

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET		SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	BORING NO. <u>92-96</u> DATE: BEGIN <u>7-22-92</u> PAGE <u>11</u>				
					JOB NO. <u>146548</u> COMPLETE		Thin Walled Tube		
					PROJECT <u>DISPOSAL AREA #5</u>		☒ 3" ☐ 6"		
					LOCATION <u>BROWNSVILLE SHIP CHANNEL</u>				
					ELEVATION OF HOLE				
					MANUFACTURER'S DESIGNATION OF DRILL RIG <u>C-1000 Marsh Buggy</u>				
					GROUNDWATER: DEPTH <u>3.00</u> ft., ELEV. _____ 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
0		1	4.5		REDISH BROWN	CLAY	HARD		* LIGHT GRAY -w/ SA SM(S) 0'-2'
		2	2.5		LIGHT GRAY	CLAY	VERY STIFF	SANDY	* BROWN -w/ SAND LAYER 2'-6'
5		3	1.75		"	CLAY	STIFF	"	
		4	1.25		"	"	"	"	
		5	0.75		BROWN	CLAY	MEDIUM STIFF		-w/ SA LAYER 5
10		6	0.75		LIGHT GRAY	CLAY	MEDIUM STIFF	VERY SANDY	-w/ SAND LAYERS PUSH TUBE N/R
		7	6.75		GRAY	CLAY	MEDIUM STIFF		-w/ SA LAYER 12 1/2 - 13
15		8	0.75		"	"	"		
		9	1.25		"	"	STIFF		
		10	0.5		"	"	M. STIFF		
20		11	0.5		"	"	"		
		12	0.5		"	"	"		* BROWN 22'-26'
25		13	3.0		"	CLAY	VERY STIFF		* GREENISH BLUE 24'-26'
		14	1.5		BROWN	CLAY	STIFF		* GRAY -w/ SA SM(S) 26'-28'
		15	0.75		BROWN	CLAY	MEDIUM STIFF		* GRAY -w/ CLAY SAND LAYER 28'-30'
30									
35									

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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. 92-96

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 (%)	PL (%)	Mechanical Analysis % Passing					Torvane Shear Strength (tsf)	q u (tsf)
											#4	#10	#40	#100	#200		
1	0-2	4.5+		Brown&gray,Clay,Hard,Sandy,w/calcareous nodules&sand seams	CL	16.6											
2	2-4	3.75		Brown&gray,Clay,Very stiff,Sandy,w/sand seams	CL	19.6											
3	4-6	2.75		Gray&brown,Clay,Very stiff,Sandy,w/sand pockets&sand seams	CL	20.2	101.8	122.4	40	17	100.0	100.0	99.9	85.0	60.1		
4	6-8	1.50		Brown,Clay,Stiff,w/calcareous nodules ferrous stains&sand pockets	CL	32.0											
5	8-10	0.75		Brown,Clay,Medium stiff,Sandy,w/calcareous nodules&sand pockets	CL	29.2	91.9	118.7	47								
6	10-12	0.50		Brown,Clay,Medium stiff,Sandy,w/soft calcareous nodules&sand seams	CL	21.7			38		99.9	99.8	99.4	89.5	71.3		
7	12.5-14	1.25	12	Gray,Clay,Stiff,w/brown silty sand layer	CH	33.1											
8	14-16	0.75		Gray,Clay,Medium stiff	CH	34.2											
9	16-18	0.75		Gray,Clay,Medium stiff	CH	37.2			58	24							
10	18-20	0.75		Gray,Clay,Medium stiff	CH	31.5											
11	20-22	0.75		Gray,Clay,Medium stiff,w/sand pockets	CH	26.7											
12	22-24	1.25		Gray,Clay,Stiff,Silty,w/ferrous nodules	CL	26.2											
13	24-26	1.25		Gray,Clay,Stiff,Silty,w/ferrous nodules	CL	28.4											
14	26-28	0.75		Gray,Clay,Medium stiff	CH	34.5			55								
15	28-30	1.00		Gray,Clay,Stiff,Sandy	CL	29.1											

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.