

Exhibit C

Laboratory Testing Results

MOISTURE CONTENT

ASTM D 2216 (SOP-S1)

Client	BLASLAND, BOUCK & LEE
Client Reference	GE PROCESSING FACILITY 20430
Project No.	2005-329-06

Lab ID	01	02
Boring No.	GT-106	GT-207
Depth (ft)	32.2-32.6	25.8-26.0
Sample No.	ST-1	NA
Tare Number	707	D-7
Wt. of Tare & WS (gm)	501.71	147.20
Wt. of Tare & DS (gm)	350.35	110.35
Wt. of Tare (gm)	99.45	42.25
Wt. of Water (gm)	151.36	36.85
Wt. of DS (gm)	250.9	68.1
Water Content (%)	60.3	54.1

Notes : NA

Tested By	JCM	Date	12/23/05	Checked By	<i>JMB</i>	Date	12-29-05
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page 1 of 1 DCN: CT-S1 DATE 6-30-98 REVISION: 2 C:\MSOFFICE\Excel\PrintQ[R156.xls]Sheet1

MOISTURE CONTENT
ASTM D 2216 (SOP-S1)

Client **BLASHAND, BOUK & LEE**
 Client Reference **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**

Lab ID	01	02	03	04	05
Boring No.	GT-113	GT-108	GT-112	GT-112	GT-203
Depth (ft)	NA	NA	2-4	6-8	4-6
Sample No.	BULK 1	BULK 2	NA	NA	NA
Tare Number	609	630	455	601	585
Wt. of Tare & WS (gm)	419.00	498.90	135.87	142.56	226.36
Wt. of Tare & DS (gm)	360.84	426.00	121.62	114.88	207.70
Wt. of Tare (gm)	82.24	82.43	6.73	85.98	85.74
Wt. of Water (gm)	58.16	72.9	14.25	27.68	18.66
Wt. of DS (gm)	278.6	343.57	114.89	28.9	121.96
Water Content (%)	20.9	21.2	12.4	95.8	15.3

Lab ID	06	07	08	09	10
Boring No.	GT-206	GT-207	GT-209	GT-209	GT-218
Depth (ft)	10-12	2-4	2-4	10-12	4-6
Sample No.	NA	NA	NA	NA	NA
Tare Number	442	432	516	467	448
Wt. of Tare & WS (gm)	122.80	185.23	158.04	169.86	161.45
Wt. of Tare & DS (gm)	100.89	177.95	147.12	139.34	144.05
Wt. of Tare (gm)	8.31	8.33	8.16	6.74	6.75
Wt. of Water (gm)	21.91	7.28	10.92	30.52	17.4
Wt. of DS (gm)	92.58	169.62	138.96	132.6	137.3
Water Content (%)	23.7	4.3	7.9	23.0	12.7

Notes : NA

Tested By RCMD Date 9/28/05 Checked By YKB Date 10-18-05
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MOISTURE CONTENT
ASTM D 2216 (SOP-S1)

Client BLASLAND, BOUCK AND LEE
 Client Reference GE Processing Facility 20430.011
 Project No. 2005-329-02

Lab ID	01	02
Boring No.	10/5/05	10/5/05
Depth (ft)	NA	NA
Sample No.	GT-214	GT-217
Tare Number	565	560
Wt. of Tare & WS (gm)	485.40	486.10
Wt. of Tare & DS (gm)	433.67	441.71
Wt. of Tare (gm)	82.90	82.70
Wt. of Water (gm)	51.73	44.39
Wt. of DS (gm)	350.77	359.01
Water Content (%)	14.7	12.4

Notes : NA

Tested By MB Date 10/10/05 Checked By *MB* Date 10-11-05

page 1 of 1 DCN: CT-S1 DATE 6-30-98 REVISION: 2 C:\MSOFFICE\Excel\PrintQ\N105.xls\Sheet1

UNCONFINED COMPRESSIVE STRENGTH TEST RESULTS
ASTM D 2938-95

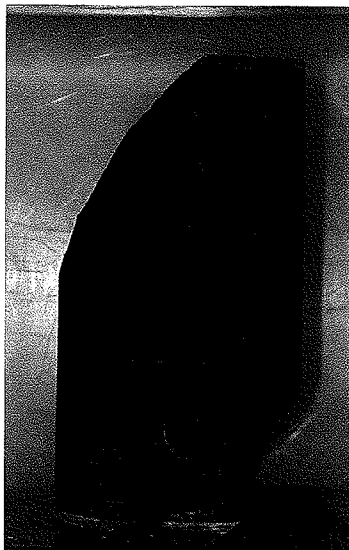
CLIENT: Blasland, Bouck, & Lee, Inc.
 CLIENT PROJ: GE Processing Facility 20430.011
 PROJECT NO.: 2005-329-03
 LAB ID NO.: 2005-329-03-01

BORING I.D.: GT-098
 DEPTH(ft): 4.5-9.0
 SAMPLE ID: 1

DESCRIPTION: 2" ROCK CORE	<u>SPECIMEN DIAMETER(in.):</u>	
	READING 1:	1.98
	READING 2:	1.99
	AVERAGE:	1.99
	AREA(in ²):	3.10
	L/D:	2.04
<u>SPECIMEN LENGTH (in.)</u> BEFORE CAPPING		
READING 1:	4.02	
READING 2:	4.03	
READING 3:	4.03	
AVERAGE:	4.03	
<u>SPECIMEN LENGTH (in.)</u> AFTER CAPPING		
READING 1:	4.05	
READING 2:	4.05	
READING 3:	4.07	
AVERAGE:	4.06	
	TOTAL LOAD(lbs)	20,085
	COMPRESSIVE STRENGTH (PSI):	6,480
	FRACTURE TYPE:	Shear
	RATE OF LOADING(lbs/sec):	230
	TIME TO BREAK(min:sec:100 th):	05:55.0
	DEVIATION FROM STRAIGHTNESS ⁴ :	
	AXIAL:	Pass
	TOP:	Pass
	BOTTOM:	Pass

NOTES:

- 2) Moisture conditions at time of test are as received.
- 3) Specimens capped with cement/plaster paste.
- 4) Deviation from straightness, Procedure A of ASTM D 4543.
 Pass/Fail criteria: gap < 0.02 = Pass, gap > 0.02 = Fail



NOTE:

Tested By: JAC Date: 10/20/05 Checked By: DDA Date: 10-24-05

SHELBY TUBE UNIT WEIGHT

(SOP - S37)

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-100
Client Reference	GE Processing Facility 20430.014	Depth Pushed(ft)	12.0-14.0
Project No.	2005-329-04	Shelby Tube No.	ST-1
Lab ID	2005-329-04-01	Recovery(ft)	2

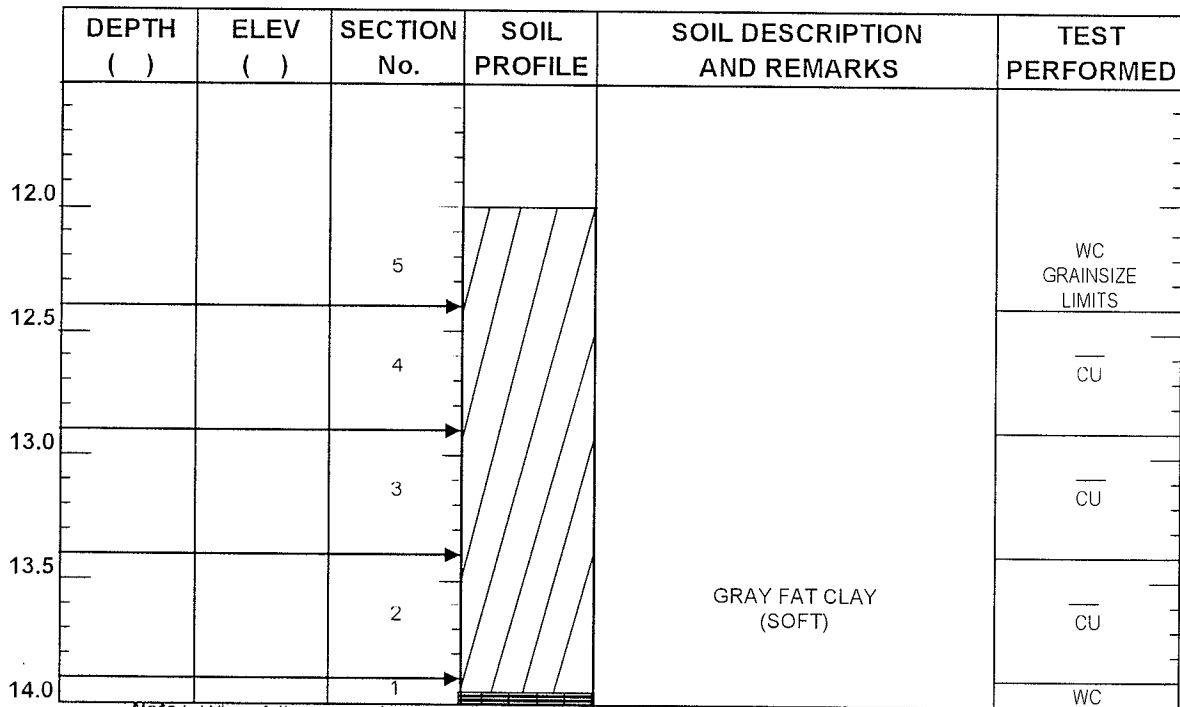
MOISTURE CONTENT

Section Number	1	2	3	4	5
Tare Number	1122				979
Wt. Tare & WS(gm.)	170.60				440.61
Wt. Tare & DS(gm.)	134.36				297.90
Wt. Tare(gm.)	84.36				103.45
Moisture Content(%)	72.48				73.39

UNIT WEIGHT

Wt. Tube & WS.(gms.)	1471.86	1438.22	1428.90
Wt. Of Tube(gms.)	419.39	415.94	411.65
Wt. Of WS.(gms.)	1052.47	1022.28	1017.25
Length 1 (in.)	5.849	5.893	5.848
Length 2 (in.)	5.873	5.913	5.860
Length 3 (in.)	5.871	5.897	5.863
Top Diameter (in.)	2.894	2.892	2.897
Middle Diameter (in.)	2.897	2.896	2.896
Bottom Diameter (in.)	2.895	2.896	2.892
Sample Volume (cc)	632.71	636.38	631.78
Moisture Content(%)	72.48	72.48	73.39
Unit Wet Wt.(gms/cc)	1.66	1.61	1.61
Unit Wet Wt.(pcf.)	103.8	100.2	100.5
Unit Dry Wt.(gms/cc)	0.96	0.93	0.93
Unit Dry Wt.(pcf.)	60.2	58.1	57.9

SOIL PROFILE AND SAMPLING



*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow.
 Indicate dividing line between soil types with a solid line.
 Indicate wax by cross-hatching. Indicate soil types by standard symbols.*

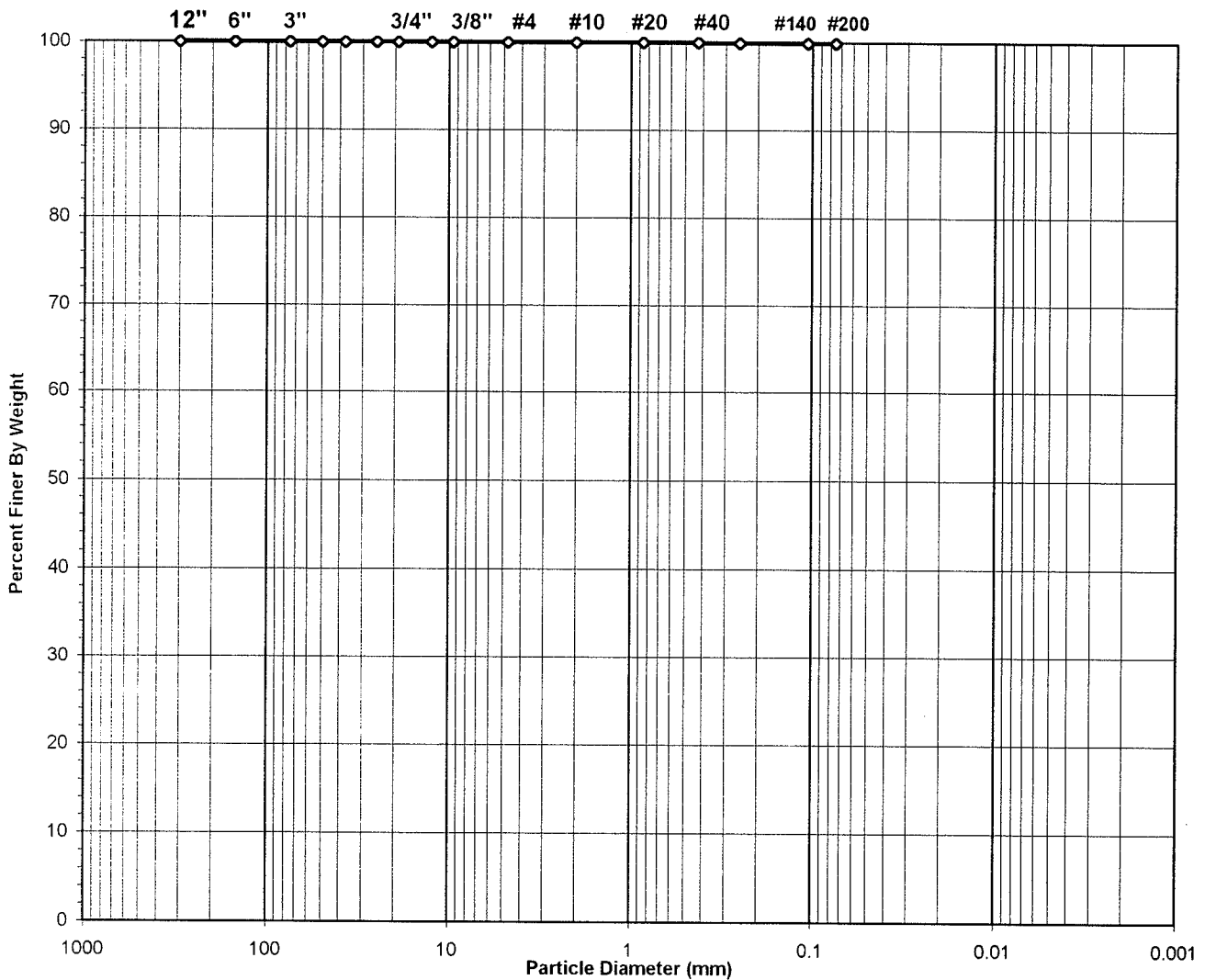
Tested By JCM Date 11/15/05 Checked By YJR Date 11-29-05



SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-100
Client Reference	GE Processing Facility 20430.014	Depth (ft)	12.0-12.4
Project No.	2005-329-04	Sample No.	ST-1
Lab ID	2005-329-04-01	Soil Color	GRAY

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **CH, TESTED**

USCS Classification **FAT CLAY**

Tested By MB Date 11/17/05 Checked By *MB* Date 11-21-05



WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-100
Client Reference	GE Processing Facility 20430.014	Depth (ft)	12.0-12.4
Project No.	2005-329-04	Sample No.	ST-1
Lab ID	2005-329-04-01	Soil Color	GRAY

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	979	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	440.61	Wgt. Tare + Wet Specimen (gm)	NA
Wgt. Tare + Dry Specimen (gm)	297.90	Wgt. Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	103.45	Weight of Tare (gm)	NA
Weight of Water (gm)	142.71	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	194.45	Weight of Dry Soil (gm)	NA
Moisture Content (%)	73.4	Moisture Content (%)	NA

Wet Weight - 3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	194.45
Dry Weight - 3/4" Sample (gm)	0.1	Weight of minus #200 material (gm)	194.35
Wet Weight + 3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	0.10
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.00	0.00	100.00	100.00
6"	150	0.00	0.00	0.00	100.00	100.00
3"	75	0.00	0.00	0.00	100.00	100.00
2"	50	0.00	0.00	0.00	100.00	100.00
1 1/2"	37.5	0.00	0.00	0.00	100.00	100.00
1"	25.0	0.00	0.00	0.00	100.00	100.00
3/4"	19.0	0.00	0.00	0.00	100.00	100.00
1/2"	12.50	0.00	0.00	0.00	100.00	100.00
3/8"	9.50	0.00	0.00	0.00	100.00	100.00
#4	4.75	0.00	0.00	0.00	100.00	100.00
#10	2.00	0.00	0.00	0.00	100.00	100.00
#20	0.850	0.04	0.02	0.02	99.98	99.98
#40	0.425	0.01	0.01	0.03	99.97	99.97
#60	0.250	0.02	0.01	0.04	99.96	99.96
#140	0.106	0.01	0.01	0.04	99.96	99.96
#200	0.075	0.02	0.01	0.05	99.95	99.95
Pan	-	194.35	99.95	100.00	-	-

Tested By MB Date 11/17/05 Checked By *MB* Date 11-21-05

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-100
Client Reference	GE Processing Facility 20430.014	Depth (ft)	12.0-12.4
Project No.	2005-329-04	Sample No.	ST-1
Lab ID	2005-329-04-01	Soil Description	GRAY FAT CLAY (Minus No. 40 sieve material, Airdried)

Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description.

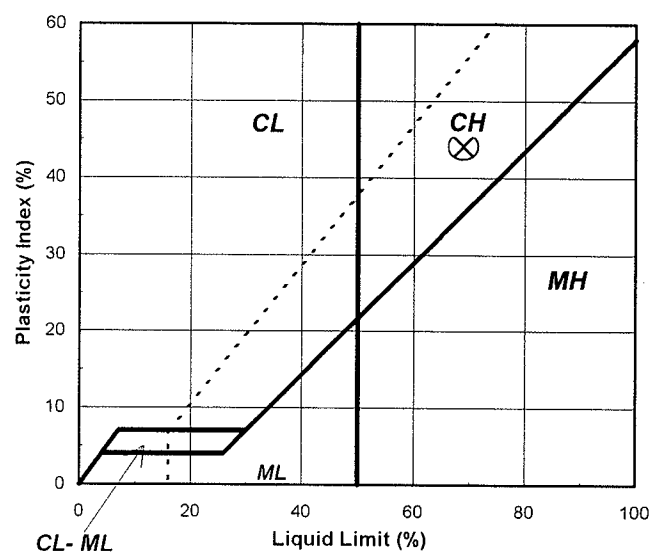
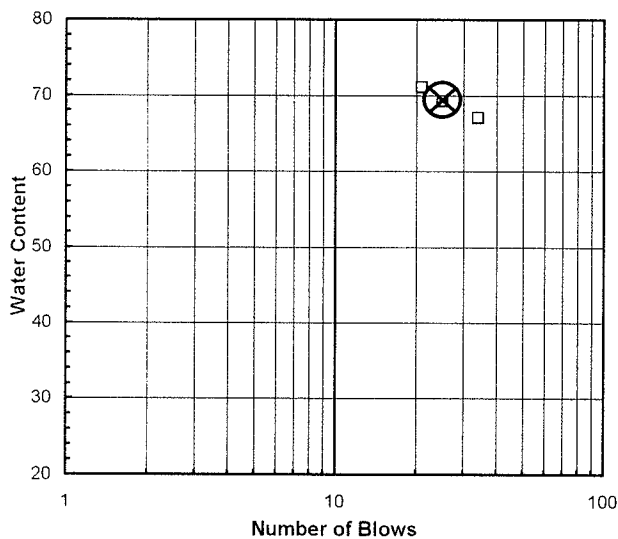
Liquid Limit Test	1	2	3	
Tare Number	26	43	34	M
Wt. of Tare & WS (gm)	38.98	44.33	47.16	U
Wt. of Tare & DS (gm)	30.52	33.98	35.43	L
Wt. of Tare (gm)	17.90	19.02	18.93	T
Wt. of Water (gm)	8.5	10.4	11.7	I
Wt. of DS (gm)	12.6	15.0	16.5	P
				O
				I
Moisture Content (%)	67.0	69.2	71.1	N
Number of Blows	34	25	21	T

Plastic Limit Test	1	2	Range	Test Results	
Tare Number	36	27		Liquid Limit (%)	69
Wt. of Tare & WS (gm)	26.03	26.85		Plastic Limit (%)	25
Wt. of Tare & DS (gm)	24.75	25.57		Plasticity Index (%)	44
Wt. of Tare (gm)	19.62	20.50		USCS Symbol	CH
Wt. of Water (gm)	1.3	1.3			
Wt. of DS (gm)	5.1	5.1			
Moisture Content (%)	25.0	25.2	-0.3		

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve

Plasticity Chart



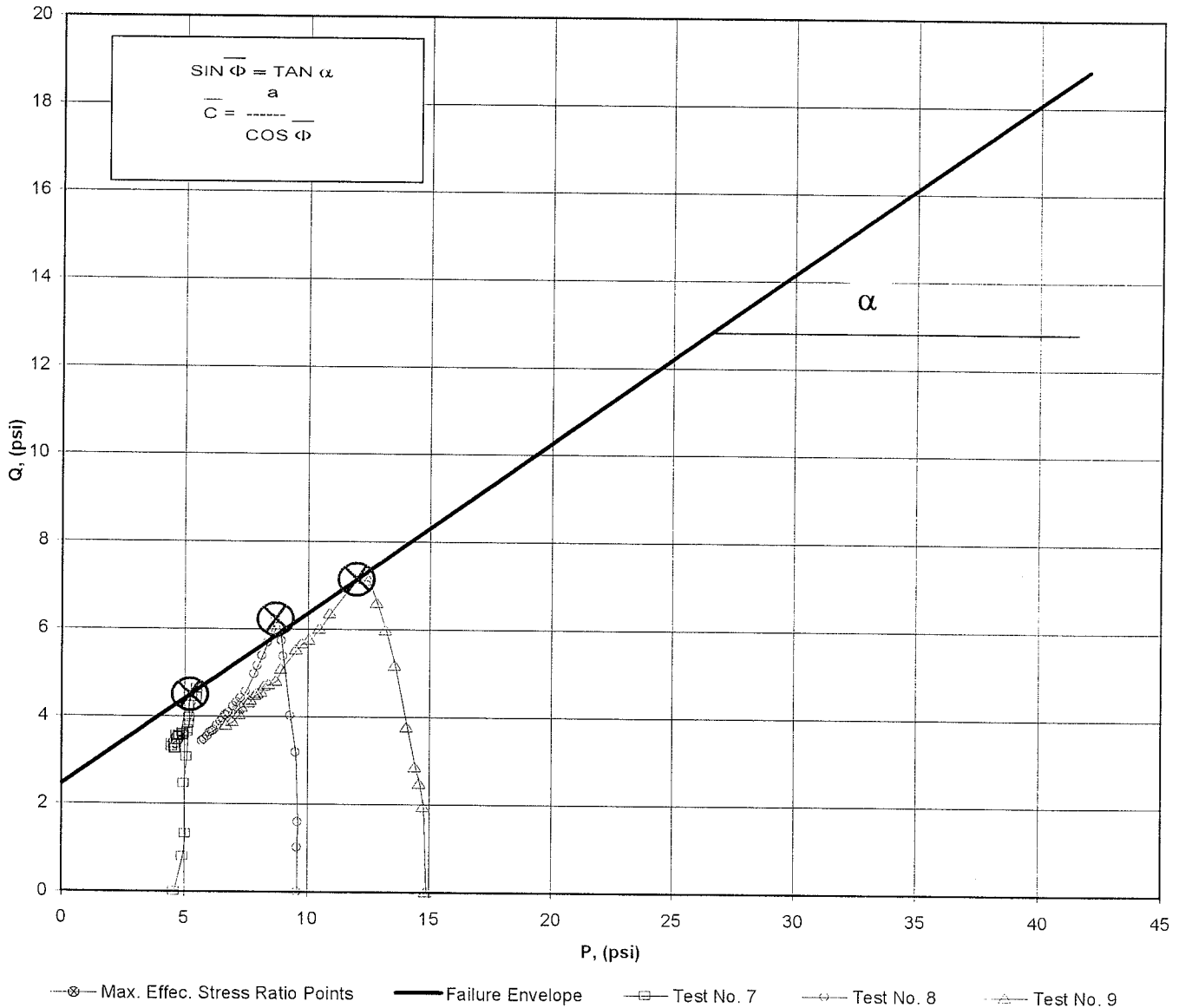
Tested By TO Date 11/18/05 Checked By YMB Date 11-21-05

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**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS
ASTM D4767-95 / AASHTO T297-94 (SOP-S28)**

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-100
Client Reference	GE Processing Facility 20430.014	Depth(ft.)	12.0-14.0
Project No.	2005-329-04	Sample No.	ST-1
Lab ID	2005-329-04-01		

Consolidated Undrained Triaxial Test with Pore Pressure

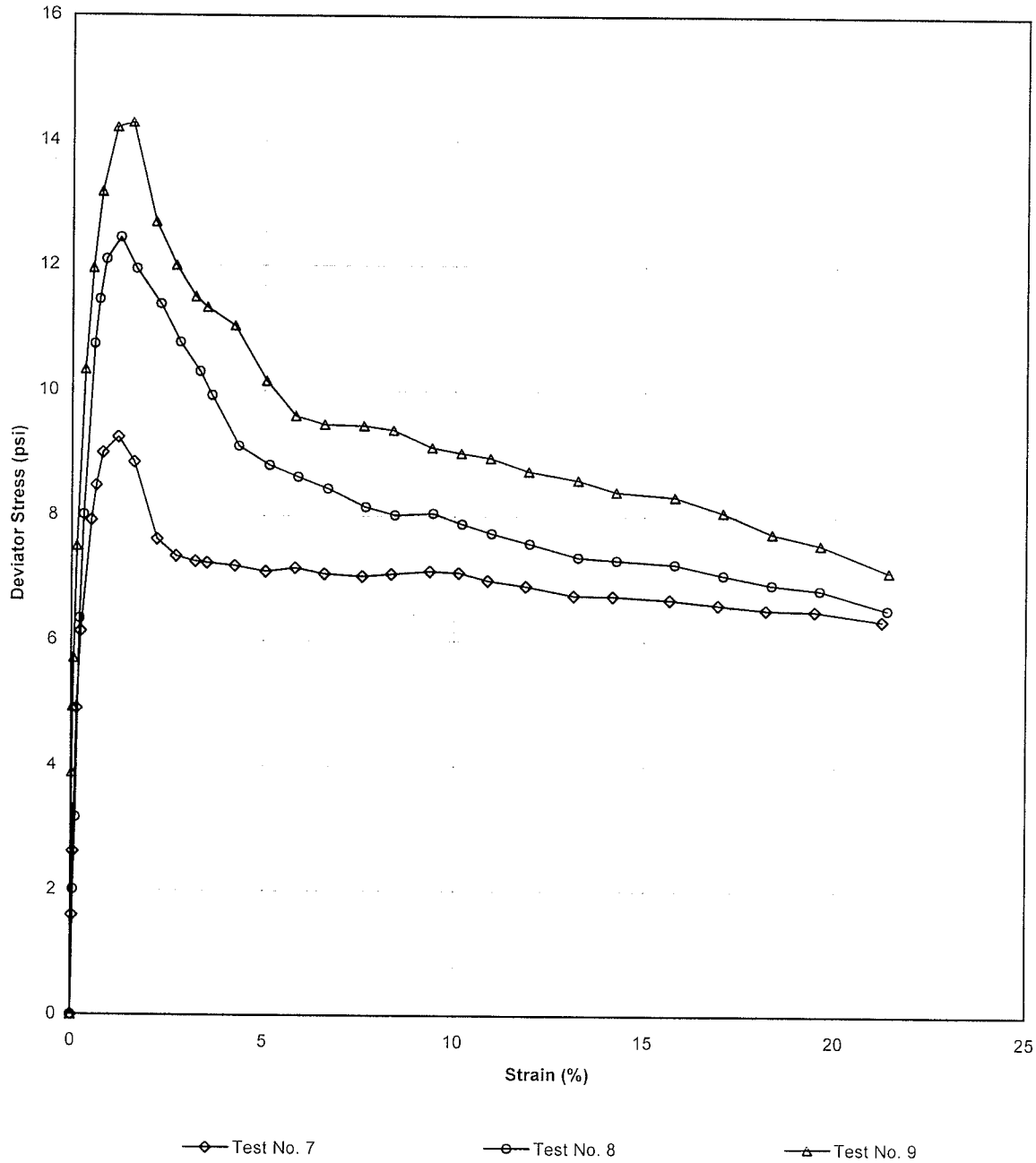


a	=	2.46	\overline{C}	=	2.67
α	=	21.3	$\overline{\Phi}$	=	22.99

Tested By JCM Date 11/15/05 Approved By **DB** Date **11/29/05**

**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS**
ASTM D4767-95 / AASHTO T297-94 (SOP-S28)

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-100
Client Reference	GE Processing Facility 20430.014	Depth(ft.)	12.0-14.4
Project No.	2005-329-04	Sample No.	ST-1
Lab ID	2005-329-04-01		
Visual Description:	SOFT GRAY FAT CLAY (UNDISTURBED)		



Tested By JCM Date 11/15/05 Approved By **DB** Date 11/29/05

**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS**

ASTM D4767-95 / AASHTO T297-94 (SOP-S28)



Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-100
Client Reference	GE Processing Facility 20430.014	Depth(ft.)	13.4-13.9
Project No.	2005-329-04	Sample No.	ST-1
Lab ID	2005-329-04-01		

Visual Description: SOFT GRAY FAT CLAY (UNDISTURBED)

Stage No.	1
Test No	7

INITIAL SAMPLE DIMENSIONS (in)

Length 1	5.849	Diameter 1	2.894
Length 2	5.873	Diameter 2	2.897
Length 3	5.871	Diameter 3	2.895
Avg Leng.=	5.864	Avg. Diam.=	2.895

PRESSURES (psi)

Cell Pressure(psi)	40.1
Back Pressure(psi)	35.5
Eff. Cons. Pressure(psi)	4.6
Pore Pressure	
Response (%)	100

VOLUME CHANGE

Initial Burette Reading (ml)	24.0
Final Burette Reading (ml)	20.2
Final Change (ml)	3.8

MAXIMUM OBLIQUITY POINTS

P	=	5.23
Q	=	4.50

Initial Dial Reading (D.R.), mils	58
D.R. After Saturation, mils	85
D.R. After Consolidation, mils	107

LOAD (LBS)	DEFORMATION (INCHES)	PORE PRESSURE (PSI)
9.4	0.000	35.5
19.8	0.002	36.0
26.5	0.003	36.4
41.4	0.008	37.6
49.4	0.014	38.1
61.2	0.029	38.8
64.9	0.037	39.2
68.5	0.047	39.4
70.4	0.070	39.2
68.0	0.094	39.0
60.1	0.129	38.7
58.5	0.158	38.6
58.3	0.187	38.6
58.3	0.205	38.8
58.3	0.247	38.7
58.1	0.293	38.7
58.9	0.338	38.8
58.7	0.383	38.7
58.9	0.440	38.9
59.6	0.485	38.8
60.5	0.544	39.0
60.8	0.588	38.8
60.3	0.632	38.8
60.2	0.690	38.8
59.8	0.764	39.0
60.4	0.824	38.8
60.9	0.912	38.8
61.0	0.985	38.9
61.2	1.059	38.7
61.8	1.133	38.7
61.8	1.236	38.7

Tested By JCM Date 11/15/05 Input Checked By *KJB* Date 11-29-05

CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS
ASTM D4767-95 / AASHTO T297-94 (SOP-S28)



Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-100
Client Reference	GE Processing Facility 20430.014	Depth(ft.)	13.4-13.9
Project No.	2005-329-04	Sample No.	ST-1
Lab ID	2005-329-04-01		

Visual Description: SOFT GRAY FAT CLAY (UNDISTURBED)

Effective Confining Pressure (psi)	4.6	Stage No.	1
		Test No	7

INITIAL DIMENSIONS

Initial Sample Length (in.)	5.86
Initial Sample Diameter (in.)	2.90
Initial Sample Area (in ²)	6.58
Initial Sample Volume (in ³)	38.61

VOLUME CHANGE

Volume After Consolidation (in ³)	37.85
Length After Consolidation (in)	5.82
Area After Consolidation (in ²)	6.508

Strain (%)	Deviation Stress	Δ U	σ ₁	σ ₃	Effective Principle Stress Ratio	A	P	Q
0.03	1.60	0.46	5.73	4.1	1.386	0.29	4.93	0.80
0.05	2.62	0.86	6.36	3.7	1.701	0.33	5.05	1.31
0.14	4.91	2.07	7.44	2.5	2.936	0.42	4.99	2.45
0.24	6.14	2.58	8.15	2.0	4.044	0.42	5.08	3.07
0.50	7.92	3.35	9.17	1.3	7.326	0.42	5.21	3.96
0.63	8.48	3.67	9.42	0.9	10.071	0.43	5.18	4.24
0.81	9.00	3.87	9.73	0.7	13.384	0.43	5.23	4.50
1.20	9.26	3.71	10.15	0.9	11.374	0.40	5.52	4.63
1.62	8.85	3.53	9.92	1.1	9.267	0.40	5.50	4.43
2.22	7.62	3.23	8.99	1.4	6.582	0.42	5.18	3.81
2.71	7.35	3.14	8.81	1.5	6.029	0.43	5.13	3.67
3.22	7.27	3.10	8.77	1.5	5.840	0.43	5.14	3.63
3.53	7.24	3.29	8.55	1.3	6.533	0.45	4.93	3.62
4.24	7.20	3.25	8.55	1.4	6.320	0.45	4.95	3.60
5.05	7.10	3.16	8.54	1.4	5.938	0.44	4.99	3.55
5.82	7.16	3.25	8.51	1.3	6.325	0.45	4.93	3.58
6.58	7.07	3.18	8.49	1.4	5.996	0.45	4.95	3.54
7.57	7.03	3.38	8.25	1.2	6.780	0.48	4.73	3.52
8.34	7.07	3.31	8.35	1.3	6.500	0.47	4.82	3.53
9.35	7.12	3.48	8.23	1.1	7.363	0.49	4.68	3.56
10.11	7.09	3.34	8.35	1.3	6.642	0.47	4.80	3.55
10.87	6.97	3.33	8.24	1.3	6.479	0.48	4.76	3.48
11.87	6.88	3.33	8.15	1.3	6.424	0.48	4.71	3.44
13.14	6.73	3.46	7.87	1.1	6.909	0.51	4.51	3.37
14.17	6.72	3.31	8.01	1.3	6.229	0.49	4.65	3.36
15.67	6.67	3.34	7.93	1.3	6.273	0.50	4.60	3.33
16.94	6.59	3.39	7.79	1.2	6.459	0.52	4.50	3.29
18.21	6.51	3.18	7.93	1.4	5.590	0.49	4.67	3.25
19.48	6.49	3.23	7.86	1.4	5.749	0.50	4.61	3.24
21.25	6.34	3.20	7.74	1.4	5.536	0.51	4.57	3.17

Tested By JCM Date 11/15/05 Input Checked By *KRB* Date *11-29-05*

**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS**

ASTM D4767-95 / AASHTO T297-94 (SOP-S28)



Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-100
Client Reference	GE Processing Facility 20430.014	Depth(ft.)	12.4-12.9
Project No.	2005-329-04	Sample No.	ST-1
Lab ID	2005-329-04-01		

Visual Description: SOFT GRAY FAT CLAY (UNDISTURBED)

Stage No.	1
Test No	8

INITIAL SAMPLE DIMENSIONS (in)

Length 1	5.848	Diameter 1	2.897
Length 2	5.860	Diameter 2	2.896
Length 3	5.863	Diameter 3	2.892
Avg Leng.=	5.857	Avg. Diam.=	2.895

PRESSURES (psi)

Cell Pressure(psi)	45.1
Back Pressure(psi)	35.5
Eff. Cons. Pressure(psi)	9.6
Pore Pressure Response (%)	100

VOLUME CHANGE

Initial Burette Reading (ml)	48.0
Final Burette Reading (ml)	37.9
Final Change (ml)	10.1

MAXIMUM OBLIQUITY POINTS

P	=	8.70
Q	=	6.22

Initial Dial Reading (D.R.), mils	71
D.R. After Saturation, mils	101
D.R. After Consolidation, mils	147

LOAD (LBS)	DEFORMATION (INCHES)	PORE PRESSURE (PSI)
13.5	0.000	35.5
26.5	0.003	36.5
34.0	0.006	37.1
54.6	0.012	38.8
65.4	0.018	39.8
83.2	0.034	41.5
88.0	0.041	41.9
92.3	0.051	42.3
94.9	0.072	42.6
91.9	0.096	42.5
88.7	0.132	42.4
85.1	0.162	42.3
82.4	0.192	42.3
80.0	0.210	42.2
75.1	0.251	42.2
73.5	0.297	42.2
72.7	0.340	42.3
71.9	0.385	42.3
70.5	0.443	42.4
70.1	0.487	42.4
70.9	0.545	42.5
70.2	0.590	42.5
69.6	0.634	42.5
69.0	0.692	42.5
68.2	0.766	42.6
68.5	0.825	42.6
69.0	0.913	42.7
68.5	0.987	42.7
68.2	1.061	42.7
68.4	1.133	42.8
67.1	1.236	42.8

Tested By JCM Date 11/15/05 Input Checked By YMB Date 11-29-05

**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS**
ASTM D4767-95 / AASHTO T297-94 (SOP-S28)



Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-100
Client Reference	GE Processing Facility 20430.014	Depth(ft.)	12.4-12.9
Project No.	2005-329-04	Sample No.	ST-1
Lab ID	2005-329-04-01		

Visual Description: SOFT GRAY FAT CLAY (UNDISTURBED)

Effective Confining Pressure (psi)	9.6	Stage No.	1
		Test No	8

INITIAL DIMENSIONS

Initial Sample Length (in.)	5.86
Initial Sample Diameter (in.)	2.90
Initial Sample Area (in ²)	6.58
Initial Sample Volume (in ³)	38.55

VOLUME CHANGE

Volume After Consolidation (in ³)	37.34
Length After Consolidation (in)	5.78
Area After Consolidation (in ²)	6.460

Strain (%)	Deviation Stress	ΔU	$\bar{\sigma}_1$	$\bar{\sigma}_3$	Effective Principle Stress Ratio	\bar{A}	\bar{P}	Q
0.06	2.01	0.99	10.61	8.6	1.233	0.50	9.61	1.00
0.11	3.16	1.56	11.20	8.0	1.393	0.49	9.62	1.58
0.21	6.34	3.25	12.69	6.3	1.999	0.51	9.52	3.17
0.31	8.01	4.30	13.31	5.3	2.511	0.54	9.31	4.00
0.58	10.73	5.95	14.38	3.6	3.942	0.55	9.02	5.37
0.71	11.45	6.38	14.67	3.2	4.559	0.56	8.94	5.73
0.88	12.10	6.80	14.90	2.8	5.322	0.56	8.85	6.05
1.25	12.44	7.12	14.92	2.5	6.027	0.57	8.70	6.22
1.66	11.94	7.04	14.50	2.6	5.663	0.59	8.53	5.97
2.29	11.38	6.91	14.07	2.7	5.225	0.61	8.38	5.69
2.80	10.77	6.84	13.52	2.8	4.905	0.64	8.14	5.38
3.33	10.30	6.79	13.11	2.8	4.673	0.66	7.96	5.15
3.64	9.93	6.74	12.79	2.9	4.472	0.68	7.82	4.96
4.34	9.12	6.67	12.04	2.9	4.115	0.73	7.49	4.56
5.14	8.81	6.72	11.69	2.9	4.060	0.76	7.29	4.41
5.89	8.62	6.78	11.44	2.8	4.058	0.79	7.13	4.31
6.66	8.44	6.83	11.21	2.8	4.047	0.81	6.99	4.22
7.65	8.14	6.88	10.87	2.7	3.990	0.84	6.80	4.07
8.42	8.02	6.91	10.71	2.7	3.977	0.86	6.70	4.01
9.44	8.04	6.97	10.68	2.6	4.055	0.87	6.66	4.02
10.20	7.88	6.98	10.50	2.6	4.006	0.89	6.56	3.94
10.97	7.73	6.99	10.33	2.6	3.965	0.91	6.47	3.86
11.98	7.56	7.04	10.12	2.6	3.958	0.93	6.34	3.78
13.25	7.34	7.08	9.87	2.5	3.910	0.96	6.19	3.67
14.27	7.30	7.12	9.77	2.5	3.944	0.98	6.13	3.65
15.80	7.23	7.17	9.67	2.4	3.972	0.99	6.05	3.62
17.07	7.06	7.18	9.48	2.4	3.916	1.02	5.95	3.53
18.35	6.91	7.23	9.28	2.4	3.915	1.05	5.83	3.45
19.61	6.83	7.28	9.15	2.3	3.946	1.07	5.73	3.41
21.39	6.52	7.34	8.77	2.3	3.886	1.13	5.52	3.26

Tested By JCM Date 11/15/05 Input Checked By *KJB* Date 11-29-05



**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS**
ASTM D4767-95 / AASHTO T297-94 (SOP-S28)

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-100
Client Reference	GE Processing Facility 20430.014	Depth(ft.)	12.9-13.4
Project No.	2005-329-04	Sample No.	ST-1
Lab ID	2005-329-04-01		

Visual Description: SOFT GRAY FAT CLAY (UNDISTURBED)

Stage No.	1
Test No	9

INITIAL SAMPLE DIMENSIONS (in)

Length 1	5.893	Diameter 1	2.892
Length 2	5.913	Diameter 2	2.896
Length 3	5.897	Diameter 3	2.896
Avg Leng.=	5.901	Avg. Diam.=	2.895

PRESSURES (psi)

Cell Pressure(psi)	50.4
Back Pressure(psi)	35.5
Eff. Cons. Pressure(psi)	14.9
Pore Pressure Response (%)	99

VOLUME CHANGE

Initial Burette Reading (ml)	72.0
Final Burette Reading (ml)	51.6
Final Change (ml)	20.4

MAXIMUM OBLIQUITY POINTS

P	=	11.99
Q	=	7.14

Initial Dial Reading (D.R.), mils	81
D.R. After Saturation, mils	105
D.R. After Consolidation, mils	192

LOAD (LBS)	DEFORMATION (INCHES)	PORE PRESSURE (PSI)
15.4	0.000	35.8
40.3	0.001	37.6
47.1	0.002	38.2
52.1	0.004	38.8
63.6	0.008	40.0
81.9	0.020	42.0
92.5	0.031	43.2
100.5	0.044	44.1
107.6	0.066	45.0
108.5	0.090	45.6
98.6	0.126	45.8
94.5	0.156	45.9
91.6	0.186	46.1
90.7	0.203	46.3
89.3	0.245	46.4
84.0	0.293	46.5
80.8	0.337	46.5
80.4	0.381	46.7
81.0	0.440	46.7
81.1	0.485	46.8
79.8	0.544	46.8
79.8	0.589	46.9
79.8	0.633	47.0
79.0	0.692	47.1
78.9	0.767	47.1
78.2	0.825	47.3
78.8	0.914	47.4
77.8	0.988	47.2
76.1	1.063	47.3
75.7	1.136	47.4
73.5	1.241	47.5

Tested By JCM Date 11/15/05 Input Checked By *KJB* Date *11-29-05*



**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS**
ASTM D4767-95 / AASHTO T297-94 (SOP-S28)

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-100
Client Reference	GE Processing Facility 20430.014	Depth(ft.)	12.9-13.4
Project No.	2005-329-04	Sample No.	ST-1
Lab ID	2005-329-04-01		

Visual Description: SOFT GRAY FAT CLAY (UNDISTURBED)

Effective Confining Pressure (psi)	14.9	Stage No.	1
		Test No	9

INITIAL DIMENSIONS

Initial Sample Length (in.)	5.90
Initial Sample Diameter (in.)	2.89
Initial Sample Area (in ²)	6.58
Initial Sample Volume (in ³)	38.83

VOLUME CHANGE

Volume After Consolidation (in ³)	37.12
Length After Consolidation (in)	5.79
Area After Consolidation (in ²)	6.410

Strain (%)	Deviation Stress	ΔU	$\bar{\sigma}_1$	$\bar{\sigma}_3$	Effective Principle Stress Ratio	\bar{A}	\bar{P}	Q
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0.02	3.88	2.05	16.73	12.8	1.302	0.53	14.79	1.94
0.04	4.93	2.75	17.08	12.2	1.406	0.56	14.62	2.47
0.06	5.71	3.31	17.29	11.6	1.493	0.59	14.44	2.85
0.14	7.50	4.55	17.86	10.4	1.725	0.61	14.11	3.75
0.34	10.33	6.45	18.78	8.4	2.223	0.63	13.61	5.16
0.54	11.95	7.66	19.19	7.2	2.651	0.65	13.21	5.97
0.77	13.17	8.63	19.45	6.3	3.100	0.66	12.86	6.59
1.15	14.21	9.48	19.63	5.4	3.620	0.67	12.53	7.10
1.55	14.28	10.05	19.13	4.8	3.947	0.71	11.99	7.14
2.17	12.69	10.31	17.28	4.6	3.767	0.82	10.93	6.35
2.69	12.00	10.40	16.50	4.5	3.668	0.88	10.50	6.00
3.21	11.50	10.57	15.82	4.3	3.656	0.93	10.08	5.75
3.51	11.33	10.79	15.44	4.1	3.753	0.96	9.78	5.66
4.22	11.04	10.87	15.07	4.0	3.738	0.99	9.55	5.52
5.05	10.16	11.03	14.02	3.9	3.625	1.10	8.95	5.08
5.82	9.60	10.97	13.53	3.9	3.441	1.15	8.73	4.80
6.57	9.46	11.19	13.17	3.7	3.552	1.19	8.44	4.73
7.61	9.45	11.18	13.16	3.7	3.542	1.20	8.44	4.72
8.38	9.38	11.33	12.95	3.6	3.631	1.22	8.26	4.69
9.40	9.10	11.32	12.68	3.6	3.543	1.26	8.13	4.55
10.17	9.01	11.43	12.49	3.5	3.596	1.28	7.98	4.51
10.93	8.94	11.48	12.36	3.4	3.613	1.30	7.89	4.47
11.95	8.73	11.56	12.07	3.3	3.614	1.34	7.70	4.36
13.25	8.59	11.57	11.92	3.3	3.578	1.36	7.62	4.29
14.25	8.40	11.77	11.52	3.1	3.685	1.42	7.33	4.20
15.79	8.32	11.86	11.36	3.0	3.734	1.44	7.20	4.16
17.07	8.07	11.69	11.28	3.2	3.513	1.46	7.25	4.04
18.36	7.73	11.80	10.83	3.1	3.493	1.54	6.97	3.87
19.62	7.55	11.95	10.51	3.0	3.556	1.60	6.73	3.78
21.43	7.12	12.00	10.02	2.9	3.458	1.70	6.46	3.56

Tested By JCM Date 11/15/05 Input Checked By *KRB* Date 11-29-05

**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS**

ASTM D4767-95 / AASHTO T297-94 (SOP-S28)

Client	BLASLAND, BOUCK & LEE		
Client Reference	GE PROCESSING FACILITY 20430.014		
Project No.	2005-329-04		
Lab ID	2005-329-04-01	Specific Gravity (assumed)	2.7

Visual Description: SOFT GRAY FAT CLAY (UNDISTURBED)

SAMPLE CONDITION SUMMARY

Boring No.	GT-100	GT-100	GT-100
Depth (ft)	13.4-13.9	12.4-12.9	12.9-13.4
Sample No.	ST-1	ST-1	ST-1
Test No.	T7	T8	T9
Deformation Rate (in/min)	0.0014	0.002	0.0014
Back Pressure (psi)	35.5	35.5	35.5
Consolidation Time (days)	1	1	1
Initial State (w%)	72.5	73.7	72.5
Total Unit Weight (pcf)	103.8	100.5	100.3
Dry Unit Weight (pcf)	60.2	57.9	58.1
Final State (w%)	55.5	64.7	62.8
Initial State Void Ratio, e	1.799	1.912	1.899

Tested By JCM Date 11/15/05 Input Checked By YIB Date 11-29-05
 page 1 of 1 DCN: CT-S28 DATE 6-25-98 REVISION: 1 C:\MSOFFICE\EXCEL\PrintQ[D86.xls]Sheet1

UNCONFINED COMPRESSIVE STRENGTH TEST RESULTS

ASTM D 2938-95

CLIENT: Blasland, Bouck, & Lee, Inc.
 CLIENT PROJ: GE Processing Facility 20430.011
 PROJECT NO.: 2005-329-03
 LAB ID NO.: 2005-329-03-02

BORING I.D.: GT-102
 DEPTH(ft): NA
 SAMPLE ID: 2

DESCRIPTION: 2" ROCK CORE

SPECIMEN DIAMETER(in.):

READING 1: 1.99
 READING 2: 1.99
 AVERAGE: 1.99
 AREA(in²): 3.10
 L/D: 1.94

SPECIMEN LENGTH (in.)

BEFORE CAPPING

READING 1: 3.83
 READING 2: 3.84
 READING 3: 3.83
 AVERAGE: 3.83

TOTAL LOAD(lbs) 6,265
COMPRESSIVE STRENGTH (PSI): 2,020

SPECIMEN LENGTH (in.)

AFTER CAPPING

READING 1: 3.87
 READING 2: 3.86
 READING 3: 3.86
 AVERAGE: 3.86

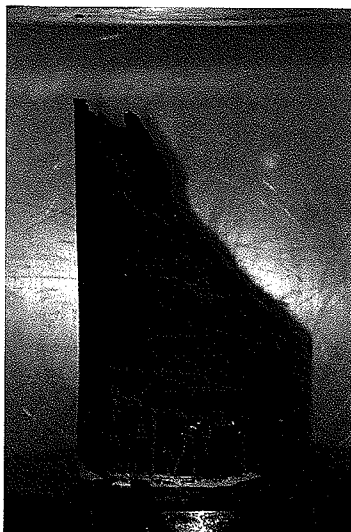
FRACTURE TYPE: **Shear**

RATE OF LOADING(lbs/sec): 72
 TIME TO BREAK(min:sec:100th): 01:35.0
 DEVIATION FROM STRAIGHTNESS⁴:

AXIAL: *Pass* TOP: *Pass* BOTTOM: *Pass*

NOTES:

- 2) Moisture conditions at time of test are as received.
 - 3) Specimens capped with cement/plaster paste.
 - 4) Deviation from straightness, Procedure A of ASTM D 4543.
- Pass/Fail criteria: gap < 0.02 = Pass, gap > 0.02 = Fail



NOTE:

Tested By: **JAC** Date: **10/20/05** Checked By: **DJA** Date: **10-24-05**



SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-106
Client Reference	GE Processing Facility 20430	Depth (ft)	32.2-32.6
Project No.	2005-329-06	Sample No.	ST-1
Lab ID	2005-329-06-01	Soil Color	GRAY

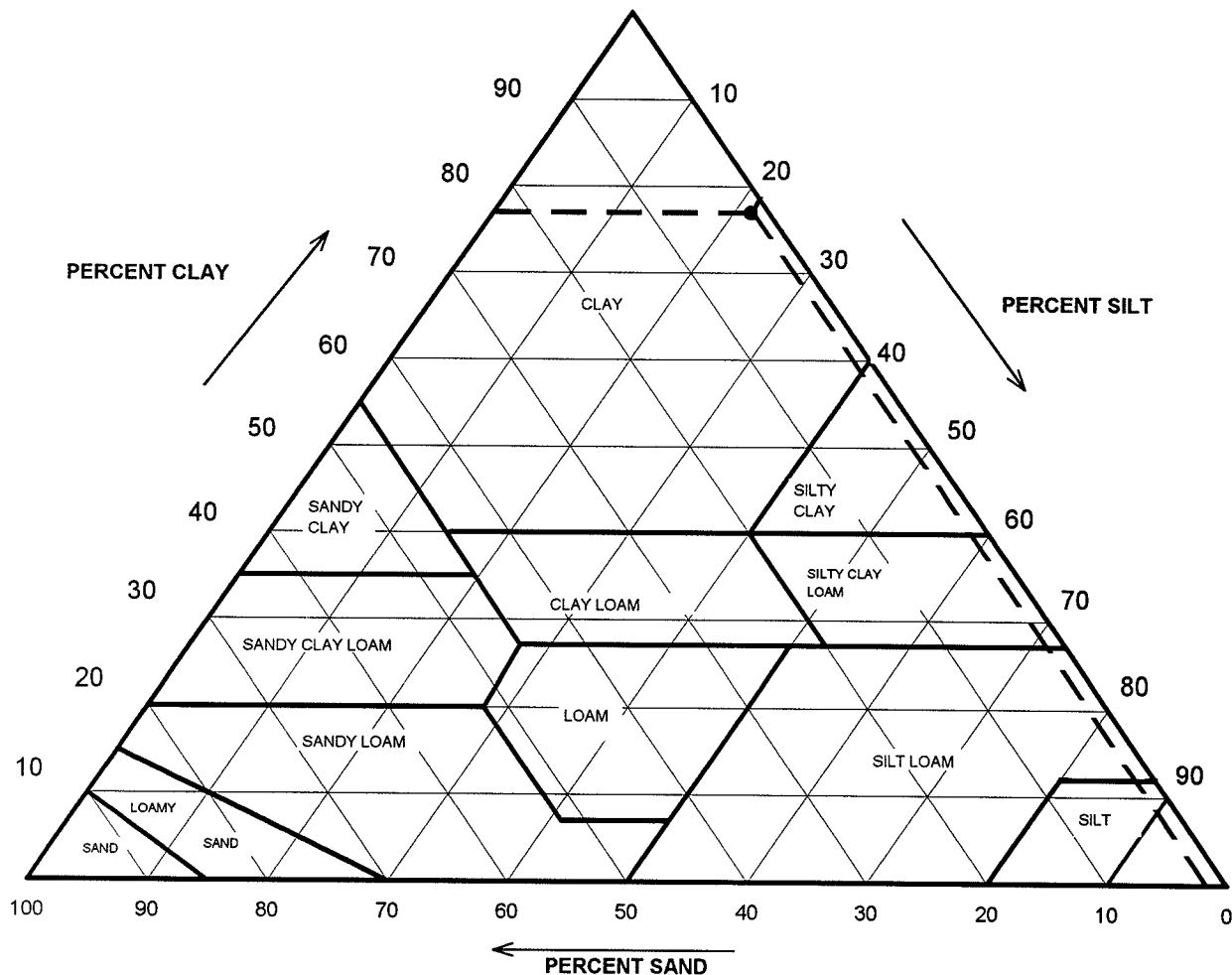
USCS USDA	SIEVE ANALYSIS			HYDROMETER	
	cobbles	gravel	sand	silt and clay fraction	
	cobbles	gravel	sand	silt	clay



USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	Gravel	0.00
#4 To #200	Sand	0.00
Finer Than #200	Silt & Clay	100.00
USCS Symbol	CH, TESTED	
USCS Classification	FAT CLAY	

USDA CLASSIFICATION CHART

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-106
Client Reference	GE Processing Facility 20430	Depth (ft)	32.2-32.6
Project No.	2005-329-06	Sample No.	ST-1
Lab ID	2005-329-06-01	Soil Color	GRAY



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	1.52	1.52
0.05	98.48	<i>Silt</i>	21.51	21.51
0.002	76.98	<i>Clay</i>	76.98	76.98
USDA Classification		CLAY		



WASH SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-106
Client Reference	GE Processing Facility 20430	Depth (ft)	32.2-32.6
Project No.	2005-329-06	Sample No.	ST-1
Lab ID	2005-329-06-01	Soil Color	GRAY

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	707	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	501.71	Wgt. Tare + Wet Specimen (gm)	NA
Wgt. Tare + Dry Specimen (gm)	350.35	Wgt. Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	99.45	Weight of Tare (gm)	NA
Weight of Water (gm)	151.36	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	250.90	Weight of Dry Soil (gm)	NA
Moisture Content (%)	60.3	Moisture Content (%)	NA

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	250.90
Dry Weight - 3/4" Sample (gm)	0.00	Weight of minus #200 material (gm)	250.90
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	0.00
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.00	0.00	100.00	100.00
6"	150	0.00	0.00	0.00	100.00	100.00
3"	75	0.00	0.00	0.00	100.00	100.00
2"	50	0.00	0.00	0.00	100.00	100.00
1 1/2"	37.5	0.00	0.00	0.00	100.00	100.00
1"	25.0	0.00	0.00	0.00	100.00	100.00
3/4"	19.0	0.00	0.00	0.00	100.00	100.00
1/2"	12.5	0.00	0.00	0.00	100.00	100.00
3/8"	9.50	0.00	0.00	0.00	100.00	100.00
#4	4.75	0.00	0.00	0.00	100.00	100.00
#10	2.00	0.00	0.00	0.00	100.00	100.00
#20	0.85	0.00	0.00	0.00	100.00	100.00
#40	0.425	0.00	0.00	0.00	100.00	100.00
#60	0.250	0.00	0.00	0.00	100.00	100.00
#140	0.106	0.00	0.00	0.00	100.00	100.00
#200	0.075	0.00	0.00	0.00	100.00	100.00
Pan	-	250.90	100.00	100.00	-	-

Tested By TO Date 12/27/05 Checked By *YHB* Date 1-11-06

HYDROMETER ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-106
Client Reference	GE Processing Facility 20430	Depth (ft)	32.2-32.6
Project No.	2005-329-06	Sample No.	ST-1
Lab ID	2005-329-06-01	Soil Color	GRAY

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	54.0	21.1	7.13	46.9	96.0	0.01327	0.0256	96.0
5	54.0	21.1	7.13	46.9	96.0	0.01327	0.0162	96.0
15	54.0	21.1	7.13	46.9	96.0	0.01327	0.0093	96.0
30	54.0	21.1	7.13	46.9	96.0	0.01327	0.0066	96.0
60	53.5	21.2	7.09	46.4	95.0	0.01325	0.0047	95.0
250	47.5	21.4	7.02	40.5	82.9	0.01322	0.0024	82.9
1440	36.0	21.8	6.87	29.1	59.6	0.01316	0.0011	59.6

Soil Specimen Data		Other Corrections	
Tare No.	922		
Tare + Dry Material (gm)	156.37	a - Factor	0.99
Weight of Tare (gm)	103.02		
Weight of Deflocculant (gm)	5.0	Percent Finer than # 200	100.00
Weight of Dry Material (gm)	48.35		
		Specific Gravity	2.7 Assumed

Note: Hydrometer test is performed on - # 200 sieve material.

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-106
Client Reference	GE Processing Facility 20430	Depth (ft)	32.2-32.6
Project No.	2005-329-06	Sample No.	ST-1
Lab ID	2005-329-06-01	Soil Description	GRAY FAT CLAY (Minus No. 40 sieve material, Airdried)

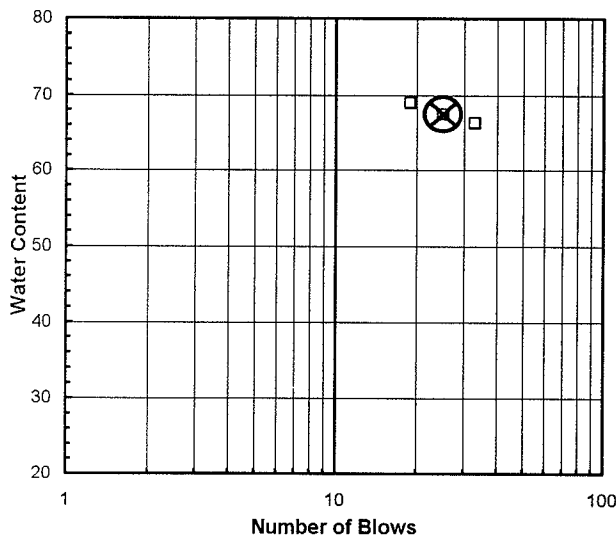
Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description.

Liquid Limit Test	1	2	3	
Tare Number	249	220	91	M U L T I P O I N T
Wt. of Tare & WS (gm)	41.01	40.03	34.74	
Wt. of Tare & DS (gm)	33.03	31.79	27.05	
Wt. of Tare (gm)	20.98	19.57	15.90	
Wt. of Water (gm)	8.0	8.2	7.7	
Wt. of DS (gm)	12.1	12.2	11.2	
Moisture Content (%)	66.2	67.4	69.0	
Number of Blows	33	25	19	

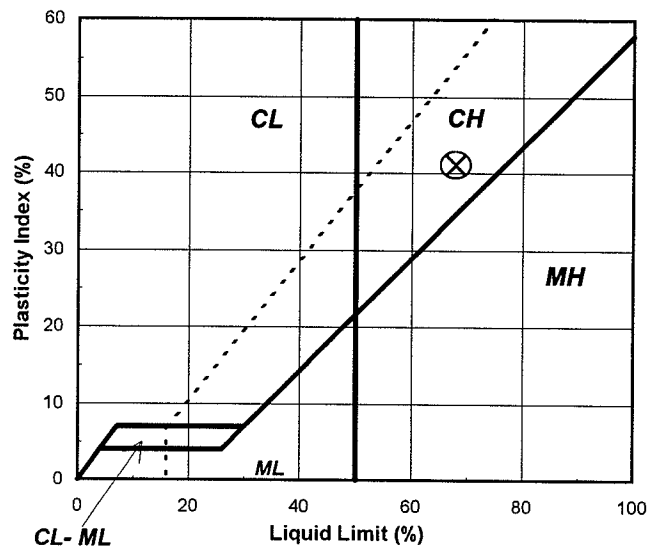
Plastic Limit Test	1	2	Range	Test Results	
Tare Number	2253	2223		Liquid Limit (%)	68
Wt. of Tare & WS (gm)	25.33	25.50		Plastic Limit (%)	27
Wt. of Tare & DS (gm)	24.01	24.17		Plasticity Index (%)	41
Wt. of Tare (gm)	19.16	19.22		USCS Symbol	CH
Wt. of Water (gm)	1.3	1.3			
Wt. of DS (gm)	4.9	5.0			
Moisture Content (%)	27.2	26.9	0.3		

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve



Plasticity Chart



Tested By JP Date 1/5/06 Checked By HR Date 1-6-06

page 1 of 1 DCN: CT-S4B DATE: 10/8/01 REVISION: 2

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-106
Client Reference	GE Processing Facility 20430.011	Depth (ft)	32.8-33.0
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-14	Visual Description	GRAY CLAY (Minus No.4 sieve material, airdried)

Replicate Number	1	2
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	734.38	722.98
Temperature, T (°Celsius)	27.9	27.3
Weight of Pycnometer + Water (gm)	680.23	669.79
Tare Number	1678	957
Weight of Tare + Dry Soil (gm)	178.82	187.66
Weight of Tare (gm)	93.52	103.65
Weight of Dry Soil (gm)	85.30	84.01
Specific Gravity of Soil @ T	2.739	2.726
Specific Gravity of Water @ T	0.9963	0.9965
Conversion Factor for Temperature T	0.9981	0.9982
Specific Gravity @ 20° Celsius	2.744	2.731

Average Specific Gravity @ 20° Celsius 2.74

Tested By TO Date 10/24/05 Checked By KJB Date 10-26-05
DCN: CT-SS Date 4/29/05 Revision: 10 C:\MSOFFICE\Excel\PrintQ\Q0201.xls\Sheet1

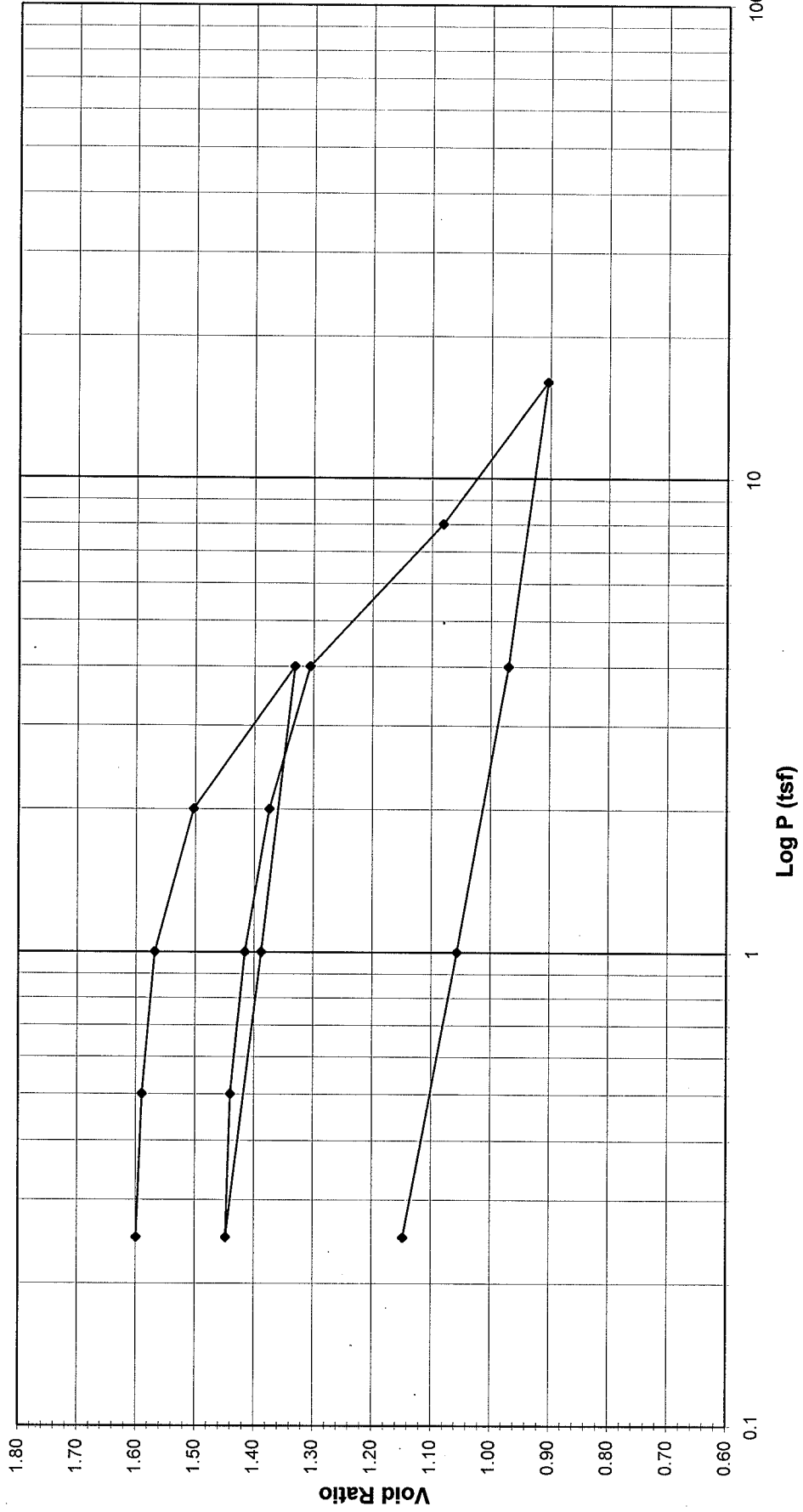


ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-106
Client Reference	GE PROCESSING FACILITY 20430.011	Depth (ft)	32.6-32.8
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-14	Visual Description	SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Tested By TM Date 10/19/05 Approved By DS Date 10/23/05



ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-106
Client Reference	GE PROCESSING FACILITY 20430.011	Depth (ft)	32.6-32.8
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-14	Visual Description	SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED

Consolidometer No. 2
1 Division = 0.0001 (in)

Sample Properties

	Initial	Final
<i>Water Content</i>		
Tare Number	01	1399
Wt. Tare & WS (gm)	163.88	154.42
Wt. Tare & DS (gm)	123.75	118.69
Wt. Water (gm)	40.13	35.73
Wt. Tare (gm)	51.19	38.17
Wt. DS (gm)	72.56	80.52
Water Content (%)	55.31	44.37
<i>Sample Parameters</i>		
Sample Diameter (in)	2.5	2.5
Sample Height (in)	1	0.822
Sample Volume (cc)	80.44	66.13
Wt. Wet Sample + Ring (gm)	275.92	266.69
Wt. of Ring (gm)	144.83	144.83
Wt. of Wet Sample (gm)	131.09	121.86
Wet Density (pcf)	101.69	114.98
Wet Density (g/cc)	1.63	1.84
Water Content (%)	55.31	44.37
Wt. of Dry Sample (gm)	84.41	84.41
Dry Density (pcf)	65.48	79.64
Dry Density (g/cc)	1.05	1.28
Void Ratio	1.6112	1.1468
Saturation (%)	94.05	106.02
Specific Gravity	2.74	Measured

Test Data Summary

Applied Pressure (tsf)	Final Dial Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	25.400	80.440	1.04933	1.61120
0.25	50.0	2.8	47.2	25.280	80.060	1.05430	1.59889
0.5	90.6	7.0	83.7	25.188	79.767	1.05818	1.58936
1	181.8	15.1	166.7	24.977	79.099	1.06711	1.56767
2	444.3	27.7	416.7	24.342	77.088	1.09495	1.50240
4	1110.7	39.4	1071.3	22.679	71.822	1.17523	1.33146
1	879.0	24.1	854.9	23.229	73.563	1.14741	1.38798
0.25	633.3	6.8	626.5	23.809	75.400	1.11946	1.44762
0.5	668.1	12.7	655.4	23.735	75.167	1.12293	1.44005
1	767.4	19.1	748.3	23.499	74.420	1.13420	1.41580
2	934.9	28.5	906.4	23.098	73.149	1.15392	1.37452
4	1210.4	39.3	1171.1	22.425	71.020	1.18851	1.30541
8	2082.6	51.5	2031.1	20.241	64.101	1.31678	1.08083
16	2772.7	63.6	2709.1	18.519	58.648	1.43922	0.90381
4	2502.9	46.8	2456.1	19.161	60.683	1.39096	0.96986
1	2149.6	22.9	2126.7	19.998	63.332	1.33277	1.05587
0.25	1788.9	10.3	1778.6	20.882	66.133	1.27633	1.14678

Tested By TM Date 10/19/05 Input Checked By GU Date 10/31/05
 C:\My Documents\Consolidation\Printfiles\BB&L2005_329_01_14FNPLT.xls\Sheet1



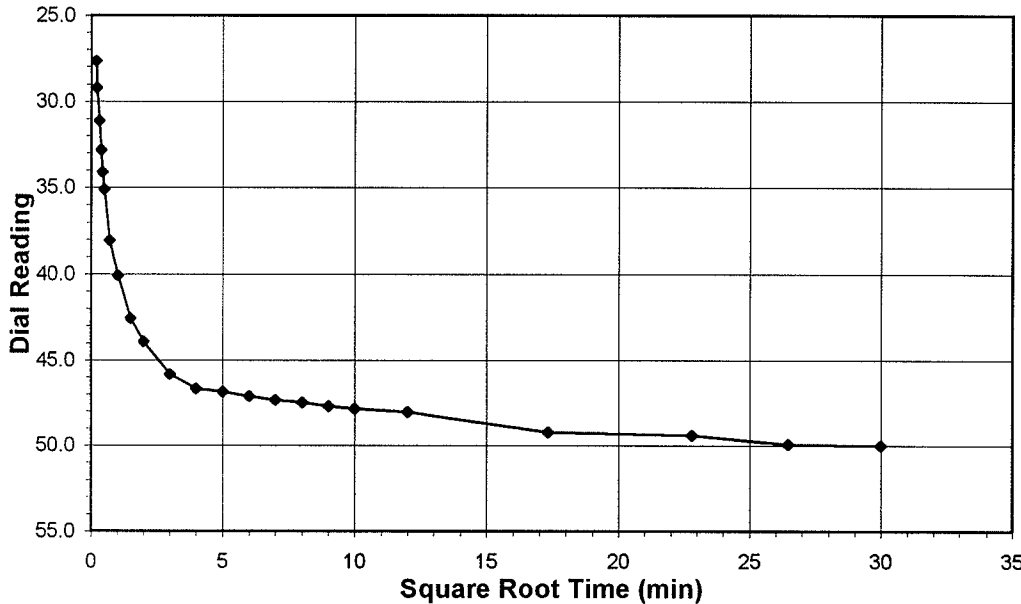
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE
 Client Project: GE PROCESSING FACILITY 20430.011
 Project No.: 2005-329-01
 Lab ID: 2005-329-01-14

Boring No.: GT-106
 Depth (ft): 32.6-32.8
 Sample No.: ST-1
 Visual Description: SOFT GRAY CLAY

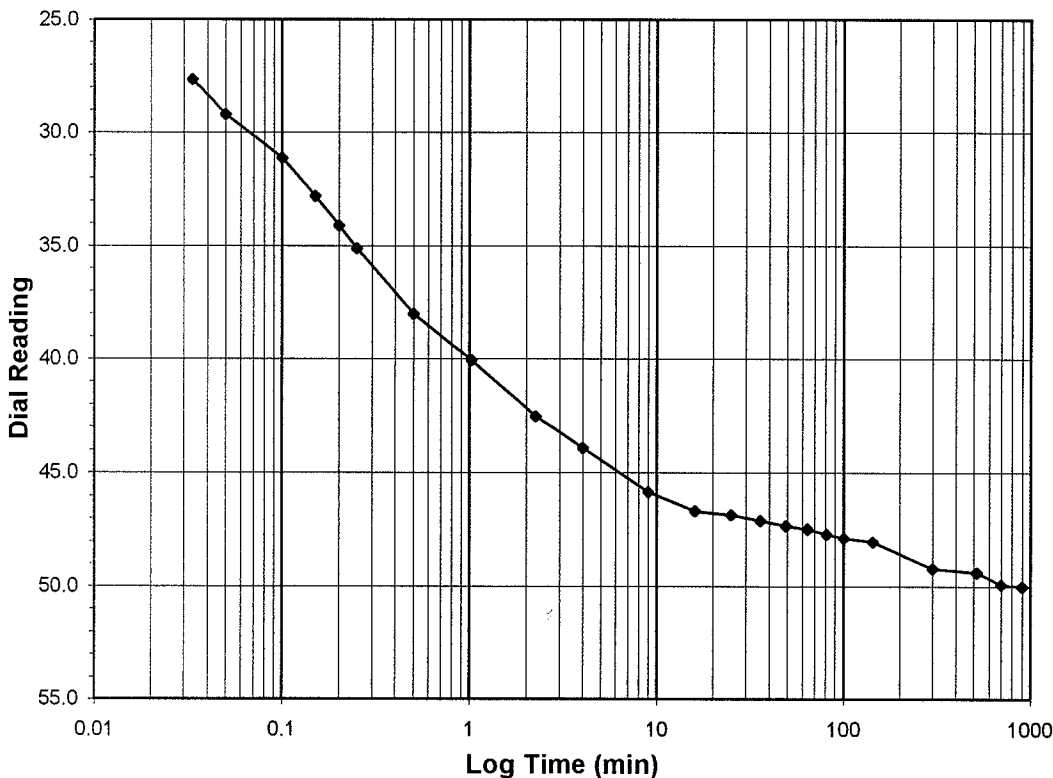
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0-0.25
 Final Reading (div): 50.0
 Consolidometer No.: 2
 1 Division (in): 0.0001

Start Date: 10/19/05
 Start Time: 16:11:21

Elapsed Time (min)	Dial Reading (div)
Initial	0.0
0.03	27.7
0.05	29.2
0.10	31.1
0.15	32.8
0.20	34.1
0.25	35.1
0.50	38.0
1.02	40.1
2.25	42.5
4.00	43.9
9.02	45.8
16.00	46.7
25.00	46.9
36.00	47.1
49.00	47.3
64.00	47.5
81.00	47.7
100.00	47.9
144.00	48.0
300.00	49.2
520.00	49.4
700.00	49.9
900.00	50.0



Tested By: TM Date: 10/19/05 Checked By: GO Date: 10/31/05

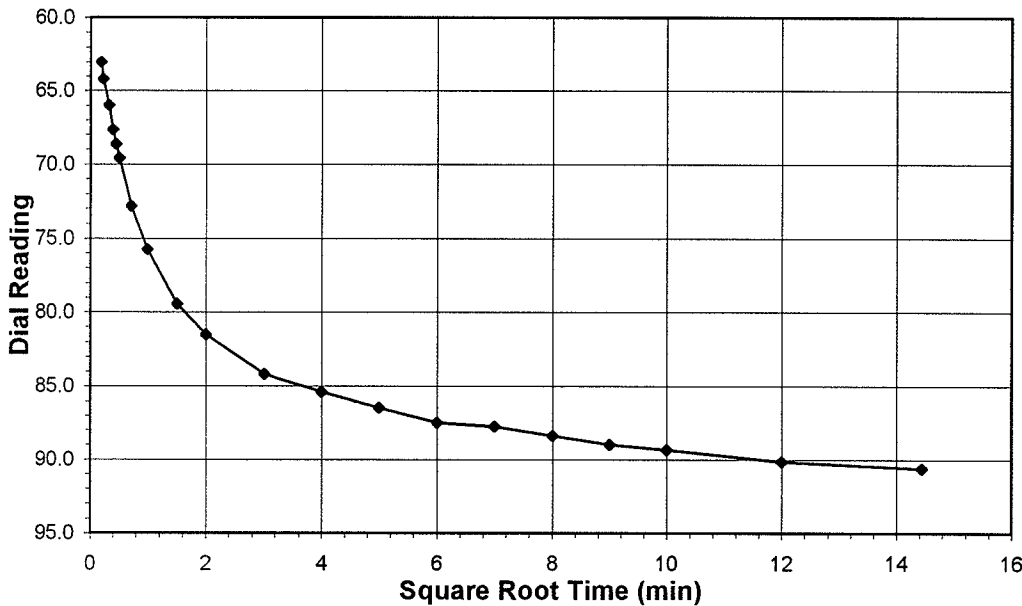


ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-90 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-14**

Boring No. **GT-106**
 Depth (ft) **32.6-32.8**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

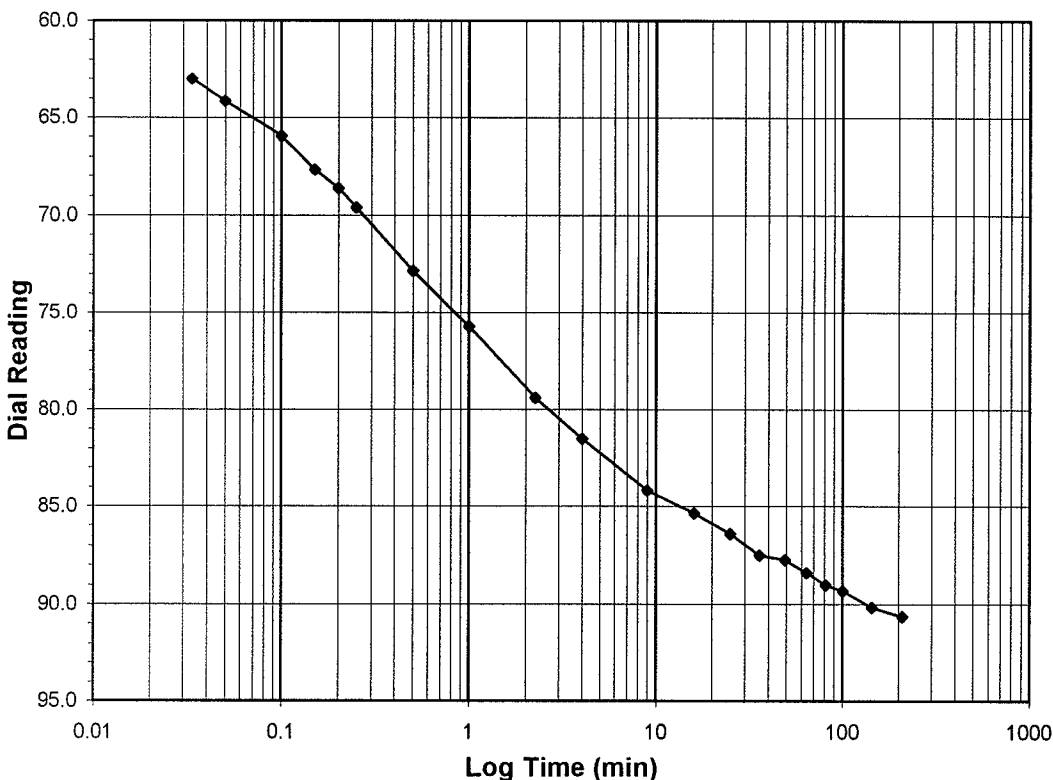
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.25-0.5
Final Reading (div) 90.6
 Consolidometer No. **2**
 1 Division (in) **0.0001**

Start Date 10/20/05
Start Time 7:28:25

Elapsed Time (min)	Dial Reading (div)
Initial	50.0
0.03	63.0
0.05	64.2
0.10	66.0
0.15	67.7
0.20	68.6
0.25	69.6
0.50	72.8
1.00	75.7
2.25	79.4
4.00	81.5
9.02	84.2
16.00	85.4
25.00	86.4
36.00	87.5
49.00	87.7
64.00	88.4
81.00	89.0
100.00	89.3
144.00	90.2
208.52	90.6



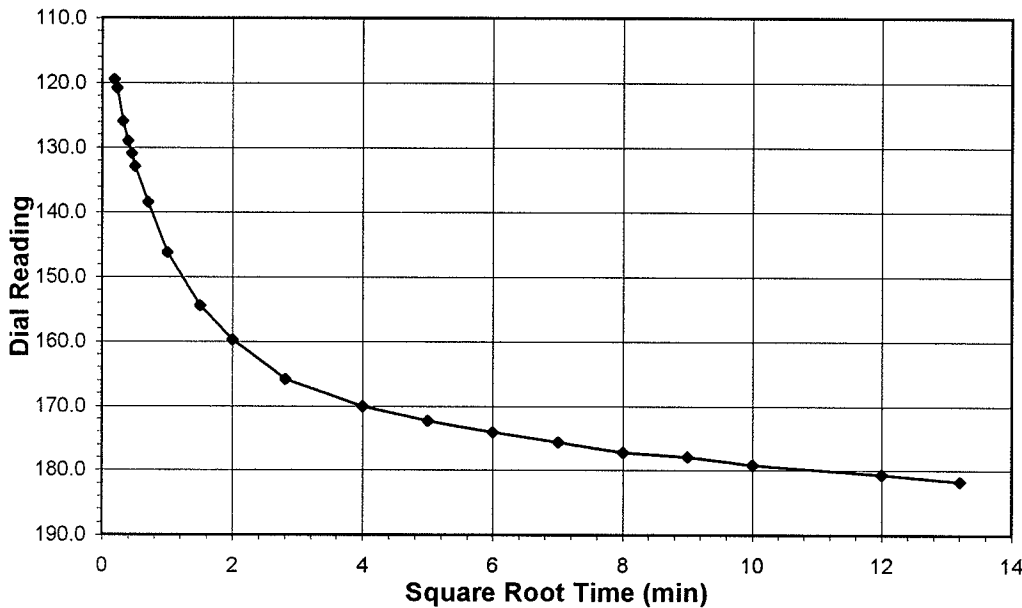
Tested By **TM** Date **10/20/05** Checked By **GO** Date **10/31/05**

ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-90 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-14**

Boring No. **GT-106**
 Depth (ft) **32.6-32.8**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

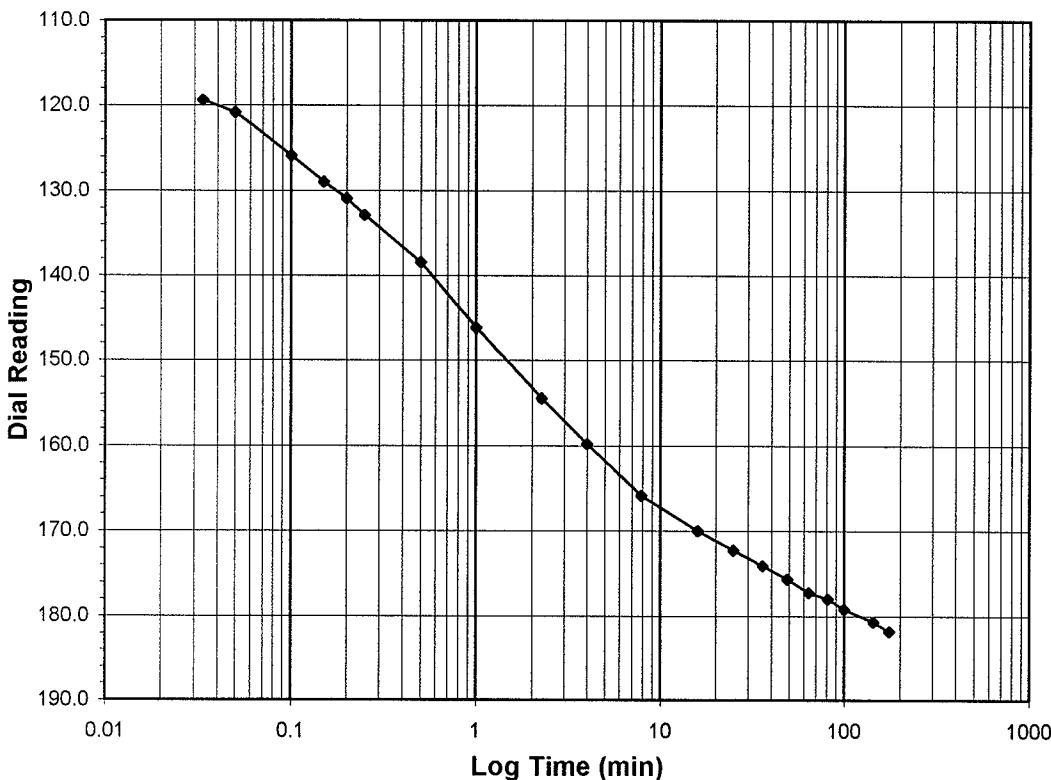
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.5-1.0
Final Reading (div) 181.8
 Consolidometer No. **2**
 1 Division (in) **0.0001**

Start Date 10/20/05
Start Time 11:17:00

Elapsed Time (min)	Dial Reading (div)
Initial	90.6
0.03	119.4
0.05	120.8
0.10	125.9
0.15	129.0
0.20	130.9
0.25	132.9
0.50	138.4
1.00	146.2
2.25	154.4
4.00	159.8
7.88	165.8
16.00	170.0
25.00	172.3
36.00	174.0
49.00	175.7
64.00	177.2
81.00	178.0
100.00	179.2
144.00	180.7
174.42	181.8



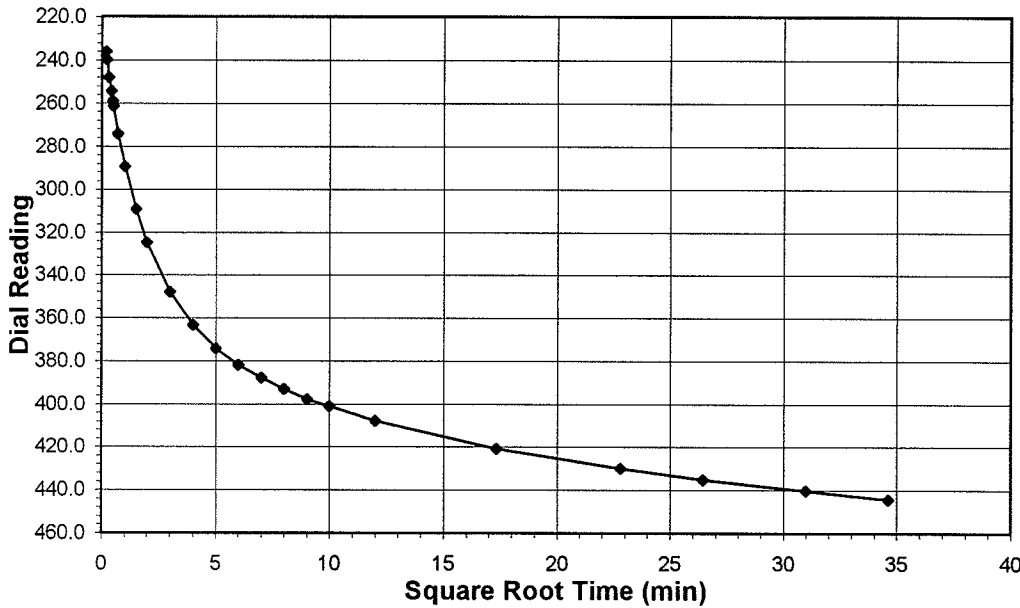
Tested By **TM** Date **10/20/05** Checked By **GU** Date **10/31/05**

ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-90 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-14**

Boring No. **GT-106**
 Depth (ft) **32.6-32.8**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

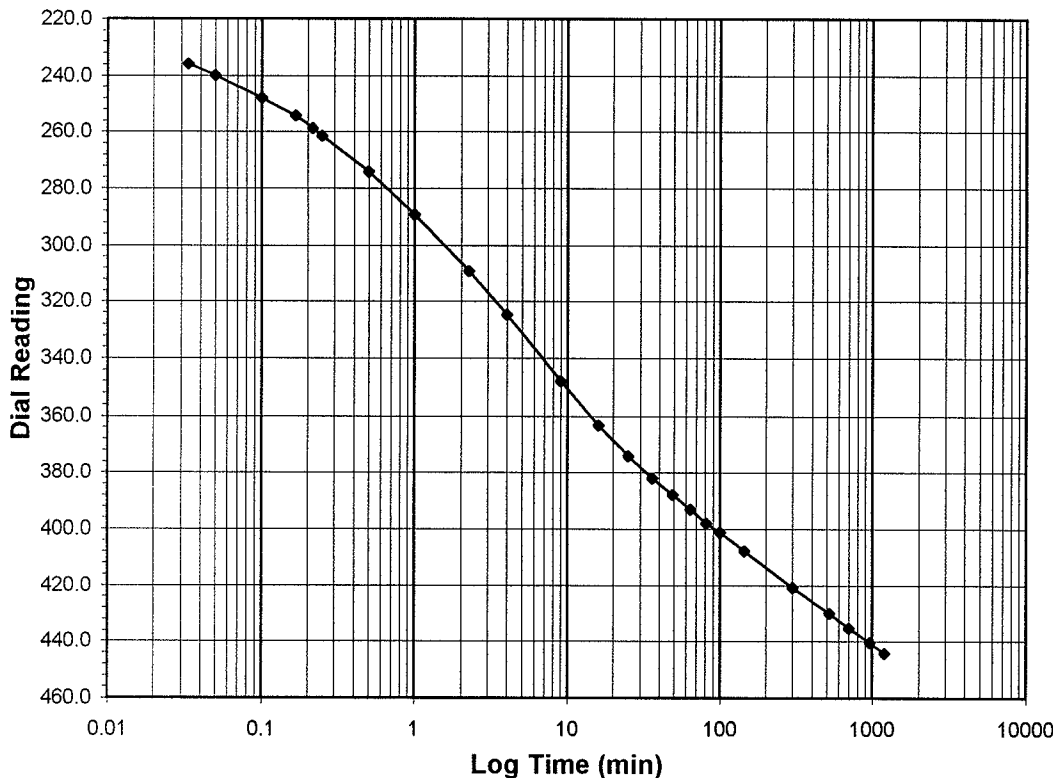
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 1.0-2.0
Final Reading (div) 444.3
 Consolidometer No. **2**
 1 Division (in) **0.0001**

Start Date 10/20/05
Start Time 14:19:16

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	181.8
0.03	235.8
0.05	239.8
0.10	248.0
0.17	254.3
0.22	258.9
0.25	261.4
0.50	274.2
1.00	289.2
2.25	309.1
4.00	324.8
9.02	347.9
16.00	363.2
25.00	374.1
36.00	381.9
49.00	387.7
64.00	393.1
81.00	397.9
100.00	401.2
144.00	407.7
300.00	420.8
520.00	430.0
700.00	435.1
960.00	440.3
1199.60	444.3



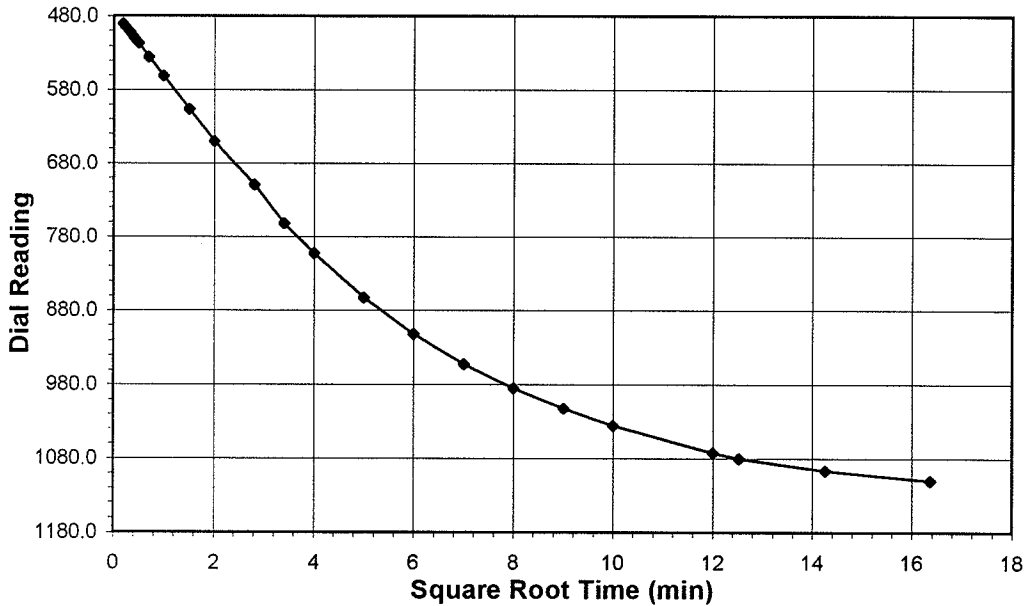
Tested By **TM** Date **10/20/05** Checked By **GU** Date **10/31/05**

ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-90 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-14**

Boring No. **GT-106**
 Depth (ft) **32.6-32.8**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

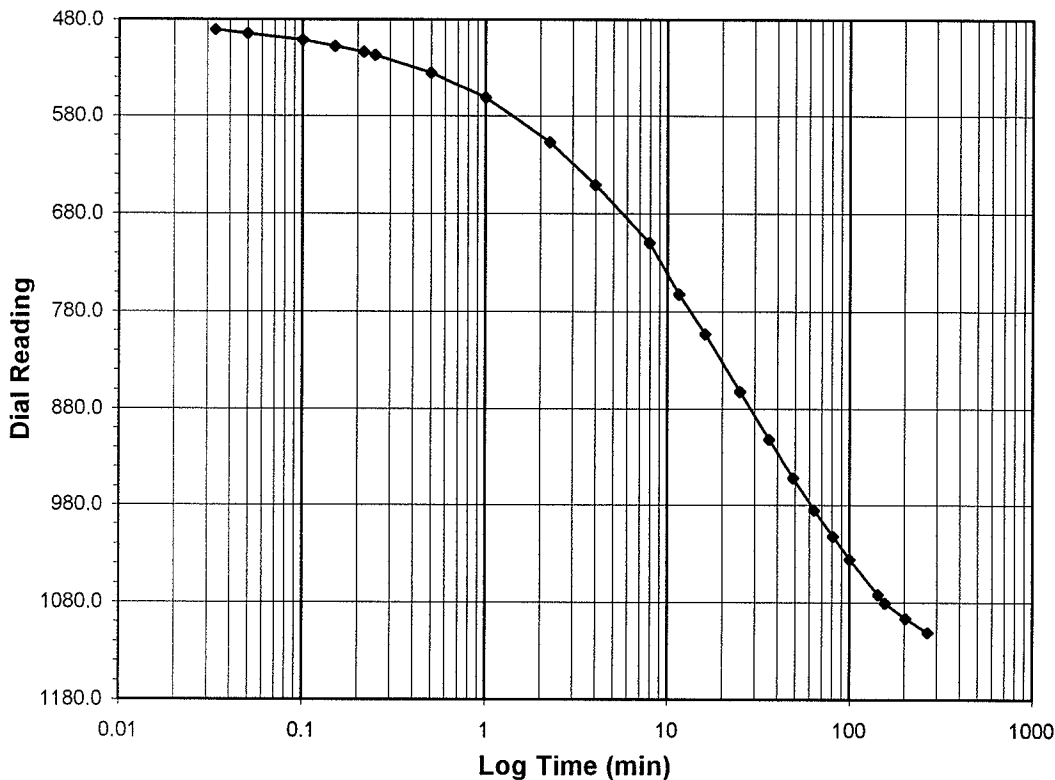
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 2.0-4.0
Final Reading (div) 1110.7
 Consolidometer No. **2**
 1 Division (in) **0.0001**

Start Date 10/21/05
Start Time 10:28:38

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	444.3
0.03	490.5
0.05	494.4
0.10	501.4
0.15	507.8
0.22	513.3
0.25	516.5
0.50	534.9
1.00	561.2
2.25	606.8
4.00	650.7
7.89	709.8
11.56	762.0
16.00	802.9
25.00	862.5
36.00	911.7
49.00	951.9
64.00	985.0
81.00	1012.5
100.00	1035.8
144.00	1072.3
156.90	1080.7
203.33	1096.7
267.68	1110.7



Tested By **TM** Date **10/21/05** Checked By **GU** Date **10/31/05**

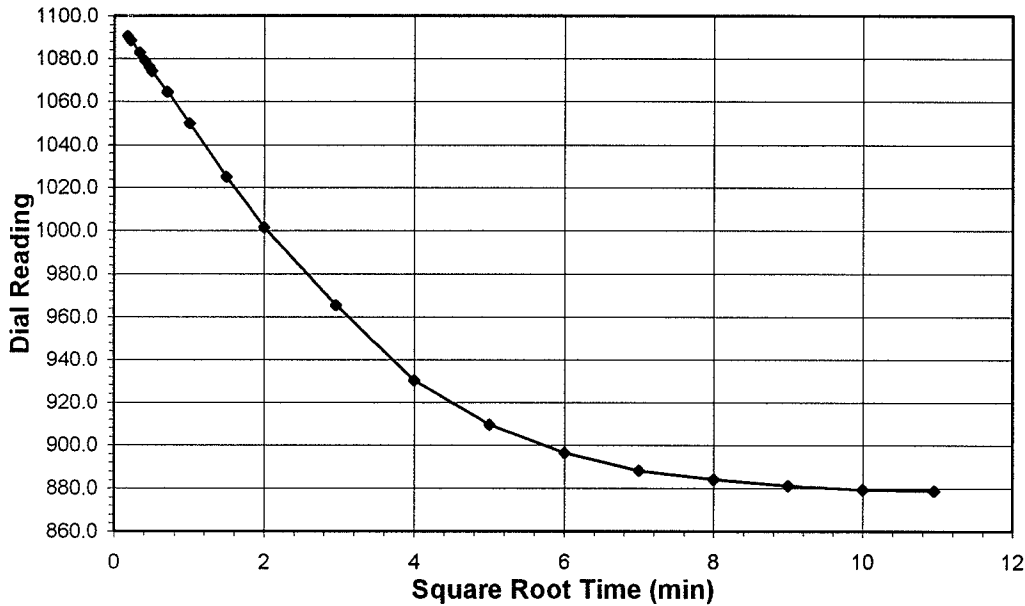
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-14**

Boring No. **GT-106**
 Depth (ft) **32.6-32.8**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

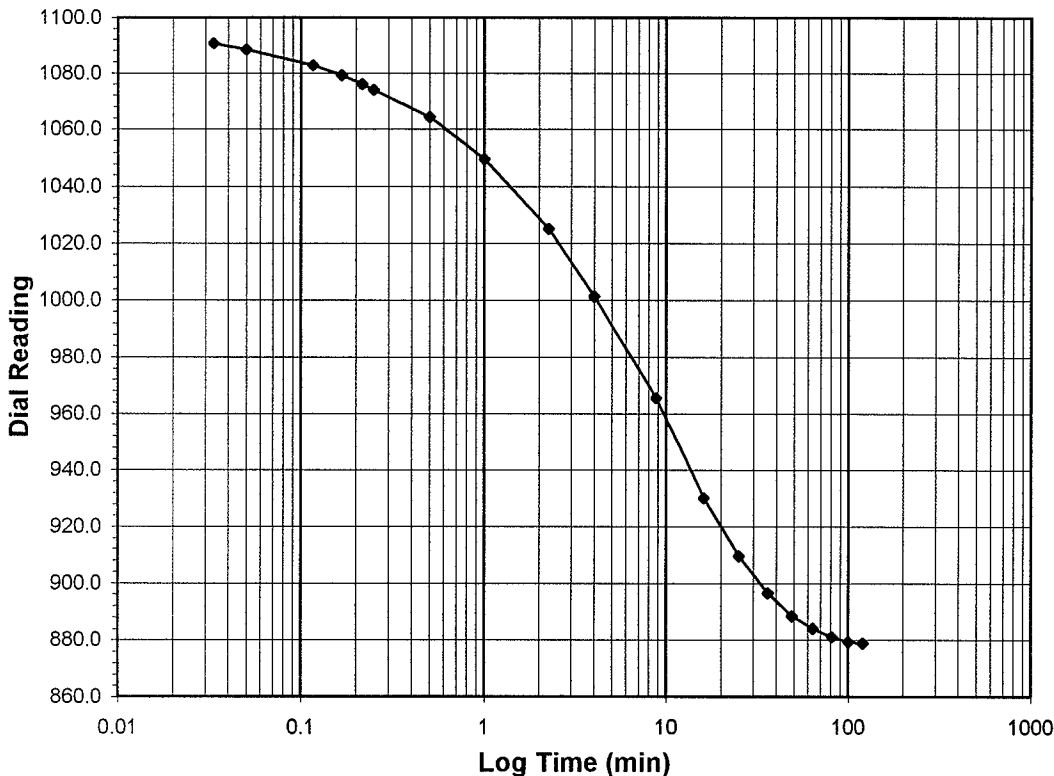
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) **4.0-1.0**
 Final Reading (div) **879.0**
 Consolidometer No. **2**
 1 Division (in) **0.0001**

Start Date **10/21/05**
 Start Time **15:14:08**

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	1110.7
0.03	1090.7
0.05	1088.5
0.12	1082.8
0.17	1079.2
0.22	1076.0
0.25	1074.1
0.50	1064.4
1.00	1049.7
2.25	1025.2
4.00	1001.4
8.78	965.6
16.00	930.1
25.00	909.6
36.00	896.6
49.00	888.5
64.00	884.1
81.00	881.3
100.00	879.4
120.05	879.0



Tested By **TM** Date **10/21/05** Checked By **GO** Date **10/31/05**

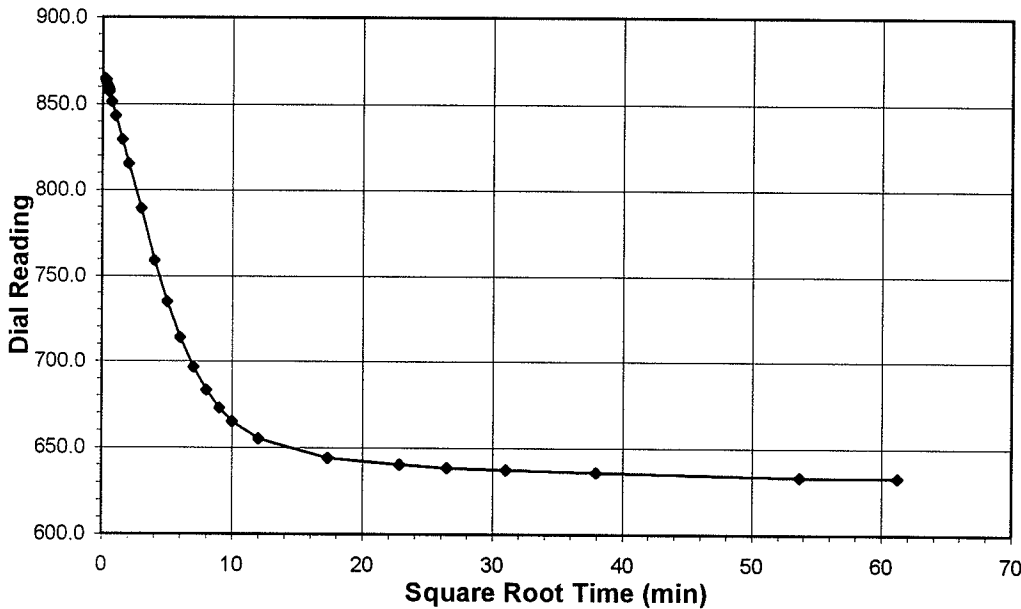


ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-90 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE
 Client Project: GE PROCESSING FACILITY 20430.011
 Project No.: 2005-329-01
 Lab ID: 2005-329-01-14

Boring No.: GT-106
 Depth (ft): 32.6-32.8
 Sample No.: ST-1
 Visual Description: SOFT GRAY CLAY

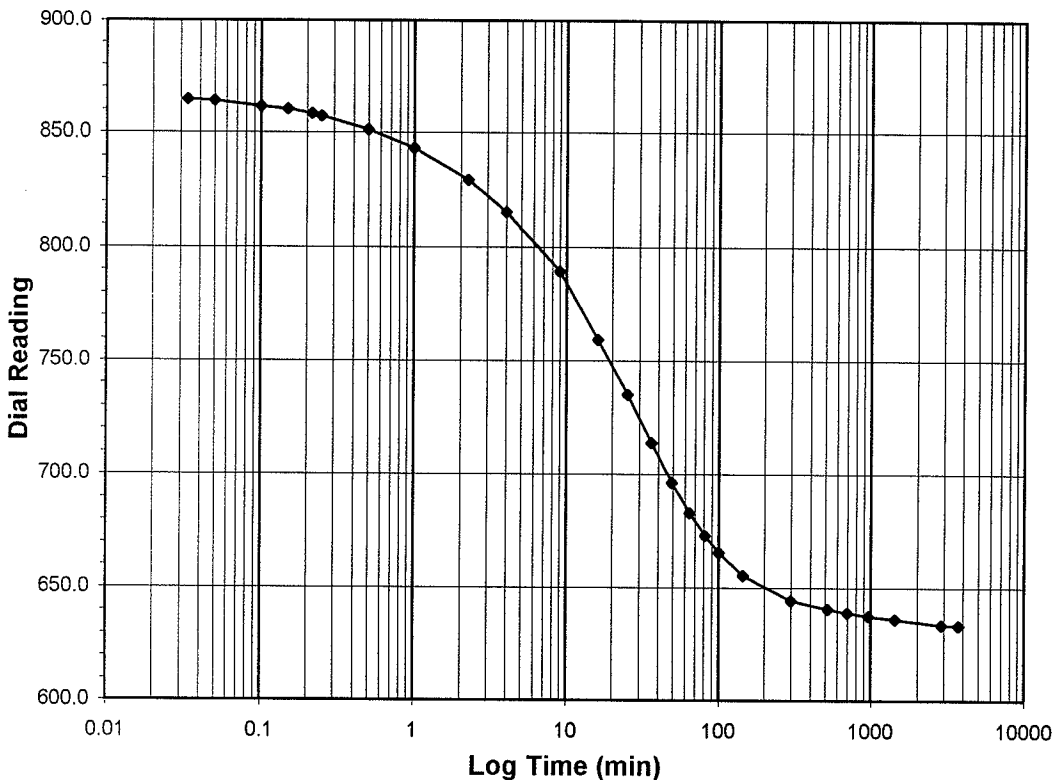
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 1.0-0.25
 Final Reading (div): 633.3
 Consolidometer No.: 2
 1 Division (in): 0.0001

Start Date: 10/21/05
 Start Time: 17:20:15

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	879.0
0.03	864.5
0.05	864.0
0.10	861.5
0.15	860.2
0.22	858.2
0.25	857.1
0.50	851.3
1.00	843.4
2.25	829.5
4.00	815.5
9.02	789.3
16.02	759.4
25.00	735.0
36.00	713.8
49.00	696.4
64.00	683.2
81.00	672.9
100.00	665.3
144.00	655.2
300.00	644.3
520.00	640.5
700.00	638.9
960.00	637.6
1440.00	636.0
2880.00	633.7
3750.00	633.3



