

BORING LOG											
FIELD DATA											
Project <u>HARBOR ISLAND, PORT ARANSAS, TEXAS</u>						Location _____			Date _____		
Drill Rig _____				Inspector _____		Operator _____			Surface elev. _____		
Levee District _____				Job No. _____		Boring No. <u>74-130</u>					
SAMPLE NUMBER	DATE TAKEN	STRATUM		DRIVE		SAMPLE		TYPE OF SAMPLER	CONTAINER	POCKET PENETROMETER VALUE	CLASSIFICATION AND REMARKS
		FROM	TO	FROM	TO	FROM	TO				
			23.0	20.0	23.0						WASHED
5		23.0		23.0	23.5	23.3	25.0		JAR		GRAY SANDY CLAY, SOFT.
				23.5	24.0						5 BLOWS
				24.0	24.5						6 BLOWS
				24.5	25.0						
				25.0	28.0			3" SHELL TUBE			WASHED
				28.0	30.0	-	-		-		DID NOT RECOVER SAMPLE.
				28.0	29.5	-	-	DRIVE SAMPLER	-		WASHED ACCIDENTALLY,
6				29.5	30.0	30.0	31.5		JAR		WITH SHELL.
				30.0	30.5						21 BLOWS
			31.0	30.5	31.0						23 BLOWS
		31.0		31.0	31.5						GRAY FINE-MEDIUM QUARTZITIC
											SAND.
			34.0	31.5	34.0						WASHED

Sheet 2 of 3 Sheets

LABORATORY DATA

Date _____ Classified by _____

[illegible]

BORING LOG FIELD DATA											
Project <u>HARBOR ISLAND, PORT ARANSAS, TEXAS</u>								Location _____		Date _____	
Drill Rig _____				Inspector _____				Operator _____		Surface elev _____	
Levee District _____								Job No. _____		Boring No. <u>74-130</u>	
SAMPLE NUMBER	DATE TAKEN	STRATUM		DRIVE		SAMPLE		TYPE OF SAMPLER	CONTAINER	POCKET PENETROMETER VALUE	CLASSIFICATION AND REMARKS
		FROM	TO	FROM	TO	FROM	TO				
7		34.0	34.8	34.0	34.5	34.0	34.8		JAR	3.50	GREEN SANDY CLAY, VERY STIFF.
				34.5	35.0						26 BLOWS
				35.0	35.5						31 BLOWS.
		34.8		35.5	36.0						GREEN, GRAY FINE SAND.
				36.0	40.0						
8				40.0	40.5				JAR		
				40.5	41.0						26 BLOWS
				41.0	41.5						34 BLOWS.
			42.0	41.5	42.0						
											TOTAL DEPTH 42.0
											TOTAL DEPTH 102.5

[illegible]

PROJECT: HARBOR ISLAND, PORT ARANSAS, TEXAS

BORING NO. 74-130

LOCATION: 2,496,292; 776,031

TEST DATA SUMMARY

DATE COMPLETED 2 June 1974

[illegible]

KEY:	CONSISTENCY -- COHESIVE SOILS							CONSISTENCY -- COHESIONLESS SOILS				
	VS	S	M	ST	VST	H		VL	L	M	D	VD
	Very Soft	Soft	Stiff Medium	Stiff	Very Stiff	Hard		Very Loose	Loose	Medium	Dense	Very Dense

- (1) Tons/Sq. Ft. Unconfined Compressive Strength
- (2) Split Barrel Sampler
- (3) Acc. Wt. Retd ÷ Init. Wt. x 100 = % Retd.

BORING NO. 74-130

Bottomed at 42.0' Water at Tide Reading

Sheet 1 of sheets 1

1475

UNCONFINED COMPRESSION TEST						DATE 12/12/70	
PROJECT 20. Edt. Ch. Harbor Is.			EXCAVATION NUMBER 79-130		SAMPLE NUMBER C-1 (3.0-4.5)		
PROVING RING DIAL NUMBER		PROVING RING NUMBER		CALIBRATION CURVE NUMBER			
PROVING RING CONSTANT, K_r		XXXXXXXXXXXX Cyl #3		RATE OF LOAD APPLICATION 0.040			
FORMULAS $\text{Area} = \frac{\pi D^2}{4} = \frac{C^2}{4K_r}$ $\text{Corrected Area, } A = \frac{A_0 (\text{sq. ft.})}{1 - E}$ $\text{Unit Strain, } E = \frac{\Delta L}{L_0}$ $\text{Unit Stress} = \frac{P (\text{lb.})}{A (\text{sq. ft.})}$							
INITIAL MEASUREMENTS ON SAMPLE						AVERAGE AREA, A_0	
	DIAMETER, D (in.)	CIRCUMFERENCE, C (in.)	AREA (sq. in.)		SQ. IN.	FT.	
TOP							
CENTER					HEIGHT, L_0 (in.)		
BOTTOM							
ELAPSED TIME (min.)	PROVING RING DIAL READING (0.0001 in.)	LOAD, P (lb.) (Ring Dial $\times K_r$, 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.)
	2		025		.625	3.01	28
	3		050		1.25	3.03	41
	5		075		1.87	3.05	68
	6		100		2.50	3.06	82
	7		125		3.13	3.09	95
	8		150		3.75	3.11	107
	9		175		4.38	3.13	120
	9		200		5.00	3.15	119
	10		225		5.63	3.17	132
	10		250		6.25	3.19	131
	11		275		6.88	3.21	143
	11		300		7.50	3.23	142
	12		325		8.13	3.25	154
	12		350		8.75	3.28	153
	13		375		9.38	3.30	165
	13		400		10.00	3.32	164
	13		425		10.63	3.34	163
	14		450		11.25	3.37	173
	14		475		11.88	3.39	172
	14		500		12.50	3.42	171
	14				13.13	3.44	170
WATER CONTENT (%) W.W. in Cyl #3 420 58% UNCONFINED COMPRESSIVE STRENGTH, q_u (lb./sq. ft.)							
REMARKS AND CALCULATIONS (Use reverse side, if more space is needed) Pen - 0.0 Color - dk gray Dish - 291 W.W. - 321 D.W. - 210 large silt pocket (1" x diam) few voids							
TECHNICIAN (Signature)			COMPUTED BY (Signature)		CHECKED BY (Signature)		

