HOLE NO. 3ST-142

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)	Tide 1.0 at 2:00 P.M.
3. DRILLING AGENCY	U. S. Army Corps of Engineers
4. HOLE NO. (As shown on drawing title and file No.)	3ST-142
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	46.0
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 30 Nov; COMPLETED 30 Nov 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	11.0		Water			
11.0	13.0		Dark gray silty clay w/tr of silt to shell frag, v/soft			Cont. 1 0.0
13.0	18.0		Lost sample			
18.0	20.0		Gray silty sand med fine			Jar 1
20.0	23.5		Washed			
23.5	25.0		Dark gray silty sand v/fine w/ w/tr of shell frag 23.5-24.0 No count 24.0-24.5 9 blows 24.5-25.0 15 blows			Jar 2
25.0	28.5		Washed, same as above			No sample
28.5	30.0		Gray silty sand w/tr shell frag v/fine 28.5-29.0 No count 29.0-29.5 15 blows 29.5-30.0 23 blows			Jar 3
30.0	33.5		Washed, same as above			No sample
33.5	35.0		Dark gray silty sand w/tr shell frag fine			Jar 4
35.0	38.5		Washed			No sample
38.5	40.0		Dark gray silt to sand v/fine w/tr shell particles 38.5-39.0 No count 39.0-39.5 46 blows 39.5-40.0 77 blows			Jar 5
40.0	44.5		Washed, same as above			No sample
44.5	46.0		44.5-45.0 No count 45.0-45.5 63 blows Light gray sandy shell, small 45.5-46.0 76 blows Gray silty sand v/fine Bottomed in above Weight of hammer 140# Drop Distance - 30"			Jar 6

MATAGORDA SHIP CHANNEL & JETTIE
ALINGMENT "A"

TEST DATA SUMMARY

FEATURE Log of Soil Borings

BORING NO.	SAMPLE NO.	DEPTH OR ELEV OF SAMPLE	LABORATORY CLASSIFICATION	MECHANICAL ANALYSIS GRAVEL %	SAND %	FINES %	D50	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_m T/SQ FT	σ_1 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	Δ_{mo}*	REMARKS
3ST 142	61	0.0	= water	surface				(Elev	7.0'		MLT)																						
		11.0		1-1-59																													
	5688		SM	0	59	41	0.0		6.0		37.1	84.4	Gray, silty sand (SM), v/soft																				
		13.0																															
	X												Lost sample																				
		18.0		0-0-90																													
	5689		SM-SP	0	90	10					30.0		Light Gray, silty sand (SM-SP)																				
		20.0																															
	X		SM-SP										No Drillers Classification, Assumed same as above																				
		23.5		1-0-79																													
	5690		SM-SP	1	80	19			0.0		26.8		Drak Gray, silty sand (SM-SP), v/Dense																				24/24.0-25.0
		25.0																															
	X		SM-SP										NO Drillers Classification, Assumed same as above																				
		28.5		0-1-76																													
	5691		SM	0	77	33			0.0		23.1		Brown silty sand (SM), v/Dense																				38/29.0-30.0
		30.0																															
	X		SM										Driller's Classification, same as above																				
		33.5																															
	5692		SM	Same as 61-5691							22.6		Brown, silty sand (SM)																				
		35.0																															
	X		SM										No Drillers Classification, Assumed same as above																				
		38.5		0-0-70																													
	5693		SM	0	70	30					24.2		Brown, silty sand (SM), v/Dense																				123/39.0-40.0
		40.0																															
	X		SM										Driller's Classification, same as above																				
		44.5		9-13-55																													
	5694		SM	3	77	20					26.6		Brown, silty sand (SM), v/Dense																				139/45.0-46.0
		46.0																															

Bottomed at 46.0' below water surface in Brown, silty sand (SM)
Boring location sta.
Tide 1.0' 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