Project: Greens Bayou

SUMMARY OF LABORATORY TEST RESULTS

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

Boring No. 97-72

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 #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)
1	0 - 2	3.75		Sandy Clay,w/roots,Very stiff,Gray	C L	13.2											
2	2 - 4	1.50		Sandy Clay,w/ferrous nodules,Stiff,Gray	C L	16.8	103.3	120.6									
3	4 - 6	4.25		Sandy Clay,w/calcareous&ferrous nodules, Hard,Gray	C L	16.6											
4	6 - 8	1.75		Sandy Clay,w/calcareous&ferrous nodules, Stiff,Gray & Yellowish gray	C L												
5	8 - 10	1.75		Sandy Clay,w/calcareous&ferrous nodules, Stiff,Gray & Yellowish gray	C L	15.6	110.5	127.8	28.0	14.0	99.6	99.2	99.0	90.2	66.1		1.48
6	10 - 12	4.00		Clay,w/calcareous nod & fer stains,Very stiff, Gray & Brown	C H	19.2											
7	12 - 14	4.5+		Clay,w/calcareous nod & fer stains,Hard, Gray & Brown	C H	12.2											
8	14 - 16	4.25		Clay,w/calcareous nod & fer stains,slks, Hard,Gray & Brown	C H												
9	16 - 18	4.25		Clay,w/calcareous nod & fer stains,slks, Hard,Gray & Brown	C H	27.4											
10	18 - 20	4.25		Clay,w/calcareous nod & fer stains,slks, Hard,Gray & Brown	C H	22.0	96.0	117.1	62.0	23.0	99.3	98.2	97.7	97.6	97.2		4.22
11	20 - 22	2.25		Clay,Very stiff,Red & Gray	C H	24.7											
12	22 - 24	2.00		Clay,Very stiff,Red & Gray	C H	24.9											
13	24 - 26	4.5+		Clay,slks,Hard,Red & Gray	C H	19.5											
14	26 - 28	4.50		Clay,slks,Hard,Red & Gray	C H	19.2											
15	28 - 30	4.50		Clay,slks,Hard,Red & Gray	C H	27.0	93.4	118.6	64.0	23.0	100.0	100.0	99.7	99.2	98.7		3.42
16	30 - 32	4.5+		Clay,w/calcareous nodules,slks,Hard, Red & Gray	C H	23.4											
17	32 - 34	4.5+		Clay,w/calcareous nodules,slks,Hard, Red & Gray	C H	19.6											
18	34 - 36	4.5+		Clay,w/calcareous nodules,slks,Hard, Red & Gray	C H	25.4											
19	36 - 38	4.5+		Clay,w/calcareous nodules,slks,Hard, Red & Gray	C H	22.4											
20	38 - 40	4.5+		Clay,w/calcareous nodules,slks,Hard, Red & Gray	C H	23.8											

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 3/11/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-72 SAMPLE NO. 5 DEPTH 8-10 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/calc & fer nod,Stiff,Gray & yellowish gray

Tare No.	IM-11	Height	5.595 in.
Tare plus Wet Specimen	258.66 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	229.58 gm	Initial Area	6.290 sq in.
Water Weight	29.08 gm	Volume	35.194 cu in.
Tare Weight	42.91 gm	Volume of Solids	cu in.
Wet Specimen	1180.34 gm	Void Ratio	
Dry Specimen	1021.25 gm	Saturation	%
Water Content	15.58 %	Dry Density	110.5 lb/cu ft
Specific Gravity of Solids			

LL = 28 PL = 14 PI = 14

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	14.0	10.6	.002	6.30	.121
.3	20.	.020	19.5	14.8	.004	6.31	.168
.5	30.	.030	24.5	18.5	.005	6.32	.211
.7	40.	.040	28.0	21.2	.007	6.34	.241
.9	50.	.050	32.0	24.2	.009	6.35	.275
1.0	60.	.060	35.0	26.5	.011	6.36	.300
1.4	80.	.080	42.0	31.8	.014	6.38	.359
1.7	100.	.100	48.5	36.7	.018	6.40	.413
2.0	120.	.120	55.5	42.0	.021	6.43	.471
2.3	140.	.140	62.0	46.9	.025	6.45	.524
2.7	160.	.160	69.0	52.2	.029	6.48	.581
3.0	180.	.180	76.0	57.5	.032	6.50	.637
3.3	200.	.200	83.0	62.8	.036	6.52	.693
3.6	220.	.220	91.0	68.9	.039	6.55	.758
3.9	240.	.240	98.5	74.6	.043	6.57	.817
4.2	260.	.260	106.0	80.2	.046	6.60	.876
4.6	280.	.280	114.0	86.3	.050	6.62	.938
4.9	300.	.300	122.0	92.4	.054	6.65	1.000
5.2	320.	.320	129.5	98.0	.057	6.67	1.058
5.5	340.	.340	137.0	103.7	.061	6.70	1.115
5.8	360.	.360	143.5	108.6	.064	6.72	1.163
6.1	380.	.380	150.0	113.6	.068	6.75	1.211
6.4	400.	.400	157.0	118.8	.071	6.77	1.263
6.7	450.	.450	171.0	129.4	.080	6.84	1.363
7.4	500.	.500	182.0	137.8	.089	6.91	1.436
8.3	550.	.550	189.0	143.1	.098	6.98	1.477

JOB NO. 114008614 DATE 3/11/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-72 SAMPLE NO. 5 DEPTH 8-10 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/calc & fer nod,Stiff,Gray & yellowish gray

Tare No.	IM-11	Height	5.595 in.
Tare plus Wet Specimen	258.66 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	229.58 gm	Initial Area	6.290 sq in.
Water Weight	29.08 gm	Volume	35.194 cu in.
Tare Weight	42.91 gm	Volume of Solids	cu in.
Wet Specimen	1180.34 gm	Void Ratio	
Dry Specimen	1021.25 gm	Saturation	%
Water Content	15.58 %	Dry Density	110.5 lb/cu ft
Specific Gravity of Solids			

