

U.S. ARMY CORPS OF ENGINEERS
GEOTECHNICAL BORING DATA

BKM

PROJECT NAME Victoria Ship Channel

LOG OF BORING NO. 90-44

LOCATION / STATION 220+00

DATE / TIME STARTED 06/16/00 2 5:15 pm

DATE / TIME COMPLETED " " 7:10 "

TIDE ELEVATION + 2.50' MLT DATUM

WATER DEPTH 1:00 - 1.5

DEPTH FROM WATER SURFACE
TO BOTTOM OF BORING 22.50

WEATHER Clear & Sunny

DRILL RIG MANUFACTURE
MODEL NO. CF-5

DRILLER Dempsey
LOGGER Frick Lozandis

DRILLER'S / LOGGER'S COMMENTS —

DEPTH, FEET		SAMPLE	SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	BORING NO. <u>90-44</u> DATE: BEGIN <u>06/16/90</u> COMPLETE <u>06/16/90</u> JOB NO. <u>146404</u> LOGGER <u>Aris</u> PAGE <u>213</u> PROJECT <u>Victoria Ship Channel</u> LOCATION/STATION/ELEVATION: <u>Sta. 220+00 / E.P. + 2.50 M.L.T.</u>						
DEPTH: AUGERED _____ WASHED <u>23.5</u> CORED _____						GROUNDWATER READINGS						
TIME		DEPTH		TIME		DEPTH		TIME		DEPTH		
FIRST												
CONSISTENCY		COLOR		MINOR		MAJOR		MODIFICATION				
0	X	1	WOP	V/Loose	Green	Green	SILT	-w/shells				
	X	2	WOP	"	"	"	"	"				
5	X	3	WOP	"	"	"	"	"				
	X	4	WOP	"	"	"	"	"				
	X	5	WOP	"	"	"	"	"				
10	X	6	WOP	"	"	"	"	"				
		7	1.25	Stiff	Green & Tan		CLAY	-w/shells; 9" sample				
15		8	2.50	V/Stiff	"	Silt	"	-				
		9	1.25	Stiff	"	"	"	-w/ Green sand; 8" sample				
20	X	10	1 1/3	Loose	L/Green		SAND	-w/ Green sand; 8" sample				
	X	11	4/6/12	M/Dense	"		"	-				
25		Bottom of Boring										

 CONTINUED: ☐ YES ☒ NO

Project : VICTORIA SHIP CHANNEL, TEXAS**SUMMARY OF LABORATORY TEST RESULTS**Boring No. 90-44

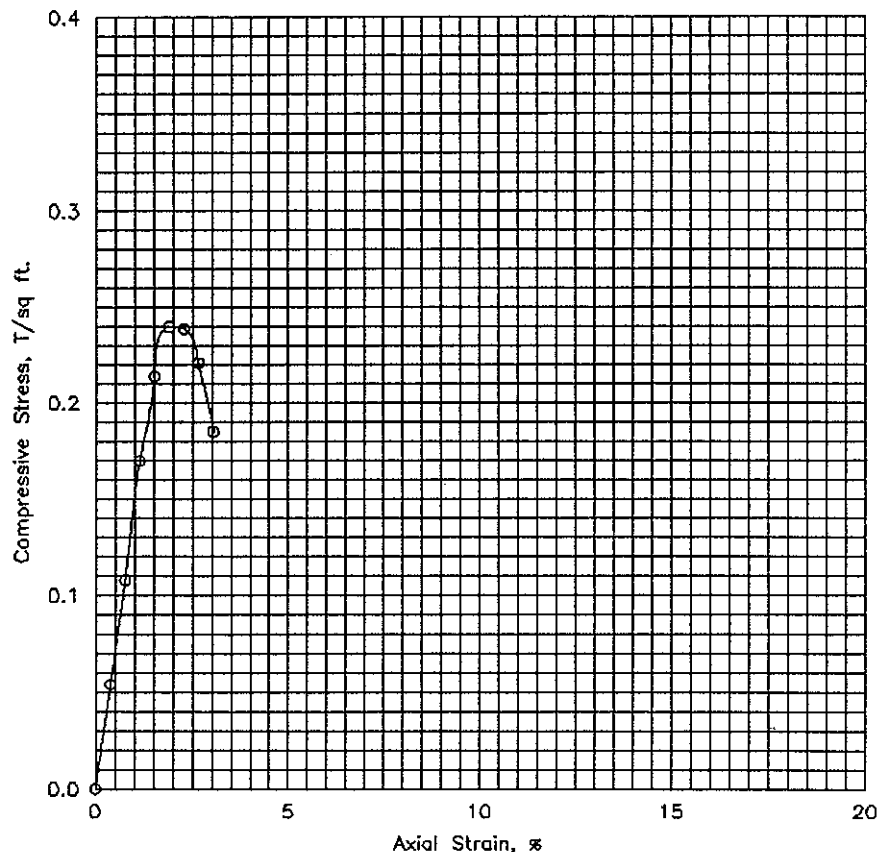
S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	M c (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	P L (%)	Mechanical Analysis % Passing					Torvane Shear Strength (tsf)	q u (tsf)
											#4	#10	#40	#100	#200		
1	0 - 1.5		WOP	Gray, SANDY SILT, very loose, with shell fragments	M L	27.3											
2	2 - 3.5		WOP	Gray, CLAYEY SILT, very loose, with shell fragments	M L	41.5					100.0	99.8	98.9	98.5	74.1		
3	4 - 5.5		WOP	Gray, CLAYEY SILT, very loose, with shell fragments	M L	35.1											
4	6 - 7.5		WOP	Gray, CLAYEY SILT, very loose, with clay seams and shell fragments	M L	34.1											
5	8 - 9.5		WOP	Gray, CLAYEY SAND, very loose, with clay seams and shell fragments	S C	38.7					98.6	98.1	96.7	57.8	34.4		
6	10 - 11.5		WOP	Gray, CLAY, very soft, with silt and shell fragments	CH	38.6			69								
7	12 - 14	2.50		Light gray and tan, CLAY, very stiff, with silt seams	CH	31.9										0.50	
8	14 - 16			Gray and tan, SILTY SAND, loose, with gravel, the upper portion contained sandy clay pockets	S M	21.2	109.7	133.0	N P	N P	99.1	98.3	97.3	64.6	38.7		0.24
9	16 - 18			Gray and tan, SILTY SAND, loose	S M	18.6											
10	18 - 19.5		6	Gray, SILTY SAND, loose	S M												
11	22 - 23.5		18	Gray and tan, SAND, medium dense	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, W O P : Weight of pipe

Job No. 14G404

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.		1			
Type of Specimen		Undisturbed			
Initial	Water content	w_0	21.2 %	%	%
	Void ratio	e_0			
	Saturation	S_0	%	%	%
	Dry density, lb/cu ft	γ_d	109.7		
Time to failure, min		t_f	1.73		
Unconfined compressive strength, T/sq ft		q_u	.24		
Undrained shear strength, T/sq ft		S_u	.12		
Sensitivity ratio		S_t			
Initial specimen diameter, in.		D_0	2.790		
Initial specimen height, in.		H_0	5.260		
Classification Gray and tan, Sandy CLAY, loose with gravel					
LL	NP	PL	NP	PI	NP
Remarks		Project CHANNEL TO VICTORIA, TEXAS			
		Area Channel to Victoria in San Antonio Bay, Texas			
		Boring No. 90-44		Sample No. 8	
		Depth 14-16 ft		Date 7/30/90	
		UNCONFINED COMPRESSION TEST REPORT			