Job No. 0401-2906 Completion Date 5/16/90 Time ——— **Field Log of Boring** 90-68

Elevation ——— Location Disposal Area No. 5 Driller R. Aguilar

Logger W. Cutshall

Lab. Tests	Soil Sample No.	Depth	Type	Depth (ft)	Sample	Blows	Torvane Penet.	Comments	Description of Material
									CLAY, stiff to very stiff, light gray and greenish gray
	1	3-5	Q	5			1.75		
	2	5-7	Q				1.0		
	3	7-9	Q				1.0		
	4	9-11	Q	10			1.25		
	5	11-13	Q				1.25		
	6	13-15	Q	15			1.75		
	7	15-17	Q				2.0		
	8	17-19	Q				1.5	Disturbed sample	(19')
	9	19.5-21	J	20					CLAYEY SAND, greenish gray, fine
	10	22-24	Q				4.0		(24')
	11	24-25.5	J	25		14/20/28			SANDY CLAY, very stiff, greenish gray to light brown
	12	26.5-28.5	Q				4.25		-with calcareous nodules below 28'
	*			30			4.5+		(30')
				35					
				40					

Remarks: Cased to 5' depth

* Sample not returned to laboratory

Boring Sealed? w/cuttings

Dry Auger ___ to ___ ft

Wet Rotary 0 to 30 ft

Water First Noticed ___ ft

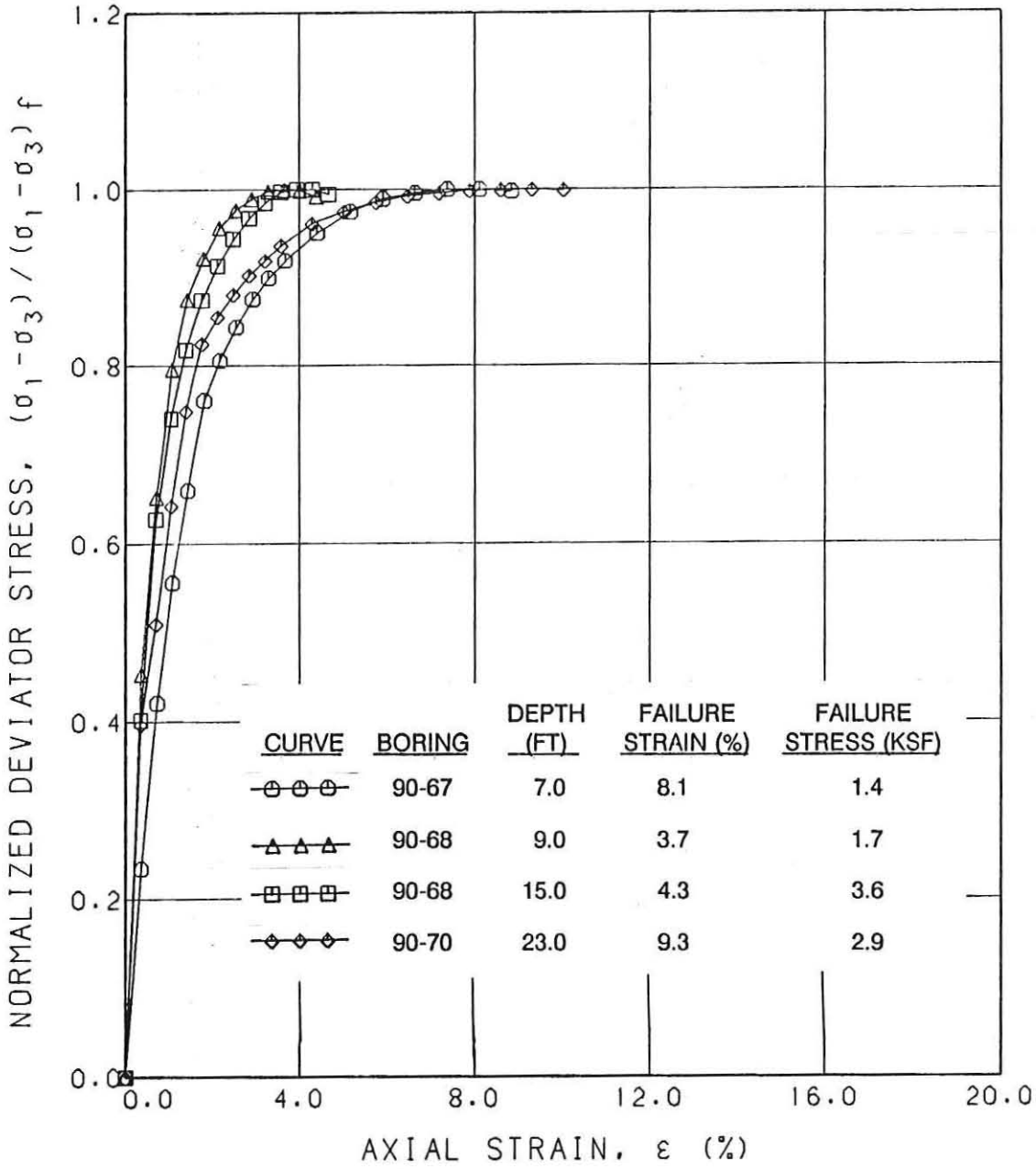
Depth to Water 2.1' Caved at ___ Date ___ Time ___ : ___