LL = 28 PL = 14 PI = 14

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	14.0	10.6	.002	6.30	.121
.3	20.	.020	19.5	14.8	.004	6.31	.168
.5	30.	.030	24.5	18.5	.005	6.32	.211
.7	40.	.040	28.0	21.2	.007	6.34	.241
.9	50.	.050	32.0	24.2	.009	6.35	.275
1.0	60.	.060	35.0	26.5	.011	6.36	.300
1.4	80.	.080	42.0	31.8	.014	6.38	.359
1.7	100.	.100	48.5	36.7	.018	6.40	.413
2.0	120.	.120	55.5	42.0	.021	6.43	.471
2.3	140.	.140	62.0	46.9	.025	6.45	.524
2.7	160.	.160	69.0	52.2	.029	6.48	.581
3.0	180.	.180	76.0	57.5	.032	6.50	.637
3.3	200.	.200	83.0	62.8	.036	6.52	.693
3.6	220.	.220	91.0	68.9	.039	6.55	.758
3.9	240.	.240	98.5	74.6	.043	6.57	.817
4.2	260.	.260	106.0	80.2	.046	6.60	.876
4.6	280.	.280	114.0	86.3	.050	6.62	.938
4.9	300.	.300	122.0	92.4	.054	6.65	1.000
5.2	320.	.320	129.5	98.0	.057	6.67	1.058
5.5	340.	.340	137.0	103.7	.061	6.70	1.115
5.8	360.	.360	143.5	108.6	.064	6.72	1.163
6.1	380.	.380	150.0	113.6	.068	6.75	1.211
6.4	400.	.400	157.0	118.8	.071	6.77	1.263
6.7	450.	.450	171.0	129.4	.080	6.84	1.363
7.4	500.	.500	182.0	137.8	.089	6.91	1.436
8.3	550.	.550	189.0	143.1	.098	6.98	1.477

JOB NO. 114008614 DATE 3/11/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-72 SAMPLE NO. 5 DEPTH 8-10 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/calc & fer nod,Stiff,Gray & yellowish gray

Tare No.	IM-11	Height	5.595 in.
Tare plus Wet Specimen	258.66 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	229.58 gm	Initial Area	6.290 sq in.
Water Weight	29.08 gm	Volume	35.194 cu in.
Tare Weight	42.91 gm	Volume of Solids	cu in.
Wet Specimen	1180.34 gm	Void Ratio	
Dry Specimen	1021.25 gm	Saturation	%
Water Content	15.58 %	Dry Density	110.5 lb/cu ft
Specific Gravity of Solids			

LL = 28 PL = 14 PI = 14

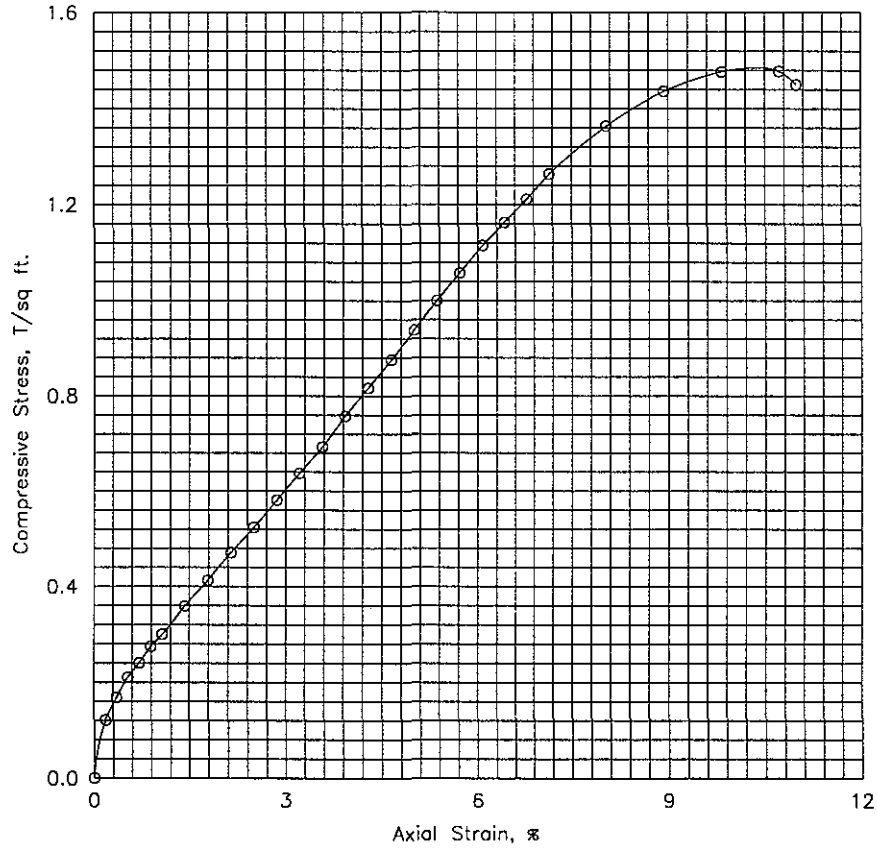
Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

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	14.0	10.6	.002	6.30	.121
.3	20.	.020	19.5	14.8	.004	6.31	.168
.5	30.	.030	24.5	18.5	.005	6.32	.211
.7	40.	.040	28.0	21.2	.007	6.34	.241
.9	50.	.050	32.0	24.2	.009	6.35	.275
1.0	60.	.060	35.0	26.5	.011	6.36	.300
1.4	80.	.080	42.0	31.8	.014	6.38	.359
1.7	100.	.100	48.5	36.7	.018	6.40	.413
2.0	120.	.120	55.5	42.0	.021	6.43	.471
2.3	140.	.140	62.0	46.9	.025	6.45	.524
2.7	160.	.160	69.0	52.2	.029	6.48	.581
3.0	180.	.180	76.0	57.5	.032	6.50	.637
3.3	200.	.200	83.0	62.8	.036	6.52	.693
3.6	220.	.220	91.0	68.9	.039	6.55	.758
3.9	240.	.240	98.5	74.6	.043	6.57	.817
4.2	260.	.260	106.0	80.2	.046	6.60	.876
4.6	280.	.280	114.0	86.3	.050	6.62	.938
4.9	300.	.300	122.0	92.4	.054	6.65	1.000
5.2	320.	.320	129.5	98.0	.057	6.67	1.058
5.5	340.	.340	137.0	103.7	.061	6.70	1.115
5.8	360.	.360	143.5	108.6	.064	6.72	1.163
6.1	380.	.380	150.0	113.6	.068	6.75	1.211
6.4	400.	.400	157.0	118.8	.071	6.77	1.263
6.7	450.	.450	171.0	129.4	.080	6.84	1.363
7.4	500.	.500	182.0	137.8	.089	6.91	1.436
8.3	550.	.550	189.0	143.1	.098	6.98	1.477

