Tide 1.8 @ 2:00 P.M. HOLE NO. 3ST-146

DEPARTMENT OF THE ARMY
DIVISION Southwestern
INSTALLATION Galv Dist. Eng Div

DRILLING LOG

1. PROJECT: Matagorda Ship Channel
SHEET OF
2. LOCATION (Coordinates or Station)
3. DRILLING AGENCY: U. S. Army Corps of Engineers
4. HOLE NO. (As shown on drawing title and file No.): 3ST-146
5. NAME OF DRILLER: West
6. DIRECTION OF HOLE: ☐ VERTICAL ☐ INCLINED; DEGREES WITH VERTICAL
7. THICKNESS OF OVER-BURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE: 47.0
10. SIZE AND TYPE OF BIT
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
12. MANUFACTURER'S DESIGNATION OF DRILL
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED; UNDISTURBED
14. TOTAL NO. CORE BOXES
15. ELEV. GROUND WATER
16. DATE HOLE: STARTED 4 Dec; COMPLETED 4 Dec 1961
17. ELEV. TOP OF HOLE
18. TOTAL CORE RECOVERY FOR BORING (%)
19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
0.0	7.5		Water				
7.5	9.5		Gray silty sand, med w/shell particles			Jar 1	
9.5	10.0		Washed				
10.0	14.5		Washed, same as above			No sample	
14.5	16.0		Dark gray silty sand med w/tr shell frag 14.5-15.0 No count 15.0-15.5 5 blows 15.5-16.0 11 blows			Jar 2	
16.0	19.0		Washed				
19.0	20.0		19.0-19.5 No count 19.5-20.0 21 blows 20.0-20.5 33 blows Grey silty sand med w/shell small			Jar 3	
20.0	23.5		Washed, same as above			No sample	
23.5	25.0		23.5-24.0 No count 24.0-24.5 1 blow Grey sand shell 24.5-25.0 3 blows Grey sandy clay v/soft			Jar 4	
25.0	28.0		Washed, same as above			No sample	
28.0	30.0		Grey sandy clay soft w/tr shell fragments			Cont. 1	0.25
30.0	33.0		Washed, same as above			No sample	
33.0	35.0		Rust to light gray sandy clay v/stiff			Cont. 2	4.5
35.0	39.0		Same as above			No sample	
39.0	41.0		Rust to light grey sandy clay stiff			Cont. 3	3.25
41.0	45.0		Washed, same as below			No sample	
45.0	47.0		Gray silty sand med w/cal nod soft			Cont. 4	0.25
			Bottomed in above Weight of hammer 140# Drop Distance - 30"				

MATAGORDA SHIP CHANNEL & JETTIES
ALINGMENT "A"

TEST DATA SUMMARY

Sheet 7 of ___

FEATURE Log of Soil Boring

BORING NO.	SAMPLE NO.	DEPTH OR ELEV OF SAMPLE	LABORATORY CLASSIFICATION	MECHANICAL ANALYSIS: GRAVEL %	SAND %	FINES %	D_{50}	ATTERBERG LIMITS: LL	PI	SPECIFIC GRAVITY G	NATURAL WATER CONTENT %	NATURAL DRY DENSITY LBS/CU FT	COMPACTION DATA: OPTIMUM WATER %	MAXIMUM DRY DENSITY LBS/CU FT	SHEAR DATA: INITIAL e	DRY DENSITY LBS/CU FT	W_i %	W_F %	S_i %	TYPE TEST	SPECIMEN SIZE INCHES	TEST	σ_{III} T/SQ FT	σ_I T/SQ FT	C T/SQ FT	Ø DEGREES	PERMEABILITY: e	K FT/MIN	CONSOLIDATION DATA: P_o T/SQ FT	P_c T/SQ FT	C_c	t_{50}*	REMARKS
33T 146	61	0.0	= water	surface				(Elev		7.8'	MLT)																						
													water																				
		7.5		1-2-93																													
	5721		SP	1	96	3					26.4		Tan, sand (SP)																				
		9.5																															
	X		SP										Driller's Classification, same as above																				
		10.0																															
	X		SP										Driller's Classification, same as above																				
		14.5		1-2-88																													
	5722		sm-sp	0	91	9					23.9		Gray, silty sand (sm-sp), v/Dense																				16/15.0-16.0
		16.0																															
	X		sm-sp										Driller's Classification, same as above																				
		19.0		5-11-78																													
	5723		SP	2	94	4					21.2		Gray, sand (SP) v/Dense																				54/19.5-20.5
		20.0																															
	X		SP ✓										Driller's Classification, same as above																				
		23.5																															
	5724		SC ✓	4	60	32			5.0		31.6		Gray to Tan, clayey sand (SC), Loose																				4/24.0-25.0
		25.0																															
	X		SC ✓										Driller's Classification, same as above																				
		28.0																															
	5725		CL ✓	1	48	51	0.0	27.5	8.0		33.9	89.9	Gray to yellow, sandy clay (CL)																				
		30.0																															
	X		CL ✓										Driller's Classification, same as above																				
		33.0		1-0-53																													
	5726		SC ✓	0	54	46	3.5		10.0		16.8	115.3	Gray to yellow, clayey sand (SC) v/stiff, w/calcareous Nodules																				
		35.0																															
	X		SC ✓										Driller's Classification, same as above																				
		39.0																															
	5727		SC ✓	1	55	44	45+		8.0		16.9	114.5	Gray to yellow, clayey sand (SC), Hard, calcareous Nodules																				
		41.0																															
	X		SC ✓										Driller's Classification, same as above																				
		45.0		1-1-85																													
	5728		sm	0	87	13	0.25		0.0		22.0	105.9	Gray to yellow, silty sand (sm)																				
		47.0																															

Bottomed @ 47.0 below water surface in Gray to yellow, silty sand (sm)
Boring location Sta.
Tide 1.8' at 2:00 pm

* Values at Pressure T/SQ FT

- Triaxial Compression
UC - Unconfined Compression
DS - Direct Shear
UU - Unconsolidated Undrained
- Consolidated Drained
CU - Consolidated Undrained

X No Recovery

ENG Form 1 Dec 81 2086