

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET		SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	BORING NO. <u>93-98</u> DATE: BEGIN <u>7-19-94</u> PAGE <u>1/2</u> JOB NO. <u>946783-1</u> COMPLETE <u>7-19-94</u> Thin Walled Tube PROJECT <u>Houston-GALVESTON Navigation Channel</u> ☒ 3" ☐ 6" LOCATION <u>Disposal Area No 16</u> ELEVATION OF HOLE _____ MANUFACTURER'S DESIGNATION OF DRILL RIG <u>Adco K4x4, C-1000 Marsh Buggy</u> GROUNDWATER: DEPTH <u>0</u> ft., ELEV. _____ ft., at end of Drilling WEATHER <u>Very Hot, & Humid</u> DRILLER <u>Scott Gregurek</u> LOGGER <u>Willie Barnes</u>				
				COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
0		1		Brown	SAND	V. loose	SILTY	w/ gray wots
		2	1	Brown	SAND	V. loose	SILTY	w/ shell fragments & silt seams
5		3	2	Gray	Sand	V. loose	SILTY	w/ clay seams & shell fragments
10		4	10	Gray	Sand	M. dense	SILTY	w/ silt seams
15		5	8	Gray	Sand	M. dense	SILTY	w/ clay seams
20		6	3	Gray	Sand	M. dense	SILTY	w/ shell fragments
25		7	5	Gray	Sand	M. dense	SILTY	- w/ shell fragments clay AT 29'
30	5 x 0.2 = 0.10	8	0	Gray	CLAY	V. soft	SILTY	
	0.00	9	0	Gray	CLAY	V. soft	SILTY	short sample
35	2 x 0.2 = 0.04	10	0	Gray	CLAY	very soft	SANDY	w/ silt seam

Torvane test

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DEPTH, FEET	SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	BORING NO. <u>93-78</u> DATE: BEGIN <u>7-19-54</u> PAGE <u>2</u> / <u>2</u> JOB NO. <u>946783.1</u> COMPLETE <u>7-19-54</u> Thin Walled Tube PROJECT <u>Houston-Galveston Navigation channel</u> ☒ 3" ☐ 6" LOCATION <u>Disposal Area NO 16</u> ELEVATION OF HOLE _____ MANUFACTURER'S DESIGNATION OF DRILL RIG <u>Arco K44, C-1000 Marsh Buggy</u> GROUNDWATER: DEPTH <u>0</u> ft., ELEV. _____ ft., at end of Drilling WEATHER <u>Very hot, & Humid</u> DRILLER <u>Scott Gregorick</u> LOGGER <u>Willie Barnes</u>				
				COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
35	X 11	23	6	Gray	SAND	Loose	SILTY	w/ shell fragments
40	X 12	49	6	Gray	SAND	M. Dense	SILTY	w/ shell fragments
45								
50								
55								
60								
65								
70								

Project: Port of Galveston Navigation Channel

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-94-C-0040Boring No. 93-98

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	M c (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	P L (%)	Mechanical Analysis % Passing					Torvane Shear Strength (tsf)	q u (tsf)
											#4	#10	#40	#100	#200		
1	0 - 2			Brown,Sand,Very loose,Silty,w/roots	S M												
2	2-3.5		2	Brown,Sand,Very loose,Silty,w/shell fragments	S M						98.7*	98.0*	93.1*	45.0	19.5		
3	7-8.5		3	Gray,Sand,Very loose,Silty,w/shell fragments	S M												
4	12-13.5		21	Gray,Sand,Medium dense,Silty,w/shell fragments	S M												
5	17-18.5		15	Gray,Sand,Medium dense,Silty,w/shell fragments	S M						100.0	99.9	99.6	79.4	39.5		
6	22-23.5		15	Gray,Sand,Medium dense,Silty,w/shell fragments	S M												
7	27-28.5		14	Gray,Sand,Medium dense,Silty,w/shell fragments	S M												
8	29-31	0.00		Gray,Clay,Very soft,Sandy,w/shell fragments	C L	22.1											
9	31-33	0.00		Gray,Clay,Very soft,Sandy,w/shell fragments	C L	29.9	95.4	123.8	28.0	13.0	100.0	99.9*	96.0*	65.8	50.1		
10	33-35	0.00		Gray,Clay,Very soft,Sandy,w/shell fragments	C L	21.1											
11	35-36.5		9	Gray,Sand,Loose,Silty,w/shell fragments	S M												
12	38.5-40		15	Gray,Sand,Medium dense,Silty,w/shell fragments	S M												

S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classification, M c : Moisture Content

q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

* : Material retained are shell fragments

Geotest Engineering, Inc.