BORING LOG
FIELD DATA

Project HARBOR ISLAND, PORT ARANSAS, TEXAS Location 2,518,826 ; 762,778 Date 3 JUNE 1974
Drill Rig FAILING 1500 Inspector LANGFORD Operator YOUNGER Surface elev
Levee District Job No. Boring No. 74-135

SAMPLE NUMBER	DATE TAKEN 1974	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER	CONTAINER	POCKET PENETROMETER VALUE	CLASSIFICATION AND REMARKS
	3 JUNE	0.0	76.0								WATER DEPTH 1800 HOURS
1		0.0		0.0	3.0	1.2	2.2	3" OSTERBERG	TUBE	0.0	GRAY SILTY, SANDY CLAY, VERY
											SOFT. VANE SHEAR .01 (.5)
2				3.0	6.0	3.4	4.0		JAR	0.0	VANE SHEAR 0.025 (1.25)
2 UNC						5.0	6.0		TUBE		
1 EC						0.0	6.0		JUG		
3				6.0	9.0	6.3	6.6		JAR	0.0	VANE SHEAR 0.04 (20)
3						6.6	7.8		TUBE		
3						7.8	9.0		TUBE		
4				9.0	12.0	10.7	12.0		JAR	0.0	VANE SHEAR 0.03 (15)
5				12.0	15.0	12.2	12.6		JAR	0.0	VANE SHEAR 0.02 (1)
5						12.6	13.8		TUBE		
5						13.8	15.0		TUBE		
6				15.0	18.0	16.0	16.8		TUBE	0.0	VANE SHEAR 0.06 (30)
6						16.8	18.0		TUBE		
7			21.0	18.0	21.0	18.6	19.8		TUBE	0.0	VANE SHEAR 0.05 (25)
7						19.8	21.0		TUBE		

WES FORM NO. 819 REV NOV 1971 PREVIOUS EDITION IS OBSOLETE

Sheet 1 of 2 Sheets

Boring No. 74-135
Levee District GALVESTON
Job No.

LABORATORY DATA

Date Classified by

CLASSIFICATION	SYMBOL	NAT WC %

BORING LOG
FIELD DATA

Project HARBOR ISLAND, PORT ARANSAS, TEXAS Location _____ Date _____

Drill Rig _____ Inspector _____ Operator _____ Surface elev _____

Levee District _____ Job No. _____ Boring No. 74-135

SAMPLE NUMBER	DATE TAKEN	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER	CONTAINER	POCKET PENETROMETER VALUE	CLASSIFICATION AND REMARKS
8				21.0	24.0	23.0	24.0 ✓		TUBE	0.50	MEDIUM, VANE SHEAR 0.1 (50)
		21.0									GRAY CLAY, MEDIUM.
9			27.0	24.0	27.0	25.8	27.0 ✓		TUBE	0.50	VANE SHEAR 1.5 (75)
2EC						22.0	26.0		JUG		
											TOTAL DEPTH 27.0' (103.0)

