1050
 Driller: Jason New Logger: Eddie Ficker Designated X (Easting): 3224744
 Drill Rig: Mobile B57 Designated Y (Northing): 13831629 Z (Elevation):
 Total depth: 15.5 Initial Water Encounter (Depth, date/time): 2.9 ft., 12.22.13/942 Water Depth (15 min.): 2.3 ft

925
↑
Dredge Spoil
↓
1050

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	SC	0-2	20	ST	1 _B	-	-	Clayey, Silty SAND (F-C), Moist to Wet, V. Light Grayish Loose, Common shell frags, Brown to Gray
		2-4						
5	SM	3.5-5 4-6	12	SS 5-8-4	1 _B	-	-	Silty SAND (F-C), Gray, Wet, Loose
		6-8						
10	CH	8.5-10 8-10	12	SS WOR-1-1	1 _B	φ to 0.15	0.4	Silty CLAY, Light Brownish Gray, Moist, High Plast., Soft
	CH/SM	10-12	14	ST	1 _T	φ	0.35	S.A.A.; Mixed V. Light Brown, Silty SAND (F-C), Wet, Abundant shell frags
13'9"	SM	12-14	14	ST	2 ST _B	φ	0.3	S.A.A. to 13'9" V. Silty SAND (F-M), Gray, Wet, slightly Carbonaceous
14'	SC	14-		SS				14' to 15'2": V. Silty, Clayey SAND (F-M), Wet, Loose
15'2"	CL	15.5	12	SS 1-2-2	1 _B	-	-	Silty CLAY, Brownish Gray, Moist, Soft, Carbonaceous
15'6"								
20								

Weather: Slight Breeze, 1-60°F, Partly Cloudy
 Comments: F-C = fine to coarse grained WOR = weight of rods V. = very S.A.A. = Same as above
 F-M = fine to Medium grained Plast = plasticity Frags = fragments B=bag, T=tube

USCS Log Legend:

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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-B16
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CLIENT USACE-Galveston District **PROJECT NAME** Alexander Island
PROJECT NUMBER W912HY-13-D-0001-DY06 **PROJECT LOCATION** Alexander Island, Baytown, TX
DATE STARTED 12/22/2013 9:25:00 AM **COMPLETED** 12/22/2013 10:50:00 AM **GROUND ELEVATION** 25.7174 ft **HOLE SIZE** 8.25 inches
DRILLING CONTRACTOR QRI **NORTHING** 13831629 ft **EASTING** 3224744 ft
DRILLING METHOD Hollow Stem Auger **DRILLING RIG MAKE/MODEL** Mobile B57 on Gemco Articulated Platform
LOGGED BY Eddie Ficker **TOTAL DEPTH** 15.5 ft **GROUND WATER LEVEL** ▽ **AT TIME OF DRILLING** 2.90 ft / Elev 22.82 ft
WEATHER partly cloudy, 60, slight breeze **24 HOURS AFTER DRILLING** ▽ 2.30 ft / Elev 23.42 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						
	SC	Clayey silty SAND; fine to coarse grained, very light grayish brown to gray, moist to wet, loose, with common shell fragments	0	ST	20		-			16									
					NR	0													
	SC	Clayey SAND; fine to coarse grained, gray, wet, loose	5	SS	12	5-8-4 (12)	-			83				18					
					NR	0													
	CH	Silty CLAY; light brownish gray, moist, high plasticity, soft light brownish gray, moist, high plasticity, soft; mixed with very light brown silty SAND (fine to coarse grained), wet, with abundant shell fragments	10	SS	12	0-1-1 (2)	0-0.25	0.4		62	98	29	69						
				ST	14		0	0.35											
				ST	14		0	0.3			22								
	SM	Very silty SAND; fine to medium grained, gray, wet, slightly carbonaceous	15	SS	12	1-2-2 (4)	-			30									
	CL										Very silty clayey SAND; fine to medium grained, wet, loose Silty CLAY; brownish gray, moist, soft, carbonaceous								

Bottom of borehole at 15.5 feet.

