BORING LOG

FIELD DATA 12' E of Location

Project HARBOR Island Port Aransas Location 2,509,865; 768,018 Date 3 June 1974

Drill Rig 1500 Inspector Black Operator _____ Surface elev _____

Levee District _____ Job No. _____ Boring No. 74-133

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
	3 June	0.0	70.6								water depth
1		0.0		0.0	0.3			3" osterberg		0.0	(vane shear .04 tons ft²) (20)
						1.8	3.0		Tube		GR. SA. CL V/SOFT
				3.0	5.0						washaway
				5.0	8.0			osterberg		0.0	(vane shear .06 tons ft²) (30)
UNC 2						6.8	8.0		tube		GR. CL V/SOFT
				8.0	10.0						wash away
				10.0	13.0			osterberg		0.0	(vane shear .04 tons ft²) (20)
3						11.5	11.8		Jar		GR. CL V/SOFT
3						11.8	13.0		Tube		- -
				13.0	15.0						wash away
4				15.0	18.0	15.6	16.8	osterberg	TUBE	.25	(vane shear .06 tons ft²) (30)
4				18.0	20.0	16.8	18.0		TUBE		WASHED
				20.0	23.0					0.0	VANE SHEAR .09 (46)
UNC 5						20.3	21.5		TUBE		
5						21.5	23.0		TUBE		

WES FORM NO. 819 REV NOV 1971 PREVIOUS EDITION IS OBSOLETE

Sheet 1 of 2 Sheets

Boring No. 74-133

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 3 JUNE 1974
Drill Rig _____ Inspector _____ Operator _____ Surface elev _____
Levee District _____ Job No. _____ Boring No. 74-133

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
				23.0	25.0						WASHED
6				25.0	28.0	25.5	26.7		TUBE	0.25	VANE SHEAR 0.03
6						26.7	28.0		TUBE		
				28.0	30.0						WASHED
			33.0	30.0	33.0					0.25	WITH SAND AND SHELLS.
7						30.5	31.7		TUBE		VANE SHEAR 0.13
7						31.7	33.0		TUBE		
											TOTAL DEPTH 33.0' (103.6)

WES FORM NO. 819 REV NOV 1971 PREVIOUS EDITION IS OBSOLETE

Sheet 2 of 2 Sheets

Boring No. 74-133
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

BORING NO. 74-133

TEST DATA SUMMARY

LOCATION: 12' East of location

DATE COMPLETED 3 June 1974

FIELD NO.	Sample Depth, Feet From	Sample Depth, Feet 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. 74-	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	70.6	WATER																		
1C	1.8	3.0	Gray & Brown Clay w/shell fragments 0'-5'	CH	VS	0.0		78	54	63	22	1795		0	4	96	50	0	0	0	2
2C	6.8	8.0	Gray Clay 5'-10'	CL	VS	0.0		47	76	43	19	1796		0	12	88	50	0	0	0	6
3J	11.5	11.8	Gray Clay 10'-20'	CH				53		61	21	1797		0	2	98	50	0	0	0	1
A3C	11.8	13.0	1/2" sand pockets 16.6'-16.8' & 17.35'-17.4'		VS	0.0		56	66	55	20	1798		0	2	98	50	0	0	0	1
4C	15.6	16.8										1799									
A4C	16.8	18.0			S	0.25		46	73	69	22	1800		0	12	88	50	0	0	0	6
5C	20.3	21.5	Gray Clay (Sandy 20.3'-21.5') 20'-25'	CL	VS	0.0		39	81	40	16	1801		0	20	80	50	0	0	0	10
A5C	21.5	23.0	1/4" sand pocket at 22.2'		VS	0.0		38	82	43	17	1802		0	10	90	50	0	0	0	5
6C	25.5	26.7	Gray Clay 25'-26.7'	CH	S	0.25		74	56	89	28	1803		0	2	98	50	0	0	0	1
A6C	26.7	28.0	Gray Sandy Clay 26.7'-30'	CL	S	0.25		33	86	49	16	1804		0	38	62	50	0	0	3	19
7C	30.5	31.7	Gray Clay w/shell fragments 30'-33'	CH	S	0.25		69	59	73	27	1805		0	2	98	50	0	0	0	1
A7C	31.7	33.0			S	0.25		49	72	64	21	1806		0	10	90	50	0	0	0	5