Tested By: TM Date: 10/21/05 Checked By: GU Date: 10/31/05

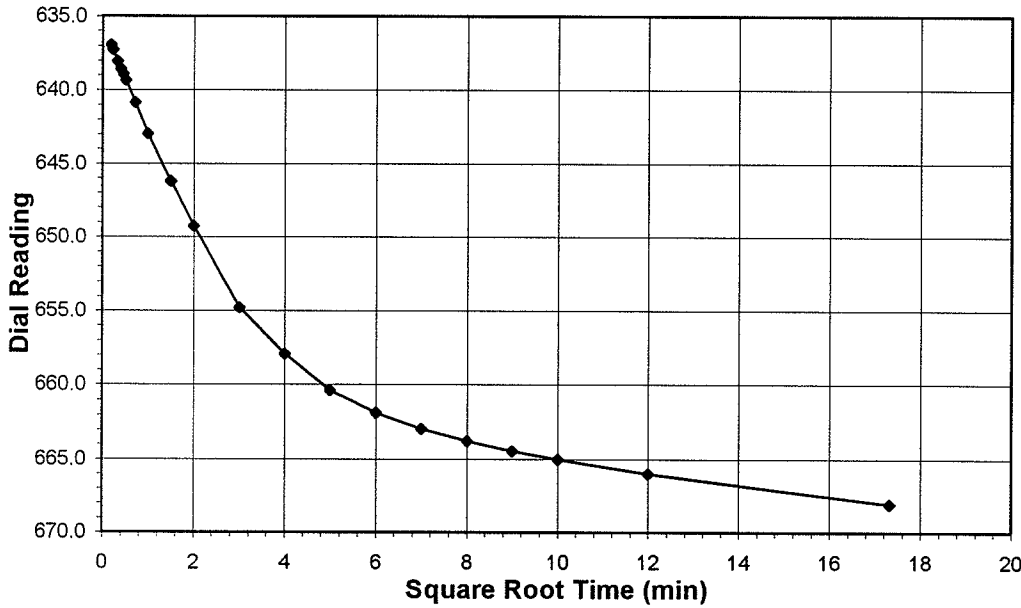


ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-90 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-14**

Boring No. **GT-106**
 Depth (ft) **32.6-32.8**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

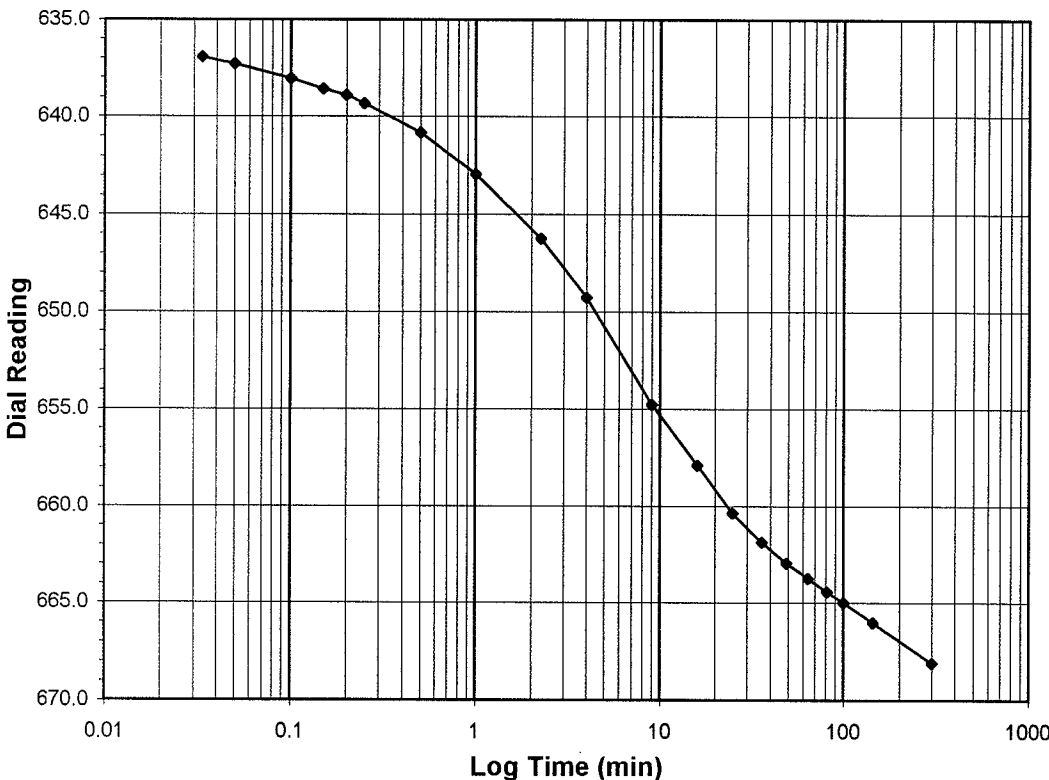
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.25-0.5
Final Reading (div) 668.1
 Consolidometer No. 2
 1 Division (in) 0.0001

Start Date 10/24/05
Start Time 8:04:59

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	633.3
0.03	637.0
0.05	637.3
0.10	638.1
0.15	638.6
0.20	638.9
0.25	639.4
0.50	640.8
1.00	642.9
2.25	646.2
4.00	649.3
9.02	654.8
16.00	657.9
25.00	660.4
36.00	661.9
49.00	663.0
64.00	663.8
81.00	664.4
100.00	665.0
144.00	666.0
300.00	668.1



Tested By **TM** Date **10/24/05** Checked By **GO** Date **10/31/05**

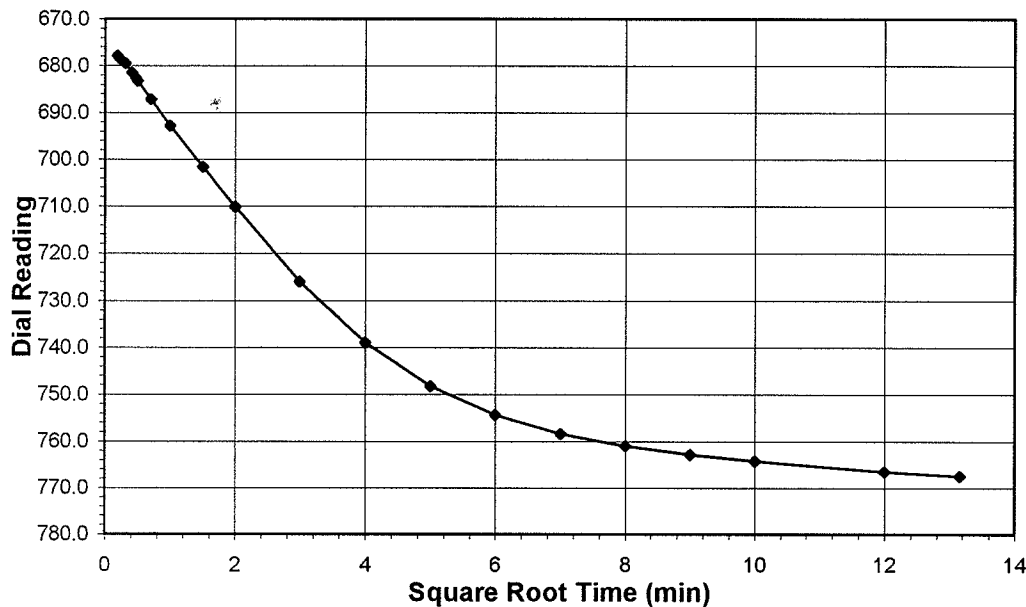
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-14**

Boring No. **GT-106**
 Depth (ft) **32.6-32.8**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

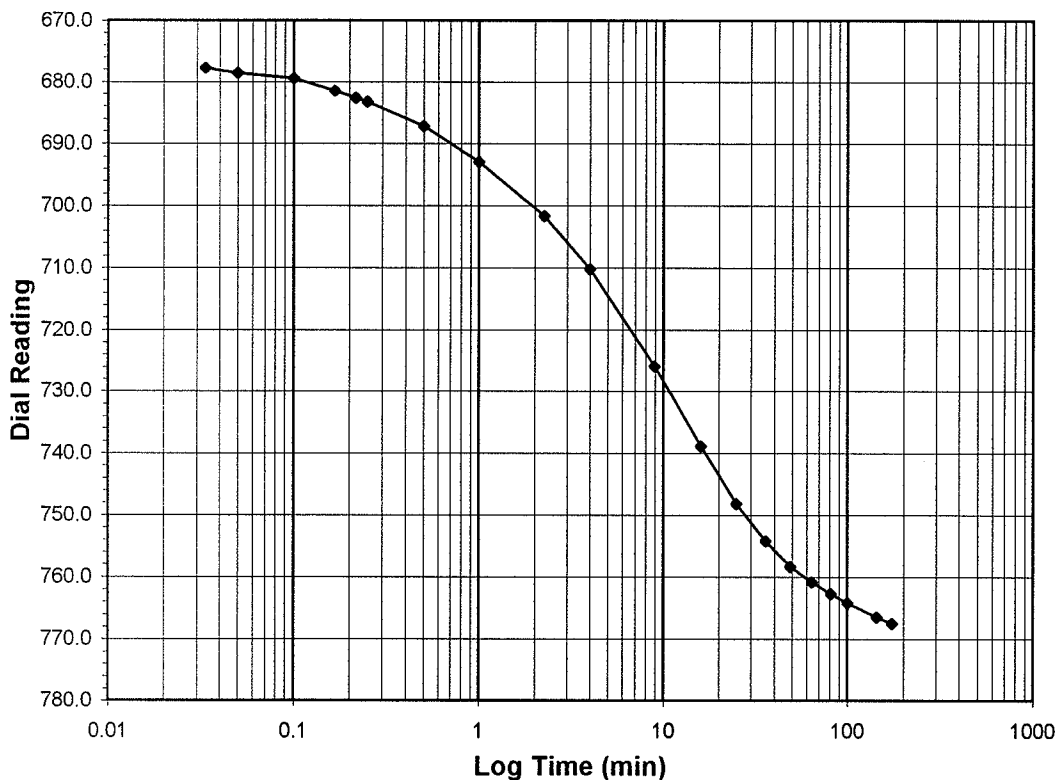
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) **0.5-1.0**
 Final Reading (div) **767.4**
 Consolidometer No. **2**
 1 Division (in) **0.0001**

Start Date **10/24/05**
 Start Time **13:52:17**

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	668.1
0.03	677.8
0.05	678.6
0.10	679.4
0.17	681.5
0.22	682.6
0.25	683.2
0.50	687.2
1.00	692.8
2.25	701.6
4.00	710.2
8.95	726.0
16.00	738.9
25.00	748.2
36.00	754.3
49.00	758.4
64.00	760.9
81.00	762.8
100.00	764.2
144.00	766.5
173.18	767.4



Tested By **TM** Date **10/24/05** Checked By **GU** Date **10/31/05**



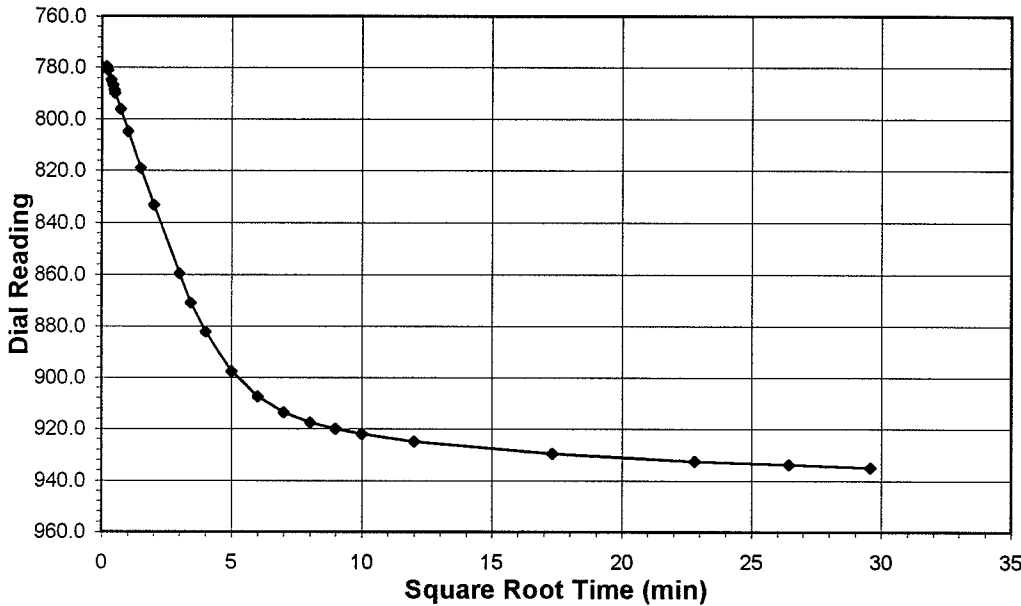
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE
 Client Project: GE PROCESSING FACILITY 20430.011
 Project No.: 2005-329-01
 Lab ID: 2005-329-01-14

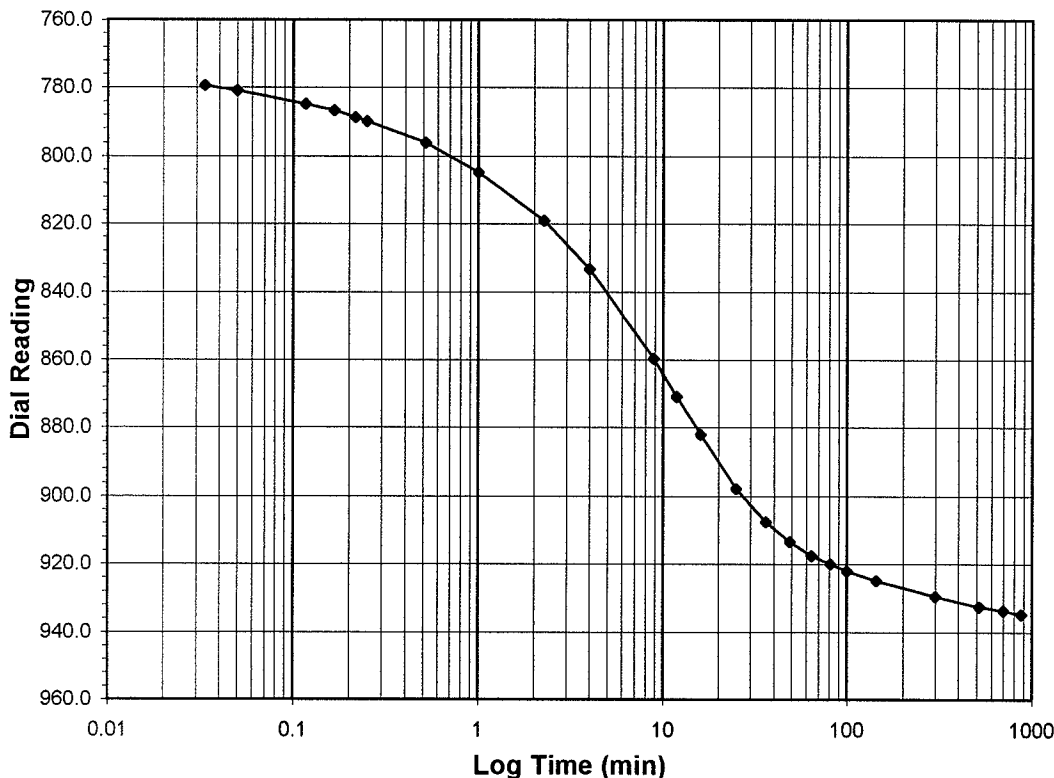
Boring No.: GT-106
 Depth (ft): 32.6-32.8
 Sample No.: ST-1
 Visual Description: SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 1.0-2.0
 Final Reading (div) 934.9
 Consolidometer No. 2
 1 Division (in) 0.0001
 Start Date 10/24/05
 Start Time 16:52:04

Elapsed Time (min)	Dial Reading (div)
Initial	767.4
0.03	779.4
0.05	781.0
0.12	784.9
0.17	786.8
0.22	788.8
0.25	789.9
0.52	796.1
1.00	804.7
2.25	818.9
4.00	833.3
8.89	859.6
11.83	870.9
16.00	882.1
25.00	897.7
36.02	907.5
49.00	913.5
64.00	917.4
81.00	919.9
100.00	922.0
144.00	924.9
300.00	929.6
520.00	932.5
700.00	933.7
875.00	934.9



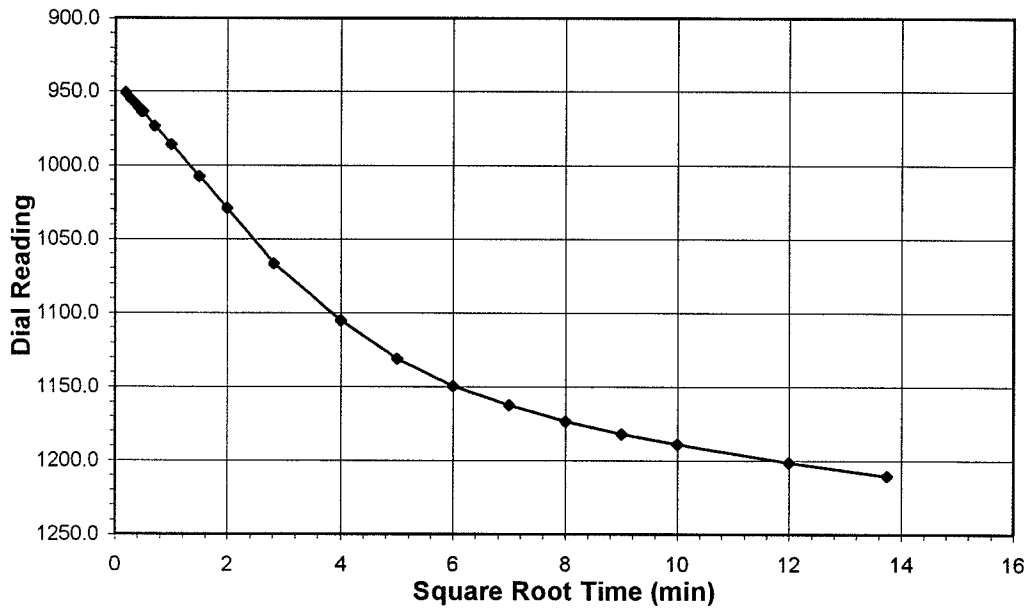
Tested By TM Date 10/24/05 Checked By GU Date 10/31/05

ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-90 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-14**

Boring No. **GT-106**
 Depth (ft) **32.6-32.8**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

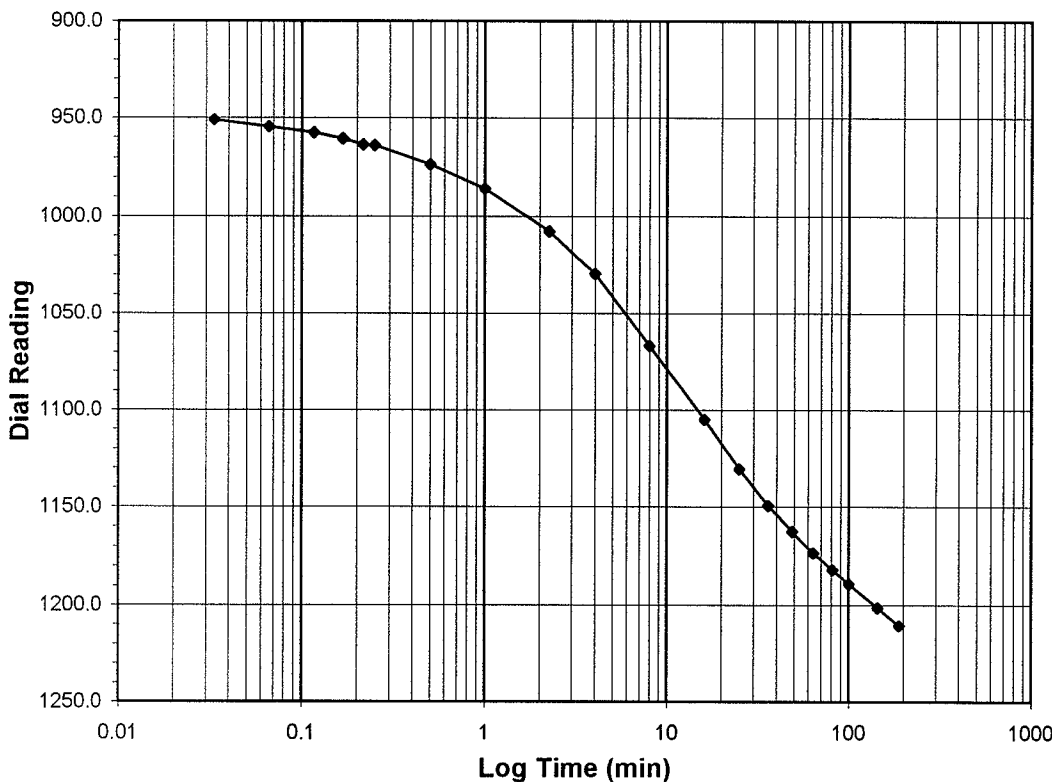
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 2.0-4.0
Final Reading (div) 1210.4
 Consolidometer No. **2**
 1 Division (in) **0.0001**

Start Date 10/25/05
Start Time 7:40:17

Elapsed Time (min)	Dial Reading (div)
Initial	934.9
0.03	950.9
0.07	954.5
0.12	957.7
0.17	960.7
0.22	963.5
0.25	963.8
0.50	973.3
1.00	985.8
2.25	1007.5
4.00	1029.2
7.98	1066.7
16.00	1105.1
25.00	1130.7
36.00	1149.2
49.00	1162.5
64.00	1173.3
81.00	1181.9
100.00	1189.1
144.00	1201.5
188.98	1210.4



Tested By **TM** Date **10/25/05** Checked By **GU** Date **10/31/05**

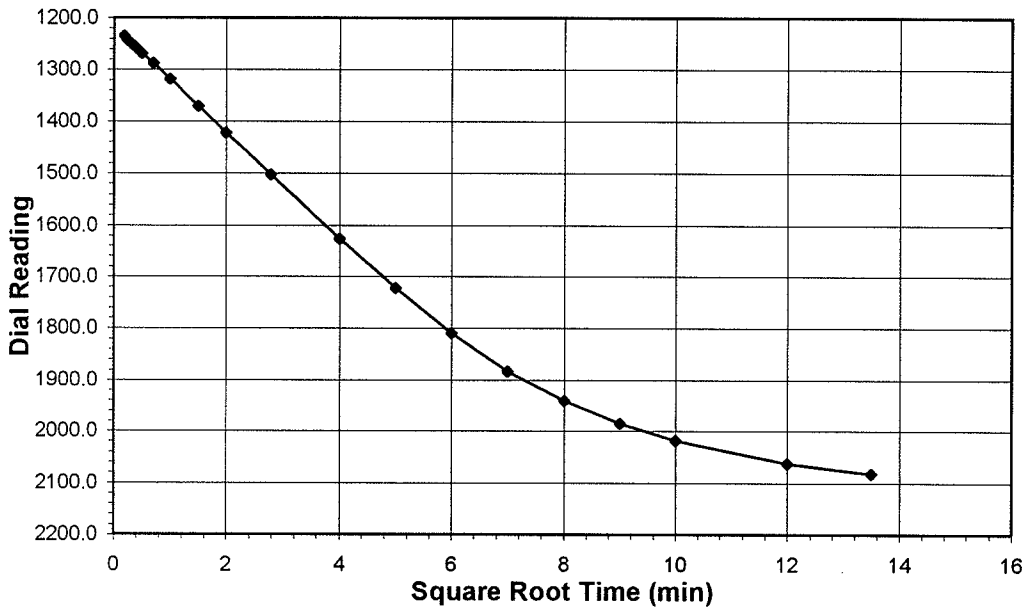


ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-90 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-14**

Boring No. **GT-106**
 Depth (ft) **32.6-32.8**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

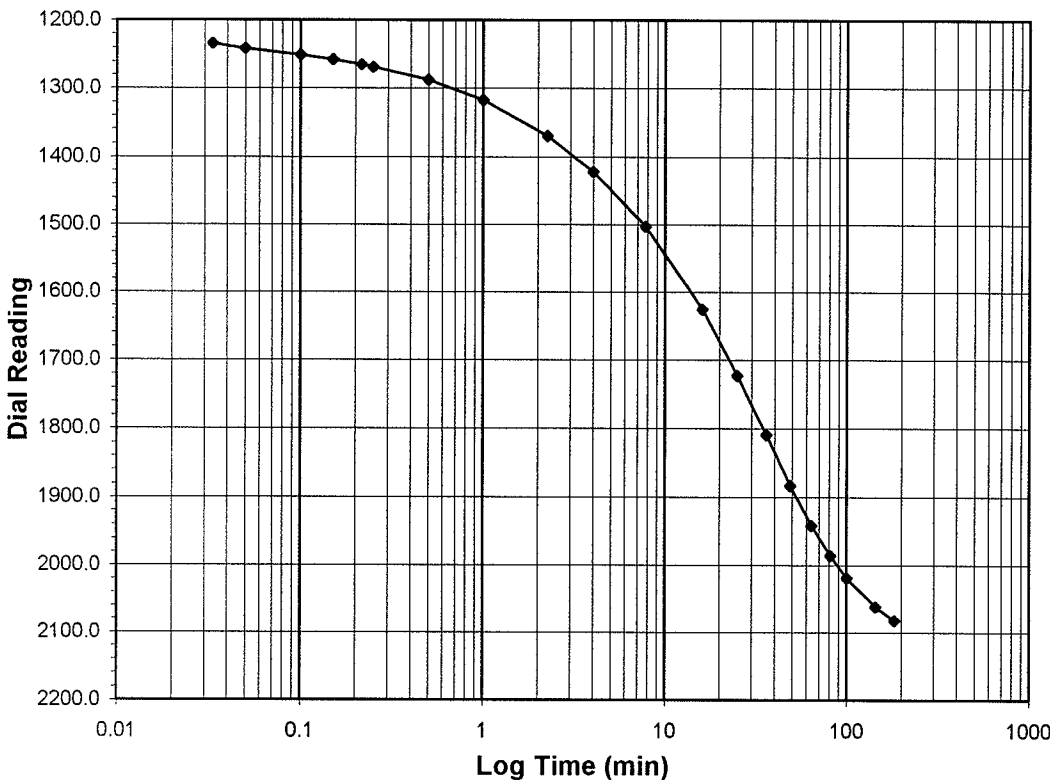
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 4.0-8.0
Final Reading (div) 2082.6
 Consolidometer No. **2**
 1 Division (in) **0.0001**

Start Date 10/25/05
Start Time 10:59:38

Elapsed Time (min)	Dial Reading (div)
Initial	1210.4
0.03	1234.1
0.05	1241.7
0.10	1251.0
0.15	1256.9
0.22	1264.9
0.25	1268.5
0.50	1287.8
1.00	1317.7
2.25	1370.5
4.00	1422.3
7.77	1502.3
16.00	1625.7
25.00	1722.6
36.00	1809.4
49.00	1883.0
64.00	1941.3
81.00	1985.5
100.02	2018.6
144.00	2062.0
181.97	2082.6



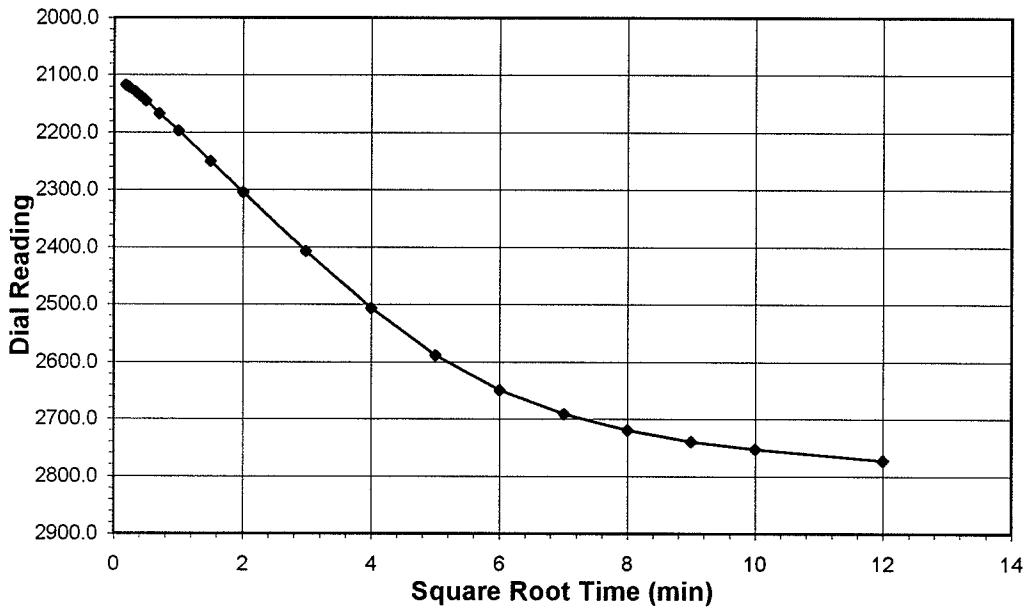
Tested By **TM** Date **10/25/05** Checked By **GU** Date **10/31/05**

ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-90 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-14**

Boring No. **GT-106**
 Depth (ft) **32.6-32.8**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

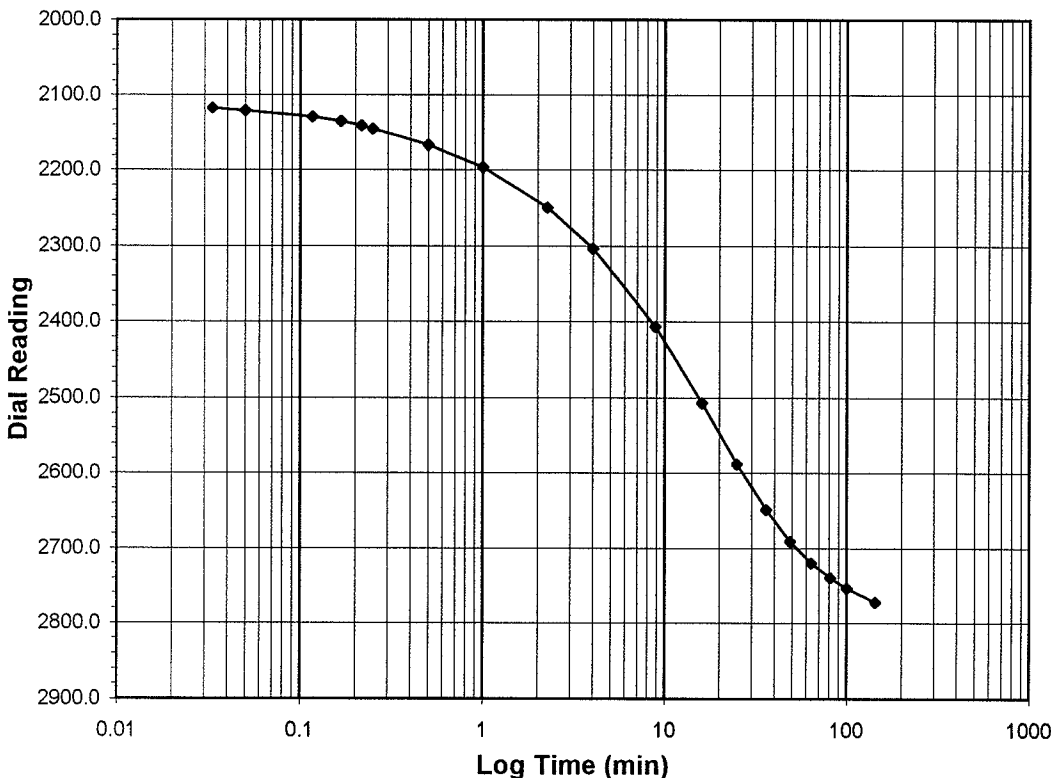
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 8.0-16.0
Final Reading (div) 2772.7
 Consolidometer No. **2**
 1 Division (in) **0.0001**

Start Date 10/25/05
Start Time 14:09:49

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	2082.6
0.03	2117.5
0.05	2121.0
0.12	2129.6
0.17	2135.6
0.22	2141.7
0.25	2145.3
0.50	2166.7
1.00	2196.3
2.25	2249.7
4.00	2303.6
8.87	2406.8
16.00	2506.4
25.00	2588.0
36.00	2649.0
49.02	2691.3
64.00	2719.7
81.00	2739.3
100.00	2753.3
144.00	2772.7



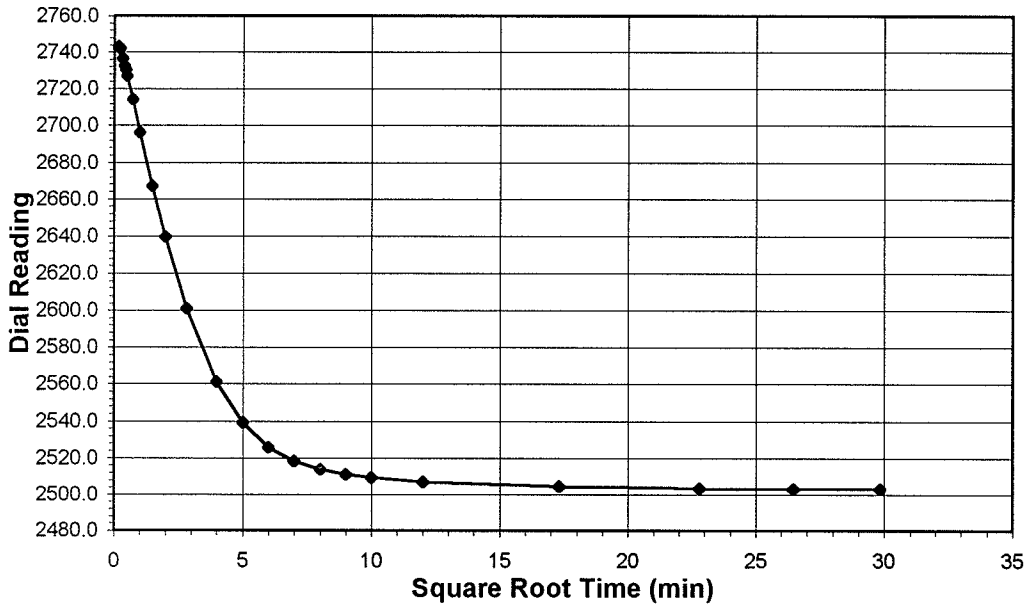
Tested By **TM** Date **10/25/05** Checked By **GU** Date **10/31/05**

ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-90 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-14**

Boring No. **GT-106**
 Depth (ft) **32.6-32.8**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

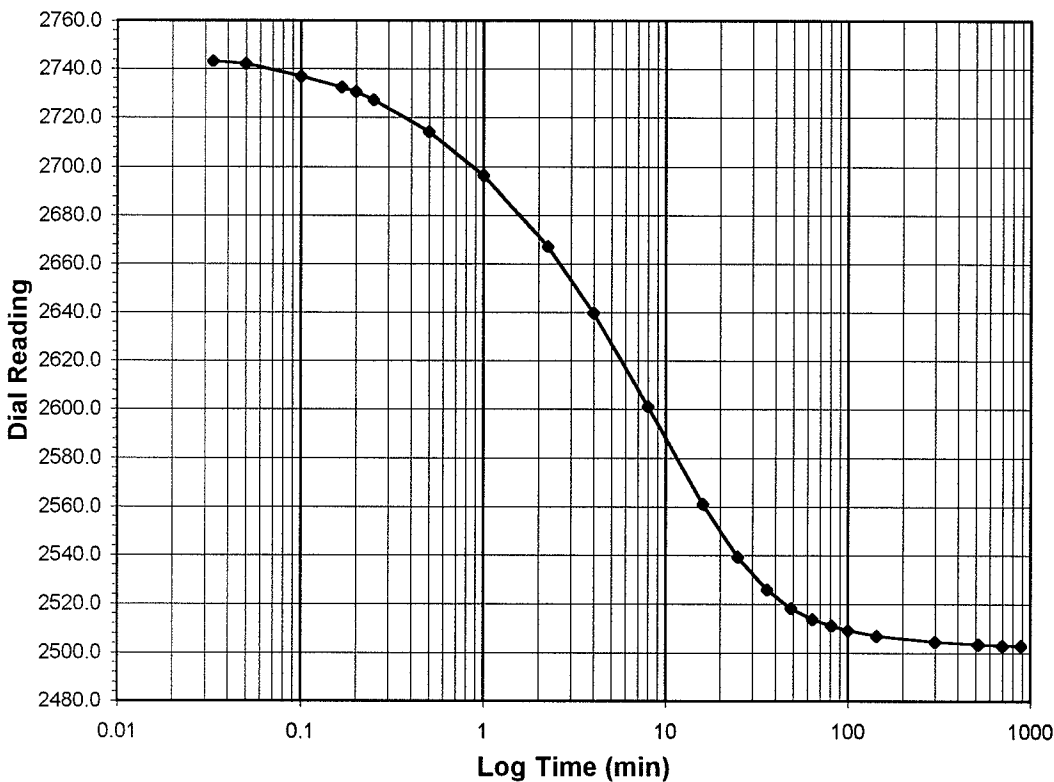
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) **16.0-4.0**
 Final Reading (div) **2502.9**
 Consolidometer No. **2**
 1 Division (in) **0.0001**

Start Date **10/25/05**
 Start Time **16:43:23**

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	2772.7
0.03	2743.1
0.05	2742.1
0.10	2736.7
0.17	2732.4
0.20	2730.5
0.25	2727.1
0.50	2714.2
1.00	2696.5
2.25	2667.1
4.00	2639.8
7.98	2601.1
16.00	2561.1
25.00	2539.1
36.00	2525.9
49.00	2518.2
64.00	2513.7
81.00	2511.0
100.00	2509.1
144.00	2506.9
300.00	2504.4
520.00	2503.4
700.00	2503.0
890.00	2502.9



Tested By **TM** Date **10/25/05** Checked By **GU** Date **10/31/05**

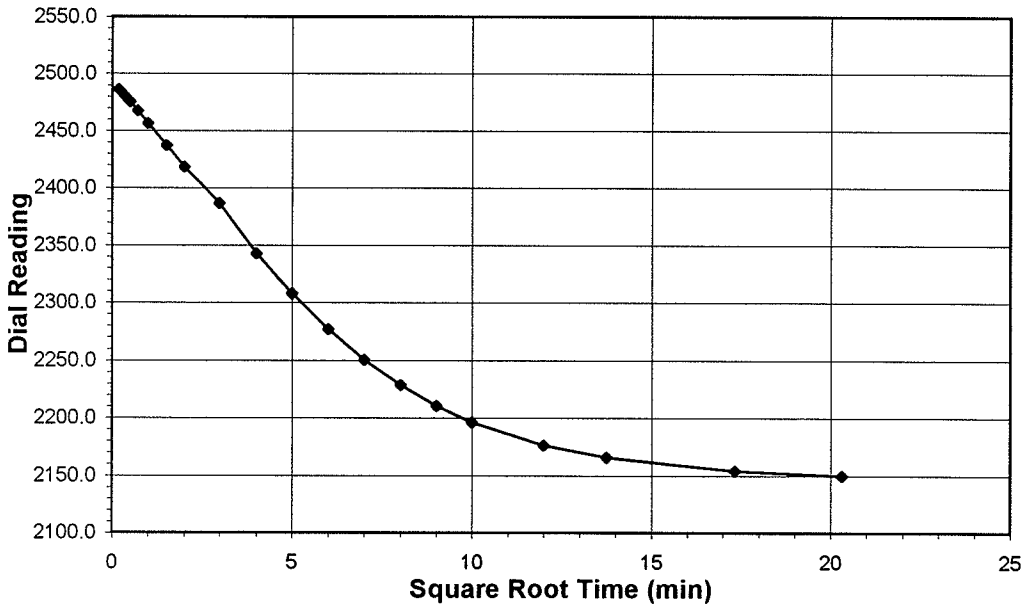
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-14**

Boring No. **GT-106**
 Depth (ft) **32.6-32.8**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

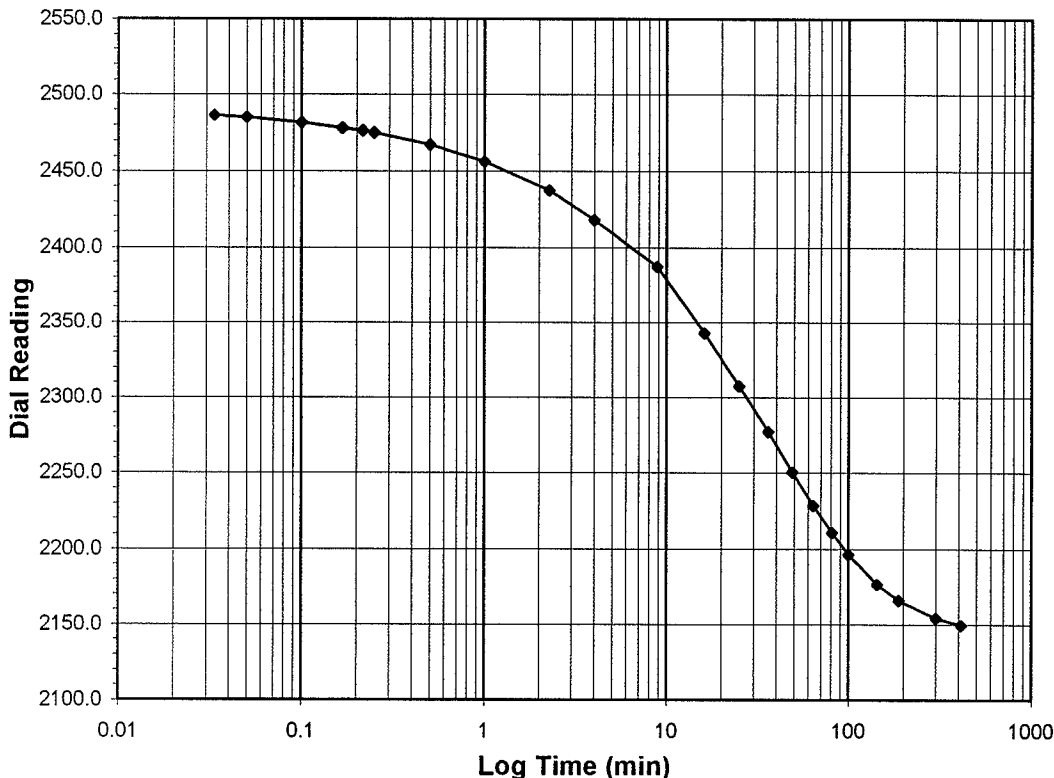
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 4.0-1.0
Final Reading (div) 2149.6
 Consolidometer No. **2**
 1 Division (in) **0.0001**

Start Date 10/26/05
Start Time 7:49:25

Elapsed Time (min)	Dial Reading (div)
Initial	2502.9
0.03	2486.2
0.05	2484.7
0.10	2481.3
0.17	2478.1
0.22	2476.6
0.25	2475.2
0.50	2467.4
1.00	2456.4
2.27	2437.5
4.00	2418.2
8.89	2387.1
16.00	2342.6
25.00	2307.8
36.00	2277.0
49.02	2250.4
64.00	2228.6
81.00	2210.6
100.00	2196.3
144.00	2176.5
189.02	2166.0
300.00	2154.1
412.80	2149.6



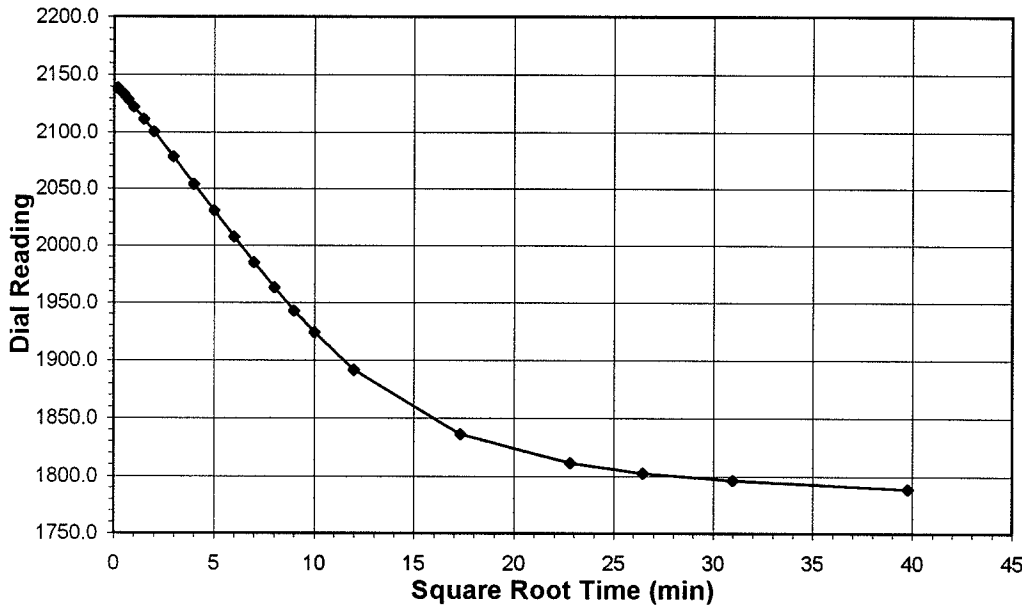
Tested By **TM** Date **10/26/05** Checked By **GU** Date **10/31/05**

ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-90 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-14**

Boring No. **GT-106**
 Depth (ft) **32.6-32.8**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

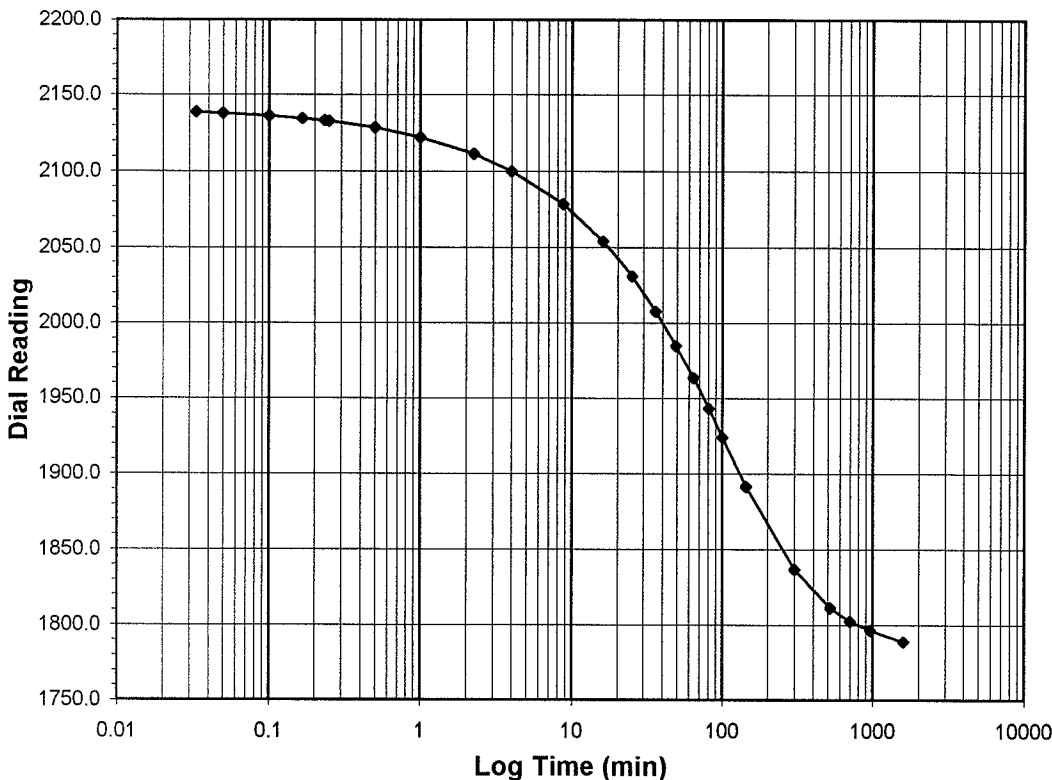
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 1.0-0.25
Final Reading (div) 1788.9
 Consolidometer No. **2**
 1 Division (in) **0.0001**

Start Date 10/26/05
Start Time 15:05:34

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	2149.6
0.03	2138.6
0.05	2137.8
0.10	2136.1
0.17	2134.4
0.23	2133.2
0.25	2132.9
0.50	2128.4
1.00	2122.3
2.25	2111.4
4.00	2100.3
8.73	2078.6
16.00	2054.0
25.00	2030.7
36.00	2007.5
49.00	1984.8
64.00	1963.5
81.00	1943.2
100.00	1924.2
144.00	1891.6
300.00	1836.5
520.00	1811.1
700.00	1802.5
960.00	1796.5
1582.20	1788.9

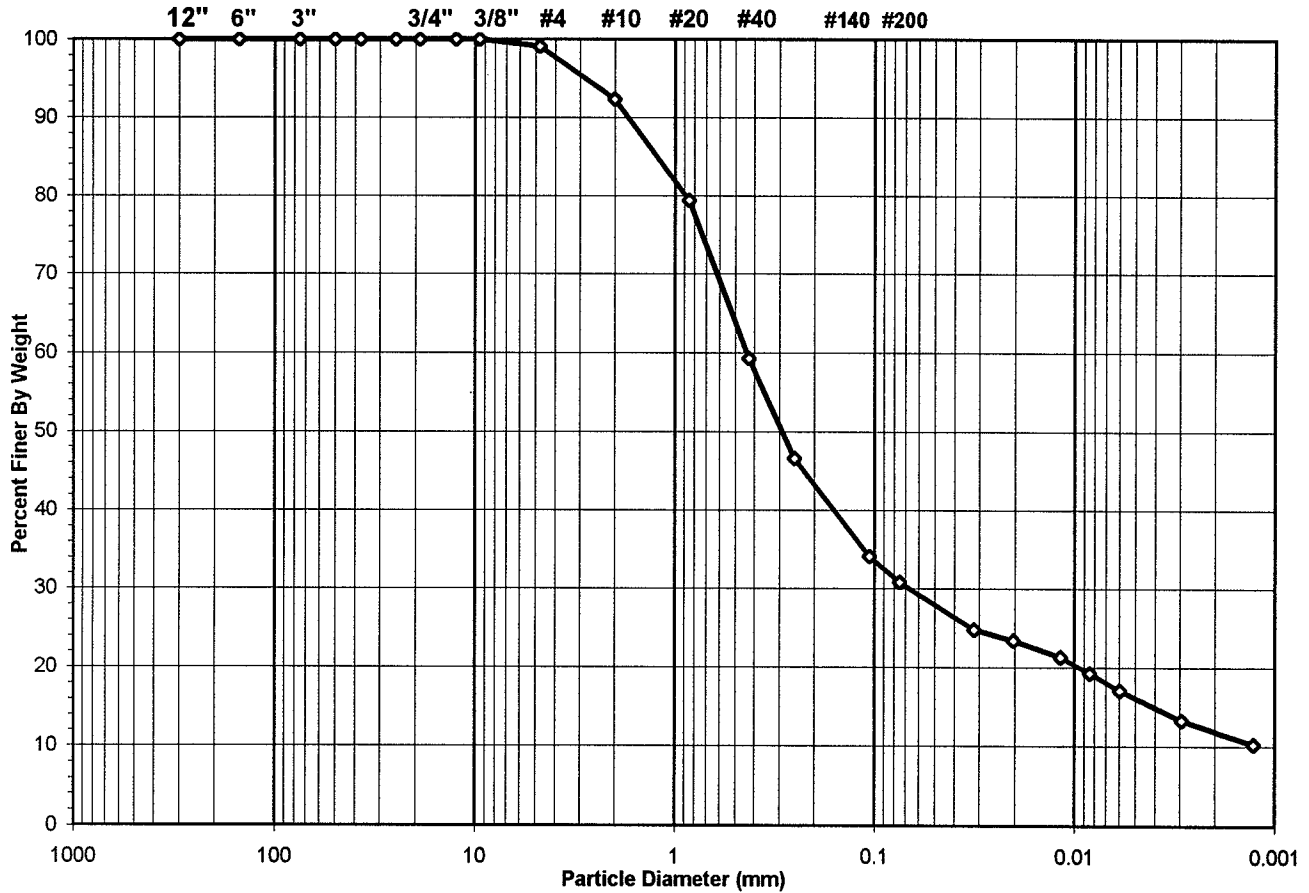


Tested By **TM** Date **10/26/05** Checked By **GU** Date **10/31/05**

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-108
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-01	Sample No.	BULK-2
Lab ID	2005-329-01-02	Soil Color	GRAY

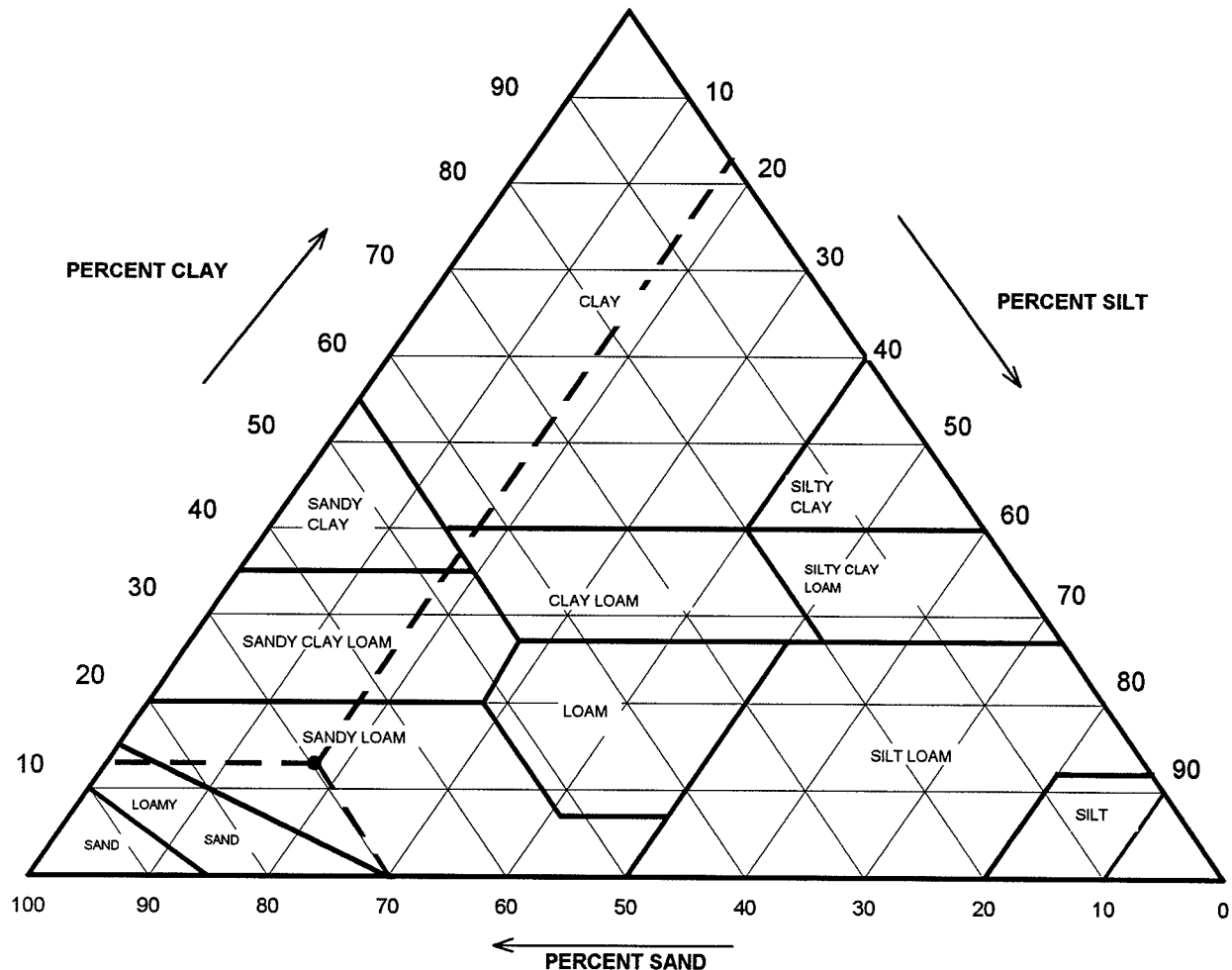
USCS USDA	SIEVE ANALYSIS			HYDROMETER	
	cobbles	gravel	sand	silt and clay fraction	
	cobbles	gravel	sand	silt	clay



USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	Gravel	0.89
#4 To #200	Sand	68.30
Finer Than #200	Silt & Clay	30.82
USCS Symbol	SC, TESTED	
USCS Classification	CLAYEY SAND	

USDA CLASSIFICATION CHART

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-108
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-01	Sample No.	BULK-2
Lab ID	2005-329-01-02	Soil Color	GRAY



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	7.68	0.00
2	92.32	<i>Sand</i>	64.37	69.72
0.05	27.95	<i>Silt</i>	16.03	17.36
0.002	11.92	<i>Clay</i>	11.92	12.91
USDA Classification		SANDY LOAM		



WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-108
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-01	Sample No.	BULK-2
Lab ID	2005-329-01-02	Soil Color	GRAY

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	1075	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	1298.20	Wgt. Tare + Wet Specimen (gm)	NA
Wgt. Tare + Dry Specimen (gm)	1263.50	Wgt. Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	97.83	Weight of Tare (gm)	NA
Weight of Water (gm)	34.70	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	1165.67	Weight of Dry Soil (gm)	NA
Moisture Content (%)	3.0	Moisture Content (%)	NA

Wet Weight - 3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	1165.67
Dry Weight - 3/4" Sample (gm)	806.46	Weight of minus #200 material (gm)	359.21
Wet Weight + 3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	806.46
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.00	0.00	100.00	100.00
6"	150	0.00	0.00	0.00	100.00	100.00
3"	75	0.00	0.00	0.00	100.00	100.00
2"	50	0.00	0.00	0.00	100.00	100.00
1 1/2"	37.5	0.00	0.00	0.00	100.00	100.00
1"	25.0	0.00	0.00	0.00	100.00	100.00
3/4"	19.0	0.00	0.00	0.00	100.00	100.00
1/2"	12.5	0.00	0.00	0.00	100.00	100.00
3/8"	9.50	0.00	0.00	0.00	100.00	100.00
#4	4.75	10.36	0.89	0.89	99.11	99.11
#10	2.00	79.11	6.79	7.68	92.32	92.32
#20	0.85	150.36	12.90	20.57	79.43	79.43
#40	0.425	235.21	20.18	40.75	59.25	59.25
#60	0.250	147.68	12.67	53.42	46.58	46.58
#140	0.106	145.28	12.46	65.88	34.12	34.12
#200	0.075	38.46	3.30	69.18	30.82	30.82
Pan	-	359.21	30.82	100.00	-	-

Tested By **BE** Date **10/11/05** Checked By **KPB** Date **10-17-05**

HYDROMETER ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-108
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-01	Sample No.	BULK-2
Lab ID	2005-329-01-02	Soil Color	GRAY

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)	
0	NA	NA	NA	NA	NA	NA	NA	NA	
2	23.5	24.0	24.1	6.04	18.0	80.4	0.01281	0.0318	24.8
5		23.0	24.1	6.04	17.0	75.9	0.01281	0.0203	23.4
15		21.5	24.1	6.04	15.5	69.2	0.01281	0.0118	21.3
30		20.0	24.1	6.04	14.0	62.5	0.01281	0.0084	19.3
61		18.5	24.0	6.07	12.4	55.6	0.01282	0.0060	17.1
266		16.0	23.3	6.33	9.7	43.3	0.01293	0.0029	13.3
1440		14.0	22.7	6.54	7.5	33.4	0.01302	0.0013	10.3

Soil Specimen Data	Other Corrections	
Tare No.	651	
Tare + Dry Material (gm)	123.77	
Weight of Tare (gm)	96.64	
Weight of Deflocculant (gm)	5.0	
Weight of Dry Material (gm)	22.13	
	a - Factor	0.99
	Percent Finer than # 200	30.82
	Specific Gravity	2.7 Assumed

Note: Hydrometer test is performed on - # 200 sieve material.

Tested By TO Date 10/12/05 Checked By *YKB* Date *10-17-05*

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-108
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-01	Sample No.	BULK-2
Lab ID	2005-329-01-02	Soil Description	GRAY LEAN CLAY (Minus No. 40 sieve material, Airdried)

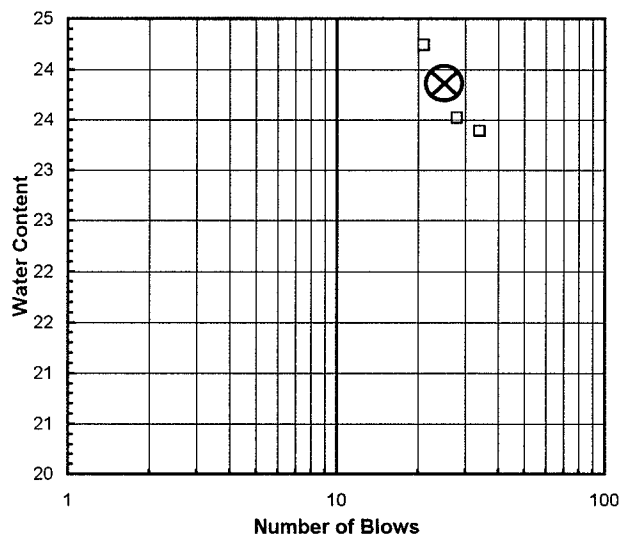
Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description.

Liquid Limit Test	1	2	3	
Tare Number	230	253	254	M
Wt. of Tare & WS (gm)	44.51	42.54	44.59	U
Wt. of Tare & DS (gm)	39.54	37.84	39.48	L
Wt. of Tare (gm)	18.29	17.86	18.40	T
Wt. of Water (gm)	5.0	4.7	5.1	I
Wt. of DS (gm)	21.3	20.0	21.1	P
Moisture Content (%)	23.4	23.5	24.2	O
Number of Blows	34	28	21	I
				N
				T

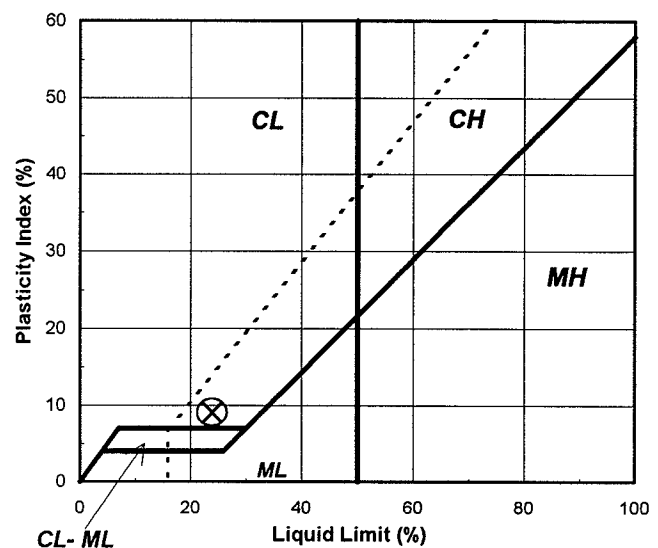
Plastic Limit Test	1	2	Range	Test Results
Tare Number	257	261		Liquid Limit (%) 24
Wt. of Tare & WS (gm)	23.53	23.00		Plastic Limit (%) 15
Wt. of Tare & DS (gm)	22.71	22.22		Plasticity Index (%) 9
Wt. of Tare (gm)	17.21	16.93		USCS Symbol CL
Wt. of Water (gm)	0.8	0.8		
Wt. of DS (gm)	5.5	5.3		
Moisture Content (%)	14.9	14.7	0.2	

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve



Plasticity Chart



Tested By BS Date 10/18/05 Checked By YB Date 10-19-05

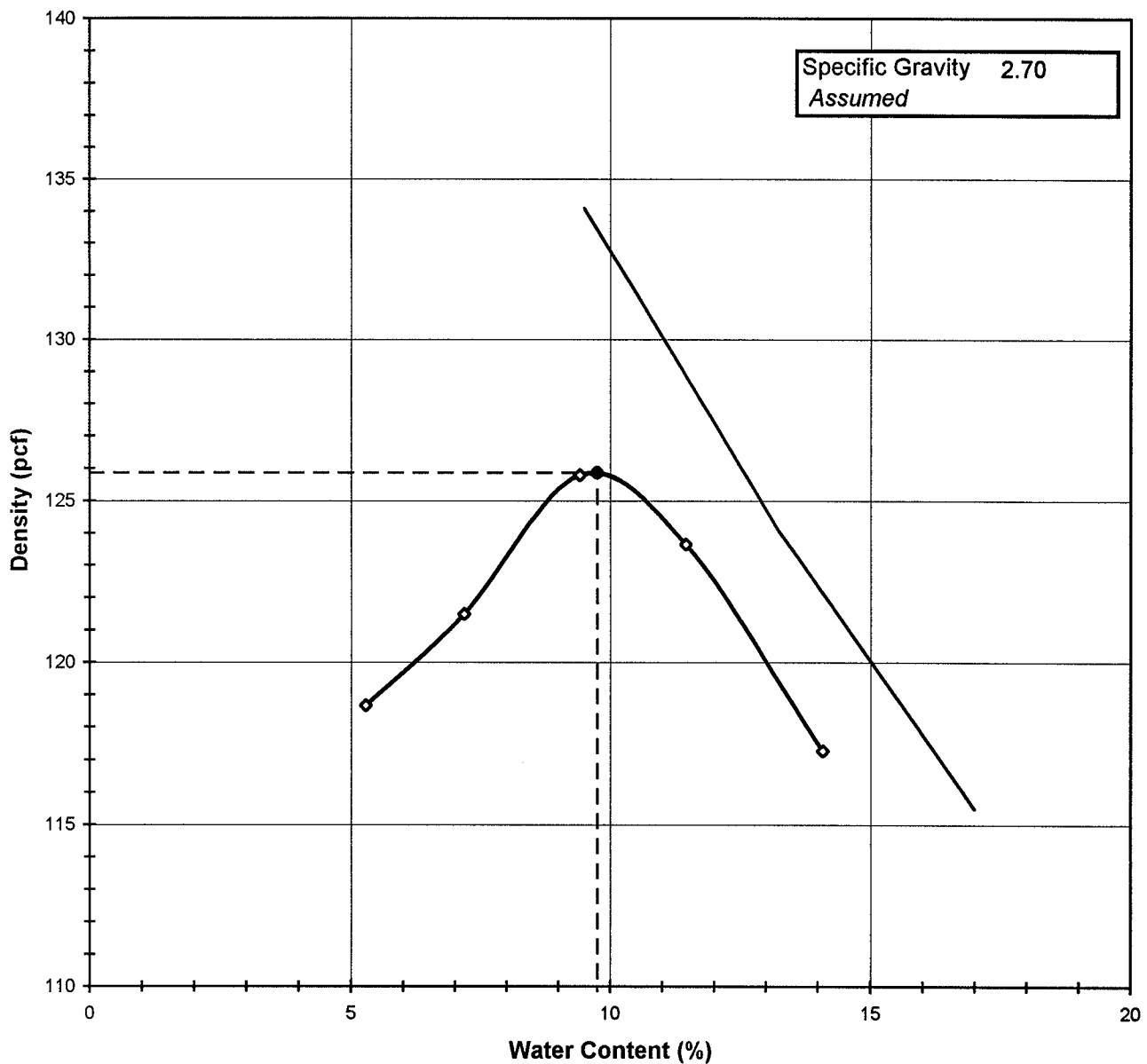
page 1 of 1 DCN: CT-S4B DATE: 10/8/01 REVISION: 2

MOISTURE DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-108
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-01	Sample No.	BULK-2
Lab ID	2005-329-01-02	Test Method	STANDARD
Visual Description	GRAY CLAY WITH ROCK FRAGMENTS		

Optimum Water Content 9.8
Maximum Dry Density 125.9



Tested By MF Date 10/12/05 Checked By *MB* Date 10-14-05



MOISTURE - DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-108
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-01	Sample No.	BULK-2
Lab ID	2005-329-01-02		

Visual Description GRAY CLAY WITH ROCK FRAGMENTS

Total Weight of the Sample (gm)	NA
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	NA
Percent Retained on #4	NA
Oversize Material	Not included
Procedure Used	C

TestType	STANDARD	
Rammer Weight (lbs)		5.5
Rammer Drop (in)		12
Rammer Type	MECHANICAL	
Machine ID	G	441
Mold ID	G	621
Mold diameter		6"
Weight of the Mold		6440
Volume of the Mold(cc)		2129

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	10703	10883	11136	11142	11005
Wt. of Mold (gm)	6440	6440	6440	6440	6440
Wt. of WS	4263	4443	4696	4702	4565
Mold Volume (cc)	2129	2129	2129	2129	2129

Moisture Content / Density

	872	891	888	886	559
Tare Number	872	891	888	886	559
Wt. of Tare & WS (gm)	451.50	472.60	507.10	598.50	506.80
Wt. of Tare & DS (gm)	434.36	448.35	472.98	548.26	454.49
Wt. of Tare (gm)	110.52	110.48	110.53	109.80	83.40
Wt. of Water (gm)	17.14	24.25	34.12	50.24	52.31
Wt. of DS (gm)	323.84	337.87	362.45	438.46	371.09

Wet Density (gm/cc)	2.00	2.09	2.21	2.21	2.14
Wet Density (pcf)	124.9	130.2	137.6	137.8	133.8
Moisture Content (%)	5.3	7.2	9.4	11.5	14.1
Dry Density (pcf)	118.7	121.5	125.8	123.6	117.3

Zero Air Voids

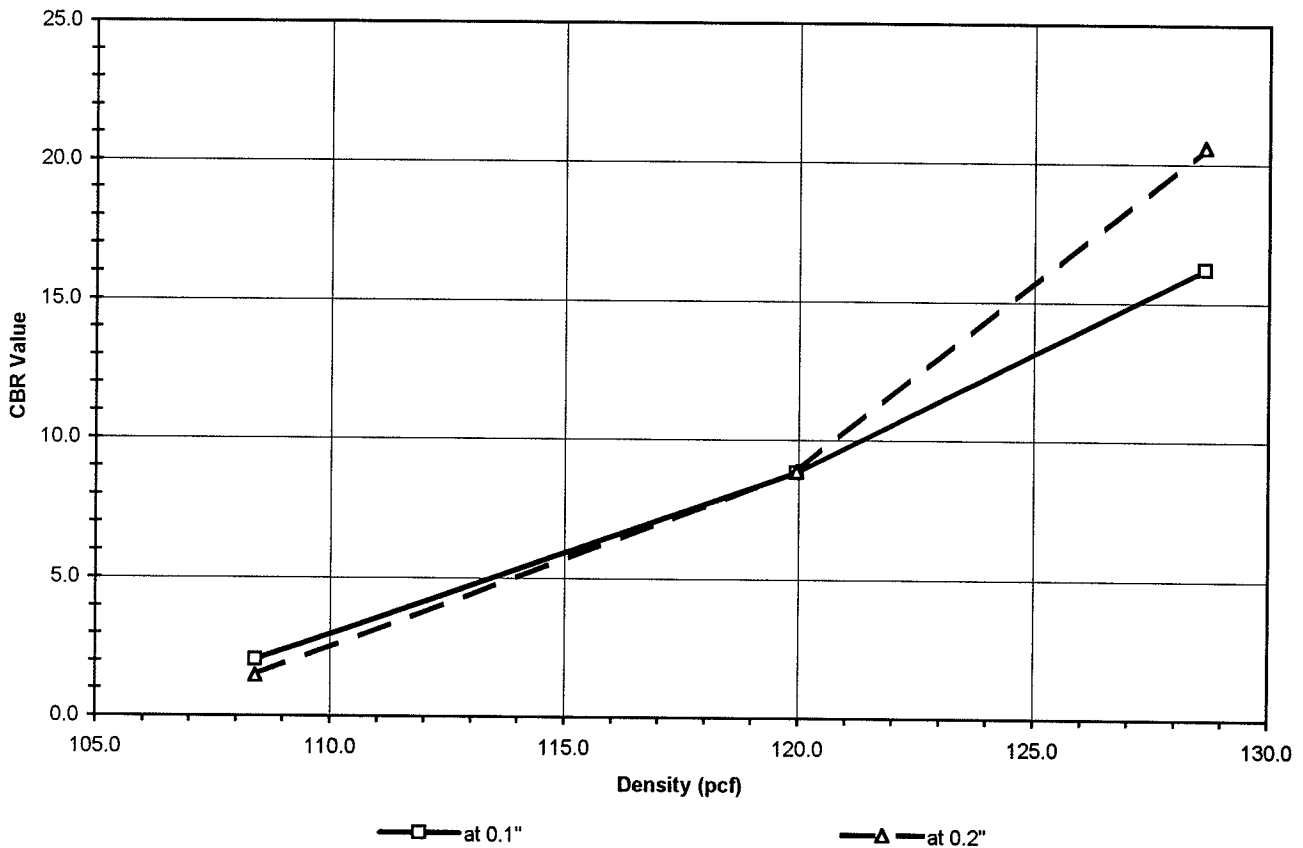
Moisture Content (%)	9.5	13.2	17.0
Dry Unit Weight (pcf)	134.1	124.1	115.5

Tested By MF Date 10/12/05 Checked By *YFB* Date 10-14-05

3 POINTS CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-108
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	NA
Project No.	2005-329-01	Sample No.	BULK-2
Lab ID	2005-329-01-02	Visual Description	GRAY CLAY WITH ROCK FRAGMENTS

Point No.	1	2	3
Blows per Layer	10	25	65
Dry Density (pcf)	108.4	120.0	128.6
Dry Density (g/cc)	1.74	1.92	2.06
Corrected Penetration Stress @ 0.1"	20.33	88.33	162.00
Corrected Penetration Stress @ 0.2"	22.00	133.33	309.00
Corrected CBR Values @ 0.1"	2.03	8.83	16.20
Corrected CBR Values @ 0.2"	1.47	8.89	20.60

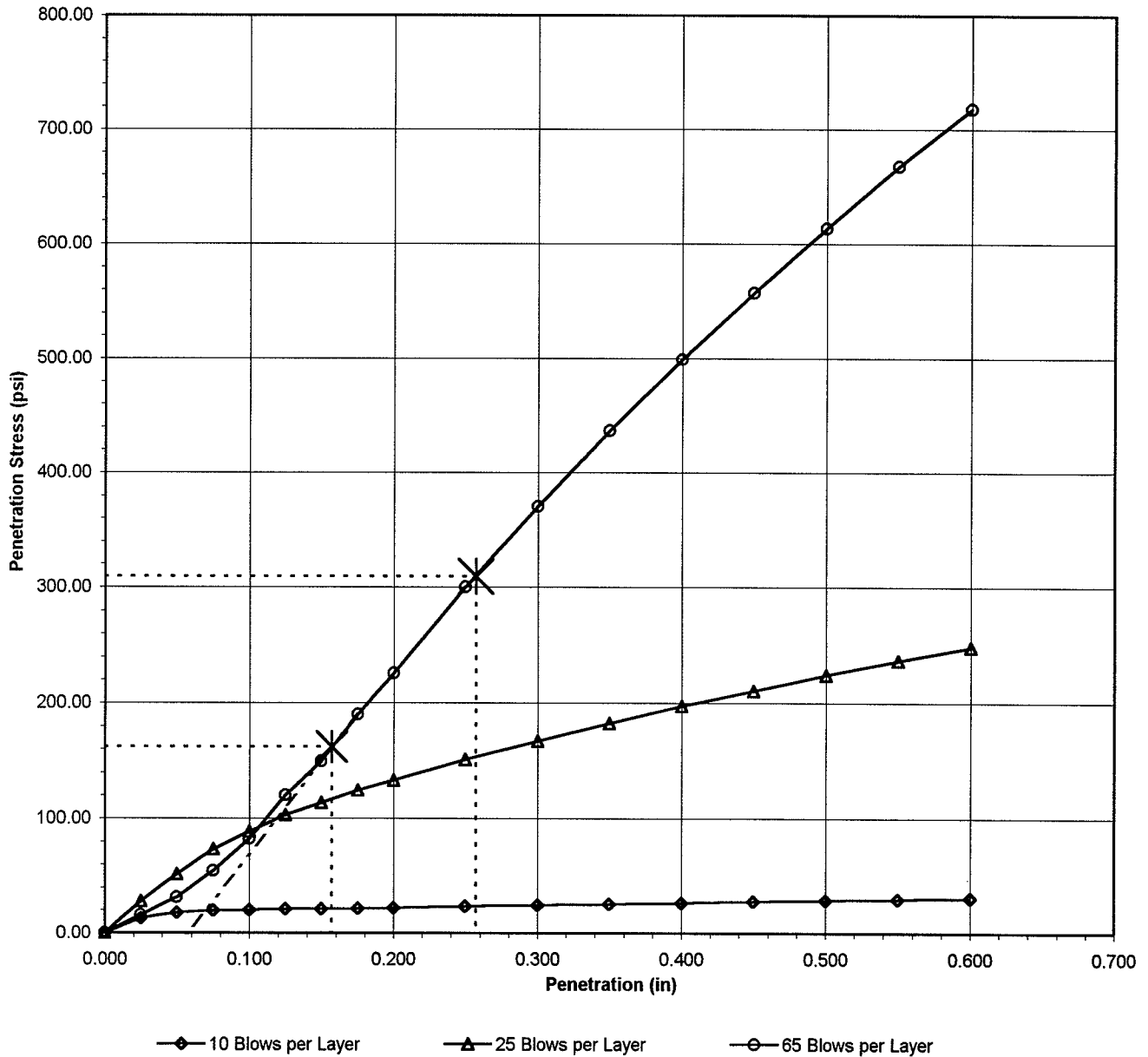


Tested By JP Date 10/20/05 Approved By DB Date 10/26/05

3 POINTS CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-108
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	NA
Project No.	2005-329-01	Sample No.	BULK-2
Lab ID	2005-329-01-02	Visual Description	GRAY CLAY WITH ROCK FRAGMENTS

Penetration Stress vs. Penetration



Tested By JP Date 10/20/05 Approved By DB Date 10/26/05

3 POINT CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-108
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	NA
Project No.	2005-329-01	Sample No.	BULK-2
Lab ID	2005-329-01-02	Visual Description	GRAY CLAY WITH ROCK FRAGMENTS

Test Type	STANDARD			
Molding Method	C	Density	Before	After
Mold ID	1085	Measurement	Soaking	Soaking
Wt. of Mold (gm.)	7267	Wt. Mold & WS (gm.)	11293	11571
Mold Volume (cc)	2124	Wt. WS (gm.)	4026	4304
Surcharge (lbs.)	15	Sample Volume (cc)	2124	2124
Piston Area (in ²)	3	Wet Density (gm./cc)	1.90	2.03
Sample Height	4.58	Wet Density (pcf)	118.3	126.4
Sample Conditions	Soaked			
Blows per Layer	10	Dry Density (pcf)	108.4	110.7
		Dry Density (gm./cc)	1.74	1.77

Water Contents	As Rec'd	Beginning Compaction	After Compaction	Before Soaking	After Soaking	Top 1" After Soak
Tare No.	NA	567	566	566	2470	577
Wt. of T+WS (gm.)	NA	429.84	385.65	385.65	752.61	447.31
Wt. of T+DS (gm.)	NA	400.56	360.54	360.54	670.8	399.45
Wt of Tare (gm.)	NA	84.58	84.71	84.71	93.62	84.57
Moisture Content(%)	NA	9.3	9.1	9.1	14.2	15.2

Piston Displacement (in.)	Load (lbs.)	Penetration Stress (psi.)	Swell Measurement		
			Elapsed Time (hrs)	Dial Gauge (Div)	Percent Swell
0	0	0.0			
0.025	39	13.0			
0.050	53	17.7			
0.075	59	19.7			
0.100	61	20.3	0.00	287	0.00%
0.125	63	21.0	0.08	284	-0.07%
0.150	64	21.3	0.17	285	-0.04%
0.175	65	21.7	0.25	285	-0.04%
0.200	66	22.0	0.33	285	-0.04%
0.250	70	23.3	27.75	285	-0.04%
0.300	73	24.3	50.50	287	0.00%
0.350	76	25.3	66.50	287	0.00%
0.400	80	26.7	88.00	287	0.00%
0.450	83	27.7	89.67	287	0.00%
0.500	86	28.7			
0.550	90	30.0			
0.600	92	30.7			

1Division = 0.001 in.

Tested By JP Date 10/20/05 Checked By YKA Date 10-25-05

3 POINT CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-108
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	NA
Project No.	2005-329-01	Sample No.	BULK-2
Lab ID	2005-329-01-02	Visual Description	GRAY CLAY WITH ROCK FRAGMENTS

Test Type	STANDARD			
Molding Method	C	Density	Before	After
Mold ID	17	Measurement	Soaking	Soaking
Wt. of Mold (gm.)	7193	Wt. Mold & WS (gm.)	11659	11791
Mold Volume (cc)	2124	Wt. WS (gm.)	4466	4598
Surcharge (lbs.)	15	Sample Volume (cc)	2124	2136
Piston Area (in ²)	3	Wet Density (gm./cc)	2.10	2.15
Sample Height	4.58	Wet Density (pcf)	131.2	134.3
Sample Conditions	Soaked			
Blows per Layer	25	Dry Density (pcf)	120.0	120.5
		Dry Density (gm./cc)	1.92	1.93

Water Contents	As Rec'd	Beginning Compaction	After Compaction	Before Soaking	After Soaking	Top 1" After Soak
Tare No.	NA	1710	606	606	682	604
Wt. of T+WS (gm.)	NA	411.2	384.37	384.37	902.9	407.94
Wt. of T+DS (gm.)	NA	383.31	358.77	358.77	820	372.9
Wt of Tare (gm.)	NA	82.66	85.57	85.57	97.78	87.14
Moisture Content(%)	NA	9.3	9.4	9.4	11.5	12.3

Piston Displacement (in.)	Load (lbs.)	Penetration Stress (psi.)	Swell Measurement		
			Elapsed Time (hrs)	Dial Gauge (Div)	Percent Swell
0	0	0.0			
0.025	84	28.0			
0.050	155	51.7			
0.075	219	73.0			
0.100	265	88.3	0.00	434	0.00%
0.125	308	102.7	0.08	434	0.00%
0.150	340	113.3	0.17	435	0.02%
0.175	373	124.3	0.25	436	0.04%
0.200	400	133.3	0.33	438	0.09%
0.250	453	151.0	27.75	438	0.09%
0.300	501	167.0	50.50	439	0.11%
0.350	547	182.3	66.50	460	0.57%
0.400	591	197.0	88.00	460	0.57%
0.450	631	210.3	89.67	460	0.57%
0.500	672	224.0			
0.550	710	236.7			
0.600	744	248.0			

1Division = 0.001 in.

Tested By JP Date 10/20/05 Checked By YJR Date 10-26-05

3 POINT CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-108
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	NA
Project No.	2005-329-01	Sample No.	BULK-2
Lab ID	2005-329-01-02	Visual Description	GRAY CLAY WITH ROCK FRAGMENTS

Test Type	STANDARD			
Molding Method	C	Density	Before	After
Mold ID	A	Measurement	Soaking	Soaking
Wt. of Mold (gm.)	7025	Wt. Mold & WS (gm.)	11813	11861
Mold Volume (cc)	2124	Wt. WS (gm.)	4788	4836
Surcharge (lbs.)	15	Sample Volume (cc)	2124	2125
Piston Area (in ²)	3	Wet Density (gm./cc)	2.25	2.28
Sample Height	4.58	Wet Density (pcf)	140.7	142.0
Sample Conditions	Soaked			
Blows per Layer	65	Dry Density (pcf)	128.6	129.3
		Dry Density (gm./cc)	2.06	2.07

Water Contents	As Rec'd	Beginning Compaction	After Compaction	Before Soaking	After Soaking	Top 1" After Soak
Tare No.	NA	1122	628	628	514	546
Wt. of T+WS (gm.)	NA	457.5	576.3	576.3	738.1	328.78
Wt. of T+DS (gm.)	NA	425.69	534.3	534.3	680.9	305.48
Wt of Tare (gm.)	NA	84.42	85.38	85.38	96.81	85.69
Moisture Content(%)	NA	9.3	9.4	9.4	9.8	10.6

Piston Displacement (in.)	Load (lbs.)	Penetration Stress (psi.)	Swell Measurement		
			Elapsed Time (hrs)	Dial Gauge (Div)	Percent Swell
0	0	0.0			
0.025	48	16.0			
0.050	94	31.3			
0.075	163	54.3			
0.100	246	82.0	0.00	561	0.00%
0.125	360	120.0	0.08	562	0.02%
0.150	449	149.7	0.17	562	0.02%
0.175	570	190.0	0.25	562	0.02%
0.200	676	225.3	0.33	562	0.02%
0.250	900	300.0	27.75	564	0.07%
0.300	1110	370.0	50.50	564	0.07%
0.350	1310	436.7	66.50	564	0.07%
0.400	1497	499.0	88.00	564	0.07%
0.450	1672	557.3	89.67	564	0.07%
0.500	1840	613.3			
0.550	2002	667.3			
0.600	2154	718.0			

1Division = 0.001 in.

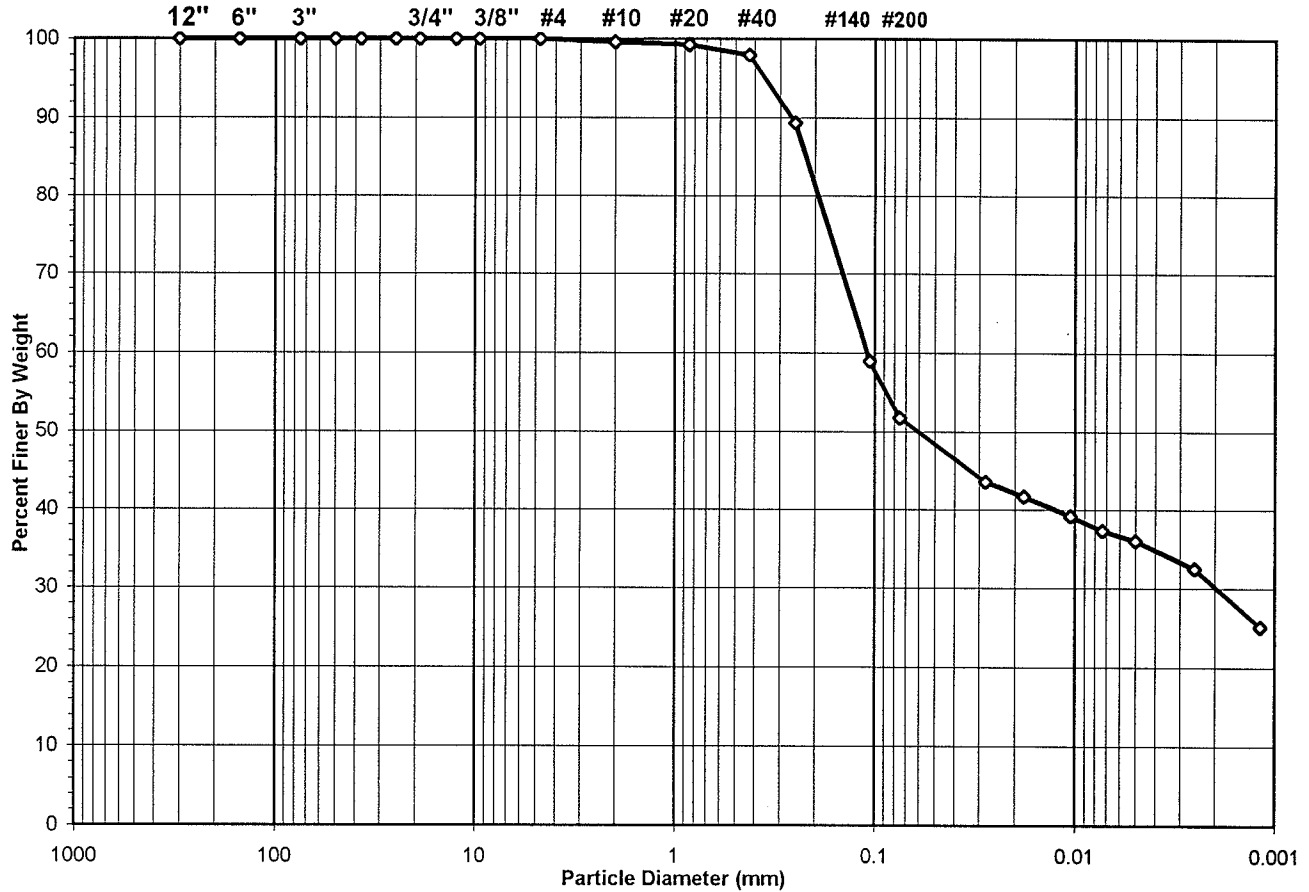
Tested By JP Date 10/20/05 Checked By YKB Date 10-25-05



SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK AND LEE	Boring No.	GT-112
Client Reference	GE Processing Facility 20430.011	Depth (ft)	2-4
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-03	Soil Color	GRAY

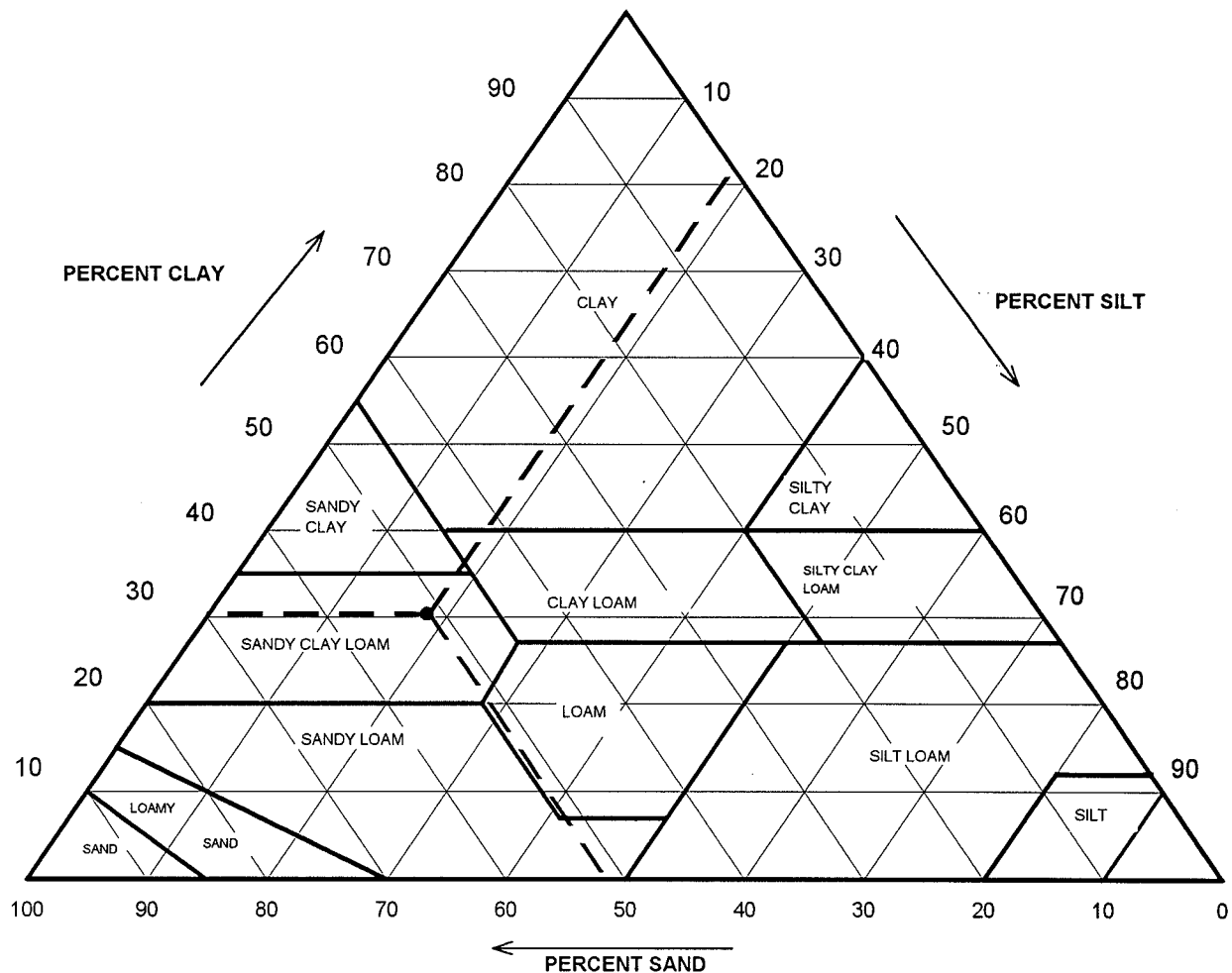
USCS	SIEVE ANALYSIS			HYDROMETER	
	cobbles	gravel	sand	silt and clay fraction	
USDA	cobbles	gravel	sand	silt	clay



USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	Gravel	0.00
#4 To #200	Sand	48.24
Finer Than #200	Silt & Clay	51.76
USCS Symbol	cl, ASSUMED	
USCS Classification	SANDY LEAN CLAY	

USDA CLASSIFICATION CHART

Client	BLASLAND, BOUCK AND LEE	Boring No.	GT-112
Client Reference	GE Processing Facility 20430.011	Depth (ft)	2-4
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-03	Soil Color	GRAY



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.41	0.00
2	99.59	<i>Sand</i>	51.19	51.40
0.05	48.40	<i>Silt</i>	18.15	18.22
0.002	30.25	<i>Clay</i>	30.25	30.38
		USDA Classification	SANDY CLAY LOAM	



WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK AND LEE	Boring No.	GT-112
Client Reference	GE Processing Facility 20430.011	Depth (ft)	2-4
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-03	Soil Color	GRAY

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	2500	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	470.30	Wgt. Tare + Wet Specimen (gm)	NA
Wgt. Tare + Dry Specimen (gm)	388.16	Wgt. Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	97.46	Weight of Tare (gm)	NA
Weight of Water (gm)	82.14	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	290.70	Weight of Dry Soil (gm)	NA
Moisture Content (%)	28.3	Moisture Content (%)	NA

Wet Weight - 3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	290.70
Dry Weight - 3/4" Sample (gm)	140.23	Weight of minus #200 material (gm)	150.47
Wet Weight + 3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	140.23
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.00	0.00	100.00	100.00
6"	150	0.00	0.00	0.00	100.00	100.00
3"	75	0.00	0.00	0.00	100.00	100.00
2"	50	0.00	0.00	0.00	100.00	100.00
1 1/2"	37.5	0.00	0.00	0.00	100.00	100.00
1"	25.0	0.00	0.00	0.00	100.00	100.00
3/4"	19.0	0.00	0.00	0.00	100.00	100.00
1/2"	12.5	0.00	0.00	0.00	100.00	100.00
3/8"	9.50	0.00	0.00	0.00	100.00	100.00
#4	4.75	0.00	0.00	0.00	100.00	100.00
#10	2.00	1.18	0.41	0.41	99.59	99.59
#20	0.85	1.04	0.36	0.76	99.24	99.24
#40	0.425	3.62	1.25	2.01	97.99	97.99
#60	0.250	25.13	8.64	10.65	89.35	89.35
#140	0.106	88.45	30.43	41.08	58.92	58.92
#200	0.075	20.81	7.16	48.24	51.76	51.76
Pan	-	150.47	51.76	100.00	-	-

Tested By **BE** Date **10/6/05** Checked By **YKB** Date **10-11-05**

HYDROMETER ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK AND LEE	Boring No.	GT-112
Client Reference	GE Processing Facility 20430.011	Depth (ft)	2-4
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-03	Soil Color	GRAY

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)	
0	NA	NA	NA	NA	NA	NA	NA	NA	
2	41.5	41.0	24.1	6.04	35.0	84.2	0.01281	0.0280	43.6
5		39.5	24.1	6.04	33.5	80.6	0.01281	0.0179	41.7
15		37.5	24.1	6.04	31.5	75.8	0.01281	0.0105	39.2
32		36.0	24.1	6.04	30.0	72.2	0.01281	0.0073	37.4
69		35.0	24.0	6.07	28.9	69.7	0.01282	0.0050	36.1
287		32.5	23.1	6.40	26.1	62.9	0.01296	0.0025	32.6
1440		26.5	23.2	6.36	20.1	48.5	0.01294	0.0012	25.1

Soil Specimen Data		Other Corrections	
Tare No.	705		
Tare + Dry Material (gm)	147.83	a - Factor	0.99
Weight of Tare (gm)	101.74		
Weight of Deflocculant (gm)	5.0	Percent Finer than # 200	51.76
Weight of Dry Material (gm)	41.09		
		Specific Gravity	2.7 Assumed

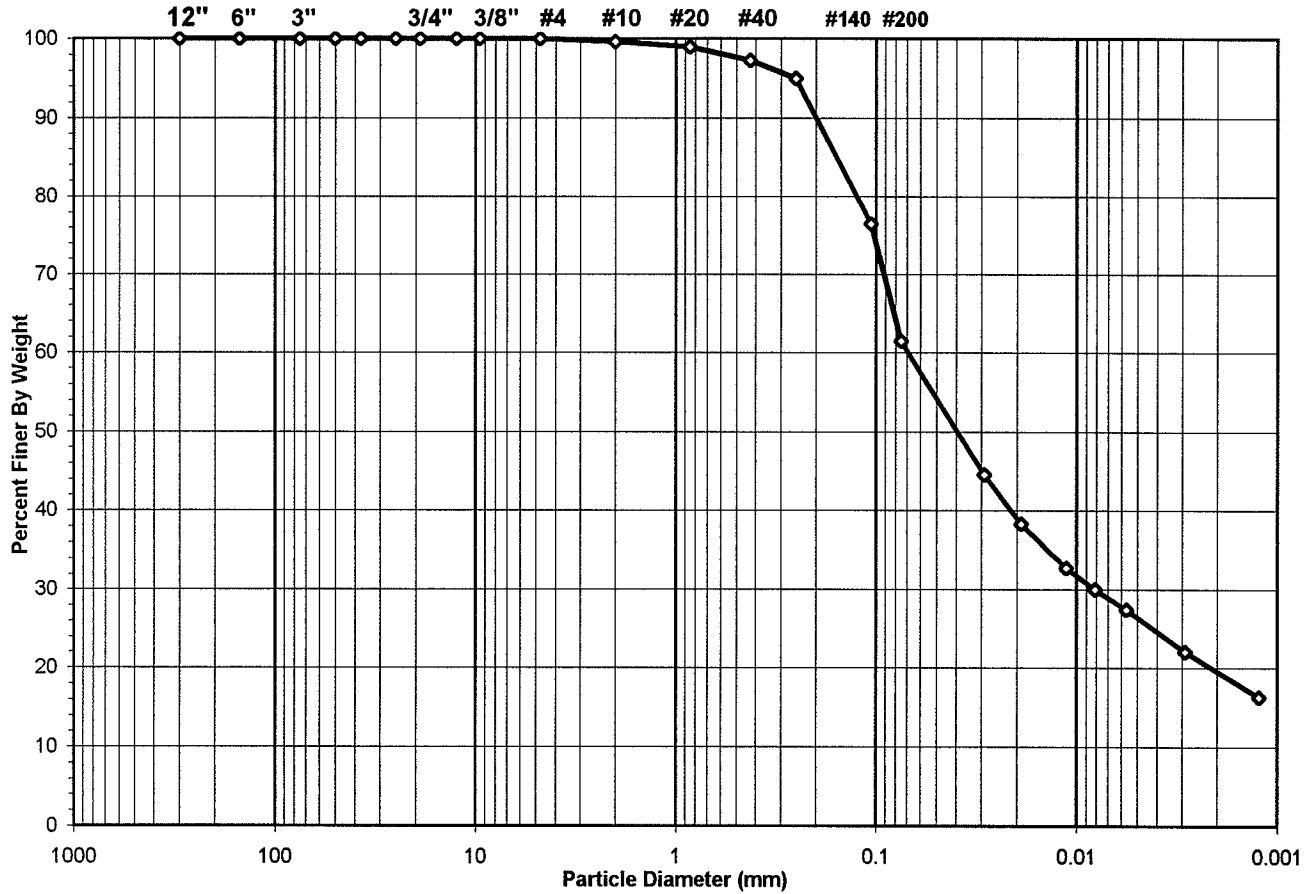
Note: Hydrometer test is performed on - # 200 sieve material.

Tested By TO Date 10/5/05 Checked By *YKB* Date 10-11-05

SIEVE AND HYDROMETER ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-112
Client Reference	GE Processing Facility 20430.011	Depth (ft)	6-8
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-04	Soil Color	GRAY

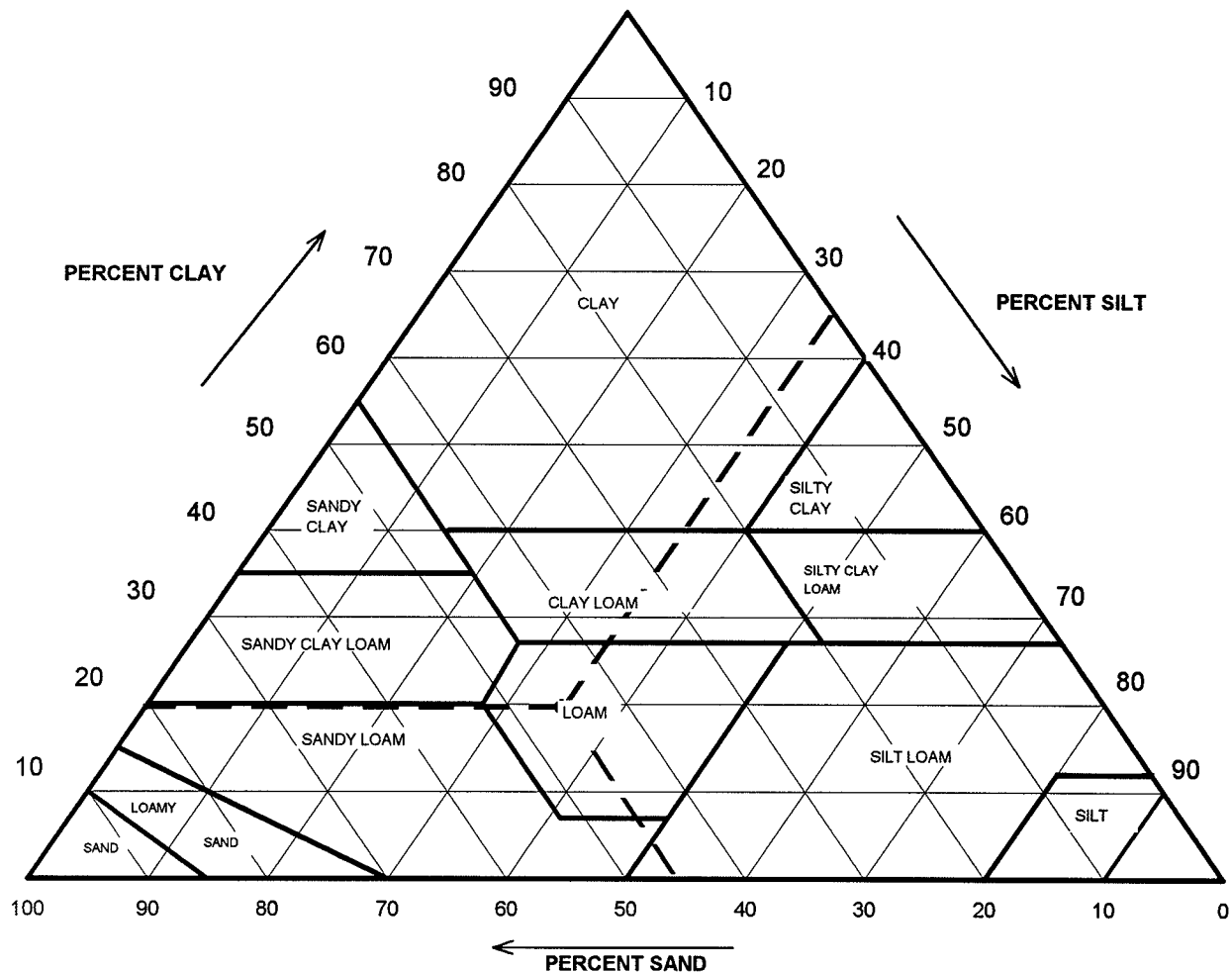
USCS USDA	SIEVE ANALYSIS			HYDROMETER	
	cobbles	gravel	sand	silt and clay fraction	
	cobbles	gravel	sand	silt	clay



USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	Gravel	0.00
#4 To #200	Sand	38.60
Finer Than #200	Silt & Clay	61.40
USCS Symbol	cl, ASSUMED	
USCS Classification	SANDY LEAN CLAY	

USDA CLASSIFICATION CHART

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-112
Client Reference	GE Processing Facility 20430.011	Depth (ft)	6-8
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-04	Soil Color	GRAY



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.40	0.00
2	99.60	<i>Sand</i>	45.37	45.55
0.05	54.23	<i>Silt</i>	34.68	34.82
0.002	19.54	<i>Clay</i>	19.54	19.62
USDA Classification		LOAM		



WASH SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-112
Client Reference	GE Processing Facility 20430.011	Depth (ft)	6-8
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-04	Soil Color	GRAY

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	701	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	437.78	Wgt. Tare + Wet Specimen (gm)	NA
Wgt. Tare + Dry Specimen (gm)	310.83	Wgt. Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	100.37	Weight of Tare (gm)	NA
Weight of Water (gm)	126.95	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	210.46	Weight of Dry Soil (gm)	NA
Moisture Content (%)	60.3	Moisture Content (%)	NA

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	210.46
Dry Weight - 3/4" Sample (gm)	81.24	Weight of minus #200 material (gm)	129.22
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	81.24
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.00	0.00	100.00	100.00
6"	150	0.00	0.00	0.00	100.00	100.00
3"	75	0.00	0.00	0.00	100.00	100.00
2"	50	0.00	0.00	0.00	100.00	100.00
1 1/2"	37.5	0.00	0.00	0.00	100.00	100.00
1"	25.0	0.00	0.00	0.00	100.00	100.00
3/4"	19.0	0.00	0.00	0.00	100.00	100.00
1/2"	12.5	0.00	0.00	0.00	100.00	100.00
3/8"	9.50	0.00	0.00	0.00	100.00	100.00
#4	4.75	0.00	0.00	0.00	100.00	100.00
#10	2.00	0.85	0.40	0.40	99.60	99.60
#20	0.85	1.32	0.63	1.03	98.97	98.97
#40	0.425	3.63	1.72	2.76	97.24	97.24
#60	0.250	4.81	2.29	5.04	94.96	94.96
#140	0.106	38.85	18.46	23.50	76.50	76.50
#200	0.075	31.78	15.10	38.60	61.40	61.40
Pan	-	129.22	61.40	100.00	-	-

Tested By BE Date 10/20/05 Checked By *KB* Date 10-21-05



HYDROMETER ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-112
Client Reference	GE Processing Facility 20430.011	Depth (ft)	6-8
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-04	Soil Color	GRAY

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)	
0	NA	NA	NA	NA	NA	NA	NA	NA	
2	38.0	38.5	23.2	6.36	32.1	72.5	0.01294	0.0289	44.5
5		34.0	23.2	6.36	27.6	62.4	0.01294	0.0190	38.3
15		30.0	23.2	6.36	23.6	53.4	0.01294	0.0113	32.8
30		28.0	23.2	6.36	21.6	48.8	0.01294	0.0081	30.0
62		26.0	23.6	6.22	19.8	44.7	0.01288	0.0057	27.4
250		22.0	23.9	6.11	15.9	35.9	0.01284	0.0029	22.0
1440		18.0	23.6	6.22	11.8	26.6	0.01288	0.0012	16.3

Soil Specimen Data	Other Corrections	
Tare No.	971	
Tare + Dry Material (gm)	152	
Weight of Tare (gm)	103.14	
Weight of Deflocculant (gm)	5.0	
Weight of Dry Material (gm)	43.86	
	a - Factor	0.99
	Percent Finer than # 200	61.40
	Specific Gravity	2.7 Assumed

Note: Hydrometer test is performed on - # 200 sieve material.

