

# ALEXANDER ISLAND BORING SUMMARY SHEET

<b>BORING ID:</b>	<u>13-B05</u>
<b>BORING TYPE:</b>	<u>Borrow Source</u>
<b>DEPTH:</b>	<u>15'</u>
<b>ELEVATION:</b>	<u>26.71'</u>
<b>X (US SURVEY FT):</b>	<u>3224798.15</u>
<b>Y (US SURVEY FT):</b>	<u>13830185.96</u>
<b>DEPTH TO WATER:</b>	<u>4.1'</u>

Client: USACE-Galveston District Boring: 13-B05  
 Date/Time Drilling Begun: 12.18.13 / 1030 Date/Time Drilling Ended: 12.18.13 / 1150  
 Driller: J. New Logger: E. Ficker Designated X (Easting): 3224798  
 Drill Rig: Mobile B57 Designated Y (Northing): 13830186 Z (Elevation):  
 Total depth: 15.0 Initial Water Encounter (Depth, date/time): 4.2 Ft, (12.18.13/10:51) Water Depth (15 min.): 4.1 Ft

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	CH/SC	0-2	8	ST	1T	-	-	Light Orangeish Brown & Light Gray, Silty, Sandy, CLAY, Moist, High Plasticity, 1/6"
1.6"	SM	2-4	9	ST	1B	-	-	1/6" Silty SAND (F-C) Moist, Light Gray, v. Loose → SAA
5	SM	4-8 5.5	12	SS 4-4-4	1B	-	-	→ SAA, Wet
6-8								
10	SM	8-10 8.5-10	13	SS Wor-1-2	1B	-	-	Clayey from 8'6" to 9' SAA, Slightly Carbonaceous, V. Silty, Dark Gray
15	SM	13.5 15.0	13	SS 4-5-9	1B	-	-	S.A.A.
20								

Weather: Sunny, slight breeze, ~60°F  
 Comments:

F-C = fine to coarse grained S.A.A = same as above V = very Wor = weight of rods B = bag, T = tube

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

**QRI** 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 15:02 - 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-B05**  
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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** 12/18/2013 10:30:00 **COMPLETED** 12/18/2013 11:50:00 **GROUND ELEVATION** 26.7119 ft **HOLE SIZE** 8.25 inches  
**DRILLING CONTRACTOR** QRI **NORTHING** 13830186 ft **EASTING** 3224798 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 4.20 ft / Elev 22.51 ft  
**WEATHER** sunny, 60, slight breeze **▽ 24 HOURS AFTER DRILLING** 4.10 ft / Elev 22.61 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					
	CL	CLAY; light orangish brown and light gray, moist, high plasticity	0	ST	8		-			30	29	13	16	80				
		Silty SAND; fine to coarse grained, light gray, moist, very loose		ST	9		-			16								
	SM	wet		5	SS	12	4-4-4 (8)				20							
					NR	0												
					SS	13	0-1-2 (3)					26						
					NR	0												
			15	SS	13	4-5-9 (14)				28								

Bottom of borehole at 15.0 feet.









