U.S. ARMY CORPS OF ENGINEERS

BORING NO. 91-276 DATE: BEGIN 1/4/92 PAGE 1 / 2
JOB NO. 1YG-531 COMPLETE 1/4/92 Thin Walled Tube
PROJECT S. C-TWW ☐ 3" ☐ 6"
LOCATION Sargent beach sta 7+50
ELEVATION OF HOLE
MANUFACTURER'S DESIGNATION OF DRILL RIG Failing CFA 2
GROUNDWATER: DEPTH 1 ft., ELEV. 6.6 ft., at end of Drilling
WEATHER cool / cloudy
DRILLER D. Carcan LOGGER D. Crowell

DEPTH, FEET	SAMPLE	SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	COLOR	MATERIAL TYPE	CONSIS-TENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
0								
	1	X	2/3/5	Tan	Sand	loose	clay	w/Shell Frag
	2		1.0	Gray	Clay	stiff	silt	
5	3		1.0	Gray	Clay	St. ff	Silt	
	4		0.25	Tan	Clay	M. stiff	silt	Gray
	5		0.25	Tan	Clay	Soft	Silt	Gray
10	6	X	W.O.P	Gray	Clay	V. soft	Silt	Gray
	7	X	W.O.P	Gray	clay	V. soft	Silt	Gray
	8	X	W.O.P	Gray	Clay	V. soft	silt	Tan
15	9	X	W.O.P	Gray	Clay	v. soft	silt	Tan
	10	X	W.O.P	Gray	Clay	v. soft	silt	Tan
	11	X	W.O.P	Gray	clay	v. soft	silt	Tan
20	12	X	1/2/3	Gray	Sand	loose	silt	22'
25								
	13	X	2/4/5	Gray	Sand	loose	silt	30'
30	14		0.25	Gray	clay	soft	silt	w/sand seams
	15		0.25	Gray	Clay	soft	silt	w/Shell Frag
35	16		0.25	Gray	Clay	soft	silt	w/strong smell

GEOTEST ENGINEERING, INC.

U.S. ARMY CORPS OF ENGINEERS

BORING NO. 91-276 DATE: BEGIN 1/4/92 PAGE 2 12
JOB NO. 145-531 COMPLETE 1/4/92 Thin Walled Tube
PROJECT CIWW ☑ 3" ☐ 6"
LOCATION Sargent Beach Sta 79+50
ELEVATION OF HOLE
MANUFACTURER'S DESIGNATION OF DRILL RIG Failing CF02
GROUNDWATER: DEPTH 1 ft., ELEV. ft., at end of Drilling
WEATHER cold cloudy raining
DRILLER D Gorman LOGGER D Crowell

DEPTH, FEET	SAMPLE	SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
35								
		17	0.50	Gray	clay	M stiff	silt	w/orangic material
40		18	1.5	Tan	clay	Stiff	silt	Gray
		19	0.25	Gray	clay	Soft	silt	w/Sand seams
		20	0.25	Gray	clay	Soft	silt	w/Sand seams
45		21	0.50	Tan	Clay	M stiff	silt	Gray
		22	0.50	Tan	Clay	M stiff	silt	Gray
		23	10	tan	clay	Stiff	silt	Gray
50								Bottom of 91-276 @ 50'
								W.O.P: Weight of Pipe
55								
60								
65								
70								

Project : Gulf Intracoastal Waterway, near Sargent Beach, Texas
Contract No. DACW64-92-D-0001 Delivery No. 0005

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-276

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)	L L (%)	P L (%)	Mechanical Analysis % Passing					Torvane Shear Strength (tsf)	q u (tsf)
											#4	#10	#40	#100	#200		
1	0.5-2		8	Light brown,sand,Loose,Silty,w/shell fragments	S M						99.0*	98.2*	94.5*	28.7	14.2		
2	2-4	1.50		Gray,Clay,Stiff,w/roots,slickensided	CH	34.2											
3	4-6	2.25		Gray,Clay,very stiff,w/roots and calcareous nodules,slickensided	CH	25.1			54								
4	6-8	1.25		Yellowish brown,Clay,Stiff,w/silt seams	CH	28.1											
5	8-10	0.25		Tan & gray,Clay,Soft,Silty	CL	37.8	83										c = 470 PSF
6	10.5-12	0.00	W.O.P	Brown,Clay,Very soft,Silty,w/sand	CL	34.7			44		100.0	100.0	99.9	99.6	96.5		
7	12.5-14	0.00	W.O.P	Brown,Clay,Very soft,Silty	CL	45.5											
8	14.5-16	0.00	W.O.P	Brown,Clay,Very soft,Silty	CL	44.8											
9	16.5-18	0.00	W.O.P	Brown,Clay,Very soft,Silty,w/sand	CL	37.4			32		100.0	100.0	99.9	99.5	95.4		
10	18.5-20	0.00	W.O.P	Brown,Clay,Very soft,Silty	CL	42.1											
11	20.5-22	0.00	W.O.P	Brown,Clay,Very soft,Silty,w/sand	CL	39.6			35		100.0	100.0	99.9	96.7	95.9		
12	22.5-24		5	Gray,Sand,Loose,Silty	S M												
13	27.5-29		9	Gray,Sand,Loose,Silty	S M						100.0	100.0	99.9	55.6	21.8		
14	30-32	0.50		Gray,Clay,Medium stiff,w/sand pockets and sand parting and organic material	CH	46.8										0.25	
15	32-34	0.50		Gray,Clay,Medium stiff,w/organic material	CH	70.7										0.25	
16	34-36	0.25		Gray,Clay,Soft,Silty,w/organic material	CL/CH	64.2	58		95	28							c = 570 PSF
17	36-38	0.75		Gray,Clay,Medium stiff,w/organic material	CH	44.2											

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 Delivery No. 0005

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-276

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)	L L (%)	P L (%)	Mechanical Analysis % Passing					Torvane Shear Strength (tsf)	q u (tsf)
											#4	#10	#40	#100	#200		
18	38-40	0.75		Brown,Clay,Medium stiff,w/silt seams	CH	40.6			53								
19	40-42	0.75		Brown,Clay,Medium stiff,w/silt pockets and silt seams	CH	31.9										0.35	
20	42-44	0.75		Brown,Clay,Medium stiff,w/silt pockets and silt seams	CH	45.8										0.35	
21	44-46	0.50		Brown,Clay,Medium stiff,w/silt pockets and silt parting	CH	38.5			59								
22	46-48	0.50		Brown,Clay,Medium stiff	CH	58.7											
23	48-50	1.25		Brown,Clay,Stiff,w/blocky structure,slickensided	CH	36.7											

S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classification, M c : Moisture Content
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