Tested By TO Date 10/19/05 Checked By *KB* Date 10-21-05

page 4 of 4 DCN: CT-S3A DATE:1/30/04 REVISION: 6 C:\MSOFFICE\Excel\PrintQ\0131.xls\Sheet1

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-112
Client Reference	GE Processing Facility 20430.011	Depth (ft)	15.6-15.8
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-13	Visual Description	GRAY CLAY (Minus No.4 sieve material, airdried)

Replicate Number	1	2
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	728.26	717.55
Temperature, T (°Celsius)	26.6	26.1
Weight of Pycnometer + Water (gm)	680.41	669.95
Tare Number	948	962
Weight of Tare + Dry Soil (gm)	178.05	178
Weight of Tare (gm)	102.82	103.01
Weight of Dry Soil (gm)	75.23	74.99
Specific Gravity of Soil @ T	2.748	2.738
Specific Gravity of Water @ T	0.9967	0.9968
Conversion Factor for Temperature T	0.9984	0.9986
Specific Gravity @ 20° Celsius	2.752	2.742

Average Specific Gravity @ 20° Celsius 2.75

Tested By TO Date 10/26/05 Checked By *KJB* Date 10-27-05

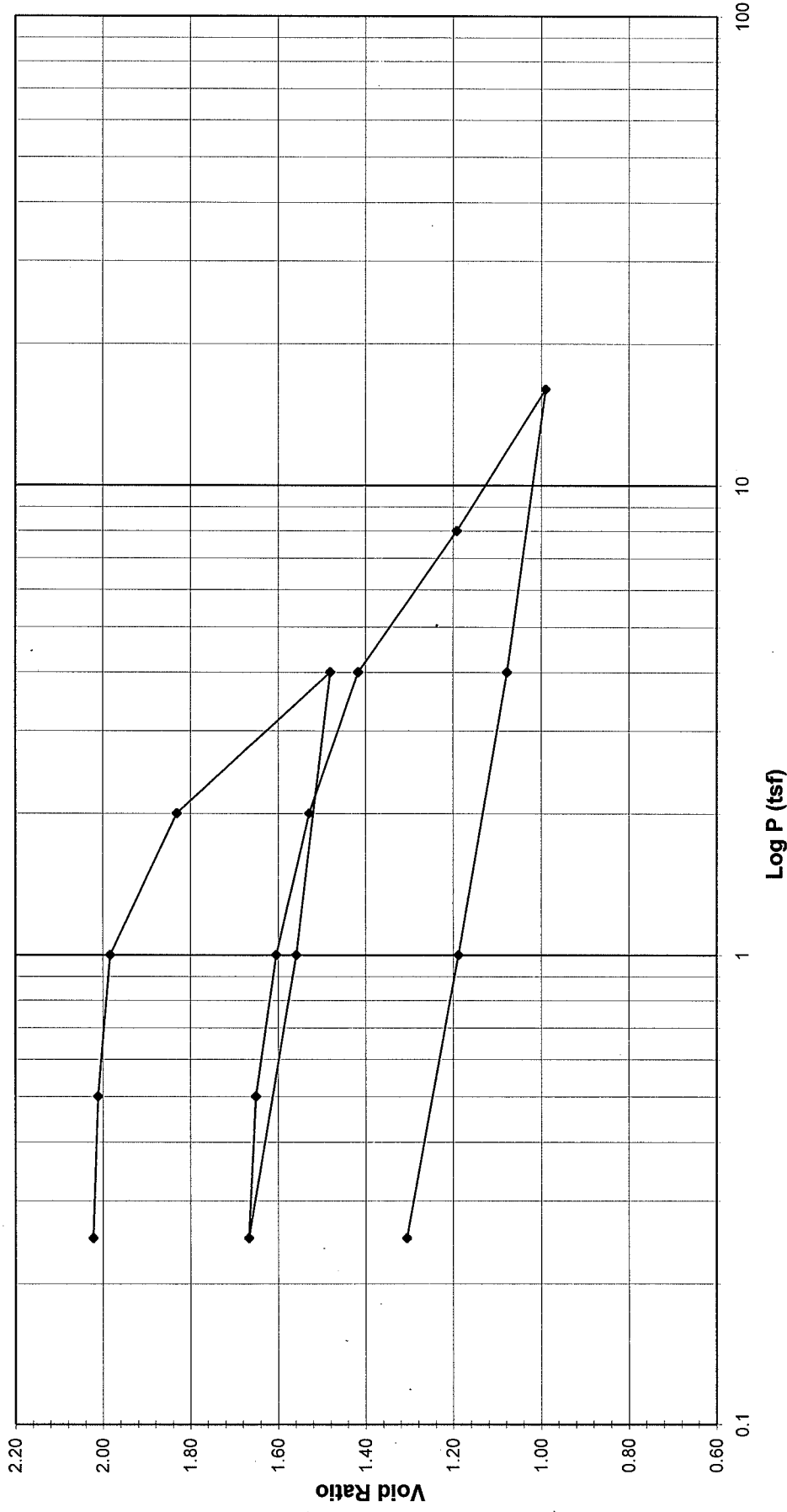


ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-112
Client Reference	GE PROCESSING FACILITY 20430.011	Depth (ft)	15.4-15.6
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-13	Visual Description	SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Tested By TM Date 10/19/05 Approved By DB Date 10/31/05



ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-112
Client Reference	GE PROCESSING FACILITY 20430.011	Depth (ft)	15.4-15.6
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-13	Visual Description	SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED

Consolidometer No. 4
1 Division = 0.0001 (in)

Sample Properties

<i>Water Content</i>			
Tare Number	D-4	T-16	
Wt. Tare & WS (gm)	141.09	173.77	
Wt. Tare & DS (gm)	97.04	147.16	
Wt. Water (gm)	44.05	26.61	
Wt. Tare (gm)	36.65	92.71	
Wt. DS (gm)	60.39	54.45	
Water Content (%)	72.94	48.87	

<i>Sample Parameters</i>			
Sample Diameter (in)	2.5	2.5	
Sample Height (in)	0.75	0.571	
Sample Volume (cc)	60.33	45.92	
Wt. Wet Sample + Ring (gm)	172.42	159.24	
Wt. of Ring (gm)	77.72	77.72	
Wt. of Wet Sample (gm)	94.70	81.52	
Wet Density (pcf)	97.95	110.76	
Wet Density (g/cc)	1.57	1.78	
Water Content (%)	72.94	48.87	
Wt. of Dry Sample (gm)	54.76	54.76	
Dry Density (pcf)	56.64	74.40	
Dry Density (g/cc)	0.91	1.19	
Void Ratio	2.0298	1.3064	
Saturation (%)	98.82	102.88	
Specific Gravity	2.75	Measured	

Test Data Summary

Applied Pressure (tsf)	Final Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	19.050	60.330	0.90764	2.02982
0.25	25.3	6.6	18.7	19.003	60.179	0.90991	2.02227
0.5	57.3	11.7	45.6	18.934	59.963	0.91320	2.01140
1	133.7	18.5	115.2	18.757	59.403	0.92180	1.98328
2	520.5	28.5	492.0	17.800	56.372	0.97137	1.83106
4	1401.1	41.2	1359.9	15.596	49.391	1.10867	1.48045
1	1197.1	30.8	1166.3	16.088	50.948	1.07478	1.55866
0.25	915.1	14.6	900.5	16.763	53.086	1.03149	1.66604
0.5	956.1	17.5	938.6	16.666	52.780	1.03748	1.65065
1	1075.9	21.6	1054.3	16.372	51.849	1.05610	1.60391
2	1270.4	29.4	1241.0	15.898	50.347	1.08761	1.52849
4	1560.4	41.6	1518.8	15.192	48.113	1.13812	1.41626
8	2128.2	53.3	2074.9	13.780	43.639	1.25479	1.19161
16	2638.9	63.7	2575.2	12.509	39.615	1.38226	0.98950
4	2408.2	51.3	2356.9	13.063	41.371	1.32359	1.07769
1	2120.6	36.7	2083.9	13.757	43.567	1.25687	1.18797
0.25	1810.5	19.7	1790.8	14.501	45.925	1.19234	1.30638

Tested By TM Date 10/19/05 Input Checked By GU Date 10/31/05

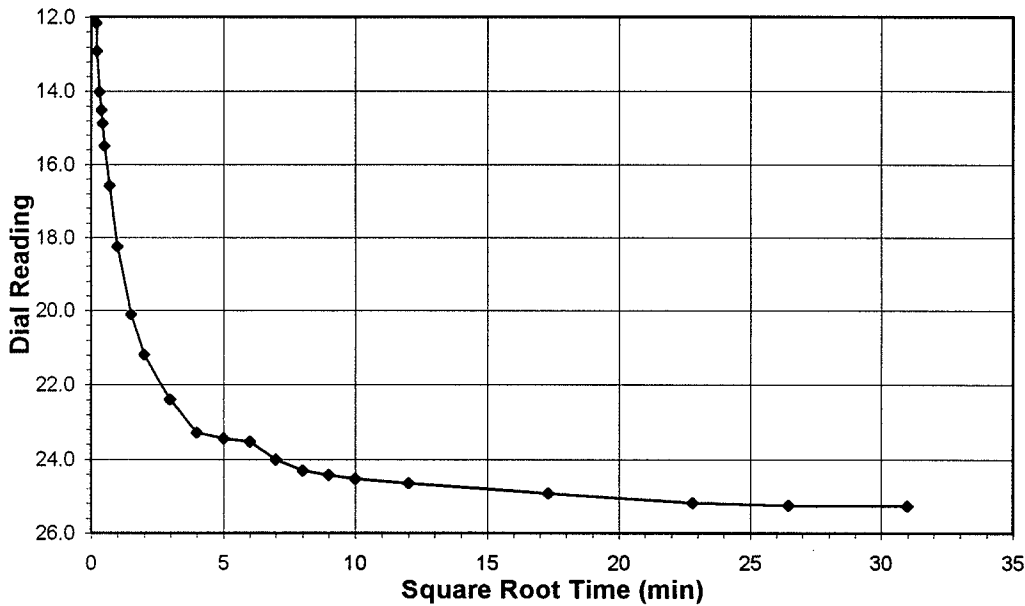
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-13**

Boring No. **GT-112**
 Depth (ft) **15.4-15.6**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

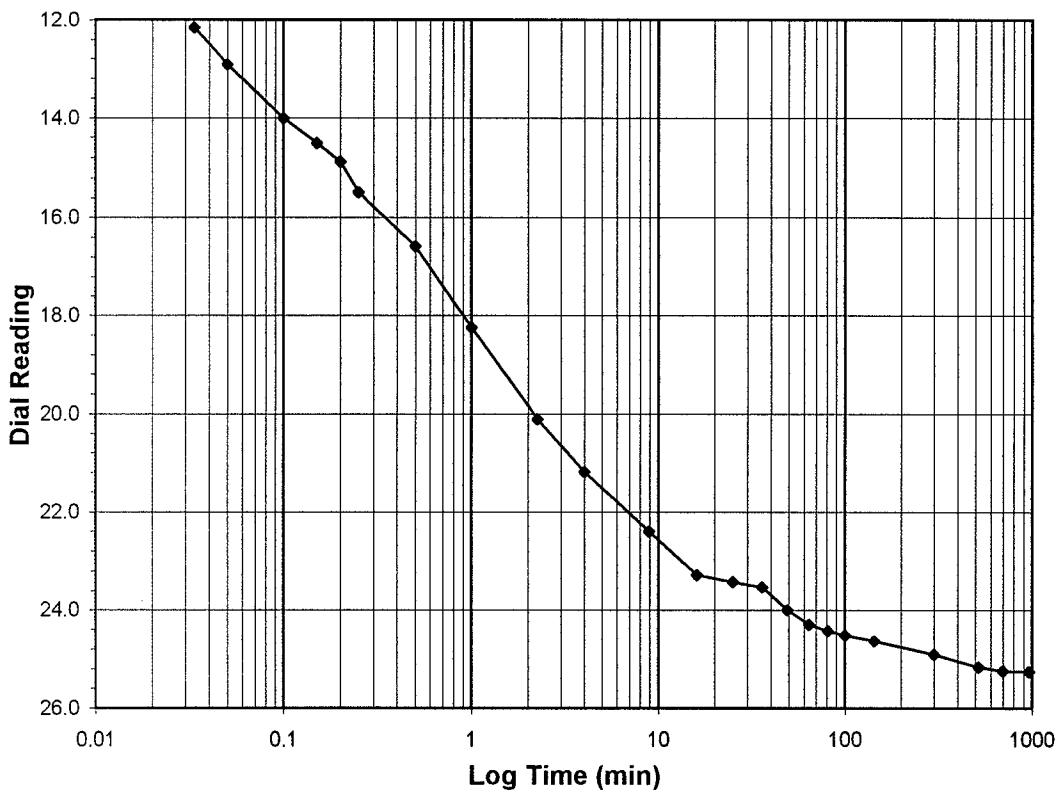
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0-0.25
Final Reading (div) 25.3
 Consolidometer No. **4**
 1 Division (in) **0.0001**

Start Date 10/19/05
Start Time 14:48:47

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	0.0
0.03	12.2
0.05	12.9
0.10	14.0
0.15	14.5
0.20	14.9
0.25	15.5
0.50	16.6
1.00	18.3
2.25	20.1
4.00	21.2
8.90	22.4
16.00	23.3
25.00	23.4
36.00	23.5
49.00	24.0
64.00	24.3
81.00	24.4
100.00	24.5
144.00	24.6
300.02	24.9
520.00	25.2
700.00	25.2
960.00	25.3



Tested By **TM** Date **10/19/05** Checked By **GO** Date **10/31/05**

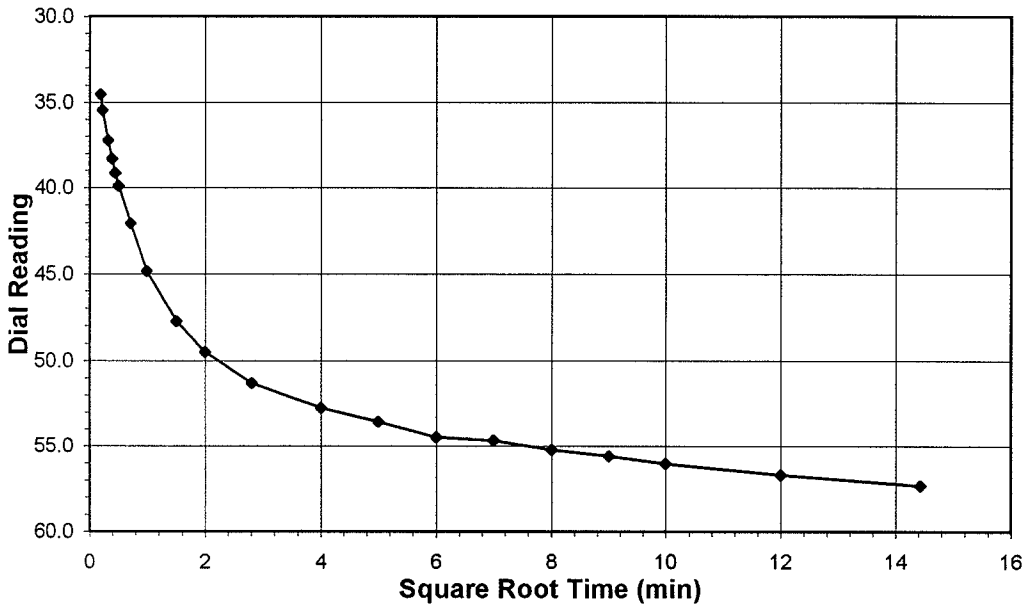
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-13**

Boring No. **GT-112**
 Depth (ft) **15.4-15.6**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

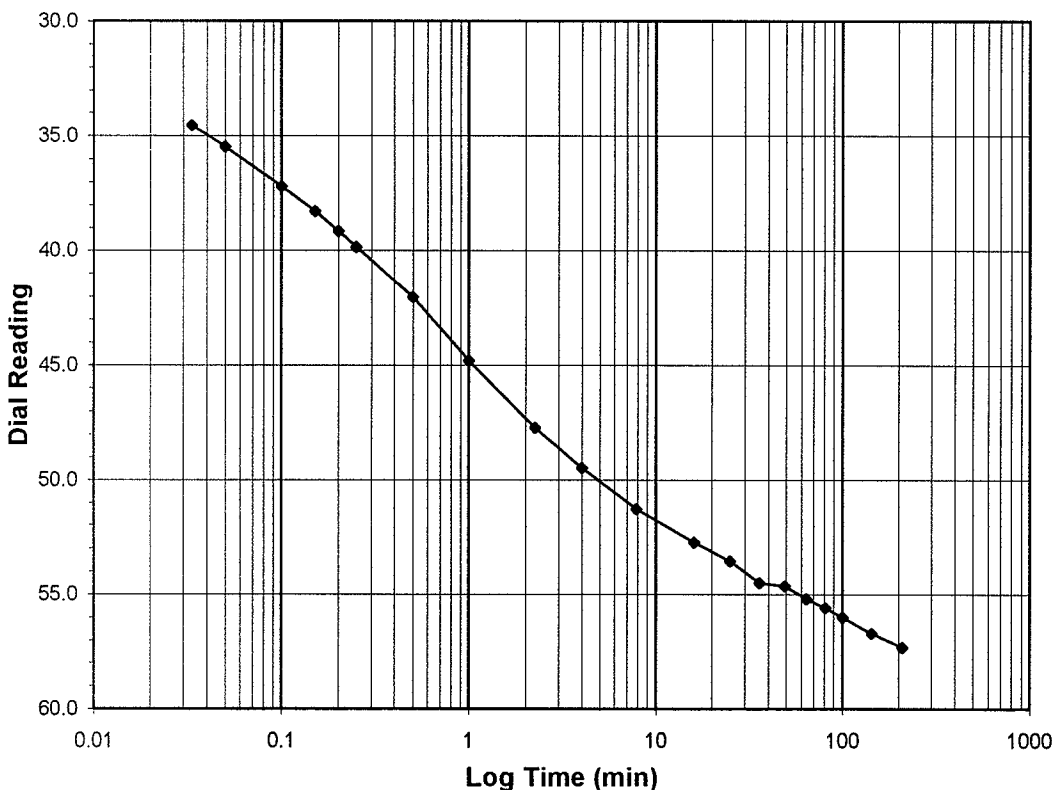
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) **0.25-0.5**
 Final Reading (div) **57.3**
 Consolidometer No. **4**
 1 Division (in) **0.0001**

Start Date **10/20/05**
 Start Time **7:28:38**

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	25.3
0.03	34.5
0.05	35.5
0.10	37.2
0.15	38.3
0.20	39.1
0.25	39.9
0.50	42.0
1.00	44.8
2.25	47.7
4.00	49.5
7.89	51.3
16.00	52.8
25.00	53.5
36.00	54.5
49.00	54.6
64.00	55.2
81.00	55.6
100.00	56.0
144.00	56.7
208.30	57.3

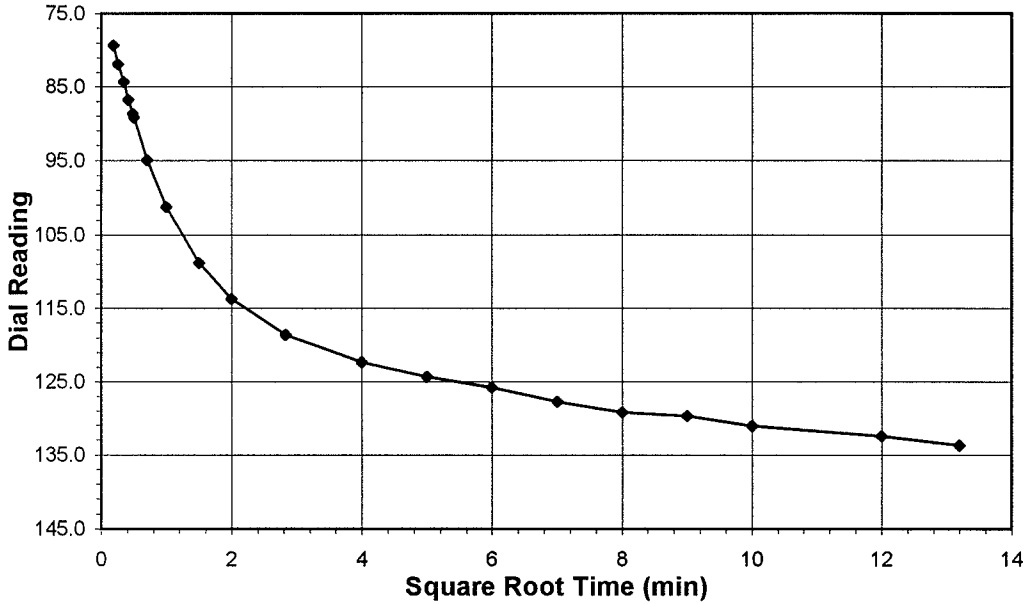


Tested By **TM** Date **10/20/05** Checked By **GO** Date **10/31/05**

ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-96 (SOP-S24A)

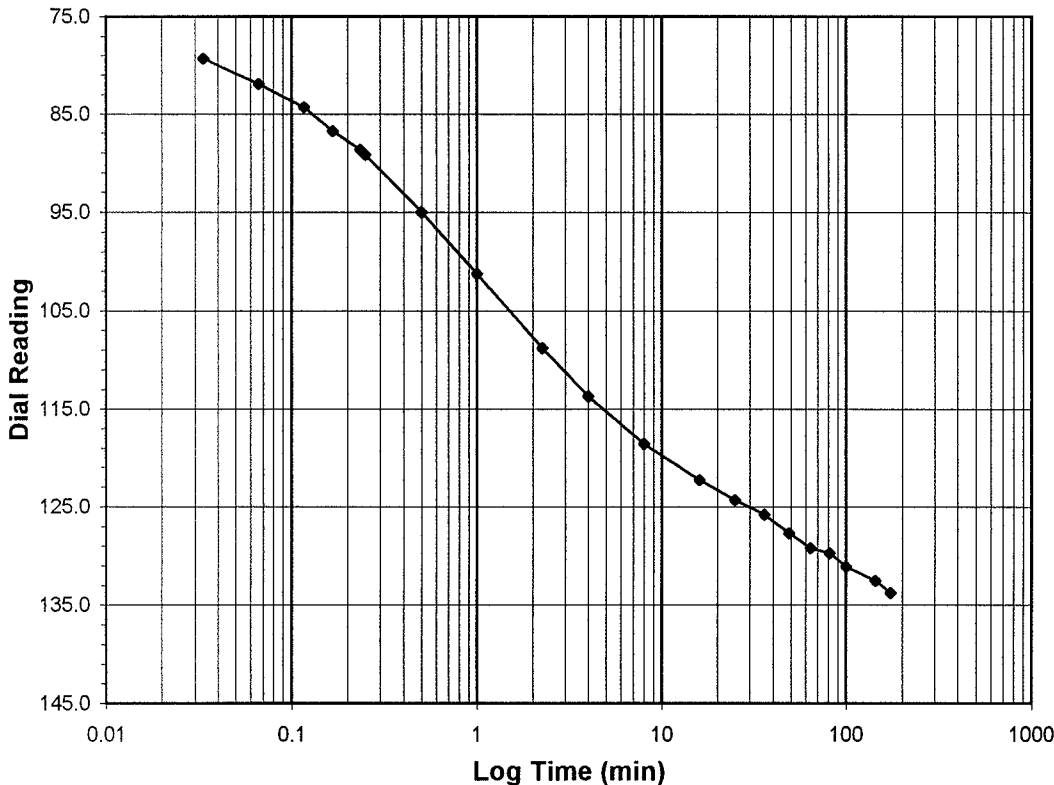
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-112
Client Project	GE PROCESSING FACILITY 20430.011	Depth (ft)	15.4-15.6
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-13	Visual Description	SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	133.7
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	10/20/05
Start Time	11:17:13

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	57.3
0.03	79.3
0.07	81.9
0.12	84.3
0.17	86.8
0.23	88.7
0.25	89.2
0.50	95.0
1.00	101.2
2.25	108.8
4.00	113.7
8.02	118.6
16.00	122.3
25.00	124.3
36.00	125.8
49.00	127.7
64.00	129.2
81.00	129.7
100.00	131.0
144.00	132.5
174.20	133.7



Tested By TM Date 10/20/05 Checked By GU Date 10/31/05

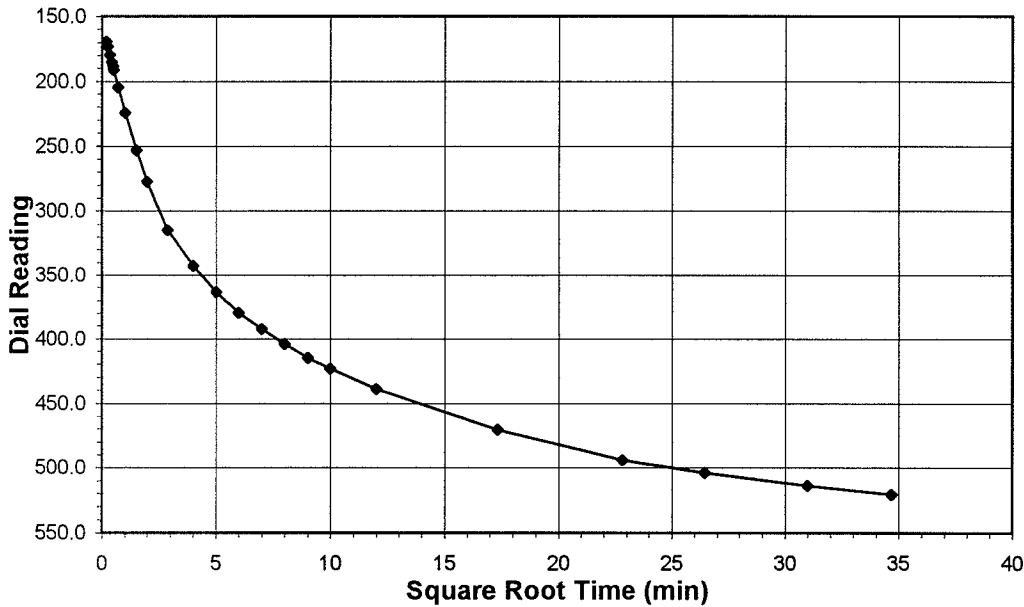
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-13**

Boring No. **GT-112**
 Depth (ft) **15.4-15.6**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

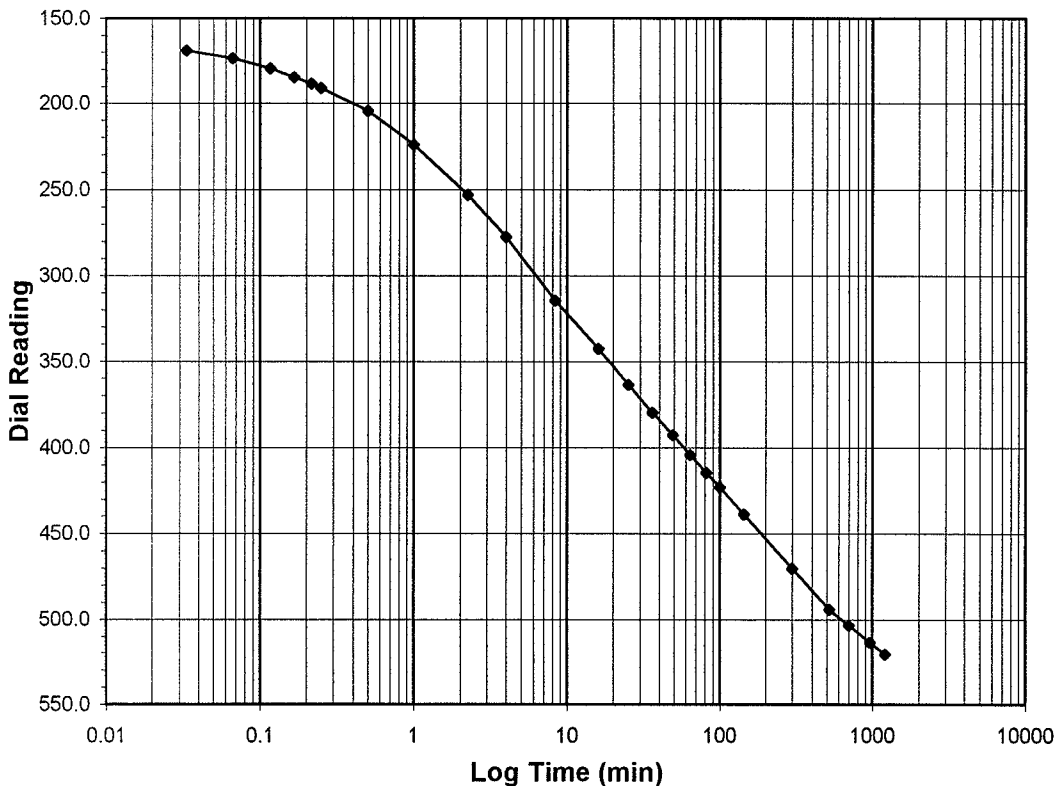
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 1.0-2.0
Final Reading (div) 520.5
 Consolidometer No. **4**
 1 Division (in) **0.0001**

Start Date 10/20/05
Start Time 14:19:30

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	133.7
0.03	169.0
0.07	173.3
0.12	179.5
0.17	184.7
0.22	188.4
0.25	191.1
0.50	204.4
1.00	224.0
2.25	253.1
4.00	277.4
8.33	314.5
16.00	342.6
25.00	363.5
36.00	379.7
49.00	392.5
64.00	404.3
81.00	414.7
100.00	423.1
144.00	438.7
300.00	470.2
520.02	494.0
700.00	503.7
960.00	513.7
1202.20	520.5



Tested By **TM** Date **10/20/05** Checked By **GL** Date **10/31/05**

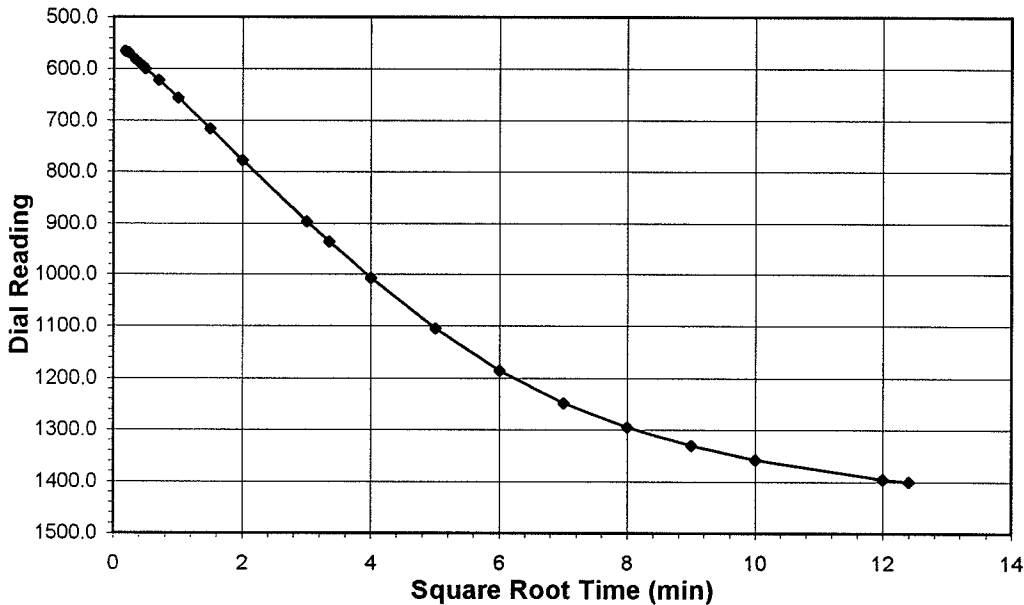
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-13**

Boring No. **GT-112**
 Depth (ft) **15.4-15.6**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

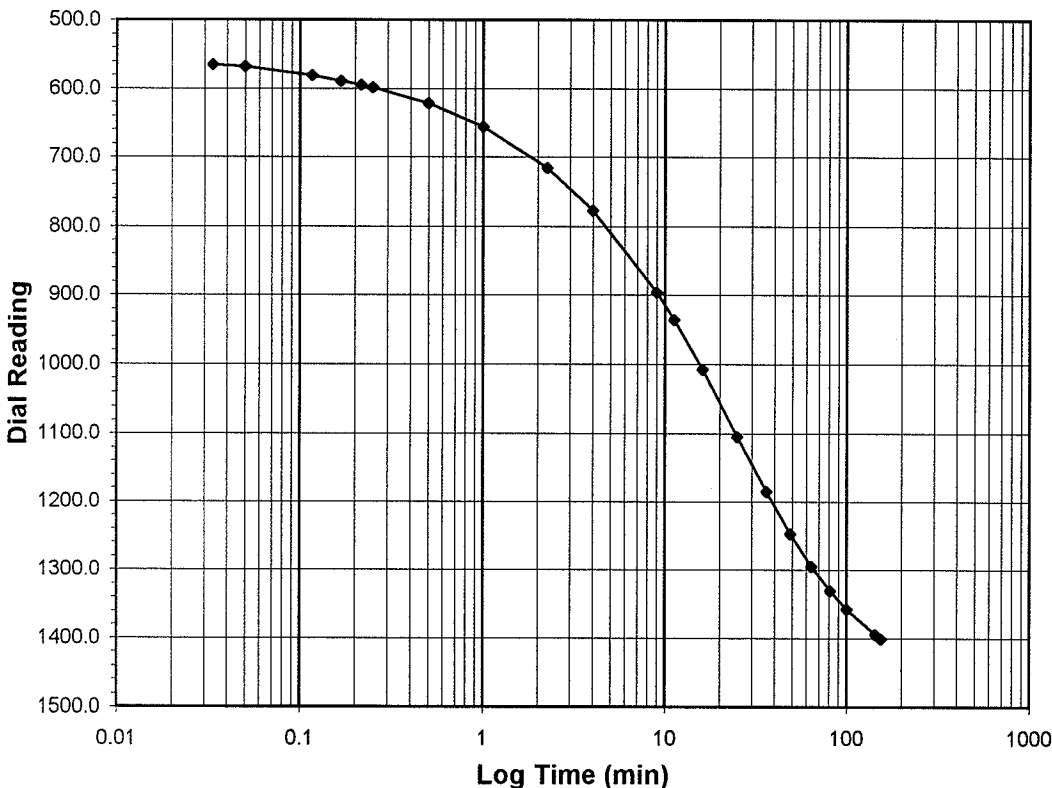
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) **2.0-4.0**
 Final Reading (div) **1401.1**
 Consolidometer No. **4**
 1 Division (in) **0.0001**

Start Date **10/21/05**
 Start Time **10:28:59**

Elapsed Time (min)	Dial Reading (div)
Initial	520.5
0.03	565.4
0.05	567.6
0.12	581.2
0.17	588.9
0.22	594.8
0.25	599.0
0.50	621.6
1.00	656.3
2.25	716.1
4.00	777.2
9.02	896.5
11.22	936.4
16.00	1007.6
25.00	1105.0
36.00	1185.2
49.00	1247.9
64.00	1295.0
81.00	1330.5
100.00	1357.5
144.00	1395.1
153.90	1401.1



Tested By **TM** Date **10/21/05** Checked By **GW** Date **10/31/05**

ONE DIMENSIONAL CONSOLIDATION

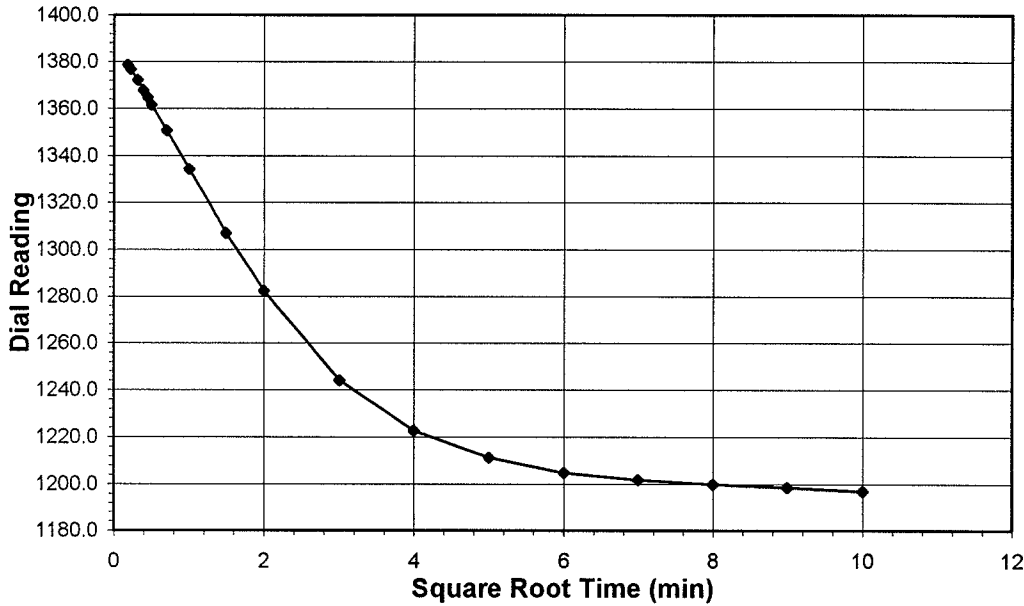
ASTM D 2435-96 (SOP-S24A)



Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-13**

Boring No. **GT-112**
 Depth (ft) **15.4-15.6**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

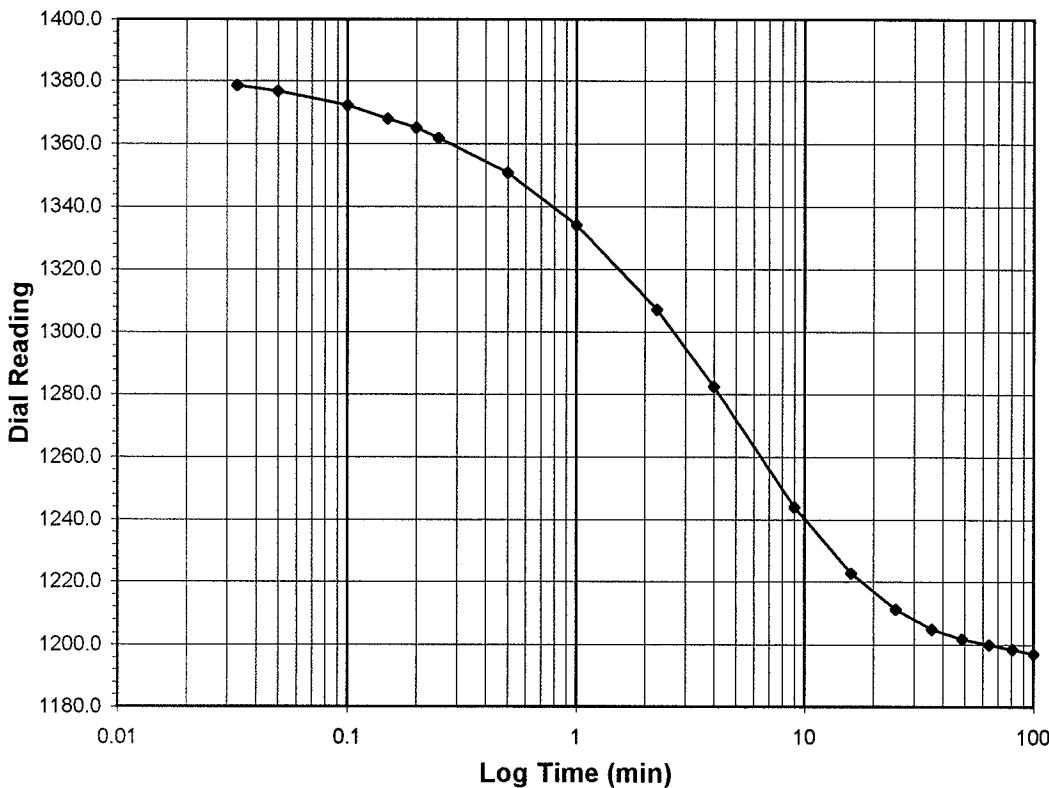
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 4.0-1.0
Final Reading (div) 1197.1
 Consolidometer No. **4**
 1 Division (in) **0.0001**

Start Date **10/21/05**
 Start Time **13:12:52**

Elapsed Time (min)	Dial Reading (div)
Initial	1401.1
0.03	1378.5
0.05	1376.6
0.10	1372.2
0.15	1367.9
0.20	1365.0
0.25	1361.7
0.50	1350.9
1.00	1334.2
2.25	1307.2
4.00	1282.4
9.02	1244.1
16.00	1222.7
25.02	1211.3
36.00	1205.0
49.00	1201.8
64.00	1200.1
81.00	1198.6
100.00	1197.1



Tested By **TM** Date **10/21/05** Checked By **GU** Date **10/31/05**

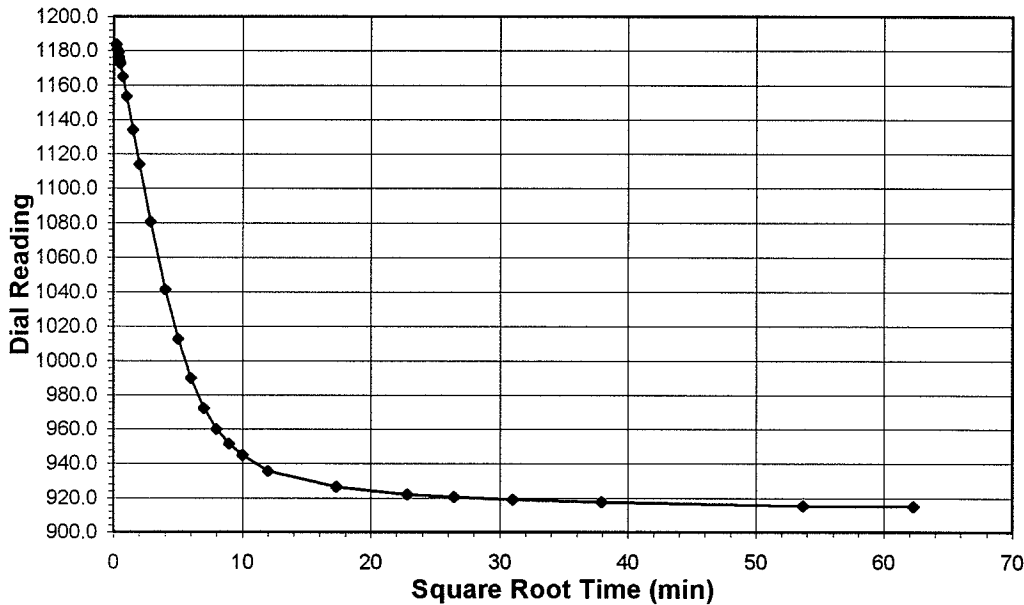
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-13**

Boring No. **GT-112**
 Depth (ft) **15.4-15.6**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

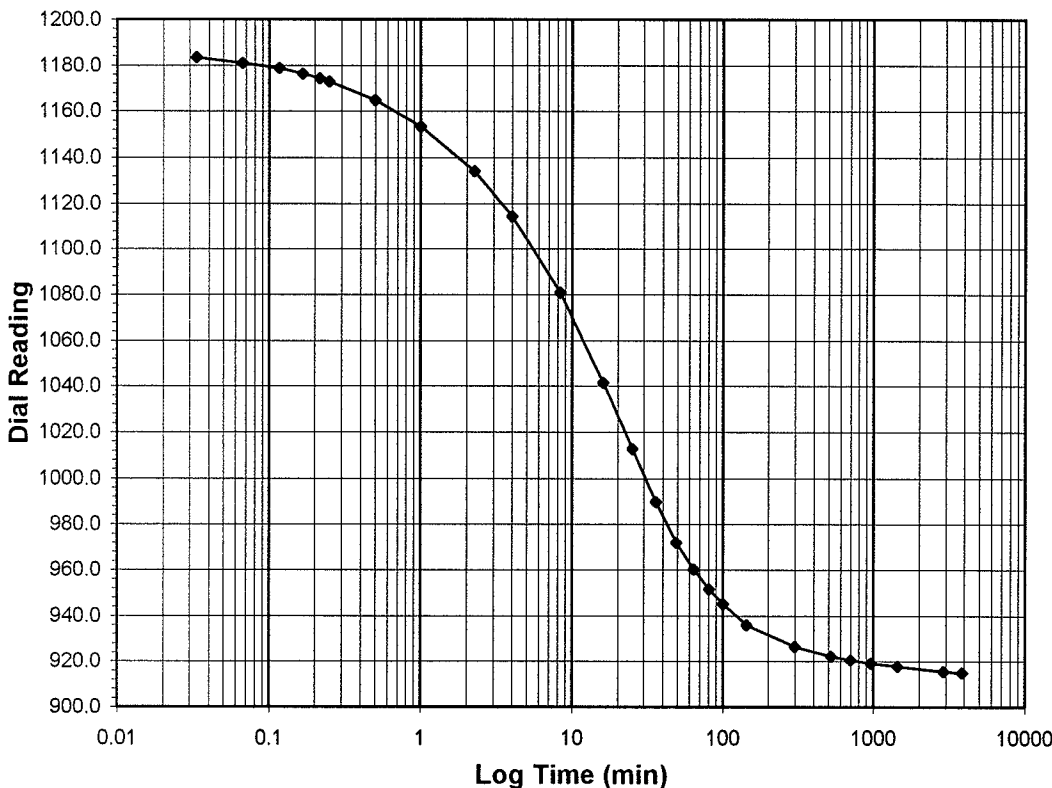
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 1.0-0.25
Final Reading (div) 915.1
 Consolidometer No. 4
 1 Division (in) 0.0001

Start Date 10/21/05
Start Time 15:13:01

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	1197.1
0.03	1183.7
0.07	1180.9
0.12	1178.9
0.17	1176.4
0.22	1174.2
0.25	1172.9
0.50	1164.9
1.00	1153.5
2.25	1134.1
4.00	1114.3
8.33	1080.7
16.00	1041.5
25.00	1012.7
36.00	989.9
49.00	972.1
64.00	960.2
81.00	951.7
100.00	945.1
144.00	935.9
300.00	926.4
520.00	922.2
700.00	920.7
960.00	919.3
1440.00	917.8
2880.00	915.6
3880.00	915.1



Tested By **TM** Date **10/21/05** Checked By **GU** Date **10/31/05**

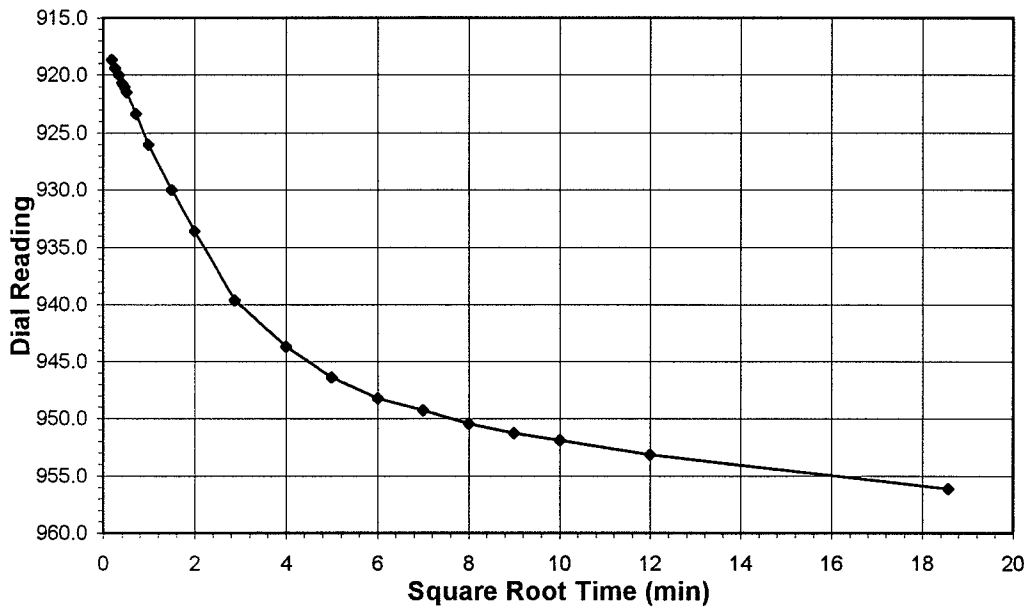
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-13**

Boring No. **GT-112**
 Depth (ft) **15.4-15.6**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

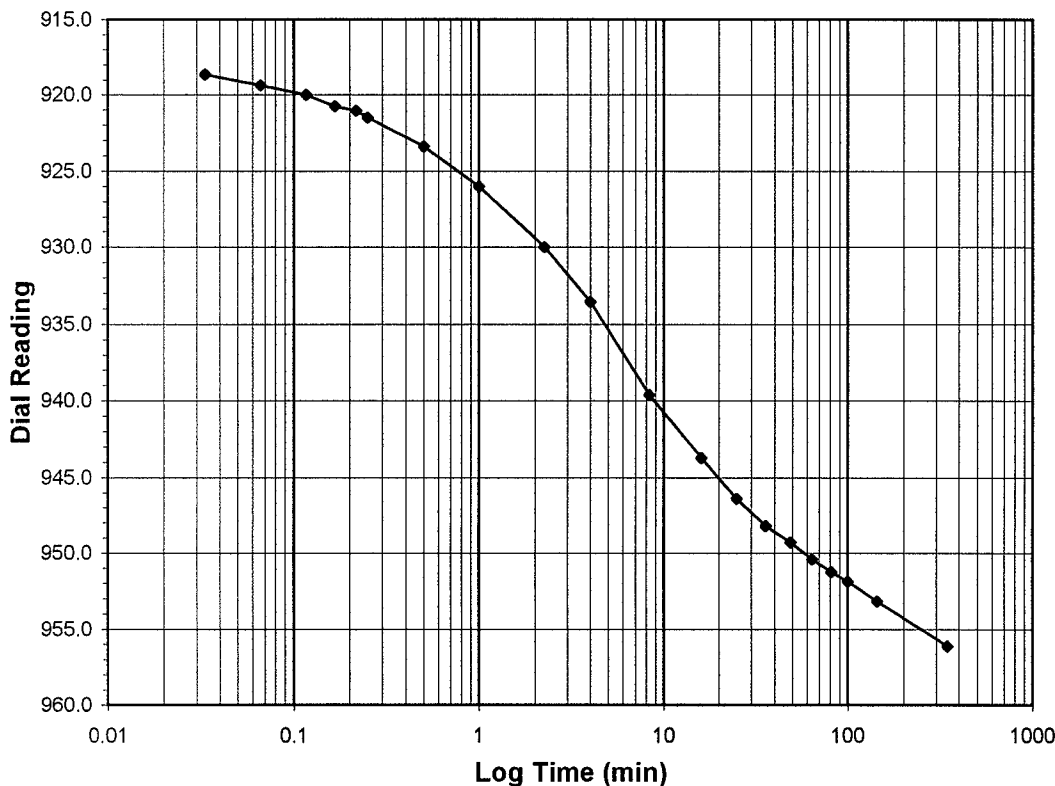
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.25-0.5
Final Reading (div) 956.1
 Consolidometer No. **4**
 1 Division (in) **0.0001**

Start Date 10/24/05
Start Time 8:05:15

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	915.1
0.03	918.7
0.07	919.4
0.12	920.0
0.17	920.7
0.22	921.0
0.25	921.5
0.50	923.4
1.00	926.0
2.25	930.0
4.00	933.6
8.33	939.6
16.00	943.7
25.00	946.4
36.00	948.2
49.00	949.3
64.00	950.4
81.00	951.3
100.00	951.9
144.00	953.2
344.90	956.1



Tested By **TM** Date **10/24/05** Checked By **GU** Date **10/31/05**

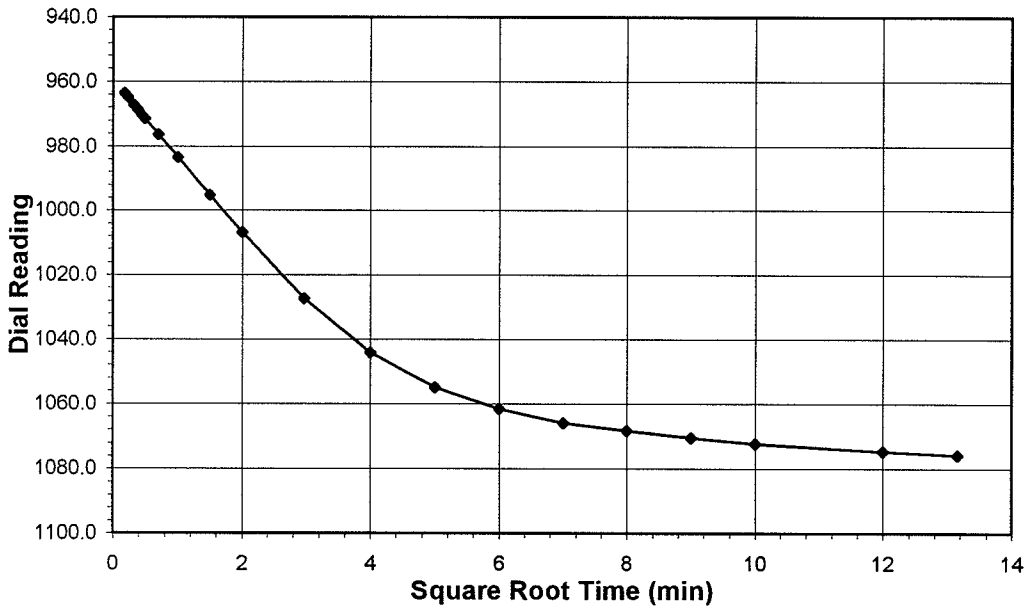


ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-13**

Boring No. **GT-112**
 Depth (ft) **15.4-15.6**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

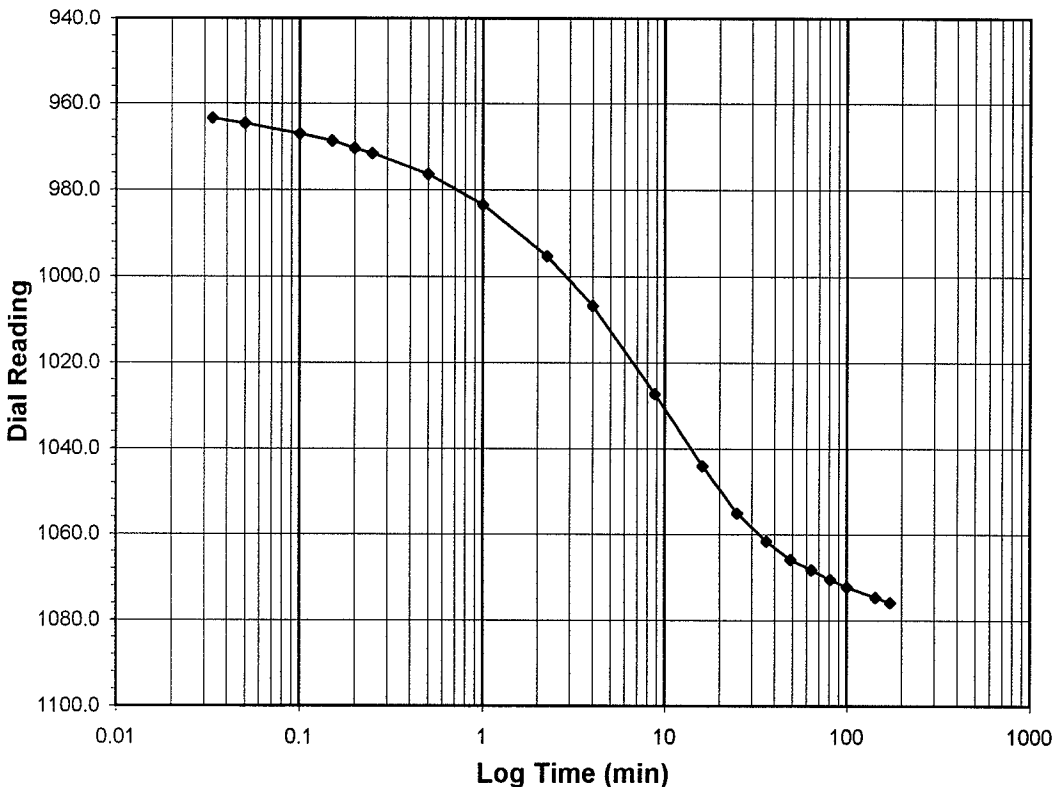
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) **0.5-1.0**
 Final Reading (div) **1075.9**
 Consolidometer No. **4**
 1 Division (in) **0.0001**

Start Date **10/24/05**
 Start Time **13:52:24**

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	956.1
0.03	963.5
0.05	964.7
0.10	967.1
0.15	968.7
0.20	970.3
0.25	971.5
0.50	976.3
1.00	983.4
2.25	995.3
4.00	1006.8
8.83	1027.3
16.00	1044.1
25.00	1055.0
36.00	1061.7
49.00	1065.9
64.00	1068.3
81.00	1070.5
100.00	1072.3
144.00	1074.7
173.07	1075.9



Tested By **TM** Date **10/24/05** Checked By **GO** Date **10/31/05**

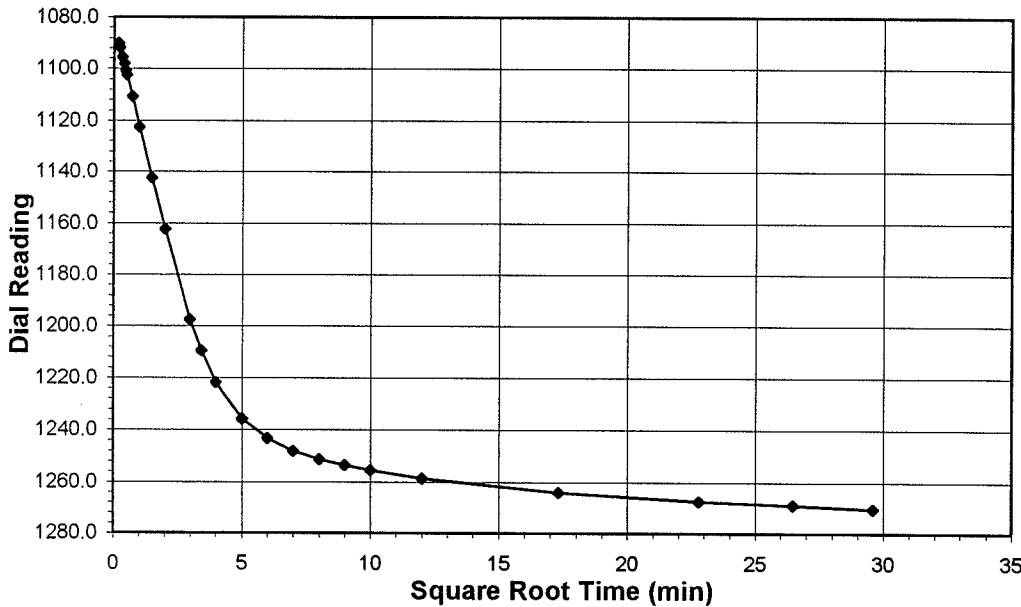


ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-13**

Boring No. **GT-112**
 Depth (ft) **15.4-15.6**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

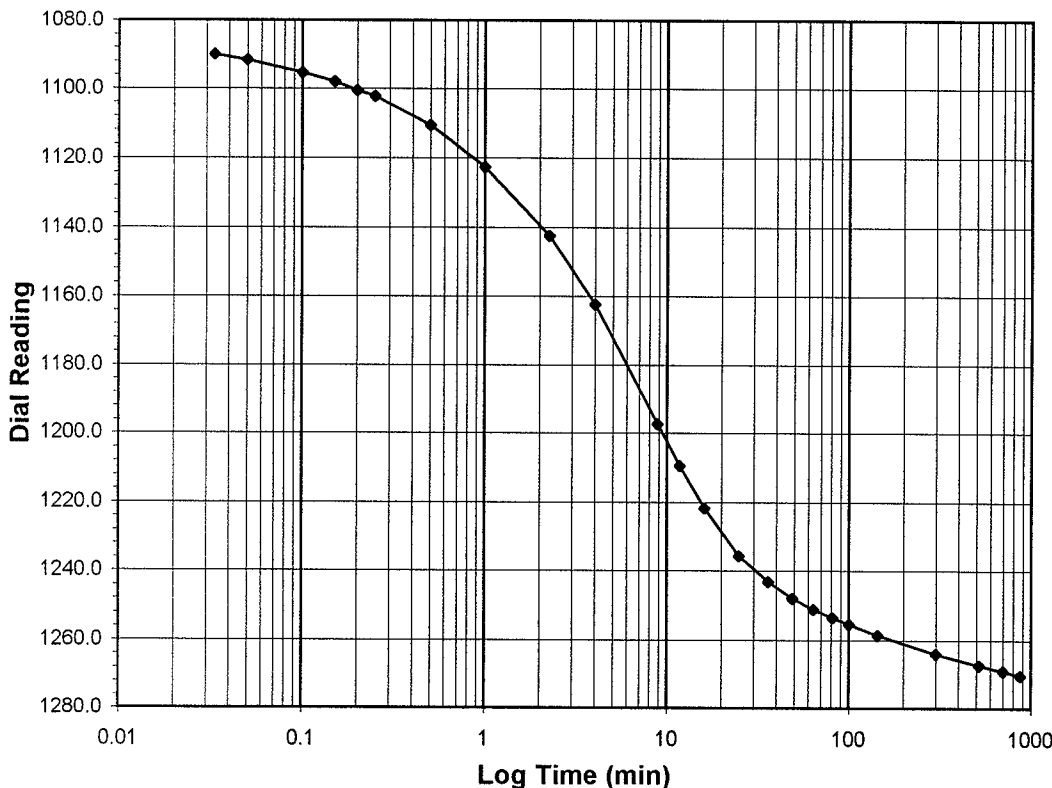
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 1.0-2.0
Final Reading (div) 1270.4
 Consolidometer No. **4**
 1 Division (in) **0.0001**

Start Date 10/24/05
Start Time 16:52:21

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	1075.9
0.03	1090.0
0.05	1091.7
0.10	1095.5
0.15	1098.0
0.20	1100.6
0.25	1102.2
0.50	1110.8
1.00	1122.5
2.25	1142.5
4.00	1162.3
8.83	1197.4
11.72	1209.5
16.02	1221.7
25.00	1235.7
36.00	1243.3
49.00	1248.0
64.00	1251.2
81.00	1253.5
100.00	1255.5
144.00	1258.6
300.00	1264.0
520.00	1267.4
700.00	1269.0
875.00	1270.4



Tested By **TM** Date **10/24/05** Checked By **GU** Date **10/31/05**



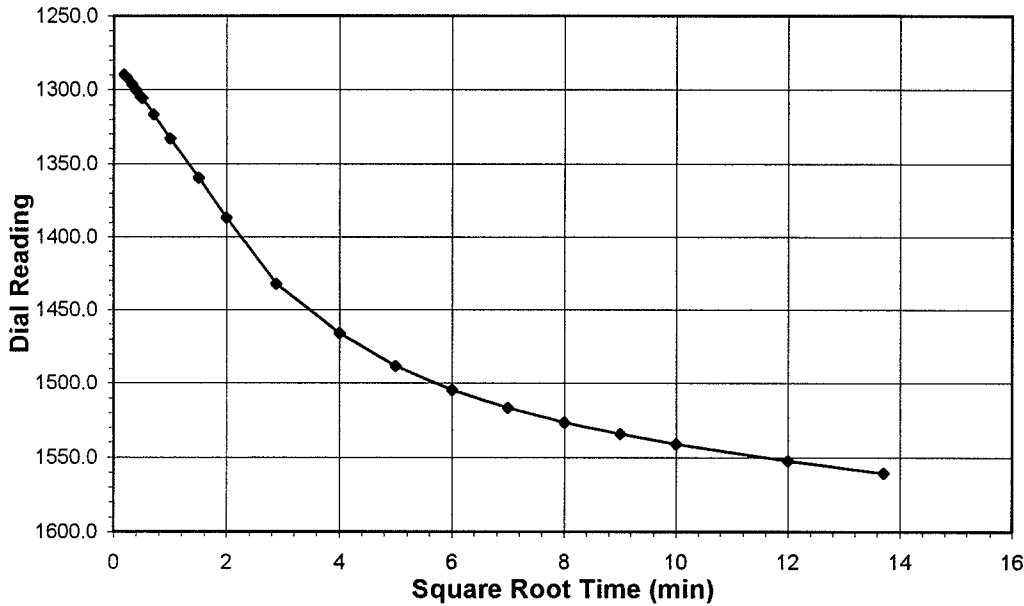
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE
 Client Project: GE PROCESSING FACILITY 20430.011
 Project No.: 2005-329-01
 Lab ID: 2005-329-01-13

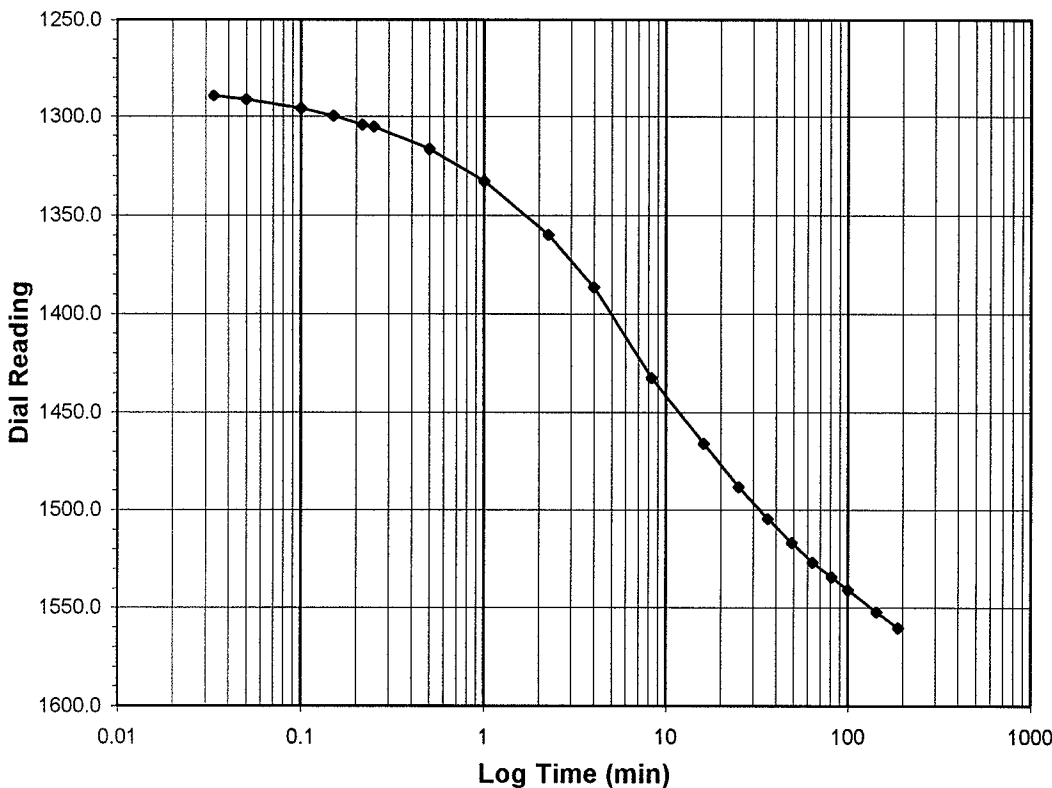
Boring No.: GT-112
 Depth (ft): 15.4-15.6
 Sample No.: ST-1
 Visual Description: SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 2.0-4.0
 Final Reading (div): 1560.4
 Consolidometer No.: 4
 1 Division (in): 0.0001
 Start Date: 10/25/05
 Start Time: 7:41:10

Elapsed Time (min)	Dial Reading (div)
Initial	1270.4
0.03	1289.4
0.05	1291.4
0.10	1295.8
0.15	1299.8
0.22	1304.3
0.25	1305.4
0.50	1316.7
1.00	1332.9
2.25	1359.7
4.00	1386.5
8.28	1432.4
16.00	1465.8
25.00	1488.3
36.00	1504.5
49.00	1516.7
64.00	1526.7
81.00	1534.4
100.00	1540.9
144.00	1552.2
188.10	1560.4



Tested By: TM Date: 10/25/05 Checked By: GU Date: 10/31/05

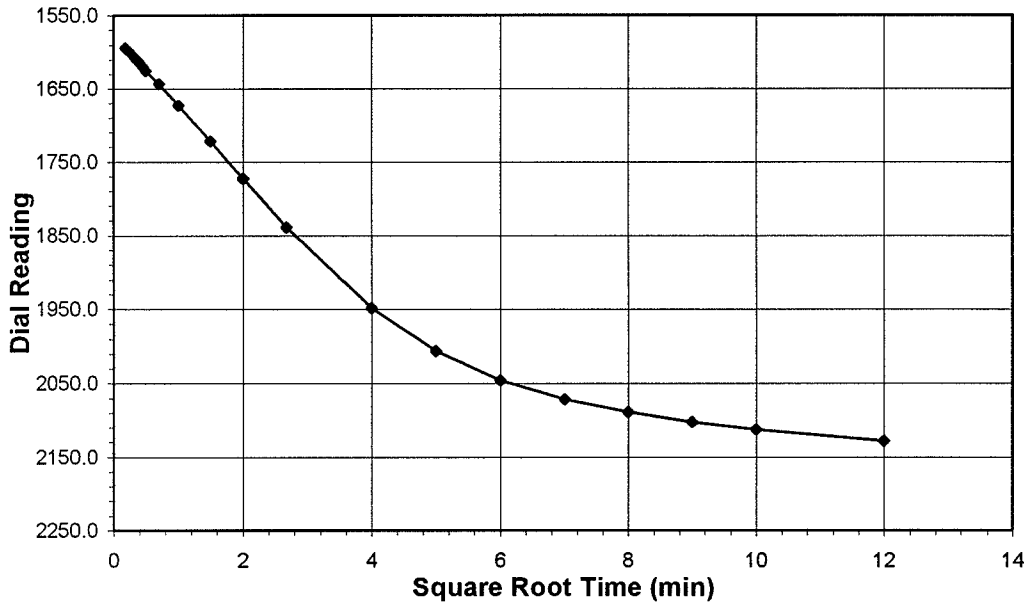
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-13**

Boring No. **GT-112**
 Depth (ft) **15.4-15.6**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

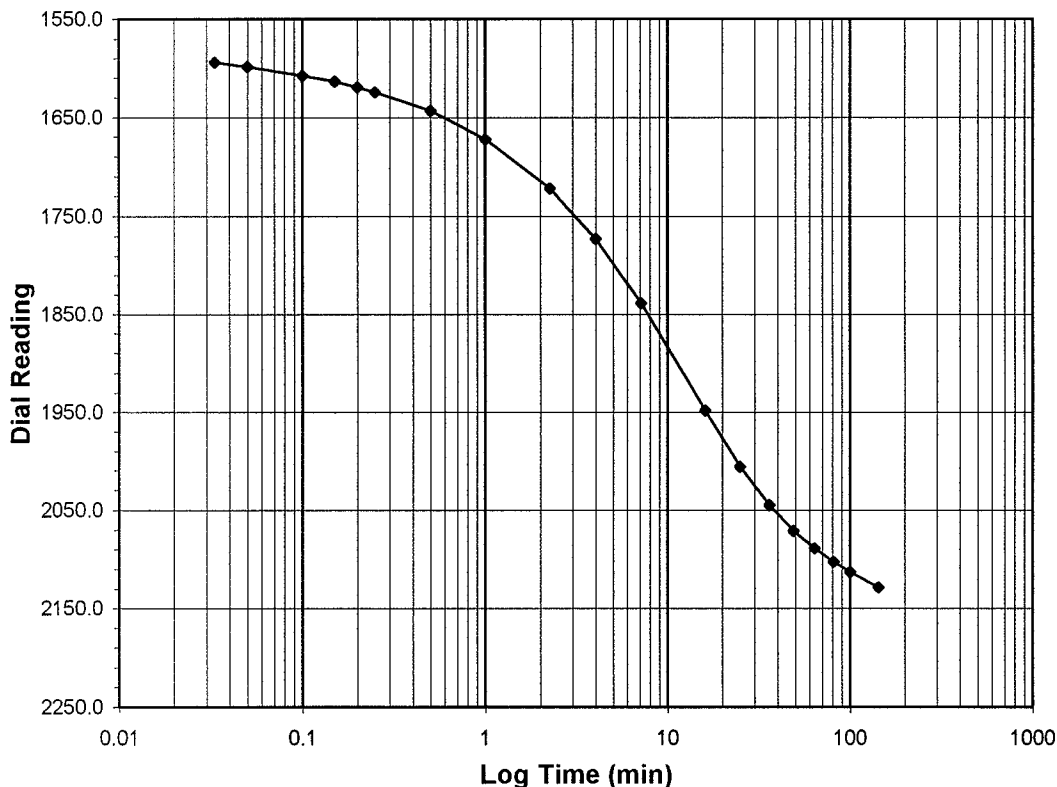
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 4.0-8.0
Final Reading (div) 2128.2
 Consolidometer No. **4**
 1 Division (in) **0.0001**

Start Date 10/25/05
Start Time 11:00:14

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	1560.4
0.03	1593.9
0.05	1597.9
0.10	1607.0
0.15	1613.0
0.20	1619.0
0.25	1624.5
0.50	1643.3
1.00	1672.6
2.25	1722.2
4.00	1772.5
7.17	1838.8
16.00	1948.2
25.00	2006.1
36.00	2045.1
49.00	2070.8
64.00	2088.7
81.02	2102.0
100.02	2112.6
144.00	2128.2



Tested By **TM** Date **10/25/05** Checked By **GU** Date **10/31/05**

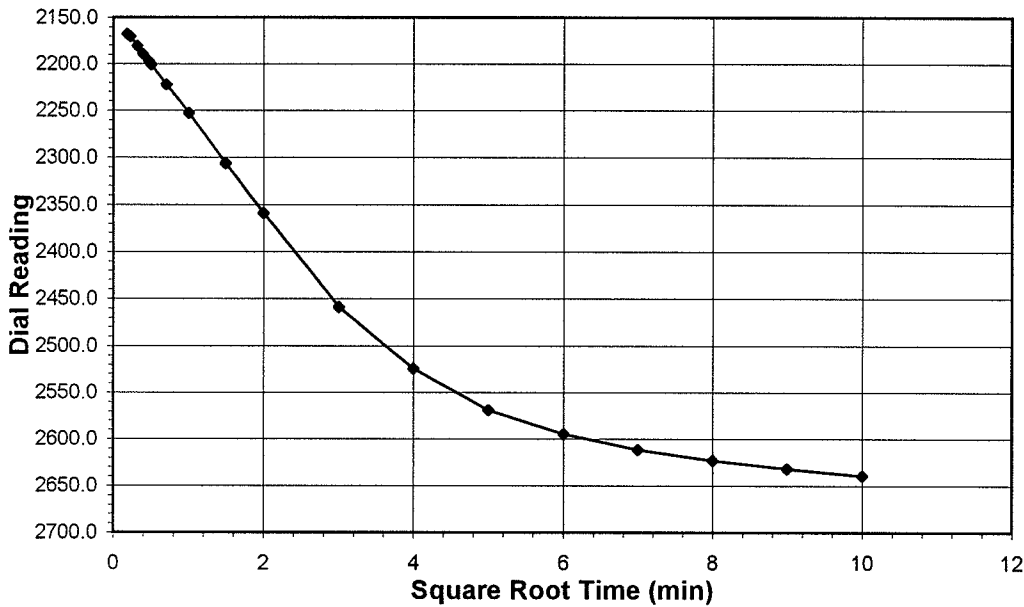
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-13**

Boring No. **GT-112**
 Depth (ft) **15.4-15.6**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

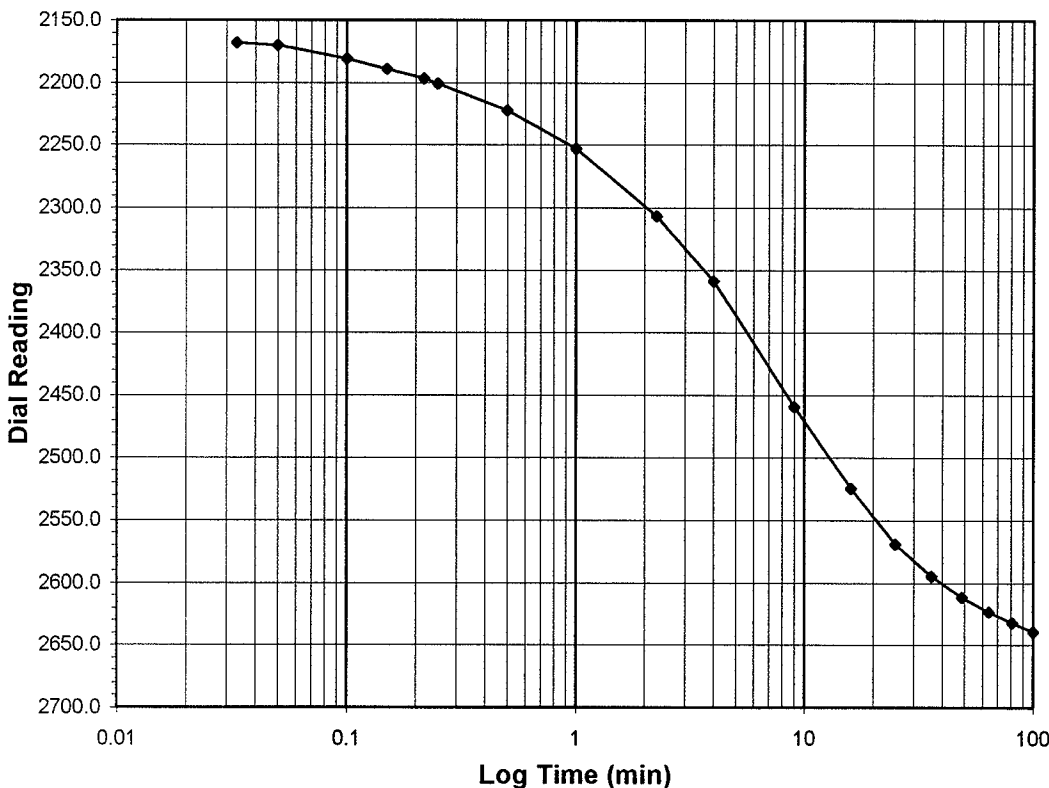
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 8.0-16.0
Final Reading (div) 2638.9
 Consolidometer No. **4**
 1 Division (in) **0.0001**

Start Date 10/25/05
Start Time 13:35:58

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	2128.2
0.03	2167.9
0.05	2170.1
0.10	2180.7
0.15	2188.9
0.22	2196.7
0.25	2200.6
0.50	2222.0
1.00	2252.8
2.25	2306.4
4.00	2358.7
9.02	2458.8
16.00	2524.3
25.00	2568.8
36.00	2594.7
49.00	2611.4
64.00	2623.0
81.00	2631.9
100.00	2638.9



Tested By **TM** Date **10/25/05** Checked By **GU** Date **10/31/05**

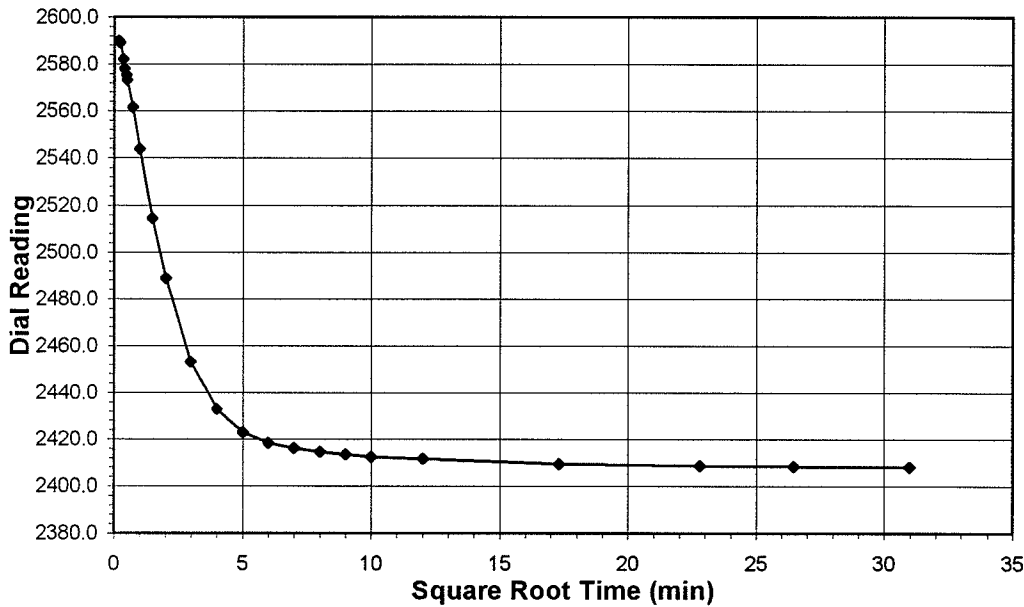
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-13**

Boring No. **GT-112**
 Depth (ft) **15.4-15.6**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

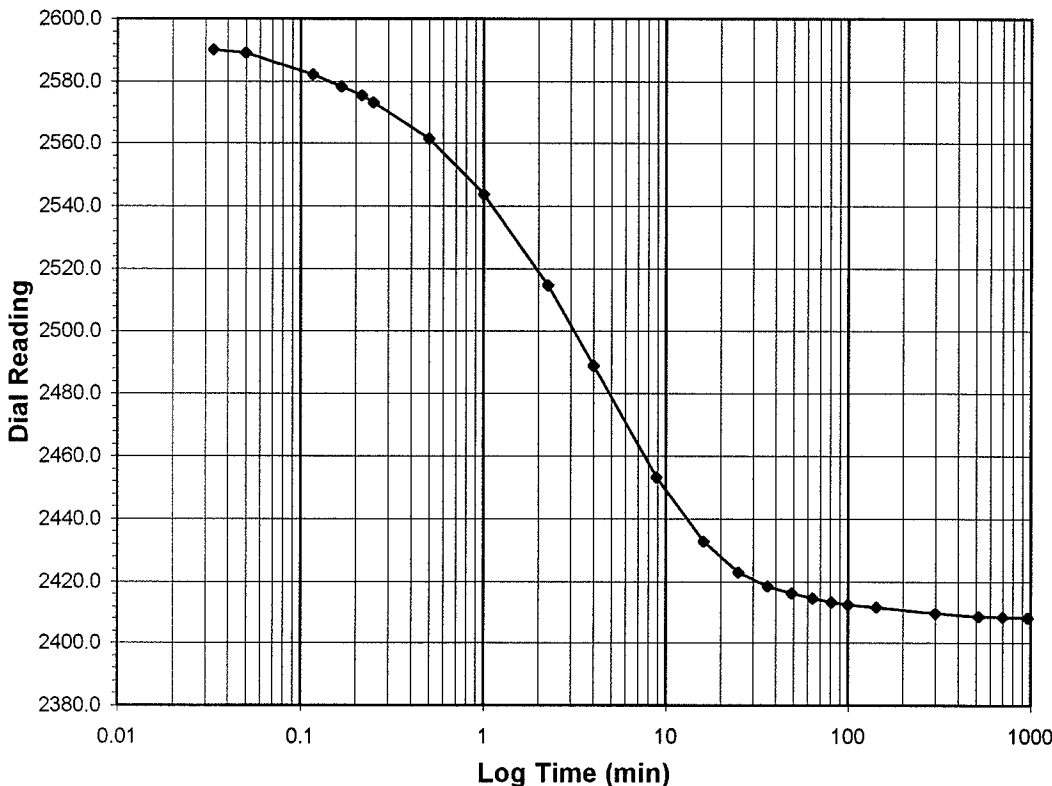
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 16.0-4.0
Final Reading (div) 2408.2
 Consolidometer No. **4**
 1 Division (in) **0.0001**

Start Date 10/25/05
Start Time 15:25:23

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	2638.9
0.03	2590.1
0.05	2589.1
0.12	2582.3
0.17	2578.2
0.22	2575.4
0.25	2573.2
0.50	2561.6
1.00	2543.7
2.25	2514.7
4.00	2488.9
8.88	2453.3
16.00	2432.9
25.00	2422.9
36.02	2418.4
49.00	2416.2
64.00	2414.7
81.00	2413.5
100.00	2412.6
144.00	2411.6
300.00	2409.6
520.00	2408.6
700.00	2408.5
960.00	2408.2



Tested By **TM** Date **10/25/05** Checked By **GO** Date **10/31/05**

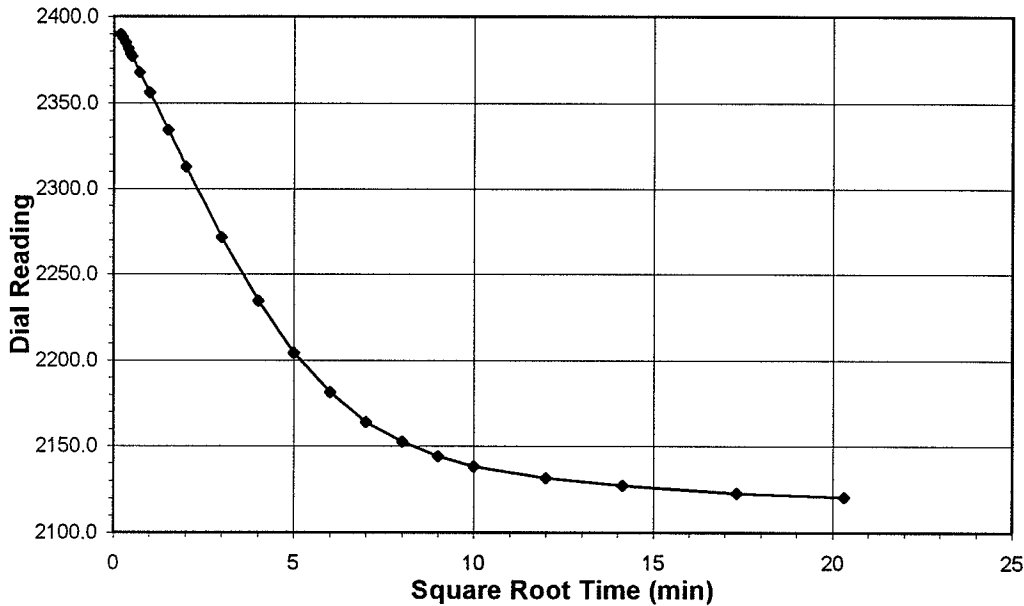
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-13**

Boring No. **GT-112**
 Depth (ft) **15.4-15.6**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

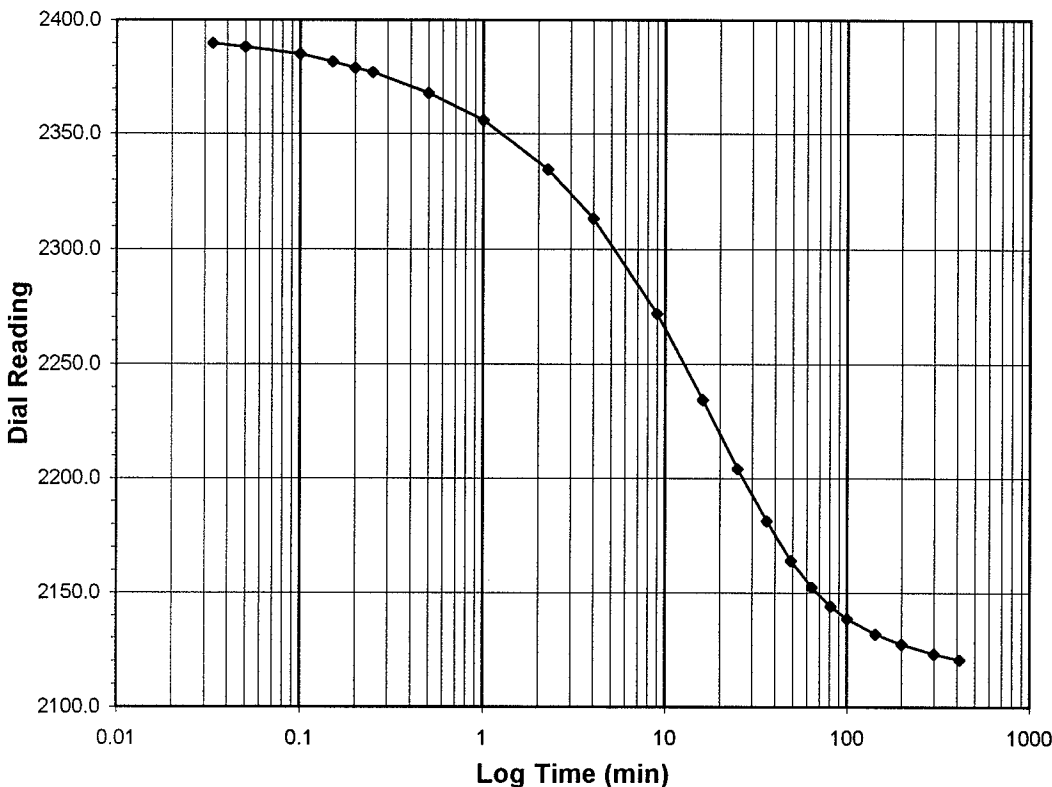
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) **4.0-1.0**
 Final Reading (div) **2120.6**
 Consolidometer No. **4**
 1 Division (in) **0.0001**

Start Date **10/26/05**
 Start Time **7:50:29**

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	2408.2
0.03	2390.1
0.05	2388.4
0.10	2385.1
0.15	2381.8
0.20	2379.2
0.25	2377.0
0.50	2368.0
1.00	2356.0
2.25	2334.6
4.00	2313.2
9.02	2271.7
16.00	2234.7
25.02	2204.3
36.00	2181.3
49.00	2164.2
64.00	2152.6
81.00	2144.2
100.00	2138.5
144.00	2131.8
199.73	2127.4
300.00	2123.0
412.95	2120.6



Tested By **TM** Date **10/26/05** Checked By **GU** Date **10/31/05**



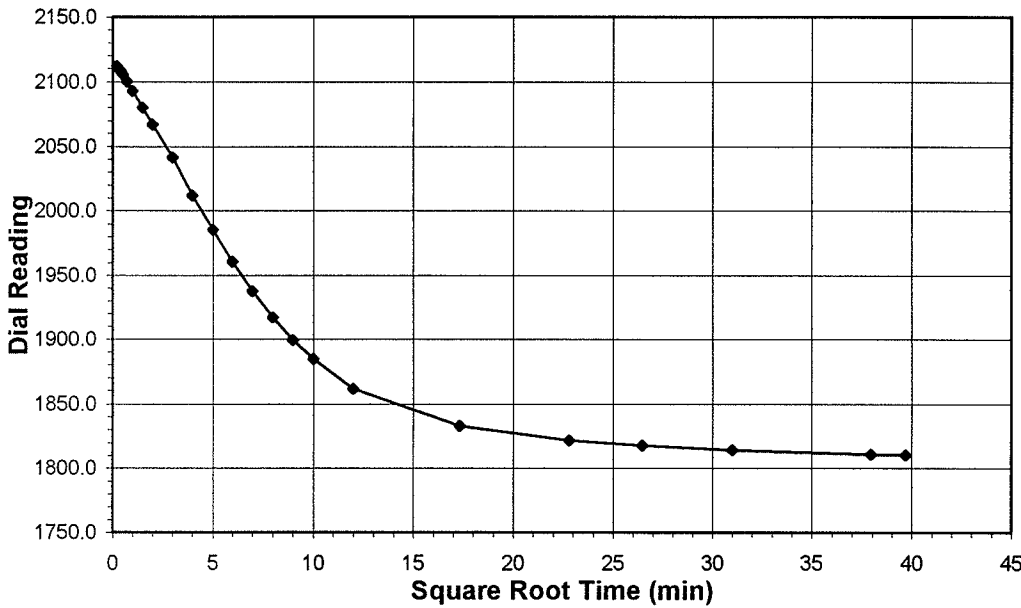
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE
 Client Project: GE PROCESSING FACILITY 20430.011
 Project No.: 2005-329-01
 Lab ID: 2005-329-01-13

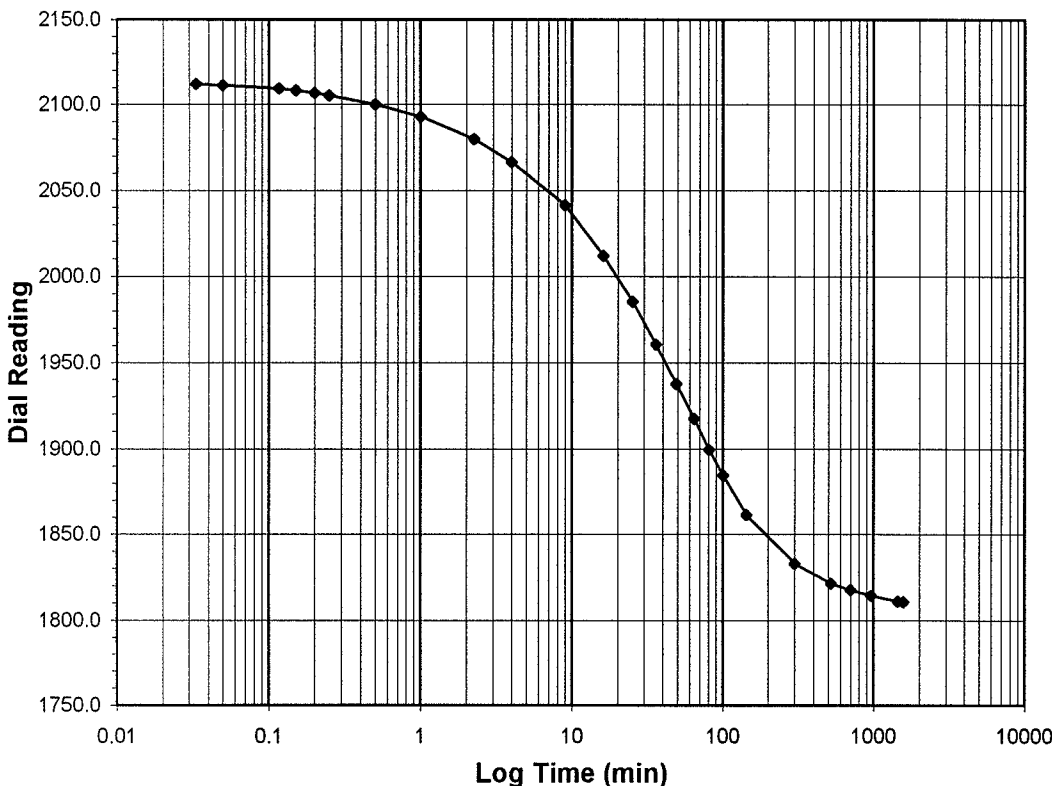
Boring No.: GT-112
 Depth (ft): 15.4-15.6
 Sample No.: ST-1
 Visual Description: SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 1.0-0.25
 Final Reading (div): 1810.5
 Consolidometer No.: 4
 1 Division (in): 0.0001
 Start Date: 10/26/05
 Start Time: 15:05:41

Elapsed Time (min)	Dial Reading (div)
Initial	2120.6
0.03	2112.1
0.05	2111.4
0.12	2109.4
0.15	2108.4
0.20	2106.9
0.25	2105.4
0.50	2100.3
1.00	2092.9
2.25	2080.0
4.00	2066.8
9.02	2041.4
16.02	2011.9
25.00	1985.5
36.00	1960.6
49.00	1937.6
64.00	1917.3
81.00	1899.6
100.00	1884.5
144.00	1861.8
300.00	1832.9
520.00	1821.6
700.00	1817.6
960.00	1814.4
1440.00	1811.2
1575.67	1810.5



Tested By: TM Date: 10/26/05 Checked By: GU Date: 10/31/05

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth (ft)	31.4-31.9
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-11	Visual Description	GRAY SILT (Minus No.4 sieve material, air-dried)

Replicate Number	1	2
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	742.84	732.78
Temperature, T (°Celsius)	25.7	25.4
Weight of Pycnometer + Water (gm)	680.53	670.04
Tare Number	705	960
Weight of Tare + Dry Soil (gm)	199.51	201.93
Weight of Tare (gm)	101.38	103.09
Weight of Dry Soil (gm)	98.13	98.84
Specific Gravity of Soil @ T	2.740	2.738
Specific Gravity of Water @ T	0.9969	0.9970
Conversion Factor for Temperature T	0.9987	0.9988
Specific Gravity @ 20° Celsius	2.743	2.741

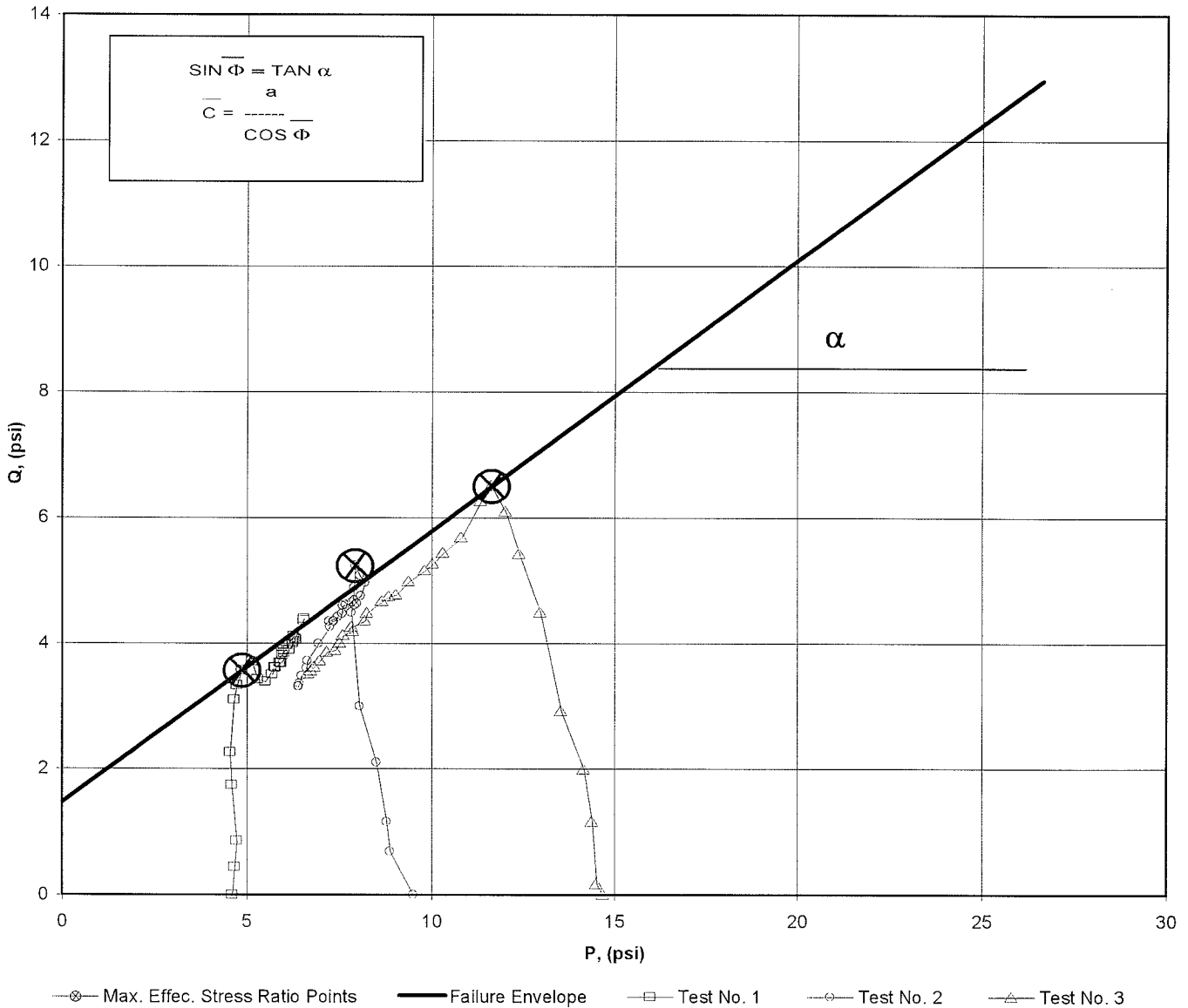
Average Specific Gravity @ 20° Celsius 2.74

Tested By TO Date 10/24/05 Checked By KJB Date 10-26-05

**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS
ASTM D4767-95 / AASHTO T297-94 (SOP-S28)**

Client	BLASLAND BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	31.0-33.0
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-11		

Consolidated Undrained Triaxial Test with Pore Pressure

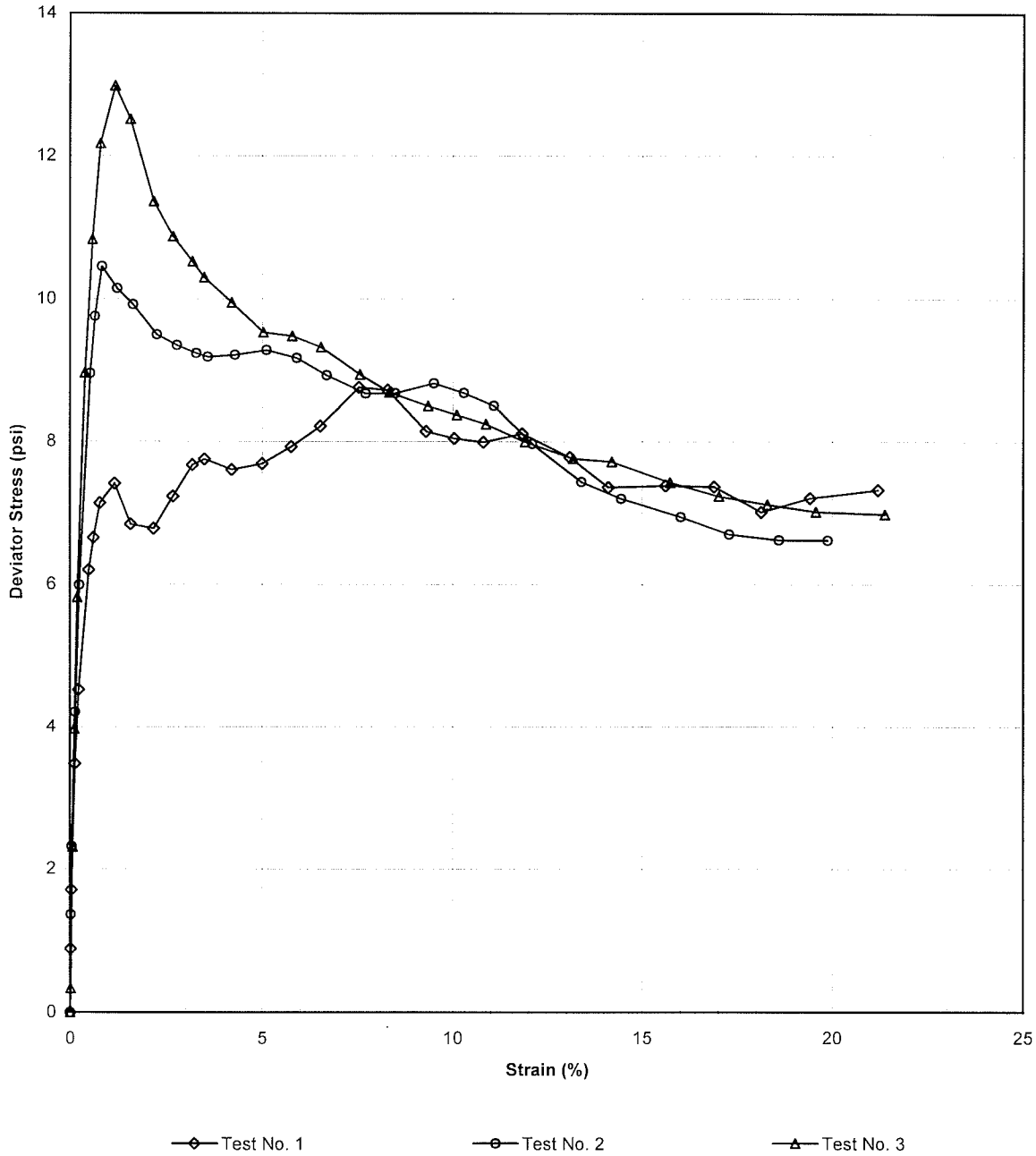


a	=	1.48	C	=	1.64
α	=	23.3	Φ	=	25.52

Tested By JCM Date 10/11/05 Approved By DB Date 10/19/05

**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS
ASTM D4767-95 / AASHTO T297-94 (SOP-S28)**

Client	BLASLAND BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	31.0-33.0
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-11		
Visual Description:	GRAY SOFT SILT (UNDISTURBED)		



Tested By JCM Date 10/11/05 Approved By *DB* Date *10/19/05*

**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS**
ASTM D4767-95 / AASHTO T297-94 (SOP-S28)



Client	BLASLAND BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	31.4-31.9
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-11		

Visual Description: GRAY SOFT SILT (UNDISTURBED)

Stage No.	1
Test No	1

INITIAL SAMPLE DIMENSIONS (in)

Length 1	5.922	Diameter 1	2.890
Length 2	5.924	Diameter 2	2.889
Length 3	5.933	Diameter 3	2.890
Avg Leng.=	5.926	Avg. Diam.=	2.890

PRESSURES (psi)

Cell Pressure(psi)	44.8
Back Pressure(psi)	40.2
Eff. Cons. Pressure(psi)	4.6
Pore Pressure	
Response (%)	99

VOLUME CHANGE

Initial Burette Reading (ml)	24.0
Final Burette Reading (ml)	20.2
Final Change (ml)	3.8

MAXIMUM OBLIQUITY POINTS

P	=	4.86
Q	=	3.57

Initial Dial Reading (D.R.), mils	68
D.R. After Saturation, mils	78
D.R. After Consolidation, mils	95

LOAD (LBS)	DEFORMATION (INCHES)	PORE PRESSURE (PSI)
9.8	0.000	40.2
15.6	0.001	40.6
21.0	0.002	40.9
32.5	0.008	42.0
39.3	0.013	42.5
50.4	0.029	43.3
53.4	0.036	43.4
56.7	0.046	43.5
58.7	0.069	43.4
55.1	0.093	42.9
55.0	0.128	42.7
58.2	0.158	42.7
61.5	0.188	42.7
62.2	0.206	42.7
61.5	0.248	42.7
62.5	0.295	42.6
64.6	0.340	42.7
67.1	0.385	42.6
71.6	0.445	42.6
71.8	0.489	42.6
68.3	0.549	42.6
68.1	0.592	42.6
68.2	0.637	42.6
69.8	0.698	42.5
68.2	0.773	42.5
65.6	0.833	42.6
66.8	0.921	42.6
67.6	0.997	42.6
65.6	1.070	42.6
68.1	1.146	42.6
70.4	1.251	42.7

Tested By JCM Date 10/11/05 Input Checked By *KB* Date 10-20-05

CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS
ASTM D4767-95 / AASHTO T297-94 (SOP-S28)



Client	BLASLAND BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	31.4-31.9
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-11		

Visual Description: GRAY SOFT SILT (UNDISTURBED)

Effective Confining Pressure (psi)	4.6	Stage No.	1
		Test No	1

INITIAL DIMENSIONS

Initial Sample Length (in.)	5.93
Initial Sample Diameter (in.)	2.89
Initial Sample Area (in ²)	6.56
Initial Sample Volume (in ³)	38.87

