

Job No. 0401-2906 Completion Date 5/11/90 Time _____ Field Log of Boring 90-80

Elevation _____ Location Disposal Area No. 4 Driller D. Findley

Lab. Tests	Soil Sample			Depth (ft)	Sample	Blows	Torvane Penet.	Logger <u>K. Bowen</u> <u>Inf 2</u>	
	No.	Depth	Type					Comments	Description of Material
									SANDY CLAY, stiff - w/ shell fragments to 5'
	1	3-5	Q	5			1.5		
	2	5-7	Q				1.5		
	3	7-9	Q				1.25		
	4	9-11	Q	10					
		11-13							(12')
	5	13-15	J	15	X	1-2-1		No recovery	SAND, very loose, fine
									(18')
	6	18-20	J	20	X	1-1-1			CLAYEY SAND, very loose, fine, (20')
	7	20-22	Q				1.5		SANDY CLAY, stiff - firm to 24'
	8	22-24	Q				1.5		
	9	24-26	Q	25			1.75		
	10	26-28	Q				1.5		
	11	28-30	Q	30			1.75		
	12	30-32	Q				2.5		
	13	32-34	Q				2.5		
	14	34-36	Q	35			4.0		- very stiff below 30'
	15	36-38	Q						
	16	38-40	Q	40					(40')

Remarks:

Boring Sealed? w/ cuttings
 Dry Auger _____ to _____ ft
 Wet Rotary 0 to 49 ft
 Water First Noticed _____ ft

Depth to Water _____ Caved at _____ Date _____ Time _____ ; _____

Job No. 0401-2906 Completion Date 5/11/90 Time _____ Field Log of Boring 90-80

Elevation _____ Location Disposal Area No 4 Driller D. Findley

Lab. Tests	Soil Sample			Depth (ft)	Sample	Blows	Torvane Penet.	Logger <u>K. Bowen</u> <u>2 of 2</u>	
	No.	Depth	Type					Comments	Description of Material
									SAND, medium-dense, fine
									-w/ shell fragments at 40'
	17	43.5-45	J	45	5-5-6				-clayey sand below 44' (45')
	18	45-47	Q			1.5			SANDY CLAY, stiff
	19	47-49	Q			1.25			(49')
				50					
				55					
				60					
				65					
				70					
				75					
				80					

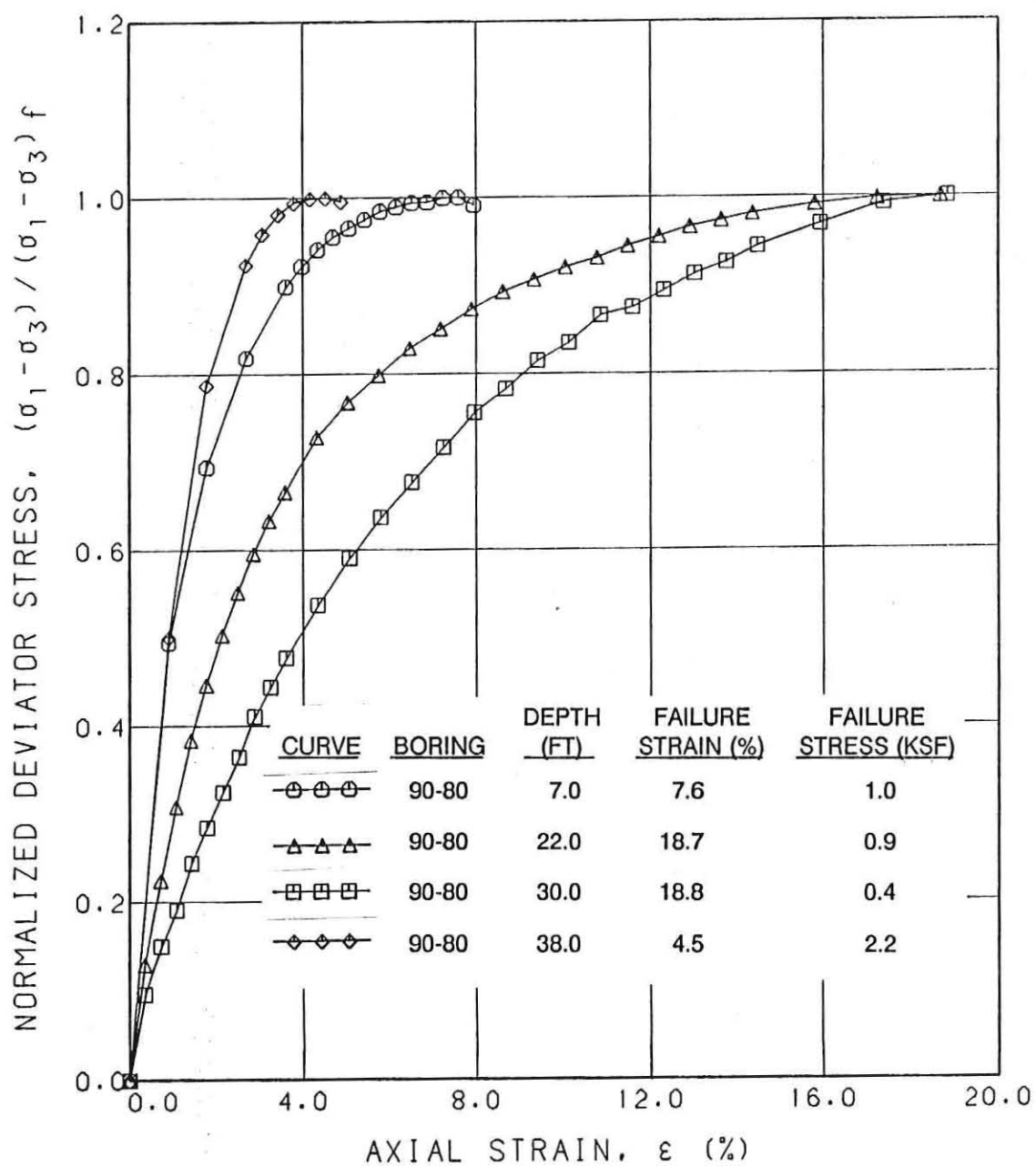
Remarks:

