

DEPTH, FEET		SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	BORING NO.	DATE: BEGIN	PAGE
				91-299	11/14/91	112
				JOB NO. 146531	COMPLETE 11/21/91	Thin Walled Tube
				PROJECT GZWW		☒ 3" ☐ 6"
				LOCATION SARGENT BEACH St 303+50		
				ELEVATION OF HOLE		
				MANUFACTURER'S DESIGNATION OF DRILL RIG ARDCO		
				GROUNDWATER: DEPTH 3 ft., ELEV.		ft., at end of Drilling
				WEATHER PARTLY CLOUDY		
				DRILLER DOUGLAS MITCHELL	LOGGER JOHN A. GENTRY	
		COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
0	1	1.25	GRAY CLAY	STIFF		- W/ROOTS 0'-2'
2	2	1.0	GRAY CLAY	STIFF		
3	3	0.75	GRAY CLAY	MEDIUM STIFF		
4	4	0.75	REDISH BROWN CLAY	MEDIUM STIFF		
5	5	0.5	BROWN CLAY	MEDIUM STIFF		
10	6	0.5	BROWN CLAY	MEDIUM STIFF		- W/SILT LAYER 10'-12'
	7	2.0	BROWN CLAY	VERY STIFF	SILTY	- W/SILT LAYER 12'-14'
15	8	2.5	BROWN CLAY	VERY STIFF	SILTY	
	9	0.25	BROWN CLAY	SOFT		+ GRAY
20	10	0.25	GRAY CLAY	"		
	11	0.75	GRAY CLAY	MEDIUM STIFF		
	12	2.75	GRAY CLAY	VERY STIFF		
25	13	2.75	GRAY CLAY	VERY STIFF		+ BROWN - W/CALCAREOUS + FERROUS
	14	4.5	REDISH BROWN CLAY	HARD		24'-26'
	15	4.5	REDISH BROWN CLAY	HARD		- W/SILT POCKETS 26'-28'
30	16	2.75	REDISH BROWN CLAY	VERY STIFF		+ LIGHT GRAY 26'-34'
	17	2.5	BROWN CLAY	VERY STIFF		
35	18	3.25	LIGHT GRAY CLAY	VERY STIFF		+ LIGHT BROWN 34'-40'
						34'-38'
						- W/CALCAREOUS + FERROUS

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET		SAMPLE NO.		PEN./TORVANE		SPT.-BLOW COUNT		BORING NO. <u>94299</u> DATE: BEGIN <u>11-14-91</u> PAGE <u>212</u> JOB NO. <u>146531</u> COMPLETE <u>11-21-91</u> Thin Walled Tube PROJECT <u>GIWW</u> ☒ 3" ☐ 6" LOCATION <u>SARGENT BEACH ST 303+50</u> ELEVATION OF HOLE _____ MANUFACTURER'S DESIGNATION OF DRILL RIG <u>ARDCO</u> GROUNDWATER: DEPTH <u>3</u> ft., ELEV. _____ ft., at end of Drilling WEATHER <u>PARTLY CLOUDY</u> DRILLER <u>DOUGLAS MITCHELL</u> LOGGER <u>JOHN A. GENTRY</u>				
		COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS						
35		LIGHT GRAY	CLAY	VERY STIFF		LIGHT BROWN 39-40 -w/ CALCAREOUS + FERRUG 34'-38'						
40	19	3.25	CLAY	VERY STIFF								
	20	3.25	CLAY	VERY STIFF								
	21	3.25	CLAY	VERY STIFF		* LIGHT GRAY BELOW 40'						
	22	4.25	CLAY	HARD								
45	23	4.25	CLAY	HARD								
	24	4.25	CLAY	HARD								
50	25	4.5+	CLAY	HARD								

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

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-299

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	1.00		Gray, Clay, Stiff, w/grass roots and sand pockets	CH	30.8											
2	2 - 4	1.00		Gray, Clay, Stiff, w/brown silty clay layer	CH	37.4										0.25	
3	4 - 6	0.50		Gray, Clay, Medium stiff	CH	31.9										0.20	
4	6 - 8	1.00		Gray & brown, Clay, Stiff	CH	37.9	81.4	112.2	52		100.0	100.0	100.0	99.5	98.7	0.45	
5	8 - 10	0.50 0.25		Brown, Clay, Medium stiff <i>SWD</i>	CH	51	71		78	22					99		
6	10 - 12	0.50		Gray, Clay, Medium stiff, w/sand pockets	CH	33.8	89.0	119.1	84		100.0	100.0	100.0	99.9	95.0	0.25	
7	12 - 14	0.25		Gray, Clay, Soft, w/reddish brown silty clay layer	CH	31.6											
8	14 - 16	1.50		Reddish brown, Clay, Stiff, Silty, w/sand seams	CL	24.2											
9	16 - 18	0.25 0.25-5		Brown, Clay, Soft <i>SWD</i>	CH	55.9	68		68	22					97		
10	18 - 20	0.25		Gray, Clay, Soft, w/sand partings	CH	38.7	81.6	113.2	58		100.0	99.8	99.3	98.2	93.4	0.15	
11	20 - 22	0.75		Gray, Clay, Medium stiff, w/sand pockets	CH	33.4										0.30	
12	22 - 24	2.50		Gray, Clay, Very stiff	CH	28.0											
13	24 - 26	2.50		Gray, Clay, Very stiff, w/calcareous nodules	CH	26.6											
14	26 - 28	4.00		Reddish brown, Clay, Very stiff, w/calcareous and Ferrous nodules	CH	24.1											
15	28 - 30	4.50		Reddish brown, Clay, Hard, w/calcareous nodules and ferrous nodules	CH	24.5											
16	30 - 32	3.00		Reddish brown & Gray, Clay, Very stiff	CH	34.8	88.3	119.1	80		100.0	100.0	100.0	99.1	99.0		
17	32 - 34	3.00		Reddish brown & Gray, Clay, very stiff	CH	31.4											

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

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Contract No. DACW64-92-D-0001

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Boring No. 91-299

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											#4	#10	#40	#100	#200		
18	34 - 36	4.00		Gray & tan,Clay,Very stiff,w/calcareous nodules, slickensided	CH	26.9											
19	36 - 38	3.50		Gray & tan,Clay,Very stiff,w/calcareous nodules	CH	25.2											
20	38 - 40	3.50		Gray & tan,Clay,Very stiff,w/calcareous nodules	CH	23.9											
21	40 - 42	3.50		Gray & tan,Clay,Very stiff,w/calcareous nodules	CH	21.7											
22	42 - 44	4.50		Reddish brown,Clay,Hard	CH	27.4											
23	44 - 46	4.50		Reddish brown,Clay,Hard,slickensided	CH	30.1											
24	46 - 48	4.50		Reddish brown,Clay,Hard,slickensided	CH	30.2											
25	48 - 50	4.50		Reddish brown,Clay,Hard,slickensided	CH	30.4											

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