9.1	600.	.600	191.0	144.6	.107	7.05	1.478
9.4	615.	.615	188.0	142.3	.110	7.07	1.450

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	15.6 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	110.5			
Time to failure, min		t_f	9.13			
Unconfined compressive strength, T/sq ft		q_u	1.48			
Undrained shear strength, T/sq ft		S_u	.74			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,w/calc & fer nod,Stiff,Gray & yellowish gray

LL	28	PL	14	PI	14	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-72 | Sample No. 5

Depth El 8-10 ft | Date 3/11/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/11/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-72 SAMPLE NO. 10 DEPTH 18-20 ft

SPECIMEN NO. 1

CLASSIFICATION
Clay,w/calc & fer stains,slks,Hard,Gray & Brown

Tare No.	W24	Height	5.595 in.
Tare plus Wet Specimen	299.33 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	253.02 gm	Initial Area	6.290 sq in.
Water Weight	46.31 gm	Volume	35.194 cu in.
Tare Weight	42.80 gm	Volume of Solids	cu in.
Wet Specimen	1082.24 gm	Void Ratio	
Dry Specimen	886.87 gm	Saturation	%
Water Content	22.03 %	Dry Density	96.0 lb/cu ft
Specific Gravity of Solids			

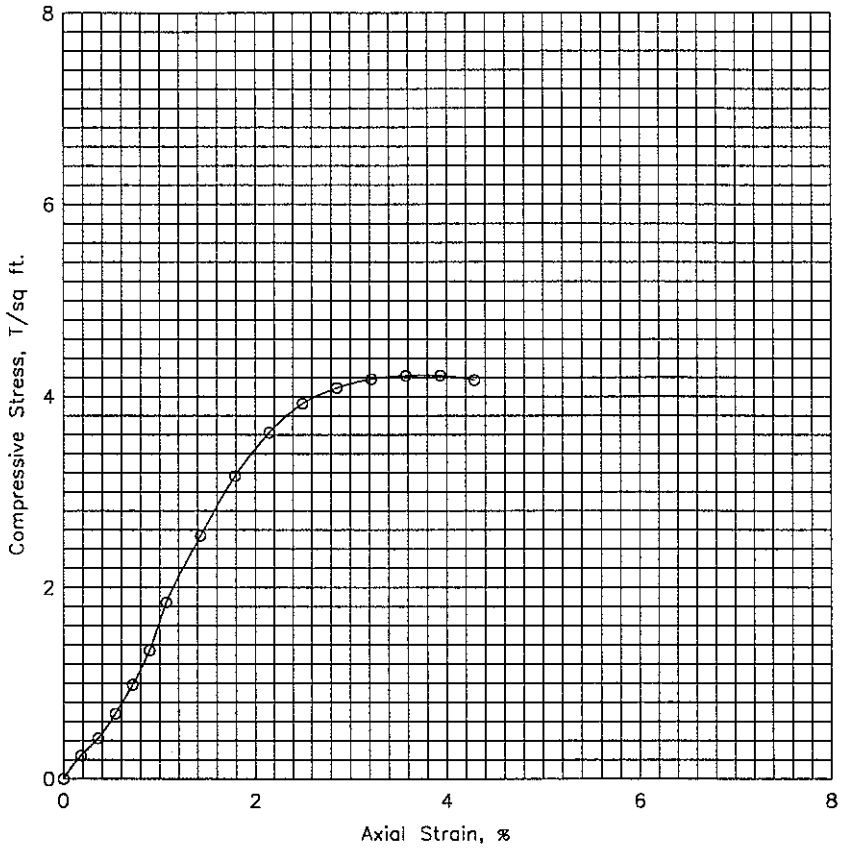
LL = 62 PL = 23 PI = 39

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	28.0	21.2	.002	6.30	.242
.3	20.	.020	49.0	37.1	.004	6.31	.423
.5	30.	.030	79.0	59.8	.005	6.32	.681
.7	40.	.040	114.0	86.3	.007	6.34	.981
.9	50.	.050	156.0	118.1	.009	6.35	1.340
1.0	60.	.060	215.0	162.8	.011	6.36	1.843
1.4	80.	.080	297.0	224.8	.014	6.38	2.537
1.7	100.	.100	372.0	281.6	.018	6.40	3.166
2.0	120.	.120	427.0	323.2	.021	6.43	3.621
2.3	140.	.140	465.0	352.0	.025	6.45	3.928
2.7	160.	.160	486.0	367.9	.029	6.48	4.091
3.0	180.	.180	499.0	377.7	.032	6.50	4.185
3.3	200.	.200	505.0	382.3	.036	6.52	4.219
3.6	220.	.220	507.0	383.8	.039	6.55	4.220
3.9	240.	.240	503.0	380.8	.043	6.57	4.172

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	22.0 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	96.0			
Time to failure, min		t_f	3.60			
Unconfined compressive strength, T/sq ft		q_u	4.22			
Undrained shear strength, T/sq ft		S_u	2.11			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Clay,w/calc & fer stains,silks,Hard,Gray & Brown

LL	62	PL	23	PI	39	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-72 | Sample No. 10

Depth El 18-20 ft | Date 3/11/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/11/98

OJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-72 SAMPLE NO. 15 DEPTH 28-30 ft

SPECIMEN NO. 1

CLASSIFICATION
Clay,slks,Hard,Red & Gray

Tare No.	IB10	Height	5.595 in.
Tare plus Wet Specimen	246.71 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	203.52 gm	Initial Area	6.290 sq in.
Water Weight	43.19 gm	Volume	35.194 cu in.
Tare Weight	43.63 gm	Volume of Solids	cu in.
Wet Specimen	1095.98 gm	Void Ratio	
Dry Specimen	862.89 gm	Saturation	%
Water Content	27.01 %	Dry Density	93.4 lb/cu ft
Specific Gravity of Solids			