Boring Sealed? w/cuttings
 Dry Auger _____ to _____ ft
 Wet Rotary _____ to _____ ft
 Water First Noticed _____ ft

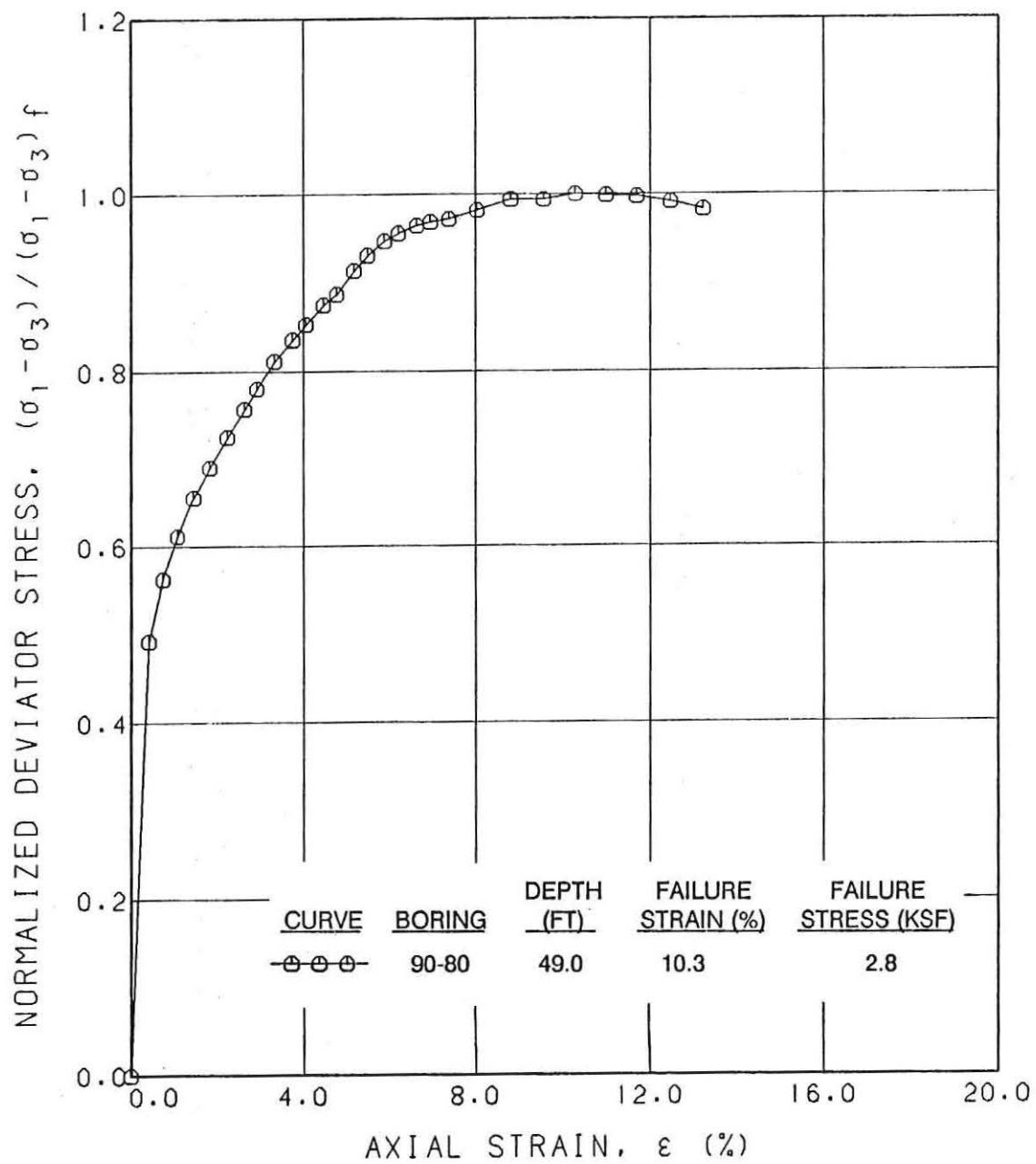
Depth to Water 6.7' Caved at 23.4' Date 5/12 Time 3:05;