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. 74-133

Bottomed at 33.0' Water at _____ Tide Reading _____

Sheet 1 of sheets 1

UNCONFINED COMPRESSION TEST

DATE 11/22/74		
PROJECT C.C. Entrance Channel	EXCAVATION NUMBER 74-132	SAMPLE NUMBER C-5 (20.3-21.5)
PROVING RING DIAL NUMBER	PROVING RING NUMBER	CALIBRATION CURVE NUMBER
PROVING RING CONSTANT, K_r	VERTICAL DIAL NUMBER Dial 3	RATE OF LOAD APPLICATION 0.040

FORMULAS

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

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.)
	5		[illegible]		.625	3.01	69
	12		[illegible]		1.25	3.03	165
	15		[illegible]		1.87	3.05	205
	16		[illegible]		2.50	3.06	246
	20		[illegible]		3.13	3.09	270
	22		[illegible]		3.75	3.11	295
	23		[illegible]		4.38	3.13	307
	24		[illegible]		5.00	3.15	318
	25		[illegible]		5.63	3.17	329
	26		[illegible]		6.25	3.19	340
	26		[illegible]		6.88	3.21	338
	27		[illegible]		7.50	3.23	349
	27		[illegible]		8.13	3.25	347
	28		[illegible]		8.75	3.28	356
	28		[illegible]		9.38	3.30	354
	28		[illegible]		10.00	3.32	352
	29	✓	[illegible]		10.63	3.34	363
	29		[illegible]		11.25	3.37	359
	29		[illegible]		11.88	3.39	357
	29		[illegible]		12.50	3.42	354
	28		525		13.13	3.44	352
	[illegible]		550		13.75	3.47	349

WATER CONTENT (%) Wet in Cyl #3 441 41%

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

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

Sum ~~Frosty~~ 0,0
Color Gray
LSAW - 291
L.W. - 393
D.W. - 244

W/ few small sand pockets

TECHNICIAN (Signature)	COMPUTED BY (Signature)	CHECKED BY (Signature)
Amo.		

DD FORM 1 AUG. 57 1213

Mon #3 — F

GPO 831154

14-(3

UNCONFINED COMPRESSION TEST

PROJECT: CC Eng Ch	EXCAVATION NUMBER: 74-133	SAMPLE NUMBER: C-2 [illegible]
PROVING RING DIAL NUMBER	PROVING RING NUMBER	CALIBRATION CURVE NUMBER
PROVING RING CONSTANT, K_r	VERTICAL DIAL NUMBER: Cyl #	RATE OF LOAD APPLICATION: 0°0 [illegible]

DATE

FORMULAS

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

INITIAL MEASUREMENTS ON SAMPLE				AVERAGE AREA, A_o	
	DIAMETER, D (in.)	CIRCUMFERENCE, C (in.)	AREA (sq. in.)	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.)
		5	025		.625	3.01	41
		5	050		1.25	3.03	69
		6	075		1.87	3.05	82
		7	100		2.50	3.06	96
		8	125		3.13	3.09	108
		9	150		3.75	3.11	121
		10	175		4.38	3.13	133
		10	200		5.00	3.15	133
		11	225		5.63	3.17	145
		11	250		6.25	3.19	144
		12	275		6.88	3.21	156
		12	300		7.50	3.23	155
		13	325		8.13	3.25	154
		13	350		8.75	3.28	166
		13	375		9.38	3.30	165
		14	400		10.00	3.32	176
		14	425		10.63	3.34	175
		14	450		11.25	3.37	173
		15	475		11.88	3.39	185
		15	500		12.50	3.42	183
		15	525		13.13	3.44	182
		15	550		13.75	3.47	181

