

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET		SAMPLE NO.		PEN./TORVANE		SPT.-BLOW COUNT	
BORING NO. <u>92-101</u> DATE: BEGIN <u>7-24-92</u> PAGE <u>111</u> JOB NO. <u>146548</u> COMPLETE <u> </u> Thin Walled Tube <u> </u> PROJECT <u>DISPOSAL AREA #5</u> ☒ 3" ☐ 6" LOCATION <u>BROWNSVILLE SHIP CHANNEL</u> ELEVATION OF HOLE <u> </u> MANUFACTURER'S DESIGNATION OF DRILL RIG <u>C-1000 Marsh Buggy</u> GROUNDWATER: DEPTH <u>4.00</u> ft., ELEV. <u> </u> ft., at end of Drilling WEATHER <u>PARTLY CLOUDY</u> DRILLER <u>SCOTT GREGUREK</u> LOGGER <u>JOHN A. GENTRY</u>							
COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS			
1 4.5' LIGHT GRAY	CLAY	HARD	SANDY				
2 0.75	BROWN	CLAY	MEDIUM STIFF	* GRAY - w/ SAND LAYERS 2'-14'			
3 0.75	"	"	"	- w/ Sa CL LAYER 4'-14'			
4 0.5	"	"	"				
5 0.5	"	"	"				
6 2.5	"	"	VERY STIFF				
7 1.75	"	"	STIFF				
8 0.75	GRAY	"	MEDIUM STIFF	* BROWN 14'-20'			
9 3.75	"	"	VERY STIFF	- w/ SAND LAYER 14'-16'			
10 2.5	"	"	"	- w/ Sa PKTS 16'-18'			
11 1.0	GRAY CLAY	CLAY	STIFF	- w/ Sa CL LAYER 19-19 1/2'			
12 0.75	"	"	MEDIUM STIFF				
13 0.75	"	"	"				
14 1.25	"	"	STIFF				
15 3.0	BROWN CLAY	CLAY	VERY STIFF	* GRAY BELOW 28'			

Project : Disposal area site adjacent to the Brownsville Ship channel for the
Brazos Island Harbor project near Brownsville, Texas
Contract No. DACW64-92-D-0001 Delivery order No. 0025

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 92-101

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)	LL (%)	P L (%)	Mechanical Analysis % Passing					Torvane Shear Strength (tsf)	q u (tsf)
											#4	#10	#40	#100	#200		
1	0-2	4.5+		Olive gray,Clay,Hard,Sandy,w/clay seams	CL	13.8											
2	2-4	1.75		Gray&brown,Clay,Stiff,Sandy,w/sand seams	CL	19.8											
3	4-6	2.00		Brown,Clay,Very stiff,w/sand seams	CH	25.4	95.6	119.9	62	25							
4	6-8	1.75		Brown,Clay,Stiff,w/sand seams	CH	27.1											
5	8-10	1.50		Brown,Clay,Stiff,w/sand seams	CH	33.5	88.1	117.6	65								
6	10-12	2.25		Olive gray,Clay,Very stiff,Sandy,w/sand seams	CL	22.0											
7	12-14	2.00		Olive gray,Clay,Very stiff,Sandy,w/calcareous nodules&ferrous stains	CL	24.8											
8	14-16	1.75		Olive gray,Clay,Stiff,Sandy,w/ferrous stains	CL	25.1											
9	16-18	1.50		Brown,Clay,Stiff,Sandy	CL	24.3			41								
10	18-20	0.75		Brown,Clay,Meduim stiff,w/sand pockets	CH	30.3											
11	20-22	0.50		Gray,Clay,Medium stiff	CH	37.8											
12	22-24	0.75		Gray,Clay,Medium stiff	CH	41.1											
13	24-26	0.50		Olive gray,Clay,Medium stiff	CH	45.2			59								
14	26-28	2.25		Brown,Clay,Very stiff,w/ferrous stains	CH	30.0											
15	28-30	2.00		Gray,Clay,Very stiff	CH	33.3											

S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classification, M c : Moisture Content
q u : Unconfined Compressive Strength, W O H : Weight of hammer, W O P : Weight of pipe

Geotest Engineering, Inc.