1975

UNCONFINED COMPRESSION TEST

DATE
12/12/74
SAMPLE NUMBER
C-1 (3.0-4.5)

PROJECT
C.C. Ent. Ch. Harbor Is.
EXCAVATION NUMBER
79-130

PROVING RING DIAL NUMBER
PROVING RING NUMBER
CALIBRATION CURVE NUMBER
PROVING RING CONSTANT, K_r
~~RECORD DIAL NUMBER~~
Cyl #3
RATE OF LOAD APPLICATION
0.040

FORMULAS
$$\text{Area} = \frac{\pi D^2}{4} = \frac{C^2}{4}$$
$$\text{Corrected Area, } A = \frac{A_0 (\text{sq. ft.})}{1 - E}$$
$$\text{Unit Strain, } E = \frac{\Delta L}{L_0}$$
$$\text{Unit Stress} = \frac{P (\text{lb.})}{A (\text{sq. ft.})}$$

INITIAL MEASUREMENTS ON SAMPLE				AVERAGE AREA, A ₀	
	DIAMETER, D (in.)	CIRCUMFERENCE, C (in.)	AREA (sq. in.)	SQ. IN.	SQ. FT.
TOP					
CENTER				HEIGHT, L ₀ (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.)
	2		025		.625	3.01	28
	3		050		1.25	3.03	41
	5		075		1.87	3.05	68
	6		100		2.50	3.06	82
	7		125		3.13	3.09	95
	8		150		3.75	3.11	107
	9		175		4.38	3.13	120
	9		200		5.00	3.15	119
	10		225		5.63	3.17	132
	10		250		6.25	3.19	131
	11		275		6.88	3.21	143
	11		300		7.50	3.23	142
	12		325		8.13	3.25	154
	12		350		8.75	3.28	153
	13		375		9.38	3.30	165
	13		400		10.00	3.32	164
	13		425		10.63	3.34	163
	14		450		11.25	3.37	173
	14		475		11.88	3.39	172
	14		500		12.50	3.42	171
	14				13.13	3.44	170

WATER CONTENT (%)
W.W. in Cyl #3 420 53% UNCONFINED COMPRESSIVE STRENGTH, q_u (lb./sq. ft.)

REMARKS AND CALCULATIONS (Use reverse side, if more space is needed)
Pen - 0.0
Color - dk Gray
Dish - 291
W.W. - 321
D.W. - 210
large silt pocket (1" x diam)
few voids

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

331

SIEVE ANALYSIS

Date 1.22.75

Project

Corpus Christi

74-1771

Boring No.

74-130

Sample No.

3 (13.6-15.0)

Total wt in grams of sample, $W_s =$

217

Wt in grams of material > No. 4 sieve =

ML
*
Test No
Good

Sieve Openings		U. S. Standard Sieve Size or Number	Weight Retained in grams	Percent Retained		Percent Finer by Weight
Inches	Millimeters			Partial	Total	
3.00		3-in.				
2.00		2-in.				
1.50		1-1/2-in.				
1.00	25.4	1-in.				
0.750	19.1	3/4-in.				
0.500	12.7	1/2-in.				
0.375	9.52	3/8-in.				
0.250	6.35					
0.187	4.76	No. 4	0	0	100	
Pan						
0.132	3.36					
0.094	2.38					
0.079	2.00	No. 10	5 4	2	98	
0.047	1.19					
0.033	0.84	No. 20	11	5	95	
0.023	0.59					
0.0165	0.42	No. 40	14	7	93	
0.0117	0.297	No. 50	15	7	93	
0.0083	0.210	No. 70	17	7	93	
0.0059	0.149	No. 100	23	11	89	
0.0041	0.105	No. 140	123	56	24	
0.0029	0.074	No. 200	157	77	23	
Pan					100	0
Total weight in grams						

Partial percent retained = $\frac{\text{wt in grams retained on a sieve}}{\text{wt in grams of sample used for a given series of sieves}} \times 100$

Total percent retained = $\frac{\text{wt in grams retained on a sieve}}{\text{total wt in grams of oven-dry sample}} \times 100$

For an individual sieve, the percent finer by weight = percent finer than next larger sieve - percent retained on individual sieve

Remarks

Technician

W

Computed by

10

Checked by