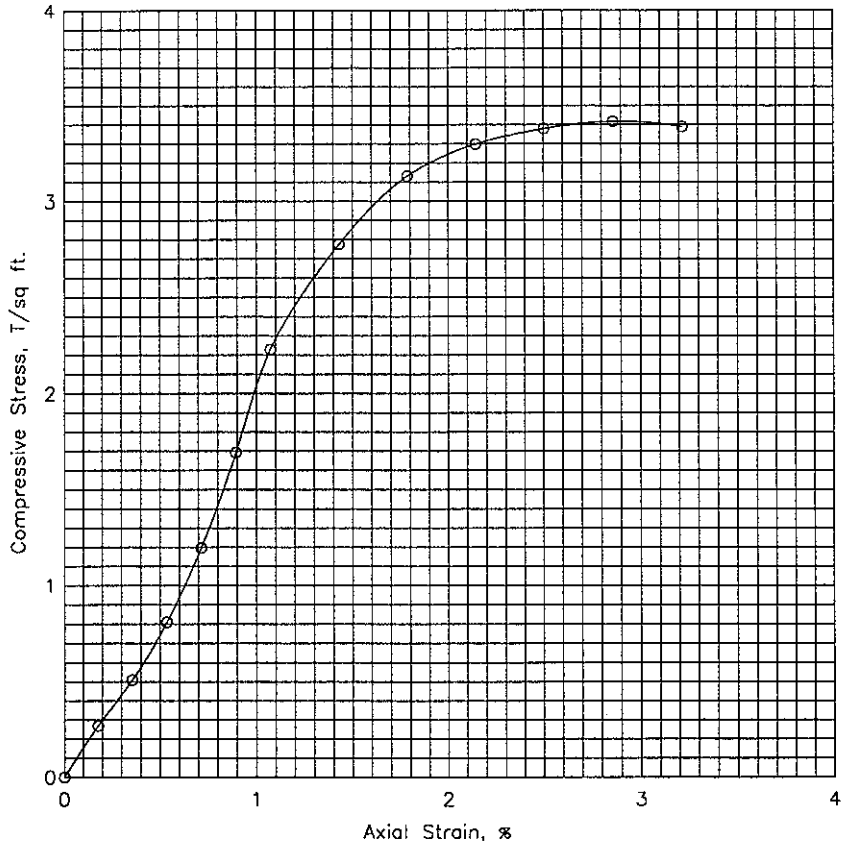
LL = 64 PL = 23 PI = 41

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	31.0	23.5	.002	6.30	.268
.4	20.	.020	59.0	44.7	.004	6.31	.509
.5	30.	.030	94.0	71.2	.005	6.32	.810
.7	40.	.040	139.0	105.2	.007	6.34	1.196
.9	50.	.050	197.0	149.1	.009	6.35	1.692
1.1	60.	.060	260.0	196.8	.011	6.36	2.229
1.4	80.	.080	325.0	246.0	.014	6.38	2.776
1.7	100.	.100	368.0	278.6	.018	6.40	3.132
2.0	120.	.120	389.0	294.5	.021	6.43	3.298
2.3	140.	.140	400.0	302.8	.025	6.45	3.379
2.6	160.	.160	406.0	307.3	.029	6.48	3.417
2.9	180.	.180	404.0	305.8	.032	6.50	3.388

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	27.0 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	93.4			
Time to failure, min		t_f	2.62			
Unconfined compressive strength, T/sq ft		q_u	3.42			
Undrained shear strength, T/sq ft		S_u	1.71			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Clay,silks,Hard,Red & Gray

LL	64	PL	23	PI	41	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-72 | Sample No. 15

Depth El 28-30 ft | Date 3/11/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/11/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-72 SAMPLE NO. 23 DEPTH 44-46 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/calc nod,Hard,Yellowish gray

Tare No.	HP39	Height	5.595 in.
Tare plus Wet Specimen	237.53 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	207.45 gm	Initial Area	6.290 sq in.
Water Weight	30.08 gm	Volume	35.194 cu in.
Tare Weight	43.13 gm	Volume of Solids	cu in.
Wet Specimen	1189.43 gm	Void Ratio	
Dry Specimen	1005.39 gm	Saturation	%
Water Content	18.31 %	Dry Density	108.8 lb/cu ft

Specific Gravity of Solids
LL = 33 PL = 17 PI = 16

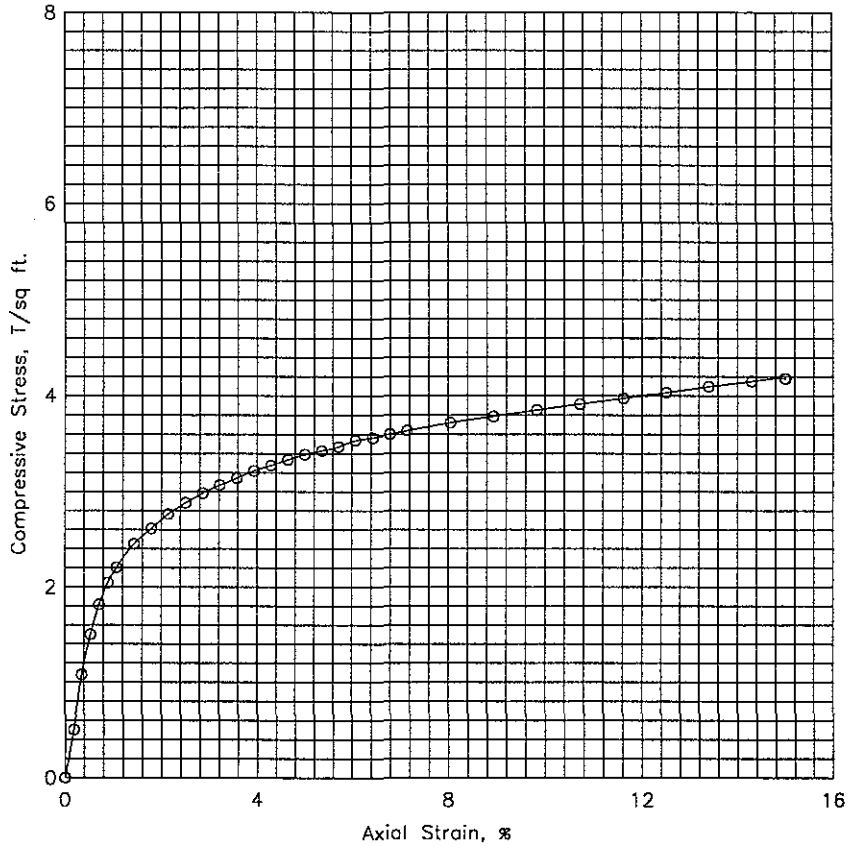
Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