SUMMARY OF TEST RESULTS
Galveston District, Corps of Engineers
Delivery Order No. 0016
Brazos Island Harbor
Brownsville Ship Channel

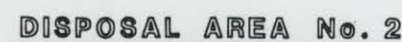
Boring Number	Sample Number	Sample Depth (ft)	Visual Classification	USCS	MC (%)	UDW (pcf)	LL	PL	PI	Gradation, % Passing Sieve No. 4 10 40 200				UNC Su (ksf)	TV Su (ksf)
90-79	1J	0-5	Brown fine SILTY SAND w/clay pckts	SM											
90-79	2Q	5-10	Firm brown CLAY w/ sand pckts, shell frags & ferrous nod	CH	28						100	93	82		
90-79	3Q	10-14	Firm brown CLAY w/ vert sandy clay sms & ferrous nods	CH	35										
90-79	4Q	14.5-15	Firm brown CLAY w/ ferrous nodules	CH	36	87	56	27			100	99	91	0.9	
90-79	5J	15-18	Olive gray fine SILTY SAND w/clay pckts & free water	SM											
90-79	6J	18-20	Olive gray fine SANDY SILT w/ clay pockets	ML							100	96	58		
90-79	7J	20-25	Brown CLAY w/silt pckts & sandy clay seams	CH											
90-79	8Q	25-27	Brown CLAY w/ferrous stains	CH	36	89	70						100		
90-79	9Q	27-29	Sample Not Received in Lab												
90-80	1Q	3-5	Stiff brown CLAY w/ silt partings & pockets	CH	31										
90-80	2Q	5-7	Firm brown CLAY w/ silt pockets	CH	41	75	65	30			100	99	96	0.5	
90-80	3Q	7-9	Firm dk gray and brown CLAY w/si parts & pckts & sa sms	CH	37										
90-80	4Q	9-11	Soft brown CLAY w/ silty clay sms & parts	CH	31										
90-80	5	13.5-15	Olive gray CLAY w/ silt partings	CH							92	87	84	83	
90-80	6	18.5-20	Olive gray CLAY w/ sand pockets	CH											
90-80	7	20-22	Firm brown CLAY w/ ferrous stns & silt pckts	CH	34								100	99	0.5
90-80	8	22-24	Stiff brown CLAY w/ silt pockets	CH	43										
90-80	9	24-26	Firm brown CLAY w/ silt pockets	CH	39										
90-80	10	26-28	Soft brown CLAY w/ silt pckts & ferrous stns	CH	37										
90-80	11	28-30	Soft brown CLAY w/ silt seams	CL	30	78	39	20			100	99	99	0.2	
90-80	12	30-32	Soft olive gray SILTY CLAY w/ clay pckts & ferrous stns	CH	30										
90-80	13	32-34	Stiff brown CLAY w/ silt pockets	CH	33										
90-80	14	34-36	Stiff brown CLAY w/ ferrous stains	CH	30										
90-80	15	36-38	Stiff brown CLAY	CH	32	89	68	28					100	1.1	
90-80	16	38-40	Sample Not Received in Lab												
90-80	17J	43.5-45	Brown CLAY	CH									100	99	
90-80	18Q	45-47	Sample Not Tested												
90-80	19Q	47-49	Stiff brown CLAY w/ silt pockets	CH	40	77	62	32					100	1.4	



STRESS-STRAIN CURVES
 UNCONFINED COMPRESSION TEST



STRESS-STRAIN CURVES
UNCONFINED COMPRESSION TEST



REVISION	DATE	DESCRIPTION	
OFFICE OF THE DISTRICT ENGINEER U.S. ARMY ENGINEER DISTRICT GALVESTON CORPS OF ENGINEERS GALVESTON, TEXAS			
DRAWN BY:	BRAZOS ISLAND HARBOR, TEXAS BROWNVILLE CHANNEL DREDGING INSHORE REACH NO. 1 DISPOSAL AREAS Nos. 2 & 4 BORING LOGS		
TRACED BY:			
CHECKED BY:			
SUBMITTED BY:			
APPROVED: <i>David Campbell</i> CHIEF, DISTRICT OF INSHORE SECTION	APPROVED: <i>Earl W. Hester</i> CHIEF ENGINEERING OFFICE		
APPROVED: <i>David Campbell</i> CHIEF, DISTRICT OF INSHORE SECTION	DATE: MAY 1952		
Prepared under the direction of Brink P. Miller, Col., C.E., District Engineer			
SCALES: AS SHOWN		SPEC. DATUM DRAWING NUMBER F-6	
SHEET 13 OF 17 FILE NO. RIO 910-204			