HOLE NO. 3ST-144

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 1.7' @ 6.05 AM
	3. DRILLING AGENCY: U. S. Army Corps of Engineers
4. HOLE NO. (As shown on drawing title and file No.): 3ST-144	5. NAME OF DRILLER: Eck
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 1 Dec — COMPLETED 1 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	10.0		Water			
10.0	12.0		Gray sand w/shell fragments			Jar 1
12.0	14.0		Washed			
14.0	16.0		Gray sand w/shell fragments			Jar 2
16.0	19.0		Washed			
19.0	21.0		Gray sand w/shell frag & clay pockets			Jar 3
21.0	25.0		Washed, shell and sand			
25.0	27.0		Tan gray sandy clay w/traces of shell, hard			Cont. 1 4.25
27.0	30.0		Washed			
30.0	32.0		Tan clayey sand w/cal nod, hard			Cont. 2 4.50
32.0	35.5		Washed			
35.5	37.0		Light gray sand w/shell frag 35.5-36.0 No count 36.0-36.5 12 blows 36.5-37.0 21 blows			Jar 4
37.0	40.0		Washed			
40.0	41.5		Gray sand w/shell 40.0-40.5 No count 40.5-41.0 44 blows 41.0-41.3 56 blows 100 blows 10"			Jar 5
41.5	45.5		Washed			
45.5	47.0		Gray sand w/shell fragments 45.5-46.0 No count 46.0-46.5 1 blows 46.5-47.0 1 blows Bottomed in above Weight of hammer 140# Drop Distance - 30"			Jar 6

MATAGORDA SHIP CHANNEL & JETTIES
ALINGMENT "A"

TEST DATA SUMMARY

Sheet 5 of ___

FEATURE Log of Soil Boring

BORING NO.	SAMPLE NO.	DEPTH OR ELEV OF SAMPLE	LABORATORY CLASSIFICATION	MECHANICAL ANALYSIS: GRAVEL %	SAND %	FINES %	D10	ATTERBERG LIMITS: LL	PL	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
35T 144	61-	0.0	= Water Surface (Elev 1.7 MLT)																														
		10.0			0-0-93																												
	5703		sm-sp	0	93	7					28.5		Tan, silty sand (sm-sp)																				
		12.0																															
	X		sm-sp										No Drillers Classification, Assumed same as above																				
		14.0																															
	5704		sm-sp	Same as 61-5703							26.9		Tan, silty sand (sm-sp)																				
		16.0																															
	X		sm-sp										No Drillers Classification, Assumed same as above																				
		19.0			0-0-82																												
	5705		sm	0	82	18			0.0		24.4		Gray, silty sand (sm)																				
		21.0																															
	X		sm										No Drillers Classification, Assumed same as above																				
		25.0			0-1-56																												
	5706		sc	1	57	42	3.0		9.0		18.1	109.8	Gray to Rust, Clayey sand (sc), v/stiff, w/calcareous nodules																				
		27.0																															
	X		sc										No Drillers Classification, Assumed same as above																				
		30.0			0-0-74																												
	5707		sm	0	74	26	3.5		2.5		16.4	119.2	Gray to Rust, silty sand (sm), v/stiff, w/calcareous nodule																				
		32.0																															
	X		sm										No Drillers Classification, Assumed same as above																				
		35.5			5-4-79																												
	5708		sm-sp	4	88	8					26.6		Tan, silty sand (sm-sp), v/dense																			33/36.0-37.0
		37.0																															
	X		sm-sp										No Drillers Classification, Assumed same as above																				
		40.0			3-6-82																												
	5709		sm-sp	2	91	7					22.0		Gray, silty sand (sm-sp), v/dense																			100/45.5-46.3
		41.5																															
	X		sm-sp										No Drillers Classification, Assumed same as above																				
		45.5																															
	5710		sm-sp	Same as 61-5709							16.3		Gray, silty sand (sm-sp),																				2/46.0-47.0
		47.0																															

Bottomed at 47.0' below water surface in Gray, silty sand sm-sp
Boring Location Sta.
Tide 1.7' at 6:05 AM

* 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

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