WATER CONTENT (%): W. W. in Cyl # [illegible] 99%

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

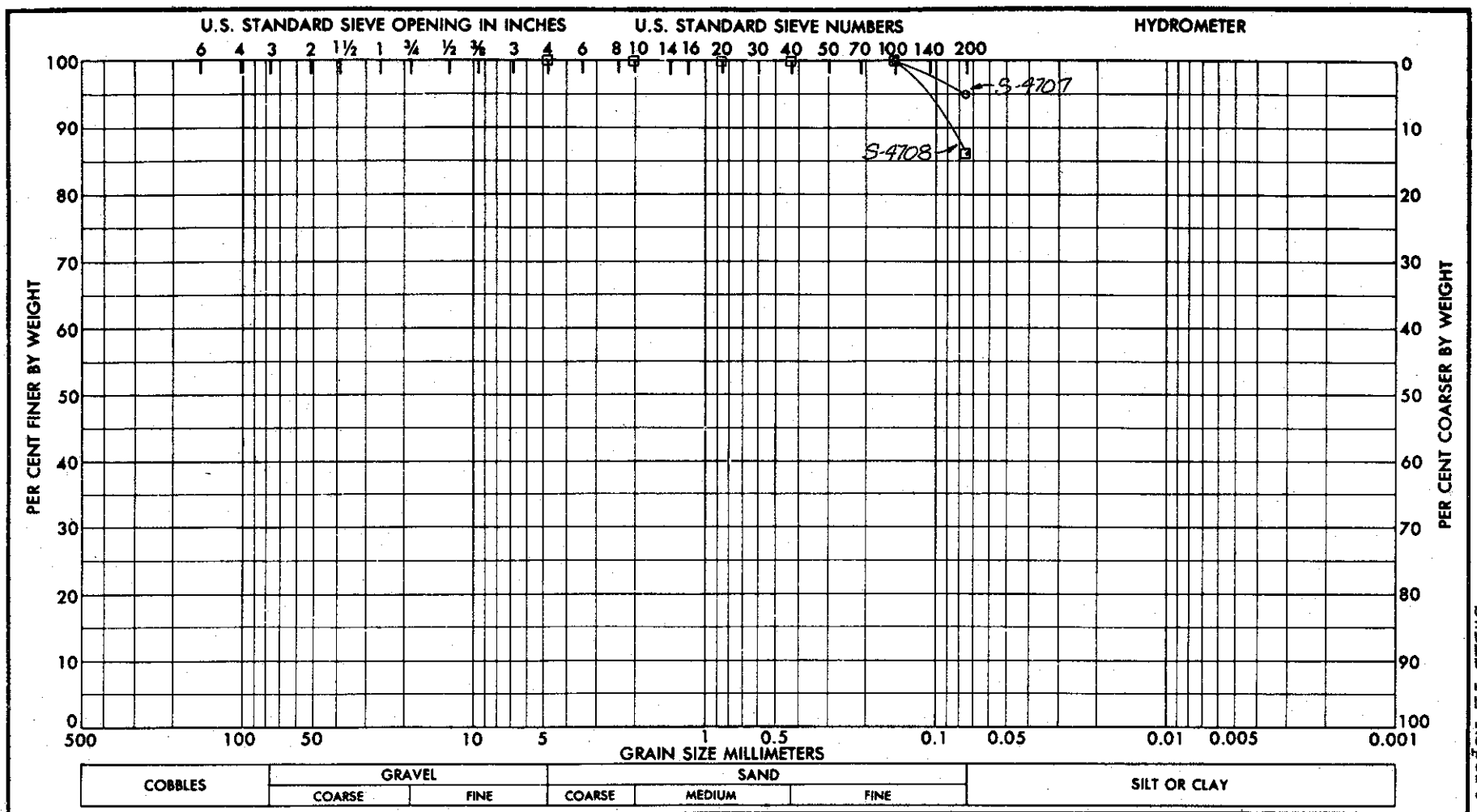
REMARKS AND CALCULATIONS (Use reverse side, if more space is needed)

Pen - [illegible]
Color - GR
Dish - 423
W. W. - 343GR
D. W. - 294

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

DD FORM 1 AUG 57 1213

GPO 931154



SAMPLE NO.	ELEV OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
S-4707	15.6-16.8	CLAY (CH)		53	17	36
S-4708	16.8-18.0	CLAY (CH)		59	16	43

PROJECT Corpus Christi Ship Channel

AREA

BORING NO. 74-133

DATE October 74

GRADATION CURVES

ENG FORM 2087
1 MAY 63

REPLACES WES FORM NO. 1241, SEP 1962, WHICH IS OBSOLETE.

U.S. GOVERNMENT PRINTING OFFICE : 1963 OF—709-126