Form ONS-02.07(6/87)

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)
90-68	1Q	3-5	Stiff brown CLAY w/ fe stains	CH	37										
90-68	2Q	5-7	Stiff brown CLAY w/ si pckts & fe stns	CH	38										
90-68	3Q	7-9	Firm gray CLAY w/ few sand pockets	CH	49	72	64	26			100	99	97	0.8	
90-68	4Q	9-11	Firm olive gray CLAY	CH	42										
90-68	5Q	11-13	Very stiff brown CLAY w/ ferrous nodules	CH	34										
90-68	6Q	13-15	Stiff brown and gray CLAY w/ few sand pockets	CH	31	93	63	23			100	97	91	1.8	
90-68	7Q	15-17	Stiff brown CLAY w/ calc nodules	CH	33										
90-68	8Q	17-19	Very stiff brown CLAY w/ sa sms & calc nods	CH	33										
90-68	9J	19.5-21	Stiff ol gray and tan CLAYEY SAND w/cl pckts & calc nods	SC	21						100	76	36		
90-68	10Q	22-24	Stiff greenish gray and tan CLAYEY SAND	SC	18	111					100	75	28		
90-68	11J	24-25.5	Very stiff gray & red SANDY CLAY w/calc deps & fe stns	CL	17										
90-68	12Q	26.5-28.5	Very stiff red SANDY CLAY w/ calc nods & fe stns	CL	17		37								
90-69	1J	3-5	Stiff tan SANDY CLAY w/ sa sms & fe stns	CL	19										
90-69	2J	5.5-7	Gray and tan CLAYEY SAND w/cl sms & calc deps loose	SC	25						100	80	49		
90-69	3J	10.5-12	Brown CLAY w/ sa sms, fe stns & calc nods	CH	28										
90-69	4J	15.5-17	Brown CLAY w/ silty clay seams	CH	37						100	99	95		
90-69	5J	20.5-22	Soft gray CLAY w/ si pckts, fe stns & calc deps	CH	53										
90-69	6Q	25-27	Stiff gray and red CLAY w/ fe stns & calc nods	CH	33										
90-69	7Q	27-29	Gray CLAY w/fe stains and calc deposits	CH	33	88	76								
90-69	8Q	29-31	Very stiff red CLAY w/ calc deps & fe stns	CH	32										

PLATE 3



STRESS-STRAIN CURVES
UNCONFINED COMPRESSION TEST