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	58.0	43.9	.002	6.30	.502
.4	20.	.020	125.0	94.6	.004	6.31	1.079
.5	30.	.030	174.0	131.7	.005	6.32	1.500
.7	40.	.040	211.0	159.7	.007	6.34	1.815
.9	50.	.050	238.0	180.2	.009	6.35	2.044
1.1	60.	.060	257.0	194.5	.011	6.36	2.203
1.4	80.	.080	287.0	217.3	.014	6.38	2.451
1.7	100.	.100	307.0	232.4	.018	6.40	2.613
2.0	120.	.120	326.0	246.8	.021	6.43	2.764
2.3	140.	.140	341.0	258.1	.025	6.45	2.881
2.6	160.	.160	354.5	268.4	.029	6.48	2.984
2.9	180.	.180	366.0	277.1	.032	6.50	3.069
3.3	200.	.200	376.0	284.6	.036	6.52	3.142
3.4	220.	.220	387.0	293.0	.039	6.55	3.221
3.7	240.	.240	395.0	299.0	.043	6.57	3.276
4.0	260.	.260	404.0	305.8	.046	6.60	3.338
4.3	280.	.280	412.0	311.9	.050	6.62	3.391
4.7	300.	.300	418.5	316.8	.054	6.65	3.432
5.0	320.	.320	425.0	321.7	.057	6.67	3.472
5.3	340.	.340	435.0	329.3	.061	6.70	3.540
5.6	360.	.360	440.0	333.1	.064	6.72	3.567
5.9	380.	.380	446.0	337.6	.068	6.75	3.602
6.2	400.	.400	452.0	342.2	.071	6.77	3.637
6.9	450.	.450	467.0	353.5	.080	6.84	3.721
7.7	500.	.500	480.0	363.4	.089	6.91	3.787
8.3	550.	.550	493.0	373.2	.098	6.98	3.852

9.0	600.	.600	506.0	383.0	.107	7.05	3.914
9.7	650.	.650	519.0	392.9	.116	7.12	3.975
10.4	700.	.700	532.0	402.7	.125	7.19	4.033
11.1	750.	.750	546.0	413.3	.134	7.26	4.097
11.9	800.	.800	559.0	423.2	.143	7.34	4.151
12.6	839.	.839	567.5	429.6	.150	7.40	4.180
12.6	840.	.840	567.5	429.6	.150	7.40	4.179

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	18.3 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	108.8			
Time to failure, min		t_f	12.60			
Unconfined compressive strength, T/sq ft		q_u	4.18			
Undrained shear strength, T/sq ft		S_u	2.09			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,w/calc nod,Hard,Yellowish gray

LL	33	PL	17	PI	16	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-72 | Sample No. 23

Depth 44-46 ft | Date 3/11/98
El

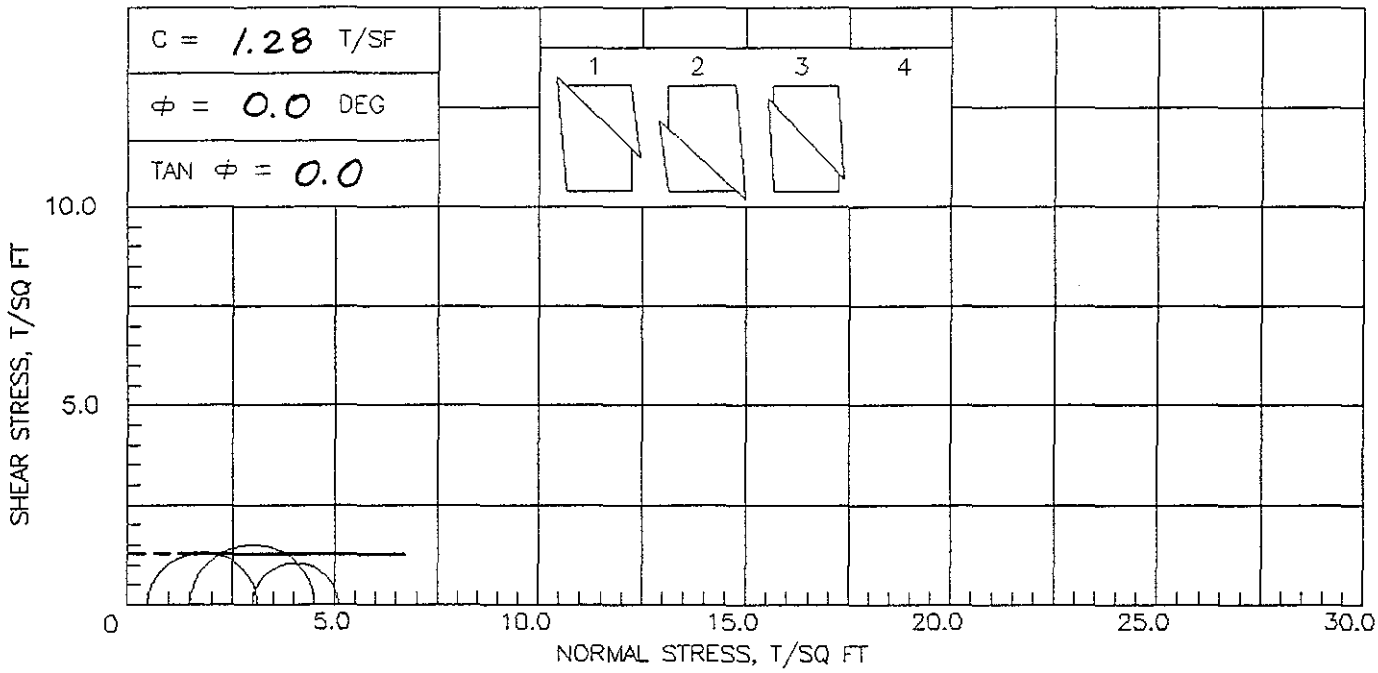
UNCONFINED COMPRESSION TEST REPORT

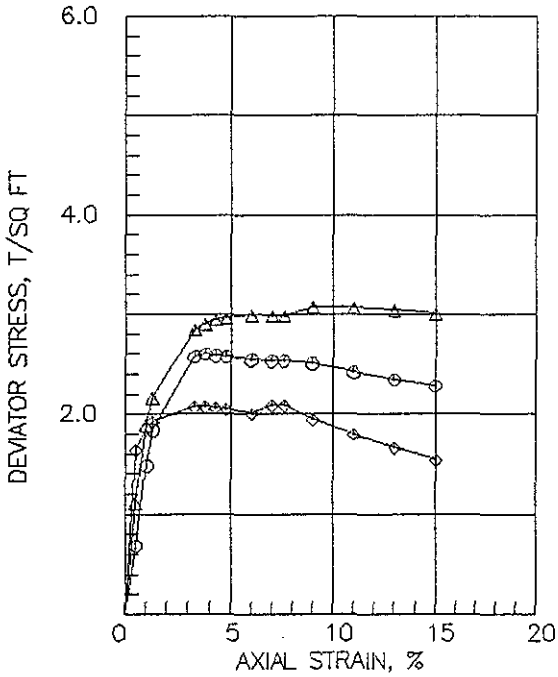
ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE





SPECIMEN NO.		⊙ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	19.0	20.7	19.9	
	DRY DENSITY, PCF	108.7	108.0	110.8	
	SATURATION, %	93.2	99.6	100+	
	VOID RATIO	.550	.561	.522	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESSURE, TSF				
CHAMBER PRESSURE, TSF		.50	1.50	3.00	
MAX. DEV. STRESS, TSF		2.61	3.00	2.08	
TIME TO FAILURE, MIN.		9	28	13	
STRAIN RATE INCR., %			7	6	
INITIAL DIAMETER, IN.		1.44	1.41	1.40	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED–STRAIN TEST

DESCRIPTION OF SPECIMENS: ***SANDY*** CLAY (CH), REDDISH BROWN; IRON OXIDE PARTICLES

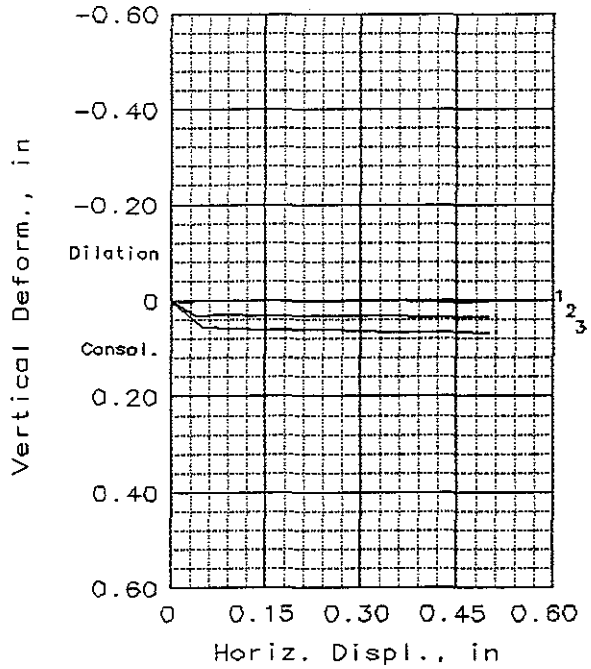
LL 50	PL 18	PI 32	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

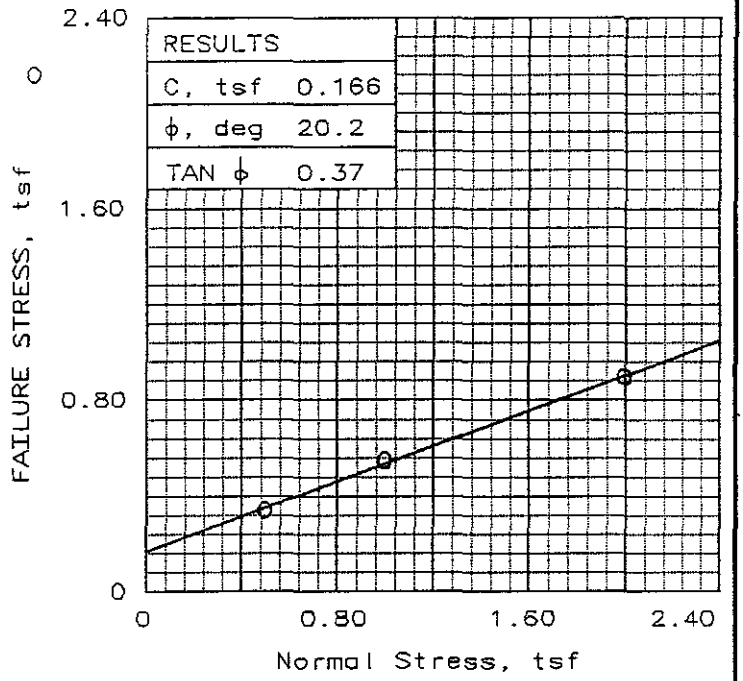
REMARKS:	PROJECT GREENS BAYOU	
	BORING NO. 97–72	SAMPLE NO. 8
	DEPTH/ELEV 14–16	TECH. US
	LABORATORY USAE WES – STF/GL	DATE 01 APR 98
	TRIAXIAL COMPRESSION TEST REPORT	

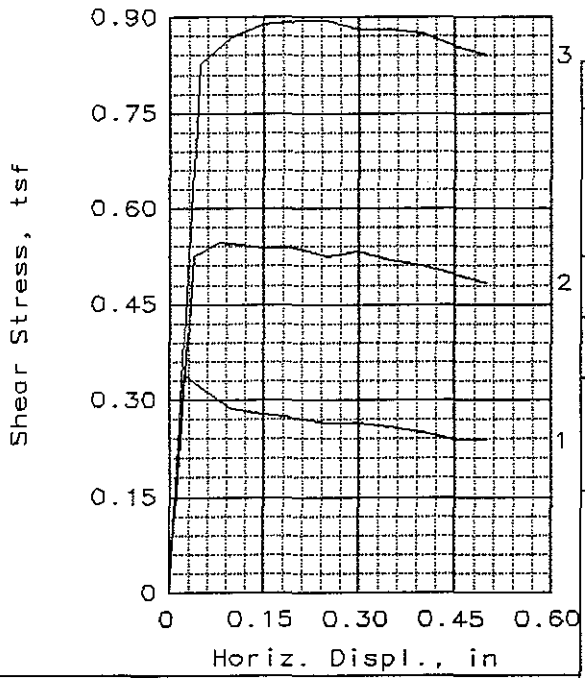
ENCL 2

DEPARTMENT OF THE ARMY, WATERWAYS EXPERIMENT :ON - VICKSBURG, MISSISSIPPI

Regulation No. Work Order No. 0998







SAMPLE NO.:		1	2	3
INITIAL	WATER CONTENT, %	14.8	14.8	15.7
	VOID RATIO	0.461	0.488	0.476
	SATURATION, %	86.8	82.1	89.1
	DRY DENSITY, pcf	115.3	113.3	114.2
VOID RATIO AFTER CONSOLIDATION		0.4533	0.4526	0.4037
TIME FOR 50% CONSOLIDATION		0	0	0
FINAL	WATER CONTENT, %	17.8	17.3	16.2
	VOID RATIO	0.448	0.407	0.311
	SATURATION, %	107.0	114.8	140.7
NORMAL STRESS, tsf		0.500	1.000	2.000
FAILURE STRESS, tsf		0.340	0.546	0.895
ACTUAL TIME TO FAILURE, MIN		145	470	1230
RATE OF STRAIN, in/MIN		0.000	0.000	0.000
ULTIMATE STRESS, tsf				