VOLUME CHANGE

Volume After Consolidation (in ³)	38.44
Length After Consolidation (in)	5.90
Area After Consolidation (in ²)	6.516

Strain (%)	Deviation Stress	Δ U	σ ₁	σ ₃	Effective Principle Stress Ratio	A	P	Q
0.01	0.89	0.38	5.11	4.2	1.211	0.43	4.66	0.45
0.03	1.71	0.74	5.58	3.9	1.443	0.43	4.72	0.86
0.13	3.48	1.75	6.33	2.8	2.222	0.51	4.59	1.74
0.22	4.52	2.31	6.81	2.3	2.973	0.52	4.55	2.26
0.49	6.20	3.05	7.75	1.5	5.004	0.50	4.65	3.10
0.61	6.65	3.20	8.05	1.4	5.756	0.49	4.72	3.33
0.79	7.14	3.31	8.42	1.3	6.544	0.47	4.86	3.57
1.17	7.41	3.17	8.84	1.4	6.182	0.43	5.14	3.71
1.57	6.84	2.73	8.71	1.9	4.666	0.40	5.29	3.42
2.17	6.78	2.50	8.89	2.1	4.223	0.37	5.50	3.39
2.68	7.23	2.48	9.35	2.1	4.414	0.35	5.73	3.62
3.18	7.68	2.49	9.79	2.1	4.638	0.33	5.95	3.84
3.49	7.76	2.49	9.87	2.1	4.671	0.32	5.99	3.88
4.21	7.61	2.45	9.75	2.1	4.544	0.33	5.95	3.80
5.00	7.69	2.45	9.84	2.2	4.572	0.32	6.00	3.85
5.76	7.93	2.47	10.06	2.1	4.728	0.31	6.09	3.97
6.53	8.22	2.45	10.37	2.2	4.817	0.30	6.26	4.11
7.54	8.77	2.44	10.92	2.2	5.062	0.28	6.54	4.38
8.29	8.72	2.43	10.89	2.2	5.019	0.28	6.53	4.36
9.30	8.15	2.38	10.37	2.2	4.670	0.30	6.29	4.07
10.04	8.05	2.38	10.27	2.2	4.626	0.30	6.24	4.02
10.81	7.99	2.37	10.23	2.2	4.585	0.30	6.23	4.00
11.83	8.11	2.34	10.38	2.3	4.587	0.29	6.32	4.06
13.10	7.78	2.34	10.04	2.3	4.451	0.30	6.15	3.89
14.11	7.36	2.37	9.59	2.2	4.299	0.33	5.91	3.68
15.62	7.38	2.40	9.59	2.2	4.350	0.33	5.89	3.69
16.90	7.37	2.41	9.55	2.2	4.369	0.33	5.87	3.68
18.15	7.01	2.43	9.18	2.2	4.233	0.35	5.67	3.51
19.43	7.21	2.44	9.36	2.2	4.343	0.34	5.76	3.60
21.21	7.32	2.46	9.47	2.1	4.414	0.34	5.81	3.66

Tested By JCM Date 10/11/05 Input Checked By *YKB* Date 10-20-05

**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS**

ASTM D4767-95 / AASHTO T297-94 (SOP-S28)



Client	BLASLAND BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	31.9-32.4
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-11		

Visual Description: GRAY SOFT SILT (UNDISTURBED)

Stage No.	1
Test No	2

INITIAL SAMPLE DIMENSIONS (in)

Length 1	5.892	Diameter 1	2.890
Length 2	5.882	Diameter 2	2.887
Length 3	5.897	Diameter 3	2.887
Avg Leng.=	5.890	Avg. Diam.=	2.888

PRESSURES (psi)

Cell Pressure(psi)	49.6
Back Pressure(psi)	40.1
Eff. Cons. Pressure(psi)	9.5
Pore Pressure Response (%)	99

VOLUME CHANGE

Initial Burette Reading (ml)	48.0
Final Burette Reading (ml)	41.7
Final Change (ml)	6.3

MAXIMUM OBLIQUITY POINTS

P	=	7.92
Q	=	5.23

Initial Dial Reading (D.R.), mils	66
D.R. After Saturation, mils	87
D.R. After Consolidation, mils	126

LOAD (LBS)	DEFORMATION (INCHES)	PORE PRESSURE (PSI)
9.3	0.000	40.1
18.2	0.001	41.4
24.3	0.003	42.0
36.6	0.008	43.2
48.2	0.014	44.5
67.7	0.030	46.3
73.0	0.038	46.6
77.6	0.049	46.9
75.9	0.071	46.6
74.7	0.095	46.4
72.3	0.131	46.3
71.6	0.161	46.4
71.2	0.191	46.2
71.0	0.209	46.3
71.7	0.250	46.5
72.7	0.298	46.4
72.5	0.344	46.6
71.4	0.390	46.5
70.2	0.450	46.6
70.8	0.495	46.6
72.5	0.554	46.6
72.0	0.600	46.7
71.3	0.646	46.6
68.1	0.705	46.7
65.0	0.781	46.7
63.8	0.842	46.6
62.9	0.934	46.6
61.8	1.008	46.5
62.0	1.085	46.5
62.8	1.159	46.5

Tested By JCM Date 10/11/05 Input Checked By *KVB* Date 10-20-05

**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS**
ASTM D4767-95 / AASHTO T297-94 (SOP-S28)



Client	BLASLAND BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	31.9-32.4
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-11		

Visual Description: GRAY SOFT SILT (UNDISTURBED)

Effective Confining Pressure (psi)	9.5	Stage No.	1
		Test No	2

INITIAL DIMENSIONS

Initial Sample Length (in.)	5.89
Initial Sample Diameter (in.)	2.89
Initial Sample Area (in ²)	6.55
Initial Sample Volume (in ³)	38.59

VOLUME CHANGE

Volume After Consolidation (in ³)	37.79
Length After Consolidation (in)	5.83
Area After Consolidation (in ²)	6.481

Strain (%)	Deviation Stress	ΔU	$\bar{\sigma}_1$	$\bar{\sigma}_3$	Effective Principle Stress Ratio	\bar{A}	\bar{P}	Q
0.02	1.37	1.31	9.56	8.2	1.167	0.96	8.88	0.68
0.04	2.31	1.87	9.94	7.6	1.303	0.82	8.79	1.16
0.14	4.21	3.09	10.62	6.4	1.656	0.74	8.52	2.10
0.24	5.99	4.45	11.04	5.1	2.185	0.75	8.05	2.99
0.52	8.96	6.16	12.29	3.3	3.684	0.69	7.82	4.48
0.65	9.76	6.49	12.77	3.0	4.247	0.67	7.89	4.88
0.83	10.46	6.81	13.15	2.7	4.880	0.66	7.92	5.23
1.22	10.15	6.53	13.12	3.0	4.419	0.65	8.04	5.08
1.63	9.92	6.27	13.15	3.2	4.072	0.64	8.19	4.96
2.26	9.50	6.18	12.82	3.3	3.857	0.66	8.07	4.75
2.77	9.35	6.28	12.57	3.2	3.904	0.68	7.90	4.68
3.28	9.24	6.15	12.59	3.4	3.756	0.67	7.97	4.62
3.58	9.19	6.18	12.50	3.3	3.769	0.68	7.91	4.59
4.29	9.21	6.44	12.27	3.1	4.012	0.71	7.67	4.61
5.11	9.28	6.31	12.47	3.2	3.908	0.69	7.83	4.64
5.90	9.17	6.49	12.18	3.0	4.047	0.71	7.59	4.58
6.69	8.93	6.39	12.05	3.1	3.870	0.72	7.58	4.47
7.71	8.68	6.50	11.68	3.0	3.888	0.76	7.34	4.34
8.49	8.68	6.50	11.68	3.0	3.894	0.76	7.34	4.34
9.50	8.82	6.45	11.86	3.0	3.896	0.74	7.46	4.41
10.29	8.68	6.62	11.56	2.9	4.018	0.77	7.22	4.34
11.08	8.51	6.51	11.49	3.0	3.848	0.77	7.24	4.25
12.10	7.97	6.55	10.91	2.9	3.705	0.83	6.93	3.98
13.40	7.44	6.60	10.34	2.9	3.560	0.90	6.62	3.72
14.45	7.20	6.49	10.21	3.0	3.393	0.91	6.61	3.60
16.01	6.94	6.49	9.95	3.0	3.308	0.94	6.48	3.47
17.29	6.70	6.43	9.76	3.1	3.185	0.97	6.42	3.35
18.61	6.62	6.42	9.70	3.1	3.153	0.98	6.39	3.31
19.88	6.62	6.42	9.70	3.1	3.145	0.98	6.39	3.31

Tested By JCM Date 10/11/05 Input Checked By *YKB* Date 10-20-05

**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS**

ASTM D4767-95 / AASHTO T297-94 (SOP-S28)

Client	BLASLAND BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	31.4-31.9
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-11		

Visual Description: GRAY SOFT SILT (UNDISTURBED)

Stage No.	1
Test No	3

INITIAL SAMPLE DIMENSIONS (in)

Length 1	5.982	Diameter 1	2.890
Length 2	5.985	Diameter 2	2.889
Length 3	5.979	Diameter 3	2.896
Avg Leng.=	5.982	Avg. Diam.=	2.892

PRESSURES (psi)

Cell Pressure(psi)	55.0
Back Pressure(psi)	40.3
Eff. Cons. Pressure(ps	14.7
Pore Pressure	
Response (%)	98

VOLUME CHANGE

Initial Burette Reading (ml)	72.0
Final Burette Reading (ml)	54.6
Final Change (ml)	17.4

MAXIMUM OBLIQUITY POINTS

\bar{P}	=	11.64
Q	=	6.49

Initial Dial Reading (D.R.), mils	38
D.R. After Saturation, mils	58
D.R. After Consolidation, mils	122

LOAD (LBS)	DEFORMATION (INCHES)	PORE PRESSURE (PSI)
12.4	0.000	40.3
14.5	0.001	40.7
27.2	0.004	41.8
37.9	0.007	42.8
49.8	0.011	44.4
70.2	0.023	46.5
82.3	0.034	48.0
91.1	0.047	49.1
96.7	0.069	49.9
93.9	0.092	49.9
86.9	0.128	49.9
84.1	0.158	50.1
82.1	0.188	50.2
80.8	0.206	50.3
79.0	0.248	50.6
76.8	0.296	50.7
76.9	0.341	50.9
76.4	0.386	51.0
74.4	0.446	51.2
73.2	0.492	51.2
72.5	0.552	51.4
72.1	0.596	51.3
71.7	0.642	51.5
70.6	0.702	51.5
69.7	0.778	51.5
70.1	0.837	51.7
68.9	0.928	51.7
68.3	1.004	51.8
68.3	1.080	51.8
68.4	1.155	51.9
69.4	1.261	51.9

Tested By JCM Date 10/11/05 Input Checked By *YJB* Date 10-20-05



**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS**
ASTM D4767-95 / AASHTO T297-94 (SOP-S28)

Client	BLASLAND BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	31.4-31.9
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-11		

Visual Description: GRAY SOFT SILT (UNDISTURBED)

Effective Confining Pressure (psi)	14.7	Stage No.	1
		Test No	3

INITIAL DIMENSIONS

Initial Sample Length (in.)	5.98
Initial Sample Diameter (in.)	2.89
Initial Sample Area (in ²)	6.57
Initial Sample Volume (in ³)	39.29

VOLUME CHANGE

Volume After Consolidation (in ³)	37.83
Length After Consolidation (in)	5.90
Area After Consolidation (in ²)	6.414

Strain (%)	Deviation Stress	ΔU	$\bar{\sigma}_1$	$\bar{\sigma}_3$	Effective Principle Stress Ratio	\bar{A}	\bar{P}	Q
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0.02	0.33	0.35	14.68	14.3	1.023	1.07	14.52	0.17
0.07	2.31	1.46	15.55	13.2	1.174	0.64	14.40	1.15
0.11	3.97	2.51	16.16	12.2	1.326	0.65	14.17	1.99
0.19	5.82	4.05	16.46	10.6	1.546	0.71	13.55	2.91
0.38	8.97	6.21	17.46	8.5	2.057	0.71	12.97	4.48
0.58	10.84	7.71	17.83	7.0	2.551	0.73	12.41	5.42
0.80	12.17	8.76	18.11	5.9	3.051	0.73	12.02	6.09
1.17	12.98	9.55	18.13	5.1	3.522	0.75	11.64	6.49
1.57	12.51	9.61	17.60	5.1	3.461	0.78	11.34	6.26
2.17	11.37	9.57	16.50	5.1	3.216	0.86	10.81	5.68
2.67	10.88	9.81	15.76	4.9	3.225	0.92	10.33	5.44
3.18	10.52	9.92	15.30	4.8	3.203	0.96	10.04	5.26
3.49	10.30	10.03	14.97	4.7	3.205	0.99	9.82	5.15
4.20	9.95	10.29	14.36	4.4	3.255	1.06	9.39	4.97
5.03	9.53	10.42	13.81	4.3	3.230	1.12	9.04	4.77
5.78	9.48	10.59	13.58	4.1	3.308	1.14	8.84	4.74
6.55	9.32	10.71	13.32	4.0	3.334	1.17	8.65	4.66
7.56	8.94	10.92	12.72	3.8	3.365	1.25	8.25	4.47
8.34	8.69	10.85	12.54	3.8	3.258	1.27	8.20	4.35
9.35	8.50	11.12	12.08	3.6	3.372	1.33	7.83	4.25
10.11	8.37	11.02	12.05	3.7	3.275	1.34	7.87	4.19
10.88	8.25	11.22	11.73	3.5	3.367	1.39	7.61	4.12
11.90	8.00	11.19	11.51	3.5	3.275	1.43	7.51	4.00
13.18	7.76	11.19	11.27	3.5	3.209	1.47	7.39	3.88
14.20	7.72	11.39	11.02	3.3	3.334	1.51	7.17	3.86
15.73	7.43	11.44	10.69	3.3	3.277	1.57	6.97	3.71
17.02	7.23	11.50	10.44	3.2	3.257	1.62	6.82	3.62
18.30	7.12	11.53	10.29	3.2	3.244	1.65	6.73	3.56
19.58	7.02	11.56	10.16	3.1	3.234	1.68	6.65	3.51
21.39	6.98	11.61	10.08	3.1	3.256	1.70	6.59	3.49

Tested By JCM Date 10/11/05 Input Checked By *HYB* Date 10-20-05

**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS**

ASTM D4767-95 / AASHTO T297-94 (SOP-S28)

Client	BLASLAND, BOUCK, & LEE		
Client Reference	GE PROCESSING FACILITY 20430.011		
Project No.	2005-329-01		
Lab ID	2005-329-01-11	Specific Gravity (assumed)	2.7
Visual Description:	GRAY SOFT SILT (UNDISTURBED)		

SAMPLE CONDITION SUMMARY

	GT-113	GT-113	GT-113
Boring No.	GT-113	GT-113	GT-113
Depth (ft)	31.4-31.9	31.9-32.4	32.4-32.9
Sample No.	ST-1	ST-1	ST-1
Test No.	T1	T2	T3
Deformation Rate (in/min)	0.002	0.002	0.002
Back Pressure (psi)	40.2	40.1	40.3
Consolidation Time (days)	1	1	1
Initial State (w%)	48.4	48.4	48.4
Total Unit Weight (pcf)	103.2	102.2	101.4
Dry Unit Weight (pcf)	69.5	68.9	68.3
Final State (w%)	57.7	62.2	60.6
Initial State Void Ratio, e	1.424	1.448	1.467

Tested By JCM Date 10/11/05 Input Checked By *YRB* Date *10-18-05*
 page 1 of 1 DCN: CT-S28 DATE 6-25-98 REVISION: 1 C:\MSOFFICE\EXCEL\PrintQ[D23.xls]Sheet1

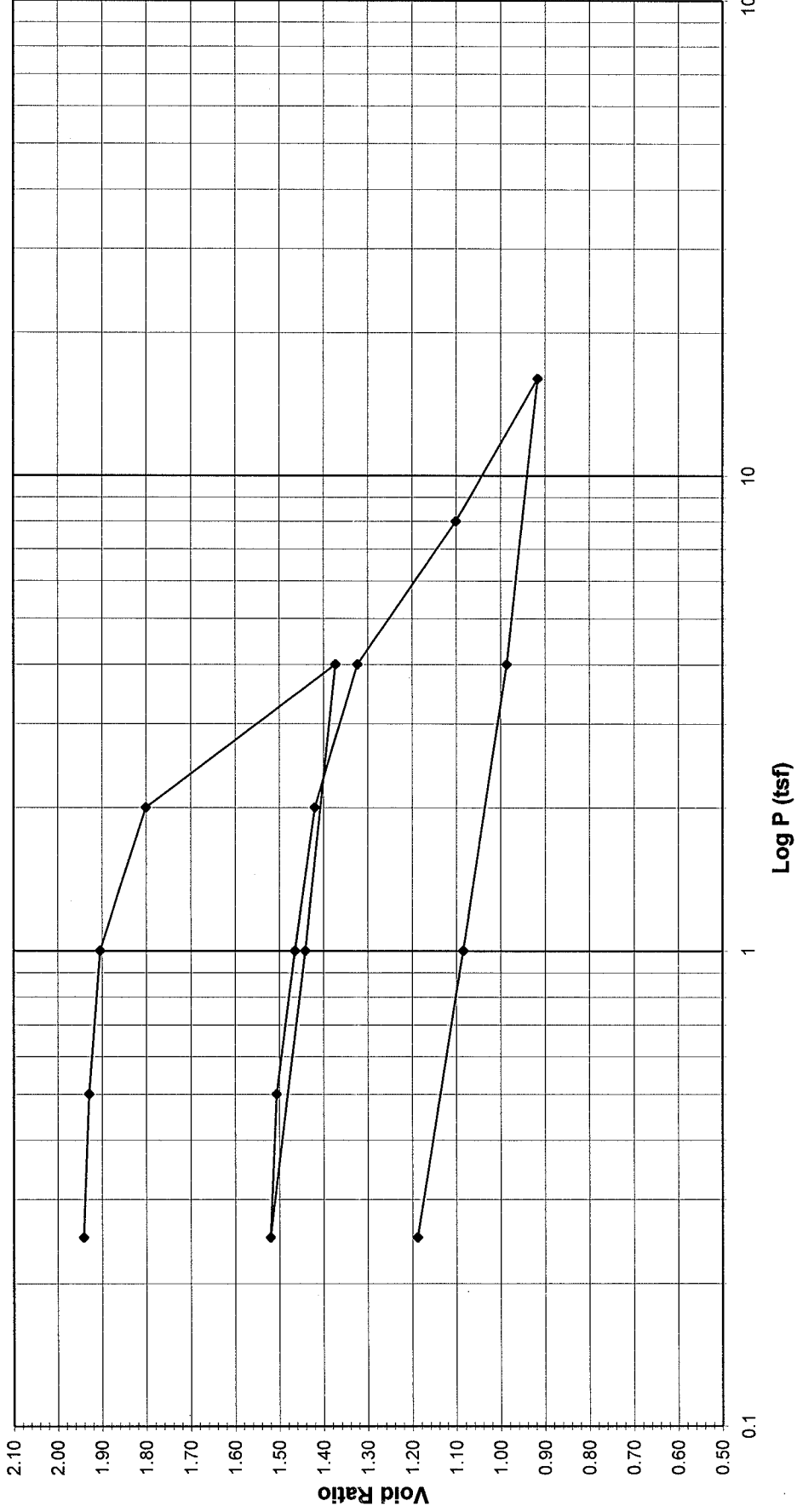


ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-113
Client Reference	GE PROCESSING FACILITY 20430.011	Depth (ft)	31.2-31.4
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-11	Visual Description	GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED





ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-113
Client Reference	GE PROCESSING FACILITY 20430.011	Depth (ft)	31.2-31.4
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-11	Visual Description	GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED

Consolidometer No. 3

1 Division = 0.0001 (in)

Sample Properties

	Initial	Final
<i>Water Content</i>		T-16
Tare Number	40	
Wt. Tare & VVS (gm)	164.93	196.45
Wt. Tare & DS (gm)	139.25	161.67
Wt. Water (gm)	25.68	34.78
Wt. Tare (gm)	101.53	92.72
Wt. DS (gm)	37.72	68.95
Water Content (%)	68.08	50.44

Sample Parameters

Sample Diameter (in)	2.5	2.5
Sample Height (in)	1	0.734
Sample Volume (cc)	80.44	59.02
Wt. Wet Sample + Ring (gm)	270.08	257.05
Wt. of Ring (gm)	145.87	145.87
Wt. of Wet Sample (gm)	124.21	111.18
Wet Density (pcf)	96.35	117.54
Wet Density (g/cc)	1.54	1.88
Water Content (%)	68.08	50.44
Wt. of Dry Sample (gm)	73.90	73.90
Dry Density (pcf)	57.33	78.13
Dry Density (g/cc)	0.92	1.25
Void Ratio	1.9825	1.1884
Saturation (%)	94.09	116.30
Specific Gravity	2.74	Measured

Test Data Summary

Applied Pressure (tsf)	Final Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	25.400	80.440	0.91869	1.98251
0.25	141.5	2.0	139.5	25.046	79.318	0.93168	1.94092
0.5	186.4	6.2	180.2	24.942	78.990	0.93555	1.92876
1	274.0	11.8	262.2	24.734	78.330	0.94343	1.90430
2	629.7	21.1	608.7	23.854	75.544	0.97823	1.80098
4	2080.0	34.6	2045.4	20.205	63.986	1.15492	1.37247
1	1833.2	18.4	1814.8	20.790	65.842	1.12238	1.44125
0.25	1557.9	6.7	1551.2	21.460	67.962	1.08735	1.51988
0.5	1606.8	9.5	1597.3	21.343	67.591	1.09332	1.50612
1	1751.3	14.3	1737.0	20.988	66.467	1.11181	1.46444
2	1910.3	22.9	1887.4	20.606	65.257	1.13243	1.41958
4	2246.1	35.2	2210.9	19.784	62.655	1.17946	1.32310
8	3002.3	46.7	2955.6	17.893	56.665	1.30414	1.10101
16	3634.8	58.4	3576.4	16.316	51.671	1.43017	0.91585
4	3383.9	42.7	3341.2	16.913	53.564	1.37965	0.98601
1	3030.8	22.1	3008.7	17.758	56.238	1.31405	1.08516
0.25	2672.4	9.9	2662.5	18.637	59.023	1.25205	1.18841

Tested By TM Date 10/11/05 Input Checked By CSU Date 10/27/05

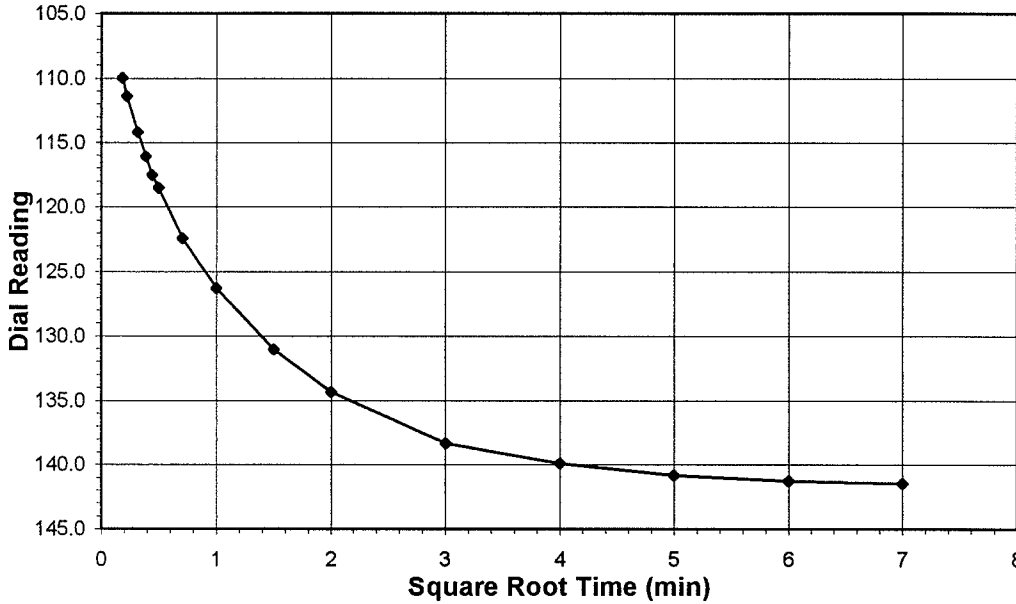
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-11**

Boring No. **GT-113**
 Depth (ft) **31.2-31.4**
 Sample No. **ST-1**
 Visual Description **GRAY CLAY**

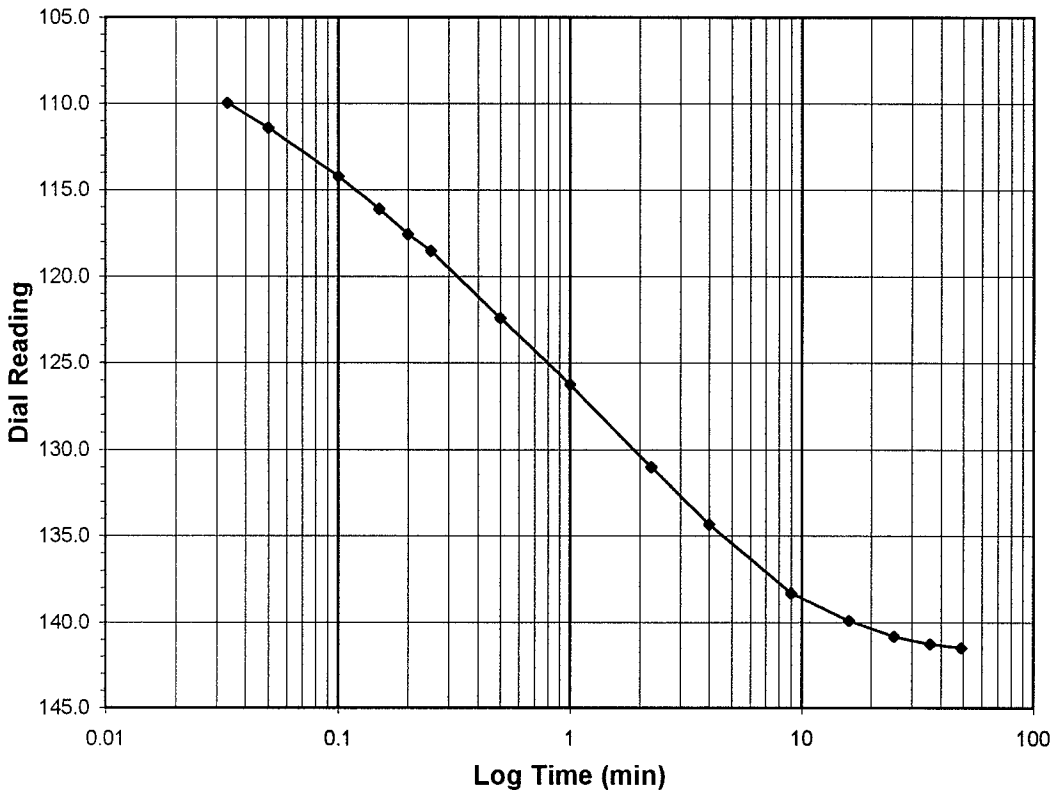
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) **0-0.25**
 Final Reading (div) **141.5**
 Consolidometer No. **3**
 1 Division (in) **0.0001**

Start Date **10/11/05**
 Start Time **12:41:27**

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	0.0
0.03	110.0
0.05	111.4
0.10	114.2
0.15	116.1
0.20	117.6
0.25	118.5
0.50	122.4
1.00	126.3
2.25	131.0
4.00	134.4
9.02	138.3
16.00	139.9
25.00	140.8
36.00	141.3
49.00	141.5



Tested By **TM** Date **10/11/05** Checked By **(S)** Date **10/27/05**



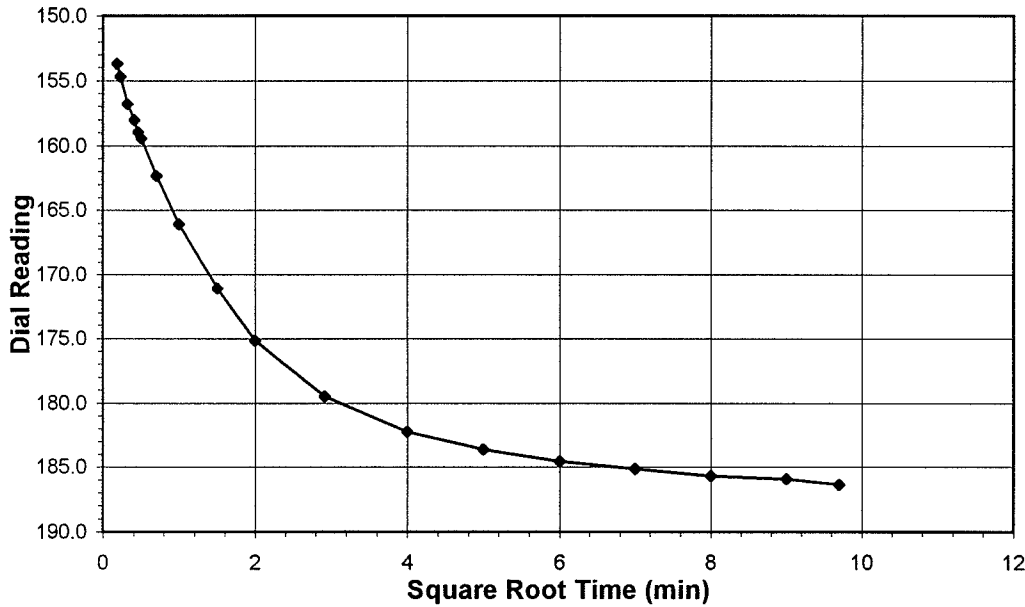
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE
 Client Project: GE PROCESSING FACILITY 20430.011
 Project No.: 2005-329-01
 Lab ID: 2005-329-01-11

Boring No.: GT-113
 Depth (ft): 31.2-31.4
 Sample No.: ST-1
 Visual Description: GRAY CLAY

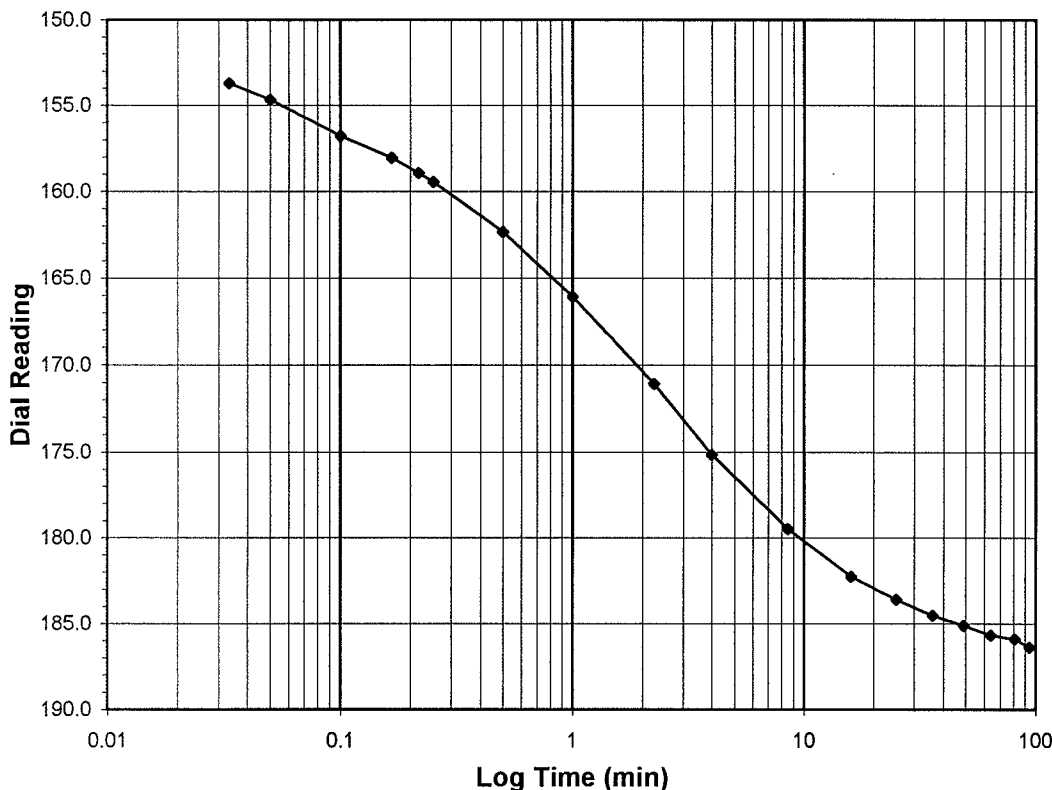
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0.25-0.5
 Final Reading (div): 186.4
 Consolidometer No.: 3
 1 Division (in): 0.0001

Start Date: 10/11/05
 Start Time: 13:50:27

Elapsed Time (min)	Dial Reading (div)
Initial	141.5
0.03	153.7
0.05	154.7
0.10	156.8
0.17	158.0
0.22	158.9
0.25	159.4
0.50	162.3
1.00	166.1
2.25	171.1
4.00	175.2
8.50	179.5
16.00	182.3
25.00	183.6
36.00	184.5
49.00	185.1
64.00	185.7
81.00	185.9
94.13	186.4



Tested By: TM Date: 10/11/05 Checked By: GJ Date: 10/27/05

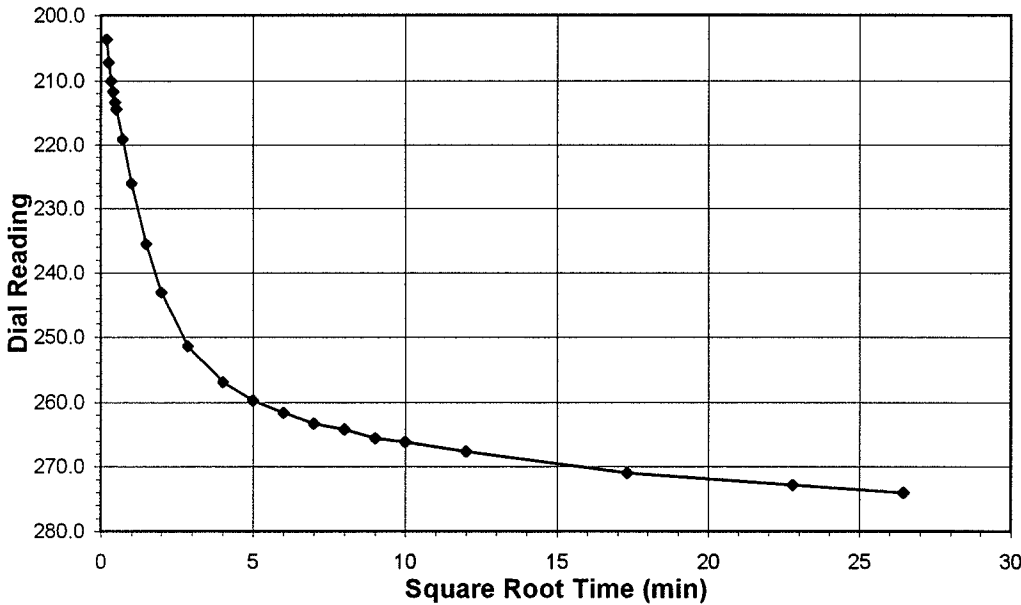
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-11**

Boring No. **GT-113**
 Depth (ft) **31.2-31.4**
 Sample No. **ST-1**
 Visual Description **GRAY CLAY**

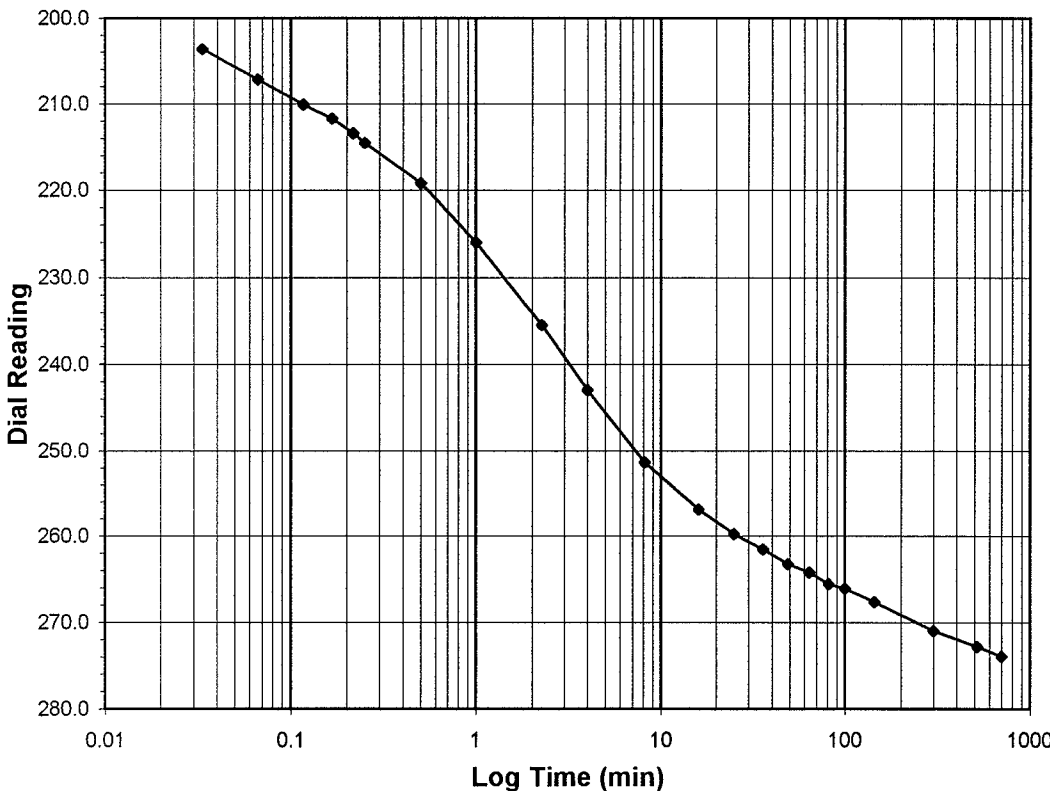
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.5-1.0
Final Reading (div) 274.0
 Consolidometer No. **3**
 1 Division (in) **0.0001**

Start Date 10/11/05
Start Time 15:28:45

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	186.4
0.03	203.6
0.07	207.2
0.12	210.0
0.17	211.7
0.22	213.4
0.25	214.5
0.50	219.2
1.00	226.0
2.25	235.5
4.00	243.0
8.14	251.4
16.02	256.9
25.00	259.8
36.00	261.6
49.00	263.3
64.00	264.2
81.00	265.6
100.00	266.1
144.00	267.6
300.00	271.0
520.00	272.8
700.00	274.0



Tested By **TM** Date **10/11/05** Checked By **GO** Date **10/27/05**

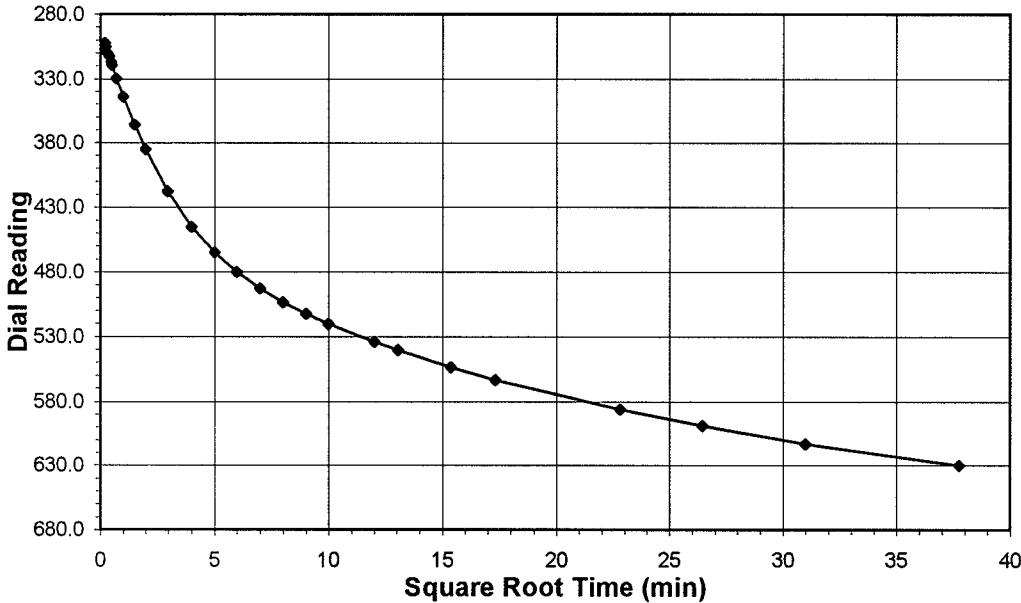
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-11**

Boring No. **GT-113**
 Depth (ft) **31.2-31.4**
 Sample No. **ST-1**
 Visual Description **GRAY CLAY**

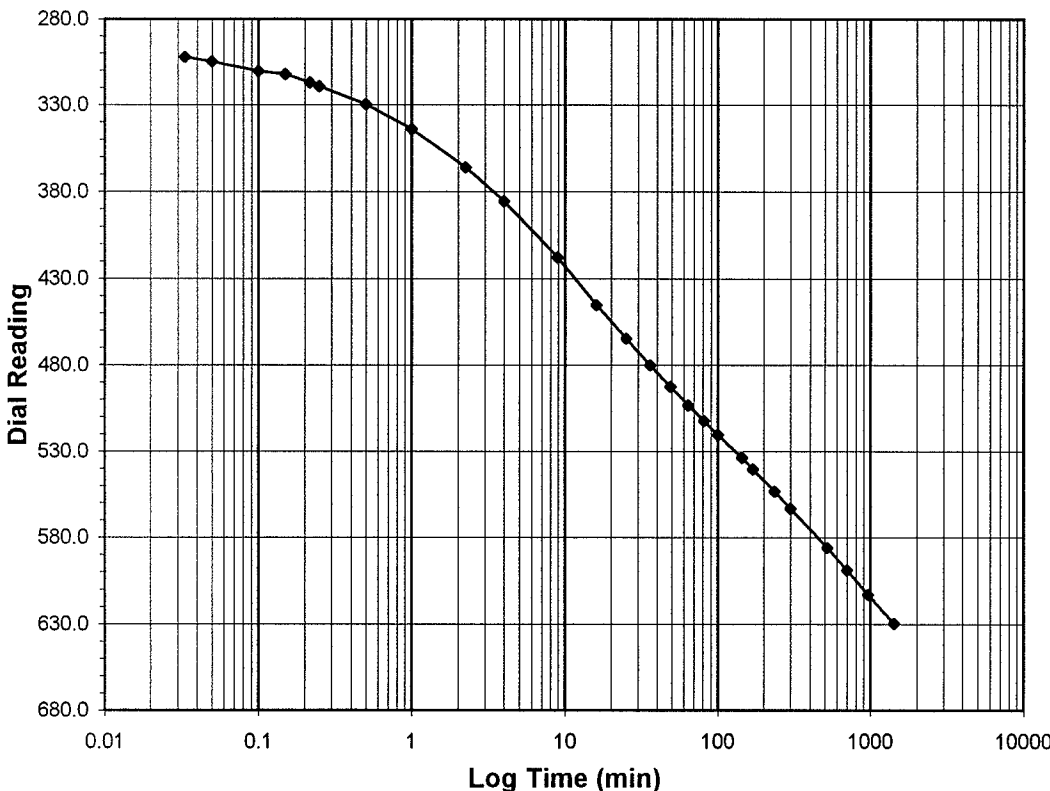
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 1.0-2.0
Final Reading (div) 629.7
 Consolidometer No. **3**
 1 Division (in) **0.0001**

Start Date 10/12/05
Start Time 7:35:23

Elapsed Time (min)	Dial Reading (div)
Initial	274.0
0.03	302.3
0.05	304.9
0.10	310.2
0.15	312.3
0.22	317.0
0.25	319.1
0.50	329.7
1.00	344.1
2.25	365.9
4.00	385.4
8.88	417.8
16.00	444.9
25.00	464.8
36.00	480.2
49.00	492.9
64.00	503.6
81.00	512.3
100.00	520.4
144.00	534.0
170.37	540.6
236.12	553.5
300.00	563.4
520.00	586.0
700.00	599.1
960.00	613.1
1425.00	629.7



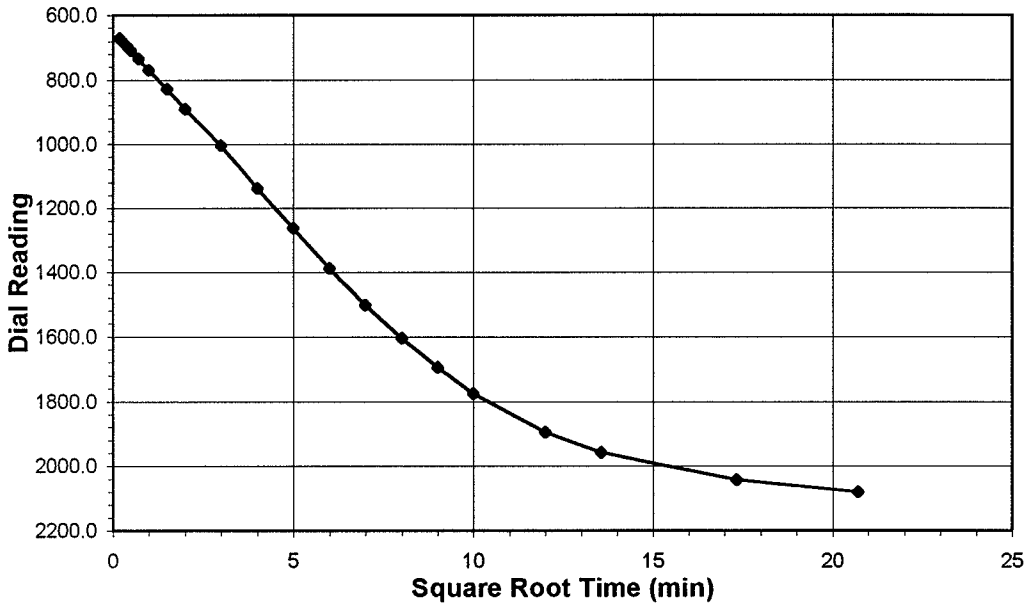
Tested By **TM** Date **10/12/05** Checked By **GU** Date **10/27/05**

ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-11**

Boring No. **GT-113**
 Depth (ft) **31.2-31.4**
 Sample No. **ST-1**
 Visual Description **GRAY CLAY**

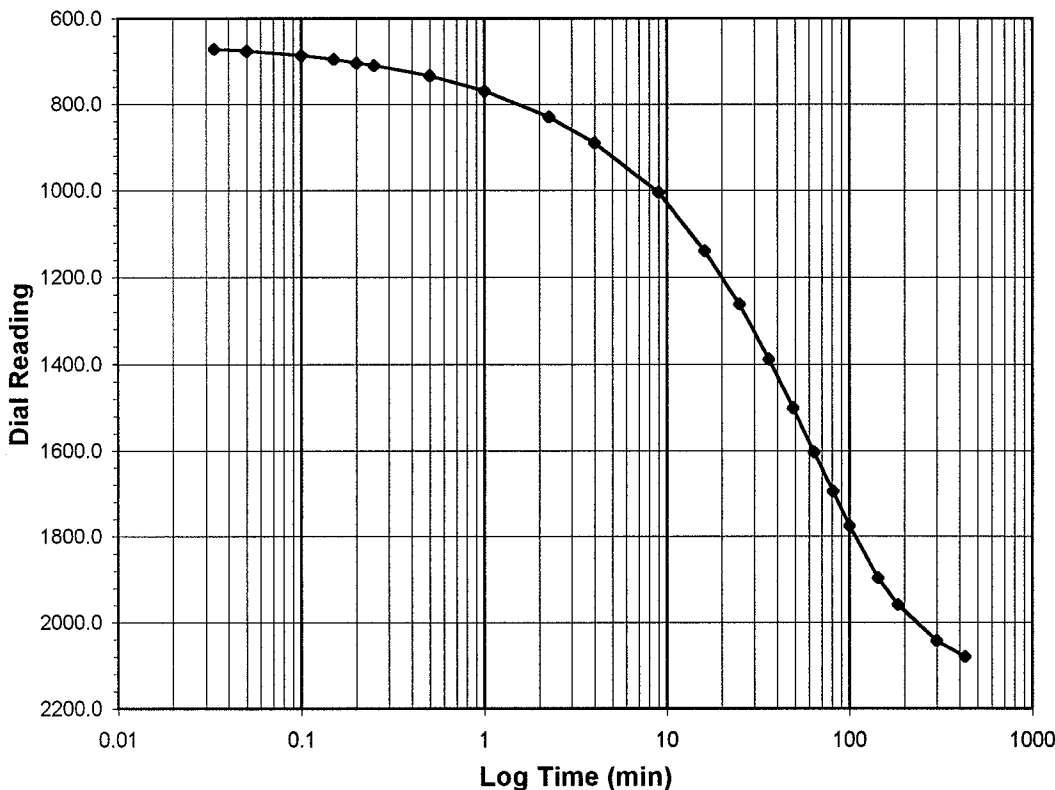
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) **2.0-4.0**
 Final Reading (div) **2080.0**
 Consolidometer No. **3**
 1 Division (in) **0.0001**

Start Date **10/13/05**
 Start Time **7:40:47**

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	629.7
0.03	670.9
0.05	676.1
0.10	685.9
0.15	695.2
0.20	703.2
0.25	709.0
0.50	733.5
1.00	768.9
2.25	829.0
4.00	890.5
9.02	1004.4
16.00	1138.8
25.00	1261.8
36.00	1388.6
49.00	1501.8
64.00	1603.8
81.00	1695.6
100.00	1775.2
144.00	1895.9
183.78	1958.8
300.02	2042.6
429.05	2080.0



Tested By **TM** Date **10/13/05** Checked By **GU** Date **10/27/05**

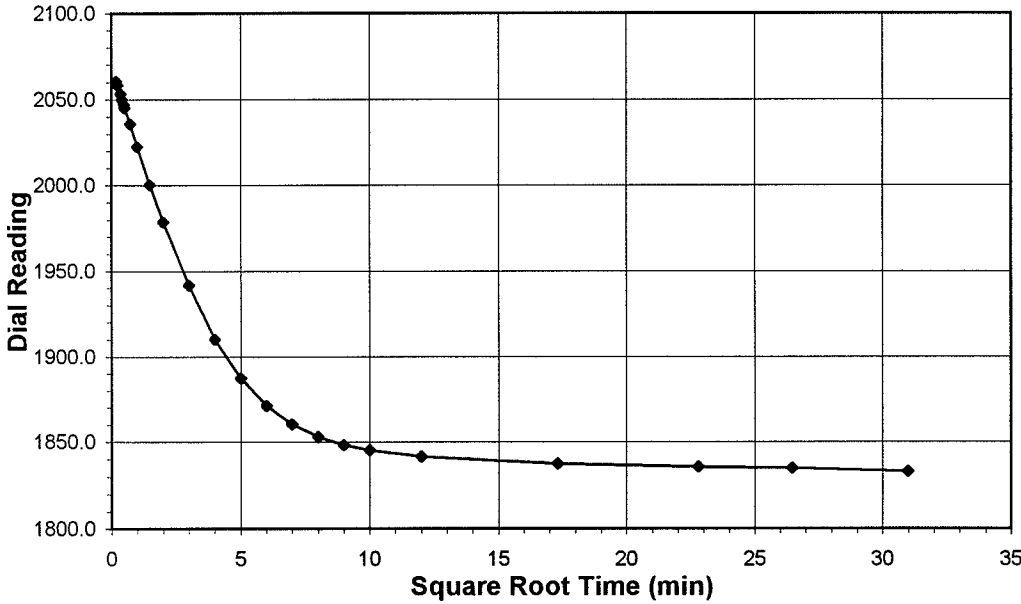
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-11**

Boring No. **GT-113**
 Depth (ft) **31.2-31.4**
 Sample No. **ST-1**
 Visual Description **GRAY CLAY**

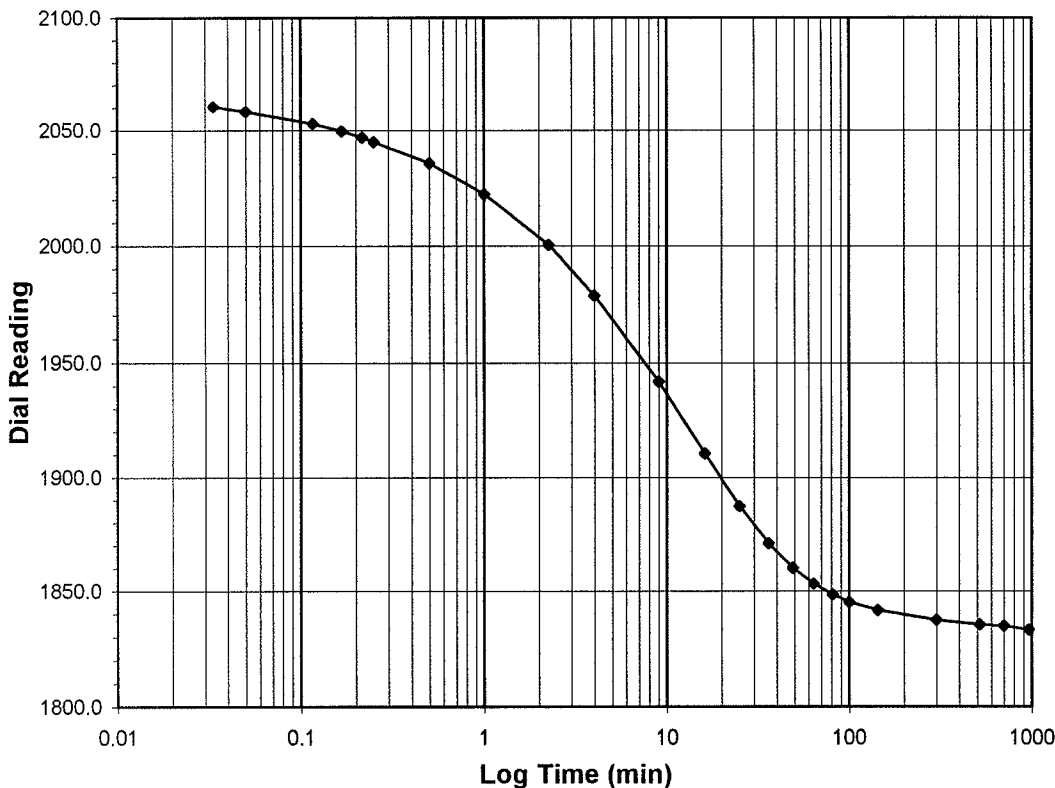
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 4.0-1.0
Final Reading (div) 1833.2
 Consolidometer No. **3**
 1 Division (in) **0.0001**

Start Date **10/13/05**
 Start Time **14:59:42**

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	2080.0
0.03	2060.6
0.05	2058.4
0.12	2053.2
0.17	2049.7
0.22	2046.9
0.25	2045.1
0.50	2036.0
1.00	2022.6
2.25	2000.6
4.00	1978.8
9.02	1941.9
16.00	1910.3
25.00	1887.4
36.00	1871.0
49.00	1860.3
64.00	1853.2
81.00	1848.4
100.00	1845.2
144.00	1841.5
300.00	1837.6
520.00	1835.6
700.00	1834.9
960.00	1833.2



Tested By **TM** Date **10/13/05** Checked By **GU** Date **10/27/05**

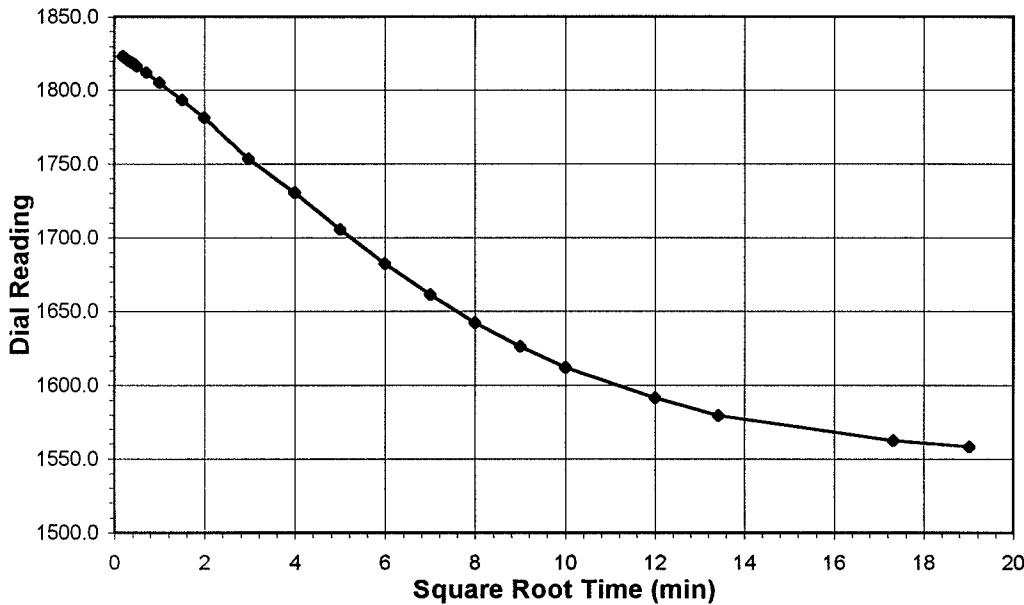
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-11**

Boring No. **GT-113**
 Depth (ft) **31.2-31.4**
 Sample No. **ST-1**
 Visual Description **GRAY CLAY**

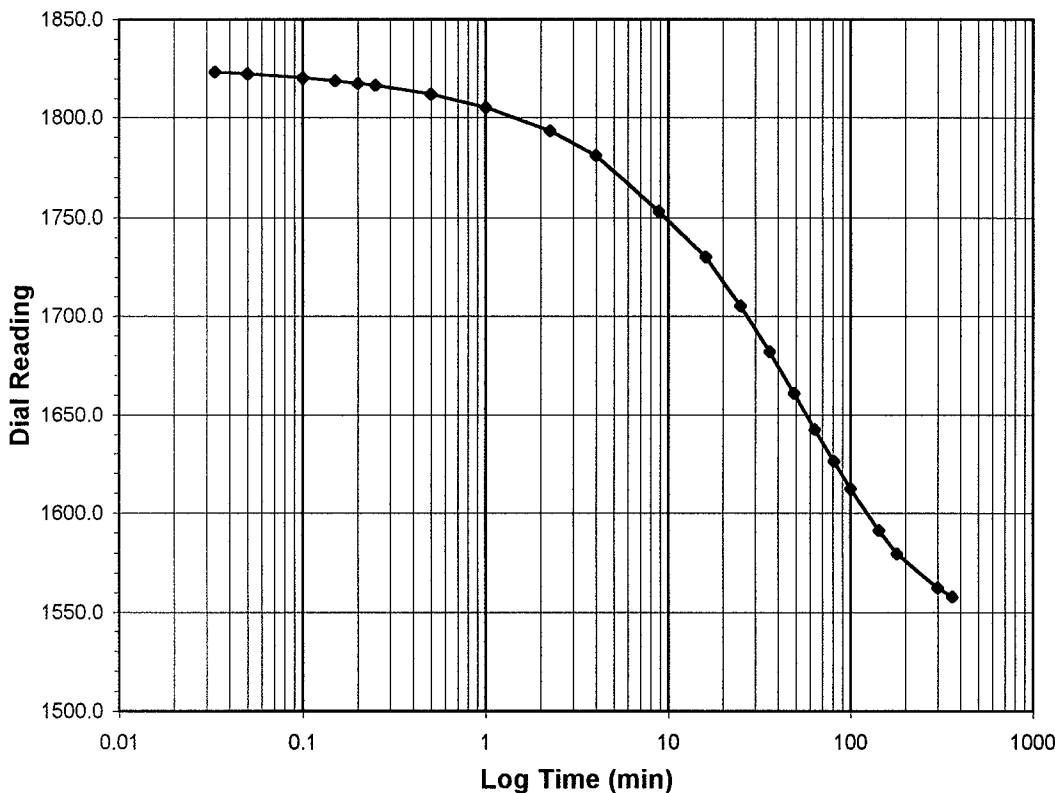
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 1.0-0.25
Final Reading (div) 1557.9
 Consolidometer No. **3**
 1 Division (in) **0.0001**

Start Date **10/14/05**
 Start Time **7:31:34**

Elapsed Time (min)	Dial Reading (div)
Initial	1833.2
0.03	1823.5
0.05	1822.6
0.10	1820.4
0.15	1819.0
0.20	1817.8
0.25	1816.6
0.50	1812.2
1.00	1805.2
2.25	1793.4
4.00	1781.0
8.88	1753.3
16.00	1730.3
25.00	1705.4
36.00	1682.1
49.00	1661.0
64.00	1642.3
81.00	1626.4
100.00	1612.3
144.00	1591.5
180.00	1579.6
300.00	1562.4
361.72	1557.9



Tested By **TM** Date **10/14/05** Checked By **GU** Date **10/27/05**



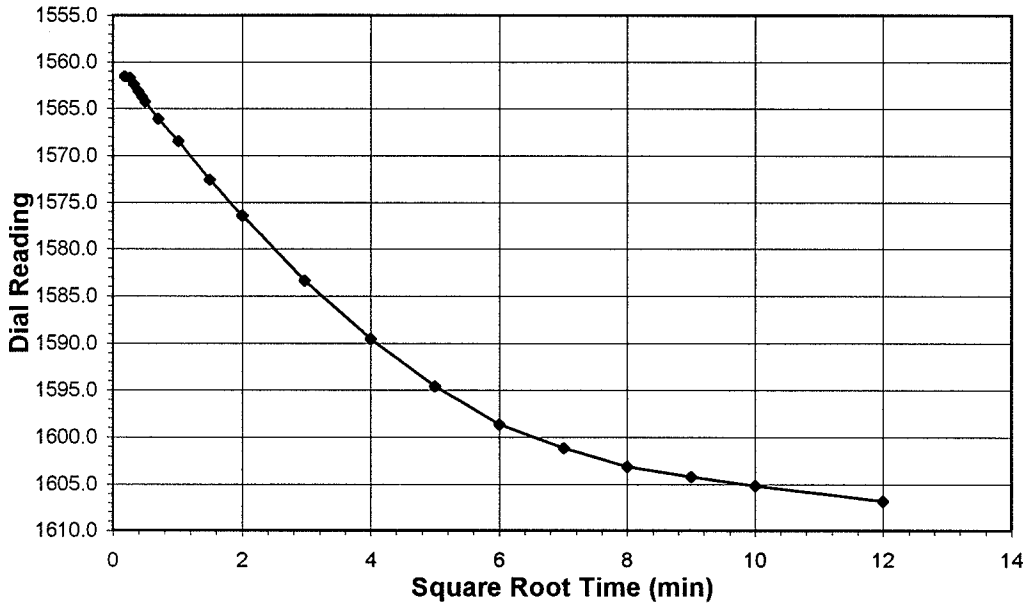
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE
 Client Project: GE PROCESSING FACILITY 20430.011
 Project No.: 2005-329-01
 Lab ID: 2005-329-01-11

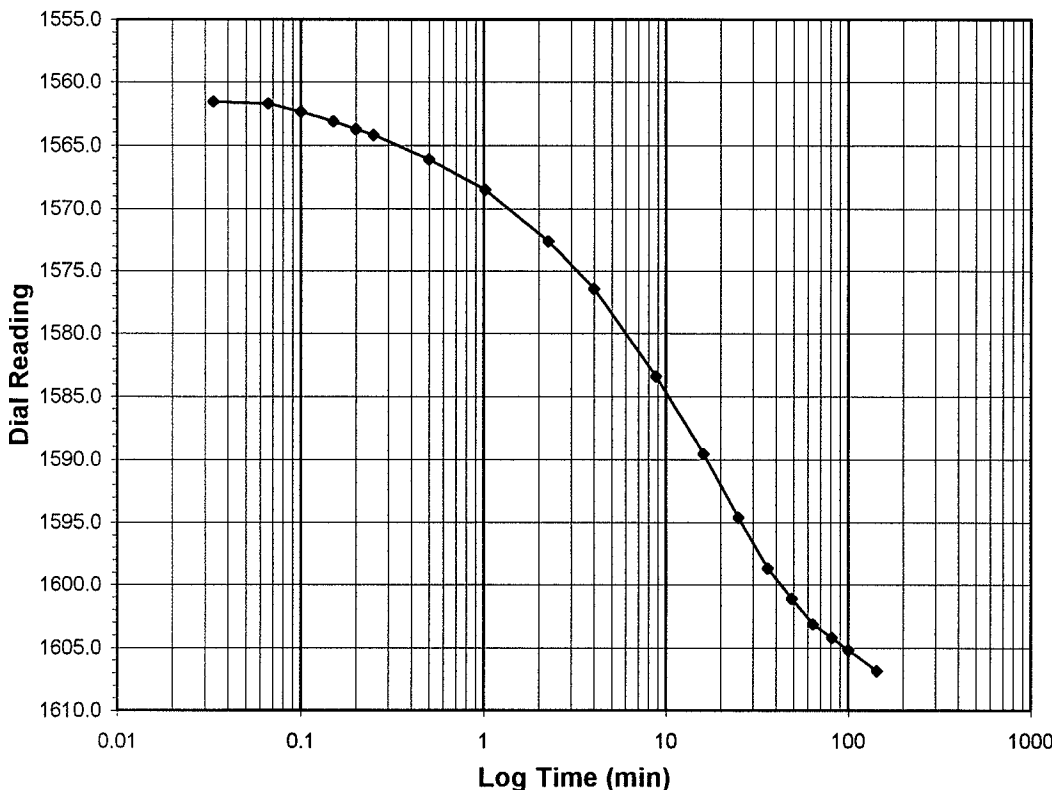
Boring No.: GT-113
 Depth (ft): 31.2-31.4
 Sample No.: ST-1
 Visual Description: GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0.25-0.5
 Final Reading (div): 1606.8
 Consolidometer No.: 3
 1 Division (in): 0.0001
 Start Date: 10/14/05
 Start Time: 13:43:32

Elapsed Time (min)	Dial Reading (div)
Initial	1557.9
0.03	1561.6
0.07	1561.7
0.10	1562.4
0.15	1563.1
0.20	1563.7
0.25	1564.2
0.50	1566.1
1.02	1568.5
2.25	1572.6
4.00	1576.4
8.80	1583.4
16.00	1589.5
25.00	1594.6
36.00	1598.7
49.00	1601.1
64.00	1603.1
81.00	1604.2
100.00	1605.2
144.00	1606.8



Tested By: TM Date: 10/14/05 Checked By: GU Date: 10/27/05

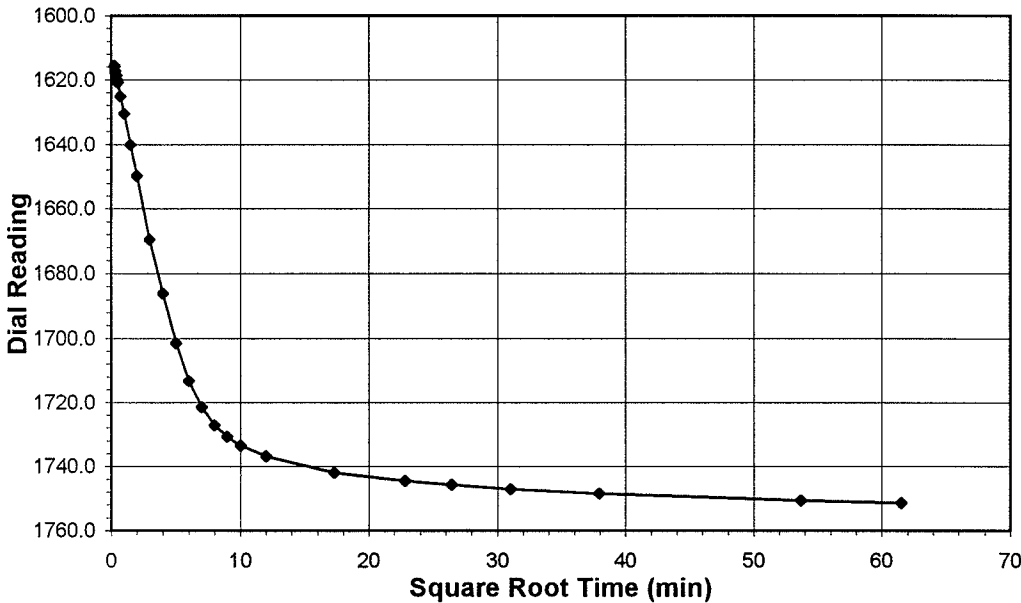


ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-113
Client Project	GE PROCESSING FACILITY 20430.011	Depth (ft)	31.2-31.4
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-11	Visual Description	GRAY CLAY

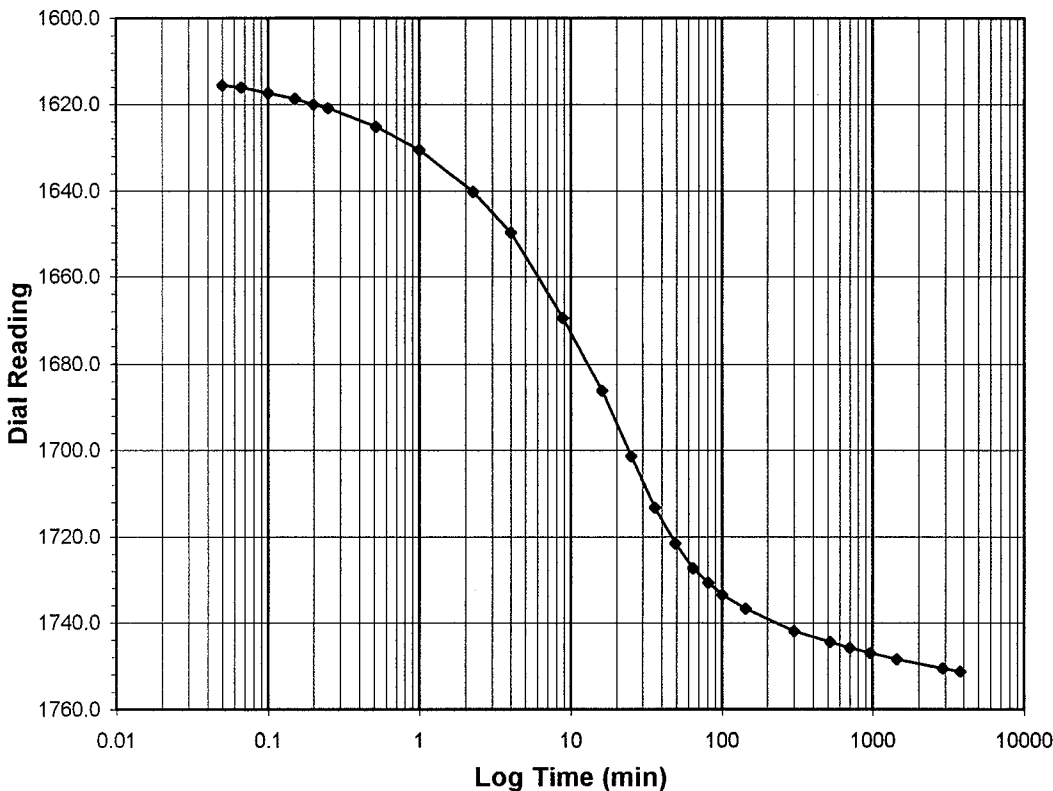
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	1751.3
Consolidometer No.	3
1 Division (in)	0.0001

Start Date	10/14/05
Start Time	16:19:36

Elapsed Time (min)	Dial Reading (div)
Initial	1606.8
0.05	1615.6
0.07	1616.0
0.10	1617.3
0.15	1618.7
0.20	1620.0
0.25	1620.9
0.52	1625.2
1.00	1630.5
2.25	1640.1
4.00	1649.7
8.83	1669.5
16.00	1686.1
25.00	1701.4
36.00	1713.2
49.00	1721.5
64.00	1727.2
81.00	1730.7
100.00	1733.5
144.00	1736.8
300.00	1741.9
520.00	1744.5
700.00	1745.7
960.00	1747.0
1440.00	1748.4
2880.00	1750.5
3785.00	1751.3



Tested By TM Date 10/14/05 Checked By GU Date 10/27/05

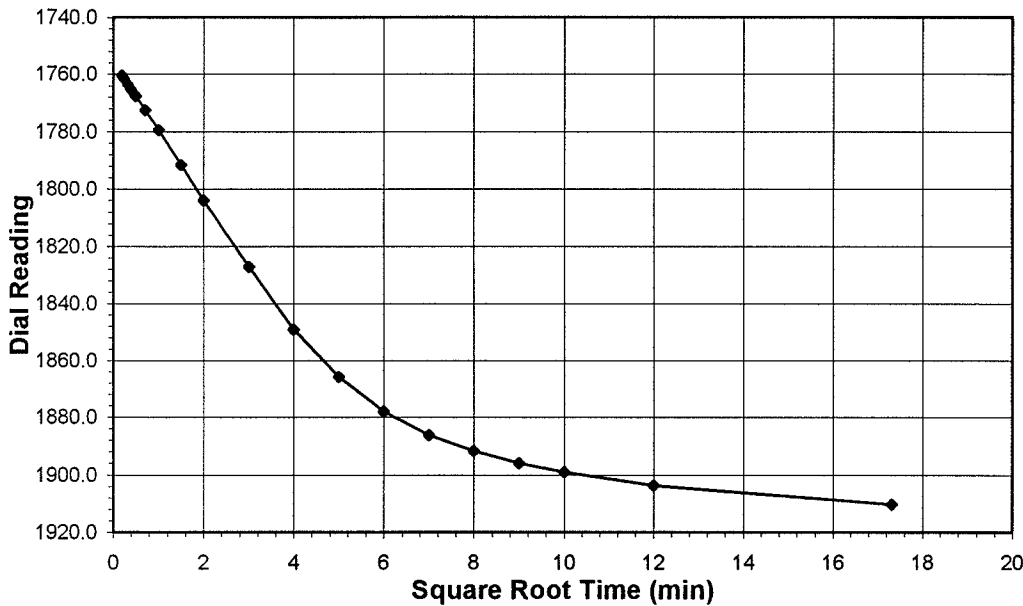
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-11**

Boring No. **GT-113**
 Depth (ft) **31.2-31.4**
 Sample No. **ST-1**
 Visual Description **GRAY CLAY**

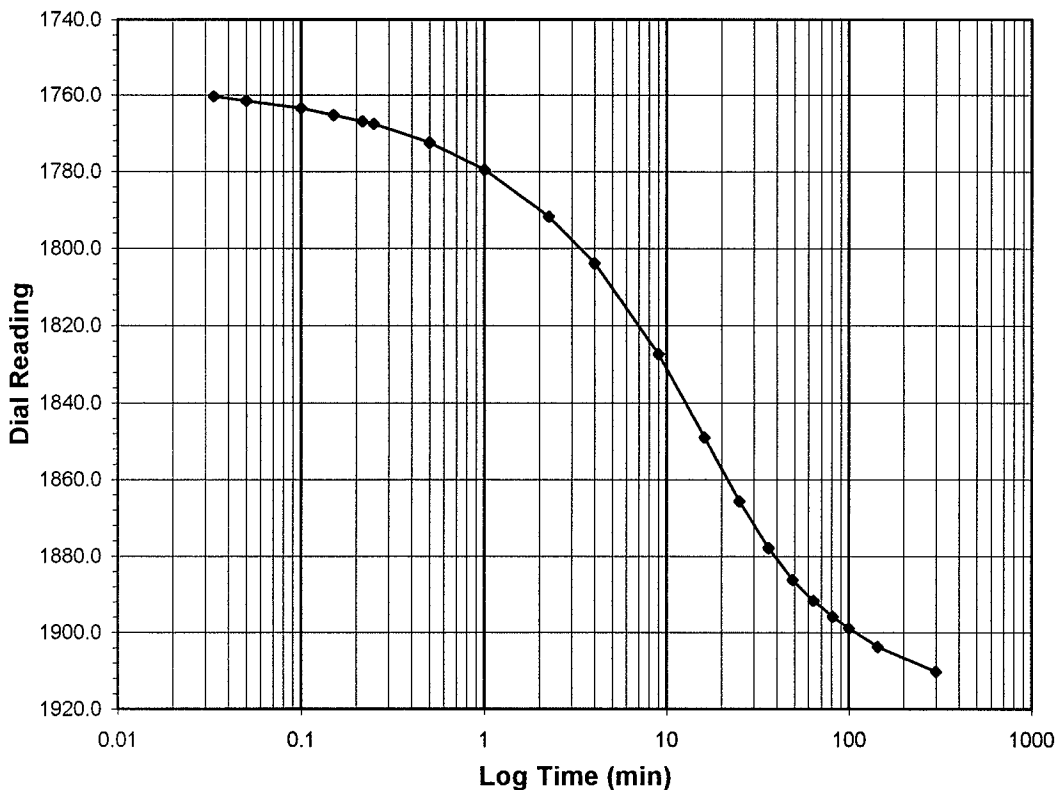
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 1.0-2.0
Final Reading (div) 1910.3
 Consolidometer No. **3**
 1 Division (in) **0.0001**

Start Date 10/17/05
Start Time 7:34:50

Elapsed Time (min)	Dial Reading (div)
Initial	1751.3
0.03	1760.3
0.05	1761.4
0.10	1763.5
0.15	1765.3
0.22	1766.9
0.25	1767.6
0.50	1772.4
1.00	1779.5
2.25	1791.6
4.00	1803.8
9.02	1827.2
16.00	1849.1
25.00	1865.8
36.00	1877.9
49.00	1886.2
64.00	1891.7
81.00	1895.8
100.02	1898.9
144.00	1903.6
300.00	1910.3



Tested By **TM** Date **10/17/05** Checked By **GU** Date **10/27/05**

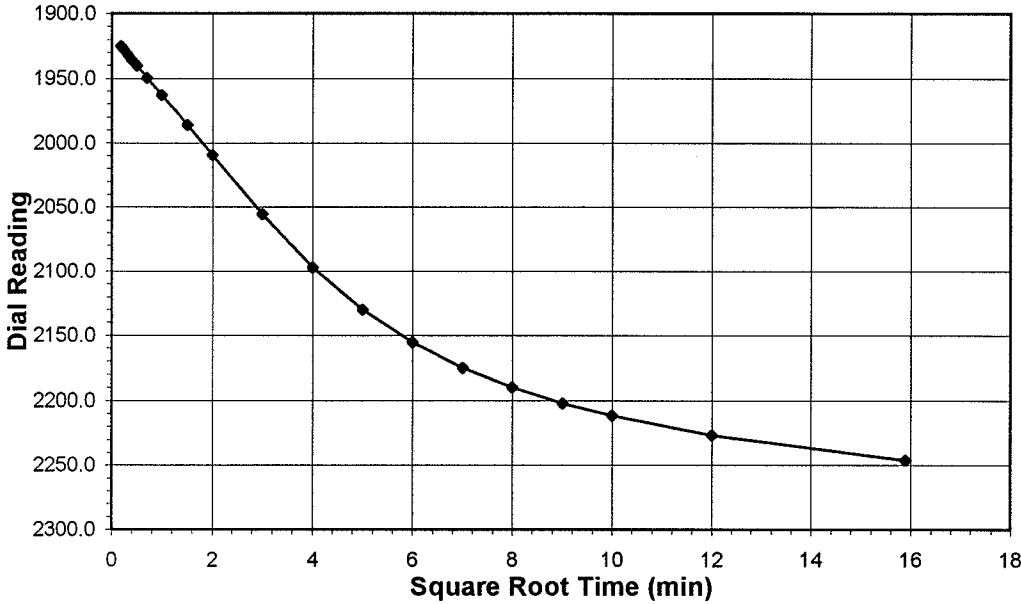
ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-96 (SOP-S24A)



Client: BLASLAND, BOUCK, & LEE
 Client Project: GE PROCESSING FACILITY 20430.011
 Project No.: 2005-329-01
 Lab ID: 2005-329-01-11

Boring No.: GT-113
 Depth (ft): 31.2-31.4
 Sample No.: ST-1
 Visual Description: GRAY CLAY

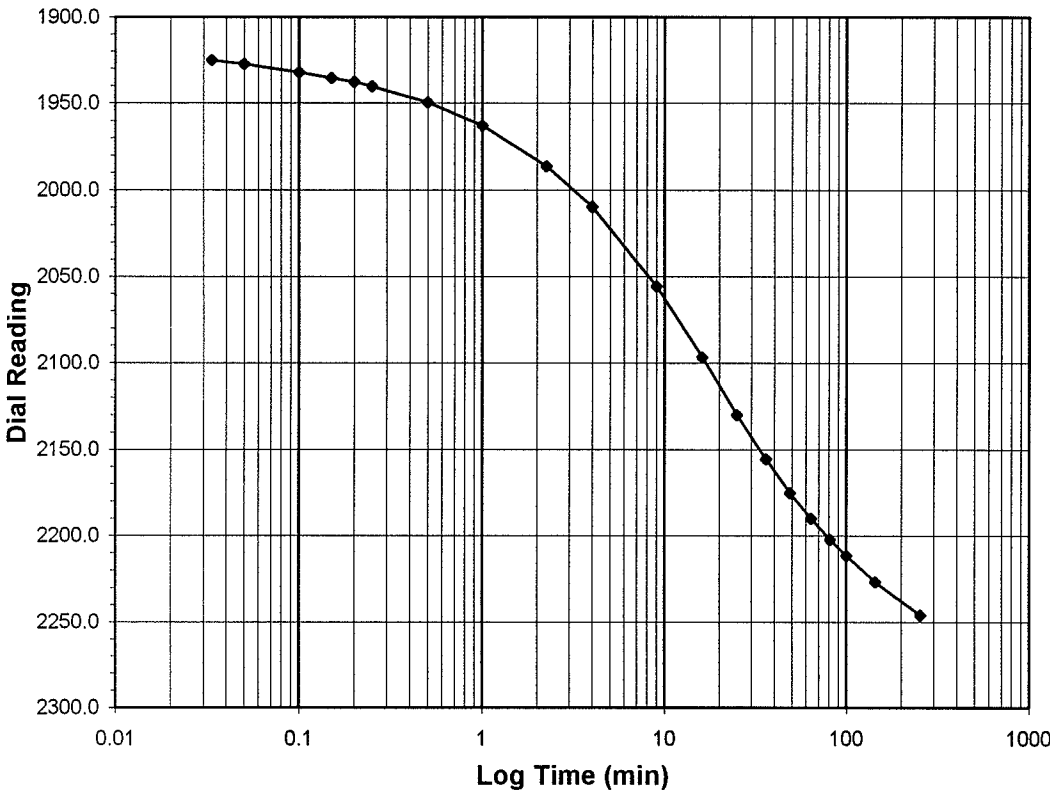
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 2.0-4.0
 Final Reading (div) 2246.1
 Consolidometer No. 3
 1 Division (in) 0.0001

Start Date 10/17/05
 Start Time 12:46:41

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	1910.3
0.03	1925.2
0.05	1927.4
0.10	1932.1
0.15	1935.5
0.20	1937.9
0.25	1940.5
0.50	1949.5
1.00	1963.0
2.25	1986.2
4.00	2009.5
9.00	2055.4
16.00	2096.9
25.00	2130.1
36.00	2155.7
49.00	2175.2
64.00	2190.1
81.00	2202.2
100.00	2211.6
144.00	2226.7
252.70	2246.1



Tested By **TM** Date **10/17/05** Checked By **GO** Date **10/27/05**

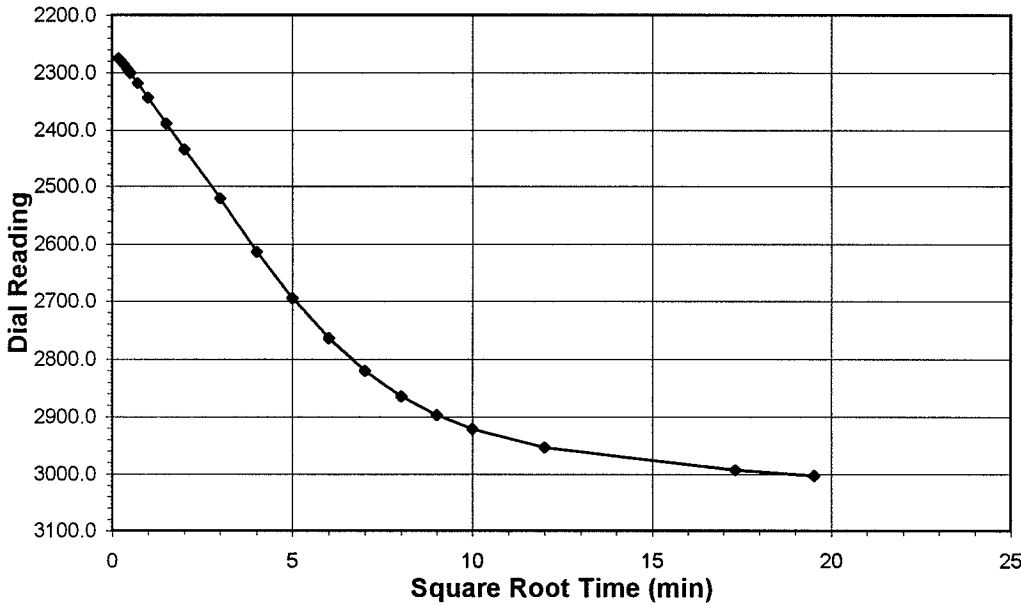
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-11**

Boring No. **GT-113**
 Depth (ft) **31.2-31.4**
 Sample No. **ST-1**
 Visual Description **GRAY CLAY**

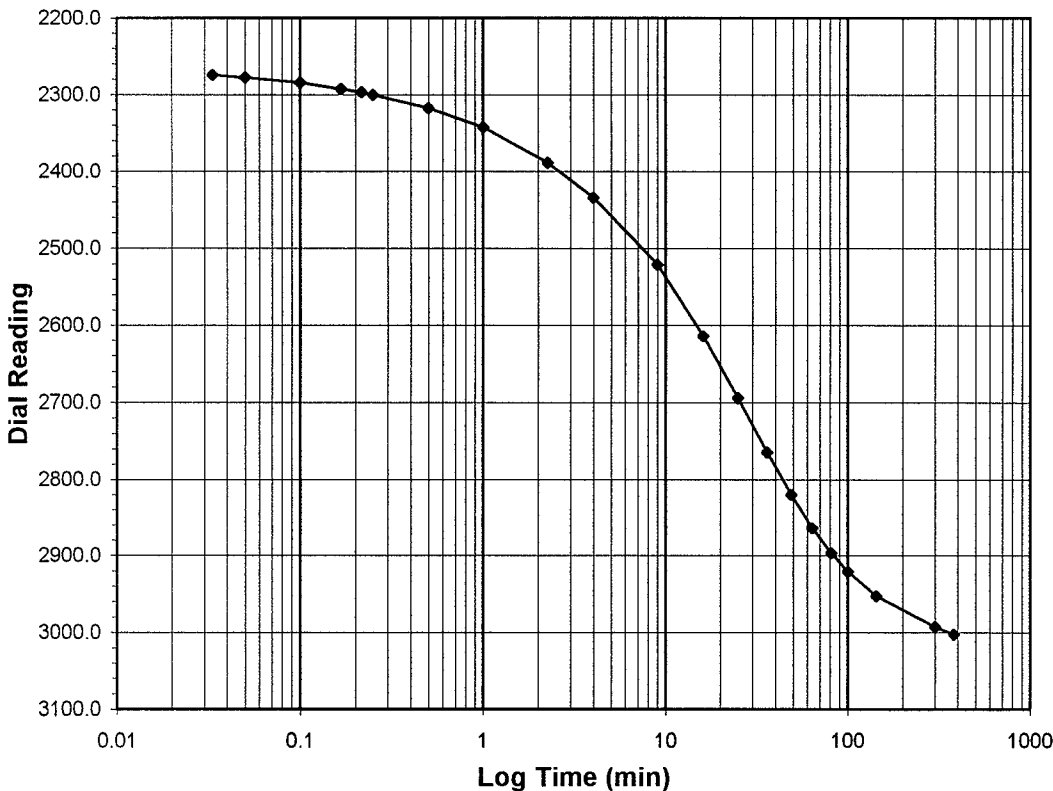
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 4.0-8.0
Final Reading (div) 3002.3
 Consolidometer No. **3**
 1 Division (in) **0.0001**

Start Date **10/18/05**
 Start Time **7:35:07**

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	2246.1
0.03	2274.0
0.05	2277.2
0.10	2283.9
0.17	2292.2
0.22	2296.6
0.25	2299.7
0.50	2317.3
1.00	2342.7
2.25	2387.8
4.00	2434.1
9.02	2520.2
16.00	2613.7
25.00	2694.3
36.00	2764.1
49.00	2820.5
64.00	2864.5
81.00	2897.1
100.00	2921.0
144.00	2952.9
300.00	2992.7
381.02	3002.3



Tested By **TM** Date **10/18/05** Checked By **GU** Date **10/27/05**



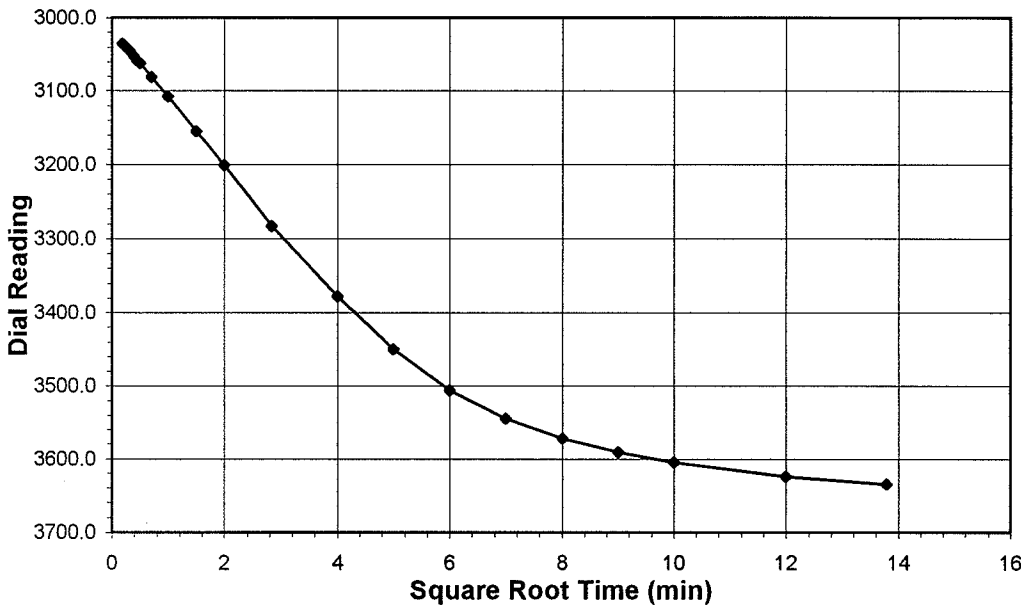
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE
 Client Project: GE PROCESSING FACILITY 20430.011
 Project No.: 2005-329-01
 Lab ID: 2005-329-01-11

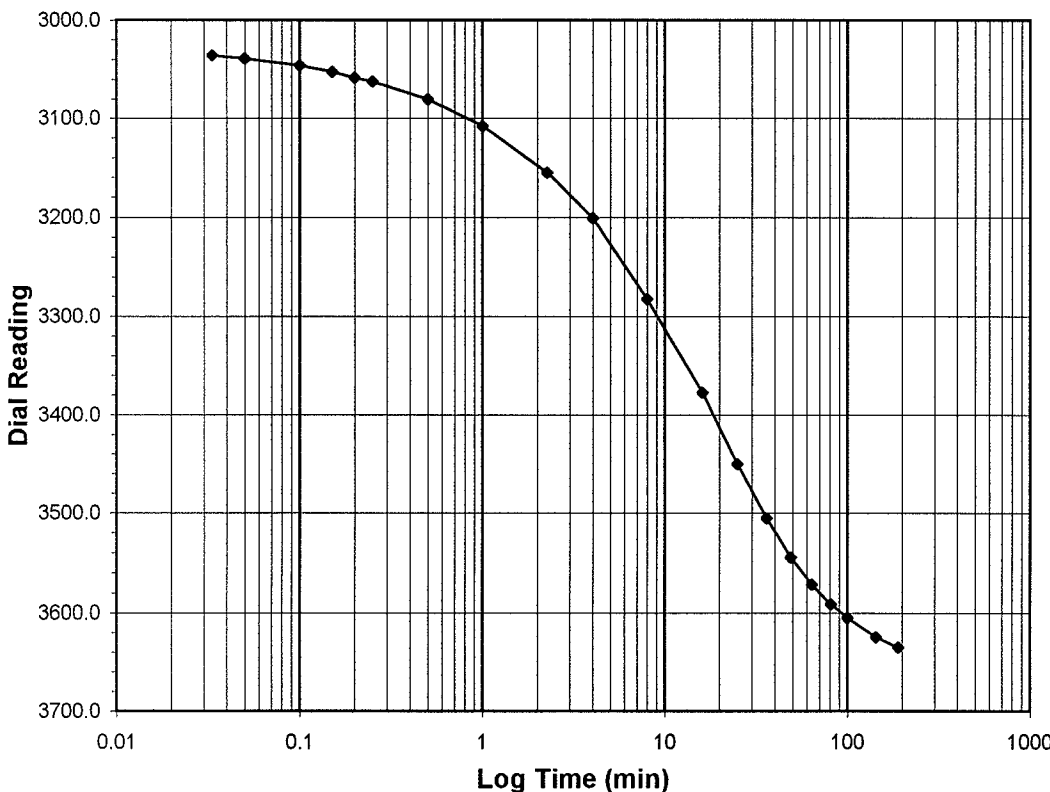
Boring No.: GT-113
 Depth (ft): 31.2-31.4
 Sample No.: ST-1
 Visual Description: GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 8.0-16.0
 Final Reading (div): 3634.8
 Consolidometer No.: 3
 1 Division (in): 0.0001
 Start Date: 10/18/05
 Start Time: 13:57:52

Elapsed Time (min)	Dial Reading (div)
Initial	3002.3
0.03	3035.3
0.05	3038.7
0.10	3045.7
0.15	3052.4
0.20	3058.1
0.25	3062.3
0.50	3080.5
1.00	3107.5
2.25	3154.7
4.00	3201.1
8.02	3282.6
16.00	3377.3
25.00	3449.8
36.00	3505.3
49.00	3544.7
64.00	3571.9
81.00	3591.0
100.00	3604.8
144.00	3624.0
190.15	3634.8



Tested By: TM Date: 10/18/05 Checked By: GU Date: 10/27/05



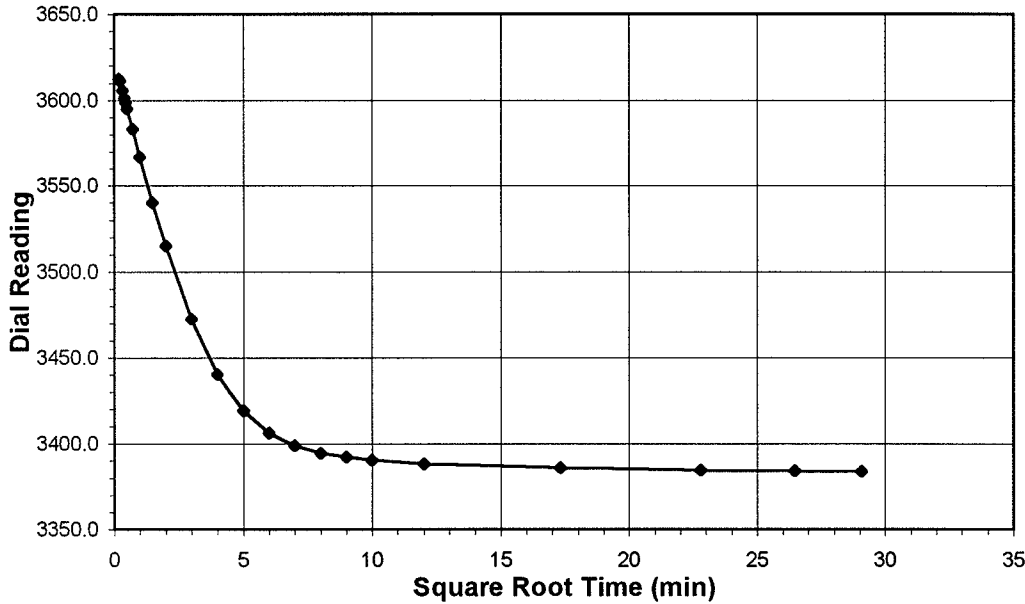
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE
 Client Project: GE PROCESSING FACILITY 20430.011
 Project No.: 2005-329-01
 Lab ID: 2005-329-01-11

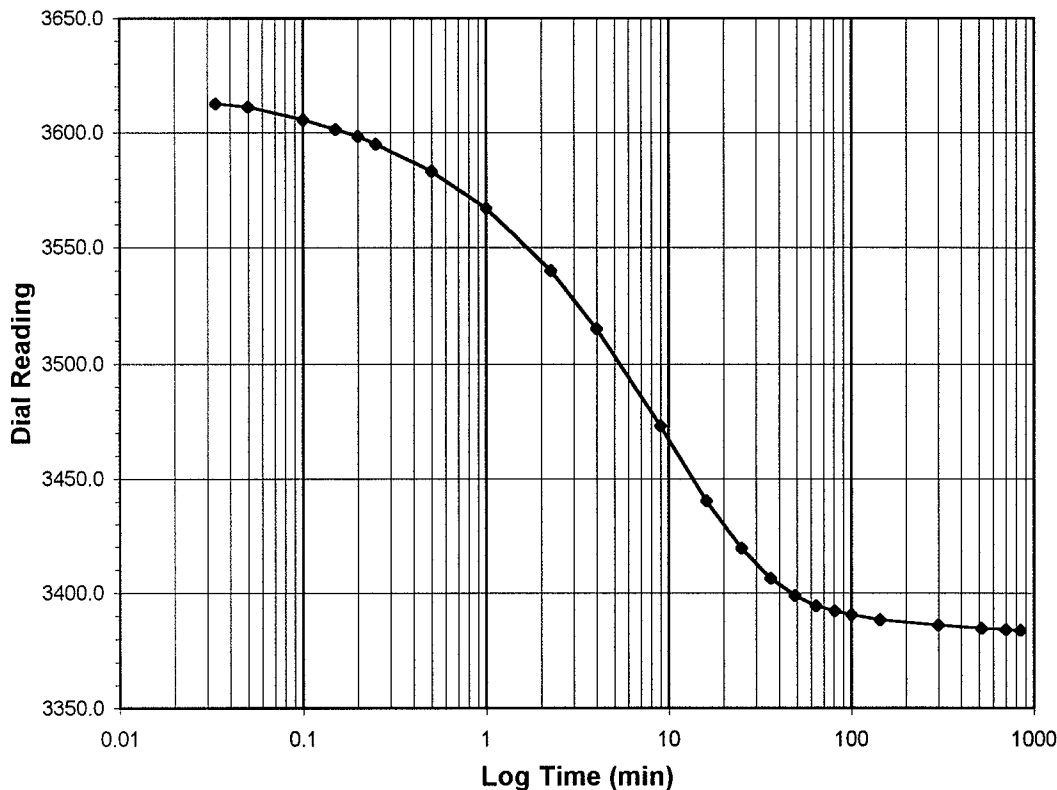
Boring No.: GT-113
 Depth (ft): 31.2-31.4
 Sample No.: ST-1
 Visual Description: GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 16.0-4.0
 Final Reading (div) 3383.9
 Consolidometer No. 3
 1 Division (in) 0.0001
 Start Date 10/18/05
 Start Time 17:11:06

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	3634.8
0.03	3612.5
0.05	3611.3
0.10	3605.6
0.15	3601.5
0.20	3598.3
0.25	3595.1
0.50	3583.4
1.00	3567.1
2.25	3540.2
4.00	3515.1
9.02	3472.8
16.00	3440.2
25.00	3419.4
36.00	3406.2
49.00	3398.9
64.00	3394.5
81.00	3392.3
100.00	3390.7
144.00	3388.4
300.00	3386.1
520.00	3384.7
700.00	3384.2
845.00	3383.9



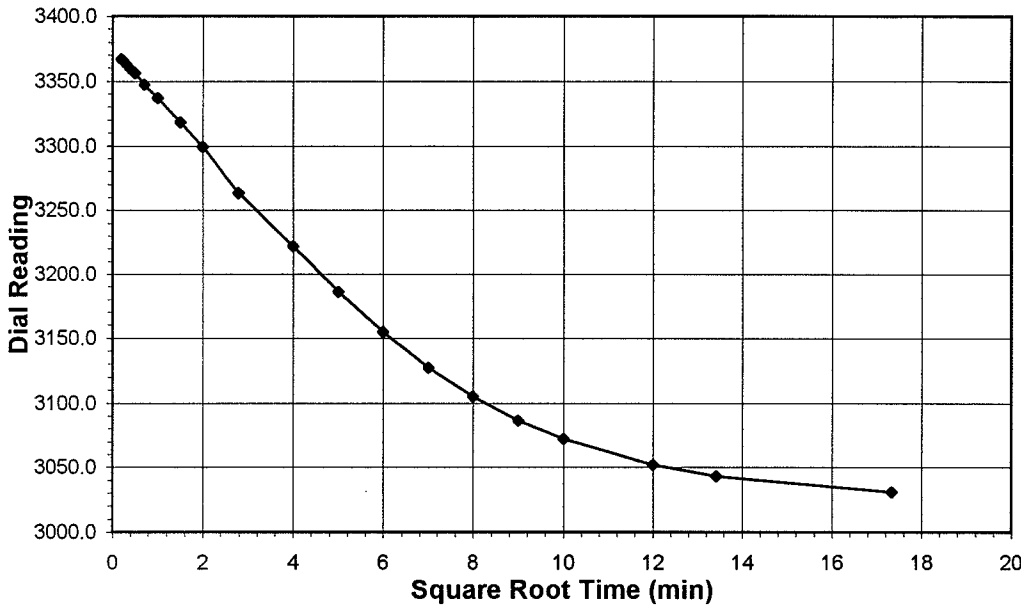
Tested By TM Date 10/18/05 Checked By GU Date 10/27/05

ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

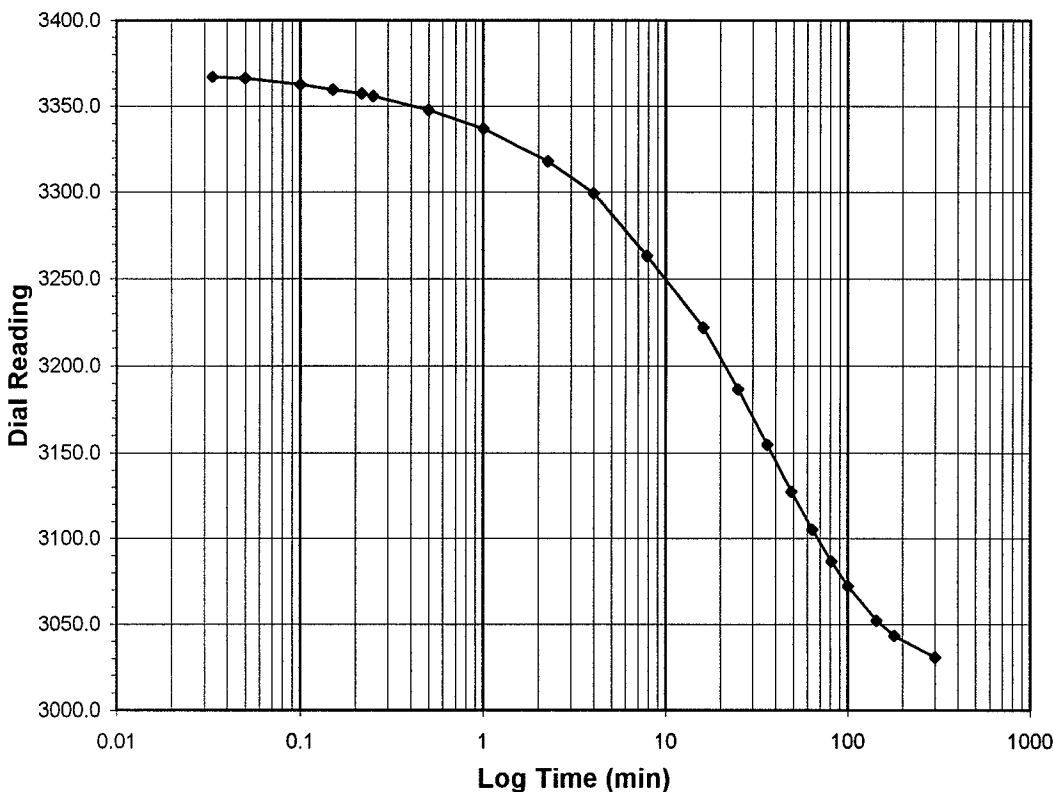
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-113
Client Project	GE PROCESSING FACILITY 20430.011	Depth (ft)	31.2-31.4
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-11	Visual Description	GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	3030.8
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	10/19/05
Start Time	7:29:05

Elapsed Time (min)	Dial Reading (div)
Initial	3383.9
0.03	3367.0
0.05	3366.2
0.10	3362.5
0.15	3359.6
0.22	3357.4
0.25	3356.1
0.50	3347.7
1.00	3336.9
2.25	3318.2
4.00	3299.2
7.83	3263.5
16.00	3221.9
25.00	3186.5
36.00	3154.7
49.00	3127.5
64.00	3105.0
81.00	3086.7
100.00	3072.2
144.00	3052.1
180.00	3043.1
300.70	3030.8



Tested By TM Date 10/19/05 Checked By GU Date 10/27/05



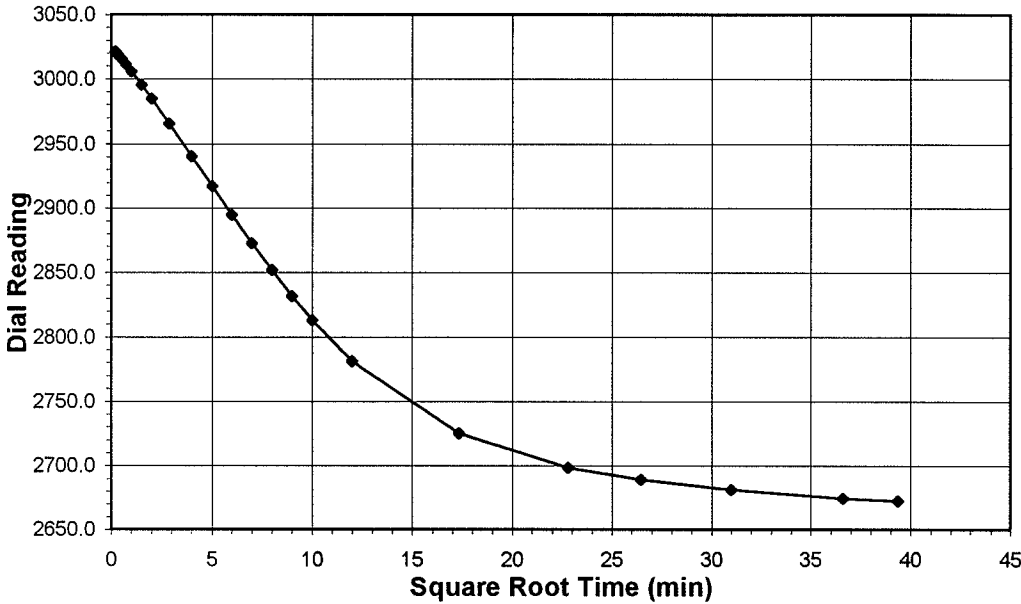
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE
 Client Project: GE PROCESSING FACILITY 20430.011
 Project No.: 2005-329-01
 Lab ID: 2005-329-01-11

