

ALEXANDER ISLAND BORING SUMMARY SHEET

BORING ID:	<u>13-B25</u>
BORING TYPE:	<u>Borrow Source</u>
DEPTH:	<u>15'</u>
ELEVATION:	<u>23.39'</u>
X (US SURVEY FT):	<u>3226468.10</u>
Y (US SURVEY FT):	<u>13832757.96</u>
DEPTH TO WATER:	<u>8.2'</u>

Client: USACE-Galveston District Boring: 13-B25
 Date/Time Drilling Begun: 12.6.13/1215 Date/Time Drilling Ended: 12.6.13/1355
 Driller: Jason New Logger: Eddie Ficker Designated X (Easting): Long-95.0357145
 Drill Rig: Mobile B57 Designated Y (Northing): Lat 29.7257742 Z (Elevation):
 Total depth: 15.0 Initial Water Encounter (Depth, date/time): 10.2 ft 12.6.13/1318 Water Depth (15 min.): 8.2 ft

1215
 Levee Material
 Depth
 1355 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.)
0-2	SC	0-2	17	ST	1	1.25	-	Clayey Sand, Light Grayish Brown Med. Dense, Common Roots
2-4	CH	2-4	15	ST	1	1.5	-	CLAY - Red - Brown. High Plast. Stiff Slightly sandy
4-6	CH	4-6	10	ST	1	0.75	-	S.A.A. Med. Dense, SAND (E-C) Moist
6-8	CH	6-8	15	ST	1	0.5	-	SAD Mined w/ dark green SM, Moist, Med. Stiff
8-10	SM	8-10	17	ST	1	-	-	Silt, SAND color, gray, Med. Loose Common shell frags
10-15	SM	10-15	18	ST WOR-7.7	1	-	-	S.A.A.; Gray, Wet, Med. Dense
15-20								

slightly clayey

Weather: ~35°F, Bards of Rain, Windy
 Comments: Med.=medium Plast.=plasticity S.A.A.=same as before Frags=fragments

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



Quaternary Resource Investigations, LLC
 13588 Florida Boulevard
 Baton Rouge, LA 70820
 Telephone: 225-292-1400
 Fax: 225-292-1404

BORING NUMBER 13-B25

CLIENT USACE-Galveston District **PROJECT NAME** Alexander Island
PROJECT NUMBER W912HY-13-D-0001-DY06 **PROJECT LOCATION** Alexander Island, Baytown, TX
DATE STARTED 12/6/2013 12:15:00 PM **COMPLETED** 12/6/2013 1:55:00 PM **GROUND ELEVATION** 23.393 ft **HOLE SIZE** 8.25 inches
DRILLING CONTRACTOR QRI **NORTHING** 13832758 ft **EASTING** 3226468 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** 10.20 ft / Elev 13.19 ft
WEATHER bands of rain, mid 30s, windy **24 HOURS AFTER DRILLING** ▽ 8.20 ft / Elev 15.19 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					
	CH	CLAY; light grayish brown, medium dense, with common roots reddish brown, moist, high plasticity, stiff, slightly sandy	0	ST	17		1.25			37					94			
		mixed with gray silty SAND, fine to coarse grained, moist	5	ST	15		1.5			26	62	22	40					
		mixed with dark gray silty SAND, medium stiff	10	ST	10		0.75			20								
		Clayey SAND; fine to coarse grained, light gray, moist, loose, slightly silty, with common shell fragments	15	ST	15		0.5			25	52	21	31					
	SC	gray, wet, medium dense	10	ST	17		-			22				34				
			15	NR	0													
			15	SS	18	0-7-7 (14)	-			19								

Bottom of borehole at 15.0 feet.