CONTROLLED STRAIN

TYPE OF SPECIMEN UNDISTURBED | 2.500 in DIA. | 1.097 in THICK

DESCRIPTION SANDY CLAY (CL), GRAY

LL= 31 | PL= 14 | PI= 17 | Gs= 2.7

REMARKS
DRILLERS LOG
STIFF
CL
PP=1.75

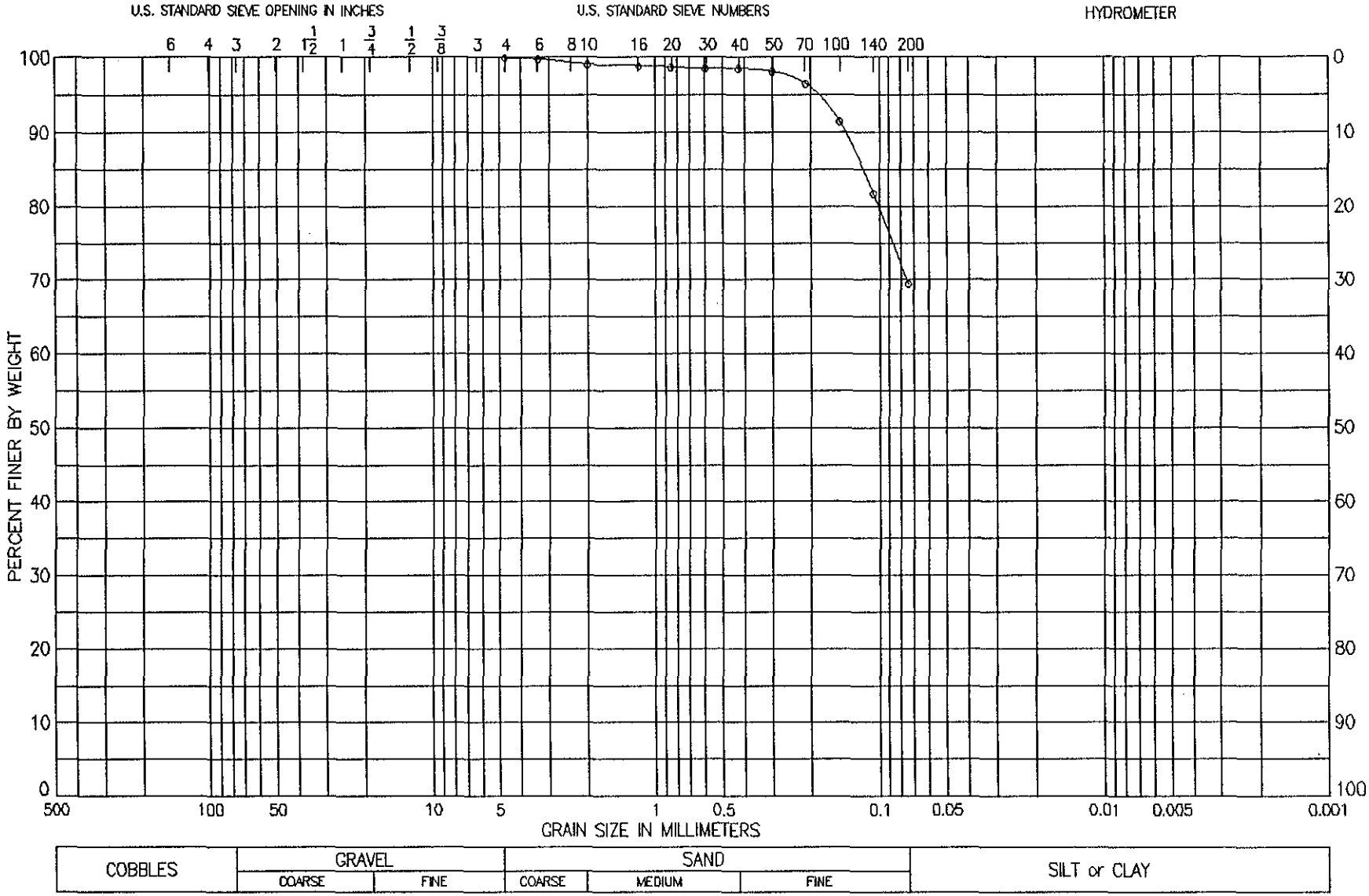
PROJECT GREENS BAYOU

AREA

BORING NO. 97-72 SAMPLE NO. 4

DEPTH/ELEV 6-8 DATE: 15 APR 98

DIRECT SHEAR TEST REPORT



LL	PL	PI	GS	NAT W,%	ORG,%
31	14	17			

CLASSIFICATION
SANDY CLAY (CL), GRAY

PROJECT GREENS BAYOU

BORING NO. 97-72 SAMPLE NO. 4

DEPTH/ELEV 6-8 DATE 30 APR 98

GRADATION CURVE

LABORATORY USAE WES – STF/GL

SIEVE ANALYSIS

PROJECT: GREENS BAYOU

BORING: 97-72 SAMPLE: 4 DF: PR0998 .DAT
DEPTH: 6-8 DATE: 30 APR 98

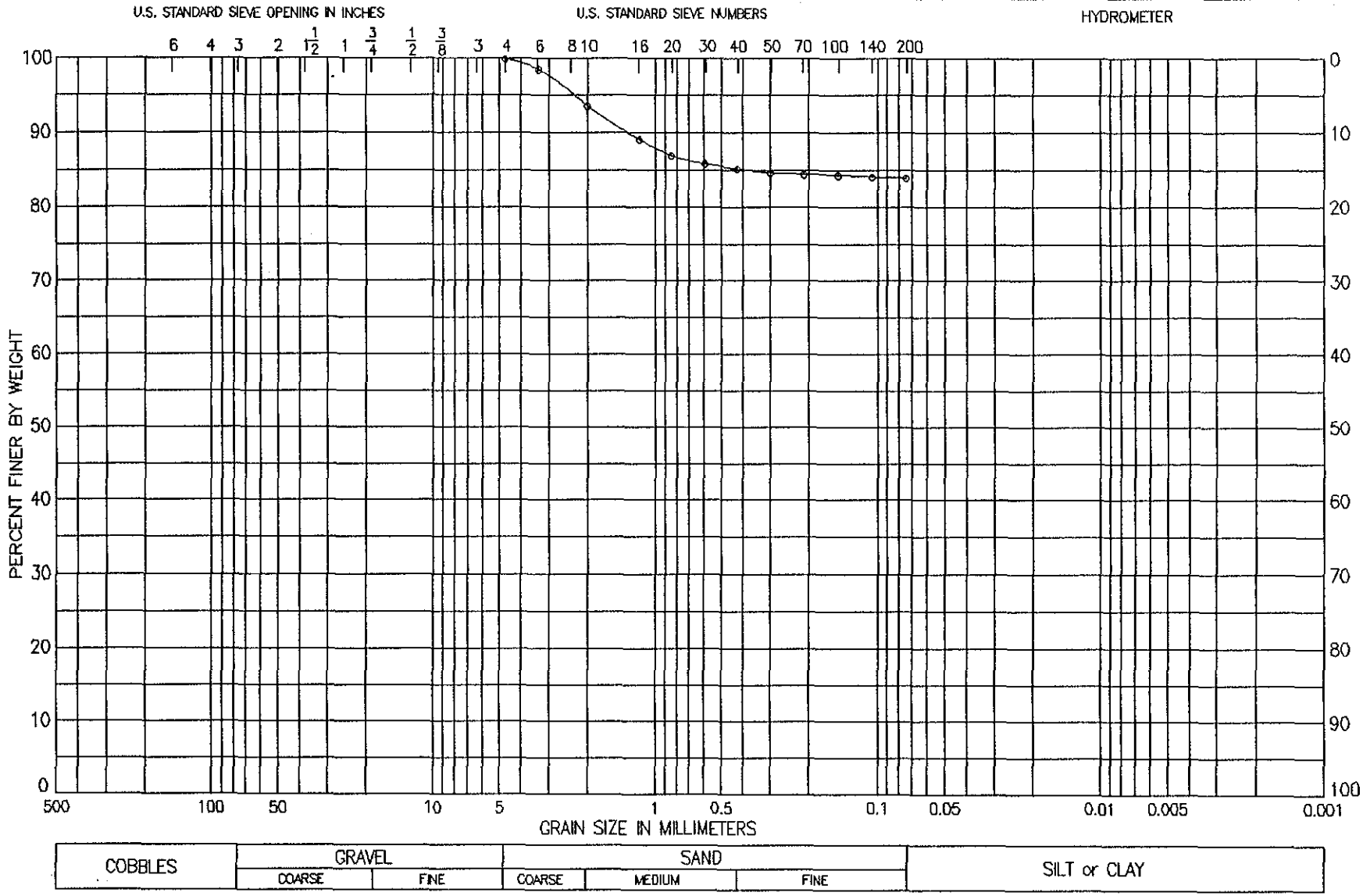
LL: 31 PL: 14 PI: 17 GS: .00 WC: .00
CLASSIFICATION: 108
SANDY CLAY (CL), GRAY

TOTAL WEIGHT OF SAMPLE: .0 gms.
PARTIAL WEIGHT AFTER SPLIT: 55.4 gms.

WEIGHTS gm.	SIEVE SIZE or NUMBER	OPENING mm	PERCENT FINER	PERCENT COARSER
.0	No 4	4.750	100.0	.0
.1	No 6	3.350	99.8	.2
.5	No 10	2.000	99.1	.9
.6	No 16	1.180	98.9	1.1
.7	No 20	.850	98.7	1.3
.8	No 30	.600	98.6	1.4
.8	No 40	.425	98.6	1.4
