

U.S. ARMY CORPS OF ENGINEERS
GEOTECHNICAL BORING DATA

BEM

PROJECT NAME Victoria Ship Channel

LOG OF BORING NO. 90-32

LOCATION / STATION 40 + 00

DATE / TIME STARTED 06/15/90 2 12:10 pm

DATE / TIME COMPLETED " " 1:20 "

TIDE ELEVATION + 2.3' MLT DATUM

WATER DEPTH 2.67'

6.7
3
-0.37

DEPTH FROM WATER SURFACE
TO BOTTOM OF BORING 27.17'

WEATHER Clear & Sunny

DRILL RIG MANUFACTURE
MODEL NO. CF-5

DRILLER Dempsey Geaven
LOGGER Aris Lazaridis

DRILLER'S / LOGGER'S COMMENTS —

Project : CHANNEL TO VICTORIA
VICTORIA, TEXAS

SUMMARY OF LABORATORY TEST RESULTS

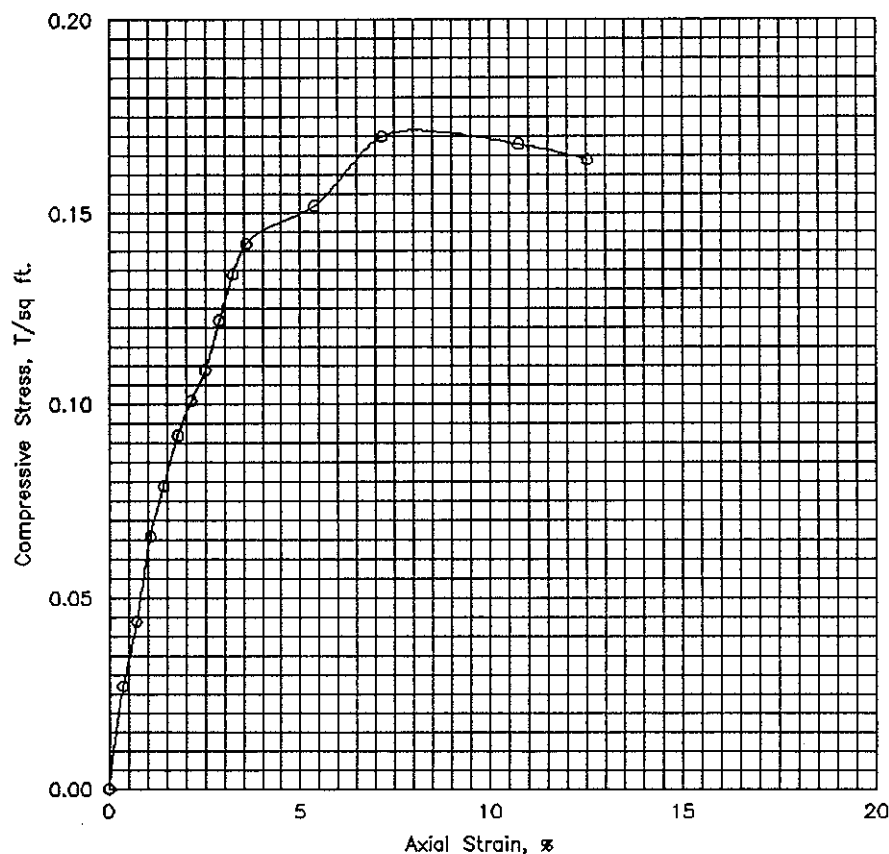
Boring No. 90-32

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	M c (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	LL (%)	P L (%)	Mechanical Analysis % Passing					Torvane Shear Strength (tsf)	q u (tsf)
											#4	#10	#40	#100	#200		
1	0 - 2	0.25		Dark gray, SILTY CLAY, very soft, slightly sandy, with shell fragments	CL	29.4											
2	2 - 4			Dark gray, CLAYEY SAND, very loose, silty, with shell fragments	SC	33.6			26		99.6	98.5	97.0	87.3	48.6		
3	4 - 6	0.00		Dark gray, CLAYEY SAND, very loose, silty, with shell fragments	SC	36.0											
4	6 - 8	1.00		Dark gray, SILTY CLAY, stiff, slightly sandy, with calcareous nodules	CL	27.0	102.8	130.6			100.0	99.6	98.8	95.3	76.5		
5	8 - 10	1.50		Gray, SILTY CLAY, stiff, with calcareous nodules	CL	23.5											
6	10 - 12	0.25		Gray and green (olive), SILTY CLAY, soft, with sand and calcareous nodules	CL	26.0	91.9	115.8	27	16	99.4	99.2	98.6	95.8	64.0	0.10	0.17
7	12 - 14			Light tan, SILTY SAND, loose	S M												
8	14 - 15.5		22	Gray and yellowish, SILTY SAND, medium dense, with clay and shell fragments	S M						99.7	97.9	95.5	67.3	34.6		
9	19 - 20.5		29	Gray and yellowish, SAND, medium dense, with calcareous nodules	S P												
10	23 - 24.5		24	Gray and yellowish, SAND, medium dense, with shell fragments	S P												

S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classification, M c : Moisture Content

q u : Unconfined Compressive Strength, W O H : Weight of hammer

Failure Sketches



Test No.		1			
Type of Specimen		Undisturbed			
Initial	Water content	w_0	26.0 %	%	%
	Void ratio	e_0			
	Saturation	S_0	%	%	%
	Dry density, lb/cu ft	γ_d	91.9		
Time to failure, min		t_f	4.10		
Unconfined compressive strength, T/sq ft		q_u	.17		
Undrained shear strength, T/sq ft		S_u	.09		
Sensitivity ratio		S_t			
Initial specimen diameter, in.		D_0	2.810		
Initial specimen height, in.		H_0	5.590		
Classification Gray and green, Silty CLAY, soft, with calcareous nodules					
LL	27	PL	16	PI	11
		G_s			
Remarks		Project CHANNEL TO VICTORIA, TEXAS			
		Area Channel to Victoria in San Antonio Bay, Texas			
		Boring No. 90-32		Sample No. 6	
		Depth 10-12 ft		Date 7/23/90	
		UNCONFINED COMPRESSION TEST REPORT			