

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET		SAMPLE NO.	PEN. / TORVANE	SPT. - BLOW COUNT	BORING NO. <u>91258</u>	DATE: BEGIN <u>7-25-91</u>	PAGE <u>11</u>
					JOB NO. <u>146494</u>	COMPLETE <u> </u>	Thin Walled Tube <u> </u>
					PROJECT <u>G.I.W.W.</u>	☒ 3" ☐ 6"	
					LOCATION <u>SARGENT BEACH</u>		
					ELEVATION OF HOLE <u> </u>		
					MANUFACTURER'S DESIGNATION OF DRILL RIG <u>ARCO BUGGY</u>		
					GROUNDWATER: DEPTH <u>1/2</u> ft., ELEV. <u> </u> ft., at end of Drilling		
					WEATHER <u>PARTLY CLOUDY</u>		
					DRILLER <u>Robert Tankersley</u>	LOGGER <u>John A. Mundy</u>	
COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS			
0	1	N/A	LIGHT BROWN SAND	LOOSE	SILTY FINE	-w/ GRASS ROOTS 0-2	
5	2	0.5	GRAY CLAY	MEDIAN STIFF		-w/ SAND POCKETS 4-8	
	3	0.5	GRAY CLAY	MEDIUM STIFF			
	4	0.25	GRAY CLAY	SOFT			
10	5	0.25	GRAY CLAY	SOFT			
	6	1.25	BROWN CLAY	STIFF			
15	7	1.25	BROWN CLAY	STIFF			
	8	1.0	BROWN CLAY	STIFF			
	9	1.25	BROWN CLAY	STIFF			
20	10	1.25	GRAY CLAY	STIFF			
	11	2.0	GRAY CLAY	VERY STIFF			
25	12	3.5	GRAY CLAY	VERY STIFF		*BROWN BELOW 24'	
					BOTTOM OF 91258		

Project : Gulf Intracoastal Waterway near Sargeant Beach, Texas
Contract No. DACW64-91-D-001, Delivery Order No. 0022

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-258

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			Brown,Sand,Loose,Clayey,w/Roots	SC	28.6					100.0	100.0	99.4		45.7		
2	2-4 4-6	0.50		Gray,Clay,Medium stiff	CH	43.0										0.25	
3	6-8	0.50		Gray,Clay,Medium stiff,Sandy	CL	28.6										0.25	
4	8-10	0.50		Olive gray,Clay,Medium stiff,Sandy	CL	36.9	82.3	112.7	45	22	99.4	99.2	99.8		82.2	0.25	0.20
5	10-12	0.25		Gray,Clay,Soft	CH	39.9										0.10	
6	12-14	0.75		Brown & gray,Clay,Medium stiff,w/Blocky structure	CH	32.4											
7	14-16	0.75		Brown & gray,Clay,Medium stiff,w/Blocky structure	CH	40.7											
8	16-18	0.50		Brown & gray,Clay,Medium stiff,w/Sand seams	CH	47.5	73.9	109.0	71	26	100.0	100.0	100.0		100.0		0.32
9	18-20	0.75		Brown & gray,Clay,Medium stiff,w/Sand seams	CH	40.0											
10	20-22	1.50		Gray,Clay,Stiff,w/Ferrous nodules	CH	30.7											
11	22-24	1.75		Olive gray,Clay,Stiff,w/Ferrous nodules	CH	29.1											
12	24-26	2.25		Olive gray & brown,Clay,Very stiff,w/Calcareous nodules	CH	21.3	107.3	130.1	56	23	95.4*	91.9*	88.2*		82.4		2.11

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
* : Material retained are calcareous nodules