1.0	No 50	.300	98.2	1.8
1.9	No 70	.212	96.6	3.4
4.7	No 100	.150	91.5	8.5
10.1	No 140	.106	81.8	18.2
16.9	No 200	.075	69.5	30.5

PERCENT GRAVEL = .0
PERCENT SAND = 30.5
PERCENT FINES = 69.5

EDE



LL	PL	PI	GS	NAT W,%	ORG,%
50	18	32			

CLASSIFICATION
SANDY CLAY (CH), BROWN

PROJECT GREENS BAYOU

BORING NO. 97-72 SAMPLE NO. 8

DEPTH/ELEV 14-16 DATE 28 APR 98

GRADATION CURVE

LABORATORY USAE WES – STF/GL

SIEVE ANALYSIS

ROJECT: GREENS BAYOU

BORING: 97-72 SAMPLE: 8 DF: PR0998 .DAT
DEPTH: 14-16 DATE: 28 APR 98

LL: 50 PL: 18 PI: 32 GS: .00 WC: .00
CLASSIFICATION: 118
SANDY CLAY (CH), BROWN

TOTAL WEIGHT OF SAMPLE: .0 gms.
PARTIAL WEIGHT AFTER SPLIT: 56.1 gms.

WEIGHTS gm.	SIEVE SIZE or NUMBER	OPENING mm	PERCENT FINER	PERCENT COARSER
.0	No 4	4.750	100.0	.0
.8	No 6	3.350	98.6	1.4
3.6	No 10	2.000	93.6	6.4
6.1	No 16	1.180	89.1	10.9
7.3	No 20	.850	87.0	13.0
7.9	No 30	.600	85.9	14.1
8.3	No 40	.425	85.2	14.8
8.6	No 50	.300	84.7	15.3
8.7	No 70	.212	84.5	15.5
8.8	No 100	.150	84.3	15.7
8.9	No 140	.106	84.1	15.9
9.0	No 200	.075	84.0	16.0

PERCENT GRAVEL = .0
PERCENT SAND = 16.0
PERCENT FINES = 84.0

EDE