

NOTE: SEE DRAWING NUMBER F-6 FOR SOILS NOTES.

REVISION	DATE	DESCRIPTION	BY

OFFICE OF THE DISTRICT ENGINEER
 U.S. ARMY ENGINEER DISTRICT, GALVESTON
 CORPS OF ENGINEERS
 GALVESTON, TEXAS

DRAWN BY: P.B.S.
 TRACED BY:
 CHECKED BY: J.T.F.
 SUBMITTED BY: *[Signature]*
 APPROVED BY: *[Signature]*

BRAZOS ISLAND HARBOR, TEXAS
 BROWNSVILLE CHANNEL
 DREDGING INSHORE REACH No. 1
 DISPOSAL AREAS Nos. 2 & 4
 BORING LOGS

Prepared under the direction of
 Brink P. Miller, Col., C.E.
 District Engineer

DATE: MAY 1992
 SCALE: AS SHOWN
 SPEC. DATE:
 DRAWING NUMBER: F-7
 SHEET 14 OF 17 FILE NO. BID 901-240

78.6

27

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET	SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	BORING NO. <u>92-26</u> DATE: BEGIN <u>3-17-92</u> PAGE <u>111</u>				
			JOB NO. <u>146535</u> COMPLETE <u>3-17-92</u> Thin Walled Tube				
			PROJECT <u>Brownsville Disp. Area</u> <input checked="" type="checkbox"/> 3" <input type="checkbox"/> 6"				
			LOCATION <u>" Ship Channel</u>				
			ELEVATION OF HOLE _____				
			MANUFACTURER'S DESIGNATION OF DRILL RIG <u>ARDCO - C-1000</u>				
			GROUNDWATER: DEPTH <u>Dry</u> ft., ELEV. _____ ft., at end of Drilling				
			WEATHER <u>Cloudy - Warm - T. Showers</u>				
			DRILLER <u>D. Mitchell</u> LOGGER <u>J. Berg</u>				
			COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
0							
	1	1.25	GRAY	CLAY	Stiff		
	2	0.25	"	"	Soft	Sand	
5	3	0.5	"	"	"	Silt	
	X 4	1/4	TAN	Sand	Very Loose		5' at 6'
10	X 5	1/12	GRAY	Silt	"		
	X 6	1/2	GRAY	Sand	Loose		w/ shell frags
15							Bottom of 92.26 15'
20							
25							
30							
35							

JOB NO. 14G538

DATE 4/9/92

PROJECT Disposal Areas Nos.2 and 4 for Brownsvill Ship Channel, Brown

DRING NO. 92-26

SAMPLE NO. 2

DEPTH 2-4 ft

SPECIMEN NO. 1

CLASSIFICATION

Gray, Clay, Very soft

Tare No.	M11	Height	5.595 in.
Tare plus Wet Specimen	392.45 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	288.97 gm	Initial Area	6.290 sq in.
Water Weight	103.48 gm	Volume	35.194 cu in.
Tare Weight	53.74 gm	Volume of Solids	cu in.
Wet Specimen	1023.18 gm	Void Ratio	
Dry Specimen	710.59 gm	Saturation	%
Water Content	43.99 %	Dry Density	76.9 lb/cu ft

Specific Gravity of Solids

LL = 55

PL = 23

PI = 32

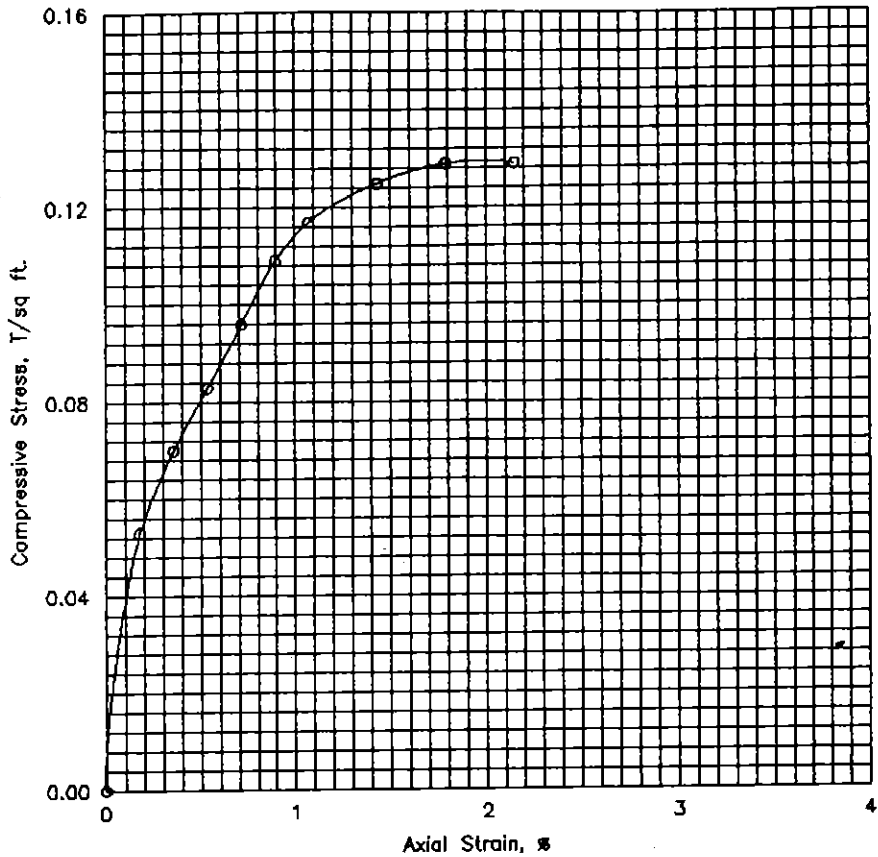
Proving Ring No. 10170

Proving Ring Constant, K = .766 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	6.0	4.6	.002	6.30	.053
.3	20.	.020	8.0	6.1	.004	6.31	.070
.5	30.	.030	9.5	7.3	.005	6.32	.083
.7	40.	.040	11.0	8.4	.007	6.34	.096
.9	50.	.050	12.5	9.6	.009	6.35	.109
1.0	60.	.060	13.5	10.3	.011	6.36	.117
1.4	80.	.080	14.5	11.1	.014	6.38	.125
1.6	100.	.100	15.0	11.5	.018	6.40	.129
1.9	120.	.120	15.0	11.5	.021	6.43	.129

Job No. 146538

Failure Sketches



Controlled stress
 Controlled strain

Test No.		1			
Type of Specimen		Undisturbed			
Initial	Water content	w_0	44.0 %		
	Void ratio	e_0			
	Saturation	S_0			
	Dry density, lb/cu ft	γ_d	76.9		
Time to failure, min		t_f	1.63		
Unconfined compressive strength, T/sq ft		q_u	.13		
Undrained shear strength, T/sq ft		S_u	.06		
Sensitivity ratio		S_r			
Initial specimen diameter, in.		D_0	2.830		
Initial specimen height, in.		H_0	5.595		

Classification Gray, Clay, Very soft

LL	55	PL	23	PI	32	G_s
----	----	----	----	----	----	-------

Remarks

Project Disposal Areas Nos. 2 and 4 for Brownsville	
Area Ship Channel, Brownsville, Texas	
Boring No. 92-26	Sample No. 2
Depth El 2-4 ft	Date 4/9/92

UNCONFINED COMPRESSION TEST REPORT