WES FORM NO. 819 REV NOV 1971 PREVIOUS EDITION IS OBSOLETE

Sheet 2 of 2 Sheets

Boring No. 74-135
Levee District GALVESTON
Job No. _____

LABORATORY DATA

Date _____ Classified by _____

CLASSIFICATION	SYMBOL	NAT WC %

12 July 1971

GDLR NO 1475

PROJECT: HARBOR ISLAND, PORT ARANSAS, TEXAS

BORING NO. 74-135

TEST DATA SUMMARY

LOCATION: 2,518,826; 762,778

DATE COMPLETED 3 June 1974

FIELD NO.	Sample Depth, Feet From	To	CLASSIFICATION ELEVATION TOP BORING _____	SYMBOL	CONSISTENCY	POCKET (1) PENETROMETER	STAN. PENET. BLOWS/FT (2)	MOISTURE CONTENT %	DRY DENSITY p. c. f.	L.L.	P.L.	Lab Sample No. 74A	BAR L.S.	SIEVE ANALYSIS PERCENT GRVL	SAND	FINES	INIT. WT.	ACC. WT. RTND. SIEVE NO. (3) NO. 4	NO. 10	NO. 40	NO. 200
	0.0	76.0	WATER																		
1C	1.2	2.2	Gray Clay 0'-4'60	CH	VS	0.0		57	63	57	22	1719		0	22	78	50	0	0	1	11
2J	3.4	4.0	sandy 1.2'-2.2'					63		54	21	1720		0	14	86	50	0	0	0	7
A2C	5.0	6.0	Brown & Gray Sandy Clay w/sand pockets 4'-6.6'	CL	VS	0.0		94	*	96	17	1721		0	18	82	50	0	0	0	9
3J	6.3	6.6	82.4					54		38	16	1722		0	20	80	50	0	0	0	10
A3C	6.6	7.8	Brown & Gray Clay 6.6'-12'	CH	VS	0.0		62	64	60	20	1723		0	12	88	50	0	0	0	6
B3C	7.8	9.0	sand pockets 10.7'-12' 88		VS	0.0		55	69	52	20	1724		0	10	90	50	0	0	0	5
4J	10.7	12.0						55		56	20	1725		0	10	90	50	0	0	0	5
5J	12.2	12.6	Gray Clay 12'-15'	CL				49		47	19	1726		0	6	94	50	0	0	0	3
A5C	12.6	13.8	91		VS	0.0		48	74	47	18	1727		0	6	94	50	0	0	0	3
B5C	13.8	15.0			VS	0.0		49	72	49	18	1728		0	6	94	50	0	0	0	3
6C	16.0	16.8	Gray Sandy Clay 15'-21'		VS	0.0		42	77	47	18	1729		0	16	84	50	0	0	0	8
A6C	16.8	18.0	sand pockets 16.3'-16.7'		VS	0.0		42	78	42	17	1730		0	20	80	50	0	0	0	10
7C	18.6	19.8	sand layers 16.9'-17.5' & 20.3'-21'		VS	0.0		46	77	42	17	1731		0	24	76	50	0	0	0	12
A7C	19.8	21.0			VS	0.0		29	91	31	20	1732		0	24	76	50	0	0	0	12
8C	23.0	24.0	Gray & Brown Clay 21'-24'60	CH	M	0.50		68	59	54	26	1733		0	2	98	50	0	0	0	1
9C	25.8	27.0	Gray Sandy Clay 24'-27' 103	CL	M	0.50		40	81	43	16	1734		0	18	82	50	0	0	0	9
			sand pockets 26'-26.4'																		
			shell fragments pockets 26.7'-26.9'																		
									* Disturbed												

KEY: CONSISTENCY — COHESIVE SOILS: VS Very Soft, S Soft, M Medium, ST Stiff, VST Very Stiff, H Hard. CONSISTENCY — COHESIONLESS SOILS: VL Very Loose, L Loose, M Medium, D Dense, VD Very Dense.
(1) Tons/Sq.Ft. Unconfined Compressive Strength
(2) Split Barrel Sampler
(3) Acc. Wt. Rtnd ÷ Init. Wt. x 100 = % Rtnd.

BORING NO. 74-135

Bottomed at 27.0' Water at _____ Tide Reading _____

Sheet 1 of sheets _____

UNCONFINED COMPRESSION TEST

DATE 7 D - - 4

PROJECT	EXCAVATION NUMBER	SAMPLE NUMBER
CC.IT Pit	74-135	C-2A (5.0-6.0

PROVING RING DIAL NUMBER	PROVING RING NUMBER	CALIBRATION CURVE NUMBER
	Cyl # 3	

PROVING RING CONSTANT, K_r	~~CURVE CALIBRATION NUMBER~~	RATE OF LOAD APPLICATION
		0°04

FORMULAS

Area $= \frac{\pi D^2}{4} = \frac{C^2 D}{4}$ Corrected Area, $A = \frac{A_o \text{ (sq. ft.)}}{1 - E}$ Unit Strain, $E = \frac{\Delta L}{L_o}$ Unit Stress $= \frac{P \text{ (lb.)}}{A \text{ (sq. ft.)}}$

INITIAL MEASUREMENTS ON SAMPLE	DIAMETER, D (in.)	CIRCUMFERENCE, C (in.)	AREA (sq. in.)	AVERAGE AREA, A_o SQ. IN.	SQ. FT.
TOP					
CENTER				HEIGHT, L_o (in.)	
BOTTOM					

ELAPSED TIME (min.)	PROVING RING DIAL READING (0.0001 in.)	LOAD, P (lb.) (Ring Dial x K_r, or from calibration curve)	VERTICAL DIAL READING (in.)	VERTICAL DIAL DIFFERENCE, ΔL (in.)	UNIT STRAIN, E (in./in.)	CORRECTED AREA, A (sq. ft.)	UNIT STRESS (lb./sq. ft.)
			025		.625	3.01	27.74
			050		1.25	3.03	41.35
			075		1.87	3.05	41.08
			100		2.50	3.06	54.59
			125		3.13	3.09	54.06
			150		3.75	3.11	67.14
			175		4.38	3.13	67
			200		5.00	3.15	66
			225		5.63	3.17	66
			250				
			275				
			300				
			325				
			350				
			375				
			400				
			425				
			450				
			475				
			500				

WATER CONTENT (%)
W. W. in Cyl #3 = 282 93%

UNCONFINED COMPRESSIVE STRENGTH, q_u (lb./sq. ft.)

REMARKS AND CALCULATIONS (Use reverse side, if more space is needed)

Pen - 00
Color- GR
Dish - 405
W. W.- 282 gr
D.W. - 154

TECHNICIAN (Signature)	COMPUTED BY (Signature)	CHECKED BY (Signature)

DD FORM 1 AUG 57 1213

GPO 931154