HOLE NO. 3ST-145

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-145	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	7.0		Water				
7.0	9.0		Gray fine grain sand w/shell frag			Jar 1	
9.0	10.0		Washed, same as above				
10.0	11.5		10.0-10.5 No count 10.5-11.0 9 blows 11.0-11.5 14 blows Gray fine sand w/shell fragment			Jar 2	
11.5	14.5		Washed, same as above				
14.5	16.0		14.5-15.0 No count 15.0-15.5 28 blows 15.5-16.0 35 blows Gray fine sand w/shell traces			Jar 3	
16.0	17.0		Washed				
17.0	18.5		17.0-17.5 No count 17.5-18.0 4 blows 18.0-18.5 15 blows Gray silty sand w/shell frag			Jar 4	
18.5	20.0		Washed, same as above				
20.0	21.5		20.0-20.5 No count 20.5-21.0 7 blows 21.0-21.5 5 blows Gray silty sand w/traces of shell			Jar 5	
21.5	25.0		Washed, same as above				
25.0	27.0		Gray sandy clay w/shell frag soft			Cont. 1	0.15
27.0	30.0		Washed, same as above				
30.0	32.0		Tan gray sandy clay w/cal nod v/stiff			Cont. 2	3.75
32.0	35.0		Washed				
35.0	37.0		Tan gray clayey sand w/cal nods v/stiff			Cont. 3	3.00
37.0	40.0		Washed				
40.0	42.0		Tan aand w/numerous shell frag			Jar 6	
42.0	45.0		Washed				
45.0	47.0		Gray sand w/shell fragments			Jar 7	
			Bottomed in above Weight of hammer 140# Drop Distance - 30"				

MATAGORDA SHIP CHANNEL & JETTIES
ALINGMENT "A"

TEST DATA SUMMARY

FEATURE Log of soil Boring

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_{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
BST 145	61	0.0																															
		7.0		0	0	98																											
	5711		SP	0	98	2					28.0		Gray, Sand (SP)																				
		9.0																															
	X		SP										Driller's Classification, same as above																				
		10.0		0	0	98																											
	5712		SP	0	98	2					24.6		Gray, sand (SP), V/Dense																				23/10.5-11.5
		11.5																															
	X		SP										Driller's Classification, same as above																				
		14.5																															
	5713		SP	same as 61-5712							25.1		Gray, sand (SP), V/Dense																				63/15.0-16.0
		16.0																															
	X		SP									NO	Driller's Classification, Assumed same as above																				
		17.0		1	0	99																											
	5714		SM	0	80	20			0.0		25.7		Gray, silty sand (SM), Dense																				19/17.5-18.5
		18.5																															
	X		SM										Driller's Classification, same as above																				
		20.0		0	0	82																											
	5715		SM	0	82	18			0.0		32.9		Tan & Gray, silty sand (SM), Dense																				12/20.5-21.5
		21.5																															
	X		SM										Driller's Classification, same as above																				
		25.0																															
	5716		CL	0	13	87	.25	48.1	16.5		49.6	72.2	Yellow to Gray, Clay (CL), soft																				
		27.0																															
	X		CL										Driller's Classification, same as above																				
		30.0																															
	5717		SC	0	60	40	3.0		7.0		19.7	111.4	Yellow to Gray, clayey sand (SC), V/Stiff																				
		32.0																															
	X		SC										NO Drillers Classification, Assumed same as above																				
		35.0		5	3	50																											
	5718		SC	2	58	40	3.5		6.0		16.6	115.7	Yellow to Gray, clayey sand (SC), V/Stiff, Calcareous Nods																				
		37.0																															
	X		SC										No Drillers Classification, Assumed same as above																				
		40.0		7	20	65																											
	5719		SM-SP	1	92	7					24.4		Gray to Yellow, silty sand (SM-SP)																				
		42.0																															
	X		SM-SP										NO Drillers Classification, Assumed same as above																				
		45.0																															
	5720		SM-SP	6	88	6					22.7		Gray, silty sand (SM-SP)																				
		47.0																															

Bottomed at 47.0' below water surface in Gray silty sand (SM-SP

Boring Location Sta

Tide:

* Values at Pressure T/SQ FT

X No Recovery

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