

DEPTH, FEET	SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	BORING NO. <u>91213</u> DATE: BEGIN <u>07-17-91</u> PAGE <u>1</u> <u>11</u>				
			JOB NO. <u>146490</u> COMPLETE <u>07-17-91</u> Thin Walled Tube ☒ 3" ☐ 6"				
			PROJECT <u>G.I.W.W.</u>				
			LOCATION <u>SALGEM BEACH</u>				
			ELEVATION OF HOLE _____				
			MANUFACTURER'S DESIGNATION OF DRILL RIG <u>F-36</u>				
			GROUNDWATER: DEPTH <u>3</u> ft., ELEV. _____ ft., at end of Drilling				
			WEATHER <u>PARTLY CLOUDY</u>				
			DRILLER <u>Robert Tankersley</u> LOGGER <u>John A. Hentley</u>				
			COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
0	1	1.75	GRAY	CLAY	STIFF		* Y BROWN - w/ SAND LAYER 0'-2'
	2	1.75	BROWN	CLAY	STIFF	STILY	* VERY
5	3	0.75	GRAY	CLAY	MEDIUM STIFF		- w/ SAND. POCKET 4.6'
	4	0.5	"	"	"	UC	2.5
	5	0.5	"	"	"		Limit of Excavation
10	6	0.5	"	"	"	UC	
	7	0.5	"	"	"		
15	8	1.25	BROWN & GRAY	CLAY	STIFF		
	9	1.25	GRAY	"	"	UC	
20	10	1.75	"	"	"		w/ FERROUS 18'-20'
	11	1.5	"	"	"		
	12	2.5	LIGHT GRAY	"	VERY STIFF	UC	* TAN & BROWN - w/ CALCAREOUS & FERROUS 22'-26'
25	13	3.75	"	"	"		
	14	2.75	BROWN	"	"		* LIGHT GRAY
30	15	2.75	"	"	"	UC	
	16	2.75	"	"	"		
	17	3.0	LIGHT GRAY	"	"		* TAN
35	18	3.2	"	"	"		

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET		SAMPLE NO.		PEN./TORVANE		SPT.-BLOW COUNT		BORING NO. <u>91213</u> DATE: BEGIN <u>07-17-91</u> PAGE <u>2 11</u> JOB NO. <u>146 490</u> COMPLETE <u>07-17-91</u> Thin Walled Tube PROJECT <u>LTJW</u> ☒ 3" ☐ 6" LOCATION <u>SARGENT</u> ELEVATION OF HOLE _____ MANUFACTURER'S DESIGNATION OF DRILL RIG <u>F-36</u> GROUNDWATER: DEPTH <u>3</u> ft., ELEV. _____ ft., at end of Drilling WEATHER <u>PARTLY CLOUDY</u> DRILLER <u>Robert Tankersley</u> LOGGER <u>John H. Terbay</u>				
		COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS						
35		LIGHT GRAY	CLAY	HARD		*TAN & BROWN -w/ ALLOUS & FERROMS 36'-44'						
19	40	"	"	"								
20	4.5+	"	"	"								
21	4.5+	"	"	"								
22	4.5+	"	"	"	UC							
23	4.5+	"	"	"								
24	4.0	"	"	"								
25	3.0	BROWN	"	VERY STIFF		*LIGHT GRAY -w/ SILT POCKETS 48'-50'						
26	3.0	"	"	"								
27	3.5	"	"	"	UC							
28	3.5	"	"	"								
29	3.75	"	"	"		-w/ SAND LAYER						
30	4.25	BROWN	CLAY	HARD								
BOTTOM OF 91213												

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

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-213

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	1.25		Gray & brown, Clay, Stiff, w/Sand pockets	CH	30.0											
2	2-4	1.25		Brown, Clay, Stiff, w/Sand pockets	CH	24.3											
3	4-6	0.75		Gray, Clay, Medium stiff	CH	35.9										0.25	
4	6-8	0.50		Grayish brown, Clay, Medium stiff <i>Soft</i>	CH	42.2	78.2	111.2	54	19	99.9	99.9	99.4		91.9	0.30	0.32
5	8-10	0.25		Gray, Clay, Soft	CH	41.5										0.15	
6	10-12	0.50		Grayish brown, Clay, Medium stiff , w/Blocky structure <i>Soft</i>	CH	40.1	79.6	111.6	51	20	100.0	100.0	99.7		91.5	0.20	0.22
7	12-14	0.25		Grayish brown, Clay, Soft	CH	38.1										0.20	
8	14-16	0.75		Brown, Clay, Medium stiff	CH	41.2											
9	16-18	1.25		Dark gray, Clay, Stiff	CH	39.4	79.4	110.7	68	25	99.8	99.6	99.5		94.9		0.57
10	18-20	1.00		Dark gray, Clay, Stiff	CH	40.3											
11	20-22	1.00		Dark gray, Clay, Stiff	CH	26.7											
12	22-24	1.50		Olive gray & yellowish brown, Clay, Stiff, w/Calcareous & ferrous nodules	CH	39.8	81.0	113.2	96	33	99.9	99.6	99.4		95.8		0.82
13	24-26	2.00		Olive gray & yellowish brown, Clay, Very stiff	CH	22.9											
14	26-28	2.25		Brown & gray, Clay, Very stiff, w/Calcareous nodules & ferrous stains	CH	31.0											
15	28-30	2.25		Brown & gray, Clay, Very stiff, w/Blocky structure, Slickensided	CH	37.7	84.3	116.1	98	31	100.0	100.0	100.0		100.0		1.19
16	30-32	2.50		Brown & gray, Clay, Very stiff, w/Blocky structure	CH	33.7											
17	32-34	2.75		Gray & brown, Clay, Very stiff, Slickensided	CH	35.2											

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

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

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-213

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		
18	34-36	3.75		Brown & gray, Clay, Very stiff, w/Calcareous nodules, Slickensided	CH	30.5											
19	36-38	4.00		Yellowish brown, Clay, Very stiff, w/Calcareous nodules	CH	22.2											
20	38-40	4.00		Yellowish brown, Clay, Very stiff, w/Calcareous nodules	CH	23.6											
21	40-42	4.5+		Brown & gray, Clay, Hard, w/Calcareous nodules	CH	23.7											
22	42-44	4.5+		Brown & gray, Clay, Hard, w/Calcareous nodules	CH	22.6	105.7	129.6	50	19	100.0	99.5	97.8		90.4		2.52
23	44-46	4.5+		Brown & gray, Clay, Hard, Silty, w/Calcareous nodules & ferrous stains	CL	24.0											
24	46-48	4.5+		Brown & gray, Clay, Hard, Silty, w/Calcareous nodules	CL	19.7											
25	48-50	3.75		Brown, Clay, Very stiff, Silty	CL	20.3											
26	50-52	2.75		Brown, Clay, Very stiff, Silty	CL	21.1											
27	52-54	3.50		Brown & gray, Clay, Very stiff, w/Ferrous stains	CH	24.6	101.9	126.9	57	24	100.0	100.0	100.0		100.0		2.31
28	54-56	2.25		Brown, Clay, Very stiff	CH	24.6											
29	56-58	3.00		Brown, Clay, Very stiff	CH	24.0											
30	58-60	3.25		Brown, Clay, Very stiff	CH	23.1											

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