BKM

U.S. ARMY CORPS OF ENGINEERS

BORING NO. 91-68 DATE: BEGIN 3-06-91 PAGE 1 / 1
JOB NO. 14G 446 COMPLETE 3-6-91 Thin Walled Tube
PROJECT CHANNEL TO VICTORIA ☑ 3" ☐ 6"
LOCATION VICTORIA CHANNEL
ELEVATION OF HOLE
MANUFACTURER'S DESIGNATION OF DRILL RIG F-36
GROUNDWATER: DEPTH 7 ft., ELEV. ____ ft., at end of Drilling
WEATHER CLEAR & SUNNY
DRILLER ROBERT TANKERSLEY LOGGER JOHN P GENTRY

DEPTH, FEET	SAMPLE	SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
0		1	2.5	GRAY	CLAY	Very stiff		w/ ROOTS
		2	1.5	"	"	stiff		BENT TUBE WHILE PUSHING
5		3	2.0	"	"	Very stiff		SANDY CLAY LAYER
		4	2.0	*LIGHT GRAY	CLAY	Very stiff	SANDY	* TAN & RED
		5	2.0	"	"	"	"	
10		6	4/4/5	*LIGHT GRAY	SAND	LOOSE		* & TAN
		7	10/23/27	"	"	DENSE		
15		8	15/25/51	"	"	VERY DENSE		
20		9	4.0	*LIGHT GRAY	CLAY	V/St	SANDY	*TAN w/ CALC NODS & FERROUS BELOW 22'
		10	4.5+	"	"	Hard	"	
25		11	4.5+	"	"	Hard	"	
		12	4.0	"	"	Very stiff	"	
30								BOTTOM 91-68
35								

Project : Channel enlargement channel to victoria,Victoria,Texas

SUMMARY OF LABORATORY TEST RESULTS

El. 26.8' NGVD

Boring No. 91-68

Contract No. DACW64-91-D-0001 Delivery Order No. 0009

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	0-2	0.50		Gray,Clay,Medium stiff	CH	43.8											
2	2-4	0.75		Gray,Clay,Medium stiff	CH	33.9	82.9	111.0	91	32	100.0	100.0	99.9		76.8		
3	4-6	1.50		Gray,Clay,Stiff	CH	43.8											
4	6-8	2.50		Gray,Clay,Very stiff,Sandy	CL	20.2	106.5	128.0	40	18	100.0	99.9	99.4		64.9		
5	8-10	3.75		Gray&yellowish brown,Clay,Very stiff,Sandy	CL	17.3											
6	10.5-12		9	Tan,Sand,Loose,Silty	SM												
7	13.5-15		50	Tan,Sand,Dense,Silty	SP-SM						100.0	100.0	98.2		10.4		
8	18.5-20		52	Tan,Sand,Very dense,Silty	SM												
9	22-24	4.5+		Gray&yellowish brown,Clay,Hard,w/calca-reous nodules	CH	22.0											
10	24-26	4.5+		Gray&yellowish brown,Clay,Hard,w/calca-reous nodules	CH	21.1	108.1	130.9	57	23	99.3	98.2	97.1		74.8		
11	26-28	4.00		Gray&yellowish brown,Clay,Very stiff,w/ blocky structure and slickensided	CH	23.2											
12	28-30	4.00		Gray&yellowish brown,Clay,Very stiff,w/ blocky structure and slickensided	CH	29.4	95.8	124.0									

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