

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET		SAMPLE NO.		PEN./TORVANE		SPT.-BLOW COUNT		BORING NO. <u>91-307</u> DATE: BEGIN <u>12-06-91</u> PAGE <u>112</u>		JOB NO. <u>14G531</u> COMPLETE <u>12-06-91</u> Thin Walled Tube		PROJECT <u>GIWW</u> ☒ 3" ☐ 6"		LOCATION <u>SARGENT BEACH STA. 35450</u>		ELEVATION OF HOLE		MANUFACTURER'S DESIGNATION OF DRILL RIG <u>AROCO</u>		GROUNDWATER: DEPTH <u>0</u> ft., ELEV. <u>54</u> ft., at end of Drilling		WEATHER <u>MOSTLY CLOUDY</u>		DRILLER <u>DOUGLAS MITCHELL</u> LOGGER <u>JOHN A. GENTRY</u>				
								COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS																
0		1	0.5	BROWN	CLAY	MEDIUM STIFF	SANDY																					
		2	0	GRAY	CLAY	VERY SOFT	SANDY																					
5		3	0.25	GRAY	CLAY	SOFT	SANDY																					
		4	0.25	GRAY	CLAY	SOFT																						
		5	0	GRAY	CLAY	VERY SOFT																						
10		6	0.25	GRAY	CLAY	SOFT																						
		7	0.5	BROWN	CLAY	MEDIUM STIFF																						
		8	1.0	BROWN	CLAY	STIFF																						
15		9	1.5	GRAY	CLAY	STIFF																						
		10	1.75	GRAY	CLAY	STIFF																						
20		11	1.75	GRAY	CLAY	STIFF																						
		12	2.0	GRAY	CLAY	VERY STIFF																						
		13	2.5	GRAY	CLAY	STIFF																						
25		14	3.25	GRAY	CLAY	VERY STIFF																						
		15	3.25	BROWN	CLAY	VERY STIFF																						
30		16	3.75	BROWN	CLAY	VERY STIFF																						
		17	4.5	REDISH BROWN	CLAY	HARD																						
35		18	4.5	REDISH BROWN	CLAY	HARD																						

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BORING NO. <u>91307</u>		DATE: BEGIN <u>12-06-91</u> PAGE <u>2</u> <u>12</u>	
JOB NO. <u>148531</u>		COMPLETE <u>12-06-91</u> Thin Walled Tube	
PROJECT <u>GIWN</u>		☒ 3" ☐ 6"	
LOCATION <u>Sargent Beach Sta. 354+50</u>			
ELEVATION OF HOLE _____			
MANUFACTURER'S DESIGNATION OF DRILL RIG <u>Arco</u>			
GROUNDWATER: DEPTH <u>0</u> ft., ELEV. _____ ft., at end of Drilling			
WEATHER <u>MOSTLY CLOUDY</u>			
DRILLER <u>Douglas Mitchell</u> LOGGER <u>John A. Centry</u>			

DEPTH, FEET	SAMPLE	SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
35		1.0			REDISH BROWN	CLAY	STIFF	SILTY	SILTY CLAY 36' *+LIGHT GRAY 36'
37.5		2.75			REDISH BROWN	CLAY	VERY STIFF		-w/ SILTY CLAY LAYER 39' 40'
40		4.5			REDISH BROWN	CLAY	HARD		*+LIGHT GRAY
42.5		3.5			BROWN	CLAY	VERY STIFF		-w/ CALCAREOUS BELOW
45		3.25			BROWN	CLAY	VERY STIFF		-w/ SILT LAYERS BELOW 44'
47.5		3.5			BROWN	CLAY	VERY STIFF		46'
50		3.5			BROWN	CLAY	VERY STIFF		-w/ S
55									
60									
65									
70									

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

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-307

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	0.25		Brownish gray, Clay, Soft, Sandy	CL	31.1										0.02	
2	2-4	0.25		Gray & brown, Clay, Soft, Sandy	CL	30.4	91.0	118.7	27	19	100.0	100.0	100.0	99.3	75.7	0.05	
3	4-6	0.25		Gray, Clay, Soft, Sandy <i>SWD</i>	CL	<i>37.6</i>	<i>84</i>	<i>115</i>	<i>48</i>	<i>15</i>					<i>92</i>		<i># = 250</i>
4	6-8	0.25		Gray, Clay, Soft, w/sand pockets	CH	52.5	68.7	104.8	66		99.5*	99.2*	98.8*	94.2	88.5	0.04	
5	8-10	0.00 <i>< .25</i>		Gray, Clay, Very soft <i>SWD</i>	CH	<i>57.3</i>	<i>66</i>	<i>103.8</i>	<i>62</i>	<i>18</i>					<i>91</i>		<i>C = 150</i>
6	10-12	0.00		Gray, Clay, Very soft, w/sand pockets	CH	55.6										0.03	
7	12-14	0.50 <i>-1</i>		Brown, Clay, Medium stiff <i>SWD</i>	CH	<i>49</i>	<i>74</i>	<i>110</i>	<i>63</i>	<i>23</i>					<i>100</i>		<i>C = 400</i>
8	14-16	0.75		Gray, Clay, Medium stiff, w/sand parting	CH	38.0											
9	16-18	1.50		Gray, Clay, Stiff, w/sand seams	CH	35.4	83.4	112.9	70		100.0	100.0	99.9	99.8	96.5		
10	18-20	1.75		Gray & tan, Clay, Stiff, w/calcareous nodules	CH	37.2											
11	20-22	1.75		Gray & tan, Clay, Stiff	CH	37.6											
12	22-24	2.00		Gray & tan, Clay, Very stiff	CH	32.6											
13	24-26	2.50		Gray & tan, Clay, Very stiff	CH	37.7											
14	26-28	2.75		Gray & tan, Clay, Very stiff	CH	38.2											
15	28-30	3.50		Gray & tan, Clay, Very stiff, w/calcareous nodules	CH	23.0	105.4	129.7	54								
16	30-32	3.50		Tan & gray, Clay, Very stiff, w/Calcareous nodules	CH	20.6											
17	32-34	4.50		Reddish brown, Clay, Hard, w/calcareous nodules	CH	22.8											

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

* : Material Retained are Shell fragments

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+		Reddish brown,Clay,Hard,w/calcareous nodules	CH	23.1											
19	36-38	1.50		Reddish brown,Clay,stiff,w/sand parting	CH	23.7											
20	38-40	2.75		Reddish brown,Clay,Very stiff,w/sand seams	CH	25.7											
21	40-42	4.25		Reddish brown,Clay,Hard,slickensided	CH	28.5	94.9	121.9	68								
22	42-44	4.00		Brown & gray,Clay,Very stiff	CH	26.6											
23	44-46	3.50		Brown & gray,Clay,Very stiff	CH	25.3											
24	46-48	2.50		Reddish brown,Clay,Very stiff,w/sand parting	CH	26.4											
25	48-50	3.50		Reddish brown,Clay,Very stiff,w/sand parting	CH	23.6											

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