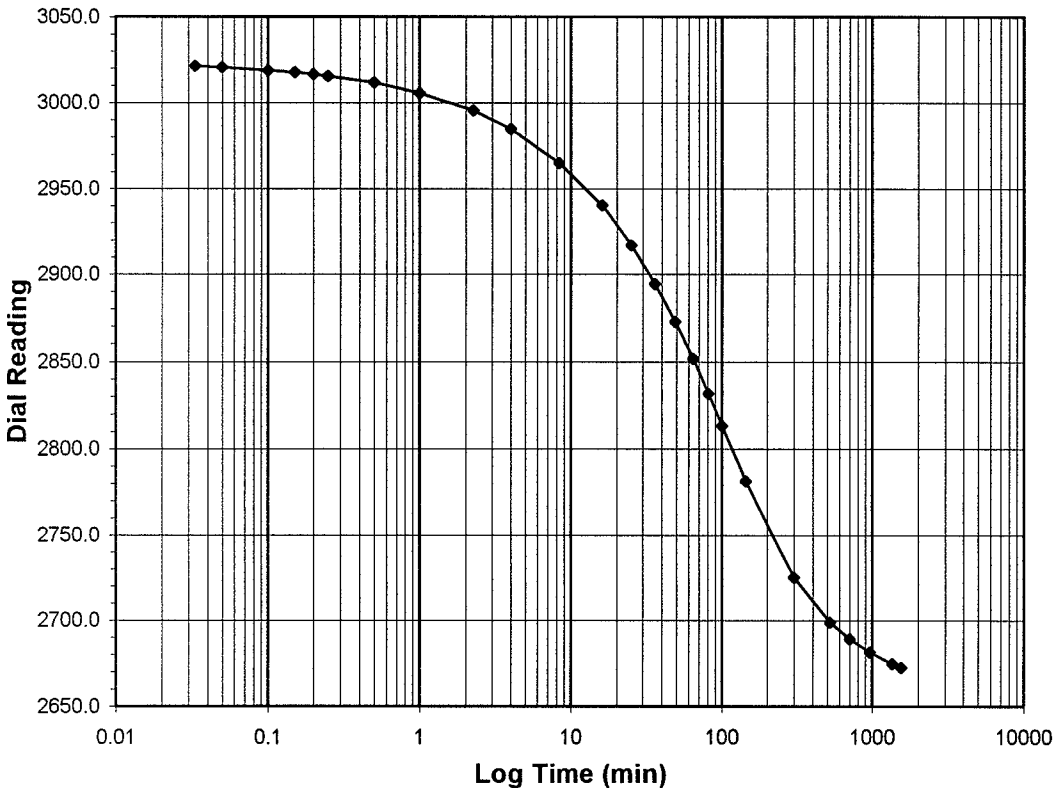
Boring No.: GT-113
 Depth (ft): 31.2-31.4
 Sample No.: ST-1
 Visual Description: GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	2672.4
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	10/19/05
Start Time	12:36:26

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	3030.8
0.03	3021.6
0.05	3020.9
0.10	3019.0
0.15	3017.8
0.20	3016.7
0.25	3015.6
0.50	3011.7
1.00	3005.7
2.25	2995.5
4.00	2984.8
8.33	2965.4
16.00	2940.5
25.00	2917.3
36.00	2894.6
49.00	2872.8
64.00	2851.8
81.00	2831.8
100.00	2813.4
144.00	2781.3
300.00	2725.2
520.00	2698.8
700.00	2689.1
960.00	2681.6
1340.50	2674.6
1548.57	2672.4



Tested By: TM Date: 10/19/05 Checked By: Date: 10/27/05

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth (ft)	70.8-71.0
Project No.	2005-329-01	Sample No.	ST-2
Lab ID	2005-329-01-12	Visual Description	GRAY CLAY (Minus No.4 sieve material, airdried)

Replicate Number	1	2
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	743.5	733.08
Temperature, T (°Celsius)	25.7	25.3
Weight of Pycnometer + Water (gm)	680.53	670.05
Tare Number	660	960
Weight of Tare + Dry Soil (gm)	198.19	202.37
Weight of Tare (gm)	98.75	103.15
Weight of Dry Soil (gm)	99.44	99.22
Specific Gravity of Soil @ T	2.727	2.741
Specific Gravity of Water @ T	0.9969	0.9970
Conversion Factor for Temperature T	0.9987	0.9988
Specific Gravity @ 20° Celsius	2.730	2.745

Average Specific Gravity @ 20° Celsius 2.74

Tested By TO Date 10/26/05 Checked By KB Date 10-27-05

DCN: CT-S5 Date 4/29/05 Revision: 10 C:\MSOFFICE\Excel\PrintQ\O216.xls\Sheet1

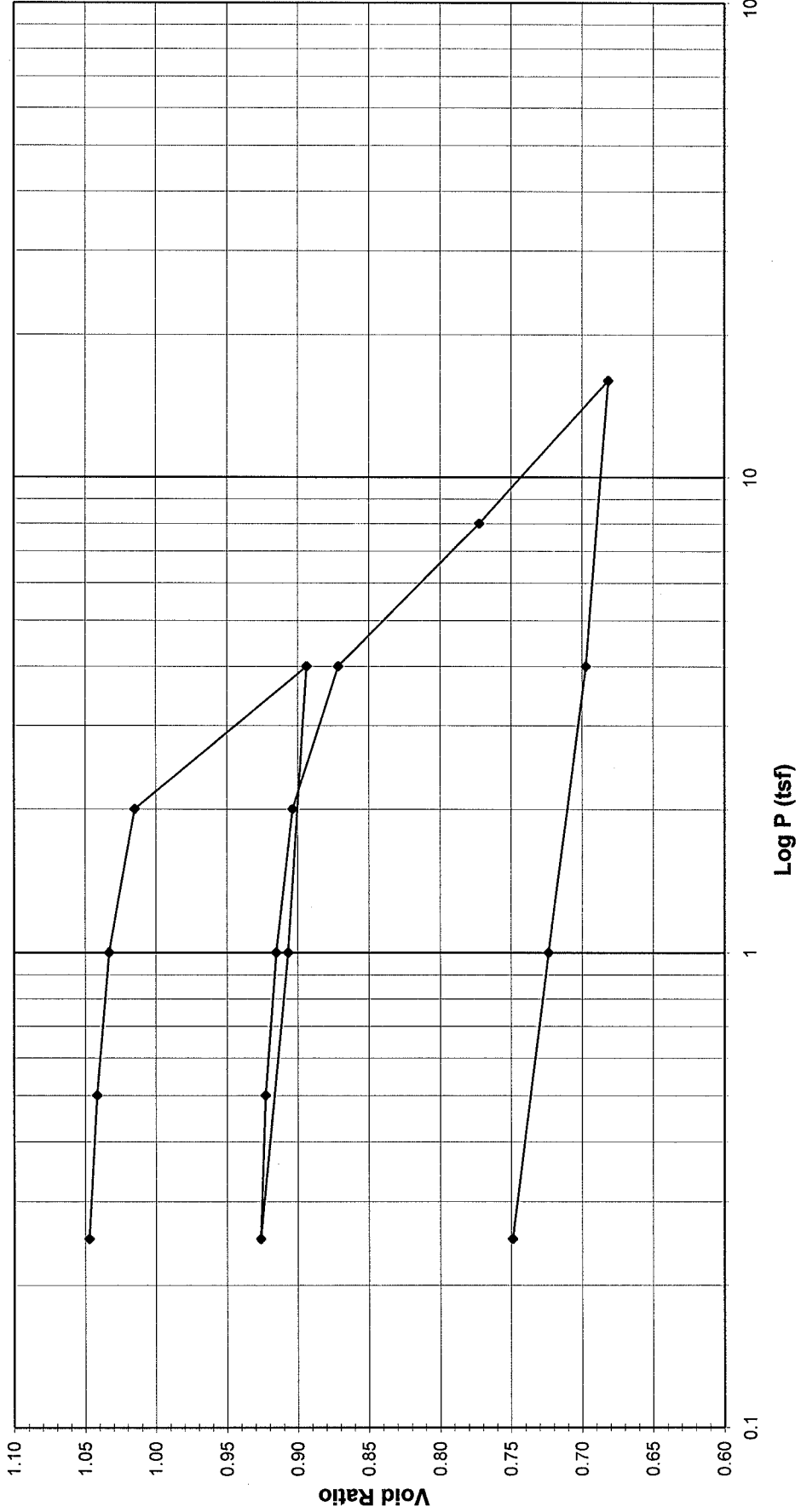


ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-113
Client Reference	GE PROCESSING FACILITY 20430.011	Depth (ft)	70.6-70.8
Project No.	2005-329-01	Sample No.	ST-2
Lab ID	2005-329-01-12	Visual Description	SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED





ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-113
Client Reference	GE PROCESSING FACILITY 20430.011	Depth (ft)	70.6-70.8
Project No.	2005-329-01	Sample No.	ST-2
Lab ID	2005-329-01-12	Visual Description	SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED

Consolidometer No. 1

1 Division = 0.0001 (in)

Sample Properties

	Initial	Final
<i>Water Content</i>		
Tare Number	40	D-4
Wt. Tare & VVS (gm)	183.13	138.29
Wt. Tare & DS (gm)	161.09	115.86
Wt. Water (gm)	22.04	22.43
Wt. Tare (gm)	101.49	36.66
Wt. DS (gm)	59.60	79.20
Water Content (%)	36.98	28.32

Sample Parameters

Sample Diameter (in)	2.5	2.5
Sample Height (in)	0.75	0.639
Sample Volume (cc)	60.33	51.38
Wt. Wet Sample + Ring (gm)	186.59	179.62
Wt. of Ring (gm)	76.33	76.33
Wt. of Wet Sample (gm)	110.26	103.29
Wet Density (pcf)	114.04	125.45
Wet Density (g/cc)	1.83	2.01
Water Content (%)	36.98	28.32
Wt. of Dry Sample (gm)	80.49	80.49
Dry Density (pcf)	83.26	97.76
Dry Density (g/cc)	1.33	1.57
Void Ratio	1.0536	0.7489
Saturation (%)	96.17	103.61
Specific Gravity	2.74	Measured

Test Data Summary

Applied Pressure (tsf)	Final Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	19.050	60.330	1.33422	1.05363
0.25	32.6	8.9	23.7	18.990	60.139	1.33846	1.04713
0.5	59.8	15.8	44.0	18.938	59.976	1.34209	1.04159
1	102.6	26.9	75.7	18.858	59.721	1.34783	1.03289
2	180.6	39.4	141.2	18.691	59.194	1.35982	1.01497
4	638.8	54.3	584.5	17.565	55.628	1.44699	0.89359
1	570.7	34.8	535.9	17.689	56.019	1.43689	0.90690
0.25	483.5	17.9	465.6	17.867	56.584	1.42254	0.92613
0.5	499.9	21.8	478.1	17.836	56.484	1.42506	0.92273
1	534.9	29.5	505.4	17.766	56.264	1.43063	0.91524
2	589.6	41.8	547.8	17.659	55.924	1.43935	0.90364
4	720.2	54.4	665.9	17.359	54.974	1.46422	0.87131
8	1097.4	69.8	1027.6	16.440	52.064	1.54605	0.77225
16	1447.8	88.7	1359.1	15.598	49.398	1.62950	0.68149
4	1367.4	65.1	1302.4	15.742	49.854	1.61459	0.69702
1	1245.4	40.1	1205.3	15.989	50.634	1.58970	0.72359
0.25	1136.3	23.5	1112.8	16.224	51.379	1.56667	0.74893

Tested By TM Date 10/17/05 Input Checked By GL Date 10/27/05



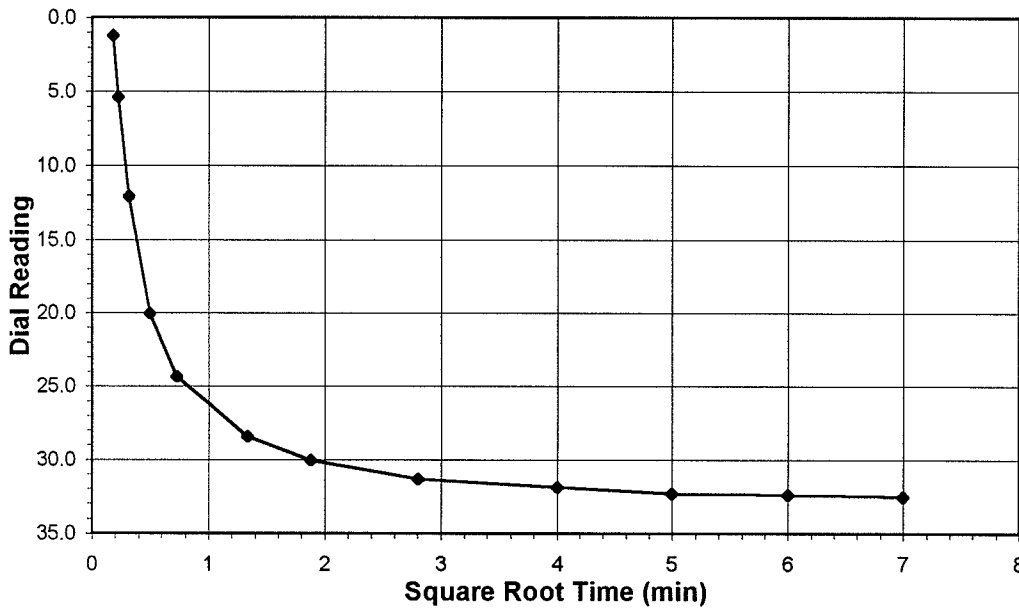
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-12**

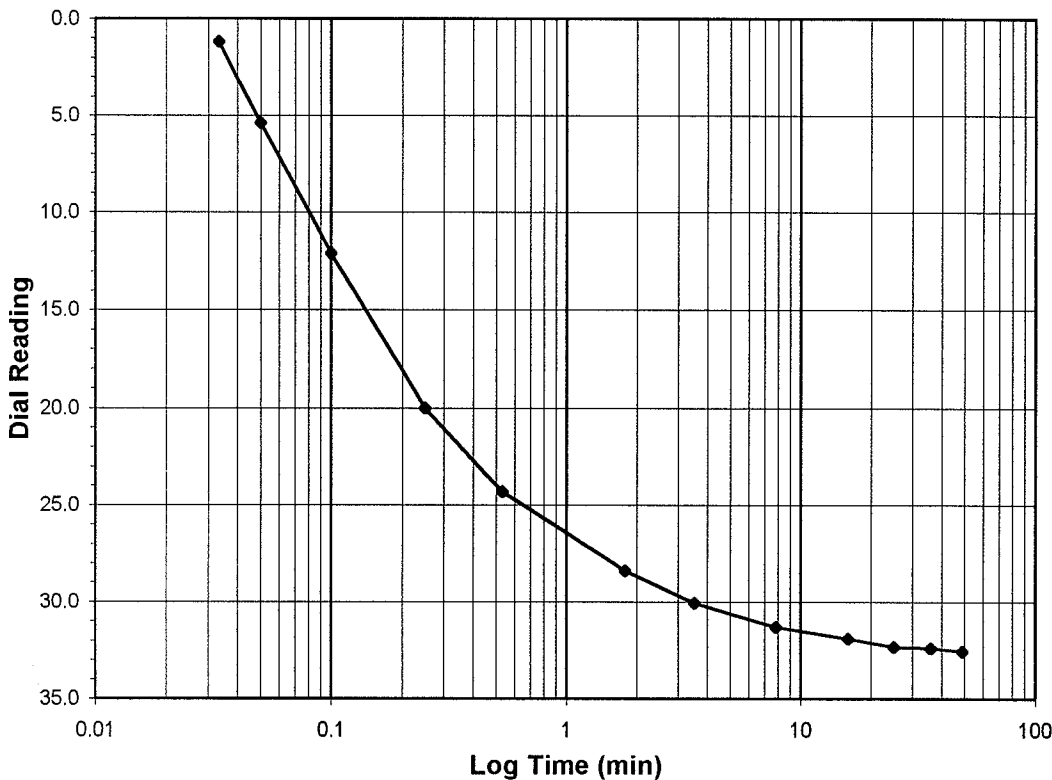
Boring No. **GT-113**
 Depth (ft) **70.6-70.8**
 Sample No. **ST-2**
 Visual Description **SOFT GRAY CLAY**

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) **0-0.25**
 Final Reading (div) **32.6**
 Consolidometer No. **1**
 1 Division (in) **0.0001**
 Start Date **10/17/05**
 Start Time **11:35:05**

Elapsed Time (min)	Dial Reading (div)
Initial	0.0
0.03	1.2
0.05	5.4
0.10	12.1
0.25	20.0
0.53	24.3
1.78	28.4
3.53	30.1
7.85	31.3
16.00	31.9
25.00	32.3
36.00	32.4
49.00	32.6



Tested By **TM** Date **10/17/05** Checked By **GU** Date **10/27/05**



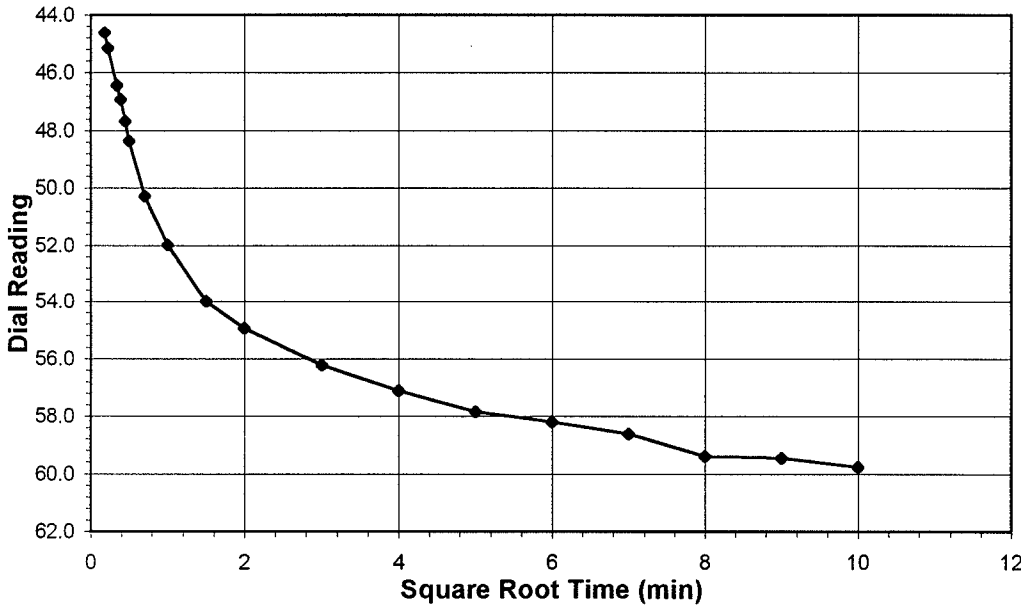
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE
 Client Project: GE PROCESSING FACILITY 20430.011
 Project No.: 2005-329-01
 Lab ID: 2005-329-01-12

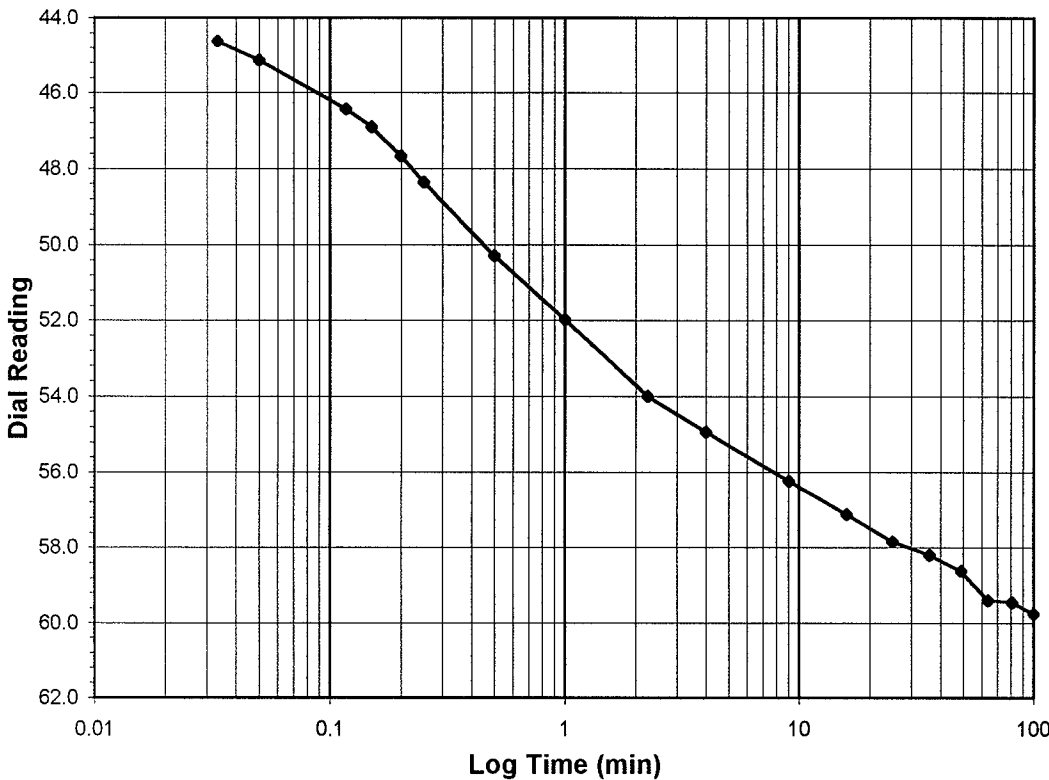
Boring No.: GT-113
 Depth (ft): 70.6-70.8
 Sample No.: ST-2
 Visual Description: SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.25-0.5
 Final Reading (div) 59.8
 Consolidometer No. 1
 1 Division (in) 0.0001
 Start Date 10/17/05
 Start Time 12:28:05

Elapsed Time (min)	Dial Reading (div)
Initial	32.6
0.03	44.6
0.05	45.1
0.12	46.4
0.15	46.9
0.20	47.7
0.25	48.4
0.50	50.3
1.00	52.0
2.25	54.0
4.00	54.9
9.03	56.2
16.00	57.1
25.00	57.9
36.00	58.2
49.00	58.6
64.00	59.4
81.00	59.5
100.00	59.8



Tested By TM Date 10/17/05 Checked By GU Date 10/27/05

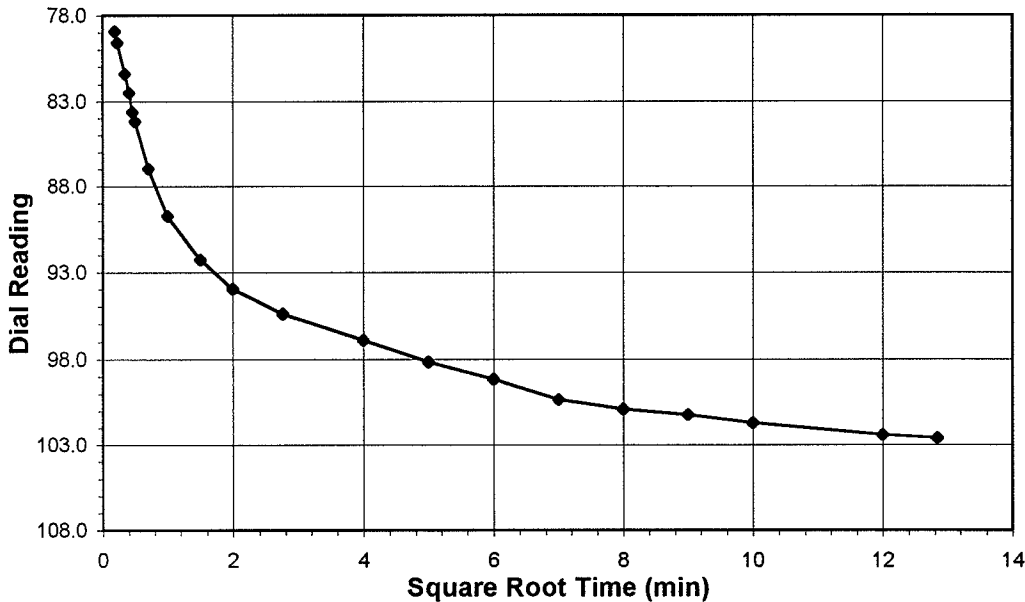
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-12**

Boring No. **GT-113**
 Depth (ft) **70.6-70.8**
 Sample No. **ST-2**
 Visual Description **SOFT GRAY CLAY**

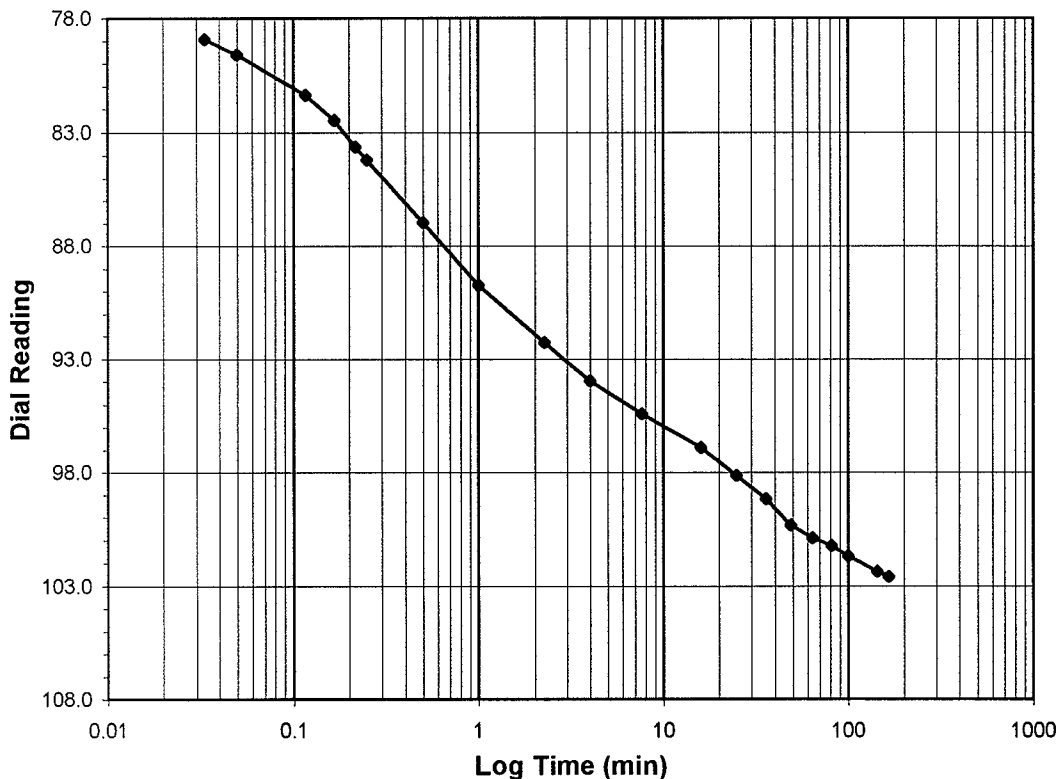
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) **0.5-1.0**
 Final Reading (div) **102.6**
 Consolidometer No. **1**
 1 Division (in) **0.0001**

Start Date **10/17/05**
 Start Time **14:18:41**

Elapsed Time (min)	Dial Reading (div)
Initial	59.8
0.03	78.9
0.05	79.6
0.12	81.4
0.17	82.5
0.22	83.6
0.25	84.2
0.50	87.0
1.00	89.7
2.25	92.3
4.00	94.0
7.67	95.4
16.02	96.9
25.00	98.2
36.00	99.2
49.00	100.4
64.00	100.9
81.00	101.2
100.00	101.7
144.00	102.4
164.90	102.6



Tested By **TM** Date **10/17/05** Checked By **GU** Date **10/27/05**

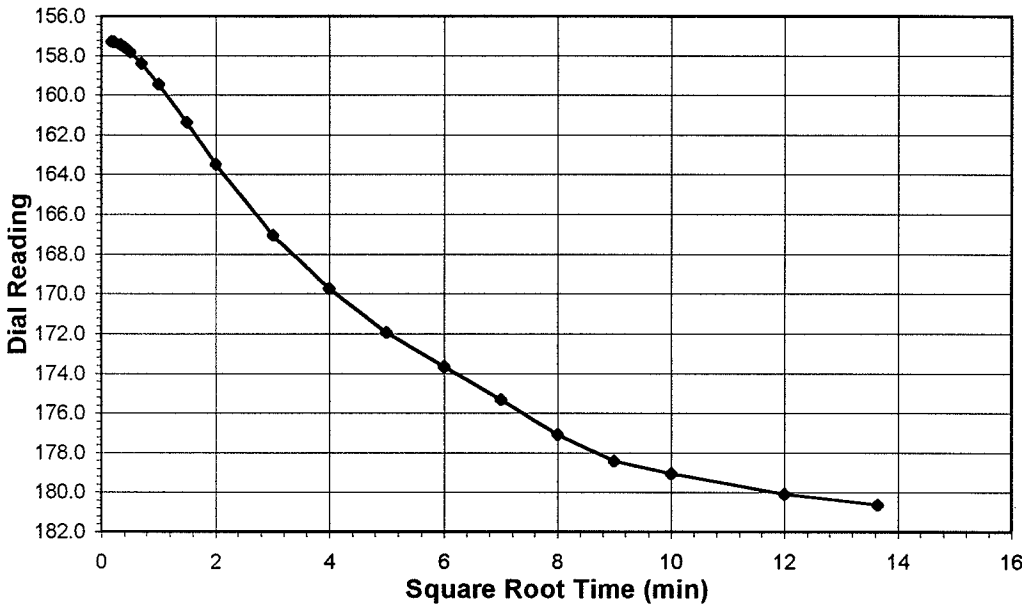
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-12**

Boring No. **GT-113**
 Depth (ft) **70.6-70.8**
 Sample No. **ST-2**
 Visual Description **SOFT GRAY CLAY**

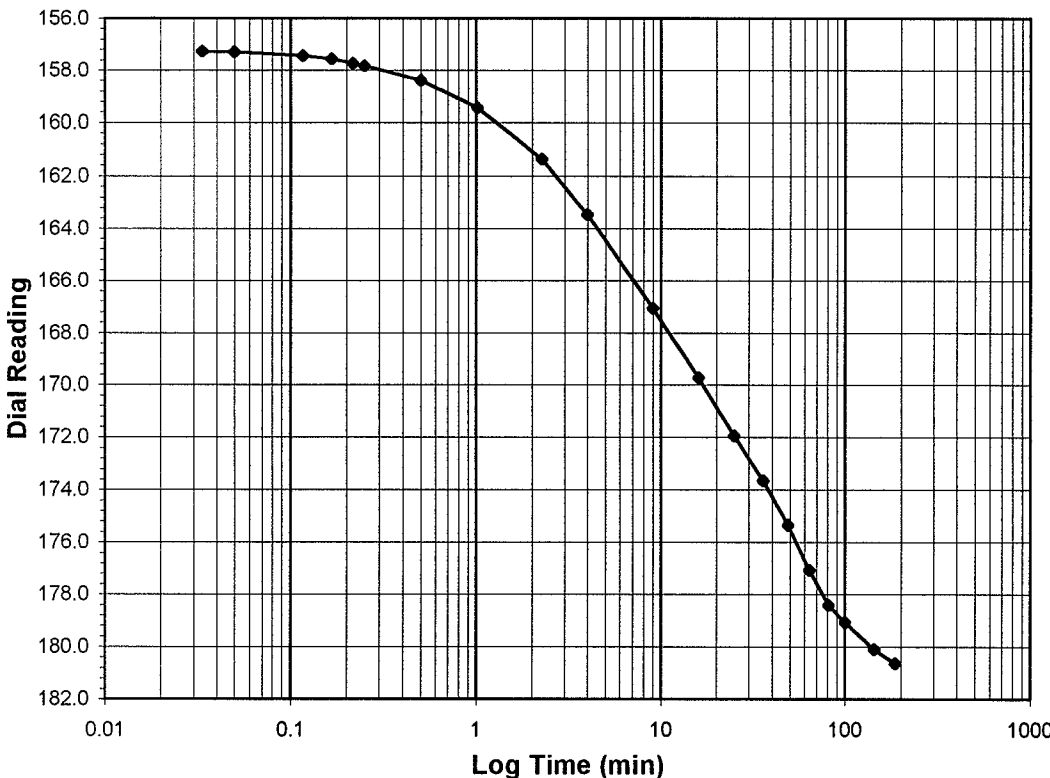
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) **1.0-2.0**
 Final Reading (div) **180.6**
 Consolidometer No. **1**
 1 Division (in) **0.0001**

Start Date **10/18/05**
 Start Time **9:40:32**

Elapsed Time (min)	Dial Reading (div)
Initial	102.6
0.03	157.3
0.05	157.3
0.12	157.4
0.17	157.6
0.22	157.7
0.25	157.8
0.50	158.4
1.02	159.5
2.25	161.4
4.00	163.5
9.07	167.1
16.00	169.7
25.00	171.9
36.00	173.7
49.00	175.3
64.00	177.1
81.00	178.4
100.00	179.1
144.00	180.1
186.20	180.6



Tested By **TM** Date **10/18/05** Checked By **GO** Date **10/27/05**

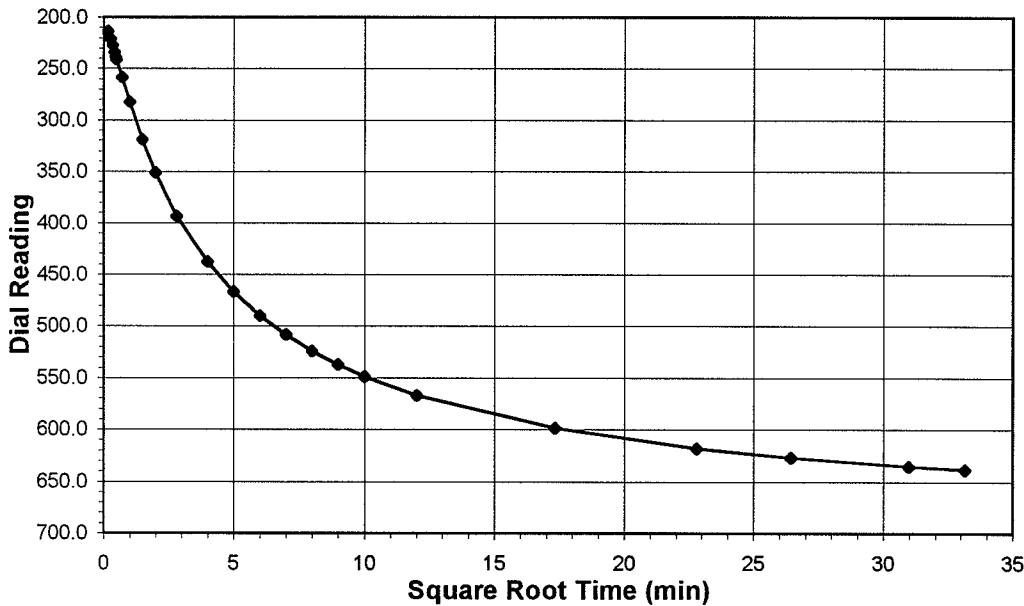
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-12**

Boring No. **GT-113**
 Depth (ft) **70.6-70.8**
 Sample No. **ST-2**
 Visual Description **SOFT GRAY CLAY**

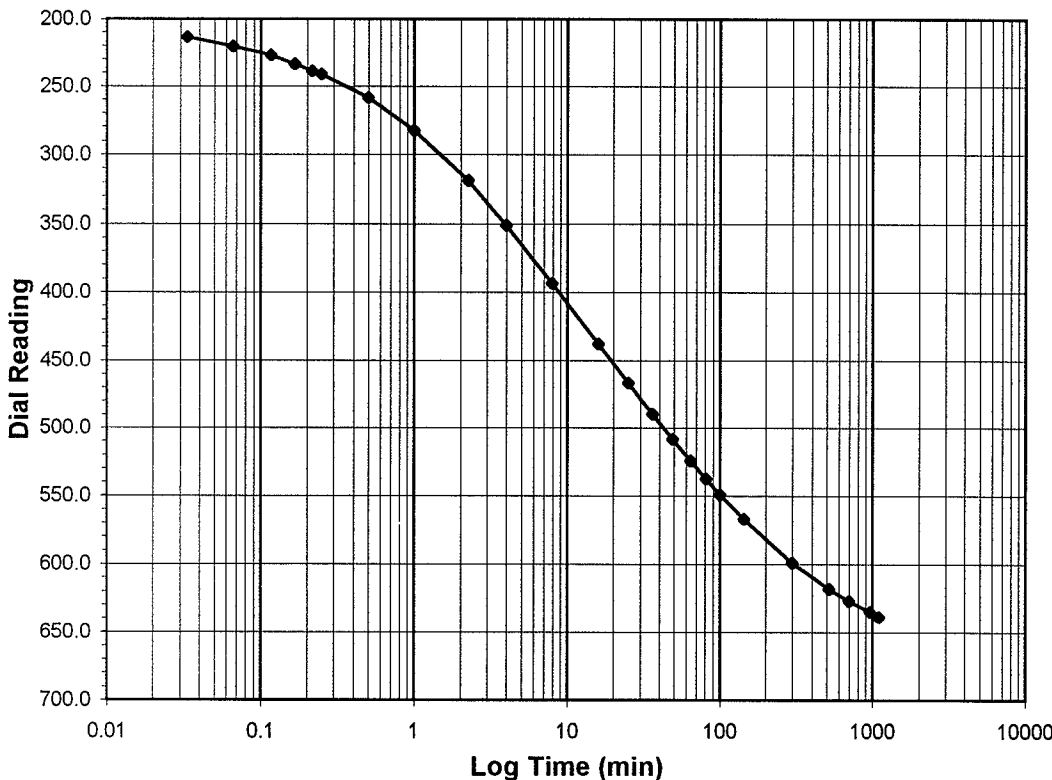
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) **2.0-4.0**
 Final Reading (div) **638.8**
 Consolidometer No. **1**
 1 Division (in) **0.0001**

Start Date **10/18/05**
 Start Time **12:52:33**

Elapsed Time (min)	Dial Reading (div)
Initial	180.6
0.03	213.6
0.07	220.6
0.12	227.2
0.17	233.6
0.22	238.9
0.25	241.3
0.50	258.5
1.00	282.4
2.25	318.9
4.00	351.1
7.98	393.3
16.00	437.9
25.00	466.7
36.00	489.8
49.00	508.3
64.00	524.2
81.00	537.4
100.00	549.1
144.00	567.3
300.00	598.9
520.00	618.3
700.00	627.1
960.00	635.4
1100.00	638.8



Tested By **TM** Date **10/18/05** Checked By **GU** Date **10/27/05**

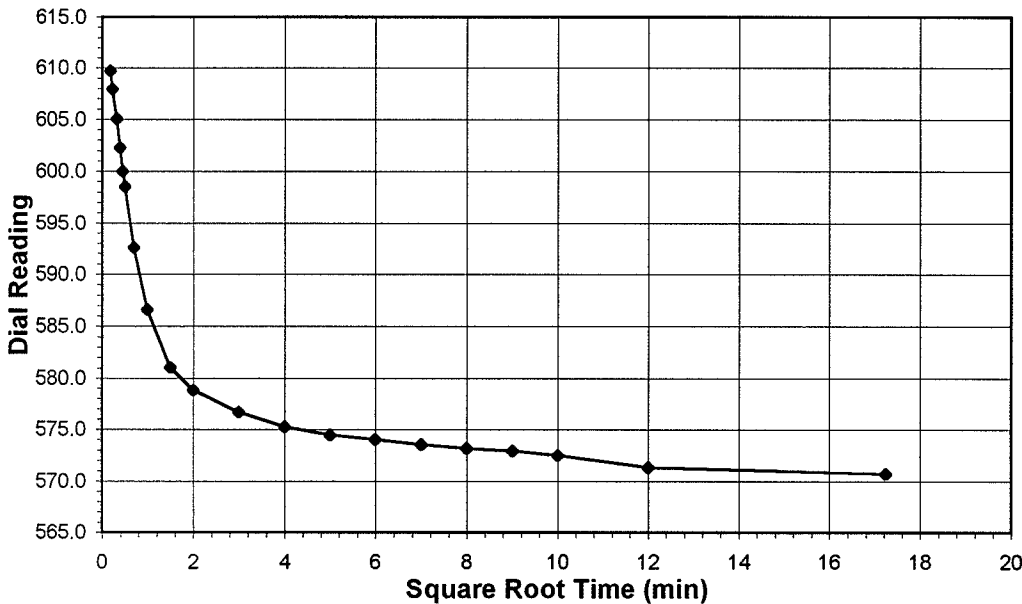
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-12**

Boring No. **GT-113**
 Depth (ft) **70.6-70.8**
 Sample No. **ST-2**
 Visual Description **SOFT GRAY CLAY**

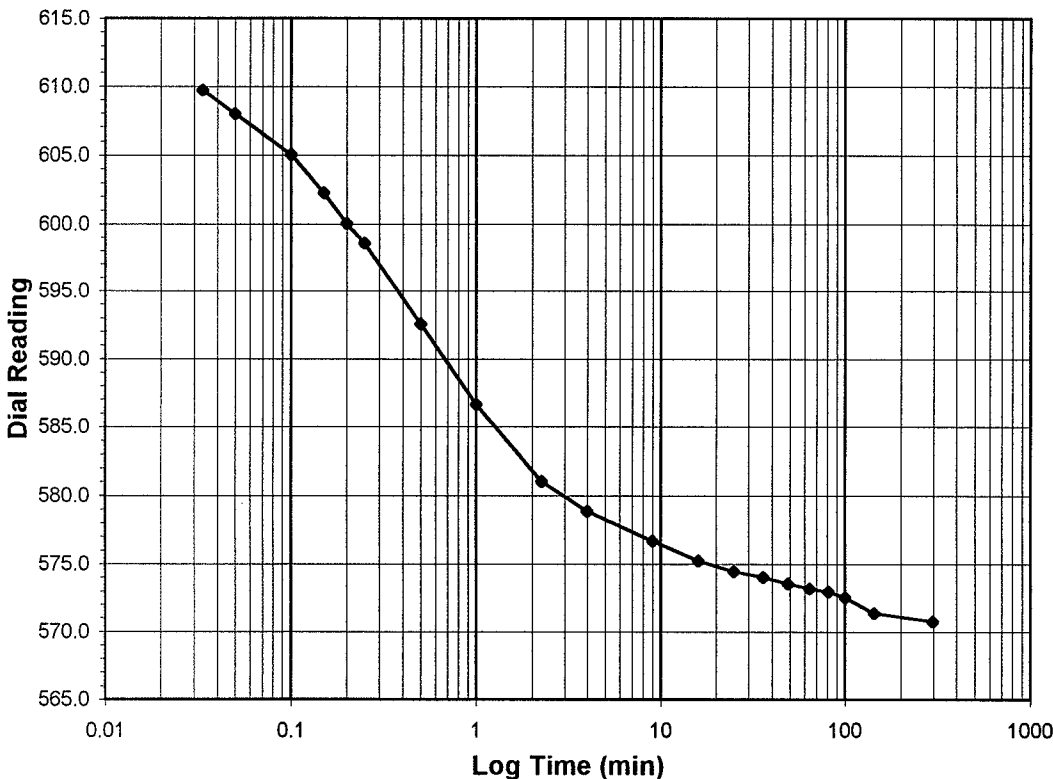
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 4.0-1.0
Final Reading (div) 570.7
 Consolidometer No. 1
 1 Division (in) 0.0001

Start Date 10/19/05
Start Time 7:27:26

Elapsed Time (min)	Dial Reading (div)
Initial	638.8
0.03	609.7
0.05	607.9
0.10	605.1
0.15	602.3
0.20	600.0
0.25	598.6
0.50	592.6
1.00	586.6
2.25	581.0
4.00	578.8
9.02	576.7
16.00	575.2
25.00	574.5
36.00	574.0
49.00	573.5
64.00	573.2
81.00	572.9
100.00	572.5
144.00	571.3
297.03	570.7



Tested By **TM** Date **10/19/05** Checked By **GU** Date **10/27/05**

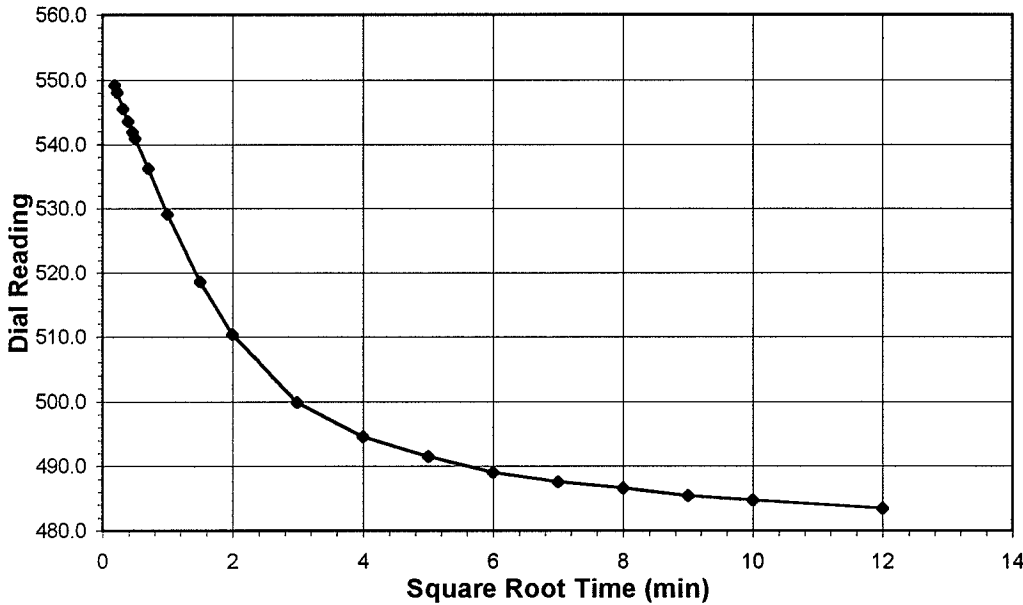
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-12**

Boring No. **GT-113**
 Depth (ft) **70.6-70.8**
 Sample No. **ST-2**
 Visual Description **SOFT GRAY CLAY**

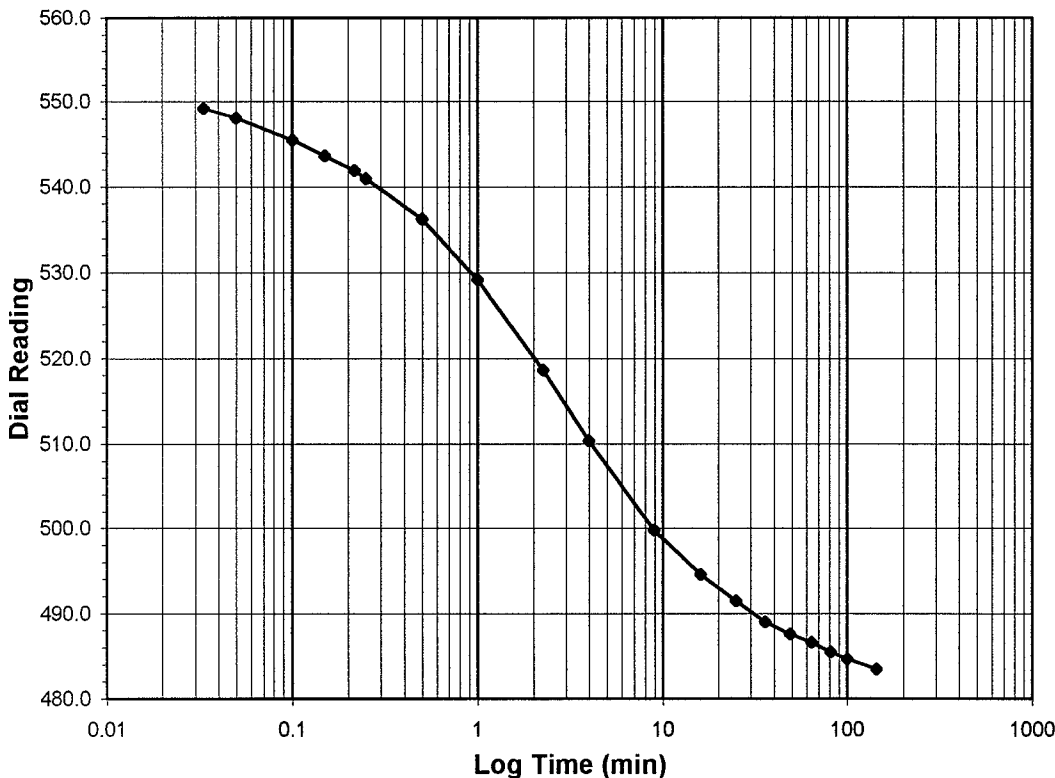
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) **1.0-0.25**
 Final Reading (div) **483.5**
 Consolidometer No. **1**
 1 Division (in) **0.0001**

Start Date **10/19/05**
 Start Time **12:35:22**

Elapsed Time (min)	Dial Reading (div)
Initial	570.7
0.03	549.2
0.05	548.1
0.10	545.6
0.15	543.6
0.22	541.9
0.25	540.9
0.50	536.2
1.00	529.2
2.25	518.6
4.00	510.3
8.93	499.8
16.00	494.5
25.00	491.5
36.00	489.0
49.00	487.5
64.00	486.6
81.00	485.4
100.00	484.7
144.00	483.5



Tested By **TM** Date **10/19/05** Checked By **GU** Date **10/27/05**



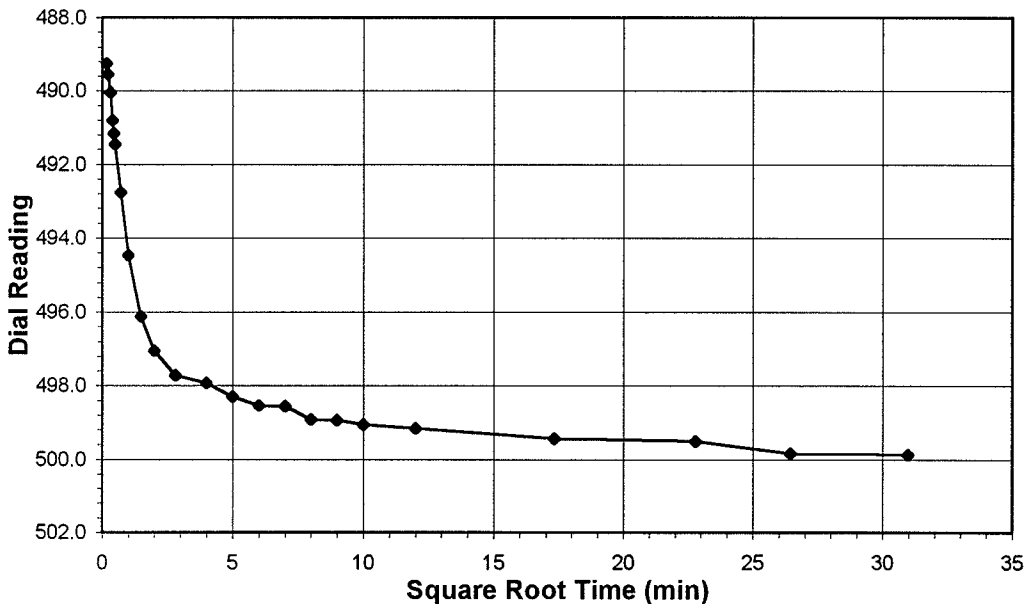
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE
 Client Project: GE PROCESSING FACILITY 20430.011
 Project No.: 2005-329-01
 Lab ID: 2005-329-01-12

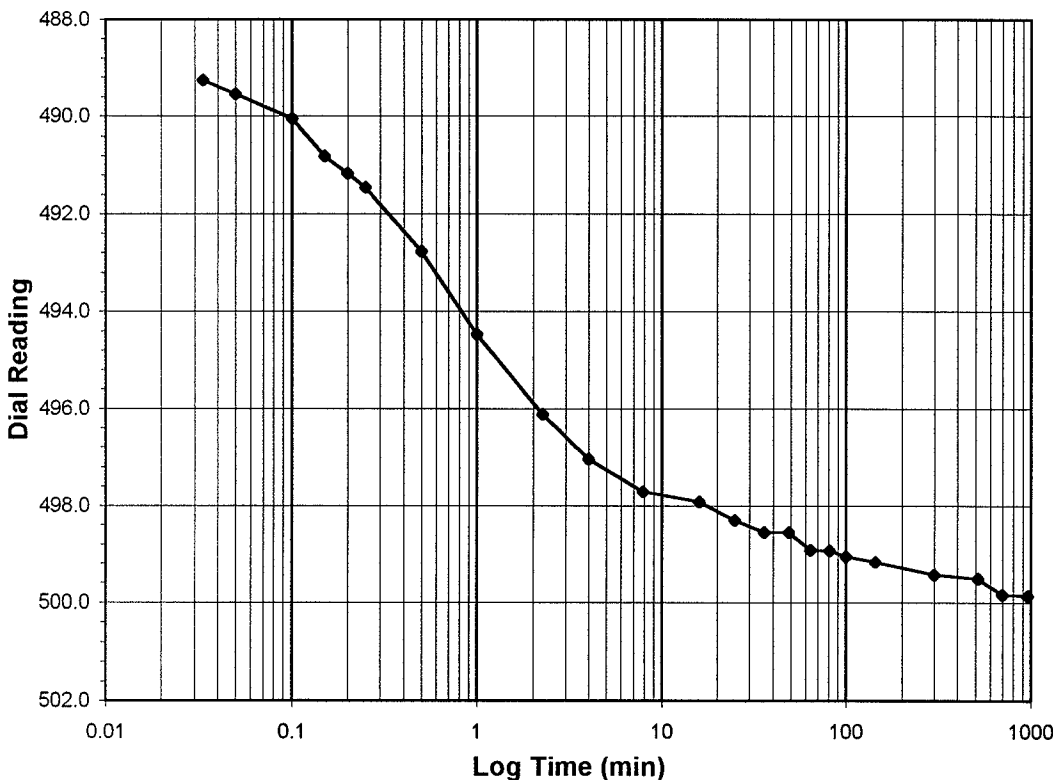
Boring No.: GT-113
 Depth (ft): 70.6-70.8
 Sample No.: ST-2
 Visual Description: SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.25-0.5
 Final Reading (div) 499.9
 Consolidometer No. 1
 1 Division (in) 0.0001
 Start Date 10/19/05
 Start Time 15:01:58

Elapsed Time (min)	Dial Reading (div)
Initial	483.5
0.03	489.3
0.05	489.6
0.10	490.1
0.15	490.8
0.20	491.2
0.25	491.5
0.50	492.8
1.00	494.5
2.25	496.1
4.00	497.1
7.88	497.7
16.00	497.9
25.00	498.3
36.00	498.6
49.00	498.6
64.00	498.9
81.00	498.9
100.00	499.1
144.00	499.2
300.00	499.4
520.00	499.5
700.00	499.8
960.00	499.9



Tested By TM Date 10/19/05 Checked By GU Date 10/27/05

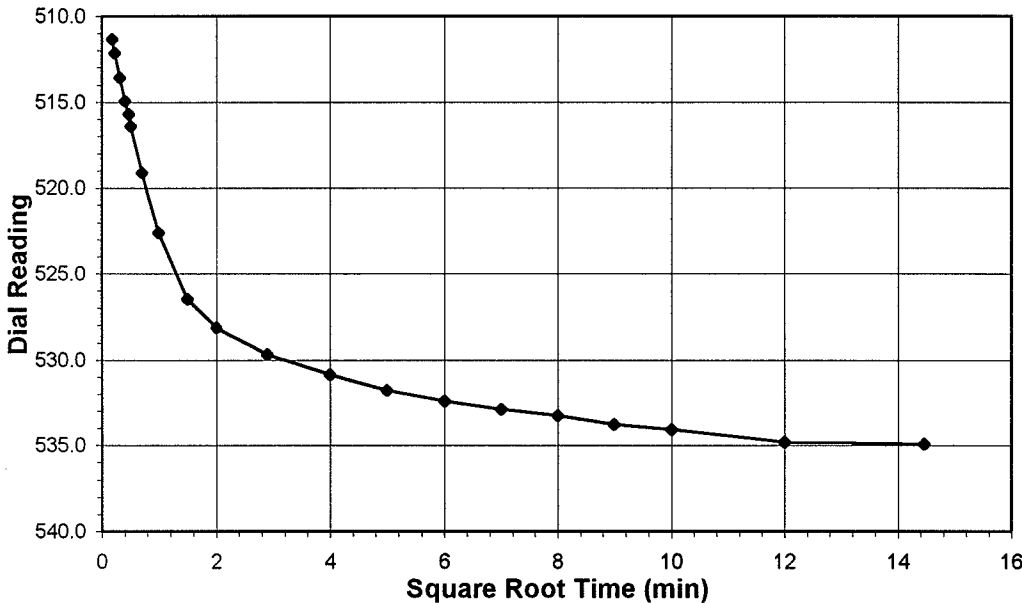


ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-12**

Boring No. **GT-113**
 Depth (ft) **70.6-70.8**
 Sample No. **ST-2**
 Visual Description **SOFT GRAY CLAY**

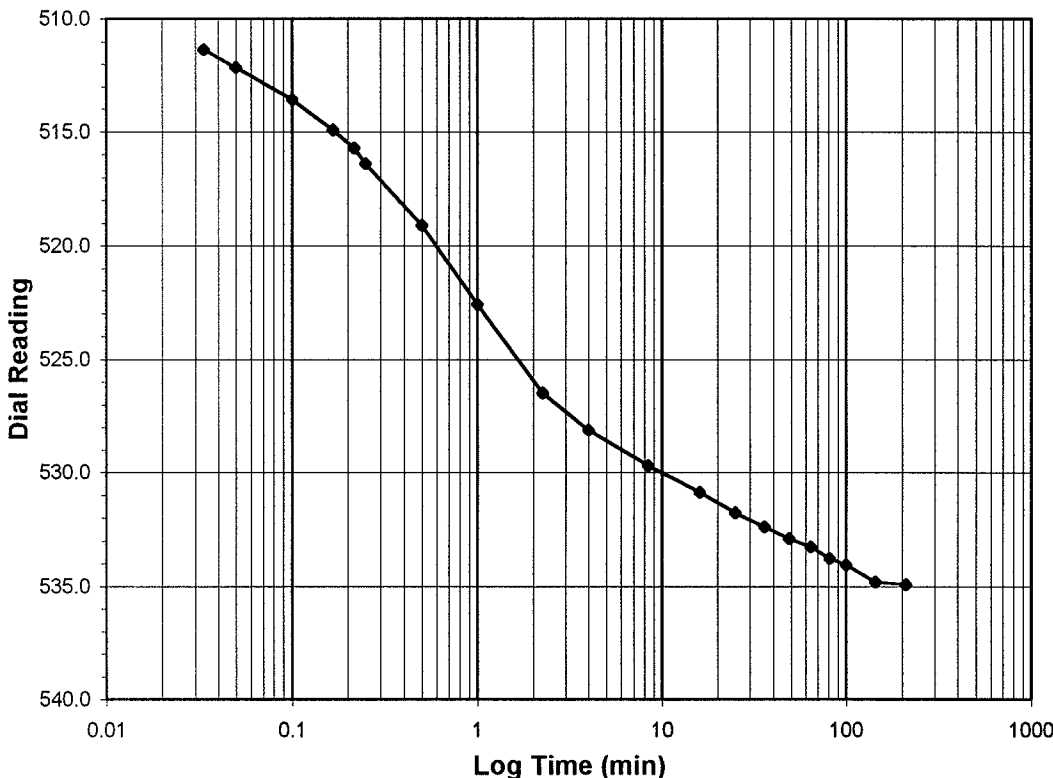
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.5-1.0
Final Reading (div) 534.9
 Consolidometer No. **1**
 1 Division (in) **0.0001**

Start Date 10/20/05
Start Time 7:27:46

Elapsed Time (min)	Dial Reading (div)
Initial	499.9
0.03	511.3
0.05	512.1
0.10	513.6
0.17	514.9
0.22	515.7
0.25	516.4
0.50	519.1
1.00	522.6
2.25	526.5
4.00	528.1
8.39	529.7
16.00	530.9
25.00	531.8
36.00	532.4
49.00	532.9
64.00	533.3
81.00	533.8
100.00	534.1
144.00	534.8
209.17	534.9



Tested By **TM** Date **10/20/05** Checked By **GU** Date **10/27/05**



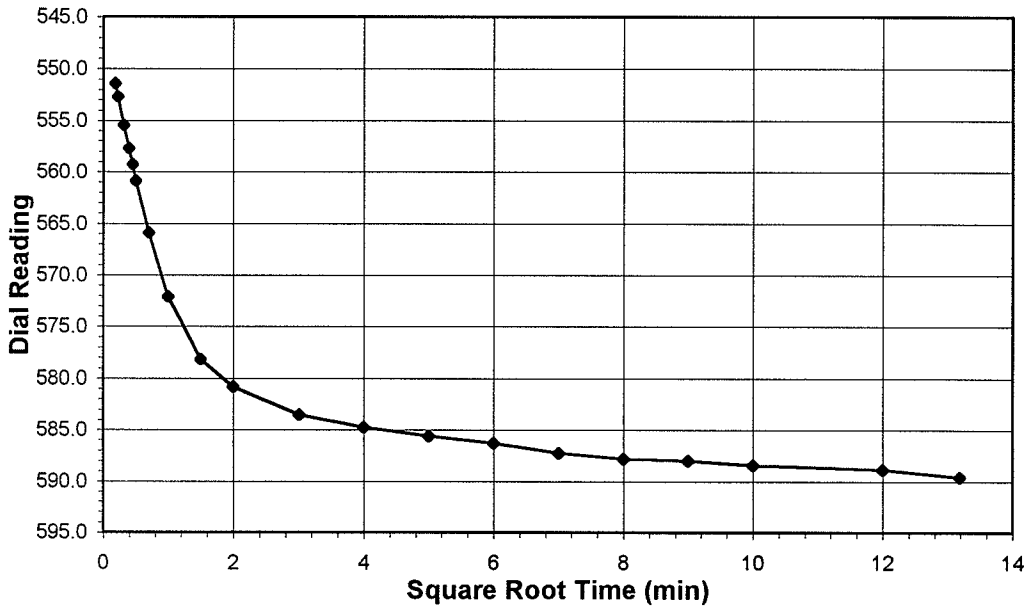
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-12**

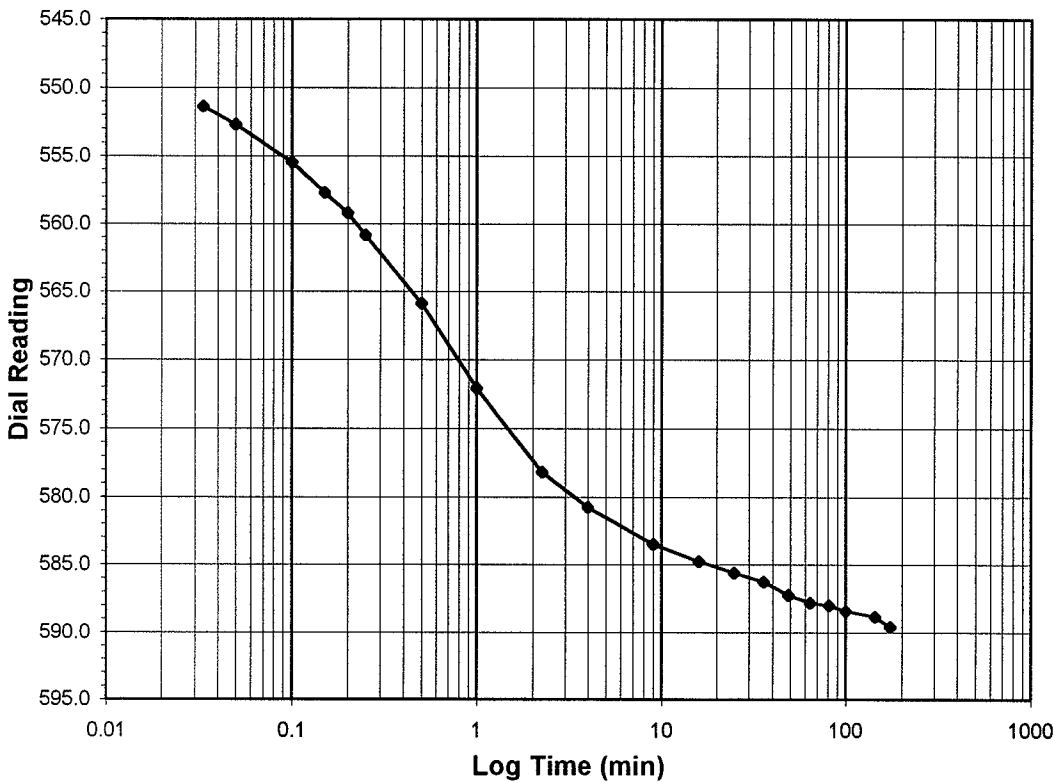
Boring No. **GT-113**
 Depth (ft) **70.6-70.8**
 Sample No. **ST-2**
 Visual Description **SOFT GRAY CLAY**

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 1.0-2.0
Final Reading (div) 589.6
 Consolidometer No. 1
 1 Division (in) 0.0001
 Start Date 10/20/05
 Start Time 11:17:36

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	534.9
0.03	551.4
0.05	552.7
0.10	555.5
0.15	557.7
0.20	559.2
0.25	560.9
0.50	565.9
1.00	572.1
2.25	578.2
4.00	580.8
9.03	583.5
16.00	584.8
25.00	585.6
36.00	586.3
49.00	587.2
64.00	587.8
81.00	588.0
100.00	588.4
144.02	588.8
173.82	589.6



Tested By **TM** Date **10/20/05** Checked By **GC** Date **10/27/05**



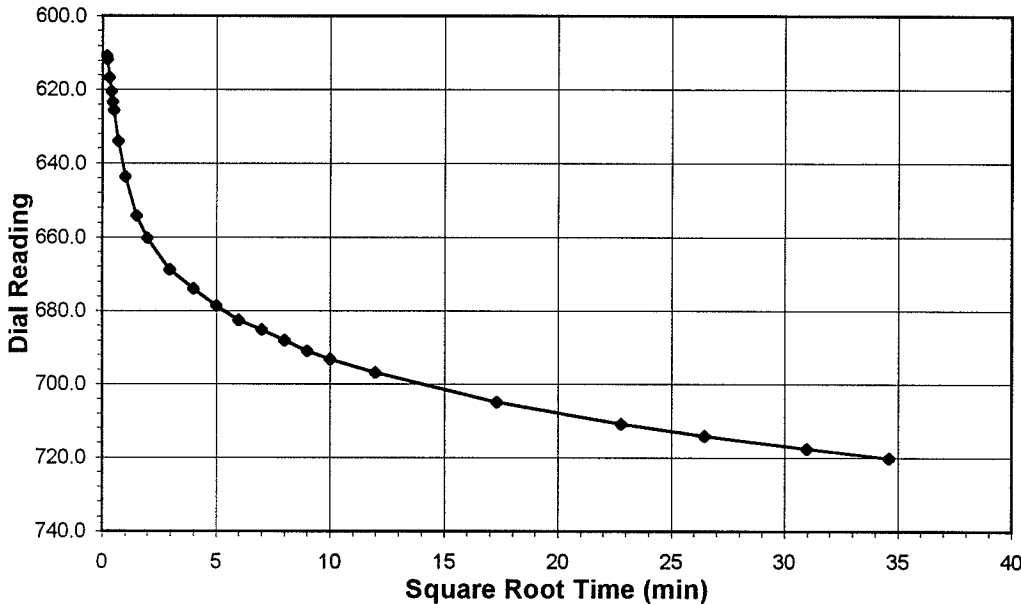
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE
 Client Project: GE PROCESSING FACILITY 20430.011
 Project No.: 2005-329-01
 Lab ID: 2005-329-01-12

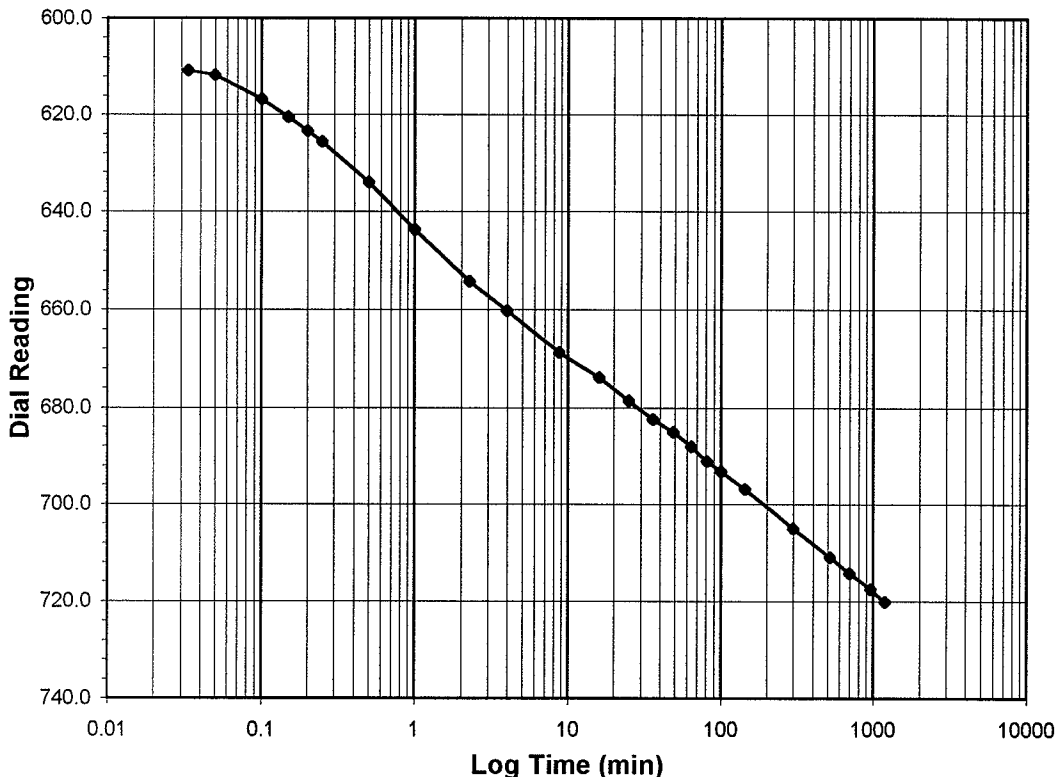
Boring No.: GT-113
 Depth (ft): 70.6-70.8
 Sample No.: ST-2
 Visual Description: SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 2.0-4.0
 Final Reading (div): 720.2
 Consolidometer No.: 1
 1 Division (in): 0.0001
 Start Date: 10/20/05
 Start Time: 14:18:34

Elapsed Time (min)	Dial Reading (div)
Initial	589.6
0.03	610.8
0.05	611.7
0.10	616.7
0.15	620.5
0.20	623.5
0.25	625.6
0.50	634.1
1.00	643.7
2.27	654.2
4.00	660.3
8.78	668.7
16.00	673.9
25.00	678.6
36.00	682.5
49.00	685.1
64.00	688.1
81.00	691.1
100.00	693.2
144.00	696.9
300.00	705.0
520.00	711.0
700.00	714.2
960.00	717.6
1198.58	720.2



Tested By: TM Date: 10/20/05 Checked By: GU Date: 10/27/05

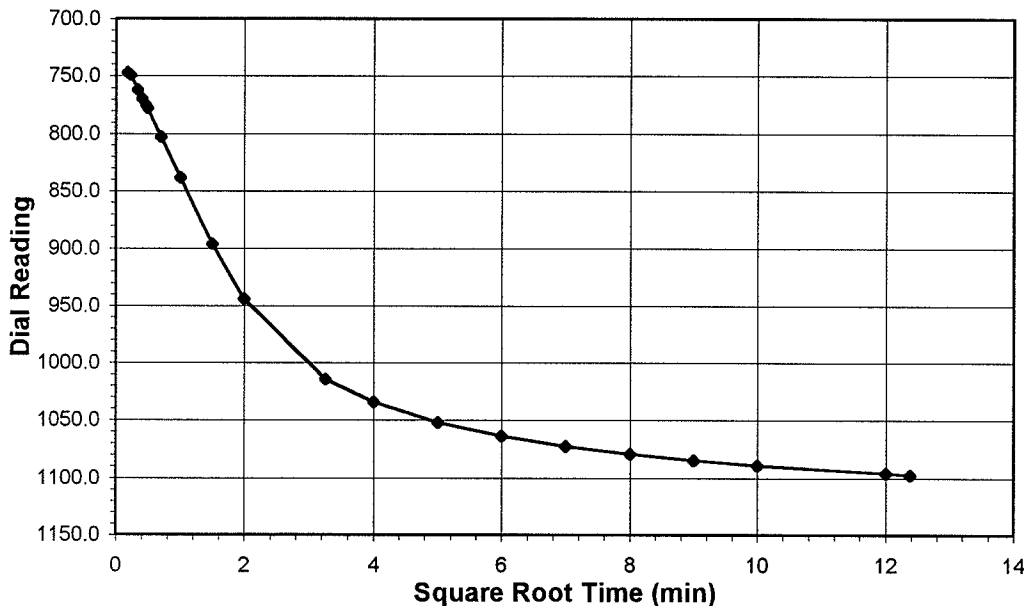
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-12**

Boring No. **GT-113**
 Depth (ft) **70.6-70.8**
 Sample No. **ST-2**
 Visual Description **SOFT GRAY CLAY**

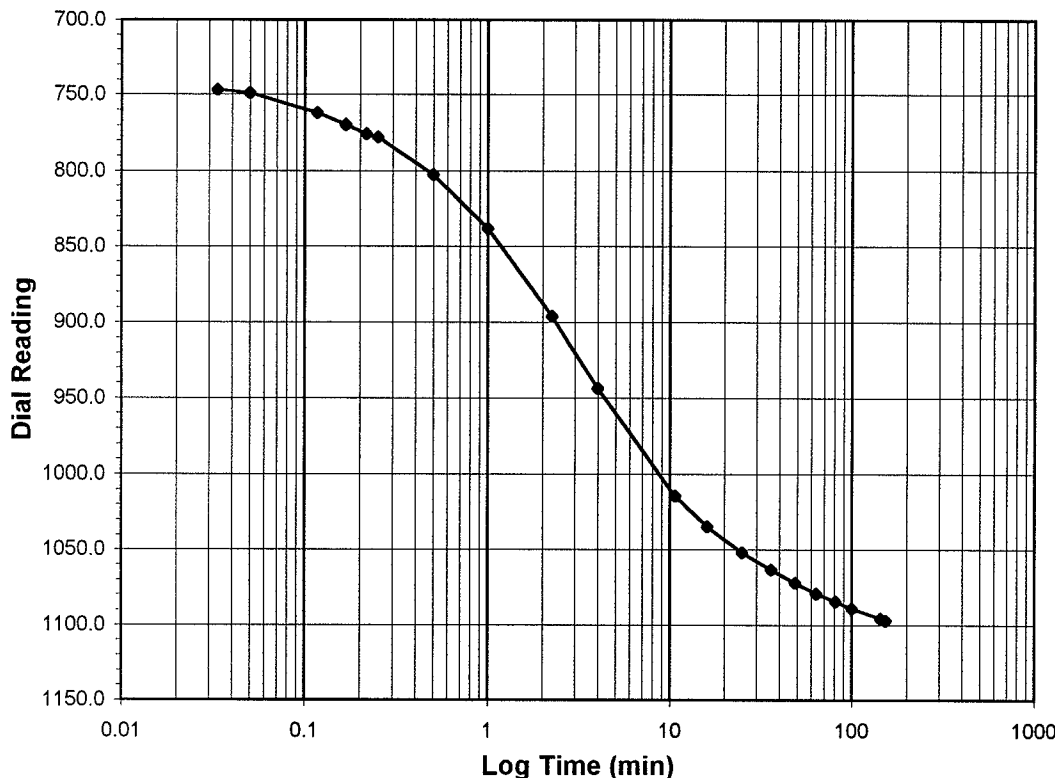
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) **4.0-8.0**
 Final Reading (div) **1097.4**
 Consolidometer No. **1**
 1 Division (in) **0.0001**

Start Date **10/21/05**
 Start Time **10:29:34**

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	720.2
0.03	746.8
0.05	748.9
0.12	762.1
0.17	769.9
0.22	775.4
0.25	777.7
0.50	802.7
1.00	838.2
2.25	896.0
4.00	944.0
10.63	1014.3
16.00	1034.5
25.00	1051.9
36.00	1063.6
49.00	1072.4
64.00	1079.3
81.00	1084.7
100.00	1089.3
144.00	1096.0
153.32	1097.4



Tested By **TM** Date **10/21/05** Checked By **GU** Date **10/27/05**



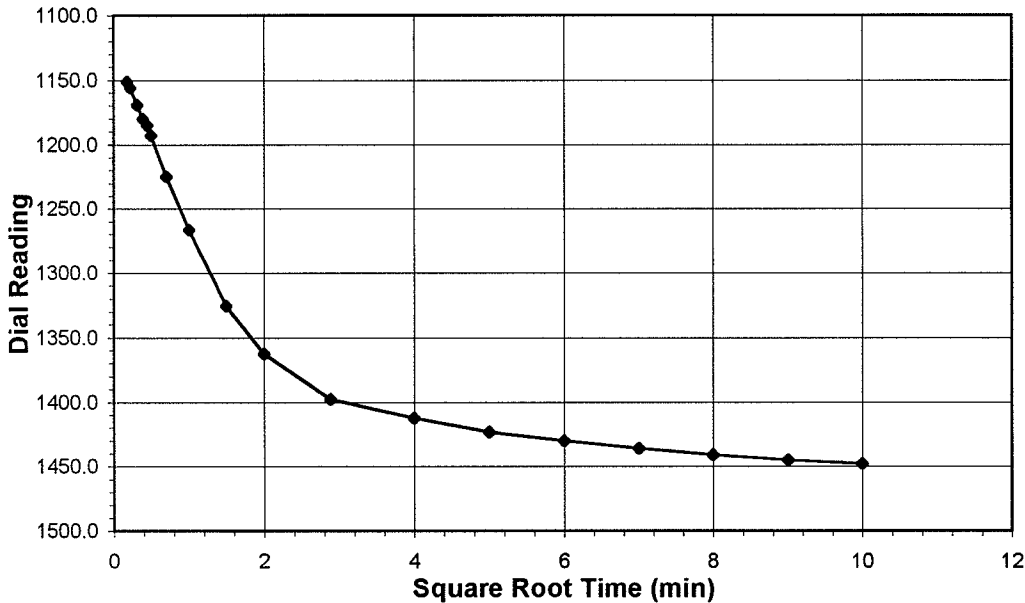
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE
 Client Project: GE PROCESSING FACILITY 20430.011
 Project No.: 2005-329-01
 Lab ID: 2005-329-01-12

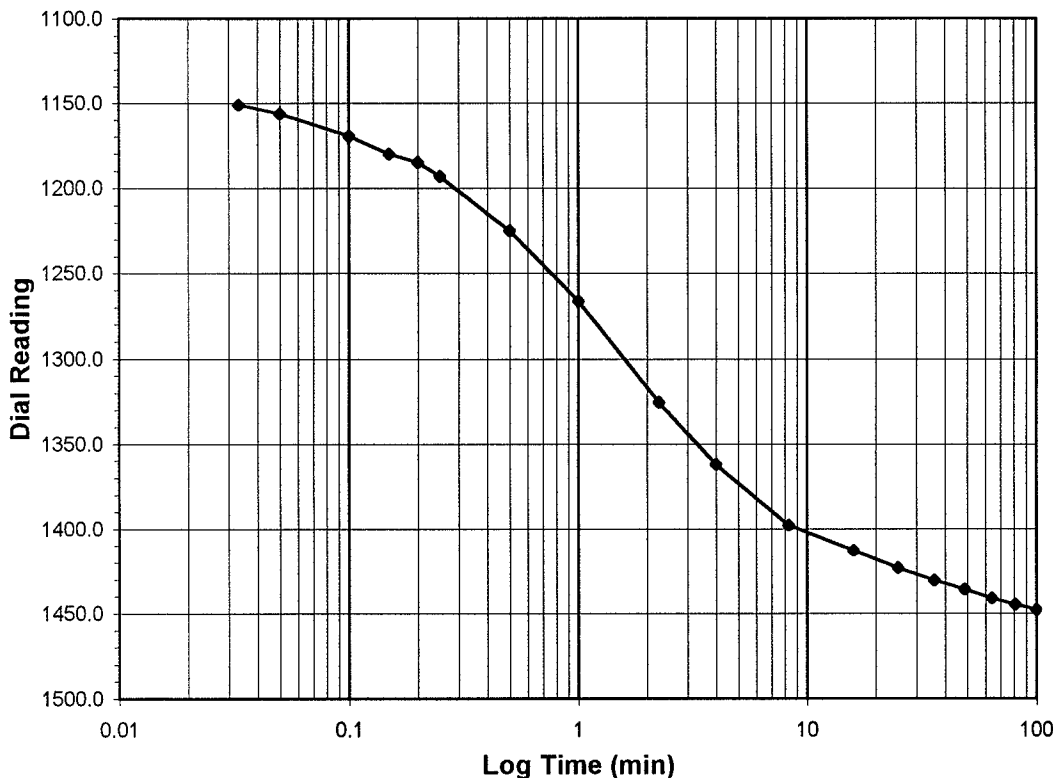
Boring No.: GT-113
 Depth (ft): 70.6-70.8
 Sample No.: ST-2
 Visual Description: SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 8.0-16.0
 Final Reading (div): 1447.8
 Consolidometer No.: 1
 1 Division (in): 0.0001
 Start Date: 10/21/05
 Start Time: 13:13:56

Elapsed Time (min)	Dial Reading (div)
Initial	1097.4
0.03	1151.1
0.05	1156.2
0.10	1169.5
0.15	1179.9
0.20	1184.8
0.25	1193.0
0.50	1224.7
1.00	1266.5
2.25	1325.4
4.00	1362.2
8.33	1397.9
16.00	1412.8
25.00	1423.1
36.00	1430.4
49.00	1435.9
64.00	1440.9
81.00	1444.7
100.00	1447.8



Tested By: TM Date: 10/21/05 Checked By: GU Date: 10/27/05

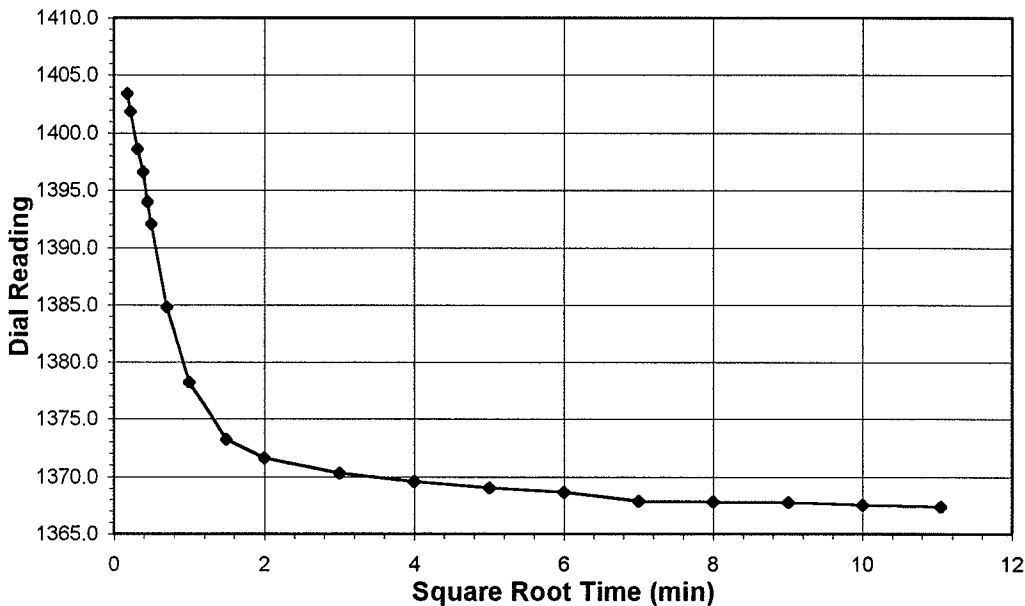
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-12**

Boring No. **GT-113**
 Depth (ft) **70.6-70.8**
 Sample No. **ST-2**
 Visual Description **SOFT GRAY CLAY**

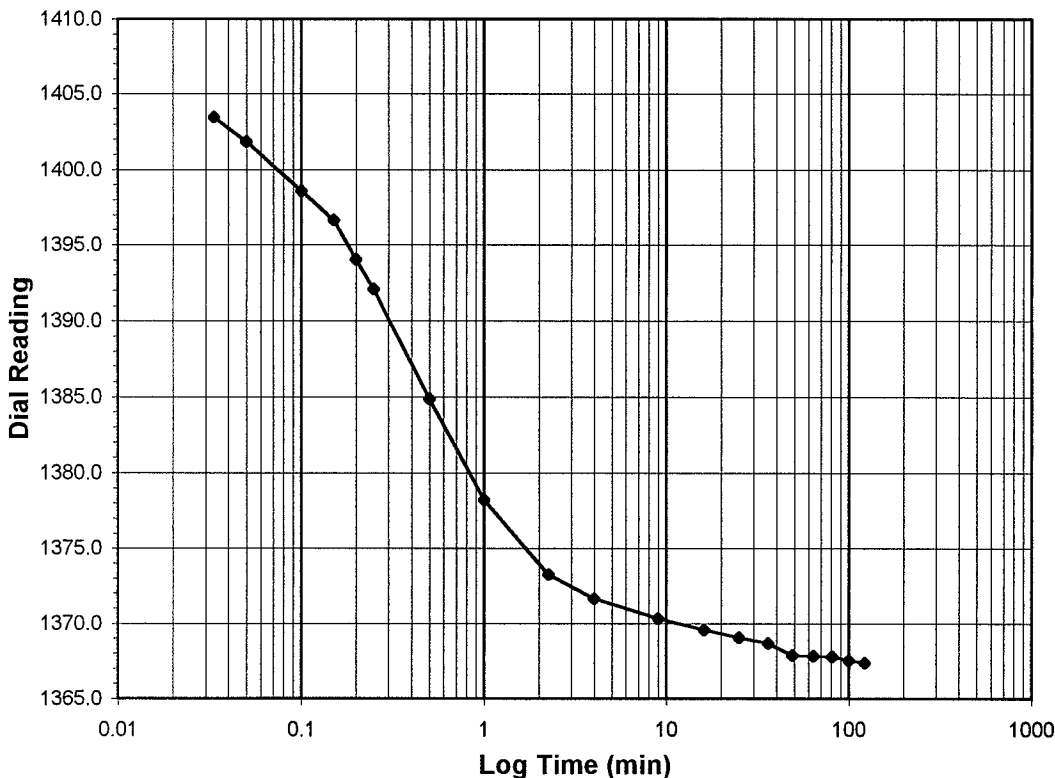
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 16.0-4.0
Final Reading (div) 1367.4
 Consolidometer No. 1
 1 Division (in) 0.0001

Start Date 10/21/05
Start Time 15:15:49

Elapsed Time (min)	Dial Reading (div)
Initial	1447.8
0.03	1403.4
0.05	1401.9
0.10	1398.6
0.15	1396.6
0.20	1394.0
0.25	1392.1
0.50	1384.9
1.00	1378.2
2.25	1373.3
4.00	1371.6
9.02	1370.3
16.02	1369.6
25.00	1369.0
36.00	1368.7
49.00	1367.9
64.00	1367.8
81.00	1367.8
100.00	1367.5
122.12	1367.4



Tested By **TM** Date **10/21/05** Checked By **GU** Date **10/27/05**



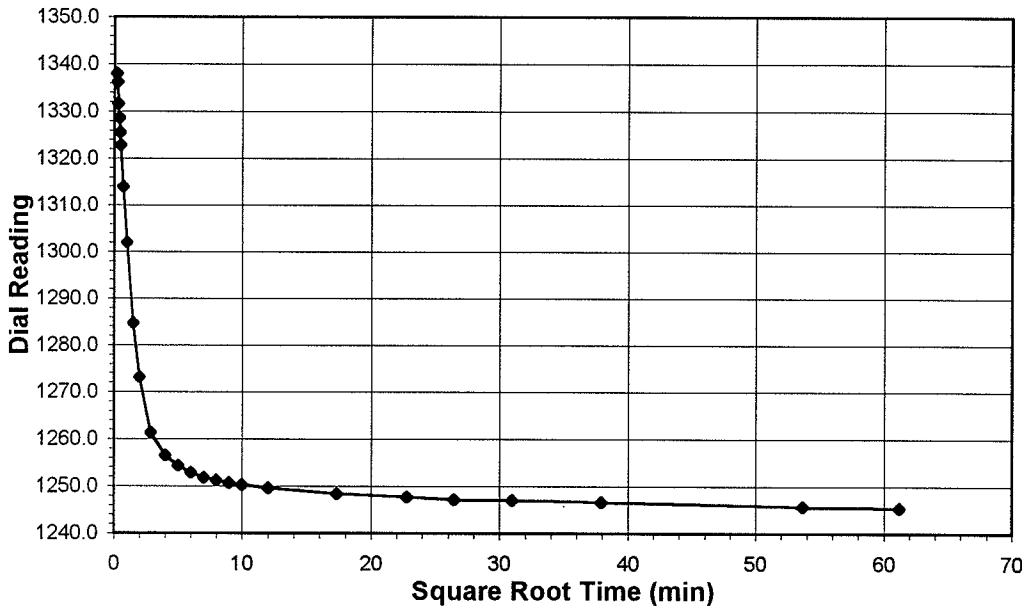
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE
 Client Project: GE PROCESSING FACILITY 20430.011
 Project No.: 2005-329-01
 Lab ID: 2005-329-01-12

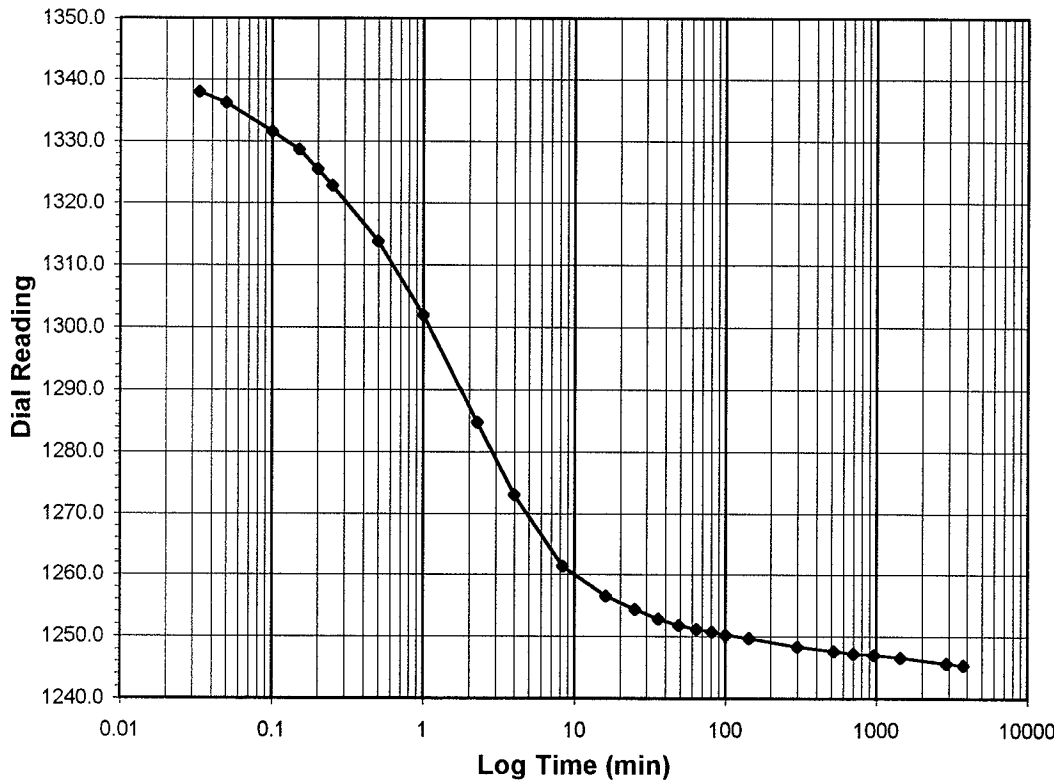
Boring No.: GT-113
 Depth (ft): 70.6-70.8
 Sample No.: ST-2
 Visual Description: SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	1245.4
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	10/21/05
Start Time	17:19:33

Elapsed Time (min)	Dial Reading (div)
Initial	1367.4
0.03	1338.0
0.05	1336.2
0.10	1331.6
0.15	1328.6
0.20	1325.5
0.25	1322.8
0.50	1313.9
1.00	1302.0
2.27	1284.8
4.00	1273.1
8.33	1261.4
16.00	1256.5
25.02	1254.3
36.00	1252.8
49.00	1251.8
64.02	1251.2
81.00	1250.7
100.00	1250.3
144.00	1249.7
300.00	1248.3
520.05	1247.7
700.00	1247.2
960.00	1247.0
1440.00	1246.6
2880.00	1245.7
3750.00	1245.4



Tested By: TM Date: 10/21/05 Checked By: GU Date: 10/27/05

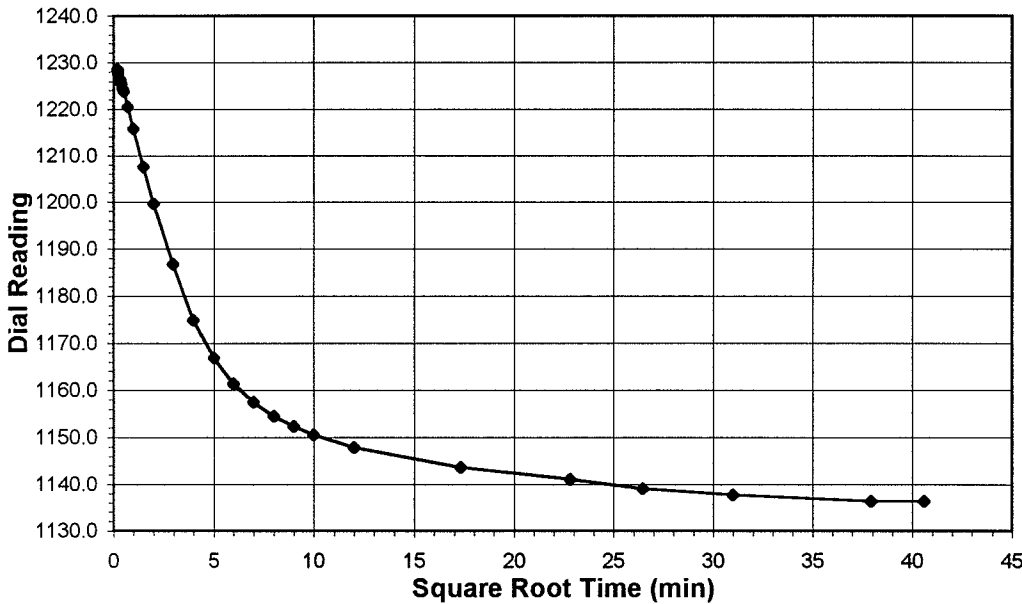
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-12**

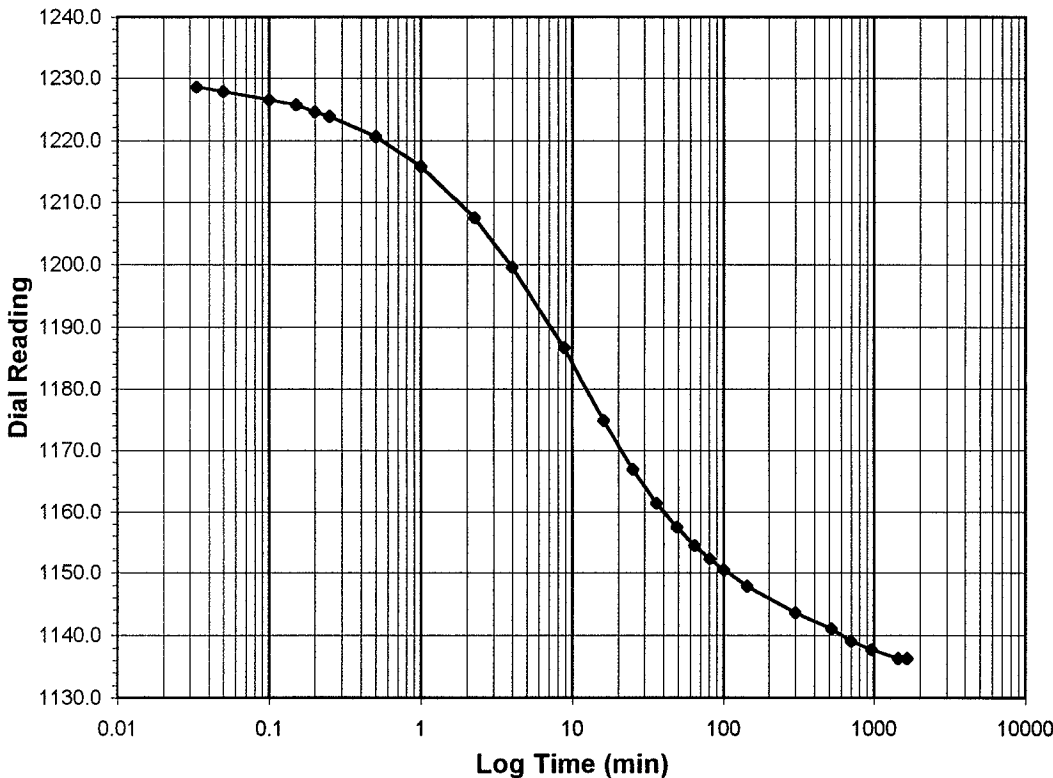
Boring No. **GT-113**
 Depth (ft) **70.6-70.8**
 Sample No. **ST-2**
 Visual Description **SOFT GRAY CLAY**

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 1.0-0.25
Final Reading (div) 1136.3
 Consolidometer No. 1
 1 Division (in) 0.0001
 Start Date 10/24/05
 Start Time 8:04:03

Elapsed Time (min)	Dial Reading (div)
Initial	1245.4
0.03	1228.5
0.05	1227.8
0.10	1226.5
0.15	1225.6
0.20	1224.5
0.25	1223.8
0.50	1220.6
1.00	1215.8
2.25	1207.6
4.00	1199.7
8.78	1186.7
16.00	1174.9
25.00	1166.9
36.00	1161.4
49.00	1157.5
64.00	1154.5
81.00	1152.3
100.00	1150.5
144.00	1147.8
300.00	1143.7
520.00	1141.0
700.00	1139.1
960.00	1137.7
1440.00	1136.3
1647.67	1136.3



Tested By **TM** Date **10/24/05** Checked By **GO** Date **10/27/05**

SIEVE AND HYDROMETER ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-01	Sample No.	BULK-1
Lab ID	2005-329-01-01	Soil Color	GRAY AND BROWN

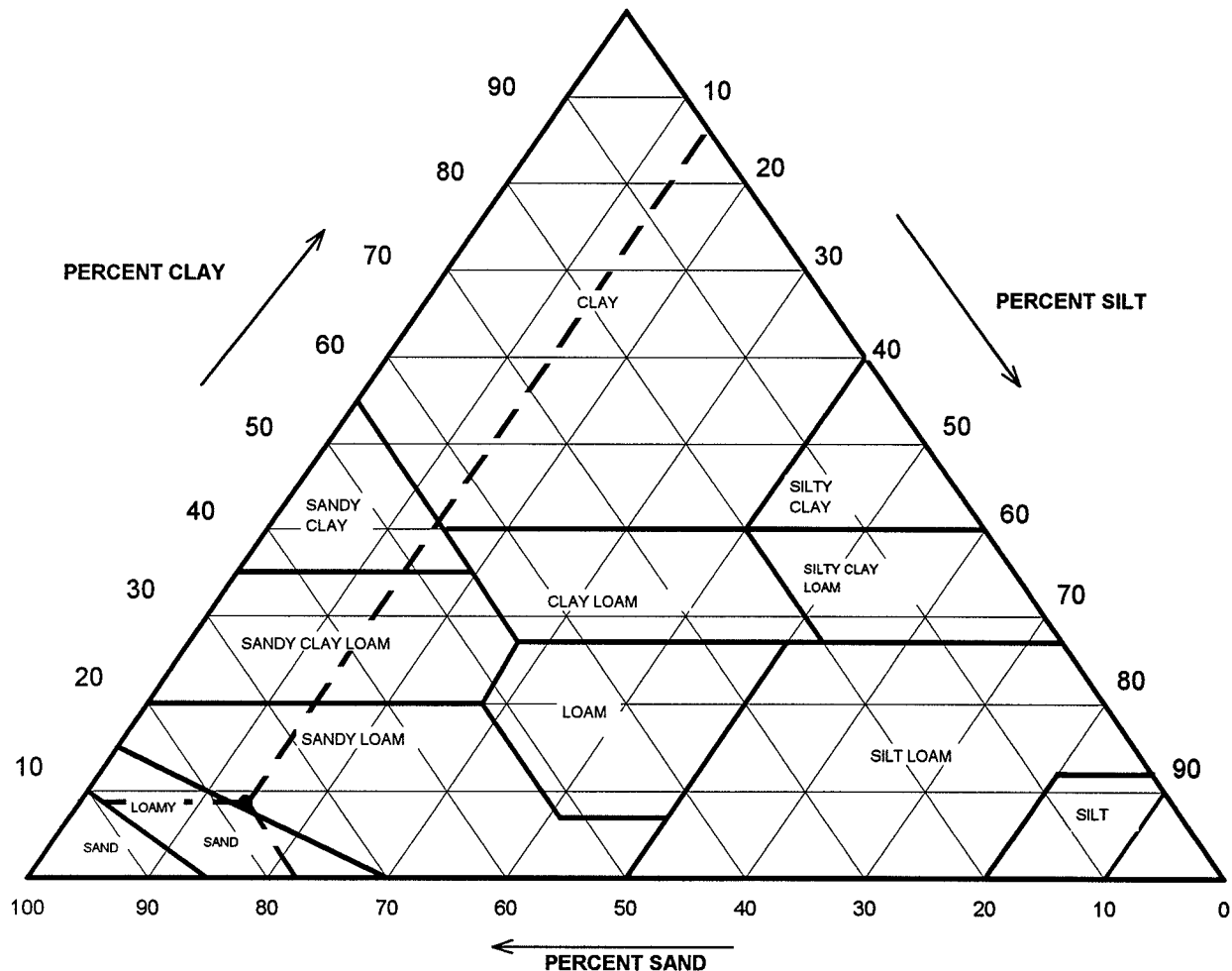
USCS	SIEVE ANALYSIS			HYDROMETER	
	cobble	gravel	sand	silt and clay fraction	
USDA	cobble	gravel	sand	silt	clay



USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	Gravel	1.12
#4 To #200	Sand	72.64
Finer Than #200	Silt & Clay	26.24
USCS Symbol	SM, TESTED (NON-PLASTIC FINES)	
USCS Classification	SILTY SAND	

USDA CLASSIFICATION CHART

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-01	Sample No.	BULK-1
Lab ID	2005-329-01-01	Soil Color	GRAY AND BROWN



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	3.35	0.00
2	96.65	<i>Sand</i>	74.87	77.46
0.05	21.78	<i>Silt</i>	13.34	13.81
0.002	8.44	<i>Clay</i>	8.44	8.73
USDA Classification		SANDY LOAM		



WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-01	Sample No.	BULK-1
Lab ID	2005-329-01-01	Soil Color	GRAY AND BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	679	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	1300.60	Wgt. Tare + Wet Specimen (gm)	NA
Wgt. Tare + Dry Specimen (gm)	1269.90	Wgt. Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	99.00	Weight of Tare (gm)	NA
Weight of Water (gm)	30.70	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	1170.90	Weight of Dry Soil (gm)	NA
Moisture Content (%)	2.6	Moisture Content (%)	NA

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	1170.90
Dry Weight - 3/4" Sample (gm)	863.64	Weight of minus #200 material (gm)	307.26
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	863.64
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.00	0.00	100.00	100.00
6"	150	0.00	0.00	0.00	100.00	100.00
3"	75	0.00	0.00	0.00	100.00	100.00
2"	50	0.00	0.00	0.00	100.00	100.00
1 1/2"	37.5	0.00	0.00	0.00	100.00	100.00
1"	25.0	0.00	0.00	0.00	100.00	100.00
3/4"	19.0	0.00	0.00	0.00	100.00	100.00
1/2"	12.5	4.98	0.43	0.43	99.57	99.57
3/8"	9.50	3.03	0.26	0.68	99.32	99.32
#4	4.75	5.06	0.43	1.12	98.88	98.88
#10	2.00	26.14	2.23	3.35	96.65	96.65
#20	0.85	62.47	5.34	8.68	91.32	91.32
#40	0.425	182.10	15.55	24.24	75.76	75.76
#60	0.250	174.68	14.92	39.15	60.85	60.85
#140	0.106	332.91	28.43	67.59	32.41	32.41
#200	0.075	72.27	6.17	73.76	26.24	26.24
Pan	-	307.26	26.24	100.00	-	-

Tested By **BE** Date **10/11/05** Checked By **YKB** Date **10-17-05**

HYDROMETER ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-01	Sample No.	BULK-1
Lab ID	2005-329-01-01	Soil Color	GRAY AND BROWN

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)	
0	NA	NA	NA	NA	NA	NA	NA	NA	
2	15.5	16.0	24.1	6.04	10.0	66.2	0.01281	0.0335	17.4
5		15.0	24.1	6.04	9.0	59.6	0.01281	0.0213	15.6
15		14.0	24.1	6.04	8.0	52.9	0.01281	0.0124	13.9
30		13.5	24.1	6.04	7.5	49.6	0.01281	0.0088	13.0
64		12.0	24.0	6.07	5.9	39.4	0.01282	0.0061	10.3
269		12.0	23.3	6.33	5.7	37.7	0.01293	0.0030	9.9
1440		10.5	22.7	6.54	4.0	26.3	0.01302	0.0013	6.9

Soil Specimen Data	Other Corrections	
Tare No.	2330	
Tare + Dry Material (gm)	121.07	
Weight of Tare (gm)	101.17	
Weight of Deflocculant (gm)	5.0	
Weight of Dry Material (gm)	14.9	
	a - Factor	0.99
	Percent Finer than # 200	26.24
	Specific Gravity	2.7 Assumed

Note: Hydrometer test is performed on - # 200 sieve material.

