

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

BORING NO. 92-24 DATE: BEGIN 3-18-92 PAGE 1 1 1  
 JOB NO. 146535 COMPLETE 3-18-92 Thin Walled Tube  
 PROJECT Brownsville Disp. Area # 2  3"  6"  
 LOCATION " Ship Channel  
 ELEVATION OF HOLE \_\_\_\_\_  
 MANUFACTURER'S DESIGNATION OF DRILL RIG ARDCO-C-1000  
 GROUNDWATER: DEPTH Day ft., ELEV. \_\_\_\_\_ ft., at end of Drilling  
 WEATHER Cloudy-warm-showers  
 DRILLER D. Mitchell LOGGER J. Berg

DEPTH, FEET	SAMPLE	SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT
0	<input checked="" type="checkbox"/>	1	1-12"	
	<input checked="" type="checkbox"/>	2	1/1	
5	<input checked="" type="checkbox"/>	3	1/2	
	<input checked="" type="checkbox"/>	4	1/2	
10	<input checked="" type="checkbox"/>	5	.25	
	<input checked="" type="checkbox"/>	6	1/3	
15	<input checked="" type="checkbox"/>	7	1/3	
20				
25				
30				
35				

COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
Tan	Sand	Very Loose		SM AT SURFACE
Tan GRAY	"	"		
TAN	"	"		
Tan	"	"	w/cl. Balls	
GRAY	CLAY	Soft	SAND	SM. CL. AT 8'
GRAY	Sand	Loose		SM. AT 10'
TAN	Sand	Loose		w/shell FRAG Bottom of 92-24 15'



JOB NO. 14G538

DATE 4/9/92

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

LOGGING NO. 92-24

SAMPLE NO. 5

DEPTH 8-10 ft

SPECIMEN NO. 1

CLASSIFICATION

Gray, Clay, Soft, Sandy, w/sand pockets

Tare No.	P10	Height	5.595 in.
Tare plus Wet Specimen	449.30 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	354.30 gm	Initial Area	6.290 sq in.
Water Weight	95.00 gm	Volume	35.194 cu in.
Tare Weight	42.64 gm	Volume of Solids	cu in.
Wet Specimen	1096.07 gm	Void Ratio	
Dry Specimen	840.02 gm	Saturation	%
Water Content	30.48 %	Dry Density	90.9 lb/cu ft
Specific Gravity of Solids			
LL = 44	PL = 20	PI = 24	

