

ALEXANDER ISLAND BORING SUMMARY SHEET

BORING ID:	<u>13-B02</u>
BORING TYPE:	<u>Borrow Source</u>
DEPTH:	<u>15'</u>
ELEVATION:	<u>27.56'</u>
X (US SURVEY FT):	<u>3224468.96</u>
Y (US SURVEY FT):	<u>13829647.11</u>
DEPTH TO WATER:	<u>5.95'</u>

Client: USACE-Galveston District Boring: 13-B02 Page 1 of 1
 Date/Time Drilling Begun: 12.17.13/945 Date/Time Drilling Ended: 12.17.13/1205
 Driller: J. New Logger: E. Fickel Designated X (Easting): 3224469
 Drill Rig: Mobile B57 Designated Y (Northing): 13829647 Z (Elevation):
 Total depth: 15.5 Initial Water Encounter (Depth, date/time): 5.95, 12.17.13/1043 Water Depth (15 min.): 5.95

945
 Dredge Spoil
 1205

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	0-2	5	ST	1	1.0 to 2.0	-	CLAY, Moist, Reddish Brown, High Plast, Med. Stiff Mixed with stiff F-C SA + Abundant shells
	SC	2-4	16	ST	1	-	-	V. Clayey SAND (F-C), Light Gray, Loose,
5	CH	4-5 4-6	9	SS 2-2	1B	0.5 to 2.0	-	CLAY w SAND, Moist to Wet, Light Gray, High Plast, Mixed with F-C SA + Light Gray
	CH	5-7 6-8	12	ST	1T	1.0 to 2.0	-	S.A.A. - clay is Light Gray to Reddish Brown, Moist to Wet
9'	SC/SM	7-9 8-10	19	ST	1B	-	-	Silty, clayey SAND (F-C), Light w/ Reddish Gray, Wet, Loose,
10	OH	9-10	12	SS WOR-1	1B	∅	0.25	organic CLAY, Black to D.K Gray, Moist, High Plast, V. Soft to S-Ft Trace of Fine SA
13'6"	OH olt olt	10-12	19	ST	2T	0	0.35	S.A.A. Turning to 13.5 Dark Brownish Brown Carbonaceous debris, common roots.
15	SM SM	12-14	18	ST	1T 1B	0.5	0.5	13.5 to 15.5 Light Brownish Gray SAND (F-C), Moist, V. Loose
	SM SM	14-15.5	13	SS 2-5-3	1B	-	-	↓

Weather: Sunny, Calm, 55°F
 Comments: F-C = fine to coarse grained S.A.A. = same as above WOR = weight of rods Plast = Plasticity V. = Very Med. = Median B = bag, T = tube
 SA = SAND

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
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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-B02

CLIENT USACE-Galveston District **PROJECT NAME** Alexander Island
PROJECT NUMBER W912HY-13-D-0001-DY06 **PROJECT LOCATION** Alexander Island, Baytown, TX
DATE STARTED 12/17/2013 9:45:00 AM **COMPLETED** 12/17/2013 12:05:00 **GROUND ELEVATION** 27.5597 ft **HOLE SIZE** 8.25 inches
DRILLING CONTRACTOR QRI **NORTHING** 13829647 ft **EASTING** 3224469 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 5.95 ft / Elev 21.61 ft
WEATHER sunny, 55, calm **▽ 24 HOURS AFTER DRILLING** 5.95 ft / Elev 21.61 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	Sandy CLAY; reddish brown, moist, high plasticity, medium stiff to stiff, with fine to coarse sand and abundant shells	0	ST	5		1.0-2.0			20	44	14	30						
	SC	Very clayey SAND; fine to coarse grained, light gray, loose		ST	16		-			19	34	12	22	49					
	CL	Sandy CLAY; light gray, moist to wet, high plasticity, mixed with fine to coarse grained SAND, light gray light gray to reddish brown clay	5	SS	9	2-2	0.5-2			21	32	11	21	67					
				ST	12		1.0-2.0												
	CH	CLAY; fine to coarse grained, light gray, wet, loose, with reddish brown clay black to dark gray, moist, high plasticity, very soft to soft, trace of fine sand dark grayish brown, with carbonaceous debris, roots common		ST	19		-			33				61					
			10	SS	12	0-1	0	0.25		78									
				ST	19		0	0.35											
	SM	Silty SAND; fine to coarse grained, light brownish gray, moist, very loose		ST	18		0.5	0.5											
			15	SS	13	2-5-3 (8)	-			24									

Bottom of borehole at 15.5 feet.

