ɔject: Greens Bayou

SUM OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-90

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing					Torvane Shear Strength (tsf)	q u (tsf)
											#4	#10	#40	#100	#200		
1	0 - 2	1.00		Sandy Clay,w/grass roots,Stiff,Dark gray	C L	20.7											
2	2 - 4	1.00		Sandy Clay,Stiff,Dark gray	C L	17.1	106.7	125.0	26.0	18.0	100.0	99.7	99.4	95.2	77.8		1.20
3	4 - 6	0.75		Sandy Clay,w/fer stains,Medium stiff,Gray & Yellowish gray	C L	21.1											
4	6 - 8	2.00		Sandy Clay,w/fer nod,Very stiff,Gray & Yellowish gray	C L	17.6											
5	8 - 10	2.25		Sandy Clay,w/fer nod,Very stiff,Gray & Yellowish gray	C L	17.3											
6	10 - 12	2.75		Sandy Clay,w/fer nod,Very stiff,Gray & Yellowish gray	C L	18.6											
7	12 - 14	3.00		Silty Clay,w/fer stains & sand seams,Very stiff,Gray & Brown	C L	16.8	108.7	127.0	49.0	18.0							
8	14 - 16	3.50		Clay,w/fer stains & sand seams,Very stiff, Brown & gray	C H	18.6											
9	16 - 18	3.75		Clay,w/fer stains & sand seams,Very stiff, Brown & gray	C H	19.0	105.3	125.3	54.0	22.0							

S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classifcation, M c : Moisture Content
q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

JOB NO. 114008614 DATE 2/26/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-90 SAMPLE NO. 2 DEPTH 2-4 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,Stiff,Dark Gray

Tare No.	WB4	Height	5.595 in.
Tare plus Wet Specimen	442.88 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	384.54 gm	Initial Area	6.290 sq in.
Water Weight	58.34 gm	Volume	35.194 cu in.
Tare Weight	43.09 gm	Volume of Solids	cu in.
Wet Specimen	1154.63 gm	Void Ratio	
Dry Specimen	986.14 gm	Saturation	%
Water Content	17.09 %	Dry Density	106.7 lb/cu ft
Specific Gravity of Solids			

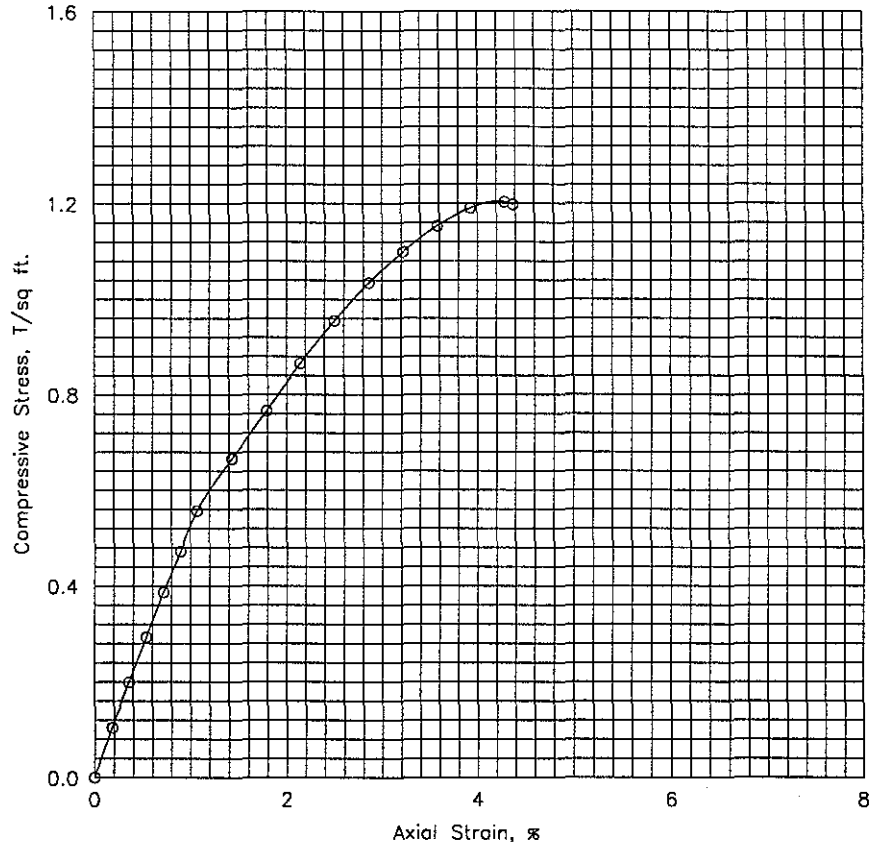
LL = 26 PL = 18 PI = 8

Proving Ring No. 10170
Proving Ring Constant, K = .757 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	12.0	9.1	.002	6.30	.104
.3	20.	.020	23.0	17.4	.004	6.31	.199
.5	30.	.030	34.0	25.7	.005	6.32	.293
.7	40.	.040	45.0	34.1	.007	6.34	.387
.8	50.	.050	55.0	41.6	.009	6.35	.472
1.0	60.	.060	65.0	49.2	.011	6.36	.557
1.3	80.	.080	78.0	59.0	.014	6.38	.666
1.6	100.	.100	90.0	68.1	.018	6.40	.766
2.0	120.	.120	102.0	77.2	.021	6.43	.865
2.3	140.	.140	113.0	85.5	.025	6.45	.955
2.7	160.	.160	123.0	93.1	.029	6.48	1.035
3.0	180.	.180	131.0	99.2	.032	6.50	1.099
3.3	200.	.200	138.0	104.5	.036	6.52	1.153
3.6	220.	.220	143.0	108.3	.039	6.55	1.190
4.0	240.	.240	145.0	109.8	.043	6.57	1.203
4.1	245.	.245	144.5	109.4	.044	6.58	1.197

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	17.1 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	106.7			
Time to failure, min		t_f	3.97			
Unconfined compressive strength, T/sq ft		q_u	1.20			
Undrained shear strength, T/sq ft		S_u	.60			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,Stiff,Dark Gray

LL	26	PL	18	PI	8	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-90 | Sample No. 2

Depth El 2-4 ft | Date 2/26/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.