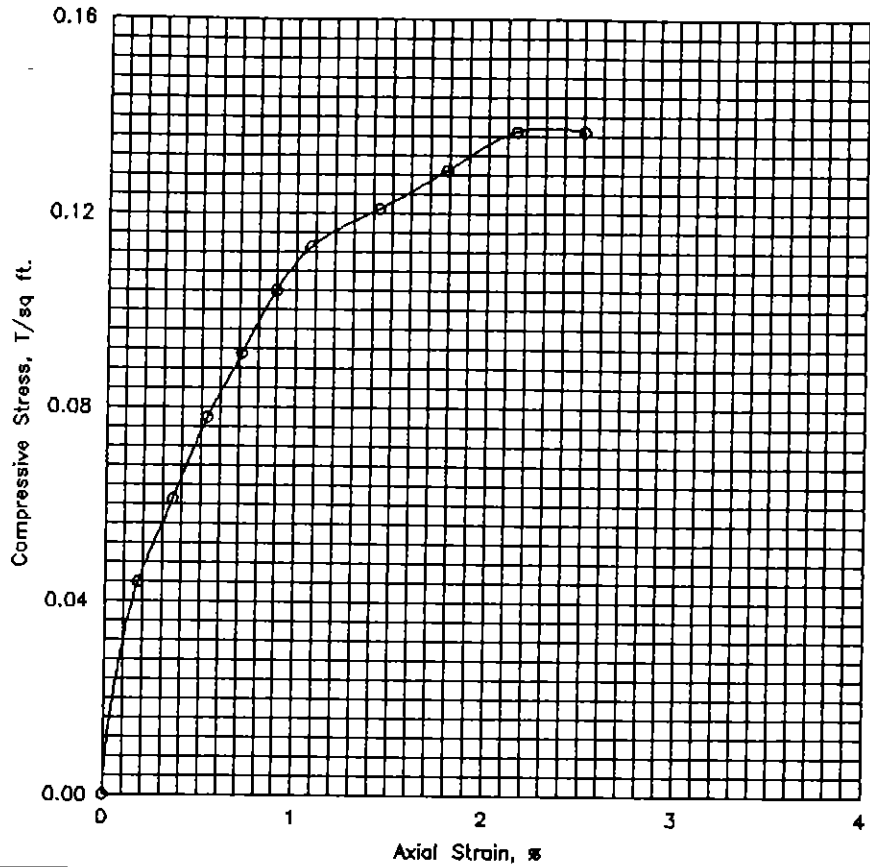
Proving Ring No. 10170

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	5.0	3.8	.002	6.30	.044
.3	20.	.020	7.0	5.4	.004	6.31	.061
.5	30.	.030	9.0	6.9	.005	6.32	.078
.7	40.	.040	10.5	8.0	.007	6.34	.091
.9	50.	.050	12.0	9.2	.009	6.35	.104
1.0	60.	.060	13.0	10.0	.011	6.36	.113
1.3	80.	.080	14.0	10.7	.014	6.38	.121
1.6	100.	.100	15.0	11.5	.018	6.40	.129
1.9	120.	.120	16.0	12.3	.021	6.43	.137
2.2	140.	.140	16.0	12.3	.025	6.45	.137

Job No. 14G538

Failure Sketches



- Controlled stress
- Controlled strain

Test No.		1			
Type of Specimen		Undisturbed			
Initial	Water content	$w_0$	30.5 %		
	Void ratio	$e_0$			
	Saturation	$S_0$			
	Dry density, lb/cu ft	$\gamma_d$	90.9		
Time to failure, min		$t_f$	1.90		
Unconfined compressive strength, T/sq ft		$q_u$	.14		
Undrained shear strength, T/sq ft		$S_u$	.07		
Sensitivity ratio		$S_r$			
Initial specimen diameter, in.		$D_0$	2.830		
Initial specimen height, in.		$H_0$	5.595		

Classification Gray, Clay, Soft, Sandy, w/sand pockets

LL 44      PL 20      PI 24       $G_s$

Remarks	Project Disposal Areas Nos. 2 and 4 for Brownsville	
	Area Ship Channel, Brownsville, Texas	
	Boring No. 92-24	Sample No. 5
	Depth 8-10 ft	Date 4/9/92
	UNCONFINED COMPRESSION TEST REPORT	

DATE 4/28/92 INITIALS LAN JC

SUMMARY OF QUESTIONABLE  
ERRONEOUS OR MISSING DATA  
FOR

CONTRACT NO. DACW64-92-D-0001

PROJECT: LABORATORY TESTING OF SOIL SAMPLES, DISPOSAL AREA NOS. 2 & 4 BROWNSVILLE SHIP CHANNEL, DELIVERY ORDER 0008

BORING NO.	SAMPLE NO.	COMMENTS ON TEST RESULTS
92-08	3	Pocket penetrometer results (0.75) indicate soil is medium torvane results (.75 doubled) indicates stiff.
92-12	1	Torvane performed not ordered
	2, 3	Pocket penetrometer results (1.00) indicate soil is stiff torvane results (.45 doubled) indicate medium
	14	Unit dry weight performed, not ordered
92-20	5 & 8	Pocket penetrometer results (0.50) indicate soil is medium torvane results (.25 doubled) indicate medium, unconfined results indicate soft.
	7	Pocket penetrometer results (0.50) indicate soil is medium torvane results (.25 doubled) indicate medium, unconfined results indicate very soft.
	18-20	Unit dry weight performed, not ordered
92-21	4	Pocket penetrometer results (.25) indicate soil is soft, unconfined results (.21) torvane results (.12 doubled) indicate very soft
92-24	5	Pocket penetrometer results (.25) indicate soil is soft, torvane results (0.24), unconfined results (.14) indicates very soft.