Tested By TO Date 10/12/05 Checked By *KB* Date 10-17-05



ATTERBERG LIMIT
ASTM D 4318-00 (SOP - S4)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-01	Sample No.	BULK-1
Lab ID	2005-329-01-01	Visual Description	GRAY AND BROWN SILT (Minus No. 40 sieve material, Airdried)

**NON - PLASTIC
MATERIAL**

Tested By **BS** Date **10/14/05** Checked By **YLB** Date **10-17-05**



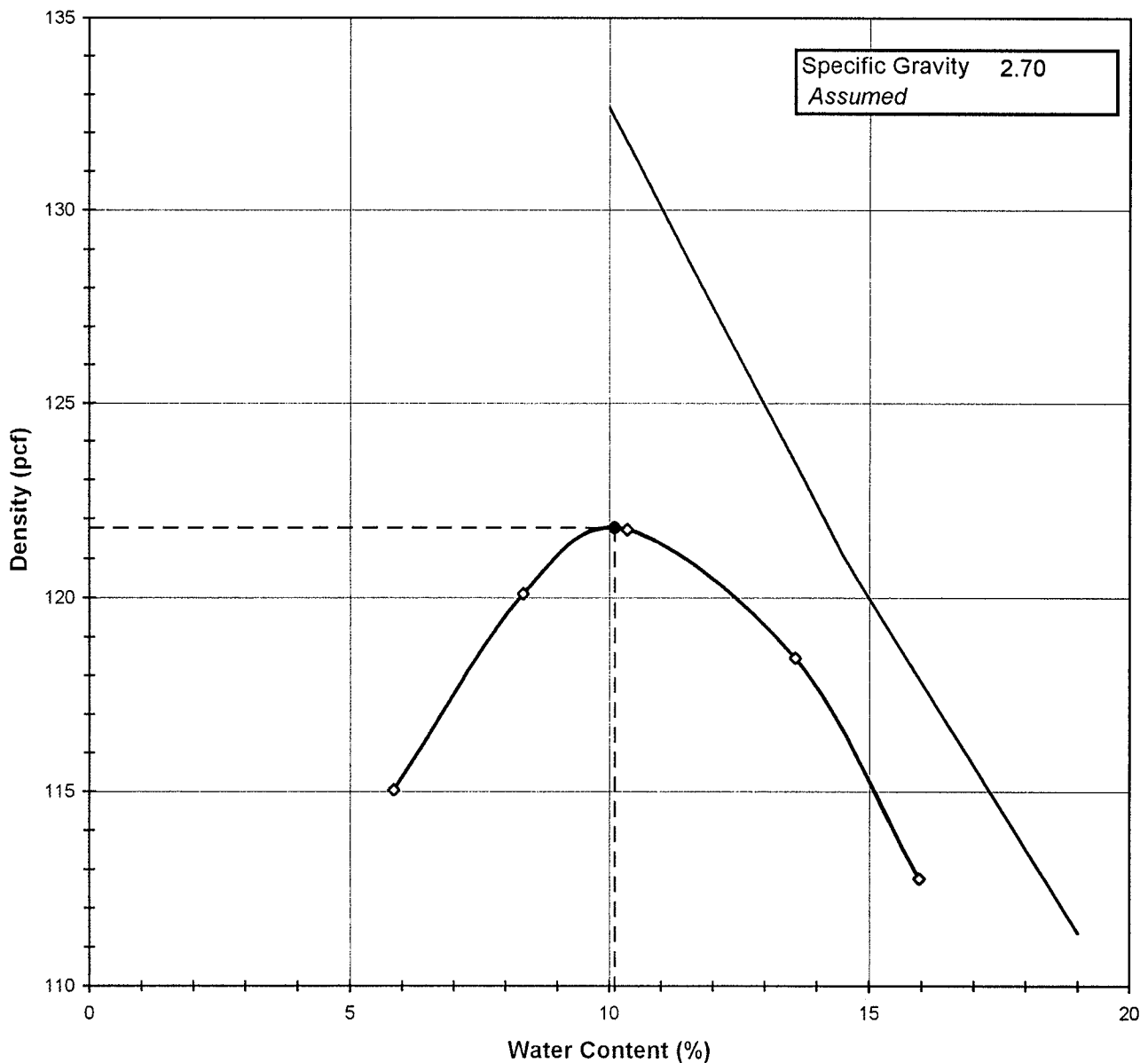
MOISTURE DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-01	Sample No.	BULK-1
Lab ID	2005-329-01-01	Test Method	STANDARD

Visual Description GRAY AND BROWN CLAY WITH ROCK FRAGMENTS

Optimum Water Content 10.1
Maximum Dry Density 121.8



Tested By PC Date 10/7/05 Checked By *YKB* Date 10-10-05

MOISTURE - DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-01	Sample No.	BULK-1
Lab ID	2005-329-01-01		

Visual Description GRAY AND BROWN CLAY WITH ROCK FRAGMENTS

Total Weight of the Sample (gm)	NA
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	NA
Percent Retained on #4	NA
Oversize Material	Not included
Procedure Used	C

TestType	STANDARD	
Rammer Weight (lbs)	5.5	
Rammer Drop (in)	12	
Rammer Type	MECHANICAL	
Machine ID	G	774
Mold ID	G	986
Mold diameter	6	
Weight of the Mold	6567	
Volume of the Mold(cc)	2112	

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	10688	10971	11113	11121	10993
Wt. of Mold (gm)	6567	6567	6567	6567	6567
Wt. of WS	4121	4404	4546	4554	4426
Mold Volume (cc)	2112	2112	2112	2112	2112

Moisture Content / Density

Tare Number	878	575	563	613	538
Wt. of Tare & WS (gm)	497.90	487.40	490.90	491.80	496.70
Wt. of Tare & DS (gm)	476.52	456.26	452.62	443.12	439.63
Wt. of Tare (gm)	110.45	82.85	82.52	84.78	82.18
Wt. of Water (gm)	21.38	31.14	38.28	48.68	57.07
Wt. of DS (gm)	366.07	373.41	370.10	358.34	357.45

Wet Density (gm/cc)	1.95	2.09	2.15	2.16	2.10
Wet Density (pcf)	121.8	130.1	134.3	134.6	130.8
Moisture Content (%)	5.8	8.3	10.3	13.6	16.0
Dry Density (pcf)	115.0	120.1	121.7	118.5	112.8

Zero Air Voids

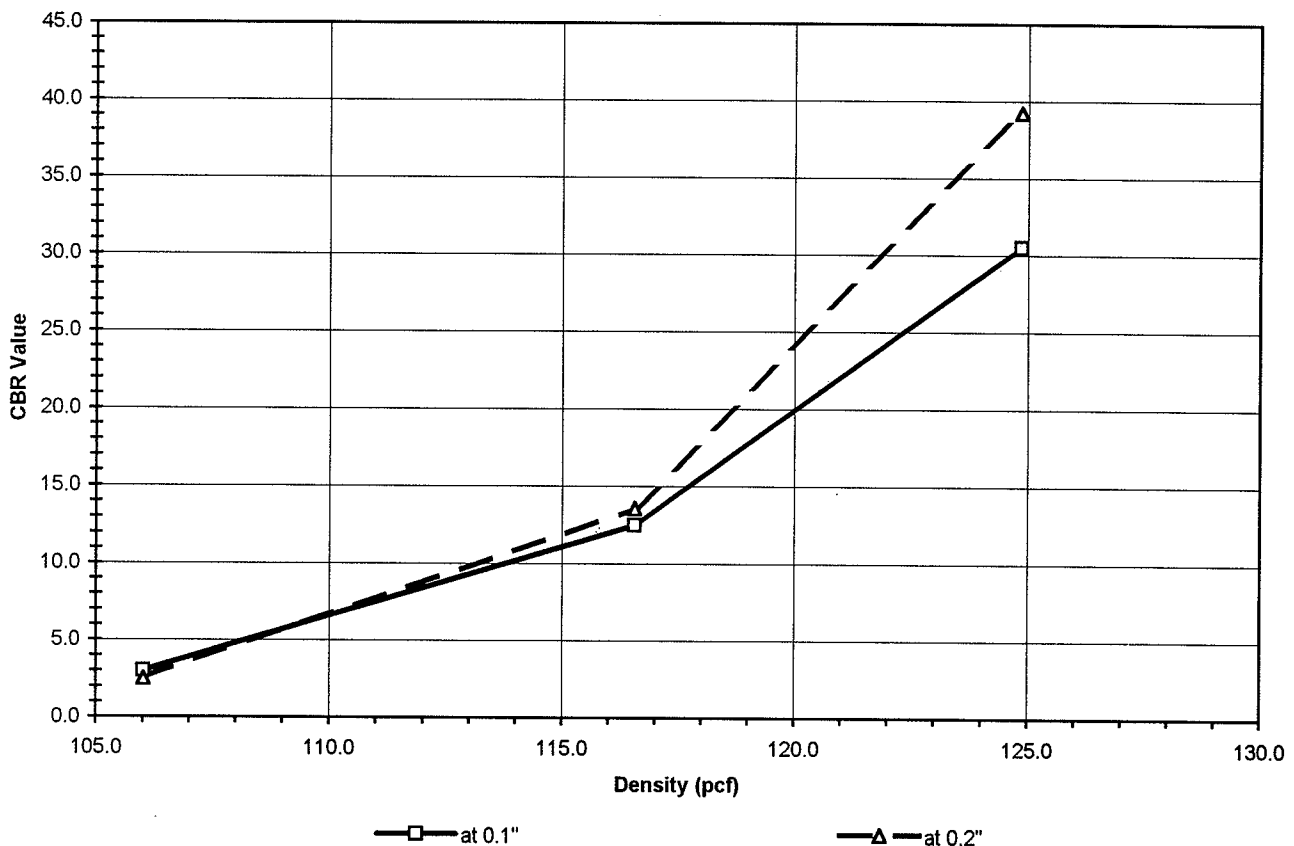
Moisture Content (%)	10.0	14.5	19.0
Dry Unit Weight (pcf)	132.7	121.1	111.4

Tested By PC Date 10/7/05 Checked By *YKB* Date 10-10-05

3 POINTS CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	NA
Project No.	2005-329-01	Sample No.	BULK-1
Lab ID	2005-329-01-01	Visual Description	GRAY AND BROWN CLAY WITH ROCK FRAGMENTS

Point No.	1	2	3
Blows per Layer	10	25	65
Dry Density (pcf)	106.0	116.6	124.9
Dry Density (g/cc)	1.70	1.87	2.00
Corrected Penetration Stress @ 0.1"	30.33	125.00	305.00
Corrected Penetration Stress @ 0.2"	38.00	203.00	588.00
Corrected CBR Values @ 0.1"	3.03	12.50	30.50
Corrected CBR Values @ 0.2"	2.53	13.53	39.20

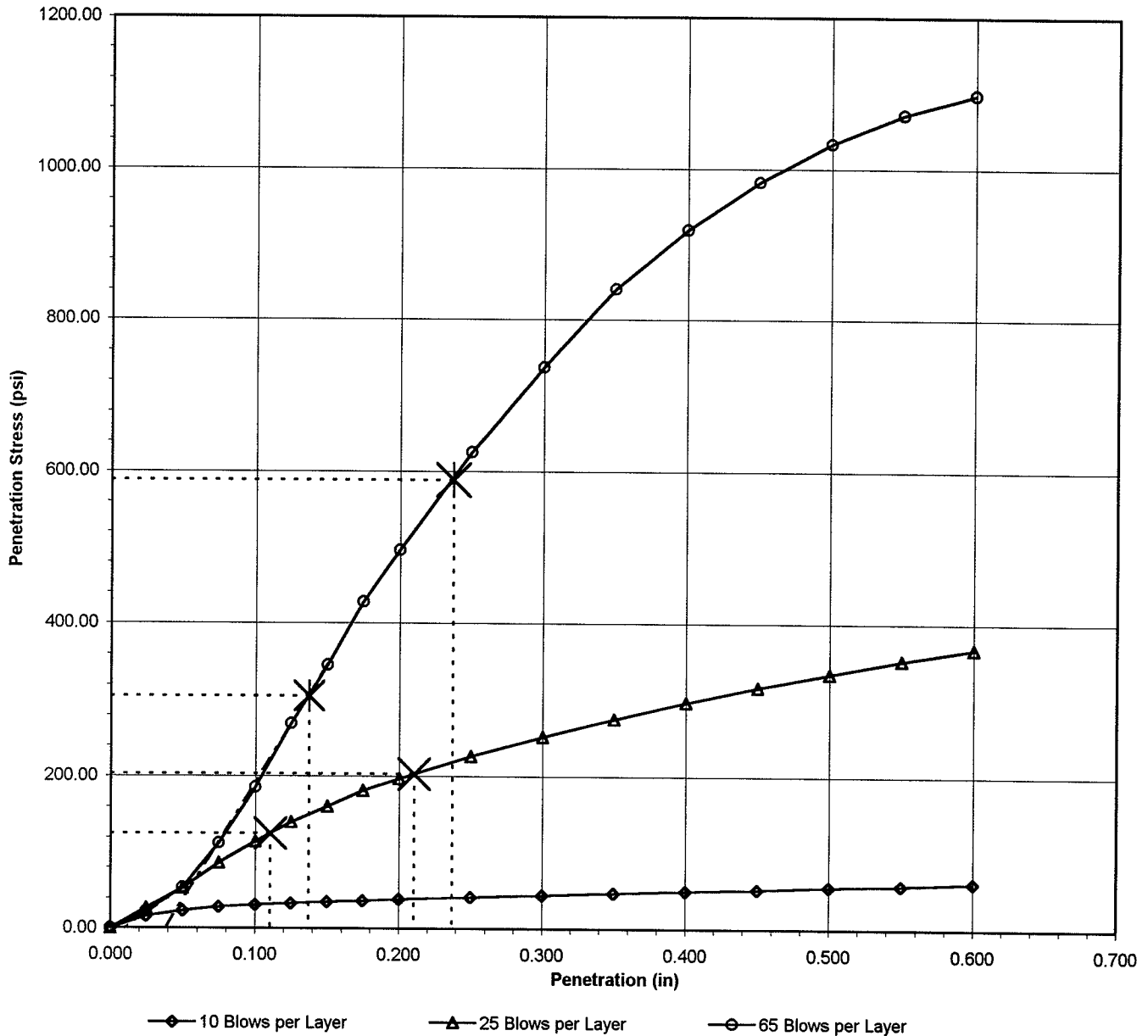


Tested By **JP** Date **10/20/05** Approved By **DB** Date **10/26/05**

3 POINTS CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	NA
Project No.	2005-329-01	Sample No.	BULK-1
Lab ID	2005-329-01-01	Visual Description	GRAY AND BROWN CLAY WITH ROCK FRAGMENTS

Penetration Stress vs. Penetration



Tested By JP Date 10/20/05 Approved By DB Date 10/26/05

3 POINT CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	NA
Project No.	2005-329-01	Sample No.	BULK-1
Lab ID	2005-329-01-01	Visual Description	GRAY AND BROWN CLAY WITH ROCK FRAGMENTS

Test Type	STANDARD			
Molding Method	C	Density	Before	After
Mold ID	105	Measurement	Soaking	Soaking
Wt. of Mold (gm.)	7256	Wt. Mold & WS (gm.)	11207	11495
Mold Volume (cc)	2124	Wt. WS (gm.)	3951	4239
Surcharge (lbs.)	15	Sample Volume (cc)	2124	2125
Piston Area (in ²)	3	Wet Density (gm./cc)	1.86	1.99
Sample Height	4.58	Wet Density (pcf)	116.1	124.5
Sample Conditions	Soaked			
Blows per Layer	10	Dry Density (pcf)	106.0	108.3
		Dry Density (gm./cc)	1.70	1.73

Water Contents	As Rec'd	Beginning Compaction	After Compaction	Before Soaking	After Soaking	Top 1" After Soak
Tare No.	NA	886	888	888	698	575
Wt. of T+WS (gm.)	NA	420.1	487.5	487.5	762	474.1
Wt. of T+DS (gm.)	NA	393.67	454.8	454.8	675.9	420.35
Wt of Tare (gm.)	NA	109.84	110.48	110.48	100.71	82.84
Moisture Content(%)	NA	9.3	9.5	9.5	15.0	15.9

Piston Displacement (in.)	Load (lbs.)	Penetration Stress (psi.)	Swell Measurement		
			Elapsed Time (hrs)	Dial Gauge (Div)	Percent Swell
0	0	0.0			
0.025	47	15.7			
0.050	69	23.0			
0.075	83	27.7			
0.100	91	30.3	0.00	306	0.00%
0.125	98	32.7	0.08	307	0.02%
0.150	104	34.7	0.25	308	0.04%
0.175	109	36.3	1.08	308	0.04%
0.200	114	38.0	1.67	308	0.04%
0.250	124	41.3	26.92	308	0.04%
0.300	132	44.0	46.42	308	0.04%
0.350	141	47.0	71.42	308	0.04%
0.400	149	49.7	89.92	309	0.07%
0.450	156	52.0	96.42	309	0.07%
0.500	165	55.0			
0.550	173	57.7			
0.600	182	60.7			

1Division = 0.001 in.

Tested By *JP* Date *10/20/05* Checked By *KB* Date *10-25-05*

3 POINT CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	NA
Project No.	2005-329-01	Sample No.	BULK-1
Lab ID	2005-329-01-01	Visual Description	GRAY AND BROWN CLAY WITH ROCK FRAGMENTS

Test Type	STANDARD			
Molding Method	C	Density	Before	After
Mold ID	1054	Measurement	Soaking	Soaking
Wt. of Mold (gm.)	7293	Wt. Mold & WS (gm.)	11627	11795
Mold Volume (cc)	2124	Wt. WS (gm.)	4334	4502
Surcharge (lbs.)	15	Sample Volume (cc)	2124	2125
Piston Area (in ²)	3	Wet Density (gm./cc)	2.04	2.12
Sample Height	4.58	Wet Density (pcf)	127.3	132.2
Sample Conditions	Soaked			
Blows per Layer	25	Dry Density (pcf)	116.6	117.9
		Dry Density (gm./cc)	1.87	1.89

Water Contents	As Rec'd	Beginning Compaction	After Compaction	Before Soaking	After Soaking	Top 1" After Soak
Tare No.	NA	916	900	900	1632	1128
Wt. of T+WS (gm.)	NA	362	419	419	1036.6	399.86
Wt. of T+DS (gm.)	NA	340.12	392.88	392.88	934.7	363.37
Wt of Tare (gm.)	NA	109.93	110.07	110.07	94.01	84.33
Moisture Content(%)	NA	9.5	9.2	9.2	12.1	13.1

Piston Displacement (in.)	Load (lbs.)	Penetration Stress (psi.)	Swell Measurement		
			Elapsed Time (hrs)	Dial Gauge (Div)	Percent Swell
0	0	0.0			
0.025	78	26.0			
0.050	158	52.7			
0.075	258	86.0			
0.100	343	114.3	0.00	325	0.00%
0.125	419	139.7	0.08	326	0.02%
0.150	481	160.3	0.25	326	0.02%
0.175	543	181.0	1.08	327	0.04%
0.200	590	196.7	1.67	327	0.04%
0.250	679	226.3	26.92	327	0.04%
0.300	755	251.7	46.42	328	0.07%
0.350	824	274.7	71.42	328	0.07%
0.400	890	296.7	89.92	328	0.07%
0.450	950	316.7	96.42	328	0.07%
0.500	1004	334.7			
0.550	1056	352.0			
0.600	1102	367.3			

1Division = 0.001 in.

Tested By JP Date 10/20/05 Checked By YKB Date 10-25-05

3 POINT CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-113
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	NA
Project No.	2005-329-01	Sample No.	BULK-1
Lab ID	2005-329-01-01	Visual Description	GRAY AND BROWN CLAY WITH ROCK FRAGMENTS

Test Type STANDARD

Molding Method C
Mold ID 13
Wt. of Mold (gm.) 7250
Mold Volume (cc) 2124
Surcharge (lbs.) 15
Piston Area (in²) 3
Sample Height 4.58
Sample Conditions Soaked
Blows per Layer 65

Density Measurement	Before Soaking	After Soaking
Wt. Mold & WS (gm.)	11896	11971
Wt. WS (gm.)	4646	4721
Sample Volume (cc)	2124	2125
Wet Density (gm./cc)	2.19	2.22
Wet Density (pcf)	136.5	138.6
Dry Density (pcf)	124.9	126.1
Dry Density (gm./cc)	2.00	2.02

Water Contents	As Rec'd	Beginning Compaction	After Compaction	Before Soaking	After Soaking	Top 1" After Soak
Tare No.	NA	891	676	676	1619	554
Wt. of T+WS (gm.)	NA	480.3	326.67	326.67	680.6	340.73
Wt. of T+DS (gm.)	NA	448.72	305.16	305.16	627.6	313.55
Wt of Tare (gm.)	NA	110.5	74.24	74.24	95.41	81.38
Moisture Content(%)	NA	9.3	9.3	9.3	10.0	11.7

Piston Displacement (in.)	Load (lbs.)	Penetration Stress (psi.)	Swell Measurement		
			Elapsed Time (hrs)	Dial Gauge (Div)	Percent Swell
0	0	0.0			
0.025	66	22.0			
0.050	159	53.0			
0.075	337	112.3			
0.100	554	184.7	0.00	338	0.00%
0.125	806	268.7	0.08	339	0.02%
0.150	1036	345.3	0.25	339	0.02%
0.175	1283	427.7	1.08	339	0.02%
0.200	1487	495.7	1.67	340	0.04%
0.250	1875	625.0	26.92	340	0.04%
0.300	2212	737.3	46.42	341	0.07%
0.350	2522	840.7	71.42	341	0.07%
0.400	2755	918.3	89.92	341	0.07%
0.450	2948	982.7	96.42	341	0.07%
0.500	3100	1033.3			
0.550	3215	1071.7			
0.600	3293	1097.7			

1Division = 0.001 in.

Tested By *JP* Date *10/20/05* Checked By *YKB* Date *10-25-05*

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-200
Client Reference	GE Processing Facility 20430.011	Depth (ft)	35.8-36.0
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-15	Visual Description	GRAY CLAY (Minus No.4 sieve material, airdried)

Replicate Number	1	2
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	721.77	709.55
Temperature, T (°Celsius)	24.1	23.9
Weight of Pycnometer + Water (gm)	680.73	670.23
Tare Number	665	708
Weight of Tare + Dry Soil (gm)	163.26	161.35
Weight of Tare (gm)	98.29	99.1
Weight of Dry Soil (gm)	64.97	62.25
Specific Gravity of Soil @ T	2.715	2.715
Specific Gravity of Water @ T	0.9973	0.9974
Conversion Factor for Temperature T	0.9991	0.9991
Specific Gravity @ 20° Celsius	2.717	2.717

Average Specific Gravity @ 20° Celsius 2.72

Tested By TO Date 10/31/05 Checked By *YB* Date 11-1-05

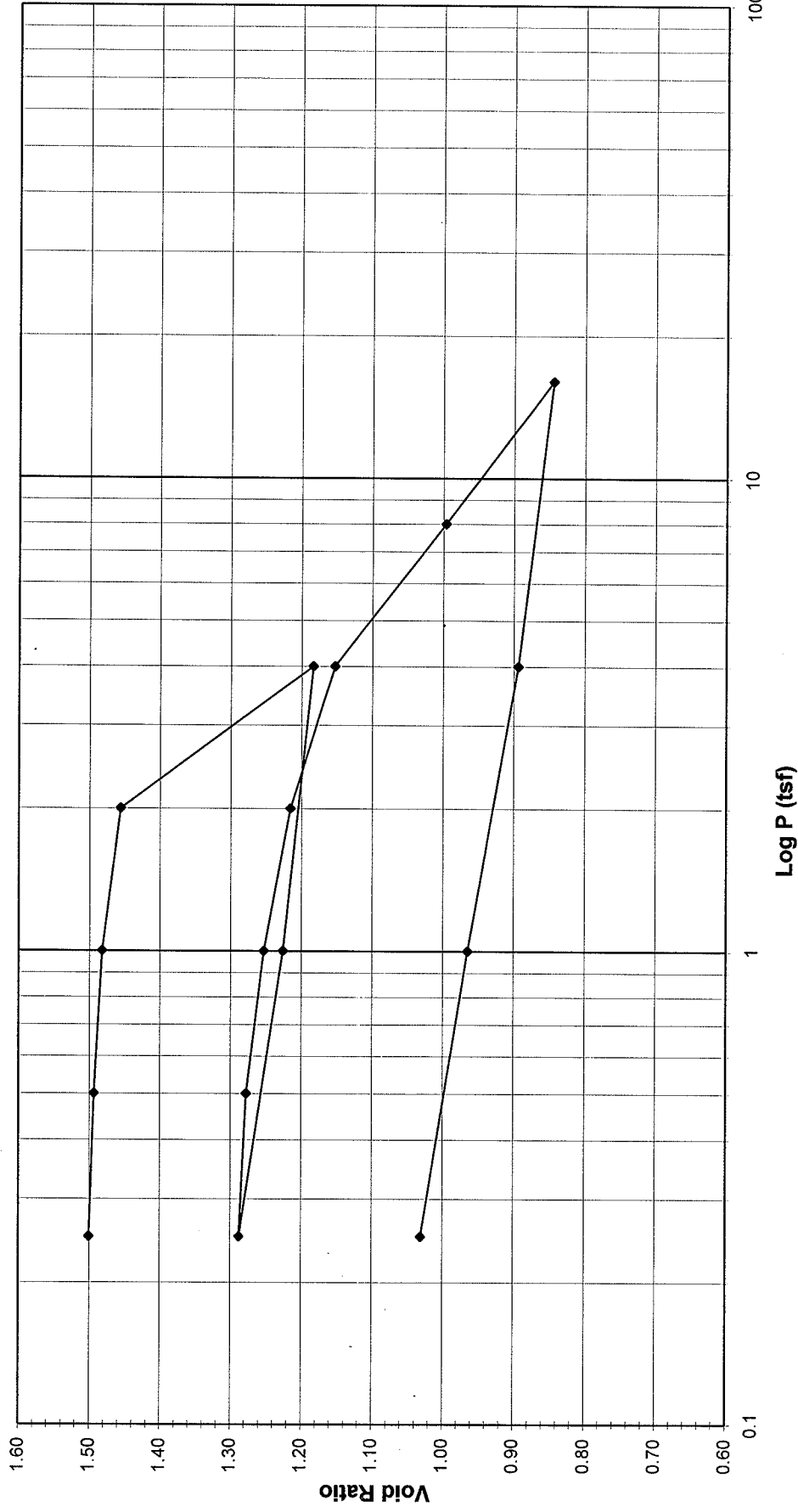


ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-200
Client Reference	GE PROCESSING FACILITY 20430.011	Depth (ft)	35.6-35.8
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-15	Visual Description	SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED





ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-200
Client Reference	GE PROCESSING FACILITY 20430.011	Depth (ft)	35.6-35.8
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-15	Visual Description	SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED

Consolidometer No. 1

1 Division = 0.0001 (in)

Sample Properties

	Initial	Final
<i>Water Content</i>		
Tare Number	40	1399
Wt. Tare & WS (gm)	172.96	128.26
Wt. Tare & DS (gm)	147.68	102.74
Wt. Water (gm)	25.28	25.52
Wt. Tare (gm)	101.54	38.13
Wt. DS (gm)	46.14	64.61
Water Content (%)	54.79	39.50

Sample Parameters

Sample Diameter (in)	2.5	2.5
Sample Height (in)	0.75	0.608
Sample Volume (cc)	60.33	48.92
Wt. Wet Sample + Ring (gm)	177.78	167.76
Wt. of Ring (gm)	76.34	76.34
Wt. of Wet Sample (gm)	101.44	91.42
Wet Density (pcf)	104.92	116.60
Wet Density (g/cc)	1.68	1.87
Water Content (%)	54.79	39.50
Wt. of Dry Sample (gm)	65.53	65.53
Dry Density (pcf)	67.78	83.59
Dry Density (g/cc)	1.09	1.34
Void Ratio	1.5040	1.0305
Saturation (%)	99.09	104.25
Specific Gravity	2.72	Measured

Test Data Summary

Applied Pressure (tsf)	Final Dial Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	19.050	60.330	1.08626	1.50400
0.25	19.6	8.9	10.7	19.023	60.243	1.08782	1.50041
0.5	48.0	15.8	32.2	18.968	60.071	1.09094	1.49326
1	92.5	26.9	65.6	18.883	59.802	1.09585	1.48209
2	184.5	39.4	145.1	18.681	59.163	1.10769	1.45556
4	1014.2	54.3	959.9	16.612	52.609	1.24569	1.18353
1	868.8	34.8	834.0	16.932	53.621	1.22216	1.22556
0.25	666.7	17.9	648.8	17.402	55.111	1.18914	1.28738
0.5	700.7	21.8	678.9	17.326	54.869	1.19437	1.27735
1	782.5	29.5	753.0	17.137	54.273	1.20750	1.25259
2	906.3	41.8	864.5	16.854	53.376	1.22778	1.21539
4	1105.9	54.4	1051.6	16.379	51.871	1.26340	1.15292
8	1590.9	69.8	1521.1	15.186	48.094	1.36262	0.99615
16	2063.9	88.7	1975.2	14.033	44.442	1.47461	0.84456
4	1893.5	65.1	1828.5	14.406	45.622	1.43646	0.89354
1	1656.4	40.1	1616.3	14.945	47.328	1.38467	0.96437
0.25	1441.7	23.5	1418.2	15.448	48.922	1.33956	1.03052

Tested By TM Date 10/25/05 Input Checked By GU Date 11/2/05



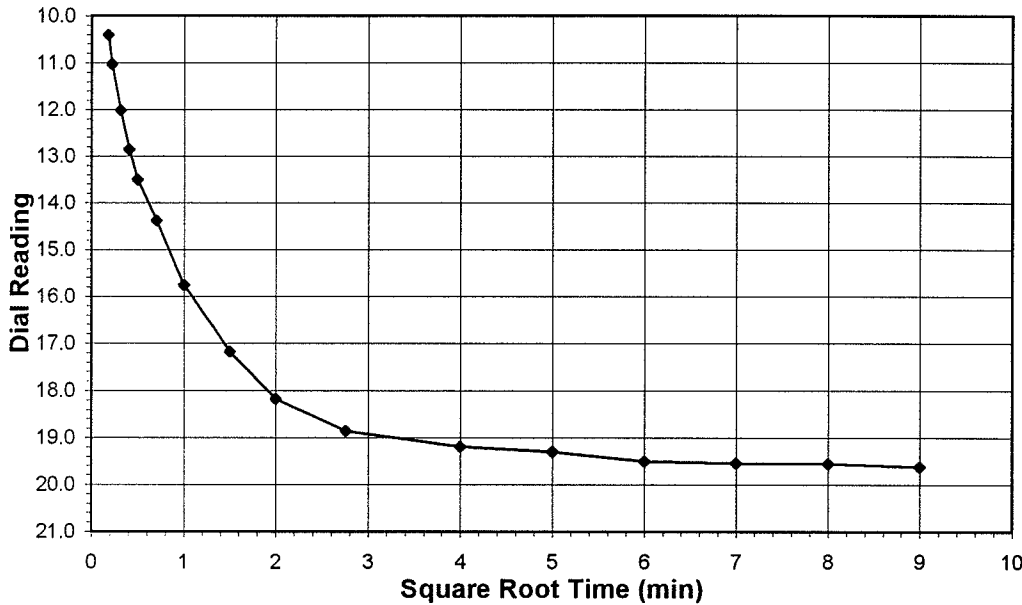
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE
 Client Project: GE PROCESSING FACILITY 20430.011
 Project No.: 2005-329-01
 Lab ID: 2005-329-01-15

Boring No.: GT-200
 Depth (ft): 35.6-35.8
 Sample No.: ST-1
 Visual Description: SOFT GRAY CLAY

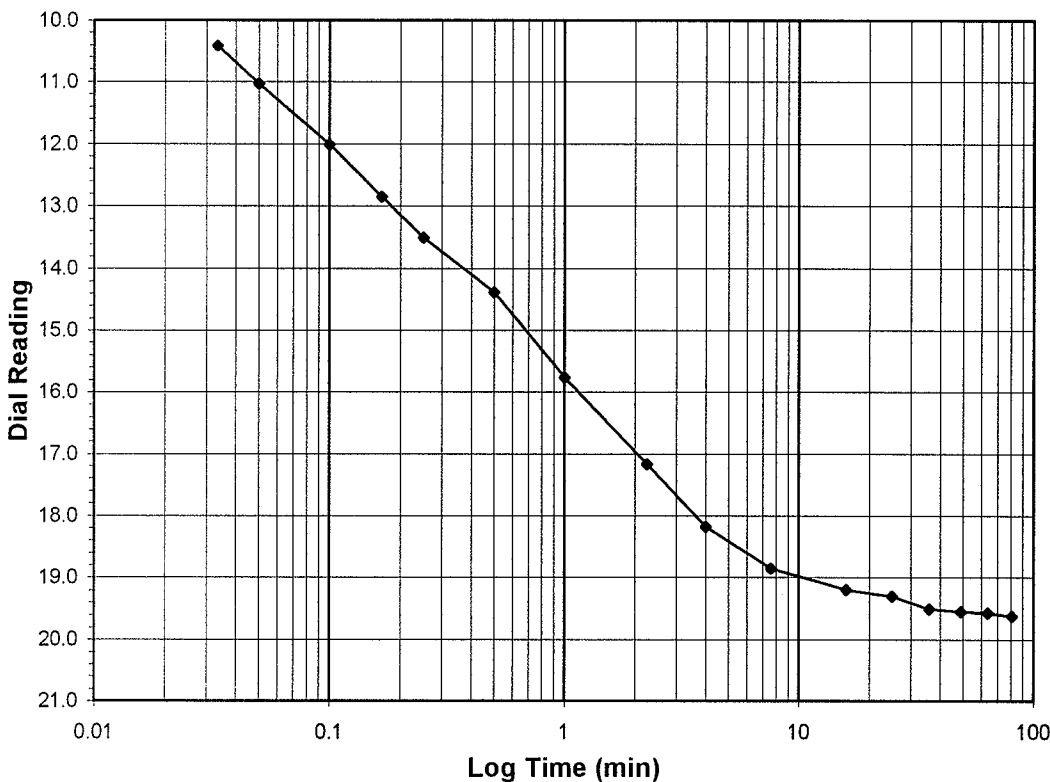
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0-0.25
 Final Reading (div) 19.6
 Consolidometer No. 1
 1 Division (in) 0.0001

Start Date 10/25/05
 Start Time 13:55:28

Elapsed Time (min)	Dial Reading (div)
Initial	0.0
0.03	10.4
0.05	11.0
0.10	12.0
0.17	12.9
0.25	13.5
0.50	14.4
1.00	15.8
2.25	17.2
4.00	18.2
7.62	18.9
16.00	19.2
25.00	19.3
36.00	19.5
49.00	19.5
64.00	19.6
81.00	19.6



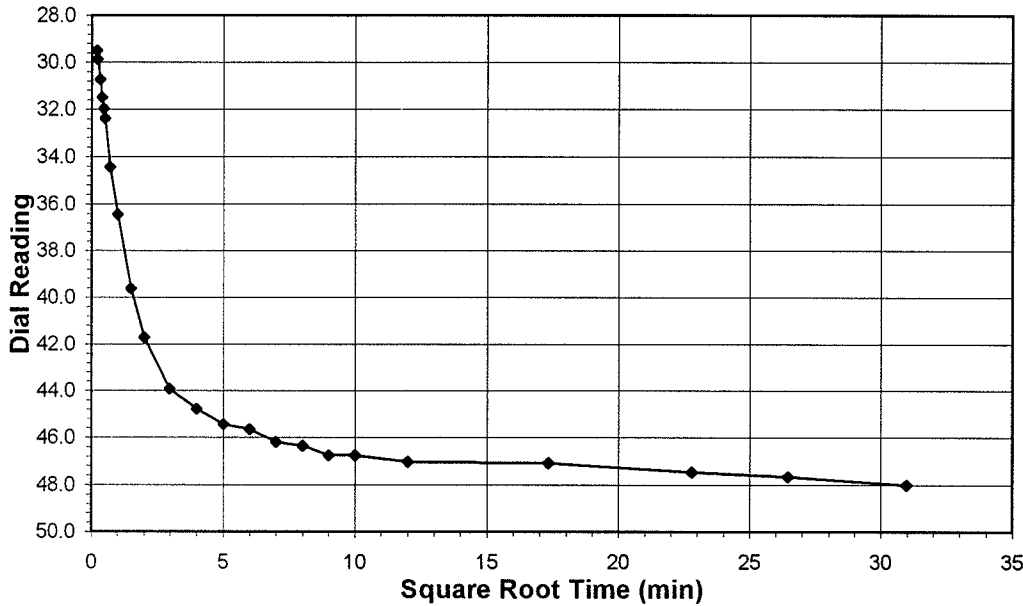
Tested By TM Date 10/25/05 Checked By GU Date 11/2/05



ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-96 (SOP-S24A)

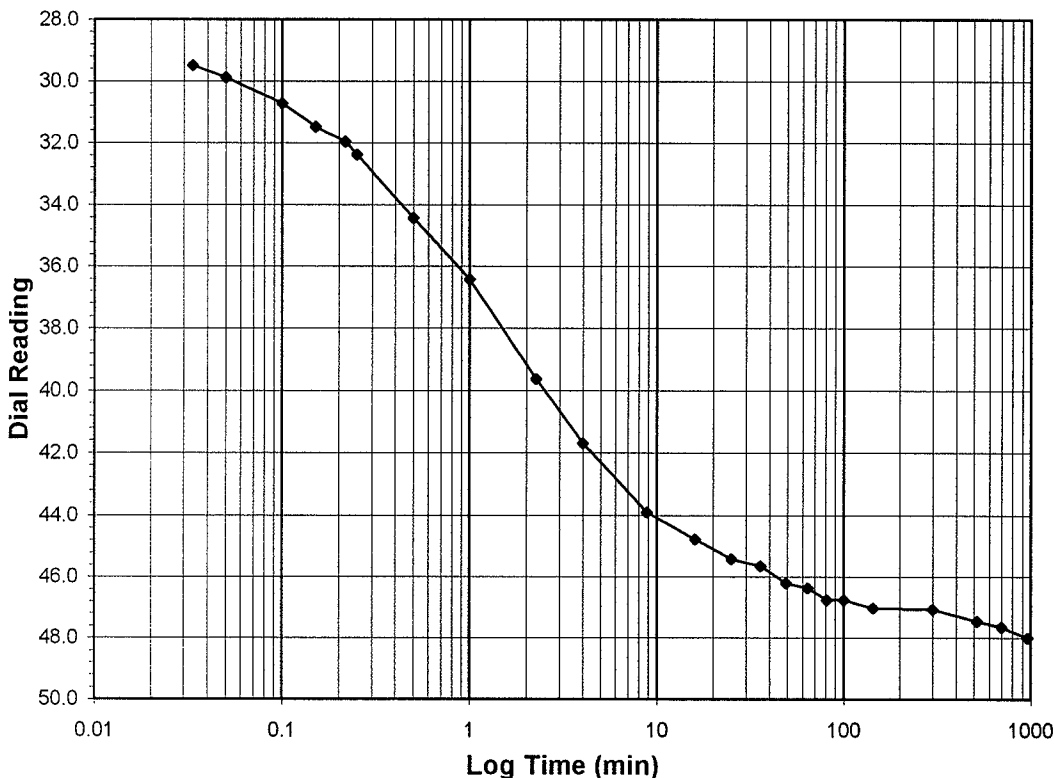
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-200
Client Project	GE PROCESSING FACILITY 20430.011	Depth (ft)	35.6-35.8
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-15	Visual Description	SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	48.0
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	10/25/05
Start Time	15:25:01

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	19.6
0.03	29.5
0.05	29.9
0.10	30.7
0.15	31.5
0.22	32.0
0.25	32.4
0.50	34.4
1.00	36.4
2.25	39.6
4.00	41.7
8.83	43.9
16.00	44.8
25.00	45.4
36.00	45.6
49.00	46.2
64.00	46.4
81.00	46.8
100.00	46.8
144.00	47.0
300.00	47.1
520.00	47.5
700.00	47.7
960.00	48.0



Tested By *TM* Date *10/25/05* Checked By *GU* Date *11/2/05*

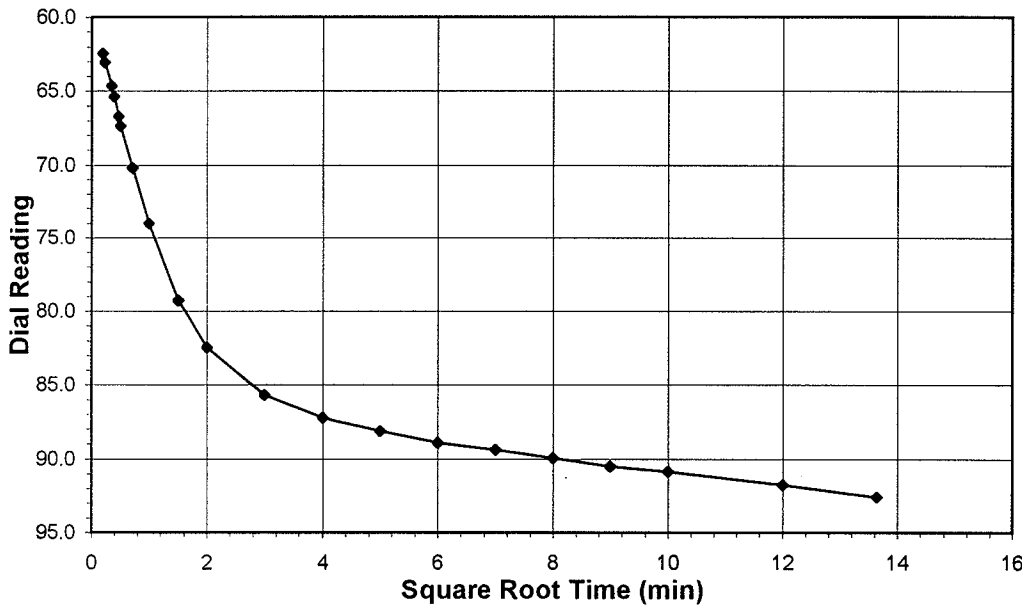
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-15**

Boring No. **GT-200**
 Depth (ft) **35.6-35.8**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

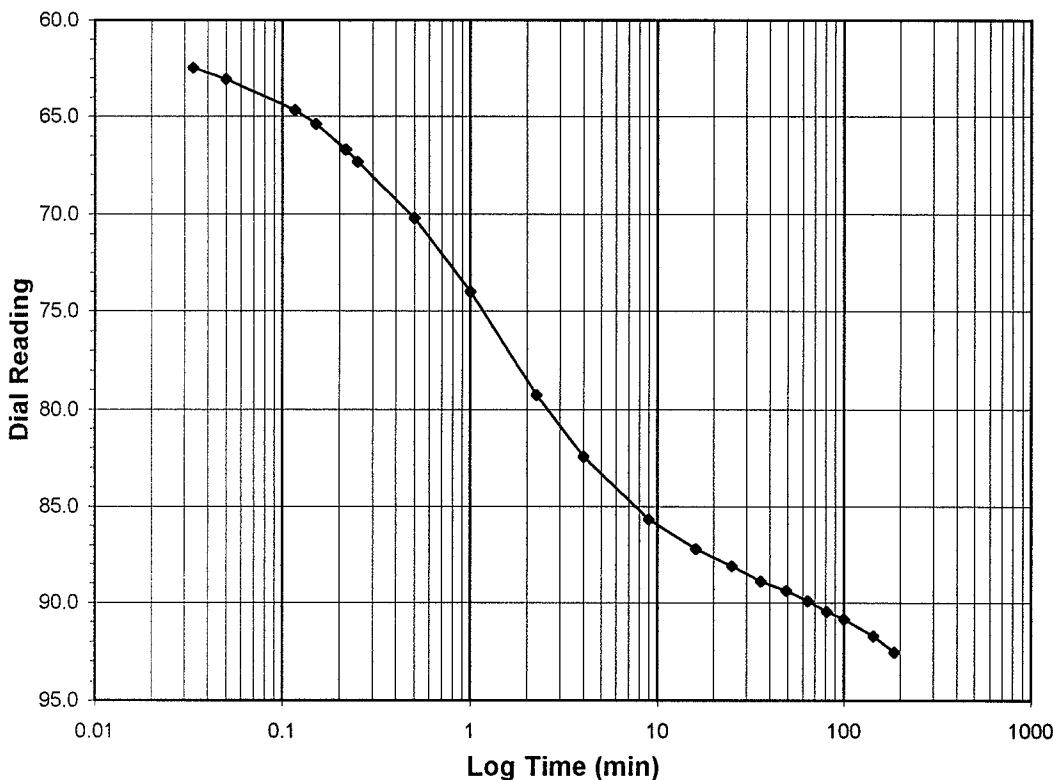
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) **0.5-1.0**
 Final Reading (div) **92.5**
 Consolidometer No. **1**
 1 Division (in) **0.0001**

Start Date **10/26/05**
 Start Time **7:48:04**

Elapsed Time (min)	Dial Reading (div)
Initial	48.0
0.03	62.5
0.05	63.0
0.12	64.7
0.15	65.4
0.22	66.7
0.25	67.3
0.50	70.2
1.00	74.0
2.25	79.3
4.00	82.4
9.02	85.7
16.00	87.2
25.00	88.1
36.00	88.9
49.00	89.4
64.00	89.9
81.00	90.5
100.00	90.9
144.00	91.7
186.12	92.5



Tested By **TM** Date **10/26/05** Checked By **GU** Date **11/2/05**



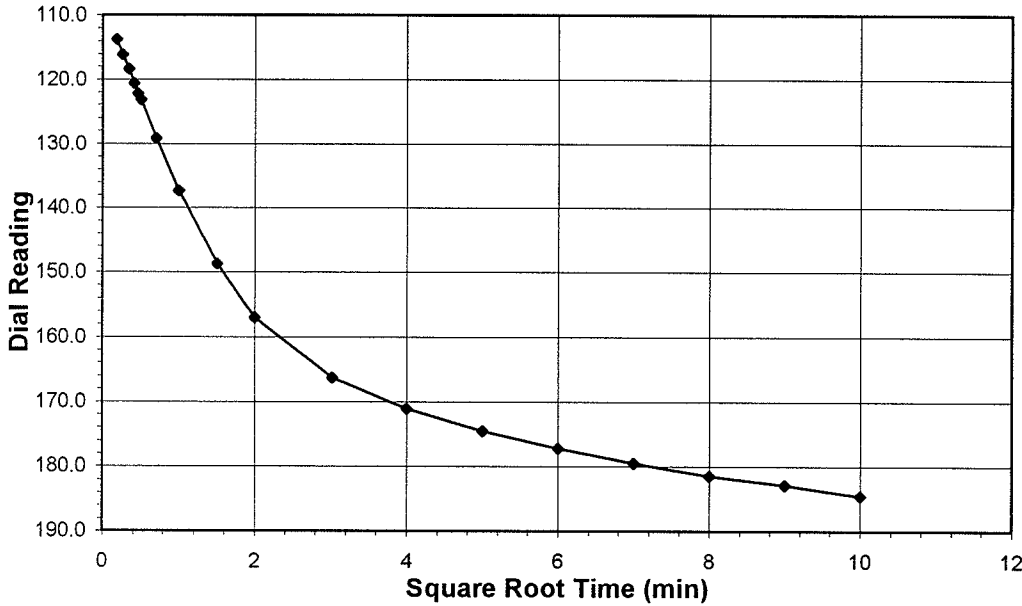
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE
 Client Project: GE PROCESSING FACILITY 20430.011
 Project No.: 2005-329-01
 Lab ID: 2005-329-01-15

Boring No.: GT-200
 Depth (ft): 35.6-35.8
 Sample No.: ST-1
 Visual Description: SOFT GRAY CLAY

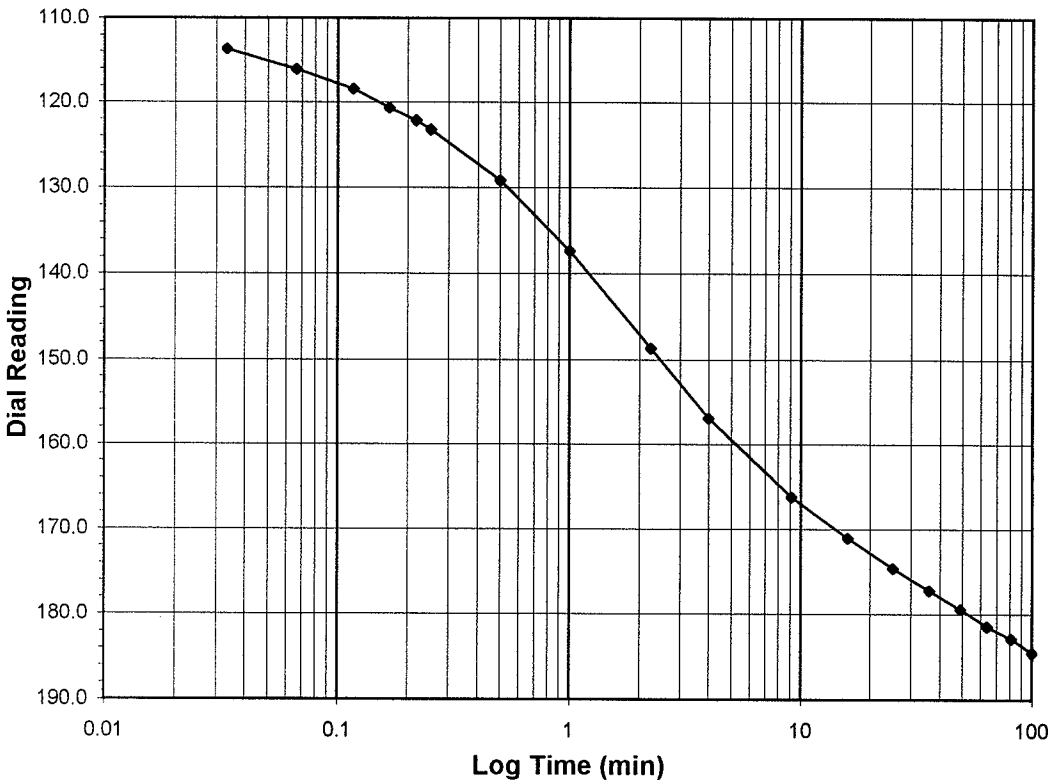
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 1.0-2.0
 Final Reading (div): 184.5
 Consolidometer No.: 1
 1 Division (in): 0.0001

Start Date: 10/26/05
 Start Time: 11:16:46

Elapsed Time (min)	Dial Reading (div)
Initial	92.5
0.03	113.7
0.07	116.1
0.12	118.4
0.17	120.7
0.22	122.2
0.25	123.2
0.50	129.2
1.00	137.3
2.25	148.7
4.00	157.0
9.15	166.3
16.00	171.1
25.00	174.6
36.00	177.3
49.00	179.4
64.00	181.4
81.00	182.8
100.00	184.5

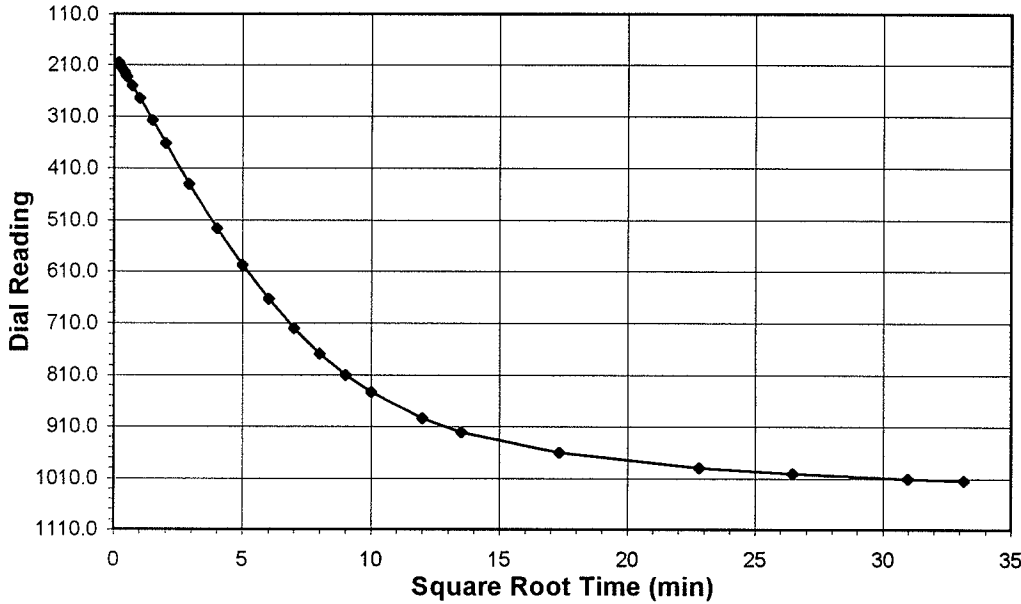


Tested By: TM Date: 10/26/05 Checked By: GU Date: 11/2/05

ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-96 (SOP-S24A)

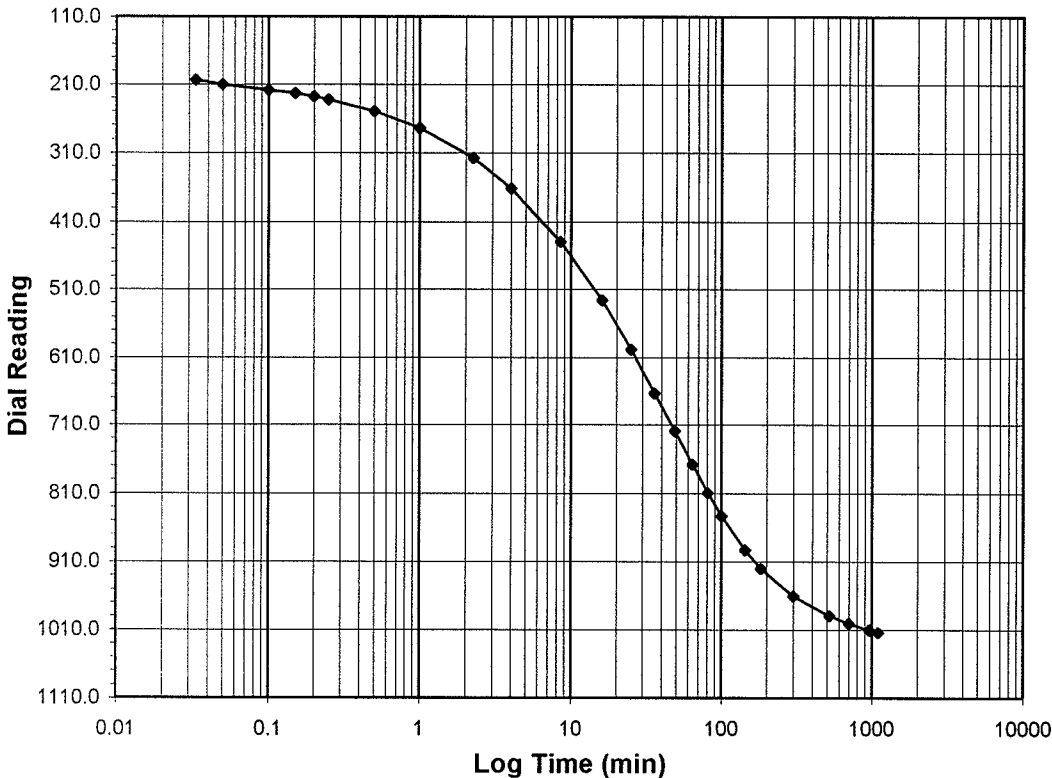
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-200
Client Project	GE PROCESSING FACILITY 20430.011	Depth (ft)	35.6-35.8
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-15	Visual Description	SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	(tsf)	2.0-4.0
Final Reading	(div)	1014.2
Consolidometer No.		1
1 Division	(in)	0.0001
Start Date		10/26/05
Start Time		12:59:58

Elapsed Time (min)	Dial Reading (div)
Initial	184.5
0.03	204.1
0.05	210.1
0.10	218.5
0.15	223.4
0.20	228.7
0.25	233.2
0.50	250.3
1.00	274.6
2.25	318.0
4.00	361.9
8.50	439.9
16.00	526.2
25.02	598.3
36.00	662.9
49.00	719.8
64.00	768.6
81.00	809.7
100.00	843.3
144.00	893.4
182.60	920.3
300.02	960.5
520.00	989.8
700.00	1001.1
960.00	1010.4
1100.00	1014.2



Tested By TM Date 10/26/05 Checked By GO Date 11/2/05



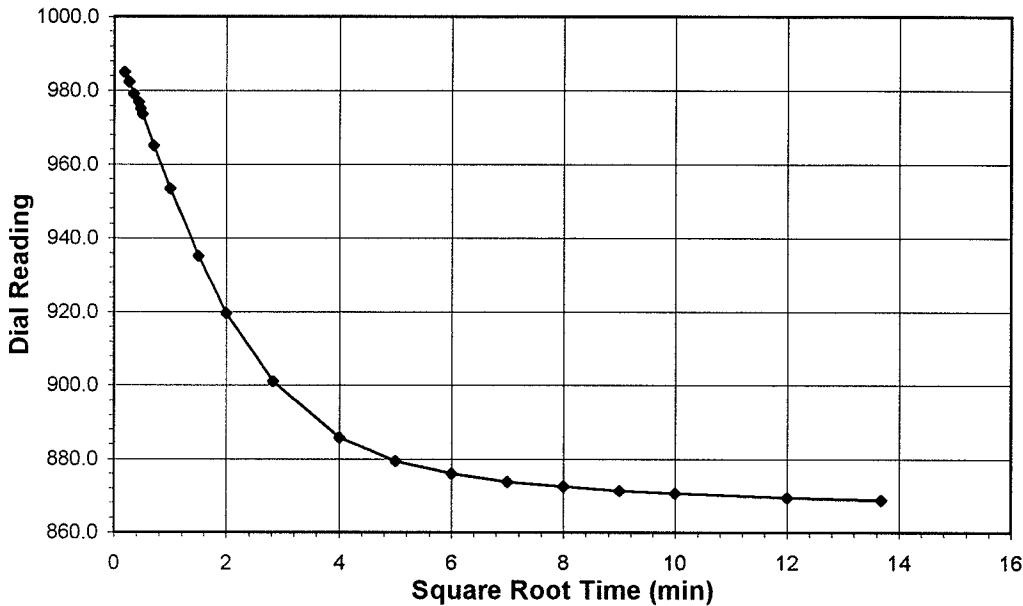
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE
 Client Project: GE PROCESSING FACILITY 20430.011
 Project No.: 2005-329-01
 Lab ID: 2005-329-01-15

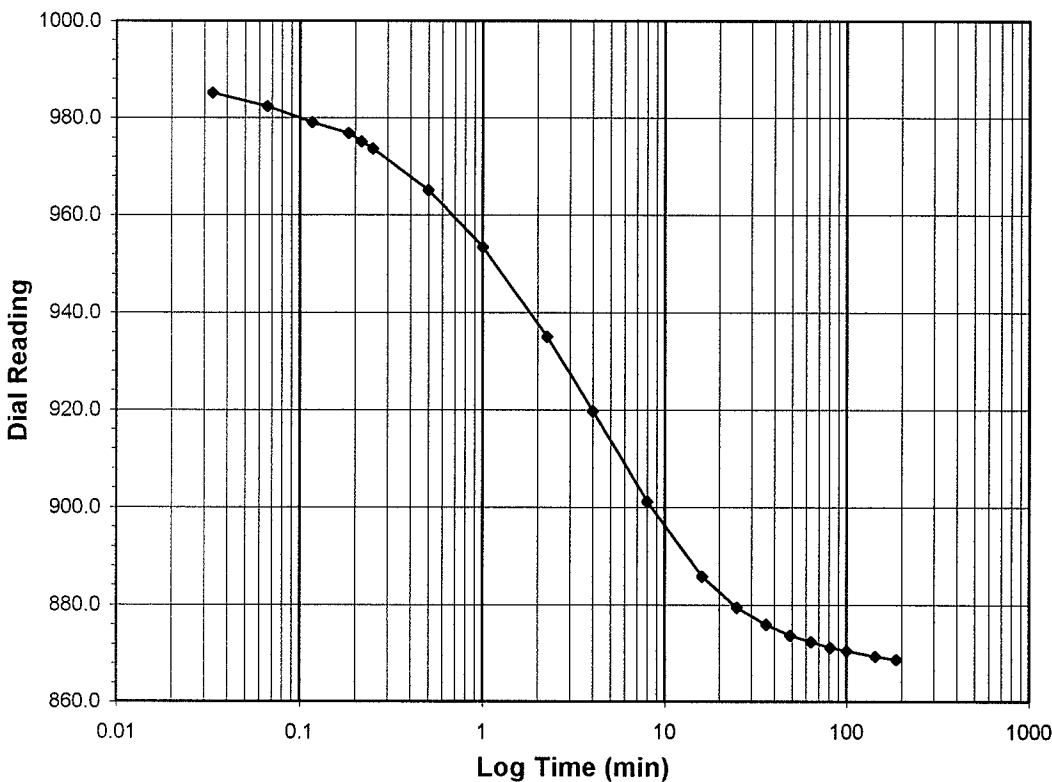
Boring No.: GT-200
 Depth (ft): 35.6-35.8
 Sample No.: ST-1
 Visual Description: SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 4.0-1.0
 Final Reading (div): 868.8
 Consolidometer No.: 1
 1 Division (in): 0.0001
 Start Date: 10/27/05
 Start Time: 7:27:52

Elapsed Time (min)	Dial Reading (div)
Initial	1014.2
0.03	985.1
0.07	982.4
0.12	979.1
0.18	976.9
0.22	975.2
0.25	973.7
0.50	965.1
1.00	953.4
2.25	935.1
4.00	919.7
8.01	901.2
16.00	885.8
25.00	879.4
36.00	876.0
49.00	873.8
64.00	872.5
81.00	871.3
100.02	870.7
144.00	869.5
187.25	868.8



Tested By: TM Date: 10/27/05 Checked By: GU Date: 11/2/05

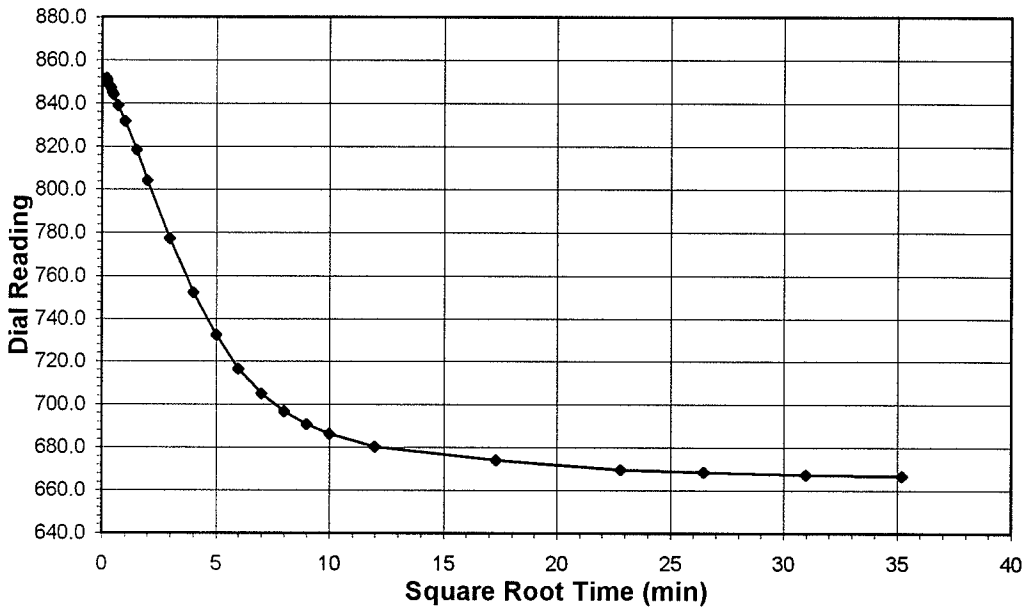
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-15**

Boring No. **GT-200**
 Depth (ft) **35.6-35.8**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

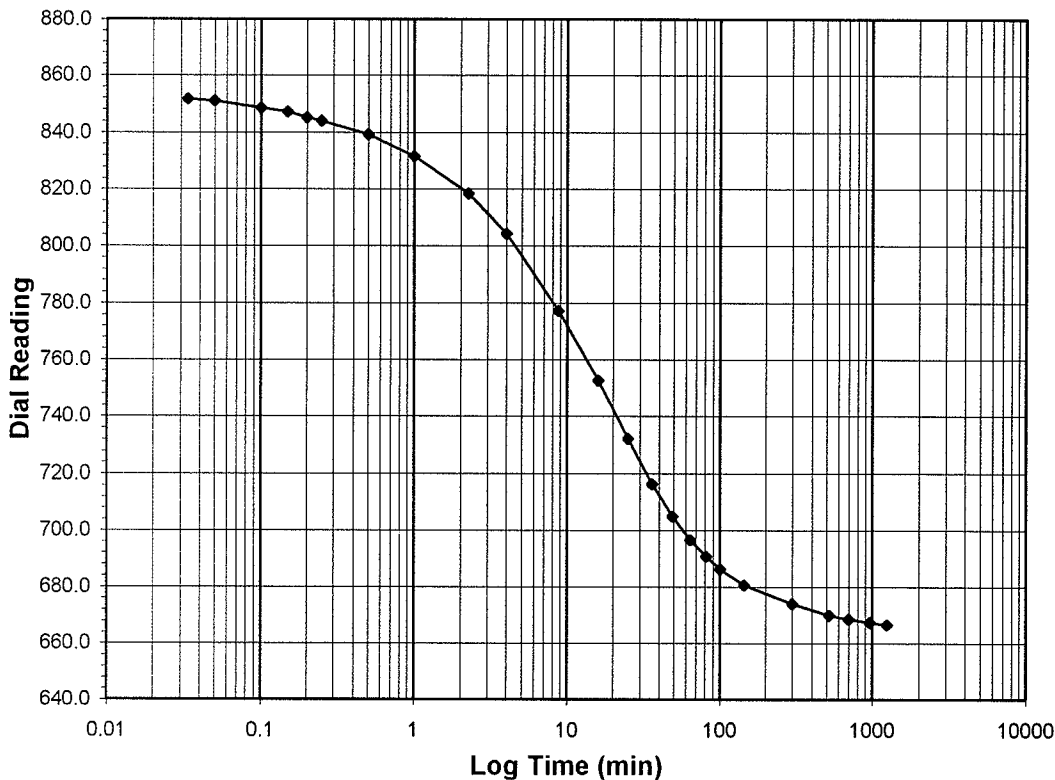
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) **1.0-0.25**
 Final Reading (div) **666.7**
 Consolidometer No. **1**
 1 Division (in) **0.0001**

Start Date **10/27/05**
 Start Time **10:40:29**

Elapsed Time (min)	Dial Reading (div)
Initial	868.8
0.03	851.7
0.05	850.9
0.10	848.4
0.15	847.1
0.20	845.1
0.25	844.0
0.50	839.1
1.00	831.5
2.25	818.4
4.00	804.3
8.78	777.3
16.00	752.4
25.00	732.2
36.00	716.5
49.00	704.9
64.00	696.6
81.00	690.8
100.00	686.2
144.00	680.5
300.00	674.1
520.00	669.9
700.00	668.6
960.00	667.4
1240.00	666.7



Tested By **TM** Date **10/27/05** Checked By **GU** Date **11/2/05**

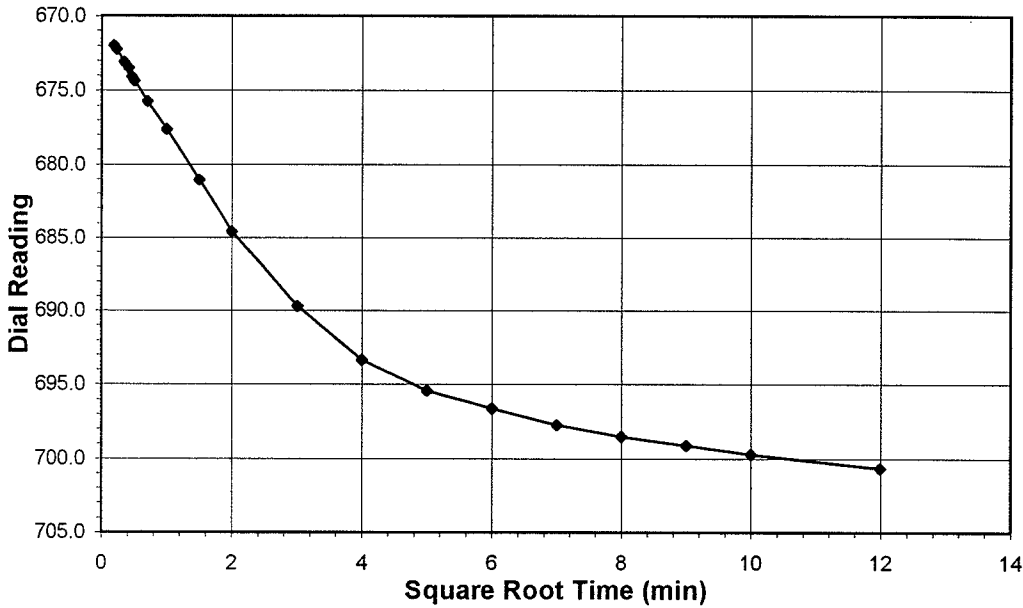
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-15**

Boring No. **GT-200**
 Depth (ft) **35.6-35.8**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

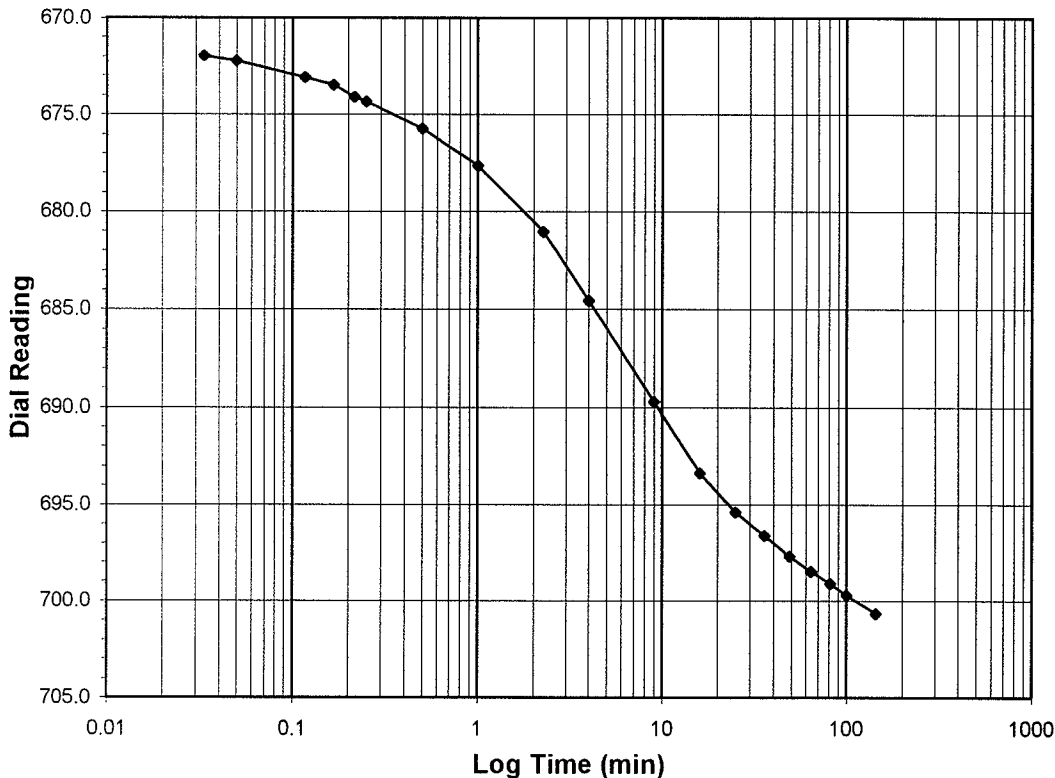
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.25-0.5
Final Reading (div) 700.7
 Consolidometer No. **1**
 1 Division (in) **0.0001**

Start Date 10/28/05
Start Time 7:24:41

Elapsed Time (min)	Dial Reading (div)
Initial	666.7
0.03	672.0
0.05	672.2
0.12	673.1
0.17	673.5
0.22	674.1
0.25	674.4
0.50	675.7
1.00	677.6
2.25	681.0
4.00	684.6
9.03	689.7
16.00	693.4
25.00	695.4
36.00	696.6
49.00	697.7
64.00	698.5
81.00	699.1
100.00	699.7
143.73	700.7



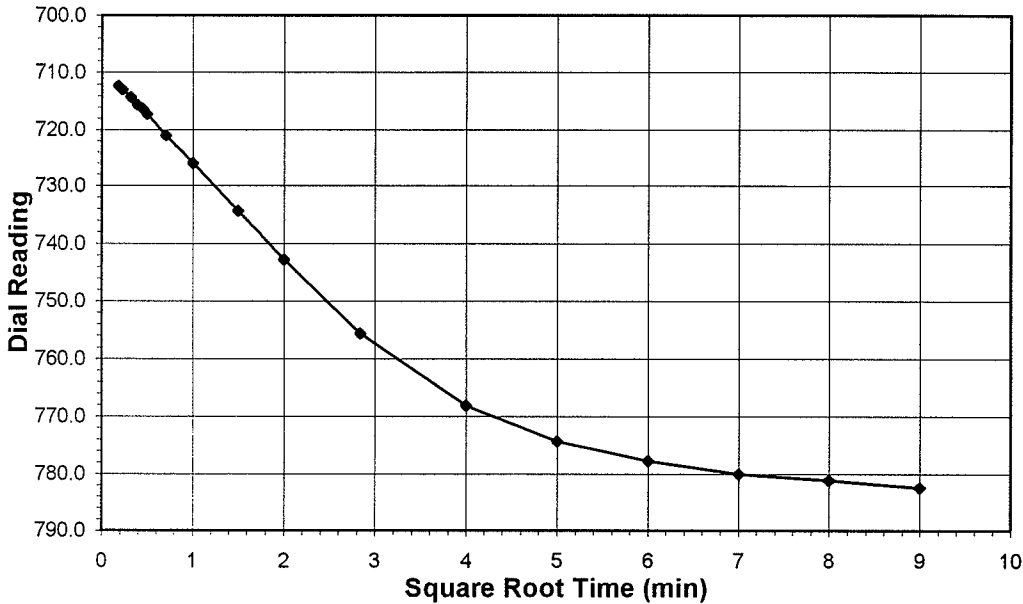
Tested By **TM** Date **10/28/05** Checked By **GU** Date **11/2/05**

ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

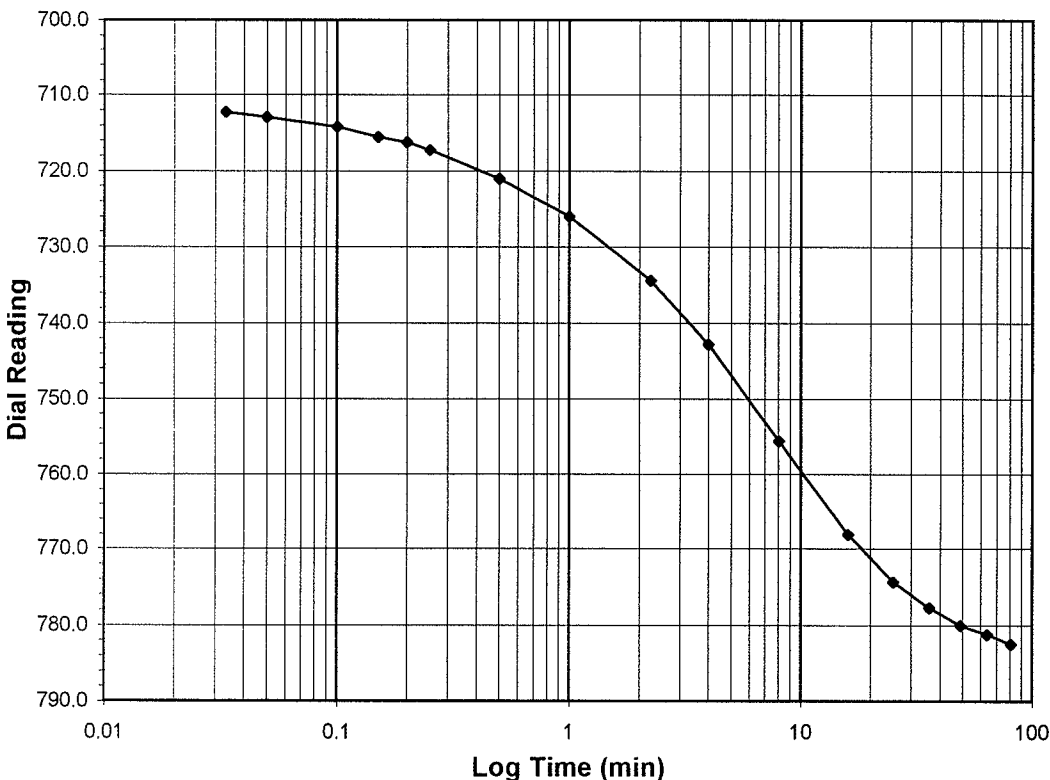
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-200
Client Project	GE PROCESSING FACILITY 20430.011	Depth (ft)	35.6-35.8
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-15	Visual Description	SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	(tsf)	0.5-1.0
Final Reading	(div)	782.5
Consolidometer No.		1
1 Division	(in)	0.0001
Start Date		10/28/05
Start Time		9:51:37

Elapsed Time (min)	Dial Reading (div)
Initial	700.7
0.03	712.3
0.05	712.9
0.10	714.2
0.15	715.6
0.20	716.3
0.25	717.2
0.50	721.0
1.00	726.0
2.25	734.4
4.00	742.7
8.05	755.6
16.00	768.1
25.00	774.3
36.00	777.7
49.00	780.1
64.00	781.2
81.00	782.5

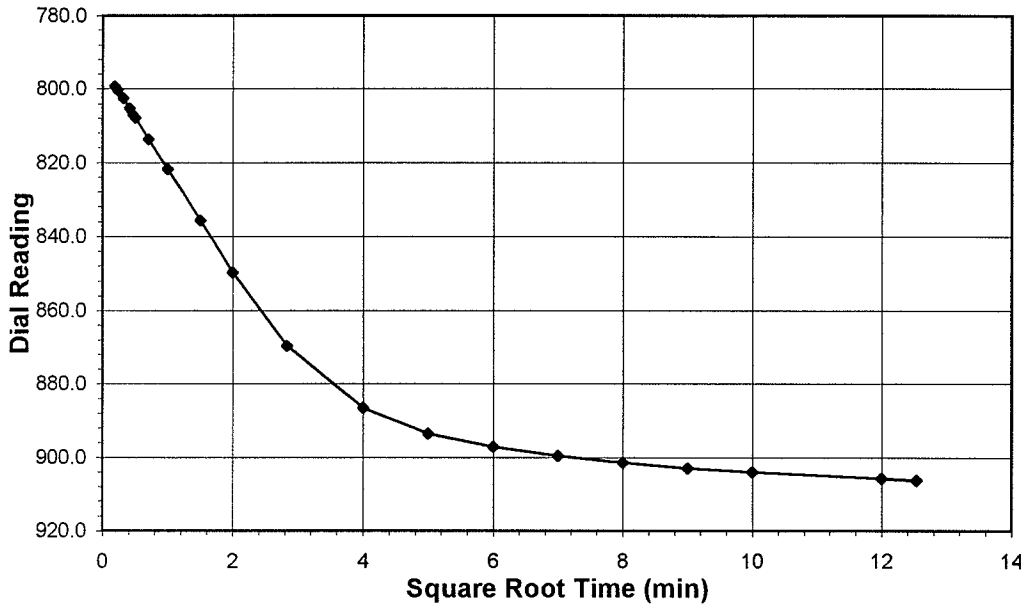


Tested By **TM** Date **10/28/05** Checked By **GU** Date **11/2/05**

ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-96 (SOP-S24A)

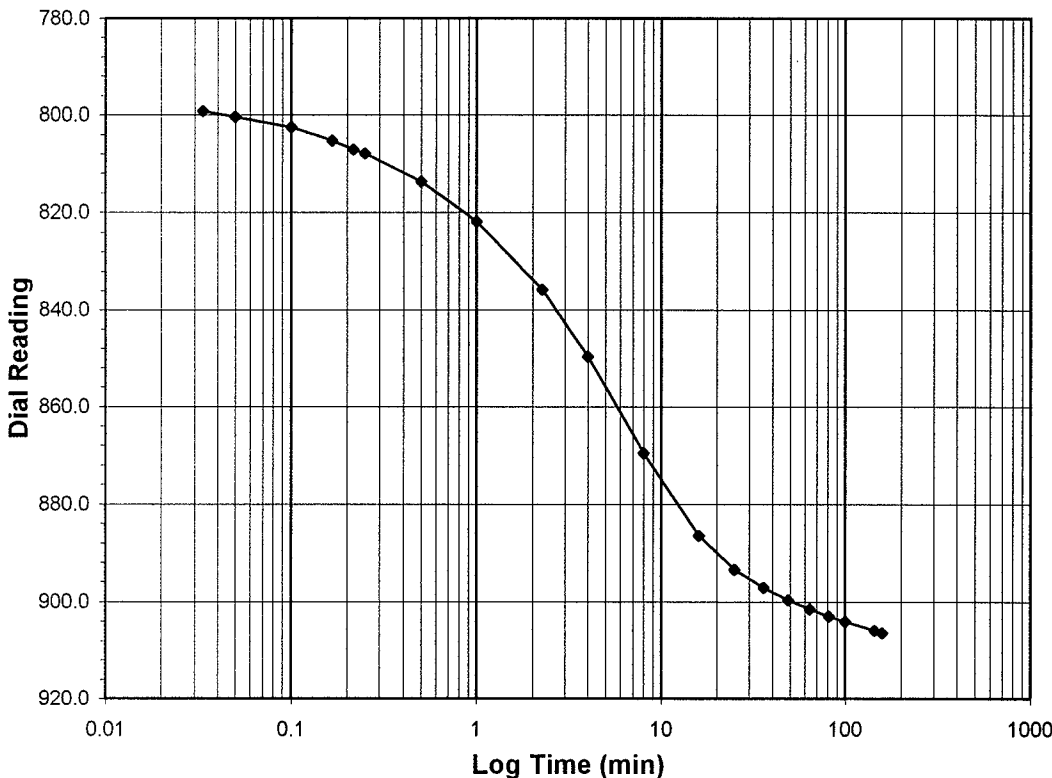
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-200
Client Project	GE PROCESSING FACILITY 20430.011	Depth (ft)	35.6-35.8
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-15	Visual Description	SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	906.3
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	10/28/05
Start Time	11:26:02

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	782.5
0.03	799.2
0.05	800.3
0.10	802.5
0.17	805.3
0.22	807.1
0.25	807.9
0.50	813.7
1.00	821.8
2.25	835.8
4.00	849.6
8.03	869.5
16.00	886.5
25.00	893.4
36.00	897.2
49.00	899.6
64.00	901.4
81.00	903.0
100.00	904.0
144.00	905.8
157.25	906.3



Tested By **TM** Date **10/28/05** Checked By **GU** Date **11/2/05**



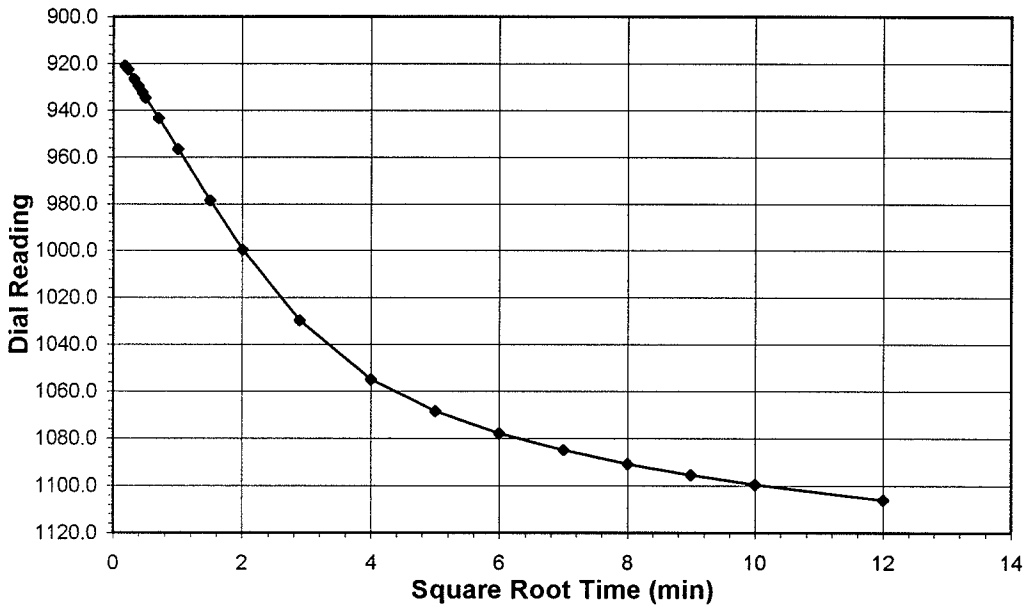
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE
 Client Project: GE PROCESSING FACILITY 20430.011
 Project No.: 2005-329-01
 Lab ID: 2005-329-01-15

Boring No.: GT-200
 Depth (ft): 35.6-35.8
 Sample No.: ST-1
 Visual Description: SOFT GRAY CLAY

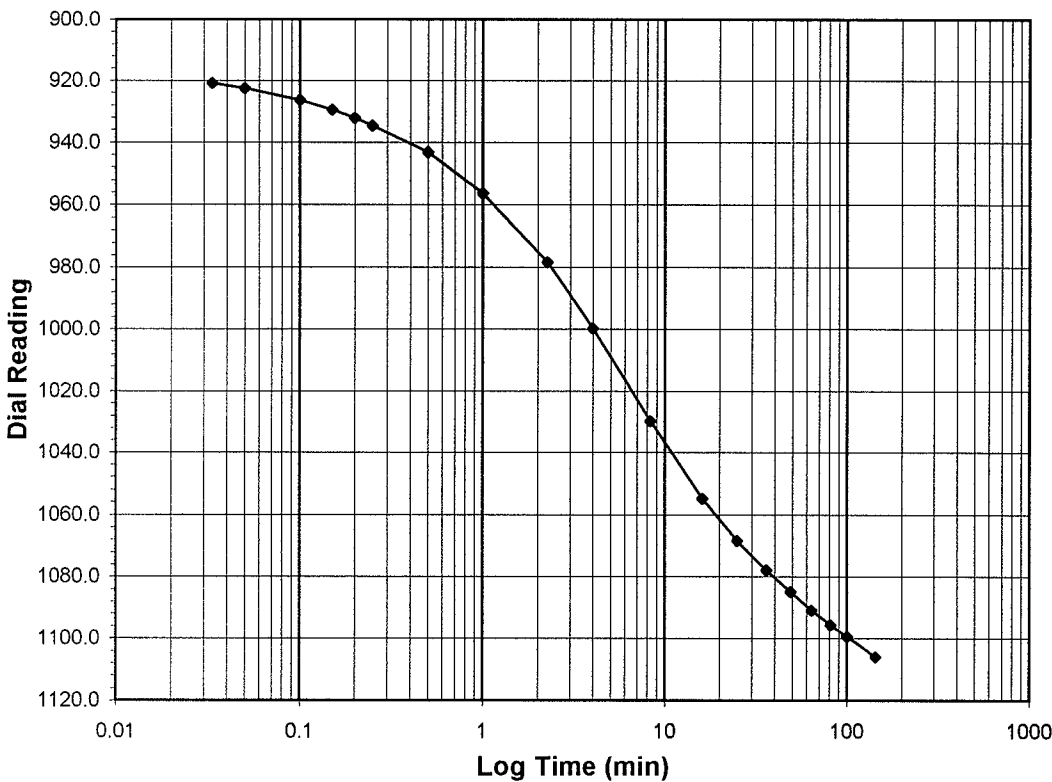
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 2.0-4.0
 Final Reading (div): 1105.9
 Consolidometer No.: 1
 1 Division (in): 0.0001

Start Date: 10/28/05
 Start Time: 14:07:04

Elapsed Time (min)	Dial Reading (div)
Initial	906.3
0.03	920.9
0.05	922.5
0.10	926.5
0.15	929.5
0.20	932.2
0.25	934.7
0.50	943.1
1.00	956.4
2.25	978.4
4.02	999.8
8.33	1029.6
16.00	1054.9
25.00	1068.4
36.00	1077.9
49.00	1084.9
64.00	1090.8
81.00	1095.5
100.00	1099.4
144.00	1105.9



Tested By: TM Date: 10/28/05 Checked By: GU Date: 11/2/05

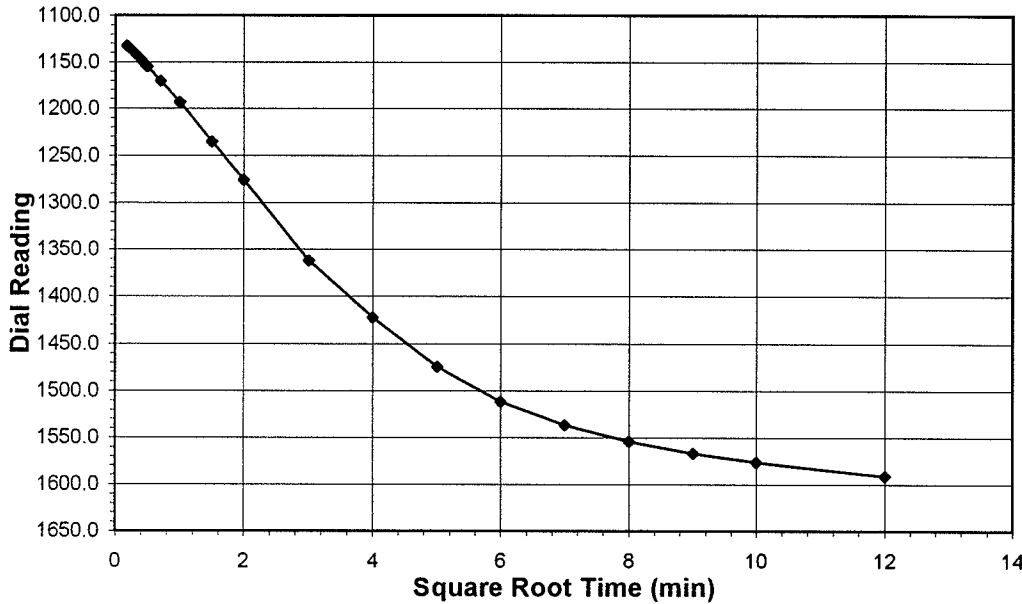
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-15**

Boring No. **GT-200**
 Depth (ft) **35.6-35.8**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

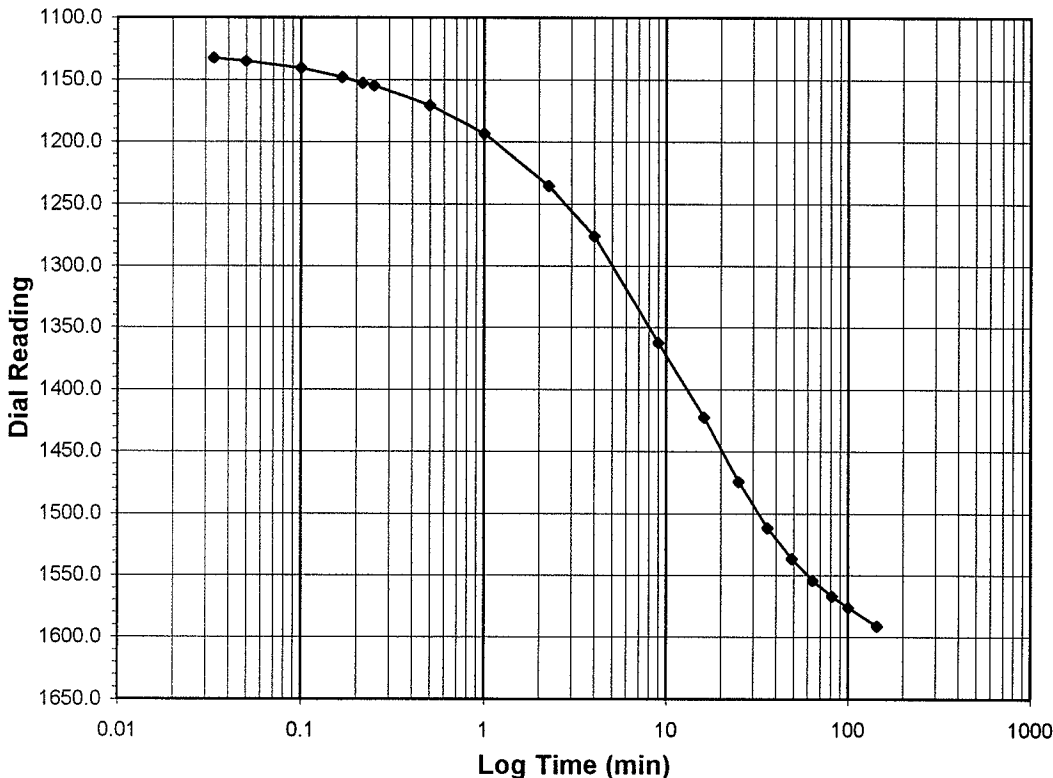
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) **4.0-8.0**
 Final Reading (div) **1590.9**
 Consolidometer No. **1**
 1 Division (in) **0.0001**

Start Date **10/31/05**
 Start Time **8:38:19**

Elapsed Time (min)	Dial Reading (div)
Initial	1105.9
0.03	1132.3
0.05	1135.2
0.10	1140.9
0.17	1148.1
0.22	1152.7
0.25	1154.7
0.50	1170.5
1.00	1193.6
2.25	1235.2
4.00	1275.8
9.03	1362.3
16.00	1422.3
25.00	1474.4
36.02	1511.4
49.02	1536.4
64.00	1553.8
81.02	1566.7
100.00	1576.2
144.00	1590.9

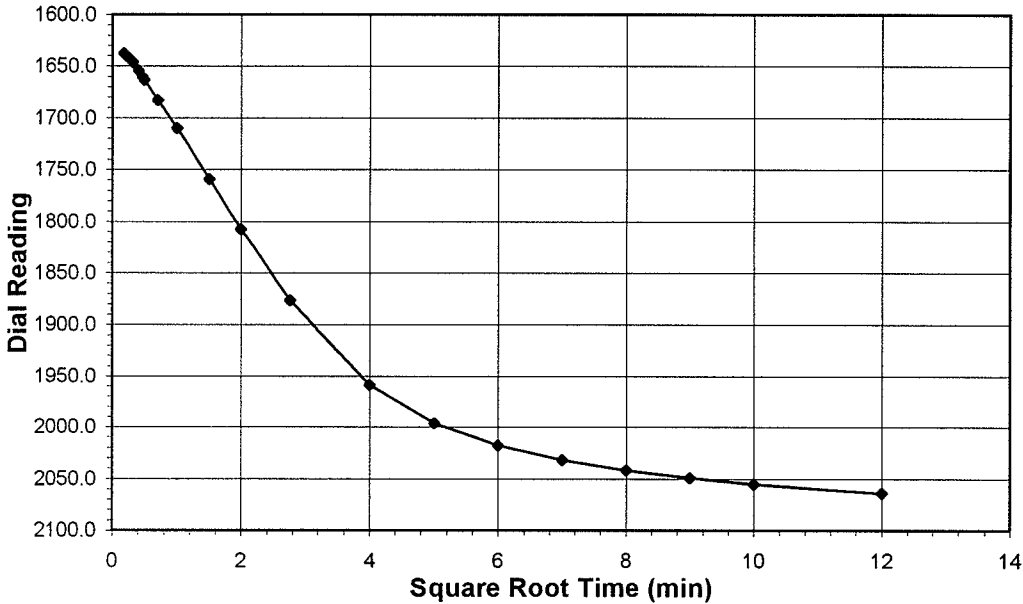


Tested By **TM** Date **10/31/05** Checked By **GU** Date **11/2/05**

ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-96 (SOP-S24A)

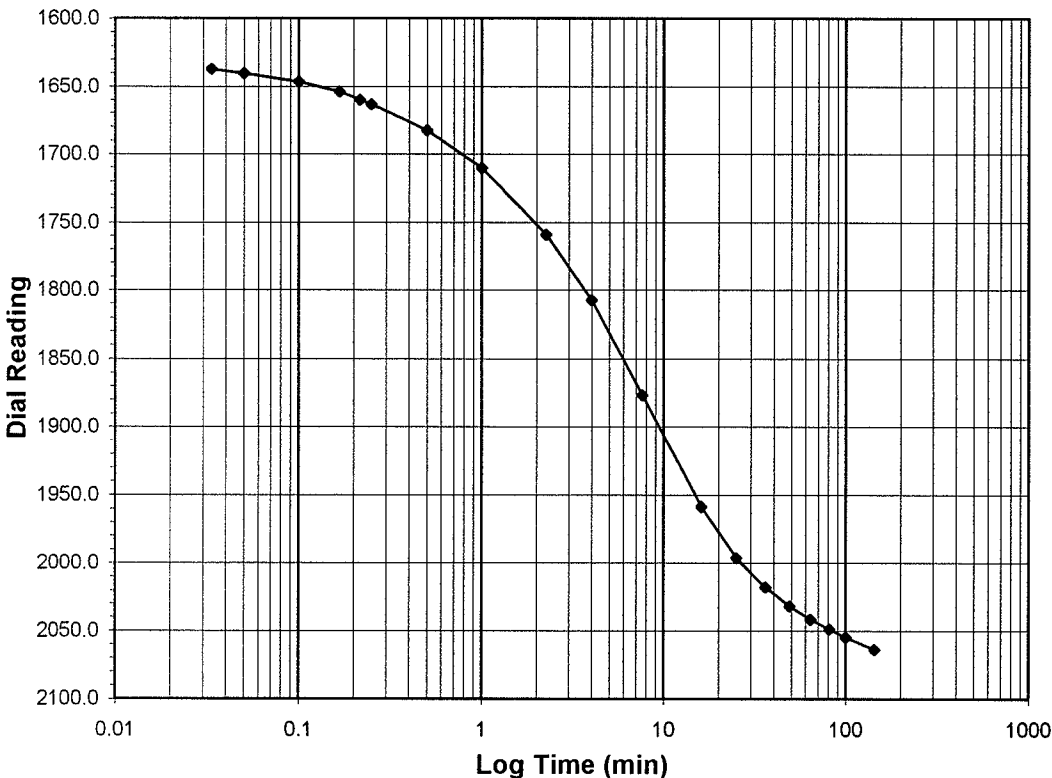
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-200
Client Project	GE PROCESSING FACILITY 20430.011	Depth (ft)	35.6-35.8
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-15	Visual Description	SOFT GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	8.0-16.0
Final Reading (div)	2063.9
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	10/31/05
Start Time	11:16:16

Elapsed Time (min)	Dial Reading (div)
Initial	1590.9
0.03	1637.3
0.05	1640.5
0.10	1646.3
0.17	1653.9
0.22	1660.0
0.25	1663.4
0.50	1682.7
1.00	1710.2
2.25	1759.3
4.00	1807.5
7.62	1876.4
16.00	1958.6
25.00	1996.2
36.00	2017.8
49.00	2032.0
64.00	2041.8
81.00	2049.0
100.00	2055.0
144.00	2063.9



Tested By TM Date 10/31/05 Checked By GL Date 11/2/05

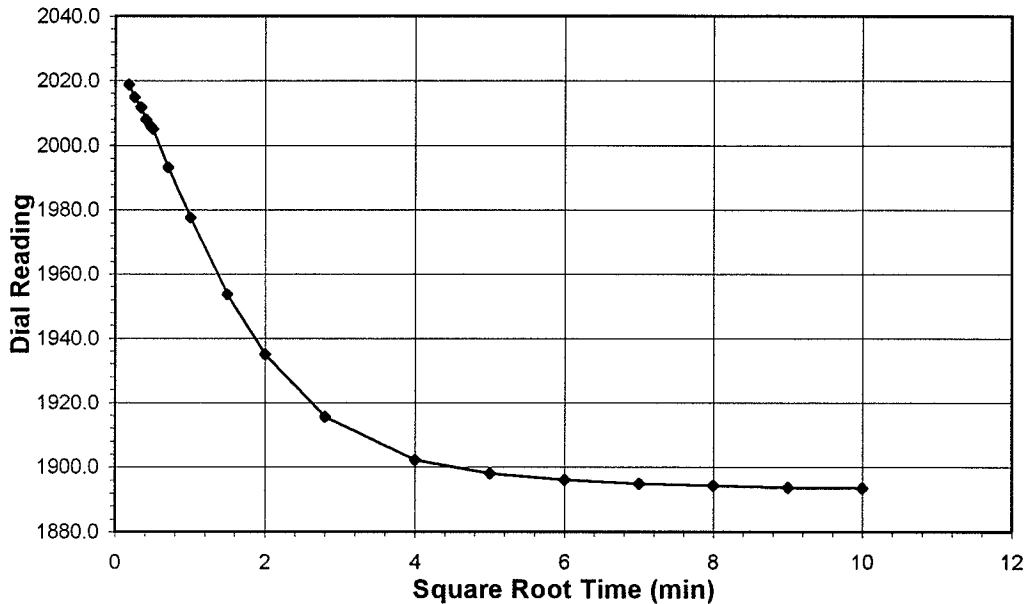
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-15**

Boring No. **GT-200**
 Depth (ft) **35.6-35.8**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

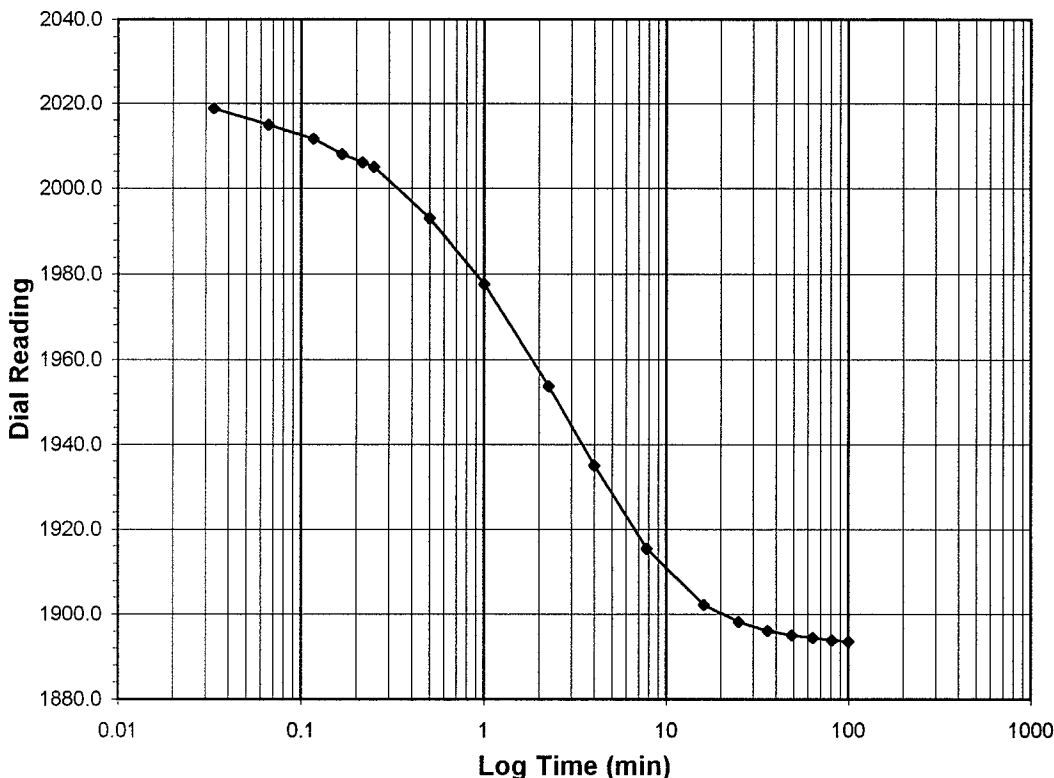
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) **16.0-4.0**
 Final Reading (div) **1893.5**
 Consolidometer No. **1**
 1 Division (in) **0.0001**

Start Date **10/31/05**
 Start Time **13:51:40**

Elapsed Time (min)	Dial Reading (div)
Initial	2063.9
0.03	2018.8
0.07	2014.9
0.12	2011.6
0.17	2007.9
0.22	2006.1
0.25	2005.0
0.50	1993.2
1.00	1977.7
2.25	1953.7
4.00	1935.0
7.82	1915.5
16.02	1902.3
25.00	1898.2
36.00	1896.0
49.00	1895.0
64.00	1894.4
81.00	1893.8
100.02	1893.5



Tested By **TM** Date **10/31/05** Checked By **GU** Date **11/2/05**

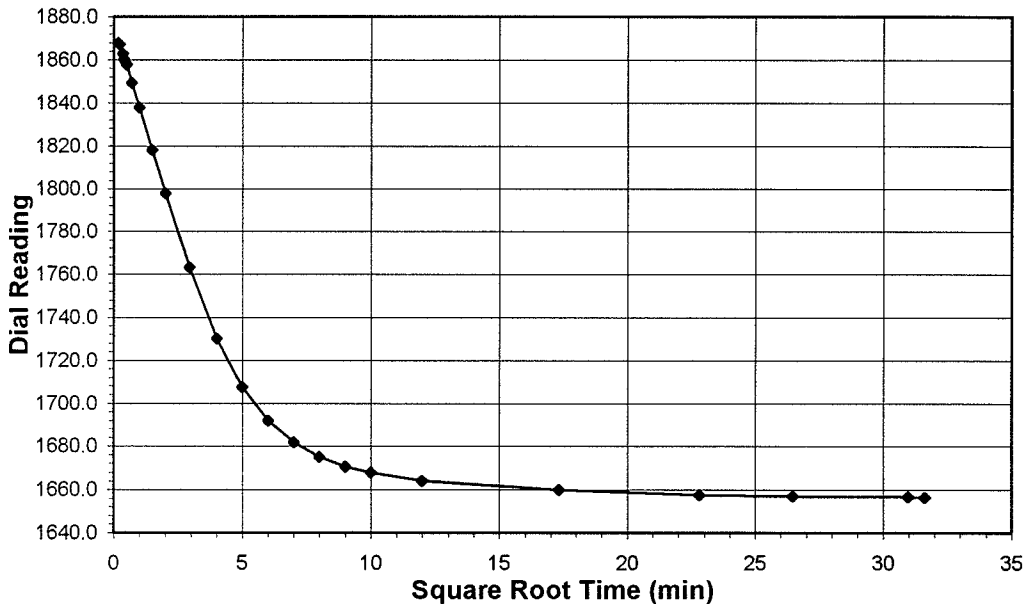
ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**
 Client Project **GE PROCESSING FACILITY 20430.011**
 Project No. **2005-329-01**
 Lab ID **2005-329-01-15**

Boring No. **GT-200**
 Depth (ft) **35.6-35.8**
 Sample No. **ST-1**
 Visual Description **SOFT GRAY CLAY**

