

E178.0

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET	SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	BORING NO. <u>91-301</u> DATE: BEGIN <u>11-22-91</u> PAGE <u>111</u>				
			JOB NO. <u>146531</u> COMPLETE <u>11-22-91</u> Thin Walled Tube ☒ 3" ☐ 6"				
			PROJECT <u>GTWW</u>				
			LOCATION <u>SARGENT BEACH ST 321+50</u>				
			ELEVATION OF HOLE _____				
			MANUFACTURER'S DESIGNATION OF DRILL RIG <u>ARDCO</u>				
			GROUNDWATER: DEPTH <u>1</u> ft., ELEV. _____ ft., at end of Drilling				
			WEATHER <u>CLEAR</u>				
			DRILLER <u>DOUGLAS MICHELL</u> LOGGER <u>JOHN A. GENTRY</u>				
			COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
0	1	0.5	GRAY	CLAY	MEDIUM STIFF	SILTY.	-w/ROOTS 0-2'
	2	1.0	LIGHT GRAY	CLAY	STIFF		+ LIGHT BROWN
5	3	0.5	GRAY	CLAY	MEDIUM STIFF		
	4	0.75	GRAY	CLAY	MEDIUM STIFF		+ BROWN 6'-10'
	5	1.0	GRAY	CLAY	STIFF		
10	6	1.0	BROWN	CLAY	STIFF		SHORT SAMPLE
	7	1.0	BROWN	CLAY	STIFF		
15	8	1.0	GRAY	CLAY	STIFF		+ LIGHT BROWN 14'-22'
	9	1.0	GRAY	CLAY	STIFF		
	10	1.25	GRAY	CLAY	STIFF		
20	11	1.0	GRAY	CLAY	STIFF		
	12	2.0	GRAY	CLAY	VERY STIFF		+ REDISH BROWN 23'-26'
25	13	2.0	GRAY	CLAY	VERY STIFF		-w/CALCAREOUS 22-24'
	14	2.5	LIGHT GRAY	CLAY	VERY STIFF		+ BROWN 26'
	15	2.5	LIGHT GRAY	CLAY	VERY STIFF		
30	16	2.25	LIGHT GRAY	CLAY	VERY STIFF		
	17	3.5	LIGHT GRAY	CLAY	VERY STIFF		
35	18	4.25	REDISH BROWN	CLAY	HARD		-w/CALCAREOUS & FERROUS 34'-36'

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET		SAMPLE	SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	BORING NO. <u>94301</u> DATE: BEGIN <u>11-22-91</u> PAGE <u>212</u> JOB NO. <u>14G531</u> COMPLETE <u>11-22-91</u> Thin Walled Tube PROJECT <u>GFWN</u> ☒ 3" ☐ 6" LOCATION <u>SARGENT BEACH</u> ST <u>321+50</u> ELEVATION OF HOLE <u>+</u> MANUFACTURER'S DESIGNATION OF DRILL RIG <u>ARDCO</u> GROUNDWATER: DEPTH <u>1</u> ft., ELEV. _____ ft., at end of Drilling WEATHER <u>SUNNY & CLEAR</u> DRILLER <u>DOUGLAS MITCHELL</u> LOGGER <u>JOHN A. GENTRY</u>				
						COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
35			19	4.0		REDISH BROWN	CLAY	Very stiff		- w/ SILT POCKETS 36'-38'
			20	4.0		REDISH BROWN	CLAY	Very stiff		- w/ SILT LAYER 38'-40'
40			21	3.75		REDISH BROWN	CLAY	VERY STIFF		+ LIGHT GRAY 40'-46'
			22	3.0		REDISH BROWN	CLAY	VERY STIFF		
45			23	2.75		REDISH BROWN	CLAY	VERY STIFF		- w/ SILT LAYER 45'-46'
			24	3.0		REDISH BROWN	CLAY	VERY STIFF		
50			25	3.25		REDISH BROWN	CLAY	VERY STIFF		+ LIGHT GRAY BELOW 48'

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

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-301

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	0.75		Gray, Clay, Medium stiff, w/sand pockets & roots	CH	43.3										0.30	
2	2-4	0.75		Gray, Clay, Medium stiff, w/roots	CH	42.1										0.30	
3	4-6	0.50 0.25-0.5		Gray, Clay, Medium stiff <i>SWD</i>	CH	32.5	88		53	18					89		<i>unc C = 500</i>
4	6-8	0.50		Gray, Clay, Medium stiff, w/ferrous nodules	CH	39.2	81.3	113.1	64		100.0	100.0	99.9	99.8	99.3	0.30	
5	8-10	0.50		Gray & brown, Clay, Medium stiff, w/ferrous nodules	CH	40.6										0.30	
6	10-12	1.25		Brown, Clay, Stiff, w/ferrous stains	CH	41.1										0.55	
7	12-14	0.75		Brown, Clay, Medium stiff, w/ferrous stains	CH	36.5										0.35	
8	14-16	1.00 0.75-1		Gray, Clay, Stiff <i>SWD</i>	CH	41.7	79		77	23					99		<i>unc C = 600 PSI</i>
9	16-18	0.75		Gray & brown, Clay, Medium stiff	CH	50.6	72.2	108.7	102		100.0	100.0	100.0	100.0	100.0	0.35	
10	18-20	1.00		Gray & yellowish brown, Clay, Stiff	CH	49.4											
11	20-22	1.25		Gray & yellowish brown, Clay, Stiff, slickensided	CH	45.5											
12	22-24	1.50		Gray & yellowish brown, Clay, Stiff	CH	42.9											
13	24-26	2.25		Gray & brown, Clay, Very stiff, slickensided	CH	41.0											
14	26-28	2.50		Gray & brown, Clay, Very stiff, w/calcareous nodules & ferrous stains	CH	40.7											
15	28-30	2.50		Gray & brown, Clay, Very stiff, w/calcareous nodules & ferrous stains	CH	34.1	89.3	119.8	91		100.0	100.0	100.0	99.6	96.9		
16	30-32	3.00		Gray & yellowish brown, Clay, Very stiff, w/ferrous nodules	CH	22.2											
17	32-34	3.50		Gray & yellowish brown, Clay, Very stiff, w/calcareous & ferrous nodules	CH	21.8											

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

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

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											#4	#10	#40	#100	#200		
18	34-36	4.5+		Gray & brown, Clay, Hard, Silty, w/calcareous & ferrous nodules	CL	18.5											
19	36-38	4.5+		Brown & gray, Clay, Hard, Silty, w/calcareous nodules	CL	21.2											
20	38-40	2.50		Brown & gray, Clay, Very stiff, Silty, w/calcareous nodules	CL	21.8											
21	40-42	3.50		Brown & gray, Clay, Very stiff, w/calcareous nodules & ferrous stains	CH	24.9											
22	42-44	3.50		Brown & gray, Clay, Very stiff, w/calcareous nodules	CH	20.1											
23	44-46	1.50		Brown & gray, Clay, Stiff, Silty, w/calcareous nodules	CL	21.2			32								
24	46-48	2.00		Brown, Clay, Very stiff, w/silt pockets	CH	25.2											
25	48-50	3.25		Brown, Clay, Very stiff, w/silt seams	CH	28.6											

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