U.S. ARMY CORPS OF ENGINEERS

BORING NO. 91-236 DATE: BEGIN 8-5-91 PAGE 1 of 2
JOB NO. 146494 COMPLETE 8-8-91 Thin Walled Tube
PROJECT G. I. W. W. ☒ 3" ☐ 6"
LOCATION SARGENT Beach
ELEVATION OF HOLE
MANUFACTURER'S DESIGNATION OF DRILL RIG Failing-36
GROUNDWATER: DEPTH 3 ft., ELEV. ____ ft., at end of Drilling
WEATHER P.C. - Hot
DRILLER R-Tanksley LOGGER J. Beard

DEPTH, FEET	SAMPLE	SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
0								
JAR	X	1	2/3/3	TAN	SAND	Loose		w/Roots (Sa at Surface)
		2	.5	GRAY	CLAY	Med Stiff		Cl. at 2'
5		3	.5	GRAY TAN	"	"		
		4	.5	TAN	"	"		
		5	.5	TAN	"	"	SAND	
10		6	1.25	TAN & GRAY	"	Stiff		
		7	1.25	GRAY	"	"		w/SA. Sms
		8	1.5	"	"	"		
15		9	1.5	Tan	"	"	Silt	
		10	1.75	"	"	"	"	
20		11	1.5	"	"	"		
		12	2.75	"	"	Very Stiff		
25		13	1.0	"	"	Stiff		
		14	1.0	"	"	"	Silt	
		15	1.0	"	"	"	"	
30		16	1.5	"	"	"	"	
		17	.25	"	"	Soft	"	
35		18	.5	"	"	Med Stiff		
		19	.5	"	"	"		

U.S. ARMY CORPS OF ENGINEERS

BORING NO. 91-236 DATE: BEGIN 8-8-91 PAGE 2 / 2
JOB NO. 146494 COMPLETE 8-8-91 Thin Walled Tube
PROJECT G.I.W.W. ☒ 5" ☐ 6"
LOCATION SARGENT BEACH
ELEVATION OF HOLE
MANUFACTURER'S DESIGNATION OF DRILL RIG Failing-36
GROUNDWATER: DEPTH 3 ft., ELEV. ____ ft., at end of Drilling
WEATHER P.C. - W.F
DRILLER R-Tomkinsley LOGGER J. Berg

DEPTH, FEET	SAMPLE	SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
35								
		19	.5	TAN	CLAY	med stiff		
		20	.5	"	"	"		
40								Bottom of 91-236 40'
								Set 10' CASING

Project: Gulf Intracostal Waterway near Sargeant Beach, Texas
Contract No. DACW64-91-D-001, Delivery Order No. 0022

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-236

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		6	Tan,Sand,Loose,Silty,w/Roots	S M												
2	2-4	0.50		Gray & dark gray,Clay,~~Medium stiff~~ Soft,w/Roots	CH	38.5										0.30	
3	4-6	0.25		Gray,Clay,Soft,w/Roots & wood	CH	35.7	79.6	107.9	53	25	98.8	98.6	98.5		87.2	0.15	
4	6-8	0.25		Gray,Clay,Soft	CH	33.9										0.15	
5	8-10	1.25		Dark brown,Clay,Stiff,w/Ferrous nodules	CH	41.6	79.8	113.0	77	28	100.0	99.9	98.4		96.2	0.50	0.69
6	10-12	1.00		Dark brown,Clay,Stiff	CH	33.3											
7	12-14	0.75		Gray,Clay,Medium ~~stiff~~,w/Ferrous stains	CH	32.2											
8	14-16	0.75		Gray,Clay,Medium ~~stiff~~,w/Ferrous stains	CH	44.0											
9	16-18	0.50		Brown,Clay,~~Medium stiff~~ Soft,Silty	CL	27.0											
10	18-20	1.00		Brown,Clay,Stiff,Silty	CL	24.9	99.6	124.4	26	18	100.0	99.9	99.8		98.0		0.19
11	20-22	1.00		Brown,Clay,Stiff,w/Ferrous stains	CH	35.7											
12	22-24	1.50		Brown,Clay,Stiff,w/Ferrous stains	CH	35.9											
13	24-26	1.50		Brown,Clay,Stiff,w/Ferrous stains	CH	37.8											
14	26-28	0.75		Brown,Clay,Medium ~~stiff~~,w/Silt pockets	CH	31.6	87.4	115.0	51	22							
15	28-30	0.50		Brown,Clay,~~Medium stiff~~ Soft,w/Silt pockets	CH	41.1											
16	30-32	0.50		Brown,Clay,~~Medium stiff~~ Soft,w/Ferrous stains	CH	38.2											
17	32-34	0.50		Brown,Clay,~~Medium stiff~~ Soft,w/Ferrous stains	CH	31.7											

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

Project : Gulf Intracostal Waterway near Sargeant Beach, Texas
Contract No. DACW64-91-D-001, Delivery Order No. 0022

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-236

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	34-36	0.25		Brown,Clay,Soft,w/Ferrous stains	CH	54.4											
19	36-38	0.50		Brown,Clay,~~Medium stiff~~,w/Ferrous stains & silt pockets	CH	39.9	79.5	111.2	61	23							
20	38-40	0.25		Brown,Clay,Soft,w/Ferrous stains & silt pockets	CH	50.8											

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