

E178.7

U.S. ARMY CORPS OF ENGINEERS

BORING NO. 91297 DATE: BEGIN 11-12-91 PAGE 112
 JOB NO. 14G331 COMPLETE 11-12-91 Thin Walled Tube
 PROJECT GIWW ☒ 3" ☐ 6"
 LOCATION SARGENT BEACH st 291+00
 ELEVATION OF HOLE _____
 MANUFACTURER'S DESIGNATION OF DRILL RIG ARDC6
 GROUNDWATER: DEPTH 5 ft., ELEV _____ ft., at end of Drilling
 WEATHER PARTLY CLOUDY
 DRILLER DOUGLAS MITCHELL LOGGER JOHN A GENTRY

DEPTH, FEET	SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
0				BROWN	SAND	Med/Dense	CLAY	FINE SAND
5	2	0.75		LIGHT GRAY	CLAY	MED. STIFF		-w/ FERRUGINOUS & SAND LAYERS
	3	0.75		BROWN	CLAY	MED. STIFF		* & LIGHT GRAY SILT SEAMS
10	4	1.0		BROWN	CLAY	STIFF	SILTY	
	5	0.25		BROWN	CLAY	SOFT	SILTY	-w/ SILT LAYER SLUMP
	6	1.25		BROWN	CLAY	STIFF	SILTY	-w/ SILT LAYERS -w/ SANDY CLAY LAYERS * & GRAY SLUMP
15	7	1.25		LIGHT GRAY	CLAY	STIFF	SANDY	* & REDDISH BROWN
	8	0.75		LIGHT GRAY	CLAY	MED. STIFF	SANDY	* & LIGHT BROWN 17-24
20	9	1.0		LIGHT GRAY	CLAY	STIFF	VERY SANDY	-w/ CALCAREOUS & FERRUGINOUS 19
	10	1.5		LIGHT GRAY	CLAY	STIFF	VERY SANDY	-w/ SAND LAYER SLUMP
25	11	4.5		BROWN	SAND	MED. DENSE	SILTY	+ FINE SAND 23-37 1/2
30	12	4.5		BROWN	SAND	MED. DENSE	SILTY	
35	13	6.0		BROWN	SAND	MED. DENSE	SILTY	

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DEPTH, FEET		SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	BORING NO. <u>91297</u>	DATE: BEGIN <u>11-12-91</u>	PAGE <u>2</u> <u>12</u>
					JOB NO. <u>146 531</u>	COMPLETE <u>11-12-91</u>	Thin Walled Tube ☒ 3" ☐ 6"
					PROJECT <u>G I WW</u>		
					LOCATION <u>SARGENT BEACH ST 291+00</u>		
					ELEVATION OF HOLE _____		
					MANUFACTURER'S DESIGNATION OF DRILL RIG <u>ARDC6</u>		
					GROUNDWATER: DEPTH <u>5</u> ft., ELEV. _____ ft., at end of Drilling		
					WEATHER <u>PARTLY CLOUDY & COOL</u>		
					DRILLER <u>DOUGLAS MITCHELL</u> LOGGER <u>JOHN A. GENTRY</u>		
		COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS	
35							
40	14	3.25	LIGHT GRAY CLAY	VERY STIFF		* LT, 1" BROWN - w/ CALCARROUS & FERROUS	
	15	3.0	LIGHT GRAY CLAY	VERY STIFF			
	16	1.75	BROWN CLAY	STIFF		* LIGHT GRAY - w/ SILT POCKETS & LAYERS	
45			BROWN SAND	MEDIUM DENSE			
	17	4.67					
50	18	5.78	BROWN SAND	MEDIUM DENSE			
						* Bottom of 91297	

LOST CIRCULATION

Project : Gulf Intracoastal Waterway, near Sargent Beach, Texas
Contract No. DACW64-92-D-0001

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-297

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	0.50		Gray, Clay, Medium stiff, Sandy, w/sand layers and grass roots	CL	25.1											
2	5-7	0.00		Gray, Clay, Very soft, w/sand pockets	CH	38.2	83.4	115.2	59		100.0	99.9	99.9	99.6	93.3	0.15	
3	7-9	0.75 1.25		Brown, Clay, Medium stiff, w/silt seams SWD	CH	35.3	84		51	19					96		?
4	9-11	0.00		Gray & brown, Clay, Very soft	CH	35.0											
5	11-13	0.75		Reddish brown, Clay, Medium stiff, Sandy	CL	25.2										0.10	
6	13-15	1.00		Gray, Clay, Stiff, Sandy, w/silt seams	CL	23.9	101.7	126.0	39		99.7	99.3	99.1	97.9	75.4		
7	15-17	1.00		Gray & tan, Clay, Stiff, Sandy	CL	26.4											
8	17-19	0.75 1.5-75		Light gray, Clay, Medium stiff, Sandy SWD	CL	26.8	98		41	18					78		?
9	19-21	1.50		Gray & tan, Clay, Stiff, Sandy, w/calcareous nodules	CL	20.0	110.4	132.5	31		98.8*	97.4*	96.0	94.7	65.2		
10	21-23	1.75		Gray & tan, Clay, Stiff, Sandy, w/calcareous nodules	CL	18.3											
11	23-24.5		11	Brown, Sand, Medium dense, Silty	S M												
12	28.5-30		12	Brown, Sand, Medium dense, Silty	S M						100.0	100.0	99.9	95.8	47.5		
13	33.5-35		18	Brown, Sand, Medium dense, Silty	S M												
14	38-40	2.50		Gray & tan, Clay, Very stiff, w/calcareous nodules	CH	33.9											
15	40-42	2.50		Gray & reddish Brown, Clay, Very stiff	CH	35.5			90								
16	42-44	3.00		Reddish brown, Clay, Very stiff, w/calcareous nodules	CH	25.8											
17	47.5-49		13	Brown, Sand, Medium dense, Silty	S M						100.0	100.0	100.0	69.7	14.7		

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

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91-297

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