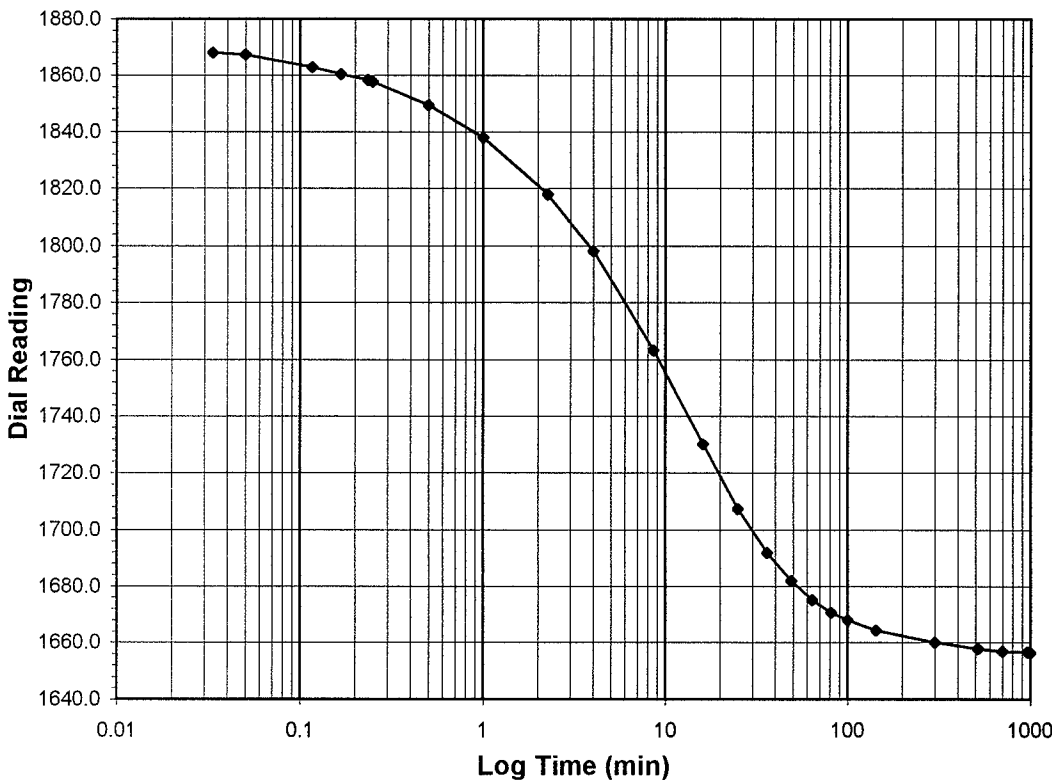
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) **4.0-1.0**
 Final Reading (div) **1656.4**
 Consolidometer No. **1**
 1 Division (in) **0.0001**

Start Date **10/31/05**
 Start Time **15:41:23**

Elapsed Time (min)	Dial Reading (div)
Initial	1893.5
0.03	1868.0
0.05	1867.3
0.12	1863.0
0.17	1860.4
0.23	1858.4
0.25	1857.7
0.50	1849.3
1.00	1837.8
2.25	1818.0
4.00	1798.1
8.57	1763.3
16.00	1730.2
25.00	1707.5
36.00	1691.9
49.00	1681.8
64.00	1675.2
81.00	1670.8
100.00	1667.9
144.00	1664.3
300.00	1660.0
520.00	1657.8
700.02	1657.0
960.00	1656.7
1000.00	1656.4



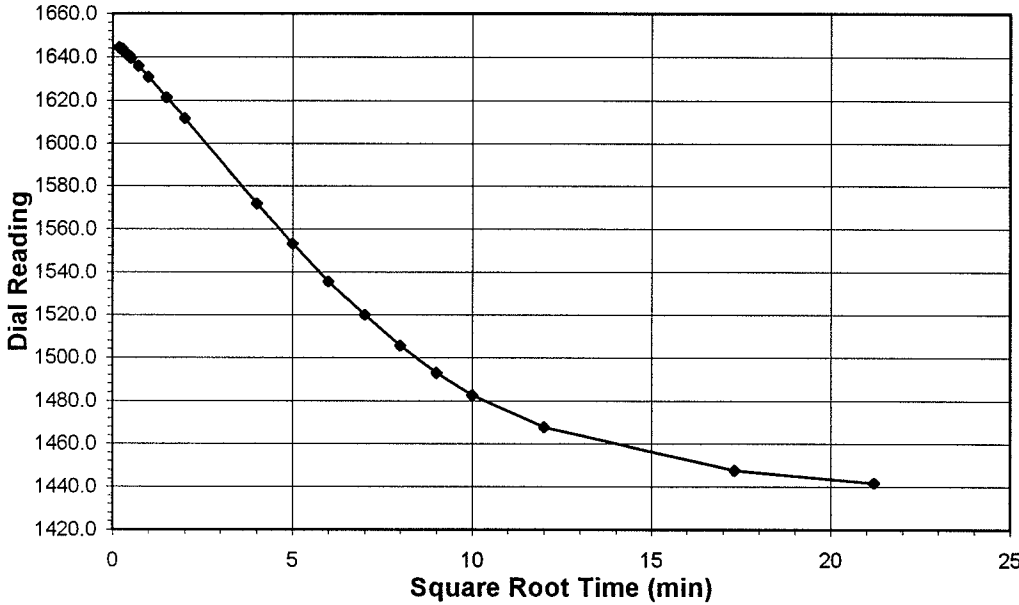
Tested By **TM** Date **10/31/05** Checked By **GU** Date **11/2/05**



ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-200
Client Project	GE PROCESSING FACILITY 20430.011	Depth (ft)	35.6-35.8
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-15	Visual Description	SOFT GRAY CLAY

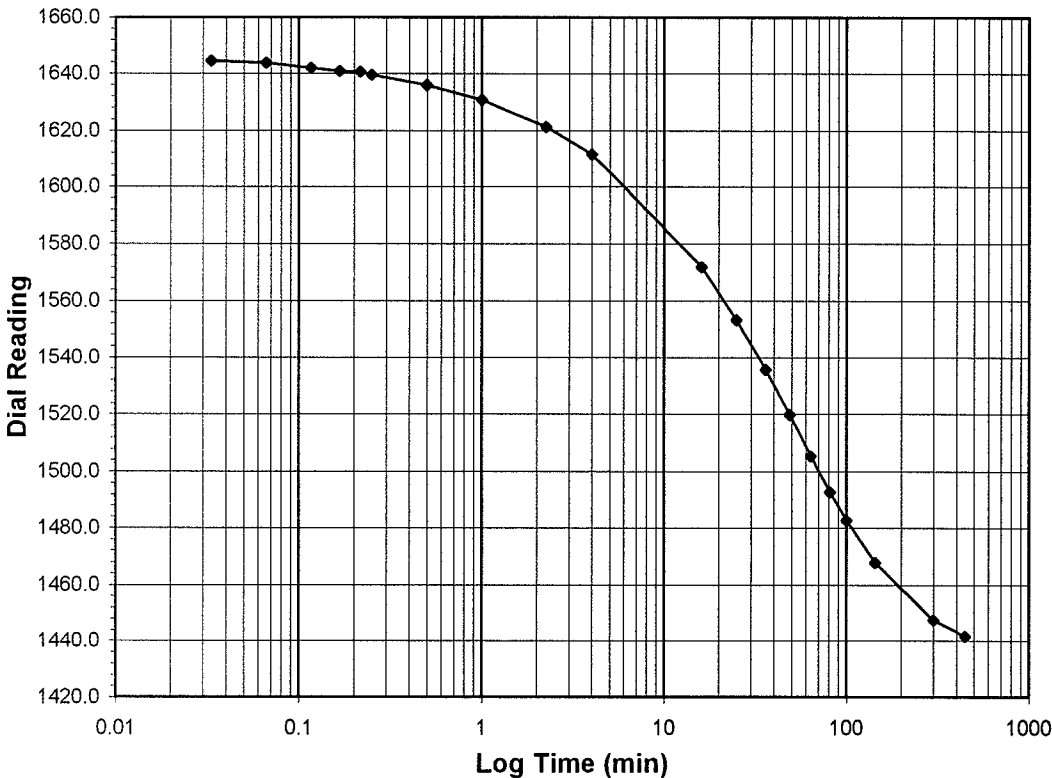
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	(tsf)	1.0-0.25
Final Reading	(div)	1441.7
Consolidometer No.		1
1 Division	(in)	0.0001

Start Date	11/1/05
Start Time	8:40:10

Elapsed Time (min)	Dial Reading (div)
Initial	1656.4
0.03	1644.5
0.07	1643.7
0.12	1642.0
0.17	1640.8
0.22	1640.5
0.25	1639.4
0.50	1635.9
1.00	1630.7
2.25	1621.3
4.00	1611.6
16.00	1571.9
25.00	1553.3
36.00	1535.7
49.00	1519.8
64.00	1505.5
81.00	1492.9
100.00	1482.6
144.00	1467.9
300.00	1447.6
450.00	1441.7



Tested By *TM* Date *11/1/05* Checked By *GU* Date *11/2/05*

SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-203
Client Reference	GE Processing Facility 20430.011	Depth (ft)	4-6
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-05	Soil Color	BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol	sp-sm, ASSUMED	D60 = 0.3	CC = 1.0
USCS Classification	POORLY GRADED SAND WITH SILT UNABLE TO RUN HYDROMETER	D30 = 0.1	CU = 3.4
		D10 = 0.1	

Tested By **BE** Date **10/20/05** Checked By **KB** Date **10-24-05**



WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-203
Client Reference	GE Processing Facility 20430.011	Depth (ft)	4-6
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-05	Soil Color	BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	667	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	481.60	Wgt. Tare + Wet Specimen (gm)	NA
Wgt. Tare + Dry Specimen (gm)	430.37	Wgt. Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	95.97	Weight of Tare (gm)	NA
Weight of Water (gm)	51.23	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	334.40	Weight of Dry Soil (gm)	NA
Moisture Content (%)	15.3	Moisture Content (%)	NA

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	334.40
Dry Weight - 3/4" Sample (gm)	302.0	Weight of minus #200 material (gm)	32.40
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	302.00
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.00	0.00	100.00	100.00
6"	150	0.00	0.00	0.00	100.00	100.00
3"	75	0.00	0.00	0.00	100.00	100.00
2"	50	0.00	0.00	0.00	100.00	100.00
1 1/2"	37.5	0.00	0.00	0.00	100.00	100.00
1"	25.0	0.00	0.00	0.00	100.00	100.00
3/4"	19.0	0.00	0.00	0.00	100.00	100.00
1/2"	12.50	0.00	0.00	0.00	100.00	100.00
3/8"	9.50	0.00	0.00	0.00	100.00	100.00
#4	4.75	0.00	0.00	0.00	100.00	100.00
#10	2.00	0.31	0.09	0.09	99.91	99.91
#20	0.850	12.37	3.70	3.79	96.21	96.21
#40	0.425	59.36	17.75	21.54	78.46	78.46
#60	0.250	68.33	20.43	41.98	58.02	58.02
#140	0.106	140.40	41.99	83.96	16.04	16.04
#200	0.075	21.23	6.35	90.31	9.69	9.69
Pan	-	32.40	9.69	100.00	-	-

Tested By **BE** Date **10/20/05** Checked By **KRB** Date **10-24-05**

**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS**
ASTM D4767-95 / AASHTO T297-94 (SOP-S28)

Client BLASLAND, BOUCK, & LEE
 Client Reference GE Processing Facility 20430.011
 Project No. 2005-329-01
 Lab ID 2005-329-01-16 Specific Gravity (assumed) 2.7
 Visual Description: GRAY SILT (UNDISTURBED)

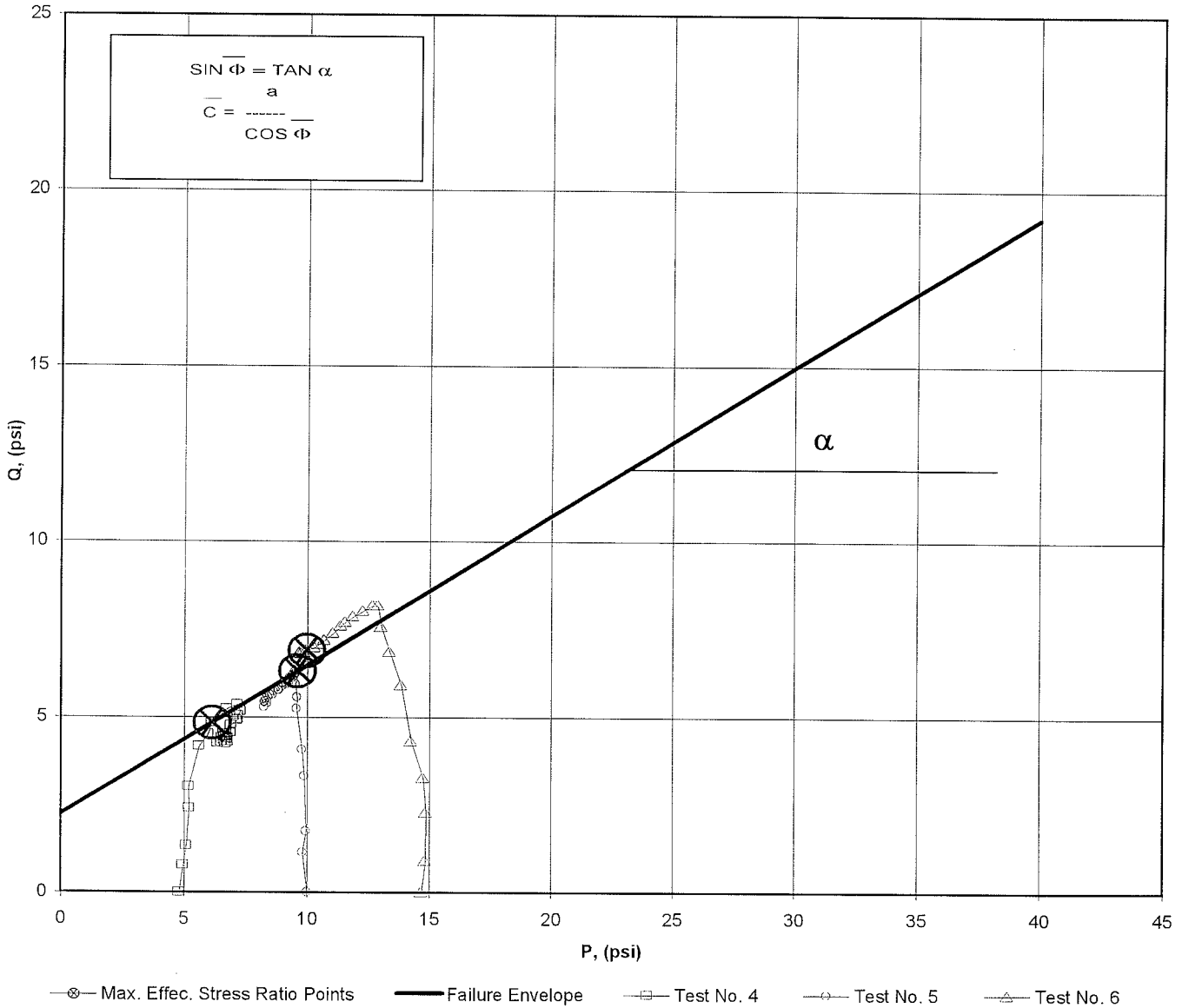
SAMPLE CONDITION SUMMARY

Boring No.	GT-204	GT-204	GT-20
Depth (ft)	27.4-27.9	26.9-27.4	26.4-26.9
Sample No.	ST-1	ST-1	ST-1
Test No.	T4	T5	T6
Deformation Rate (in/min)	0.002	0.002	0.002
Back Pressure (psi)	45.7	45.6	45.5
Consolidation Time (days)	1	1	1
Initial State (w%)	38.4	38.4	38.4
Total Unit Weight (pcf)	111.6	112.8	111.6
Dry Unit Weight (pcf)	80.6	81.5	80.6
Final State (w%)	40.8	37.1	39.3
Initial State Void Ratio,e	1.091	1.069	1.091

**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS
ASTM D4767-95 / AASHTO T297-94 (SOP-S28)**

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-204
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	26.0-28.0
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-16		

Consolidated Undrained Triaxial Test with Pore Pressure

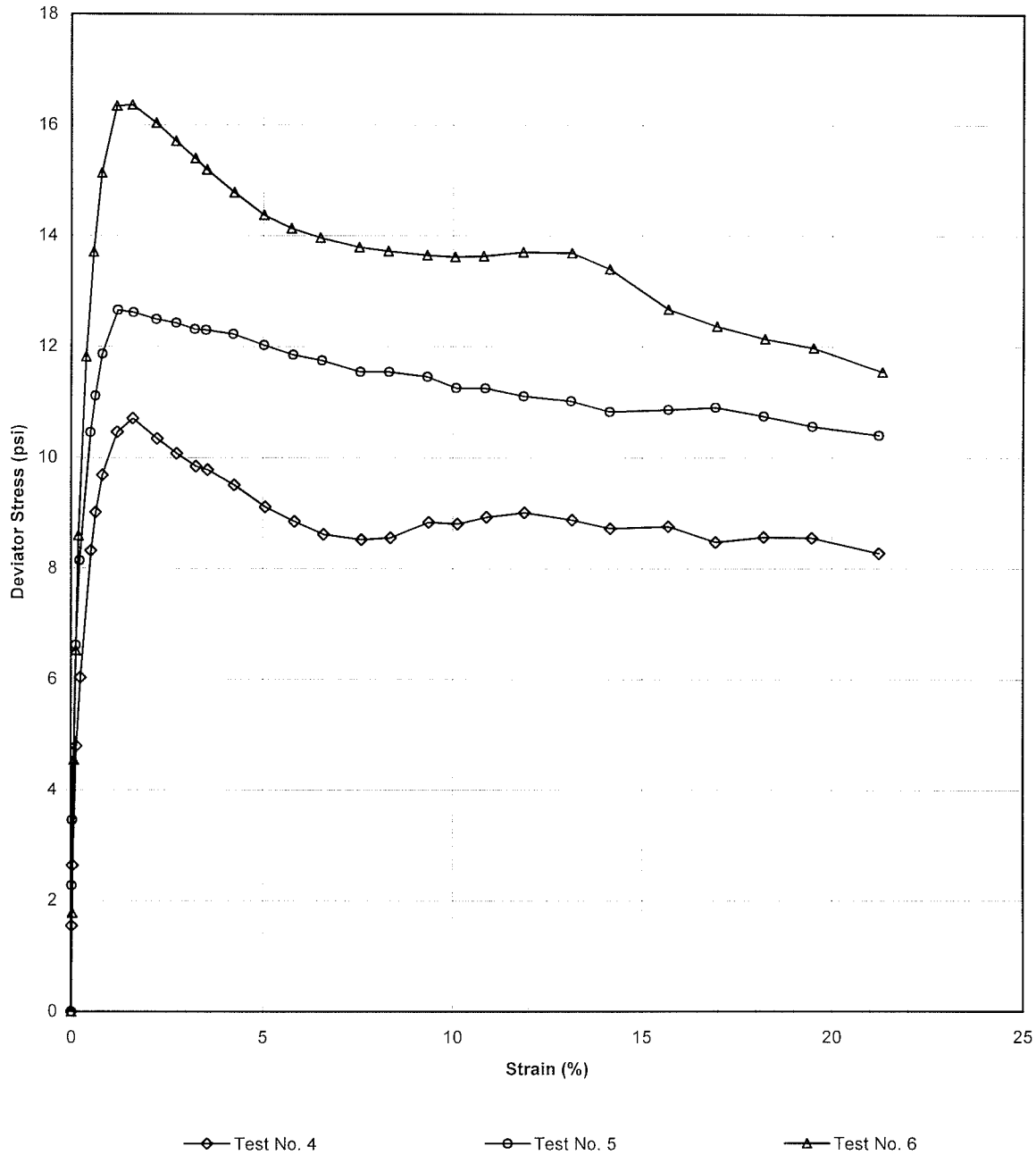


a	=	2.24	\overline{C}	=	2.47
α	=	23.0	$\overline{\phi}$	=	25.12

Tested By JCM Date 10/26/05 Approved By DB Date 11/1/05

**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS
ASTM D4767-95 / AASHTO T297-94 (SOP-S28)**

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-204
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	26.0-28.0
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-16		
Visual Description:	GRAY SILT (UNDISTURBED)		



Tested By JCM Date 10/26/05 Approved By *DB* Date *11/1/05*

**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS**

ASTM D4767-95 / AASHTO T297-94 (SOP-S28)



Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-204
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	22.4-27.9
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-16		

Visual Description: GRAY SILT (UNDISTURBED)

Stage No.	1
Test No	4

INITIAL SAMPLE DIMENSIONS (in)

Length 1	5.908	Diameter 1	2.889
Length 2	5.932	Diameter 2	2.896
Length 3	5.919	Diameter 3	2.887
Avg Leng.=	5.920	Avg. Diam.=	2.891

PRESSURES (psi)

Cell Pressure(psi)	50.5
Back Pressure(psi)	45.7
Eff. Cons. Pressure(psi)	4.8
Pore Pressure	
Response (%)	100

VOLUME CHANGE

Initial Burette Reading (ml)	24.0
Final Burette Reading (ml)	20.3
Final Change (ml)	3.7

MAXIMUM OBLIQUITY POINTS

\bar{P}	=	6.13
Q	=	4.84

Initial Dial Reading (D.R.), mils	65
D.R. After Saturation, mils	84
D.R. After Consolidation, mils	98

LOAD (LBS)	DEFORMATION (INCHES)	PORE PRESSURE (PSI)
9.7	0.000	45.7
19.8	0.001	46.3
26.8	0.002	46.7
40.9	0.008	47.7
49.0	0.014	48.3
64.0	0.030	49.0
68.7	0.038	49.0
73.2	0.048	49.2
78.5	0.071	49.0
80.4	0.094	48.7
78.5	0.132	48.4
77.0	0.162	48.4
75.8	0.191	48.2
75.6	0.209	48.3
74.3	0.250	48.3
72.1	0.298	48.2
70.8	0.343	48.3
69.7	0.389	48.2
69.6	0.447	48.4
70.4	0.492	48.3
73.1	0.552	48.2
73.4	0.596	48.4
74.9	0.642	48.2
76.2	0.700	48.4
76.2	0.775	48.3
75.8	0.834	48.1
77.2	0.924	48.1
76.0	0.997	48.1
77.8	1.072	48.0
78.7	1.147	48.0
78.0	1.250	48.1

Tested By JCM Date 10/26/05 Input Checked By *KB* Date 11-1-05

CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS
ASTM D4767-95 / AASHTO T297-94 (SOP-S28)



Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-204
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	22.4-27.9
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-16		

Visual Description: GRAY SILT (UNDISTURBED)

Effective Confining Pressure (psi)	4.8	Stage No.	1
		Test No	4

INITIAL DIMENSIONS

Initial Sample Length (in.)	5.92
Initial Sample Diameter (in.)	2.89
Initial Sample Area (in ²)	6.56
Initial Sample Volume (in ³)	38.85

VOLUME CHANGE

Volume After Consolidation (in ³)	38.25
Length After Consolidation (in)	5.89
Area After Consolidation (in ²)	6.498

Strain (%)	Deviation Stress	Δ U	σ ₁	σ ₃	Effective Principle Stress Ratio	A	P	Q
0.01	1.55	0.63	5.72	4.2	1.372	0.41	4.95	0.78
0.04	2.64	1.03	6.41	3.8	1.699	0.39	5.09	1.32
0.13	4.79	1.99	7.61	2.8	2.703	0.41	5.21	2.40
0.24	6.03	2.63	8.20	2.2	3.785	0.44	5.18	3.02
0.51	8.32	3.34	9.78	1.5	6.695	0.40	5.62	4.16
0.64	9.02	3.33	10.50	1.5	7.116	0.37	5.99	4.51
0.82	9.69	3.51	10.98	1.3	8.510	0.36	6.13	4.84
1.20	10.46	3.30	11.96	1.5	7.972	0.32	6.73	5.23
1.61	10.71	2.99	12.52	1.8	6.923	0.28	7.16	5.36
2.24	10.34	2.68	12.46	2.1	5.884	0.26	7.29	5.17
2.75	10.08	2.66	12.22	2.1	5.708	0.26	7.18	5.04
3.25	9.85	2.55	12.10	2.3	5.376	0.26	7.17	4.92
3.55	9.78	2.57	12.02	2.2	5.379	0.26	7.13	4.89
4.25	9.51	2.65	11.67	2.2	5.418	0.28	6.91	4.76
5.07	9.12	2.47	11.44	2.3	4.919	0.27	6.88	4.56
5.83	8.86	2.60	11.06	2.2	5.029	0.29	6.63	4.43
6.60	8.62	2.48	10.94	2.3	4.709	0.29	6.63	4.31
7.59	8.52	2.69	10.63	2.1	5.046	0.32	6.37	4.26
8.35	8.56	2.56	10.80	2.2	4.817	0.30	6.52	4.28
9.37	8.84	2.52	11.12	2.3	4.880	0.29	6.70	4.42
10.13	8.81	2.67	10.95	2.1	5.127	0.30	6.54	4.41
10.90	8.93	2.55	11.19	2.3	4.967	0.29	6.72	4.47
11.90	9.01	2.71	11.11	2.1	5.308	0.30	6.60	4.51
13.16	8.88	2.60	11.09	2.2	5.029	0.29	6.65	4.44
14.17	8.73	2.44	11.09	2.4	4.699	0.28	6.72	4.36
15.70	8.76	2.42	11.15	2.4	4.677	0.28	6.77	4.38
16.94	8.48	2.37	10.91	2.4	4.490	0.28	6.67	4.24
18.22	8.57	2.33	11.03	2.5	4.474	0.27	6.75	4.28
19.48	8.55	2.31	11.04	2.5	4.437	0.27	6.77	4.28
21.23	8.27	2.39	10.69	2.4	4.432	0.29	6.55	4.14

Tested By JCM Date 10/26/05 Input Checked By *YKB* Date *11-1-05*

**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS**

ASTM D4767-95 / AASHTO T297-94 (SOP-S28)



Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-204
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	26.9-27.4
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-16		

Visual Description: GRAY SILT (UNDISTURBED)

Stage No.	1
Test No	5

INITIAL SAMPLE DIMENSIONS (in)

Length 1	5.925	Diameter 1	2.895
Length 2	5.912	Diameter 2	2.893
Length 3	5.890	Diameter 3	2.893
Avg Leng.=	5.909	Avg. Diam.=	2.894

PRESSURES (psi)

Cell Pressure(psi)	55.6
Back Pressure(psi)	45.6
Eff. Cons. Pressure(ps)	10.0
Pore Pressure Response (%)	100

VOLUME CHANGE

Initial Burette Reading (ml)	48.0
Final Burette Reading (ml)	39.3
Final Change (ml)	8.7

MAXIMUM OBLIQUITY POINTS

P	=	9.59
Q	=	6.31

Initial Dial Reading (D.R.), mils	80
D.R. After Saturation, mils	103
D.R. After Consolidation, mils	131

LOAD (LBS)	DEFORMATION (INCHES)	PORE PRESSURE (PSI)
11.8	0.000	45.6
26.5	0.001	46.9
34.2	0.002	47.4
54.6	0.007	49.0
64.6	0.013	49.9
79.7	0.029	51.3
84.1	0.037	51.6
89.2	0.048	52.0
94.6	0.071	52.3
94.7	0.094	52.3
94.4	0.129	52.3
94.4	0.160	52.3
94.0	0.188	52.4
94.2	0.205	52.4
94.3	0.247	52.3
93.7	0.294	52.4
93.1	0.339	52.4
93.1	0.384	52.5
92.5	0.443	52.5
93.2	0.487	52.5
93.5	0.546	52.7
92.8	0.591	52.7
93.4	0.636	52.7
93.3	0.695	52.8
93.8	0.769	52.8
93.4	0.829	52.8
95.1	0.919	52.8
96.7	0.992	52.7
96.8	1.067	52.6
96.6	1.141	52.6
97.2	1.244	52.6

Tested By JCM Date 10/26/05 Input Checked By *KB* Date 11-1-05

**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS**
ASTM D4767-95 / AASHTO T297-94 (SOP-S28)



Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-204
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	26.9-27.4
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-16		

Visual Description: GRAY SILT (UNDISTURBED)

Effective Confining Pressure (psi)	10.0	Stage No.	1
		Test No	5

INITIAL DIMENSIONS

Initial Sample Length (in.)	5.91
Initial Sample Diameter (in.)	2.89
Initial Sample Area (in ²)	6.58
Initial Sample Volume (in ³)	38.86

VOLUME CHANGE

Volume After Consolidation (in ³)	37.88
Length After Consolidation (in)	5.86
Area After Consolidation (in ²)	6.466

Strain (%)	Deviation Stress	ΔU	$\bar{\sigma}_1$	$\bar{\sigma}_3$	Effective Principle Stress Ratio	\bar{A}	\bar{P}	Q
0.02	2.27	1.30	10.97	8.7	1.261	0.57	9.83	1.14
0.03	3.46	1.78	11.68	8.2	1.421	0.51	9.95	1.73
0.12	6.62	3.43	13.19	6.6	2.007	0.52	9.88	3.31
0.22	8.14	4.26	13.88	5.7	2.418	0.52	9.81	4.07
0.50	10.46	5.66	14.80	4.3	3.409	0.54	9.57	5.23
0.63	11.11	5.97	15.15	4.0	3.758	0.54	9.59	5.56
0.81	11.87	6.39	15.48	3.6	4.292	0.54	9.54	5.93
1.21	12.66	6.67	15.99	3.3	4.804	0.53	9.66	6.33
1.61	12.62	6.72	15.90	3.3	4.850	0.53	9.59	6.31
2.21	12.49	6.70	15.79	3.3	4.784	0.54	9.55	6.25
2.73	12.43	6.72	15.70	3.3	4.792	0.54	9.49	6.21
3.21	12.31	6.78	15.54	3.2	4.819	0.55	9.38	6.16
3.50	12.30	6.77	15.53	3.2	4.803	0.55	9.38	6.15
4.21	12.23	6.70	15.52	3.3	4.710	0.55	9.41	6.11
5.02	12.03	6.82	15.21	3.2	4.782	0.57	9.19	6.01
5.79	11.85	6.76	15.09	3.2	4.661	0.57	9.16	5.93
6.55	11.75	6.88	14.87	3.1	4.765	0.59	9.00	5.88
7.56	11.54	6.94	14.60	3.1	4.773	0.60	8.83	5.77
8.31	11.55	6.93	14.62	3.1	4.760	0.60	8.84	5.77
9.32	11.46	7.09	14.36	2.9	4.941	0.62	8.63	5.73
10.09	11.26	7.06	14.20	2.9	4.829	0.63	8.57	5.63
10.85	11.25	7.13	14.12	2.9	4.926	0.63	8.49	5.63
11.87	11.11	7.17	13.94	2.8	4.919	0.65	8.39	5.55
13.12	11.02	7.17	13.85	2.8	4.900	0.65	8.34	5.51
14.15	10.83	7.15	13.68	2.8	4.802	0.66	8.27	5.42
15.70	10.87	7.16	13.71	2.8	4.821	0.66	8.28	5.43
16.93	10.91	7.10	13.81	2.9	4.765	0.65	8.35	5.45
18.21	10.75	7.03	13.72	3.0	4.622	0.65	8.34	5.38
19.48	10.56	7.05	13.51	3.0	4.580	0.67	8.23	5.28
21.23	10.40	6.96	13.45	3.0	4.417	0.67	8.25	5.20

Tested By JCM Date 10/26/05 Input Checked By *KB* Date 11-1-05



**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS**

ASTM D4767-95 / AASHTO T297-94 (SOP-S28)

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-204
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	26.4-26.9
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-16		

Visual Description: GRAY SILT (UNDISTURBED)

Stage No.	1
Test No	6

INITIAL SAMPLE DIMENSIONS (in)

Length 1	5.861	Diameter 1	2.895
Length 2	5.853	Diameter 2	2.892
Length 3	5.841	Diameter 3	2.896
Avg Leng.=	5.852	Avg. Diam.=	2.894

PRESSURES (psi)

Cell Pressure(psi)	60.2
Back Pressure(psi)	45.5
Eff. Cons. Pressure(ps)	14.7
Pore Pressure	
Response (%)	100

VOLUME CHANGE

Initial Burette Reading (ml)	48.0
Final Burette Reading (ml)	34.9
Final Change (ml)	13.1

MAXIMUM OBLIQUITY POINTS

P	=	9.98
Q	=	6.90

Initial Dial Reading (D.R.), mils	64
D.R. After Saturation, mils	94
D.R. After Consolidation, mils	141

LOAD (LBS)	DEFORMATION (INCHES)	PORE PRESSURE (PSI)
11.6	0.000	45.5
23.0	0.002	46.2
40.8	0.004	47.6
53.6	0.007	48.7
66.9	0.011	50.2
87.8	0.022	52.2
100.2	0.033	53.7
109.6	0.046	54.7
117.9	0.068	55.5
118.5	0.091	55.7
117.0	0.127	55.9
115.4	0.157	56.2
113.9	0.186	56.3
112.8	0.204	56.4
110.8	0.245	56.5
108.8	0.290	56.7
107.9	0.332	56.8
107.6	0.376	56.9
107.5	0.435	57.1
107.7	0.479	57.0
108.3	0.538	57.3
108.9	0.581	57.2
109.8	0.624	57.3
111.5	0.684	57.3
112.9	0.759	57.2
111.9	0.817	57.0
108.2	0.906	57.0
107.3	0.980	57.0
107.0	1.053	57.1
107.2	1.127	57.2
105.9	1.231	56.9

Tested By JCM Date 10/26/05 Input Checked By *YKB* Date *11-1-05*



**CONSOLIDATED UNDRAINED TRIAXIAL TEST
WITH PORE PRESSURE READINGS
ASTM D4767-95 / AASHTO T297-94 (SOP-S28)**

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-204
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	26.4-26.9
Project No.	2005-329-01	Sample No.	ST-1
Lab ID	2005-329-01-16		

Visual Description: GRAY SILT (UNDISTURBED)

Effective Confining Pressure (psi)	14.7	Stage No.	1
		Test No	6

INITIAL DIMENSIONS

Initial Sample Length (in.)	5.85
Initial Sample Diameter (in.)	2.89
Initial Sample Area (in ²)	6.58
Initial Sample Volume (in ³)	38.50

VOLUME CHANGE

Volume After Consolidation (in ³)	37.11
Length After Consolidation (in)	5.77
Area After Consolidation (in ²)	6.426

Strain (%)	Deviation Stress	ΔU	$\bar{\sigma}_1$	$\bar{\sigma}_3$	Effective Principle Stress Ratio	\bar{A}	\bar{P}	Q
0.03	1.78	0.74	15.74	14.0	1.128	0.42	14.85	0.89
0.08	4.54	2.10	17.14	12.6	1.360	0.46	14.87	2.27
0.12	6.52	3.20	18.02	11.5	1.567	0.49	14.76	3.26
0.19	8.60	4.74	18.56	10.0	1.863	0.55	14.26	4.30
0.38	11.82	6.75	19.77	8.0	2.486	0.57	13.86	5.91
0.58	13.70	8.17	20.23	6.5	3.100	0.60	13.38	6.85
0.80	15.13	9.23	20.60	5.5	3.769	0.61	13.03	7.57
1.18	16.34	9.97	21.07	4.7	4.458	0.61	12.90	8.17
1.58	16.36	10.19	20.87	4.5	4.630	0.62	12.69	8.18
2.21	16.04	10.43	20.30	4.3	4.757	0.65	12.29	8.02
2.72	15.71	10.68	19.73	4.0	4.906	0.68	11.88	7.86
3.23	15.40	10.82	19.28	3.9	4.974	0.70	11.58	7.70
3.53	15.20	10.91	18.99	3.8	5.014	0.72	11.39	7.60
4.24	14.78	11.03	18.45	3.7	5.033	0.75	11.06	7.39
5.02	14.37	11.17	17.90	3.5	5.074	0.78	10.72	7.19
5.74	14.13	11.31	17.52	3.4	5.171	0.80	10.45	7.07
6.51	13.96	11.39	17.27	3.3	5.221	0.82	10.29	6.98
7.53	13.79	11.61	16.88	3.1	5.465	0.84	9.98	6.90
8.29	13.72	11.53	16.89	3.2	5.329	0.84	10.03	6.86
9.31	13.65	11.78	16.57	2.9	5.673	0.86	9.75	6.83
10.05	13.62	11.73	16.58	3.0	5.590	0.86	9.77	6.81
10.81	13.64	11.84	16.50	2.9	5.761	0.87	9.68	6.82
11.85	13.71	11.82	16.59	2.9	5.755	0.86	9.74	6.85
13.14	13.69	11.68	16.71	3.0	5.532	0.85	9.86	6.84
14.14	13.40	11.50	16.60	3.2	5.193	0.86	9.90	6.70
15.69	12.67	11.54	15.84	3.2	5.005	0.91	9.50	6.34
16.97	12.37	11.50	15.57	3.2	4.868	0.93	9.38	6.18
18.24	12.14	11.58	15.26	3.1	4.896	0.95	9.19	6.07
19.52	11.97	11.65	15.02	3.0	4.927	0.97	9.04	5.99
21.31	11.55	11.42	14.83	3.3	4.516	0.99	9.06	5.77

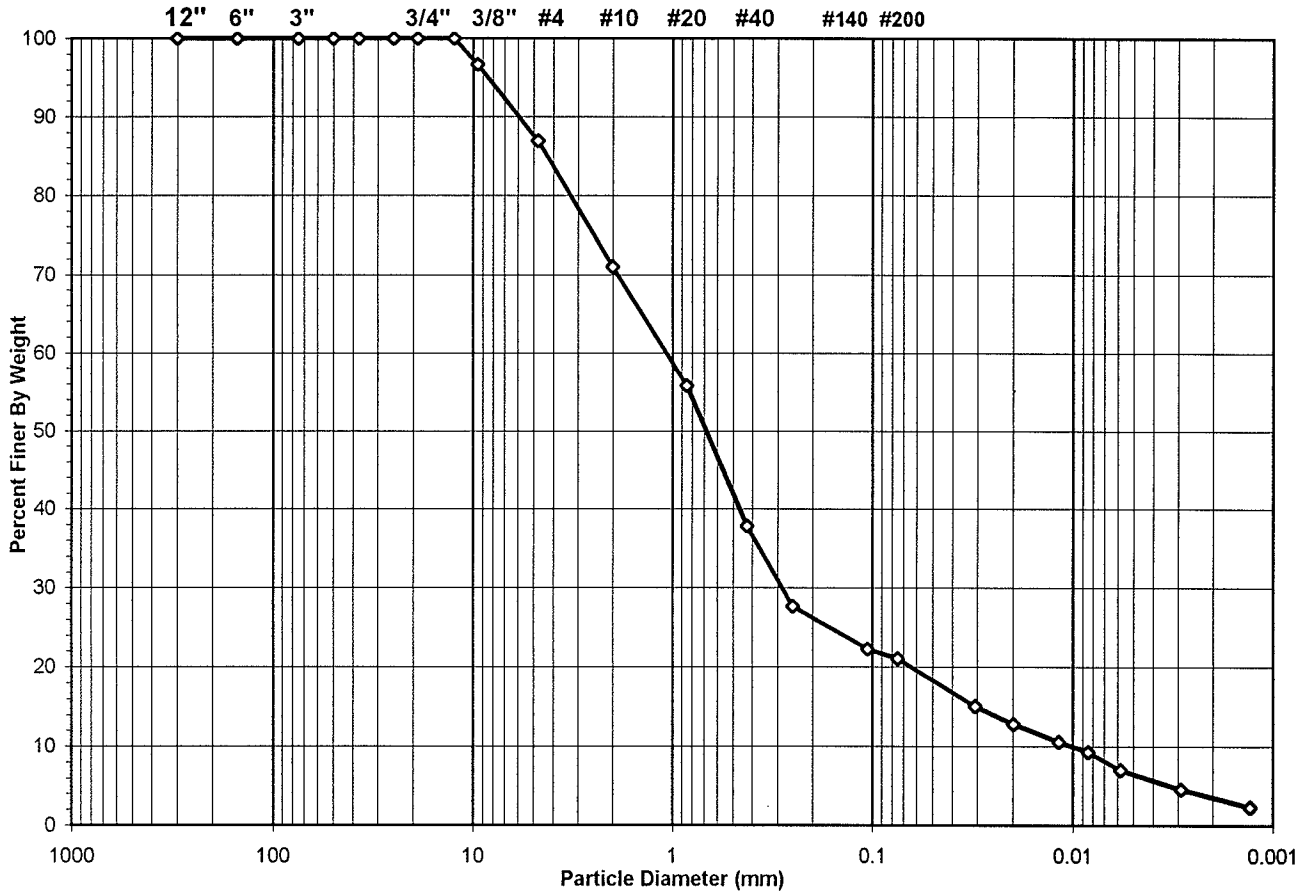
Tested By JCM Date 10/26/05 Input Checked By *YKB* Date *11-1-05*



SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK AND LEE	Boring No.	GT-206
Client Reference	GE Processing Facility 20430.011	Depth (ft)	10-12
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-06	Soil Color	GRAY

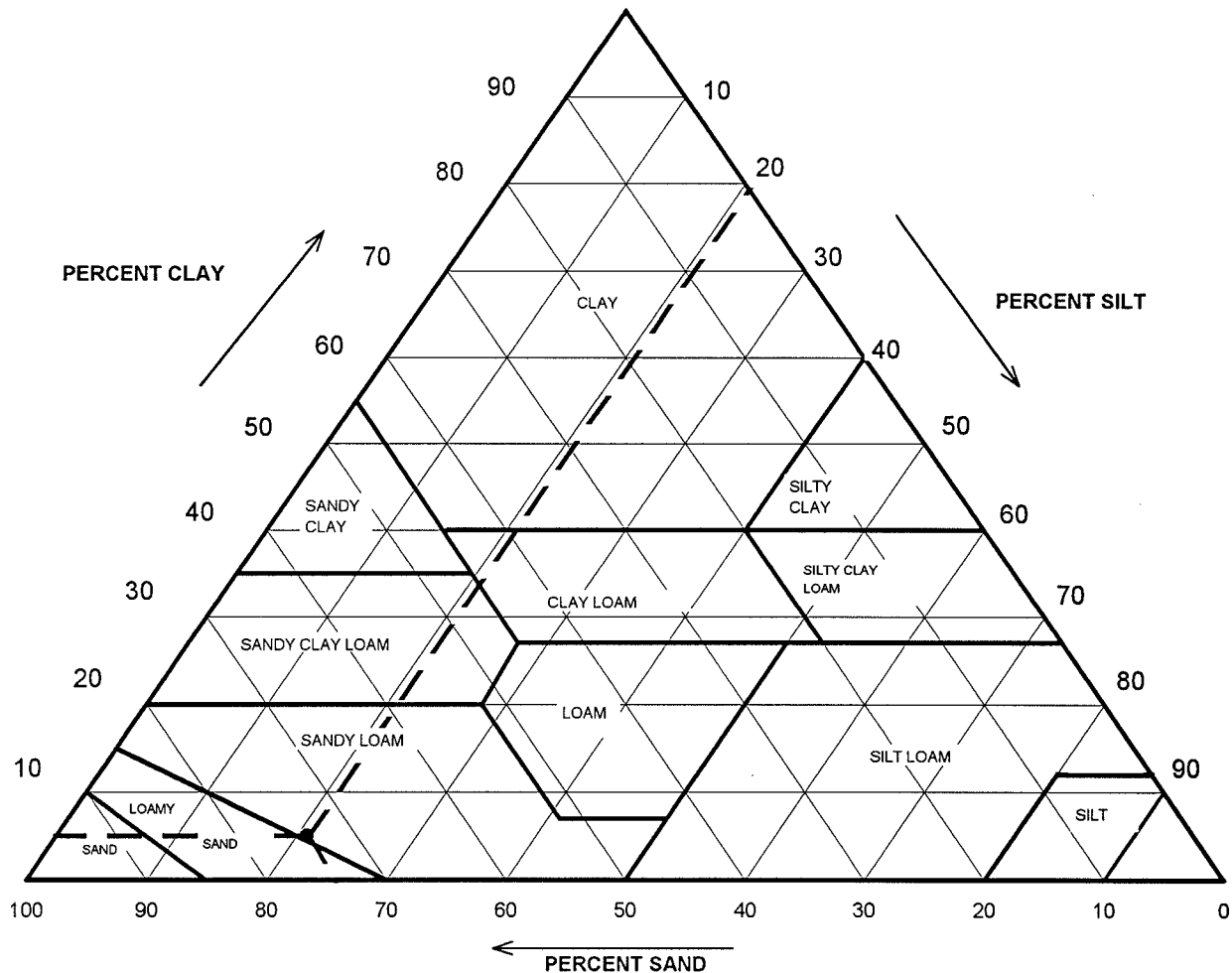
USCS USDA	SIEVE ANALYSIS			HYDROMETER	
	cobbles	gravel	sand	silt and clay fraction	
	cobbles	gravel	sand	silt	clay



USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	Gravel	13.07
#4 To #200	Sand	65.87
Finer Than #200	Silt & Clay	21.06
USCS Symbol	sm, ASSUMED	
USCS Classification	SILTY SAND	

USDA CLASSIFICATION CHART

Client	BLASLAND, BOUCK AND LEE	Boring No.	GT-206
Client Reference	GE Processing Facility 20430.011	Depth (ft)	10-12
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-06	Soil Color	GRAY



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	28.94	0.00
2	71.06	<i>Sand</i>	52.70	74.16
0.05	18.36	<i>Silt</i>	14.82	20.86
0.002	3.54	<i>Clay</i>	3.54	4.98
USDA Classification		SANDY LOAM		



WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK AND LEE	Boring No.	GT-206
Client Reference	GE Processing Facility 20430.011	Depth (ft)	10-12
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-06	Soil Color	GRAY

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	2354	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	433.40	Wgt. Tare + Wet Specimen (gm)	NA
Wgt. Tare + Dry Specimen (gm)	372.56	Wgt. Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	97.49	Weight of Tare (gm)	NA
Weight of Water (gm)	60.84	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	275.07	Weight of Dry Soil (gm)	NA
Moisture Content (%)	22.1	Moisture Content (%)	NA

Wet Weight - 3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	275.07
Dry Weight - 3/4" Sample (gm)	217.13	Weight of minus #200 material (gm)	57.94
Wet Weight + 3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	217.13
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.00	0.00	100.00	100.00
6"	150	0.00	0.00	0.00	100.00	100.00
3"	75	0.00	0.00	0.00	100.00	100.00
2"	50	0.00	0.00	0.00	100.00	100.00
1 1/2"	37.5	0.00	0.00	0.00	100.00	100.00
1"	25.0	0.00	0.00	0.00	100.00	100.00
3/4"	19.0	0.00	0.00	0.00	100.00	100.00
1/2"	12.5	0.00	0.00	0.00	100.00	100.00
3/8"	9.50	9.16	3.33	3.33	96.67	96.67
#4	4.75	26.79	9.74	13.07	86.93	86.93
#10	2.00	43.66	15.87	28.94	71.06	71.06
#20	0.85	41.91	15.24	44.18	55.82	55.82
#40	0.425	49.53	18.01	62.18	37.82	37.82
#60	0.250	27.85	10.12	72.31	27.69	27.69
#140	0.106	14.87	5.41	77.71	22.29	22.29
#200	0.075	3.36	1.22	78.94	21.06	21.06
Pan	-	57.94	21.06	100.00	-	-

Tested By **BE** Date **10/6/05** Checked By **YKB** Date **10-11-05**



HYDROMETER ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK AND LEE	Boring No.	GT-206
Client Reference	GE Processing Facility 20430.011	Depth (ft)	10-12
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-06	Soil Color	GRAY

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	29.0	29.5	6.04	23.5	71.7	0.01281	0.0307	15.1
5		26.0	6.04	20.0	61.0	0.01281	0.0199	12.8
15		22.5	6.04	16.5	50.3	0.01281	0.0117	10.6
30		20.5	6.04	14.5	44.2	0.01281	0.0084	9.3
66		17.0	6.07	10.9	33.4	0.01282	0.0058	7.0
284		13.5	6.40	7.1	21.7	0.01296	0.0029	4.6
1440		10.0	6.36	3.6	11.1	0.01294	0.0013	2.3

Soil Specimen Data		Other Corrections	
Tare No.	672		
Tare + Dry Material (gm)	135.18	a - Factor	0.99
Weight of Tare (gm)	97.78		
Weight of Deflocculant (gm)	5.0	Percent Finer than # 200	21.06
Weight of Dry Material (gm)	32.4	Specific Gravity	2.7 Assumed

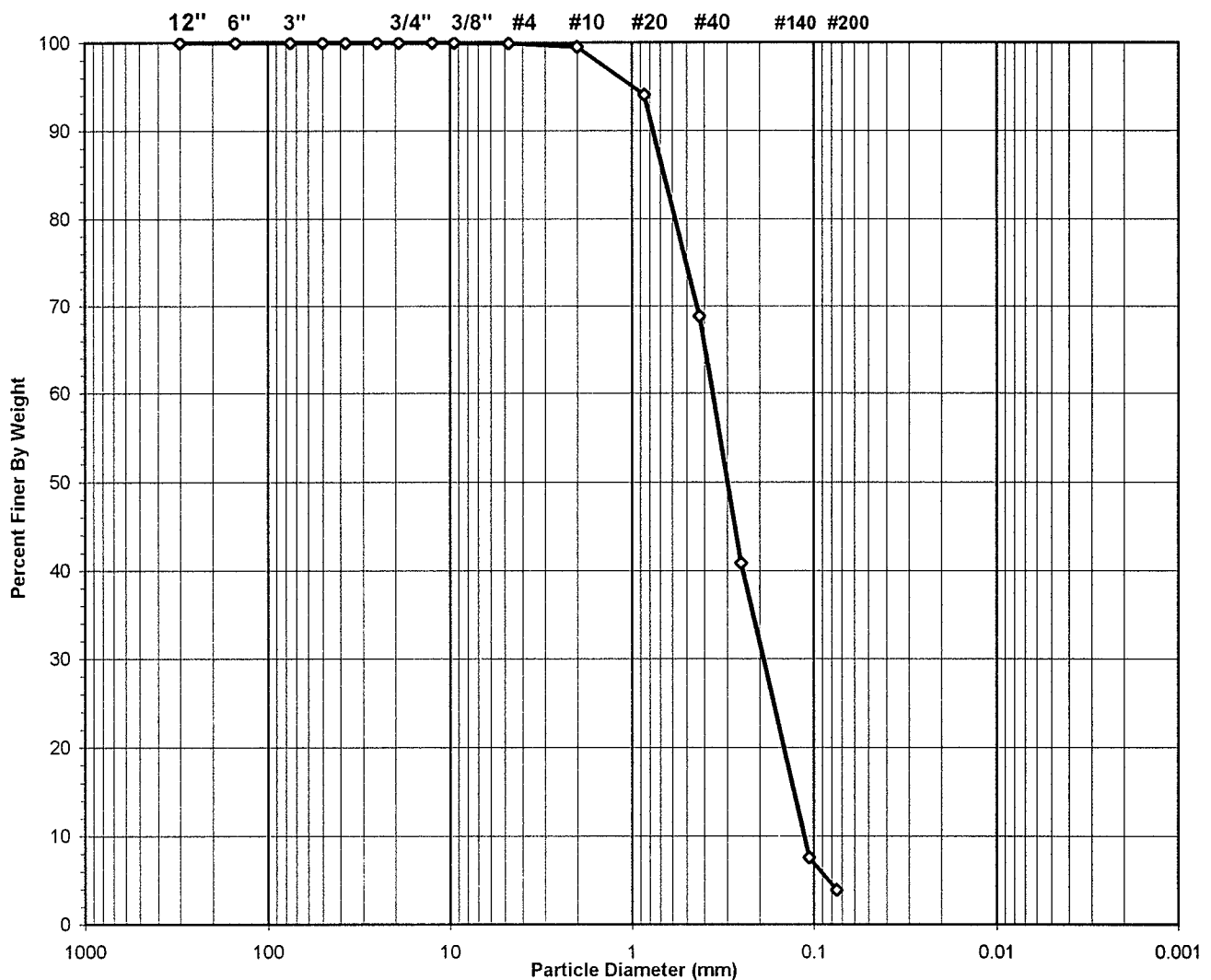
Note: Hydrometer test is performed on - # 200 sieve material.

Tested By TO Date 10/5/05 Checked By *KYB* Date 10-11-05

SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-207
Client Reference	GE Processing Facility 20430.011	Depth (ft)	2-4
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-07	Soil Color	BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol	<i>sp, ASSUMED</i>	D60 = 0.4	CC = 0.9
USCS Classification	POORLY GRADED SAND UNABLE TO RUN HYDROMETER	D30 = 0.2	CU = 3.2
		D10 = 0.1	

Tested By **BE** Date **10/6/05** Checked By **Y/B** Date **10-10-05**



WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-207
Client Reference	GE Processing Facility 20430.011	Depth (ft)	2-4
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-07	Soil Color	BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	684	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	405.90	Wgt. Tare + Wet Specimen (gm)	NA
Wgt. Tare + Dry Specimen (gm)	393.60	Wgt. Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	97.90	Weight of Tare (gm)	NA
Weight of Water (gm)	12.30	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	295.70	Weight of Dry Soil (gm)	NA
Moisture Content (%)	4.2	Moisture Content (%)	NA

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	295.70
Dry Weight - 3/4" Sample (gm)	284.2	Weight of minus #200 material (gm)	11.54
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	284.16
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.00	0.00	100.00	100.00
6"	150	0.00	0.00	0.00	100.00	100.00
3"	75	0.00	0.00	0.00	100.00	100.00
2"	50	0.00	0.00	0.00	100.00	100.00
1 1/2"	37.5	0.00	0.00	0.00	100.00	100.00
1"	25.0	0.00	0.00	0.00	100.00	100.00
3/4"	19.0	0.00	0.00	0.00	100.00	100.00
1/2"	12.50	0.00	0.00	0.00	100.00	100.00
3/8"	9.50	0.00	0.00	0.00	100.00	100.00
#4	4.75	0.11	0.04	0.04	99.96	99.96
#10	2.00	1.22	0.41	0.45	99.55	99.55
#20	0.850	16.10	5.44	5.89	94.11	94.11
#40	0.425	74.62	25.24	31.13	68.87	68.87
#60	0.250	82.78	27.99	59.12	40.88	40.88
#140	0.106	98.53	33.32	92.45	7.55	7.55
#200	0.075	10.80	3.65	96.10	3.90	3.90
Pan	-	11.54	3.90	100.00	-	-

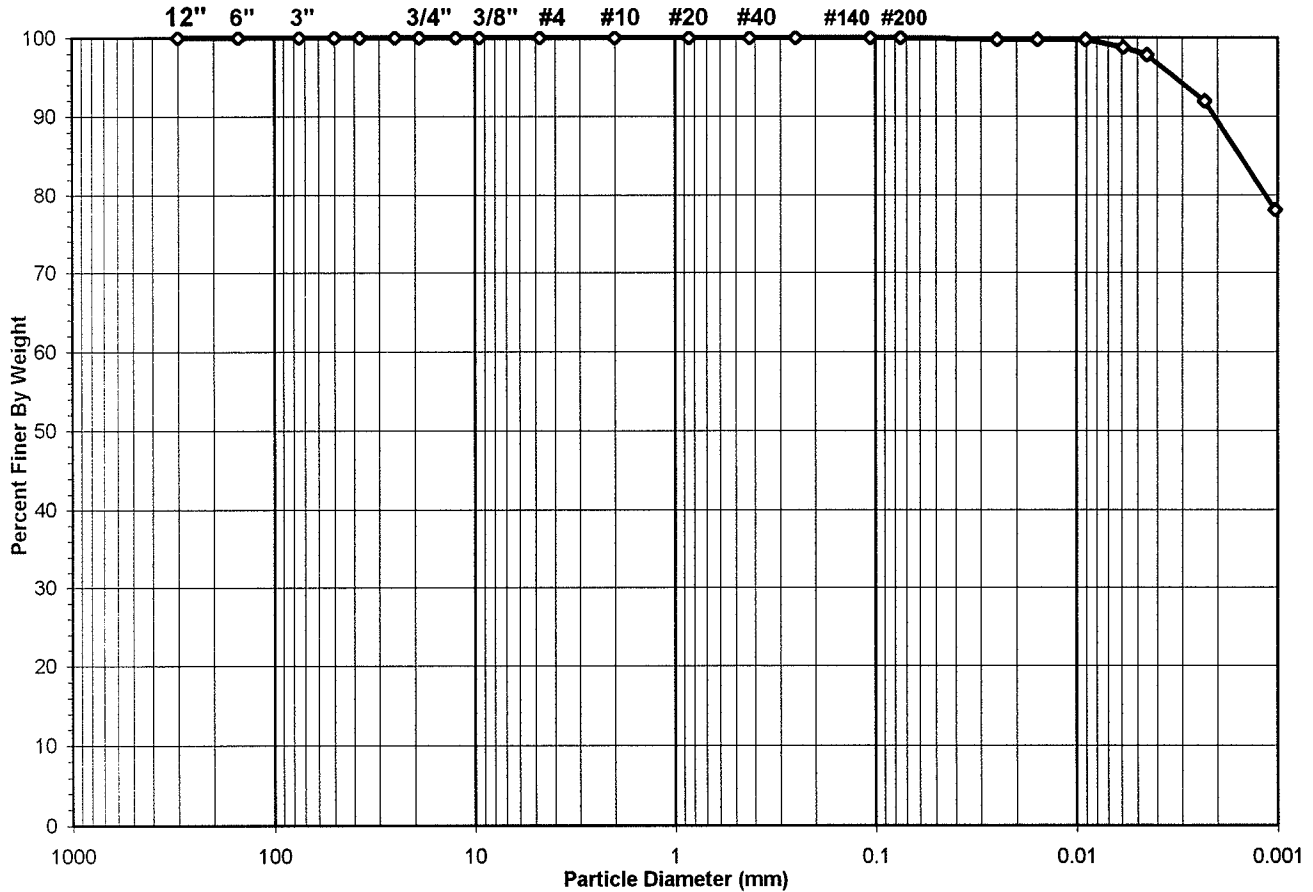
Tested By **BE** Date **10/6/05** Checked By **YAB** Date **10-10-05**



SIEVE AND HYDROMETER ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-207
Client Reference	GE Processing Facility 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Soil Color	BROWNISH GRAY

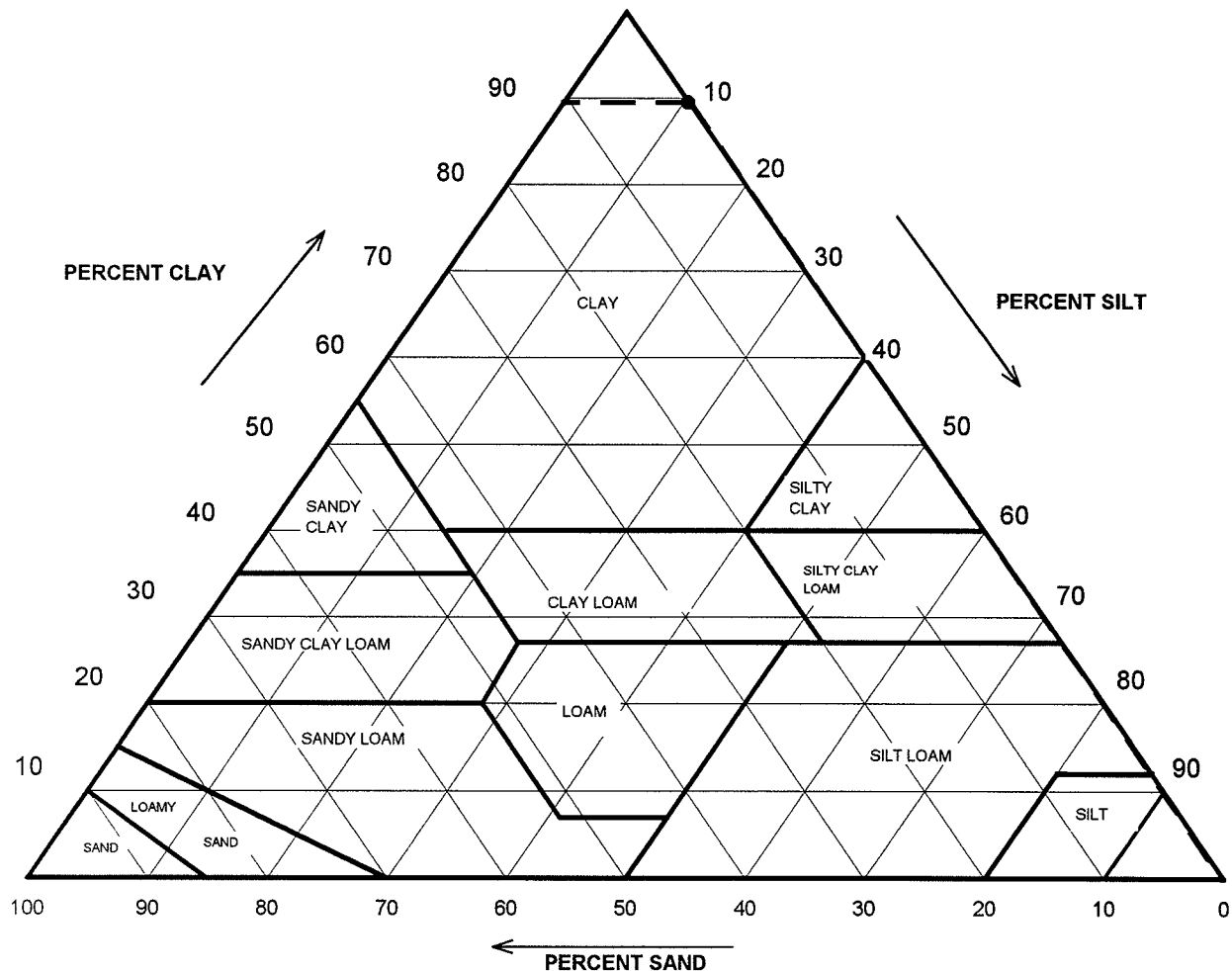
USCS USDA	SIEVE ANALYSIS			HYDROMETER	
	cobbles	gravel	sand	silt and clay fraction	
	cobbles	gravel	sand	silt	clay



USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	0.00
Finer Than #200	<i>Silt & Clay</i>	100.00
USCS Symbol	CH, TESTED	
USCS Classification	FAT CLAY	

USDA CLASSIFICATION CHART

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-207
Client Reference	GE Processing Facility 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Soil Color	BROWNISH GRAY



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	0.07	0.07
0.05	99.93	<i>Silt</i>	10.45	10.45
0.002	89.47	<i>Clay</i>	89.47	89.47
USDA Classification		CLAY		



WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-207
Client Reference	GE Processing Facility 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Soil Color	BROWNISH GRAY

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	2326	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	623.86	Wgt. Tare + Wet Specimen (gm)	NA
Wgt. Tare + Dry Specimen (gm)	424.11	Wgt. Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	99.04	Weight of Tare (gm)	NA
Weight of Water (gm)	199.75	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	325.07	Weight of Dry Soil (gm)	NA
Moisture Content (%)	61.4	Moisture Content (%)	NA

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	325.07
Dry Weight - 3/4" Sample (gm)	0.00	Weight of minus #200 material (gm)	325.07
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	0.00
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.00	0.00	100.00	100.00
6"	150	0.00	0.00	0.00	100.00	100.00
3"	75	0.00	0.00	0.00	100.00	100.00
2"	50	0.00	0.00	0.00	100.00	100.00
1 1/2"	37.5	0.00	0.00	0.00	100.00	100.00
1"	25.0	0.00	0.00	0.00	100.00	100.00
3/4"	19.0	0.00	0.00	0.00	100.00	100.00
1/2"	12.5	0.00	0.00	0.00	100.00	100.00
3/8"	9.50	0.00	0.00	0.00	100.00	100.00
#4	4.75	0.00	0.00	0.00	100.00	100.00
#10	2.00	0.00	0.00	0.00	100.00	100.00
#20	0.85	0.00	0.00	0.00	100.00	100.00
#40	0.425	0.00	0.00	0.00	100.00	100.00
#60	0.250	0.00	0.00	0.00	100.00	100.00
#140	0.106	0.00	0.00	0.00	100.00	100.00
#200	0.075	0.00	0.00	0.00	100.00	100.00
Pan	-	325.07	100.00	100.00	-	-

Tested By TO Date 12/28/05 Checked By *Y/B* Date 1-9-06

HYDROMETER ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-207
Client Reference	GE Processing Facility 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Soil Color	BROWNISH GRAY

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	56.0	21.7	6.91	49.1	99.8	0.01317	0.0248	99.8
5	56.0	21.7	6.91	49.1	99.8	0.01317	0.0157	99.8
15	56.0	21.7	6.91	49.1	99.8	0.01317	0.0091	99.8
36	55.5	21.7	6.91	48.6	98.8	0.01317	0.0059	98.8
63	55.0	21.8	6.87	48.1	97.8	0.01316	0.0045	97.8
250	52.0	22.1	6.76	45.2	92.0	0.01311	0.0023	92.0
1440	45.0	22.5	6.62	38.4	78.0	0.01305	0.0010	78.0

Soil Specimen Data	Other Corrections
Tare No. 976	
Tare + Dry Material (gm) 157.12	a - Factor 0.99
Weight of Tare (gm) 103.42	
Weight of Deflocculant (gm) 5.0	Percent Finer than # 200 100.00
Weight of Dry Material (gm) 48.7	Specific Gravity 2.7 Assumed

Note: Hydrometer test is performed on - # 200 sieve material.

Tested By TO Date 12/28/05 Checked By *YKB* Date 1-9-06

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-207
Client Reference	GE Processing Facility 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	ST-1
Lab ID	2005-329-06-02	Soil Description	BROWNISH GRAY FAT CLAY

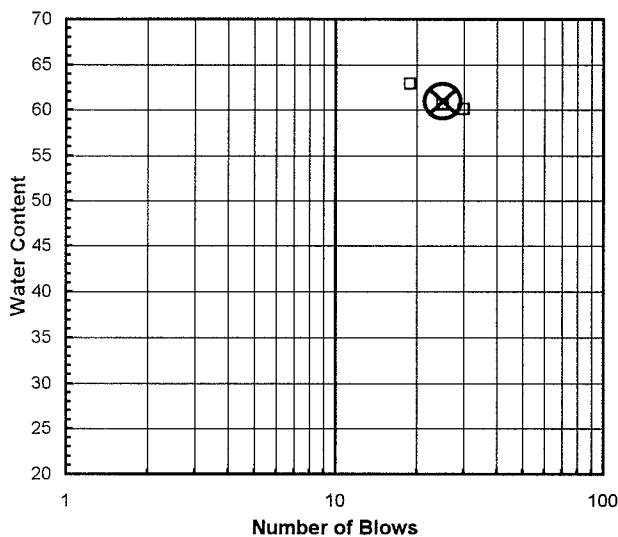
Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description.

Liquid Limit Test	1	2	3	
Tare Number	40A	70	225	M
Wt. of Tare & WS (gm)	37.22	36.67	40.17	U
Wt. of Tare & DS (gm)	29.79	29.11	32.22	L
Wt. of Tare (gm)	17.42	16.65	19.58	T
Wt. of Water (gm)	7.4	7.6	8.0	I
Wt. of DS (gm)	12.4	12.5	12.6	P
Moisture Content (%)	60.1	60.7	62.9	O
Number of Blows	30	25	19	I
				N
				T

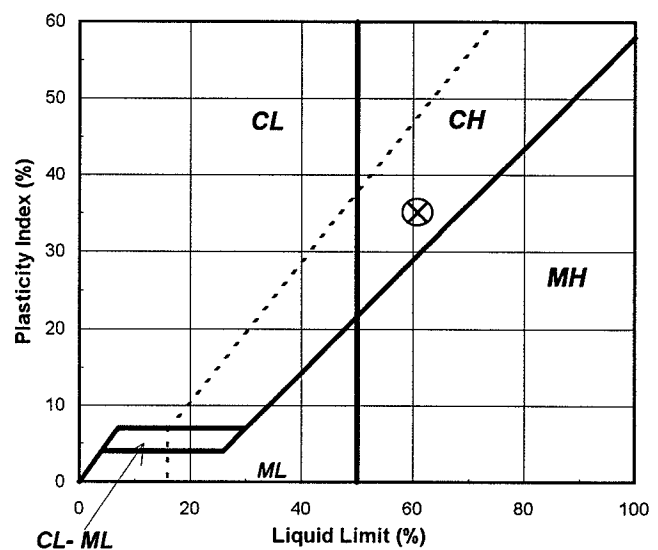
Plastic Limit Test	1	2	Range	Test Results	
Tare Number	43	53		Liquid Limit (%)	61
Wt. of Tare & WS (gm)	25.29	24.92		Plastic Limit (%)	26
Wt. of Tare & DS (gm)	23.99	23.66		Plasticity Index (%)	35
Wt. of Tare (gm)	19.01	18.82		USCS Symbol	CH
Wt. of Water (gm)	1.3	1.3			
Wt. of DS (gm)	5.0	4.8			
Moisture Content (%)	26.1	26.0	0.1		

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve



Plasticity Chart



Tested By JP Date 1/5/06 Checked By YJB Date 1-10-06

page 1 of 1 DCN: CT-S4B DATE: 10/8/01 REVISION: 2

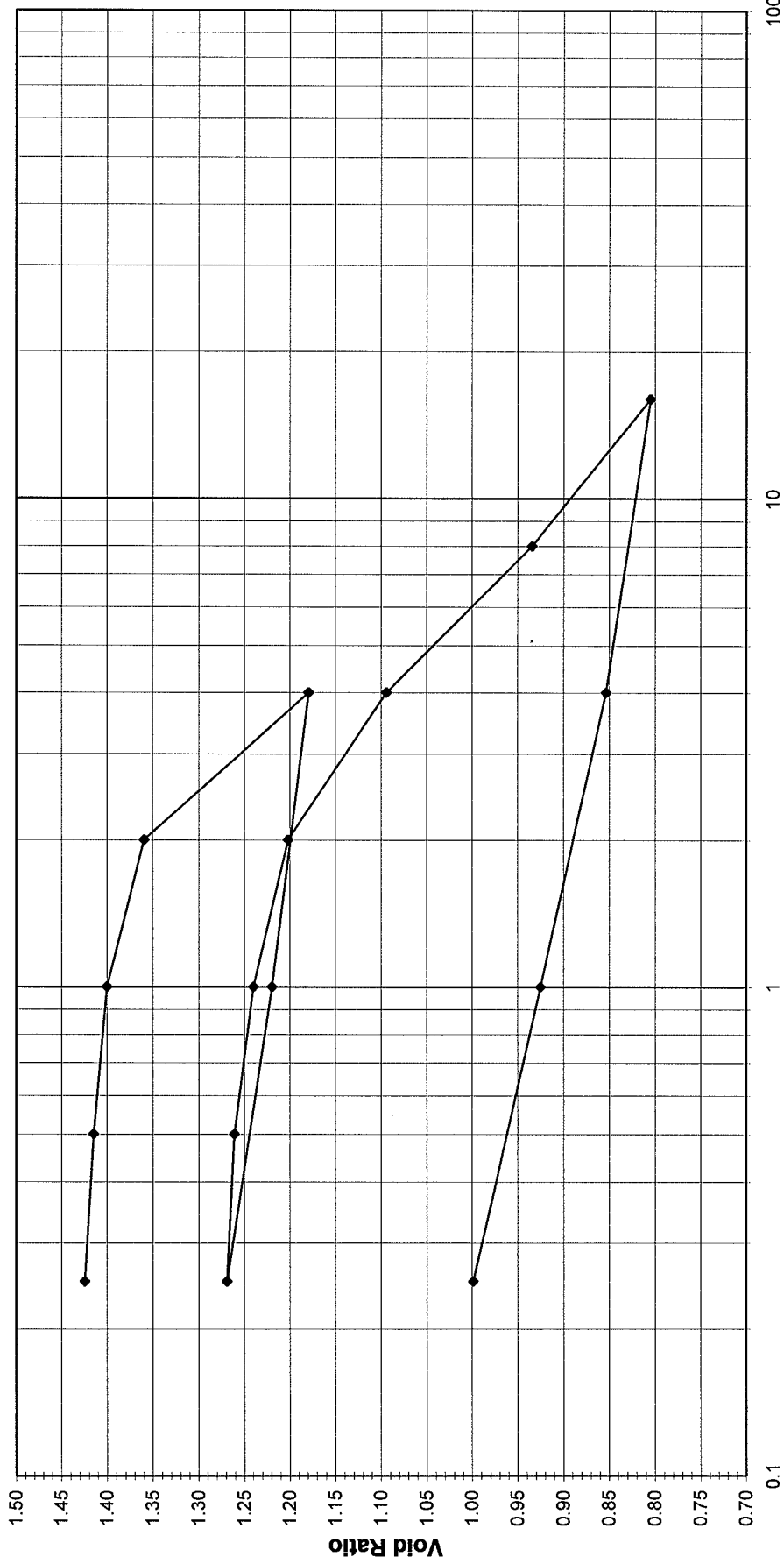


ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-04 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-207
Client Reference	GE PROCESSING FACILITY 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Visual Description	SOFT BROWNISH GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED





ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-04 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-207
Client Reference	GE PROCESSING FACILITY 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Visual Description	SOFT BROWNISH GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED

Consolidometer No. 2

1 Division = 0.0001 (in)

Sample Properties

	<u>Initial</u>	<u>Final</u>
<i>Water Content</i>		
Tare Number	T-16	1399
Wt. Tare & VVS (gm)	190.60	157.40
Wt. Tare & DS (gm)	157.31	123.60
Wt. Water (gm)	33.29	33.80
Wt. Tare (gm)	92.70	38.20
Wt. DS (gm)	64.61	85.40
Water Content (%)	51.52	39.58

Sample Parameters

Sample Diameter (in)	2.5	2.5
Sample Height (in)	1	0.821
Sample Volume (cc)	80.44	66.07
Wt. Wet Sample + Ring (gm)	280.01	269.35
Wt. of Ring (gm)	144.75	144.75
Wt. of Wet Sample (gm)	135.26	124.60
Wet Density (pcf)	104.93	117.67
Wet Density (g/cc)	1.68	1.89
Water Content (%)	51.52	39.58
Wt. of Dry Sample (gm)	89.27	89.27
Dry Density (pcf)	69.25	84.31
Dry Density (g/cc)	1.11	1.35
Void Ratio	1.4330	0.9984
Saturation (%)	97.08	107.03
Specific Gravity	2.70	Assumed

Test Data Summary

Applied Pressure (tsf)	Final Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	25.400	80.440	1.10973	1.43304
0.25	37.8	2.8	35.0	25.311	80.159	1.11362	1.42453
0.5	82.8	7.0	75.9	25.207	79.830	1.11821	1.41458
1	151.1	15.1	136.0	25.055	79.346	1.12502	1.39995
2	329.3	27.7	301.7	24.634	78.013	1.14424	1.35964
4	1084.1	39.4	1044.7	22.746	72.036	1.23918	1.17885
1	901.7	24.1	877.6	23.171	73.381	1.21648	1.21952
0.25	681.7	6.8	674.9	23.686	75.011	1.19004	1.26884
0.5	720.6	12.7	707.9	23.602	74.745	1.19427	1.26079
1	813.2	19.1	794.1	23.383	74.052	1.20545	1.23982
2	979.3	28.5	950.8	22.985	72.792	1.22633	1.20170
4	1432.7	39.3	1393.4	21.861	69.231	1.28939	1.09402
8	2101.8	51.5	2050.3	20.192	63.947	1.39594	0.93418
16	2645.8	63.6	2582.2	18.841	59.669	1.49602	0.80479
4	2429.9	46.8	2383.1	19.347	61.270	1.45693	0.85322
1	2110.1	22.9	2087.2	20.098	63.650	1.40245	0.92520
0.25	1796.6	10.3	1786.3	20.863	66.071	1.35106	0.99843

Tested By TM Date 12/22/05 Input Checked By GU Date 1/5/06

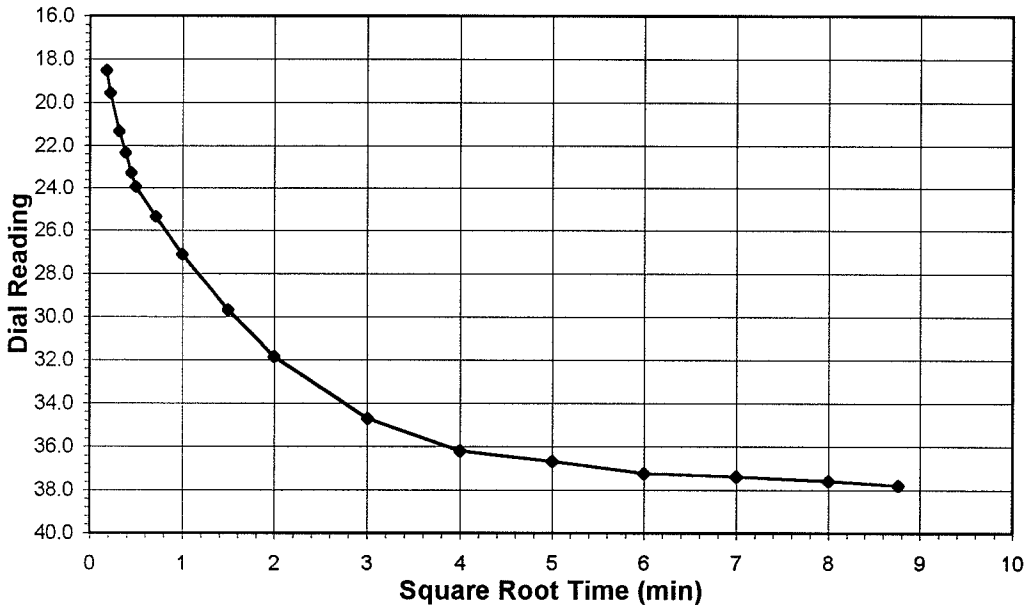


ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

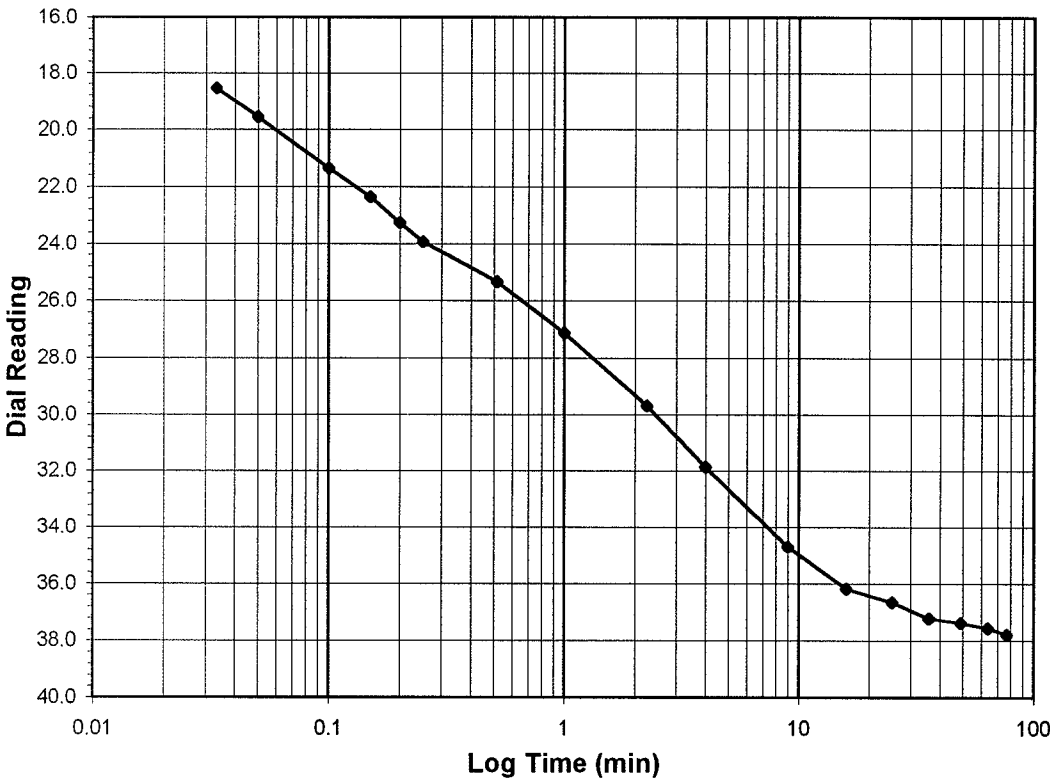
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-207
Client Project	GE PROCESSING FACILITY 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Visual Description	SOFT BROWNISH GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0-0.25
Final Reading (div)	37.8
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	12/22/05
Start Time	10:51:39

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>0.0</i>
0.03	18.5
0.05	19.6
0.10	21.3
0.15	22.4
0.20	23.3
0.25	23.9
0.52	25.3
1.00	27.1
2.25	29.7
4.00	31.9
9.02	34.7
16.00	36.2
25.00	36.7
36.00	37.2
49.00	37.4
64.00	37.6
76.75	37.8



Tested By **TM** Date **12/22/05** Checked By **GO** Date **1/5/06**

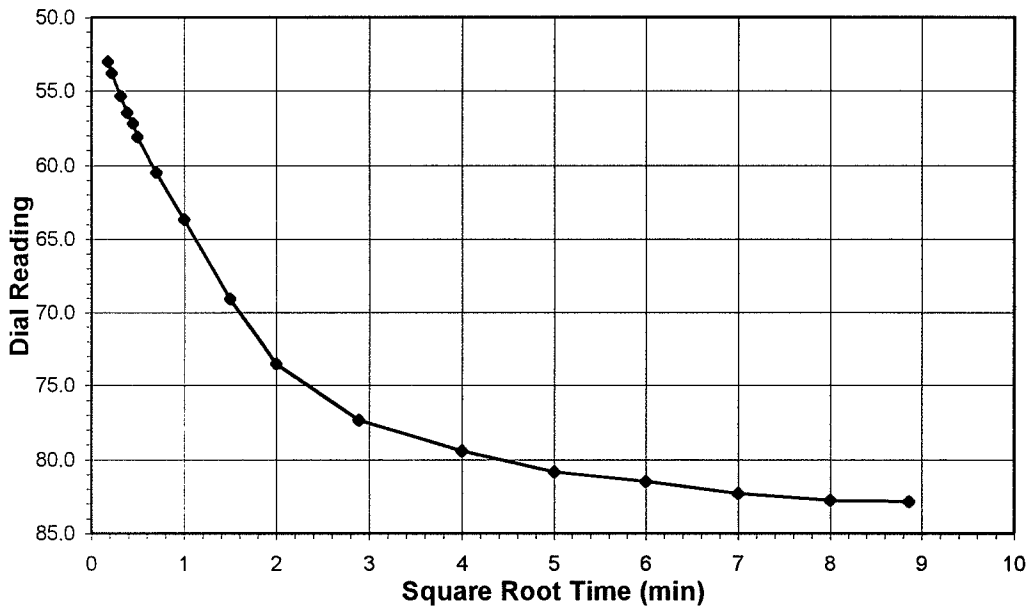


ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

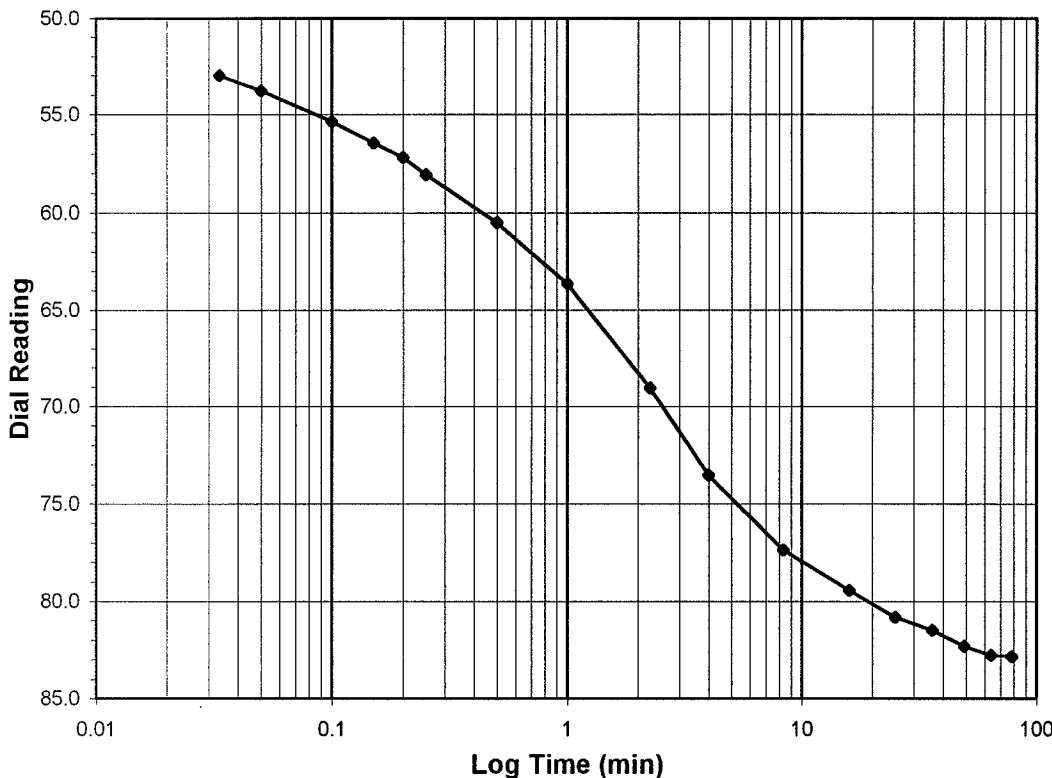
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-207
Client Project	GE PROCESSING FACILITY 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Visual Description	SOFT BROWNISH GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	82.8
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	12/22/05
Start Time	12:10:55

Elapsed Time (min)	Dial Reading (div)
Initial	37.8
0.03	53.0
0.05	53.8
0.10	55.4
0.15	56.4
0.20	57.2
0.25	58.1
0.50	60.5
1.00	63.7
2.25	69.0
4.00	73.5
8.33	77.4
16.00	79.4
25.00	80.8
36.02	81.5
49.00	82.3
64.00	82.8
78.47	82.8



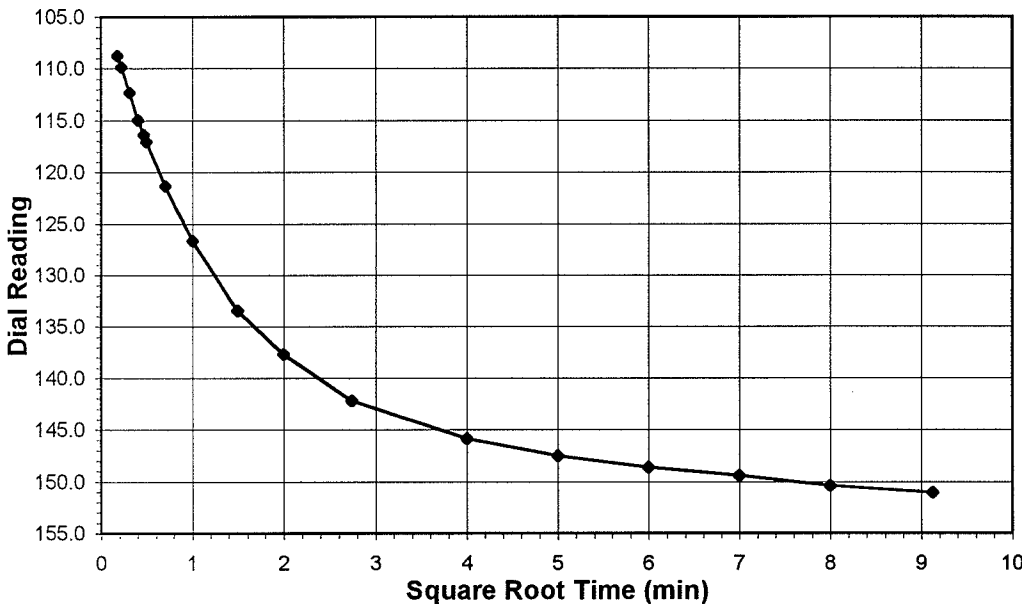
Tested By **TM** Date **12/22/05** Checked By **GU** Date **1/5/06**

ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

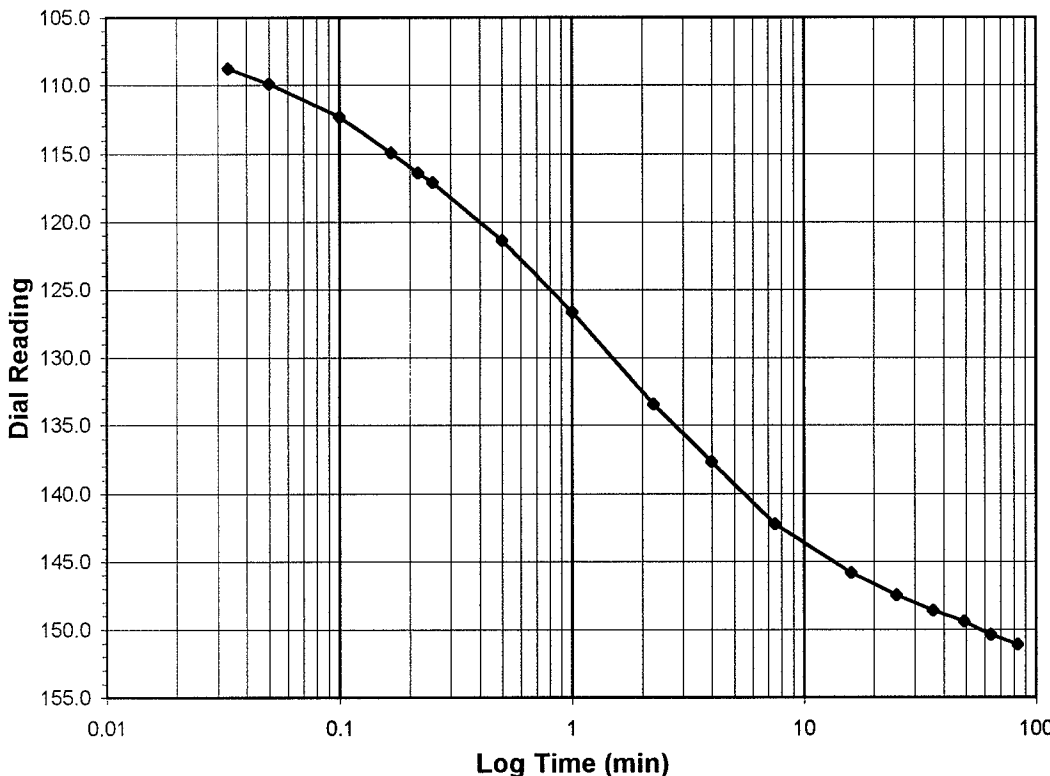
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-207
Client Project	GE PROCESSING FACILITY 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Visual Description	SOFT BROWNISH GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	151.1
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	12/22/05
Start Time	13:35:34

Elapsed Time (min)	Dial Reading (div)
Initial	82.8
0.03	108.7
0.05	109.9
0.10	112.3
0.17	114.9
0.22	116.4
0.25	117.1
0.50	121.3
1.00	126.7
2.25	133.4
4.00	137.7
7.52	142.2
16.00	145.8
25.00	147.5
36.00	148.6
49.00	149.4
64.00	150.4
83.22	151.1



Tested By TM Date 12/22/05 Checked By GU Date 1/5/06

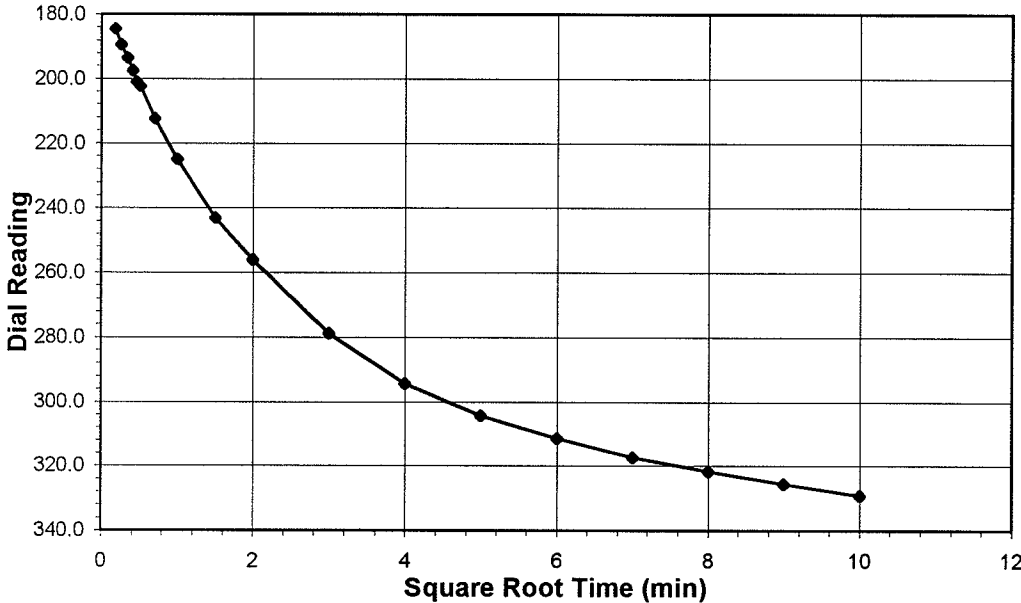


ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

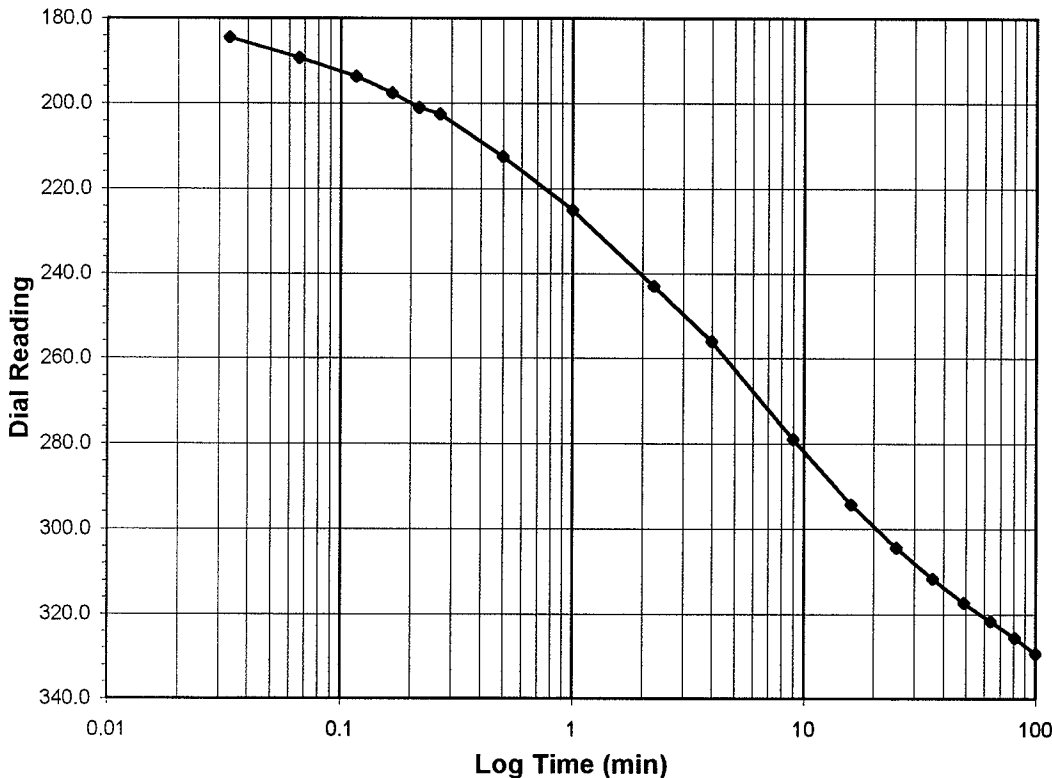
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-207
Client Project	GE PROCESSING FACILITY 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Visual Description	SOFT BROWNISH GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	329.3
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	12/23/05
Start Time	7:36:58

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>151.1</i>
0.03	184.6
0.07	189.4
0.12	193.6
0.17	197.6
0.22	201.0
0.27	202.5
0.50	212.5
1.00	225.0
2.25	243.0
4.00	256.1
8.98	278.9
16.00	294.3
25.00	304.4
36.00	311.6
49.00	317.4
64.00	321.7
81.00	325.6
100.00	329.3



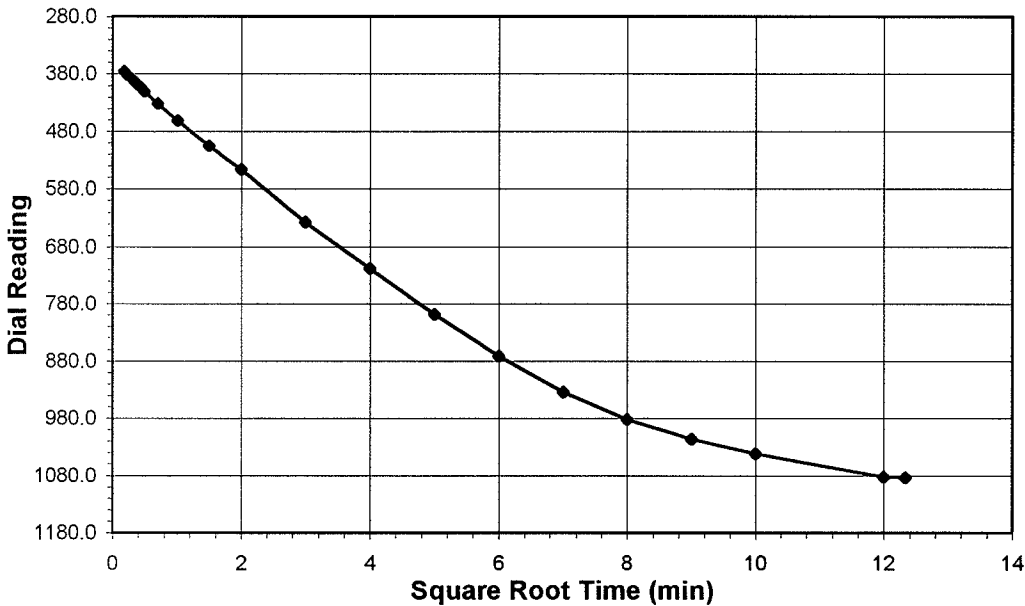
Tested By *TM* Date *12/23/05* Checked By *GU* Date *1/5/06*

ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

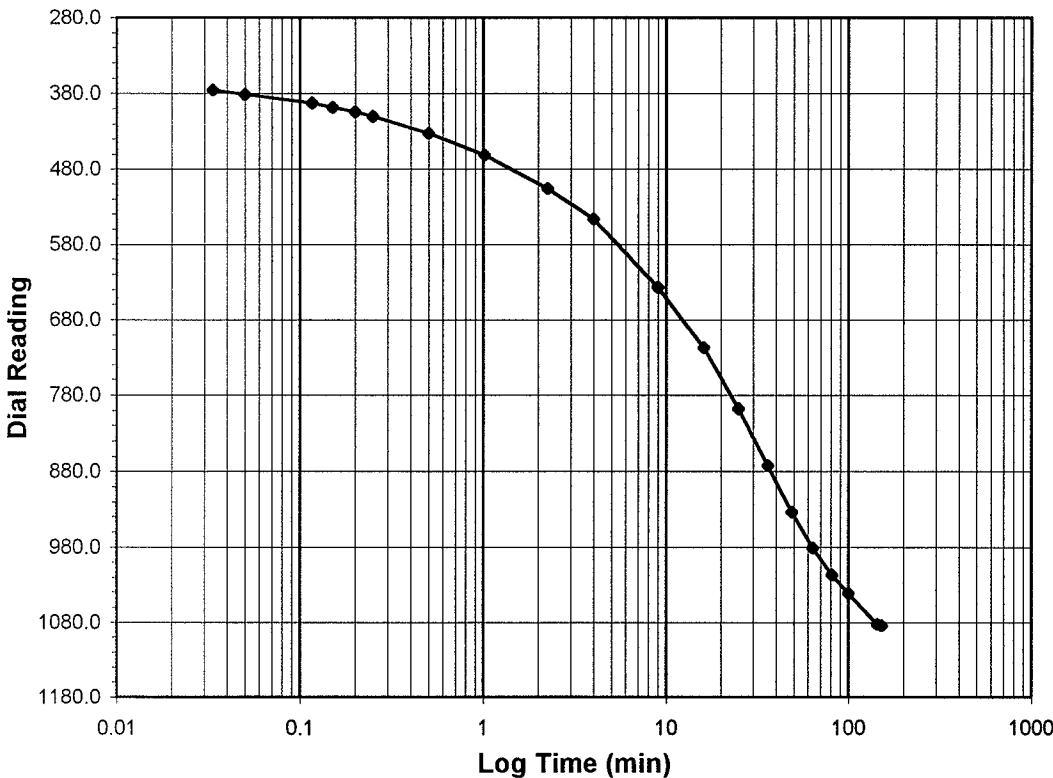
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-207
Client Project	GE PROCESSING FACILITY 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Visual Description	SOFT BROWNISH GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	(tsf)	2.0-4.0
Final Reading	(div)	1084.1
Consolidometer No.		2
1 Division	(in)	0.0001
Start Date		12/23/05
Start Time		9:26:29

Elapsed Time (min)	Dial Reading (div)
Initial	329.3
0.03	375.3
0.05	381.3
0.12	392.6
0.15	398.1
0.20	404.1
0.25	410.2
0.50	431.9
1.02	461.2
2.25	505.8
4.00	546.2
8.99	637.4
16.00	717.5
25.00	798.0
36.00	871.7
49.00	934.2
64.00	981.5
81.00	1016.8
100.00	1041.3
144.00	1082.5
152.05	1084.1



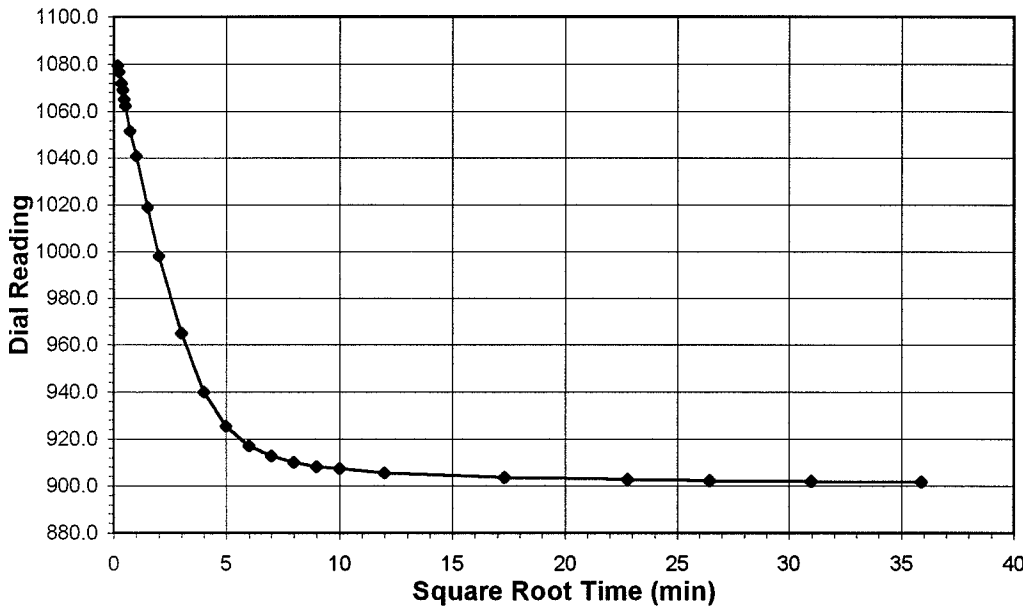
Tested By **TM** Date **12/23/05** Checked By **GO** Date **1/5/06**

ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

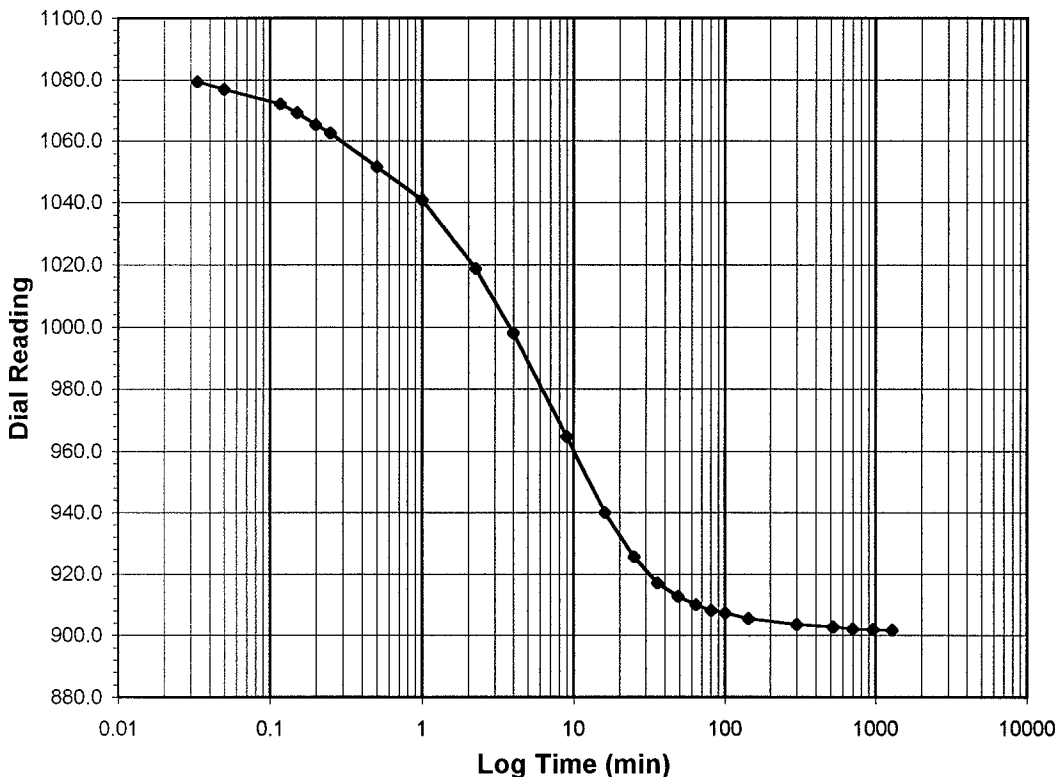
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-207
Client Project	GE PROCESSING FACILITY 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Visual Description	SOFT BROWNISH GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	(tsf)	4.0-1.0
Final Reading	(div)	901.7
Consolidometer No.		2
1 Division	(in)	0.0001
Start Date		12/23/05
Start Time		12:06:13

Elapsed Time (min)	Dial Reading (div)
Initial	1084.1
0.03	1079.4
0.05	1076.9
0.12	1072.0
0.15	1069.1
0.20	1065.2
0.25	1062.6
0.50	1051.6
1.00	1040.9
2.25	1018.8
4.00	998.0
9.02	964.8
16.00	940.0
25.00	925.5
36.00	917.1
49.00	912.6
64.00	910.0
81.00	908.2
100.00	907.2
144.00	905.5
300.00	903.6
520.00	902.8
700.00	902.2
960.02	901.9
1288.22	901.7



Tested By *TM* Date *12/23/05* Checked By *GO* Date *1/5/06*

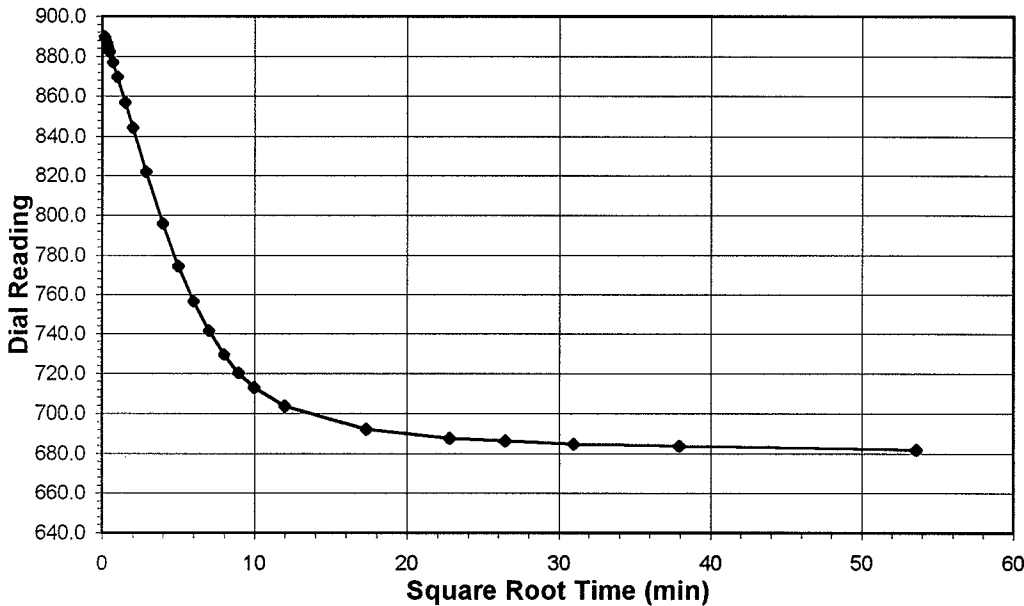


ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

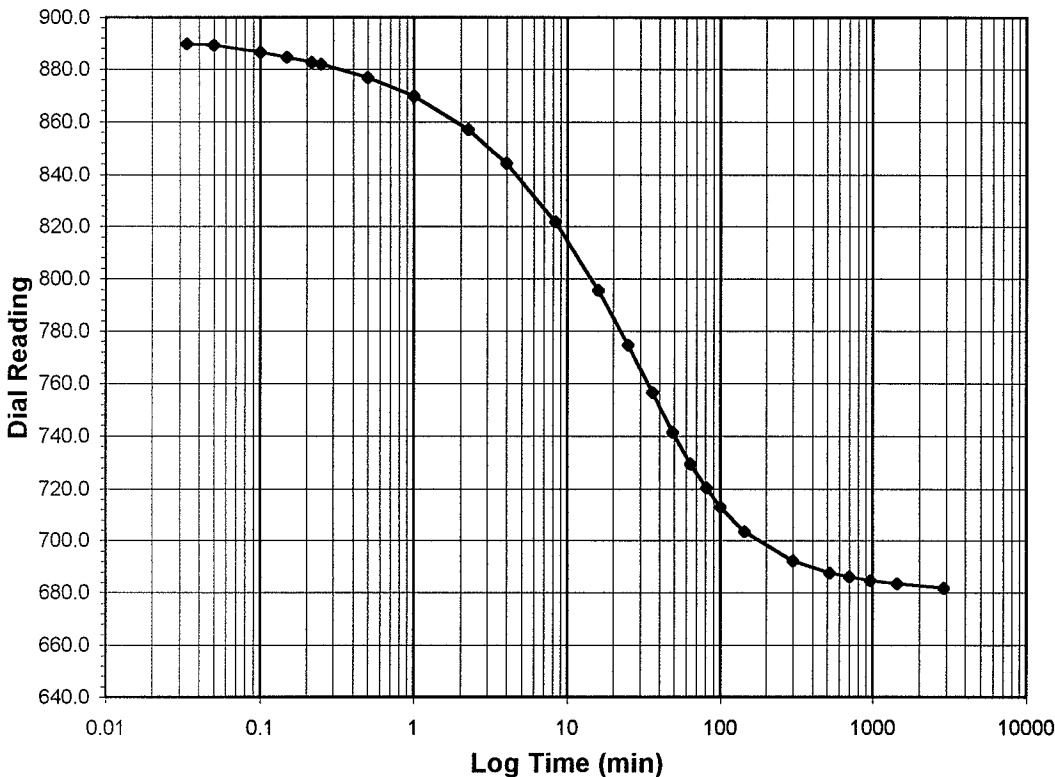
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-207
Client Project	GE PROCESSING FACILITY 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Visual Description	SOFT BROWNISH GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	681.7
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	12/24/05
Start Time	9:40:26

Elapsed Time (min)	Dial Reading (div)
Initial	901.7
0.03	889.8
0.05	889.2
0.10	886.7
0.15	884.7
0.22	882.8
0.25	882.0
0.50	876.9
1.00	869.6
2.25	857.0
4.00	844.4
8.33	821.9
16.00	795.7
25.00	774.6
36.00	756.4
49.00	741.5
64.00	729.5
81.00	720.3
100.00	713.0
144.00	703.5
300.00	692.2
520.00	687.6
700.00	686.2
960.00	684.8
1440.00	683.6
2873.88	681.7



Tested By *TM* Date *12/24/05* Checked By *GW* Date *1/5/06*

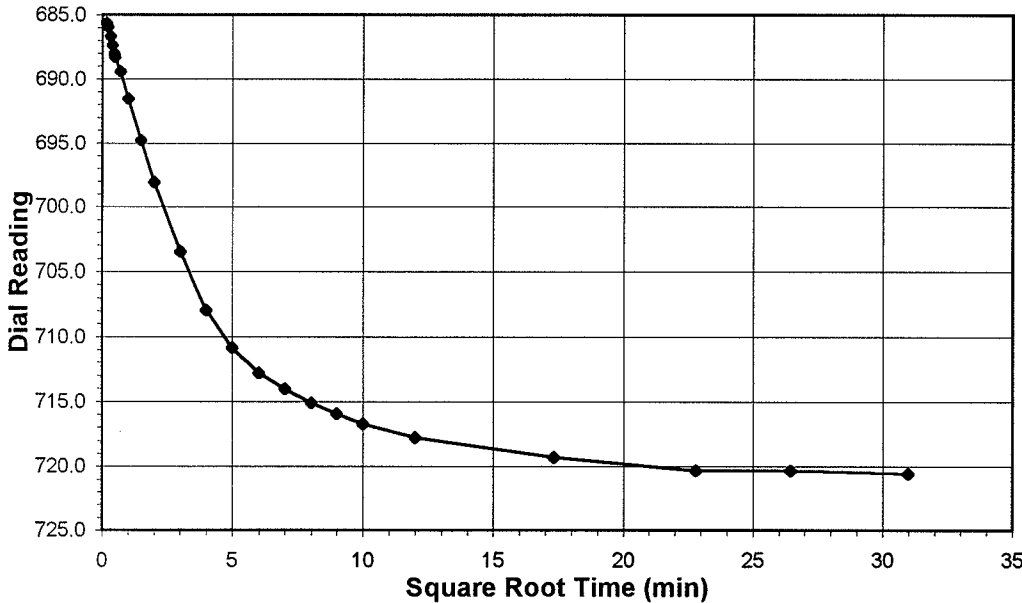


ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

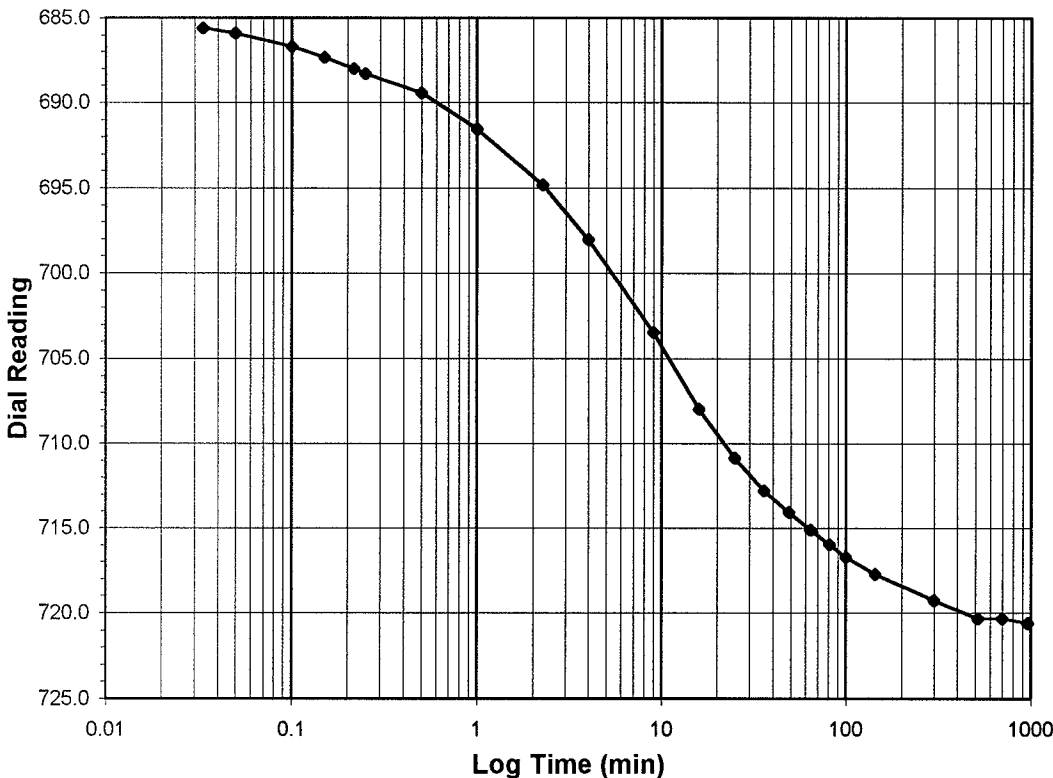
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-207
Client Project	GE PROCESSING FACILITY 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Visual Description	SOFT BROWNISH GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	720.6
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	12/26/05
Start Time	9:37:58

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	681.7
0.03	685.6
0.05	685.9
0.10	686.7
0.15	687.3
0.22	688.0
0.25	688.3
0.50	689.4
1.00	691.5
2.25	694.8
4.00	698.1
9.02	703.5
16.00	708.0
25.00	710.9
36.00	712.8
49.00	714.1
64.00	715.1
81.00	716.0
100.00	716.7
144.00	717.8
300.00	719.3
520.00	720.3
700.00	720.3
960.00	720.6



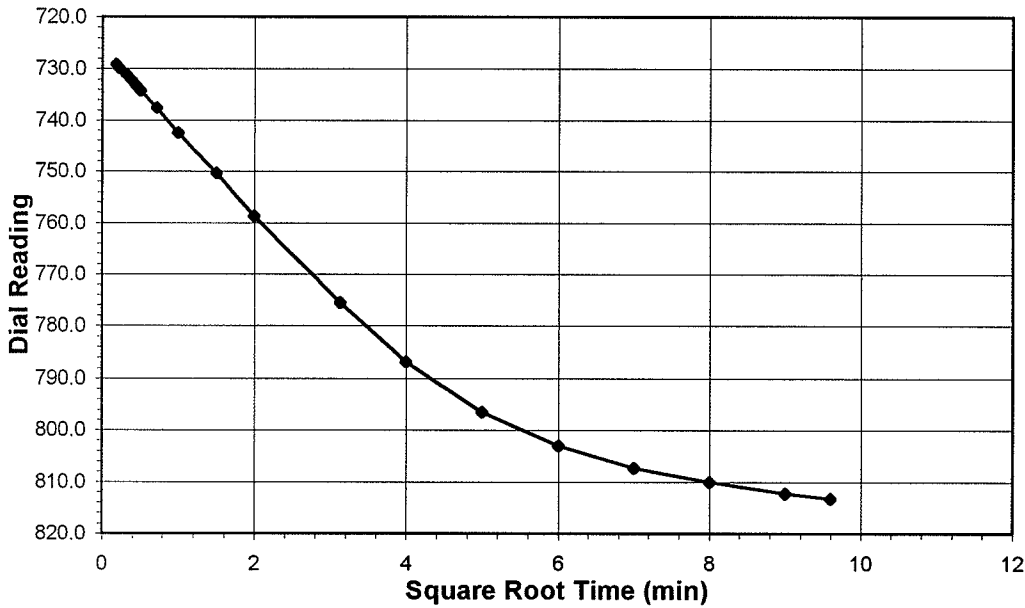
Tested By **TM** Date **12/26/05** Checked By **GU** Date **1/5/06**



ONE DIMENSIONAL CONSOLIDATION
ASTM D 2435-90 (SOP-S24A)

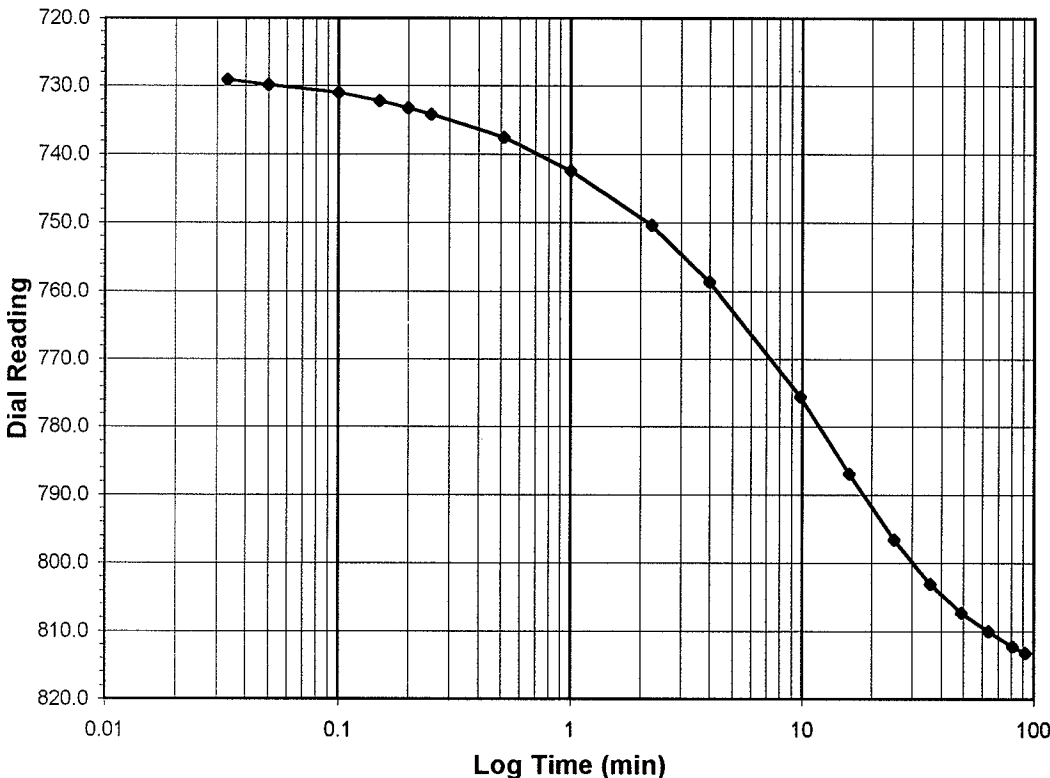
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-207
Client Project	GE PROCESSING FACILITY 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Visual Description	SOFT BROWNISH GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	813.2
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	12/27/05
Start Time	7:45:27

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	720.6
0.03	729.2
0.05	729.9
0.10	731.0
0.15	732.2
0.20	733.2
0.25	734.2
0.52	737.6
1.00	742.4
2.25	750.3
4.00	758.7
9.81	775.6
16.00	786.9
25.00	796.6
36.00	803.1
49.00	807.3
64.00	810.1
81.00	812.3
92.18	813.2



Tested By **TM** Date **12/27/05** Checked By **GO** Date **1/5/06**

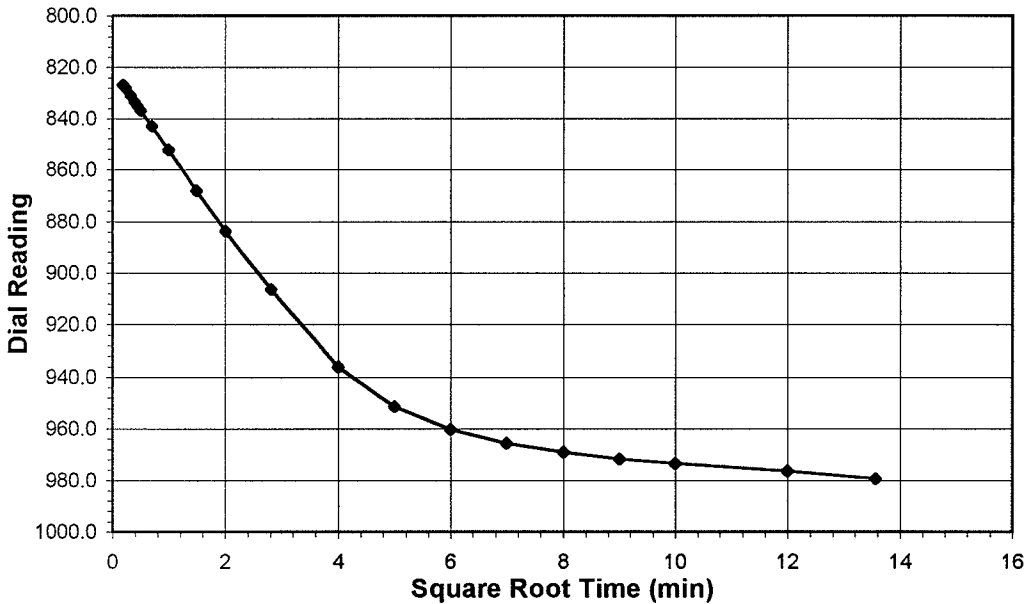


ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

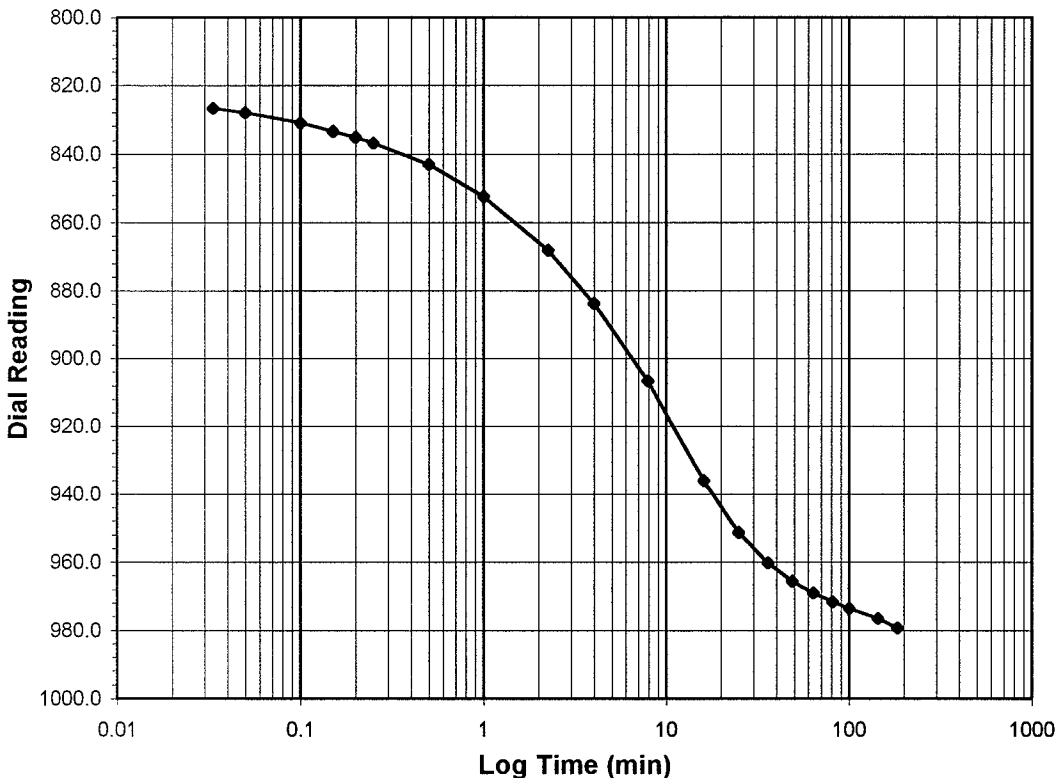
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-207
Client Project	GE PROCESSING FACILITY 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Visual Description	SOFT BROWNISH GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	979.3
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	12/27/05
Start Time	9:24:38

Elapsed Time (min)	Dial Reading (div)
Initial	813.2
0.03	826.7
0.05	827.9
0.10	831.0
0.15	833.5
0.20	835.1
0.25	836.9
0.50	843.0
1.00	852.4
2.25	868.1
4.02	883.8
7.89	906.5
16.00	936.1
25.00	951.3
36.00	960.2
49.00	965.5
64.00	969.0
81.00	971.7
100.00	973.6
144.00	976.5
184.00	979.3



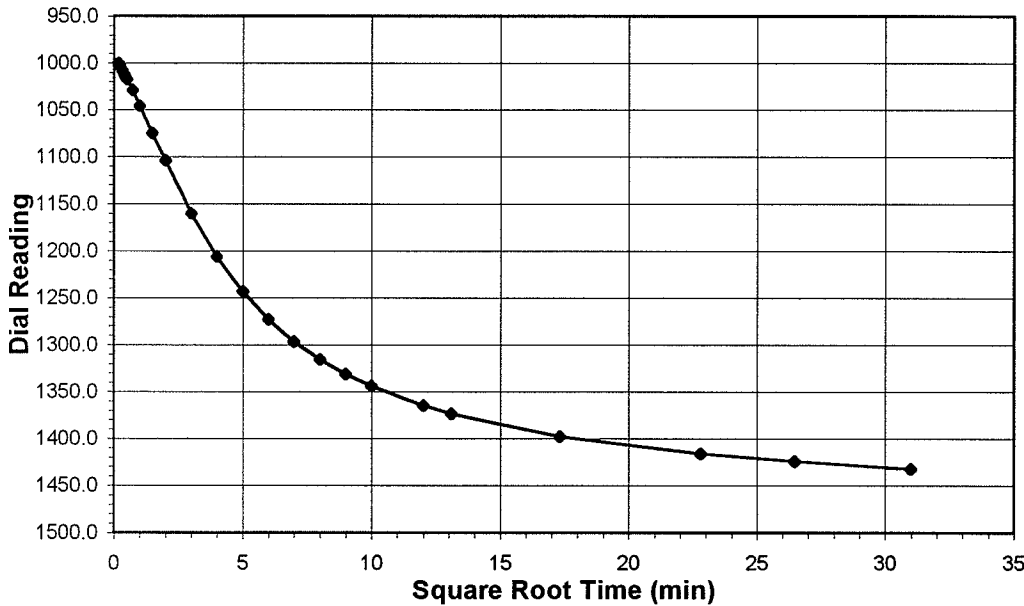
Tested By **TM** Date **12/27/05** Checked By **GO** Date **1/5/06**

ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

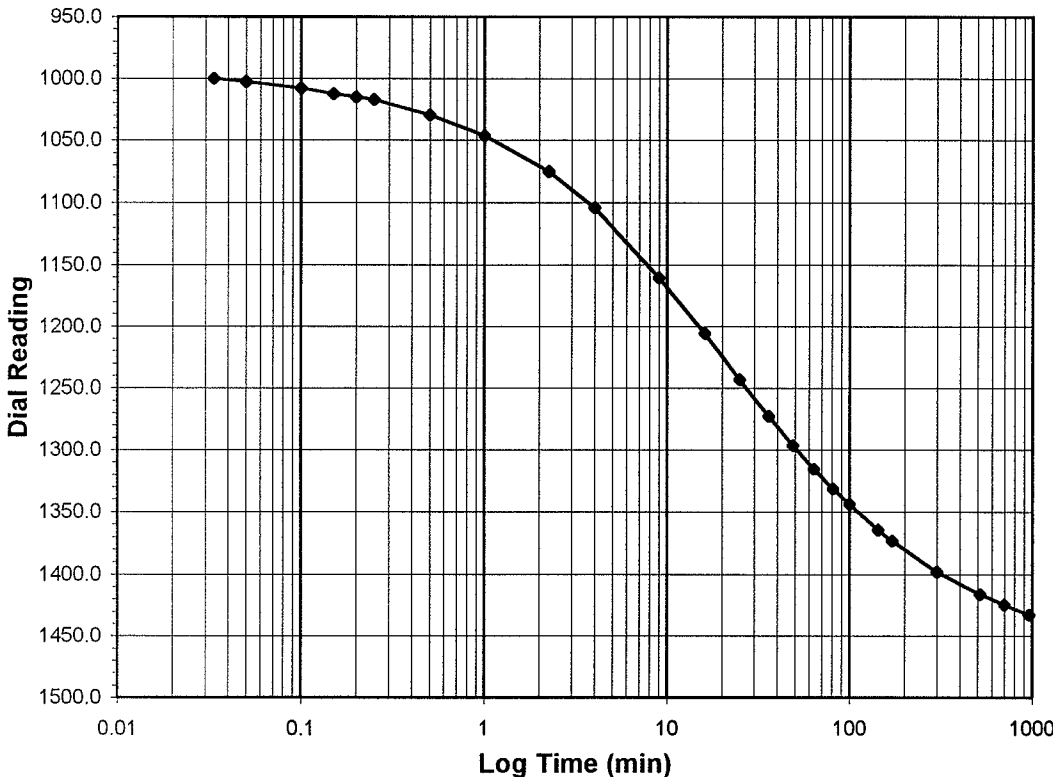
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-207
Client Project	GE PROCESSING FACILITY 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Visual Description	SOFT BROWNISH GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	1432.7
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	12/27/05
Start Time	12:35:29

Elapsed Time (min)	Dial Reading (div)
Initial	979.3
0.03	1000.3
0.05	1002.7
0.10	1008.1
0.15	1012.3
0.20	1015.2
0.25	1017.3
0.50	1029.4
1.00	1046.3
2.25	1075.2
4.00	1104.1
9.02	1160.4
16.00	1205.8
25.00	1243.2
36.00	1272.7
49.00	1296.5
64.00	1315.7
81.00	1331.4
100.00	1344.1
144.00	1364.6
171.38	1373.6
300.00	1398.0
520.00	1416.2
700.00	1424.6
960.00	1432.7



Tested By **TM** Date **12/27/05** Checked By **GO** Date **1/5/06**

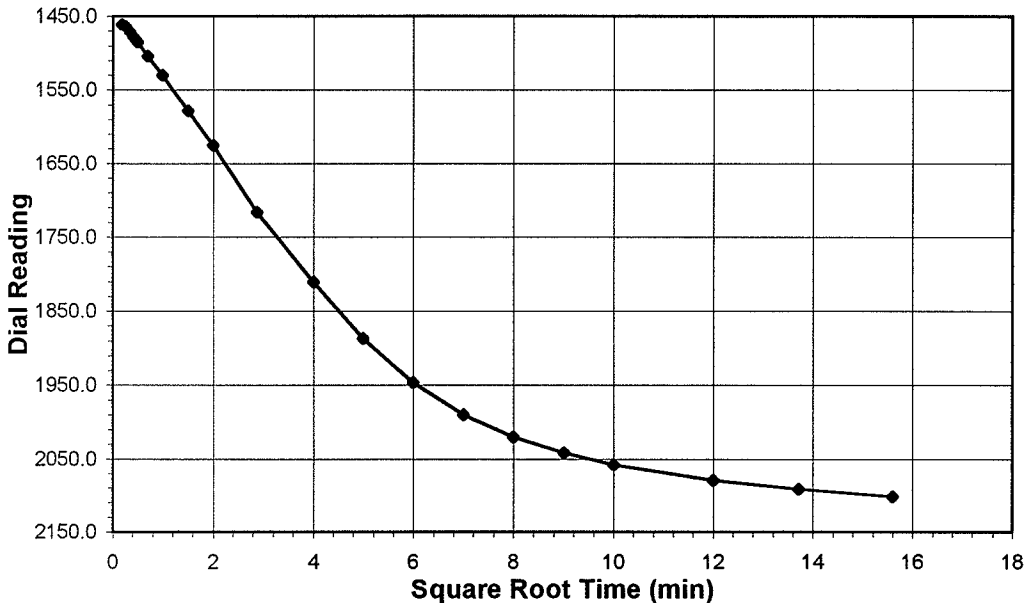


ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

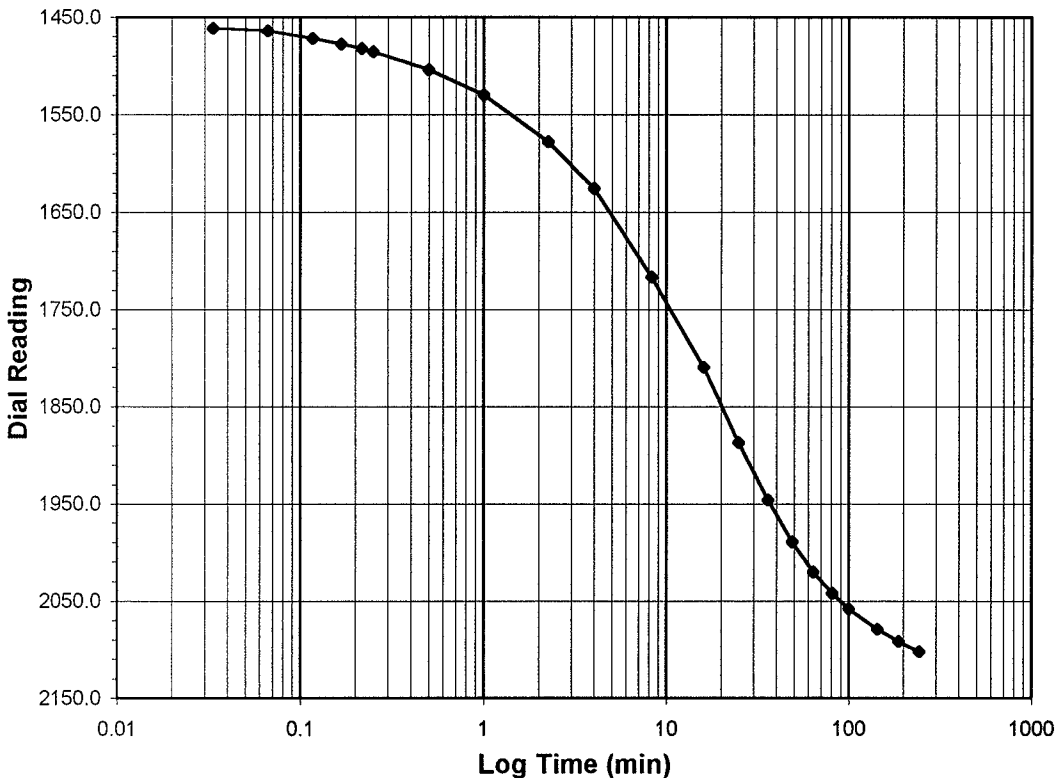
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-207
Client Project	GE PROCESSING FACILITY 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Visual Description	SOFT BROWNISH GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-8.0
Final Reading (div)	2101.8
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	12/28/05
Start Time	7:40:25

Elapsed Time (min)	Dial Reading (div)
Initial	1432.7
0.03	1460.9
0.07	1464.1
0.12	1471.7
0.17	1477.6
0.22	1482.0
0.25	1485.3
0.50	1503.9
1.00	1529.6
2.25	1577.9
4.00	1625.8
8.33	1716.3
16.00	1810.1
25.00	1886.5
36.00	1946.1
49.00	1989.7
64.00	2020.4
81.00	2042.0
100.00	2057.9
144.00	2079.1
188.10	2091.5
243.45	2101.8



Tested By **TM** Date **12/28/05** Checked By **GO** Date **1/5/06**

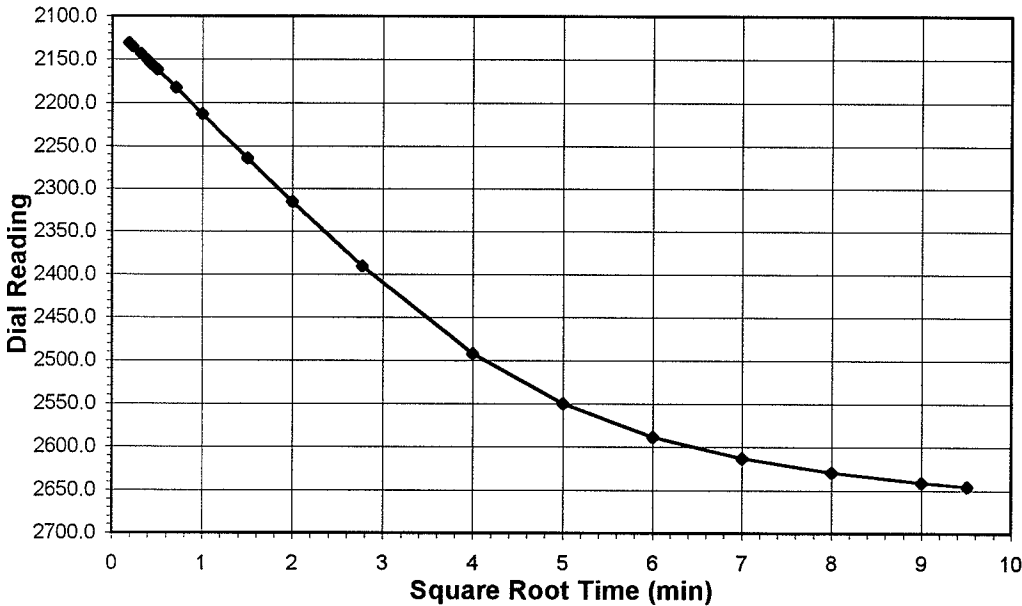


ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

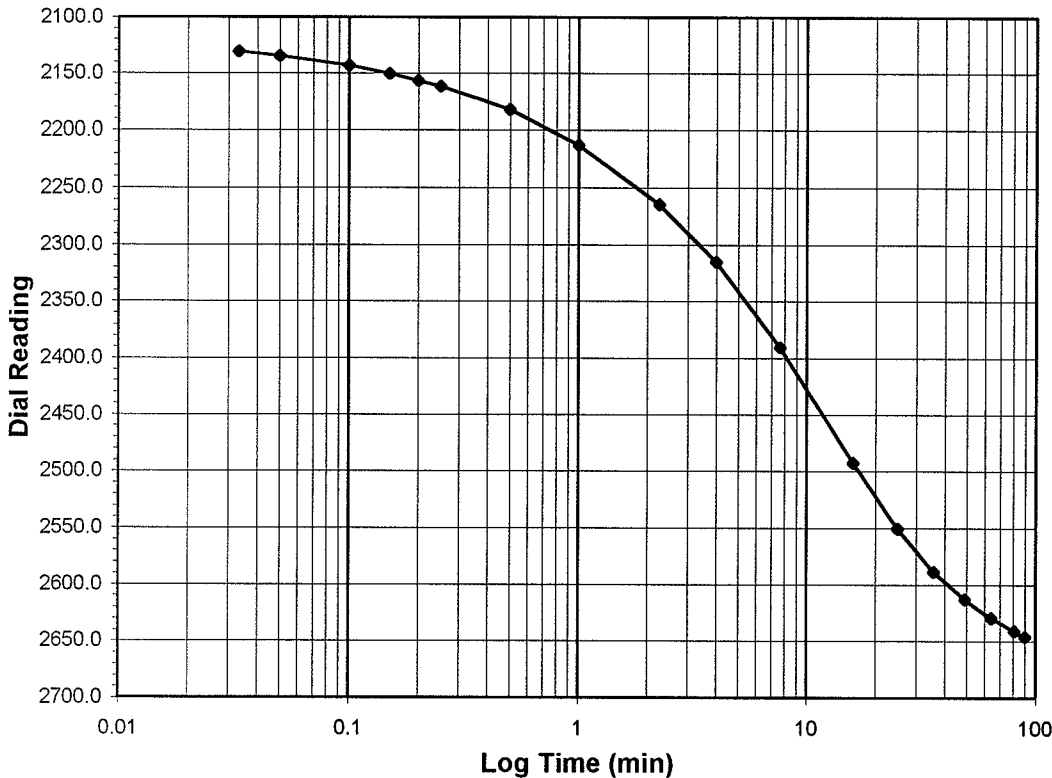
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-207
Client Project	GE PROCESSING FACILITY 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Visual Description	SOFT BROWNISH GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	8.0-16.0
Final Reading (div)	2645.8
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	12/28/05
Start Time	11:50:26

Elapsed Time (min)	Dial Reading (div)
Initial	2101.8
0.03	2130.9
0.05	2135.1
0.10	2143.2
0.15	2150.5
0.20	2157.0
0.25	2161.8
0.50	2182.2
1.00	2212.7
2.25	2264.6
4.00	2315.4
7.67	2390.6
16.00	2492.3
25.00	2550.7
36.00	2588.7
49.02	2613.1
64.00	2629.3
81.00	2640.9
90.50	2645.8



Tested By **TM** Date **12/28/05** Checked By **GU** Date **1/5/06**

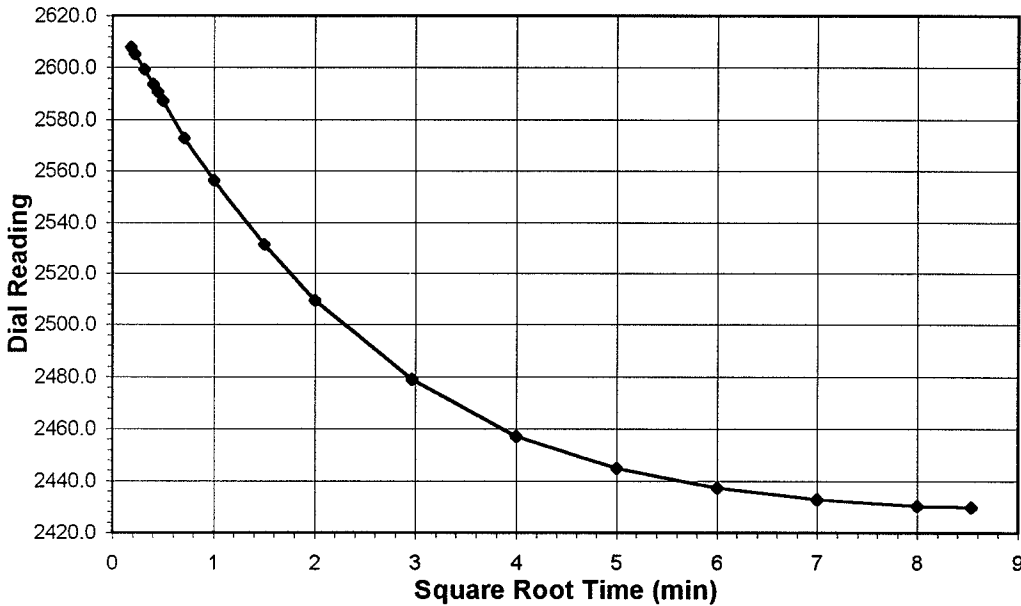


ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

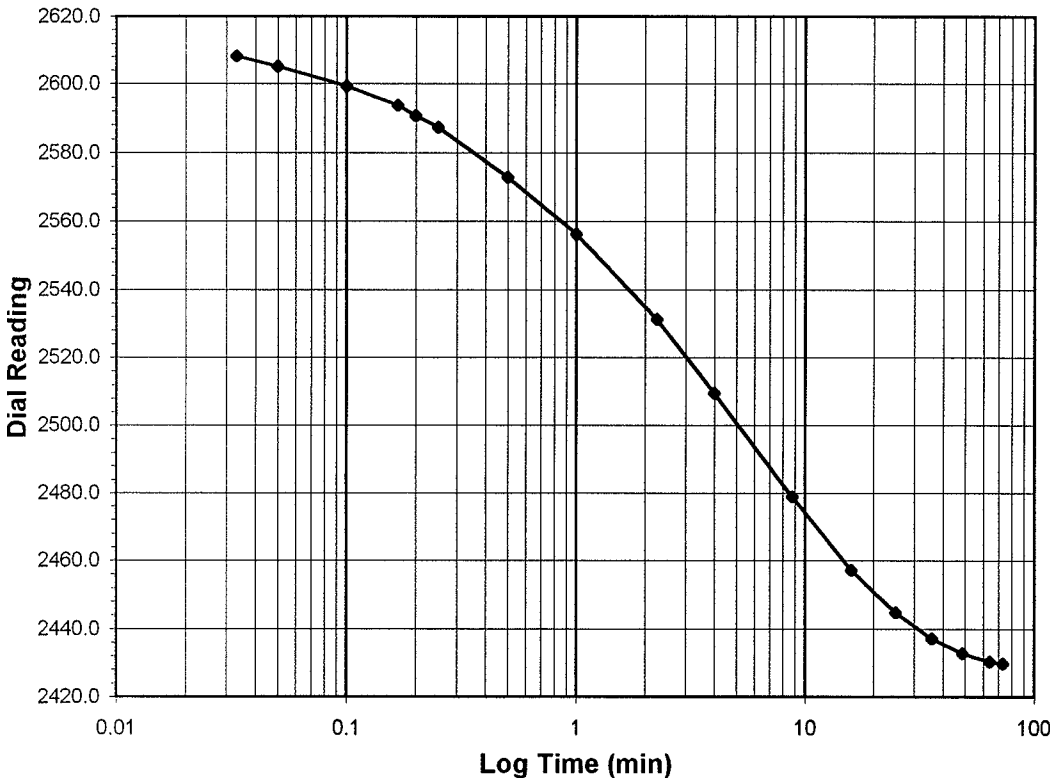
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-207
Client Project	GE PROCESSING FACILITY 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Visual Description	SOFT BROWNISH GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	16.0-4.0
Final Reading (div)	2429.9
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	12/28/05
Start Time	13:26:06

Elapsed Time (min)	Dial Reading (div)
Initial	2645.8
0.03	2608.1
0.05	2605.2
0.10	2599.4
0.17	2593.8
0.20	2590.7
0.25	2587.3
0.50	2572.9
1.00	2556.3
2.25	2531.2
4.00	2509.4
8.82	2478.9
16.00	2457.2
25.00	2444.9
36.00	2437.2
49.00	2432.9
64.00	2430.4
72.88	2429.9



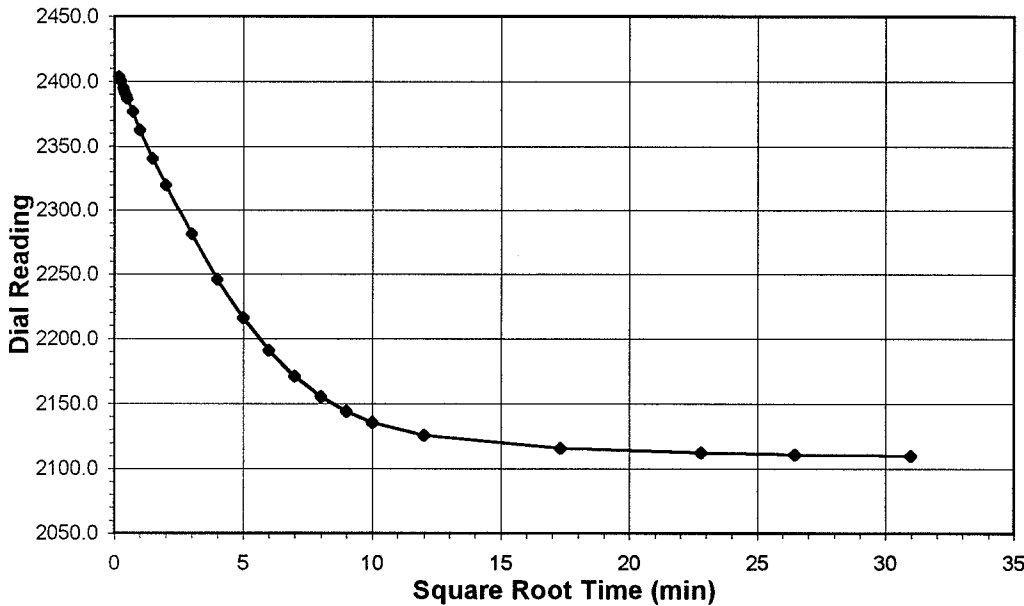
Tested By **TM** Date **12/28/05** Checked By **GU** Date **1/5/06**

ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

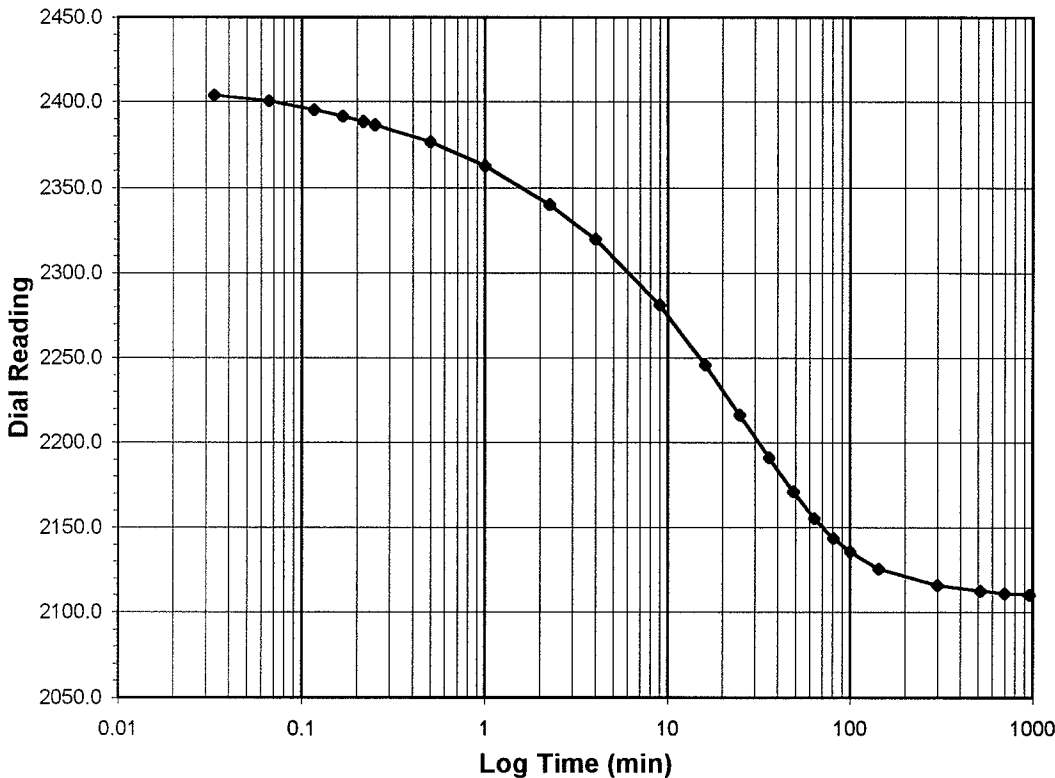
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-207
Client Project	GE PROCESSING FACILITY 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Visual Description	SOFT BROWNISH GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	(tsf)	4.0-1.0
Final Reading	(div)	2110.1
Consolidometer No.		2
1 Division	(in)	0.0001
Start Date		12/28/05
Start Time		14:41:09

Elapsed Time (min)	Dial Reading (div)
Initial	2429.9
0.03	2403.8
0.07	2400.3
0.12	2395.2
0.17	2391.3
0.22	2388.5
0.25	2386.6
0.50	2376.7
1.00	2362.6
2.25	2340.3
4.00	2319.8
9.02	2281.4
16.00	2245.8
25.00	2216.1
36.00	2191.1
49.00	2170.9
64.00	2155.2
81.00	2143.6
100.00	2135.7
144.00	2125.7
300.00	2115.8
520.00	2112.5
700.00	2110.9
960.00	2110.1



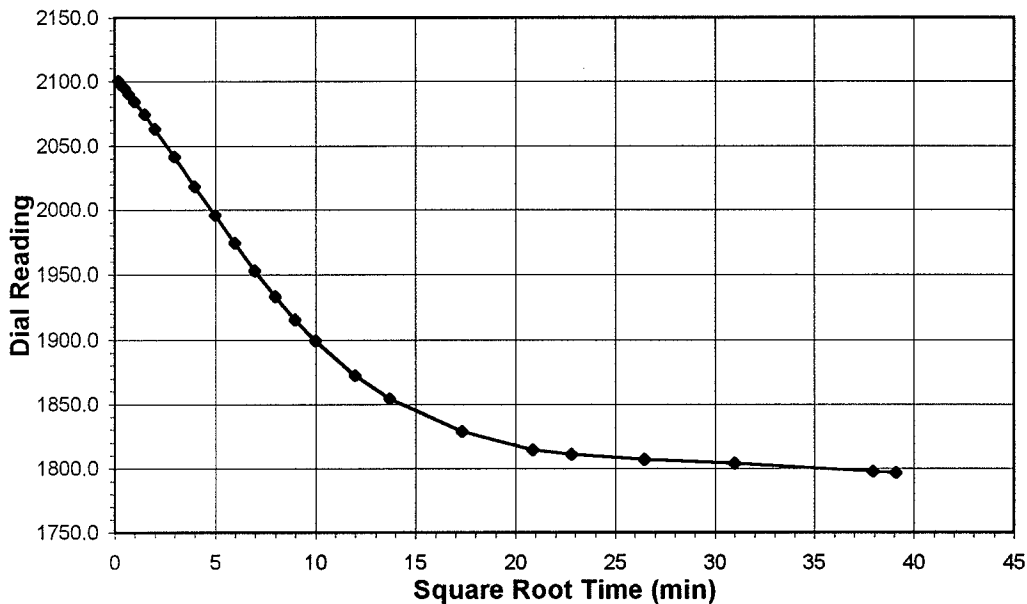
Tested By **TM** Date **12/28/05** Checked By **GU** Date **1/16/06**

ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

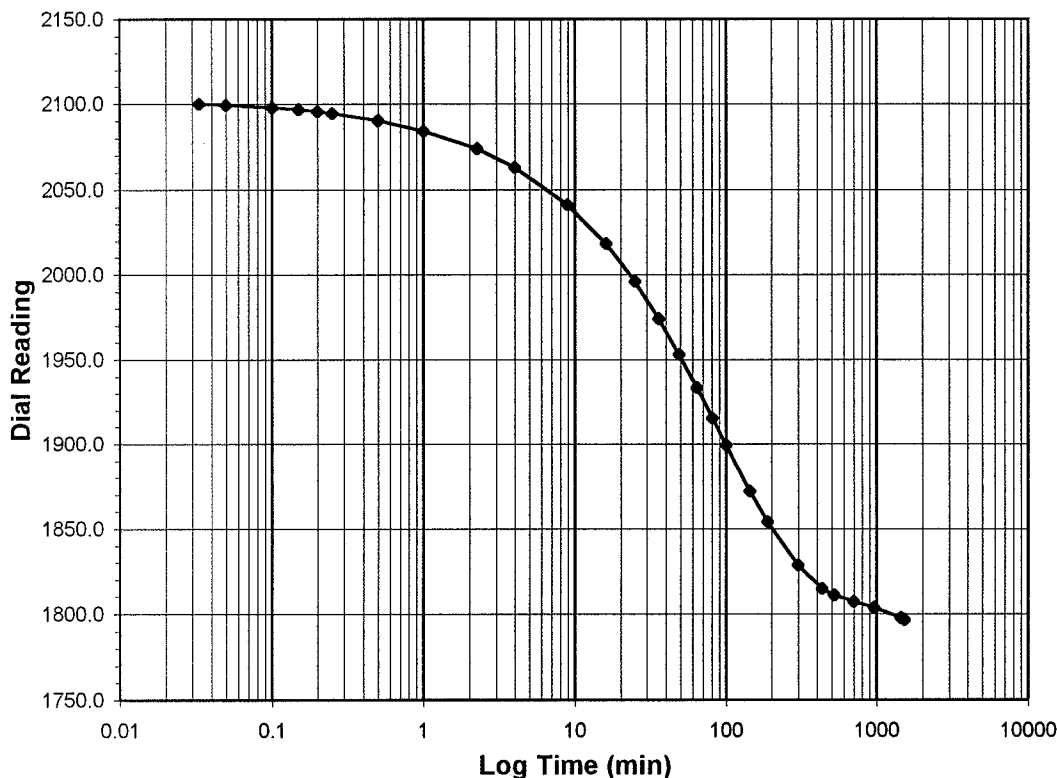
Client	BLASLAND, BOUCK, & LEE	Boring No.	GT-207
Client Project	GE PROCESSING FACILITY 20430	Depth (ft)	25.4-25.8
Project No.	2005-329-06	Sample No.	NA
Lab ID	2005-329-06-02	Visual Description	SOFT BROWNISH GRAY CLAY

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	1796.6
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	12/29/05
Start Time	7:47:12

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	2110.1
0.03	2100.2
0.05	2099.4
0.10	2097.6
0.15	2096.6
0.20	2095.6
0.25	2094.4
0.50	2090.2
1.00	2084.3
2.25	2074.1
4.00	2063.2
8.89	2041.2
16.00	2018.4
25.00	1995.9
36.00	1974.1
49.00	1953.1
64.00	1933.5
81.00	1915.4
100.00	1899.3
144.00	1872.3
188.27	1854.2
300.00	1828.7
434.45	1814.6
520.00	1811.0
700.00	1807.1
960.00	1803.9
1440.00	1797.6
1530.03	1796.6



Tested By **TM** Date **12/29/05** Checked By **GW** Date **1/16/06**

SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-209
Client Reference	GE Processing Facility 20430.011	Depth (ft)	2-4
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-08	Soil Color	BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol	<i>sp, ASSUMED</i>	D60 =	0.3	CC =	0.8
USCS Classification	POORLY GRADED SAND	D30 =	0.2	CU =	2.3
	UNABLE TO RUN HYDROMETER	D10 =	0.1		

Tested By **BE** Date **10/6/05** Checked By **KYB** Date **10-10-05**



WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	GT-209
Client Reference	GE Processing Facility 20430.011	Depth (ft)	2-4
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-08	Soil Color	BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	686	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	506.60	Wgt. Tare + Wet Specimen (gm)	NA
Wgt. Tare + Dry Specimen (gm)	478.10	Wgt. Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	98.14	Weight of Tare (gm)	NA
Weight of Water (gm)	28.50	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	379.96	Weight of Dry Soil (gm)	NA
Moisture Content (%)	7.5	Moisture Content (%)	NA

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	379.96
Dry Weight - 3/4" Sample (gm)	368.9	Weight of minus #200 material (gm)	11.02
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	368.94
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.00	0.00	100.00	100.00
6"	150	0.00	0.00	0.00	100.00	100.00
3"	75	0.00	0.00	0.00	100.00	100.00
2"	50	0.00	0.00	0.00	100.00	100.00
1 1/2"	37.5	0.00	0.00	0.00	100.00	100.00
1"	25.0	0.00	0.00	0.00	100.00	100.00
3/4"	19.0	0.00	0.00	0.00	100.00	100.00
1/2"	12.50	0.00	0.00	0.00	100.00	100.00
3/8"	9.50	0.00	0.00	0.00	100.00	100.00
#4	4.75	0.23	0.06	0.06	99.94	99.94
#10	2.00	0.68	0.18	0.24	99.76	99.76
#20	0.850	5.50	1.45	1.69	98.31	98.31
#40	0.425	45.05	11.86	13.54	86.46	86.46
#60	0.250	106.13	27.93	41.48	58.52	58.52
#140	0.106	196.33	51.67	93.15	6.85	6.85
#200	0.075	15.02	3.95	97.10	2.90	2.90
Pan	-	11.02	2.90	100.00	-	-

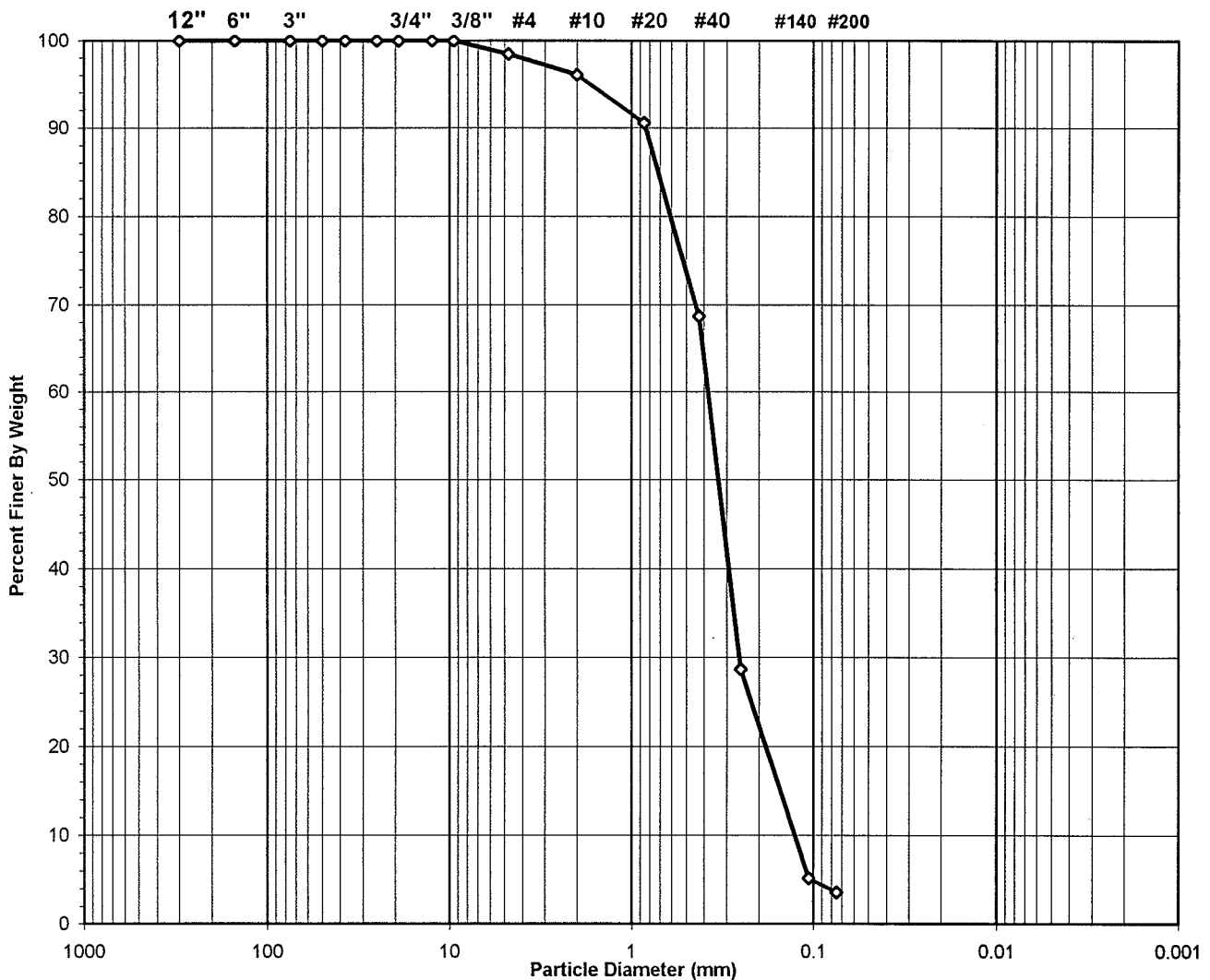
Tested By BE Date 10/6/05 Checked By *YAB* Date 10-10-05



SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK AND LEE	Boring No.	GT-209
Client Reference	GE Processing Facility 20430.011	Depth (ft)	10-12
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-09	Soil Color	BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol	<i>sp, ASSUMED</i>	D60 =	0.4	CC =	1.4
USCS Classification	POORLY GRADED SAND	D30 =	0.3	CU =	3.0
	UNABLE TO RUN HYDROMETER	D10 =	0.1		

Tested By **BE** Date **10/6/05** Checked By **KB** Date **10-11-05**



WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK AND LEE	Boring No.	GT-209
Client Reference	GE Processing Facility 20430.011	Depth (ft)	10-12
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-09	Soil Color	BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	697	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	648.10	Wgt. Tare + Wet Specimen (gm)	NA
Wgt. Tare + Dry Specimen (gm)	466.90	Wgt. Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	101.73	Weight of Tare (gm)	NA
Weight of Water (gm)	181.20	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	365.17	Weight of Dry Soil (gm)	NA
Moisture Content (%)	49.6	Moisture Content (%)	NA

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	365.17
Dry Weight - 3/4" Sample (gm)	352.0	Weight of minus #200 material (gm)	13.20
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	351.97
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

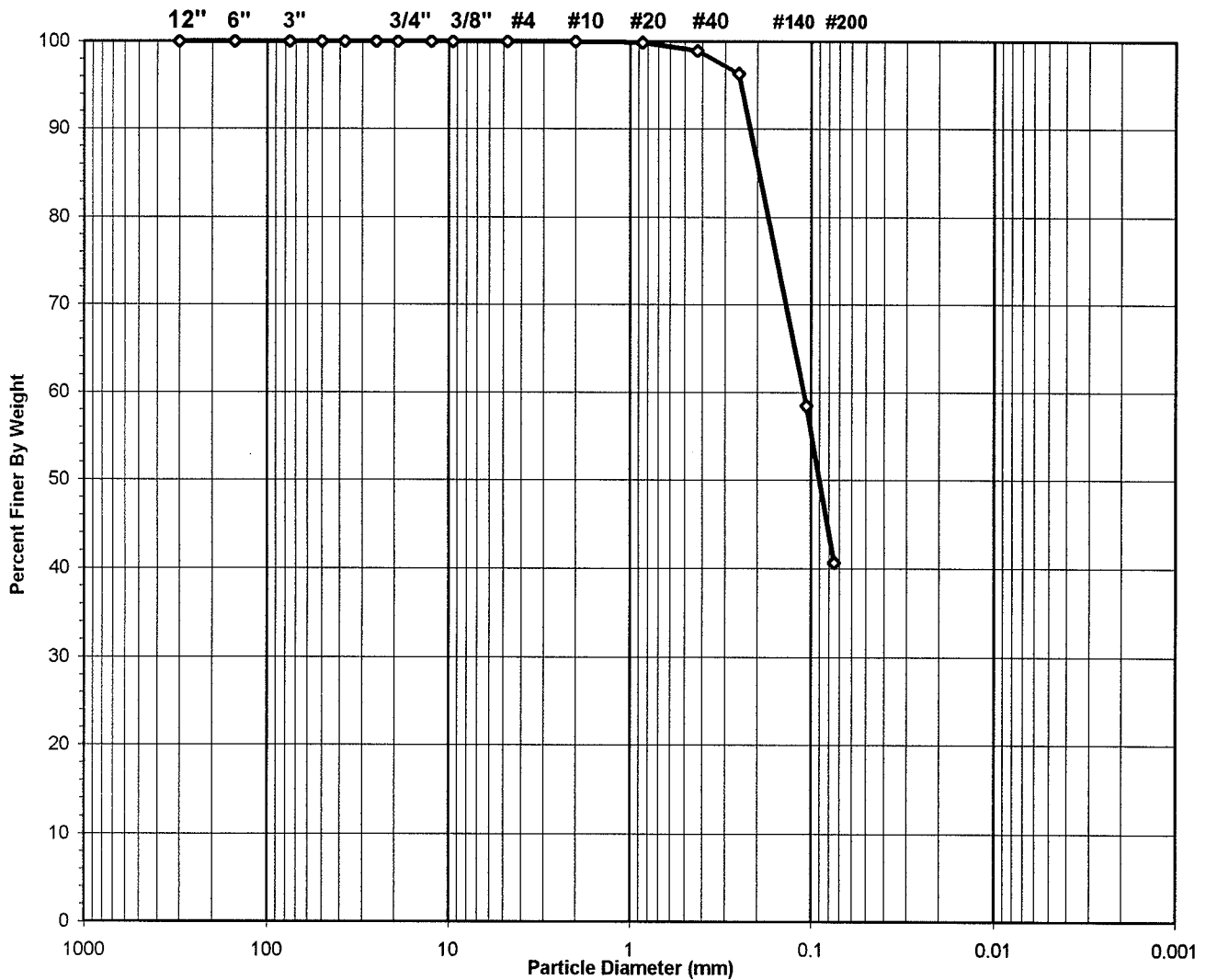
Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.00	0.00	100.00	100.00
6"	150	0.00	0.00	0.00	100.00	100.00
3"	75	0.00	0.00	0.00	100.00	100.00
2"	50	0.00	0.00	0.00	100.00	100.00
1 1/2"	37.5	0.00	0.00	0.00	100.00	100.00
1"	25.0	0.00	0.00	0.00	100.00	100.00
3/4"	19.0	0.00	0.00	0.00	100.00	100.00
1/2"	12.50	0.00	0.00	0.00	100.00	100.00
3/8"	9.50	0.00	0.00	0.00	100.00	100.00
#4	4.75	5.50	1.51	1.51	98.49	98.49
#10	2.00	8.72	2.39	3.89	96.11	96.11
#20	0.850	19.95	5.46	9.36	90.64	90.64
#40	0.425	79.99	21.90	31.26	68.74	68.74
#60	0.250	146.19	40.03	71.30	28.70	28.70
#140	0.106	85.79	23.49	94.79	5.21	5.21
#200	0.075	5.83	1.60	96.39	3.61	3.61
Pan	-	13.20	3.61	100.00	-	-

Tested By BE Date 10/6/05 Checked By *KVB* Date 10-11-05

SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	10/5/05
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-02	Sample No.	GT-214
Lab ID	2005-329-02-01	Soil Color	BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **SM, TESTED**

USCS Classification **SILTY SAND (NON-PLASTIC FINES)**

Tested By BE Date 10/13/05 Checked By KLB Date 10-27-05



WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	10/5/05
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-02	Sample No.	GT-214
Lab ID	2005-329-02-01	Soil Color	BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	503	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	1299.90	Wgt. Tare + Wet Specimen (gm)	NA
Wgt. Tare + Dry Specimen (gm)	1146.20	Wgt. Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	96.39	Weight of Tare (gm)	NA
Weight of Water (gm)	153.70	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	1049.81	Weight of Dry Soil (gm)	NA
Moisture Content (%)	14.6	Moisture Content (%)	NA

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	1049.81
Dry Weight - 3/4" Sample (gm)	622.3	Weight of minus #200 material (gm)	427.47
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	622.34
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.00	0.00	100.00	100.00
6"	150	0.00	0.00	0.00	100.00	100.00
3"	75	0.00	0.00	0.00	100.00	100.00
2"	50	0.00	0.00	0.00	100.00	100.00
1 1/2"	37.5	0.00	0.00	0.00	100.00	100.00
1"	25.0	0.00	0.00	0.00	100.00	100.00
3/4"	19.0	0.00	0.00	0.00	100.00	100.00
1/2"	12.50	0.00	0.00	0.00	100.00	100.00
3/8"	9.50	0.00	0.00	0.00	100.00	100.00
#4	4.75	0.00	0.00	0.00	100.00	100.00
#10	2.00	0.07	0.01	0.01	99.99	99.99
#20	0.850	1.42	0.14	0.14	99.86	99.86
#40	0.425	9.84	0.94	1.08	98.92	98.92
#60	0.250	26.91	2.56	3.64	96.36	96.36
#140	0.106	398.30	37.94	41.58	58.42	58.42
#200	0.075	185.80	17.70	59.28	40.72	40.72
Pan	-	427.47	40.72	100.00	-	-

Tested By BE Date 10/13/05 Checked By *YB* Date 10-27-05



ATTERBERG LIMIT
ASTM D 4318-00 (SOP - S4)

Client	BLASLAND, BOUCK & LEE	Boring No.	10/5/05
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-02	Sample No.	GT-214
Lab ID	2005-329-02-01	Visual Description	BROWN SILT (Minus No. 40 sieve material, Airdried)

**NON - PLASTIC
MATERIAL**

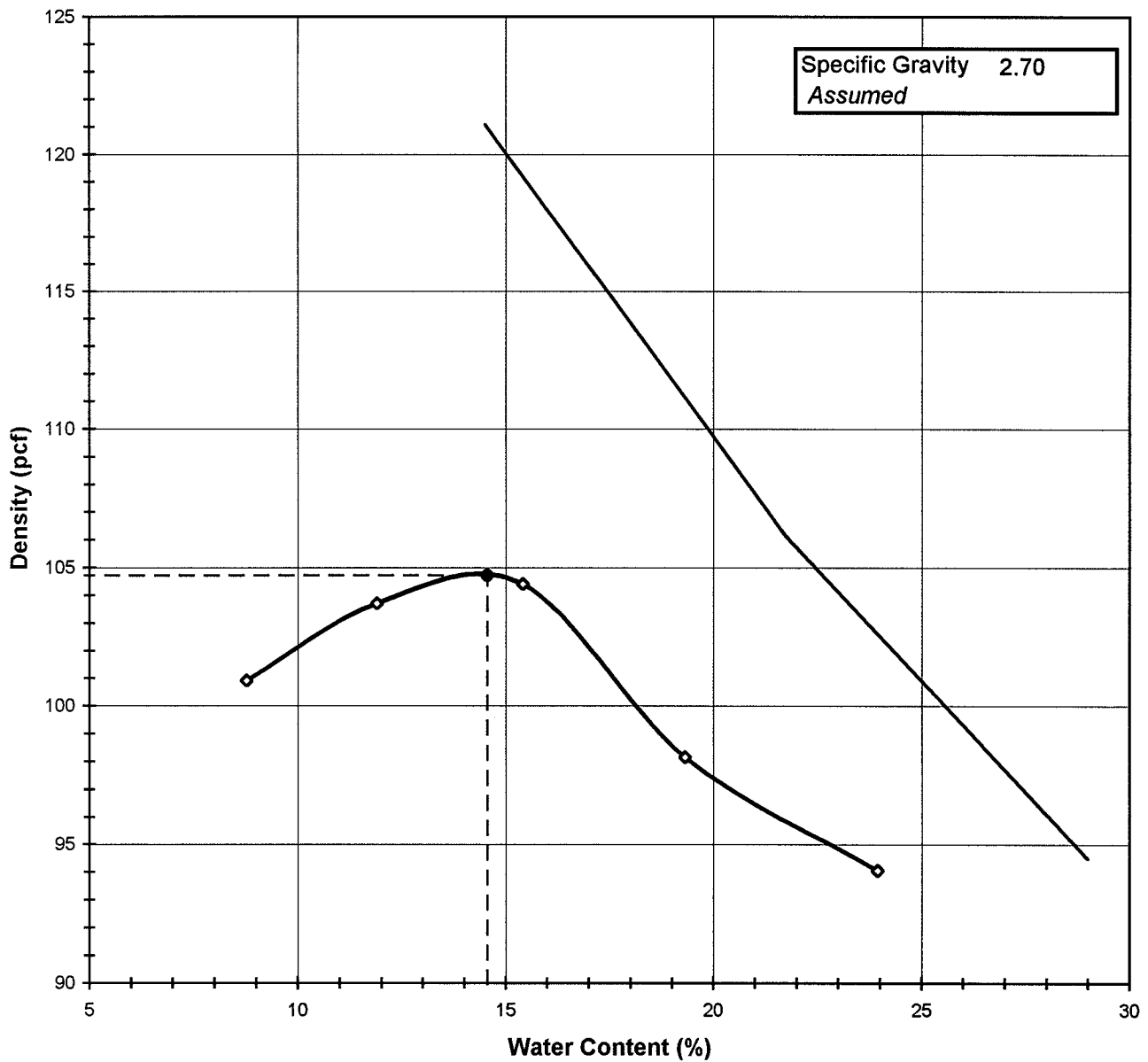
Tested By TO *Date* 10/25/05 *Checked By* YKB *Date* 10-26-05

MOISTURE DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	BLASLAND, BOUCK & LEE	Boring No.	10/5/05
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-02	Sample No.	GT-214
Lab ID	2005-329-02-01	Test Method	STANDARD
Visual Description	BROWN SAND		

Optimum Water Content 14.6
Maximum Dry Density 104.7



Tested By MB Date 10/13/05 Checked By KVB Date 10-17-05

MOISTURE - DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	BLASLAND, BOUCK & LEE	Boring No.	10/5/05
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-02	Sample No.	GT-214
Lab ID	2005-329-02-01		

Visual Description BROWN SAND

Total Weight of the Sample (gm)	NA
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	NA
Percent Retained on #4	NA
Oversize Material	Not included
Procedure Used	B

TestType	STANDARD	
Rammer Weight (lbs)	5.5	
Rammer Drop (in)	12	
Rammer Type	MECHANICAL	
Machine ID	G	441
Mold ID	G	606
Mold diameter	4	
Weight of the Mold	4215	
Volume of the Mold(cc)	943	

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5874	5969	6036	5985	5977
Wt. of Mold (gm)	4215	4215	4215	4215	4215
Wt. of WS	1659	1754	1821	1770	1762
Mold Volume (cc)	943	943	943	943	943

Moisture Content / Density

	676	9	564	566	598
Tare Number	676	9	564	566	598
Wt. of Tare & WS (gm)	476.40	478.50	485.20	485.20	489.80
Wt. of Tare & DS (gm)	443.97	435.52	431.43	420.35	411.80
Wt. of Tare (gm)	74.30	74.29	82.40	84.70	86.10
Wt. of Water (gm)	32.43	42.98	53.77	64.85	78.00
Wt. of DS (gm)	369.67	361.23	349.03	335.65	325.70

Wet Density (gm/cc)	1.76	1.86	1.93	1.88	1.87
Wet Density (pcf)	109.8	116.1	120.5	117.1	116.6
Moisture Content (%)	8.8	11.9	15.4	19.3	23.9
Dry Density (pcf)	100.9	103.7	104.4	98.2	94.1

Zero Air Voids

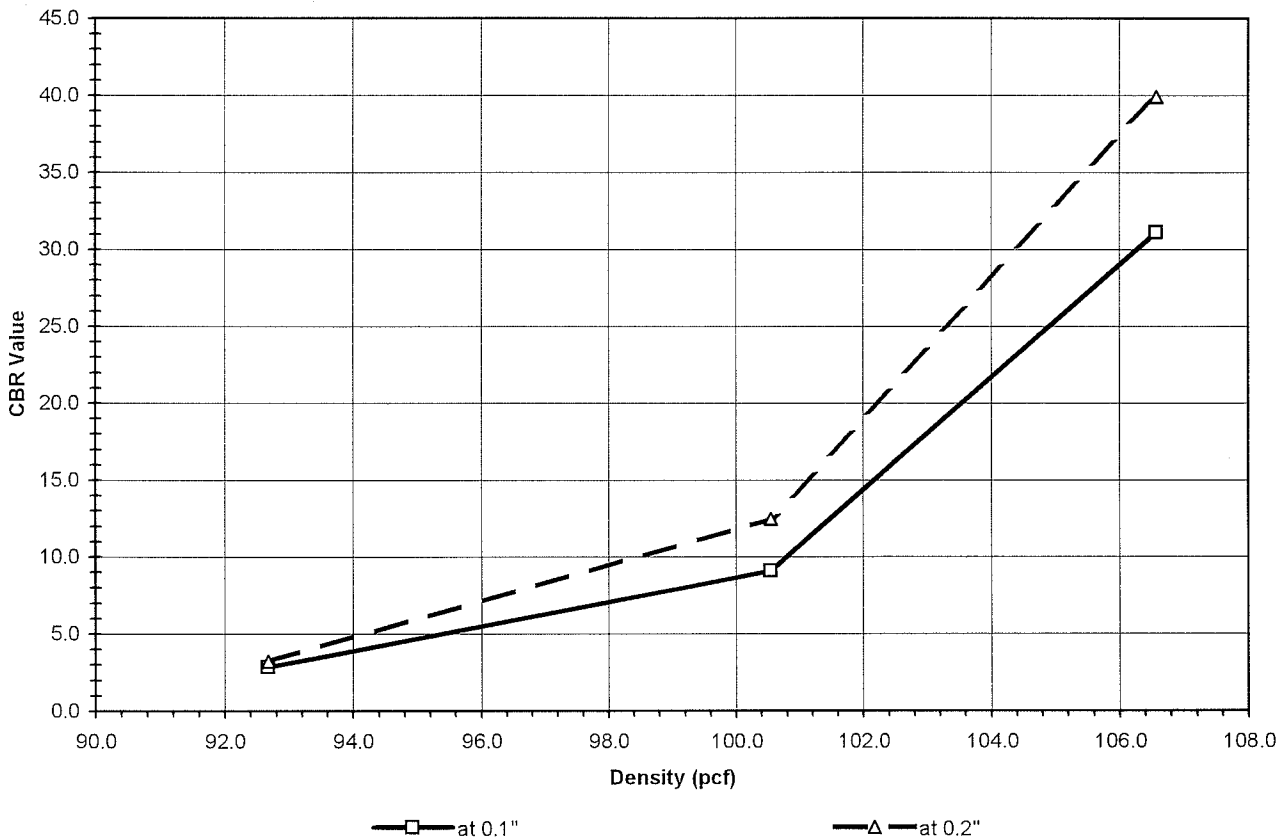
Moisture Content (%)	14.5	21.7	29.0
Dry Unit Weight (pcf)	121.1	106.2	94.5

Tested By MB Date 10/13/05 Checked By YRB Date 10-17-05

3 POINTS CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	10/5/05
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	NA
Project No.	2005-329-02	Sample No.	GT-214
Lab ID	2005-329-02-01	Visual Description	BROWN SAND

Point No.	1	2	3
Blows per Layer	10	25	65
Dry Density (pcf)	92.7	100.5	106.6
Dry Density (g/cc)	1.49	1.61	1.71
Corrected Penetration Stress @ 0.1"	28.67	91.00	311.00
Corrected Penetration Stress @ 0.2"	48.33	187.00	599.00
Corrected CBR Values @ 0.1"	2.87	9.10	31.10
Corrected CBR Values @ 0.2"	3.22	12.47	39.93

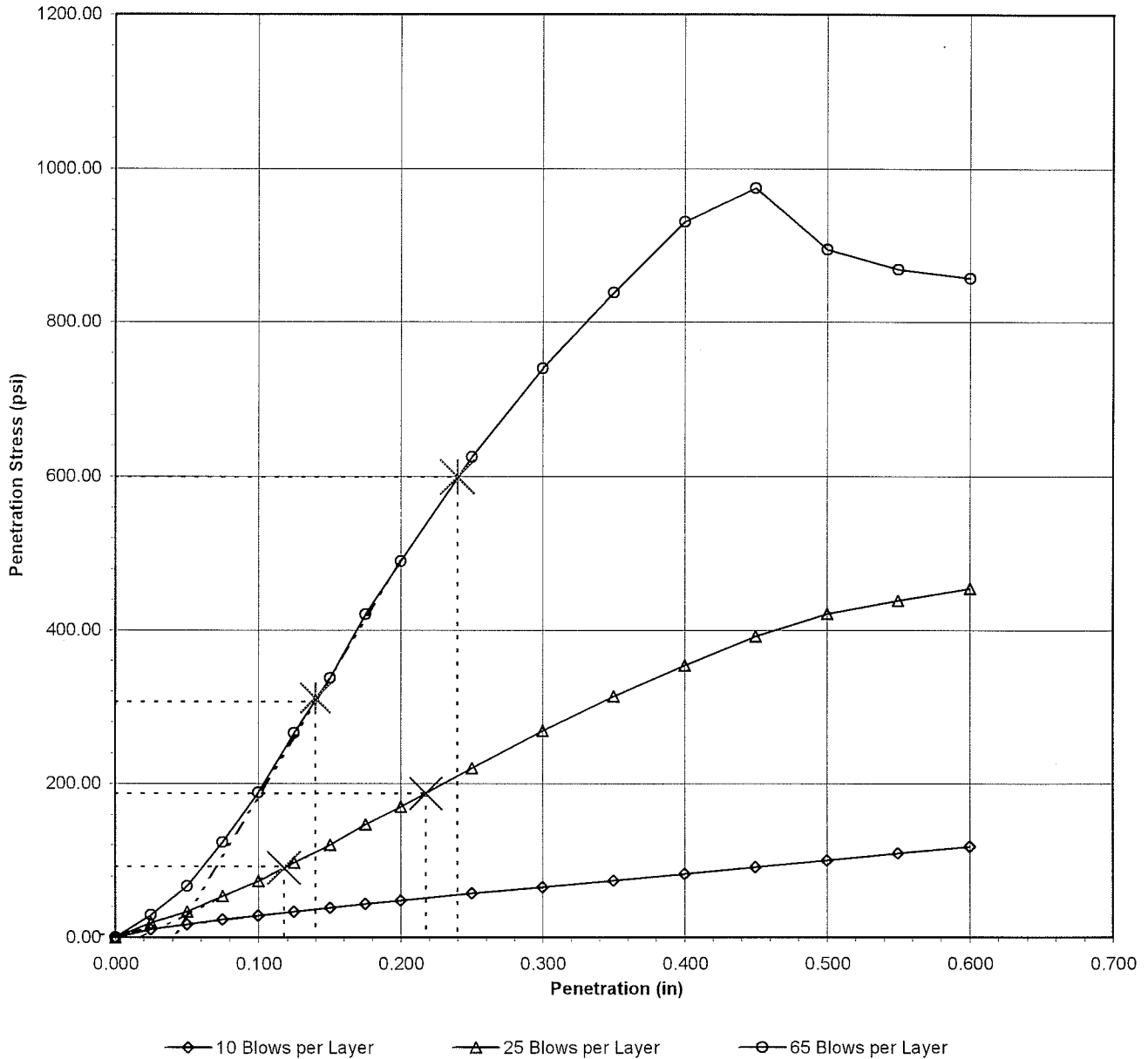


Tested By JP Date 10/25/05 Approved By *DB* Date 11/11/05

3 POINTS CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	10/5/05
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	NA
Project No.	2005-329-02	Sample No.	GT-214
Lab ID	2005-329-02-01	Visual Description	BROWN SAND

Penetration Stress vs. Penetration



Tested By JP Date 10/25/05 Approved By DB Date 11/11/05



3 POINT CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	10/5/05
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	NA
Project No.	2005-329-02	Sample No.	GT-214
Lab ID	2005-329-02-01	Visual Description	BROWN SAND

Test Type	STANDARD			
Molding Method	C	Density	Before	After
Mold ID	13	Measurement	Soaking	Soaking
Wt. of Mold (gm.)	7251	Wt. Mold & WS (gm.)	10855	11178
Mold Volume (cc)	2124	Wt. WS (gm.)	3604	3927
Surcharge (lbs.)	15	Sample Volume (cc)	2124	2170
Piston Area (in ²)	3	Wet Density (gm./cc)	1.70	1.81
Sample Height	4.58	Wet Density (pcf)	105.9	112.9
Sample Conditions	Soaked			
Blows per Layer	10	Dry Density (pcf)	92.7	91.5
		Dry Density (gm./cc)	1.49	1.47

Water Contents	As Rec'd	Beginning Compaction	After Compaction	Before Soaking	After Soaking	Top 1" After Soak
Tare No.	NA	870	912	912	945	880
Wt. of T+WS (gm.)	NA	274.14	329.88	329.88	767.3	384.26
Wt. of T+DS (gm.)	NA	253.65	302.53	302.53	657.2	333.23
Wt of Tare (gm.)	NA	109.92	110.6	110.6	187.87	108.98
Moisture Content(%)	NA	14.3	14.2	14.2	23.5	22.8

Piston Displacement (in.)	Load (lbs.)	Penetration Stress (psi.)	Swell Measurement		
			Elapsed Time (hrs)	Dial Gauge (Div)	Percent Swell
0	0	0.0			
0.025	32	10.7			
0.050	51	17.0			
0.075	71	23.7			
0.100	86	28.7	0.00	274	0.00%
0.125	102	34.0	0.08	273	-0.02%
0.150	116	38.7	0.25	273	-0.02%
0.175	132	44.0	18.25	273	-0.02%
0.200	145	48.3	22.25	273	-0.02%
0.250	172	57.3	26.25	273	-0.02%
0.300	197	65.7	43.25	273	-0.02%
0.350	223	74.3	48.25	373	2.16%
0.400	249	83.0	67.25	373	2.16%
0.450	275	91.7	71.25	373	2.16%
0.500	301	100.3	138.25	373	2.16%
0.550	328	109.3			
0.600	354	118.0			

1Division = 0.001 in.

Tested By JP Date 10/25/05 Checked By *KB* Date 11-11-05



3 POINT CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	10/5/05
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	NA
Project No.	2005-329-02	Sample No.	GT-214
Lab ID	2005-329-02-01	Visual Description	BROWN SAND

Test Type	STANDARD			
Molding Method	C	Density	Before	After
Mold ID	1053	Measurement	Soaking	Soaking
Wt. of Mold (gm.)	7260	Wt. Mold & WS (gm.)	11177	11362
Mold Volume (cc)	2124	Wt. WS (gm.)	3917	4102
Surcharge (lbs.)	15	Sample Volume (cc)	2124	2124
Piston Area (in ²)	3	Wet Density (gm./cc)	1.84	1.93
Sample Height	4.58	Wet Density (pcf)	115.1	120.5
Sample Conditions	Soaked			
Blows per Layer	25	Dry Density (pcf)	100.5	101.8
		Dry Density (gm./cc)	1.61	1.63

Water Contents	As Rec'd	Beginning Compaction	After Compaction	Before Soaking	After Soaking	Top 1" After Soak
Tare No.	NA	897	888	888	2490	606
Wt. of T+WS (gm.)	NA	403.12	372.41	372.41	734.2	390.94
Wt. of T+DS (gm.)	NA	366.25	339.37	339.37	634.9	342.1
Wt of Tare (gm.)	NA	109.84	110.69	110.69	95.37	85.58
Moisture Content(%)	NA	14.4	14.4	14.4	18.4	19.0

Piston Displacement (in.)	Load (lbs.)	Penetration Stress (psi.)	Swell Measurement		
			Elapsed Time (hrs)	Dial Gauge (Div)	Percent Swell
0	0	0.0			
0.025	59	19.7			
0.050	102	34.0			
0.075	163	54.3			
0.100	221	73.7	0.00	320	0.00%
0.125	292	97.3	0.08	321	0.02%
0.150	360	120.0	0.25	321	0.02%
0.175	441	147.0	18.25	321	0.02%
0.200	511	170.3	22.25	321	0.02%
0.250	661	220.3	26.25	321	0.02%
0.300	805	268.3	43.25	321	0.02%
0.350	940	313.3	48.25	321	0.02%
0.400	1061	353.7	67.25	321.5	0.03%
0.450	1175	391.7	71.25	321	0.02%
0.500	1264	421.3	138.25	321	0.02%
0.550	1316	438.7			
0.600	1363	454.3			

1Division = 0.001 in.

Tested By JP Date 10/25/05 Checked By *YB* Date 11-11-05



3 POINT CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	10/5/05
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	NA
Project No.	2005-329-02	Sample No.	GT-214
Lab ID	2005-329-02-01	Visual Description	BROWN SAND

Test Type	STANDARD	Density	Before	After
Molding Method	C	Measurement	Soaking	Soaking
Mold ID	1054	Wt. Mold & WS (gm.)	11450	11549
Wt. of Mold (gm.)	7294	Wt. WS (gm.)	4156	4255
Mold Volume (cc)	2124	Sample Volume (cc)	2124	2124
Surcharge (lbs.)	15	Wet Density (gm./cc)	1.96	2.00
Piston Area (in ²)	3	Wet Density (pcf)	122.1	125.0
Sample Height	4.58	Dry Density (pcf)	106.6	107.4
Sample Conditions	Soaked	Dry Density (gm./cc)	1.71	1.72
Blows per Layer	65			

Water	As	Begining	After	Before	After	Top 1"
Contents	Rec'd	Compaction	Compaction	Soaking	Soaking	After Soak
Tare No.	NA	916	889	889	658	553
Wt. of T+WS (gm.)	NA	278.59	245.87	245.87	716.6	297.54
Wt. of T+DS (gm.)	NA	257.36	228.6	228.6	629.2	265.98
Wt of Tare (gm.)	NA	109.81	110.03	110.03	97.18	84.38
Moisture Content(%)	NA	14.4	14.6	14.6	16.4	17.4

Piston	Displacement	Load	Penetration	Swell		
				Measurement		
(in.)	(lbs.)	(psi.)	Elapsed	Dial	Percent	
			Time	Gauge	Swell	
			(hrs)	(Div)		
0	0	0.0				
0.025	88	29.3				
0.050	200	66.7				
0.075	371	123.7				
0.100	566	188.7	0.00	545	0.00%	
0.125	797	265.7	0.08	545	0.00%	
0.150	1011	337.0	0.25	545	0.00%	
0.175	1261	420.3	18.25	545	0.00%	
0.200	1470	490.0	22.25	545	0.00%	
0.250	1876	625.3	26.25	545	0.00%	
0.300	2220	740.0	43.25	545	0.00%	
0.350	2515	838.3	48.25	545	0.00%	
0.400	2791	930.3	67.25	545	0.00%	
0.450	2924	974.7	71.25	545	0.00%	
0.500	2684	894.7	138.25	545	0.00%	
0.550	2605	868.3				
0.600	2572	857.3				

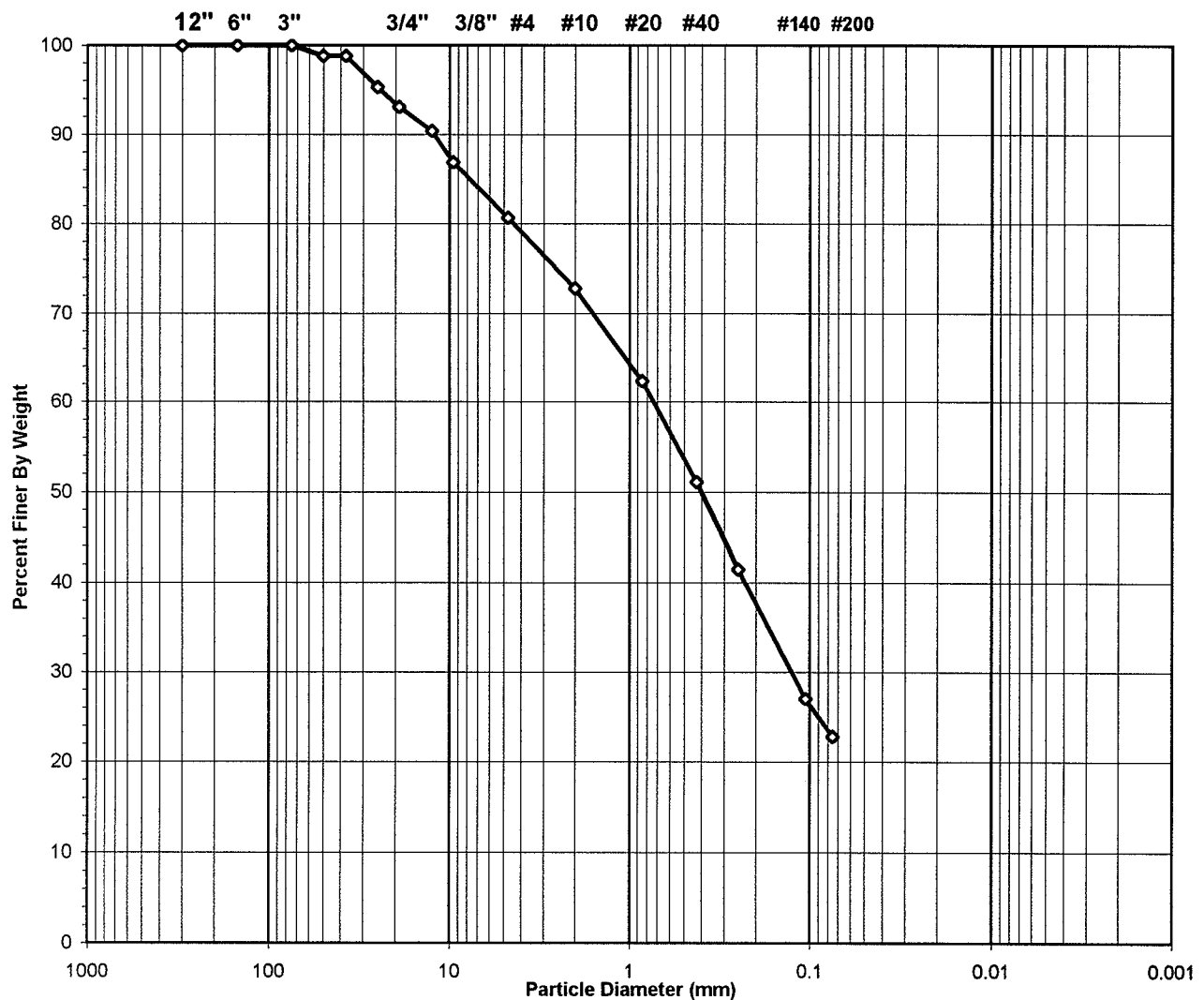
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Tested By JP Date 10/25/05 Checked By KRB Date 11-11-05

SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	10/5/05
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-02	Sample No.	GT-217
Lab ID	2005-329-02-02	Soil Color	DARK BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **SM, TESTED**

USCS Classification **SILTY SAND WITH GRAVEL (NON-PLASTIC FINES)**

Tested By BE Date 10/13/05 Checked By *KJB* Date 10-27-05

WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	10/5/05
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-02	Sample No.	GT-217
Lab ID	2005-329-02-02	Soil Color	DARK BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	924	Tare No.	891
Wgt. Tare + Wet Specimen (gm)	1303.60	Wgt. Tare + Wet Specimen (gm)	491.42
Wgt. Tare + Dry Specimen (gm)	1177.00	Wgt. Tare + Dry Specimen (gm)	477.50
Weight of Tare (gm)	102.99	Weight of Tare (gm)	110.47
Weight of Water (gm)	126.60	Weight of Water (gm)	13.92
Weight of Dry Soil (gm)	1074.01	Weight of Dry Soil (gm)	367.03
Moisture Content (%)	11.8	Moisture Content (%)	3.8

Wet Weight -3/4" Sample (gm)	15821	Weight of the Dry Specimen (gm)	1074.01
Dry Weight - 3/4" Sample (gm)	14152.7	Weight of minus #200 material (gm)	263.37
Wet Weight +3/4" Sample (gm)	1094.37	Weight of plus #200 material (gm)	810.64
Dry Weight + 3/4" Sample (gm)	1054.38		
Total Dry Weight Sample (gm)	15207.1	J - Factor (Percent Finer than 3/4")	0.9307

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.00	0.00	100.00	100.00
6"	150	0.00	0.00	0.00	100.00	100.00
3"	75	0.00	0.00	0.00	100.00	100.00
2"	50	186.07	(*) 1.18	1.18	98.82	98.82
1 1/2"	37.5	0.00	0.00	1.18	98.82	98.82
1"	25	561.90	3.56	4.74	95.26	95.26
3/4"	19	346.40	2.19	6.93	93.07	93.07
1/2"	12.5	30.54	2.84	2.84	97.16	90.42
3/8"	9.5	40.77	3.80	6.64	93.36	86.89
#4	4.75	72.14	6.72	13.36	86.64	80.64
#10	2	90.80	8.45	21.81	78.19	72.77
#20	0.85	120.11	(**) 11.18	32.99	67.01	62.36
#40	0.425	129.64	12.07	45.06	54.94	51.13
#60	0.25	111.71	10.40	55.47	44.53	41.45
#140	0.106	166.77	15.53	70.99	29.01	27.00
#200	0.075	48.16	4.48	75.48	24.52	22.82
Pan	-	263.37	24.52	100.00	-	-

Notes : (*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample
(**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen

Tested By **BE** Date **10/13/05** Checked By **YVP** Date **10-27-05**



ATTERBERG LIMIT
ASTM D 4318-00 (SOP - S4)

Client	BLASLAND, BOUCK & LEE	Boring No.	10/5/05
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-02	Sample No.	GT-217
Lab ID	2005-329-02-02	Visual Description	DARK BROWN SILT (Minus No. 40 sieve material, Airdried)

**NON - PLASTIC
MATERIAL**

Tested By TO Date 10/25/05 Checked By *KPB* Date *10-26-05*

**SPECIFIC GRAVITY OF OVERSIZE PARTICLES
FOR CORRECTION OF MOISTURE - DENSITY RELATIONSHIP**

ASTM C127-88 (SOP-S38)
(R C S p G r a v . X L S)

Client	BLASLAND, BOUCK & LEE	Boring No.	10/5/05
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-02	Sample No.	GT-217
Lab ID	2005-329-02-02		

Visual Description: DARK BROWN SANDY SOIL WITH ROCK FRAGMENTS

Total dry weight of sample 15178.2

COARSE PORTION		FINE PORTION	
Total wet wt. of +3/4" portion	1064.4 (gm)	Total wet wt. of -3/4" portion	15821.0
Total dry wt. of +3/4" portion	1025.48 (gm)	Total dry wt. of -3/4" portion	14152.73
% +3/4" by dry weight	6.8	% -3/4" by dry weight	93.24

MOISTURE CONTENT OF +3/4" PORTION

Tare Number	891
Wt. of Tare & WS (gm)	491.42
Wt. of Tare & DS (gm)	477.50
Wt. of Tare (gm)	110.47
Wt. of Water (gm)	13.92
Wt. of DS (gm)	367.03

Water Content (%) 3.79

MOISTURE CONTENT OF -3/4" PORTION

Tare Number	924
Wt. of Tare & WS (gm)	1303.60
Wt. of Tare & DS (gm)	1177.00
Wt. of Tare (gm)	102.99
Wt. of Water (gm)	126.60
Wt. of DS (gm)	1074.01

11.79

SPECIFIC GRAVITY DETERMINATION

Weight of Basket in Air (gm)	1734
Weight of Saturated Surface Dried Sample + Basket in Air (gm)	2434
Weight of Saturated Surface Dried Sample in Air (gm)	700
Weight of Basket in Water (gm)	1504
Weight of Saturated Sample + Basket in Water (gm)	1889
Weight of Saturated Sample in Water (gm)	385
Tare No.	1614
Weight of Tare and Dried Sample (gm)	745
Weight of Tare (gm)	96.12
Weight of Dried Soil (gm)	648.9

Bulk Specific Gravity(+3/4") 2.06

Tested By JP Date 10/10/05 Checked By *YKB* Date 10-17-05

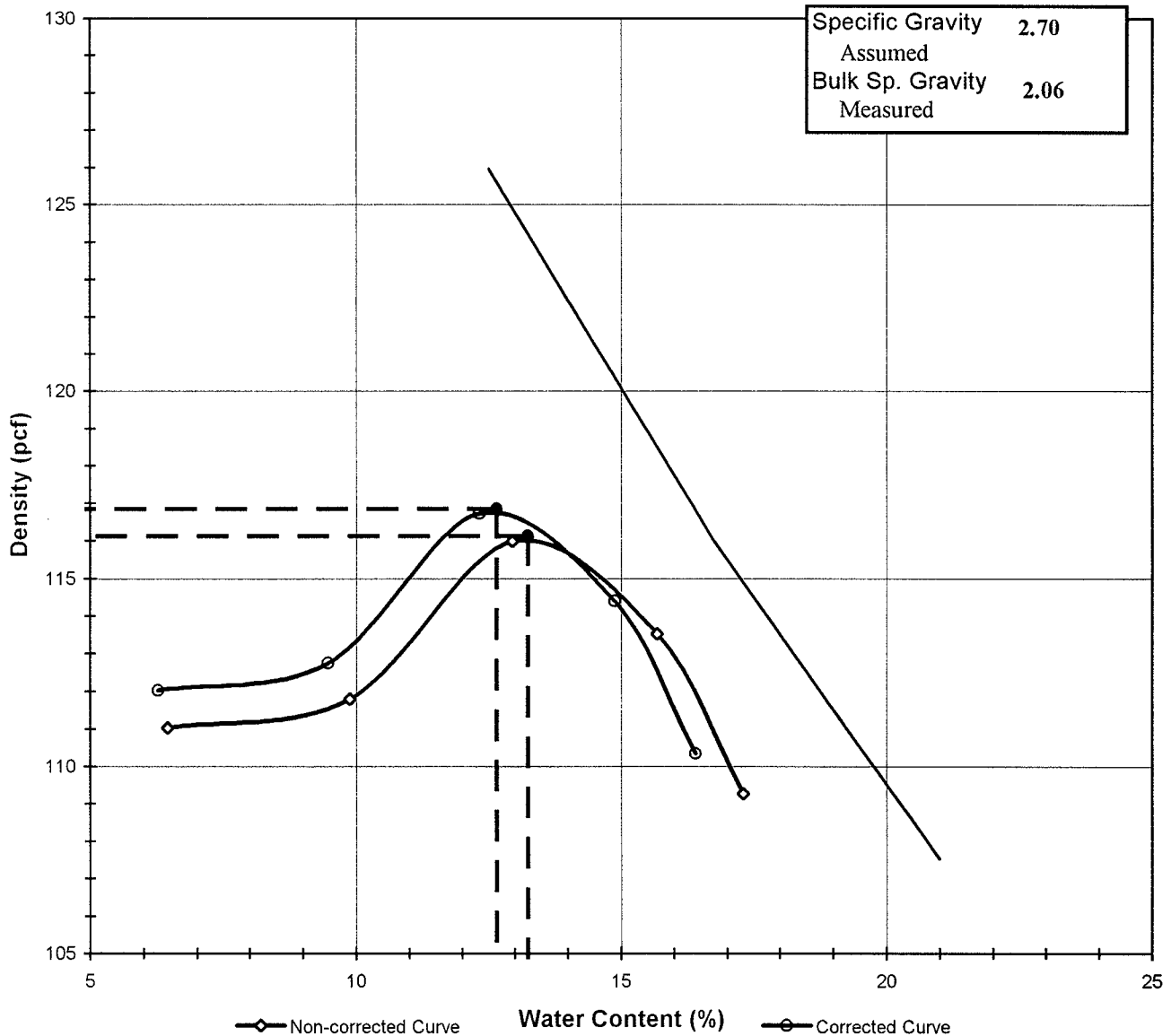
**MOISTURE - DENSITY RELATIONSHIP
(Corrected for Oversize Particles)**

ASTM D 4718, D 698-91 (SOP-S12, S39)

Client	BLASLAND, BOUCK & LEE	Boring No.	10/5/05
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-02	Sample No.	GT-217
Lab ID	2005-329-02-02	Test Method	STANDARD

Visual Description DARK BROWN SANDY SOIL WITH ROCK FRAGMENTS

Optimum Water Content	13.2	Corrected Water Content	12.7
Maximum Dry Density	116.1	Corrected Dry Density	116.9



Tested By PC Date 10/14/05 Checked By JMB Date 11-21-05

**MOISTURE - DENSITY RELATIONSHIP
(Corrected for Oversize Particles)**

ASTM D 4718, D 698-91 (SOP-S12,S39)



Client	BLASLAND, BOUCK & LEE	Boring No.	10/5/05
Client Reference	GE Processing Facility 20430.011	Depth (ft)	NA
Project No.	2005-329-02	Sample No.	GT-217
Lab ID	2005-329-02-02		

Visual Description DARK BROWN SANDY SOIL WITH ROCK FRAGMENTS

Total Weight of the Sample (gm)	16885
As Received Water Content(%)	NA
Assumed Specific Gravity(gm/cc)	2.70

TestType	STANDARD	
Rammer Weight (lbs)	5.5	
Rammer Drop (in)	12	
Rammer Type	Mechanical	
Machine ID	G	441
Mold ID	G	621
Mold diameter	6"	
Weight of the Mold	6438	
Volume Of the Mold	2129	

Percent Retained on 3/4" (Dry)	6.80
Percent Retained on 3/8" (Dry)	NA
Percent Retained on #4 (Dry)	NA
Oversize Material	Not included
Procedure Used	C

Mold/Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	10471	10629	10908	10919	10811
Wt. of Mold (gm)	6438	6438	6438	6438	6438
Wt. of WS	4033	4191	4470	4481	4373
Mold Volume (cc)	2129	2129	2129	2129	2129

Moisture Content/Density

	603	9	546	575	1126
Tare Number					
Wt. of Tare & WS (gm)	496.60	497.80	491.50	491.00	474.80
Wt. of Tare & DS (gm)	471.62	459.73	444.97	435.68	417.26
Wt. of Tare (gm)	84.45	74.28	85.67	82.92	84.84
Wt. of Water (gm)	24.98	38.07	46.53	55.32	57.54
Wt. of DS (gm)	387.17	385.45	359.30	352.76	332.42

Wet Density (gm/cc)	1.89	1.97	2.10	2.10	2.05
Wet Density (pcf)	118.2	122.8	131.0	131.3	128.2
Moisture Content (%)	6.5	9.9	13.0	15.7	17.3
Dry Density (pcf)	111.0	111.8	116.0	113.5	109.3

Zero Air Voids

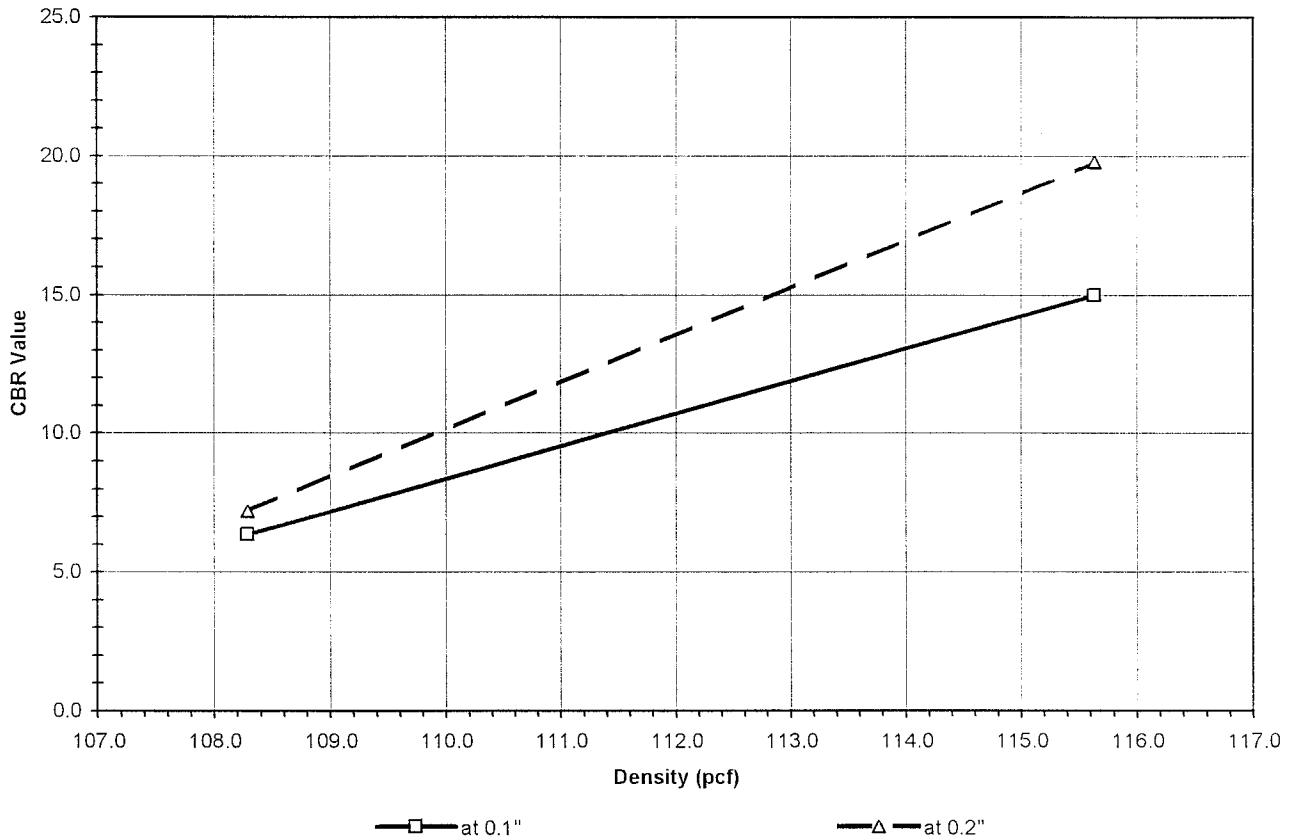
Moisture Content (%)	12.5	16.7	21.0
Dry Unit Weight (pcf)	126.0	116.0	107.5

Tested By PC Date 10/14/05 Checked By *KB* Date 11-21-05

3 POINTS CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	10/05/05
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	NA
Project No.	2005-329-02	Sample No.	GT-217
Lab ID	2050-329-02-02	Visual Description	DARK BROWN SANDY SOIL AND ROCK FRAGMENTS

Point No.	1	2
Blows per Layer	10	25
Dry Density (pcf)	108.3	115.6
Dry Density (g/cc)	1.74	1.85
Corrected Penetration Stress @ 0.1"	63.67	150.00
Corrected Penetration Stress @ 0.2"	108.00	297.00
Corrected CBR Values @ 0.1"	6.37	15.00
Corrected CBR Values @ 0.2"	7.20	19.80

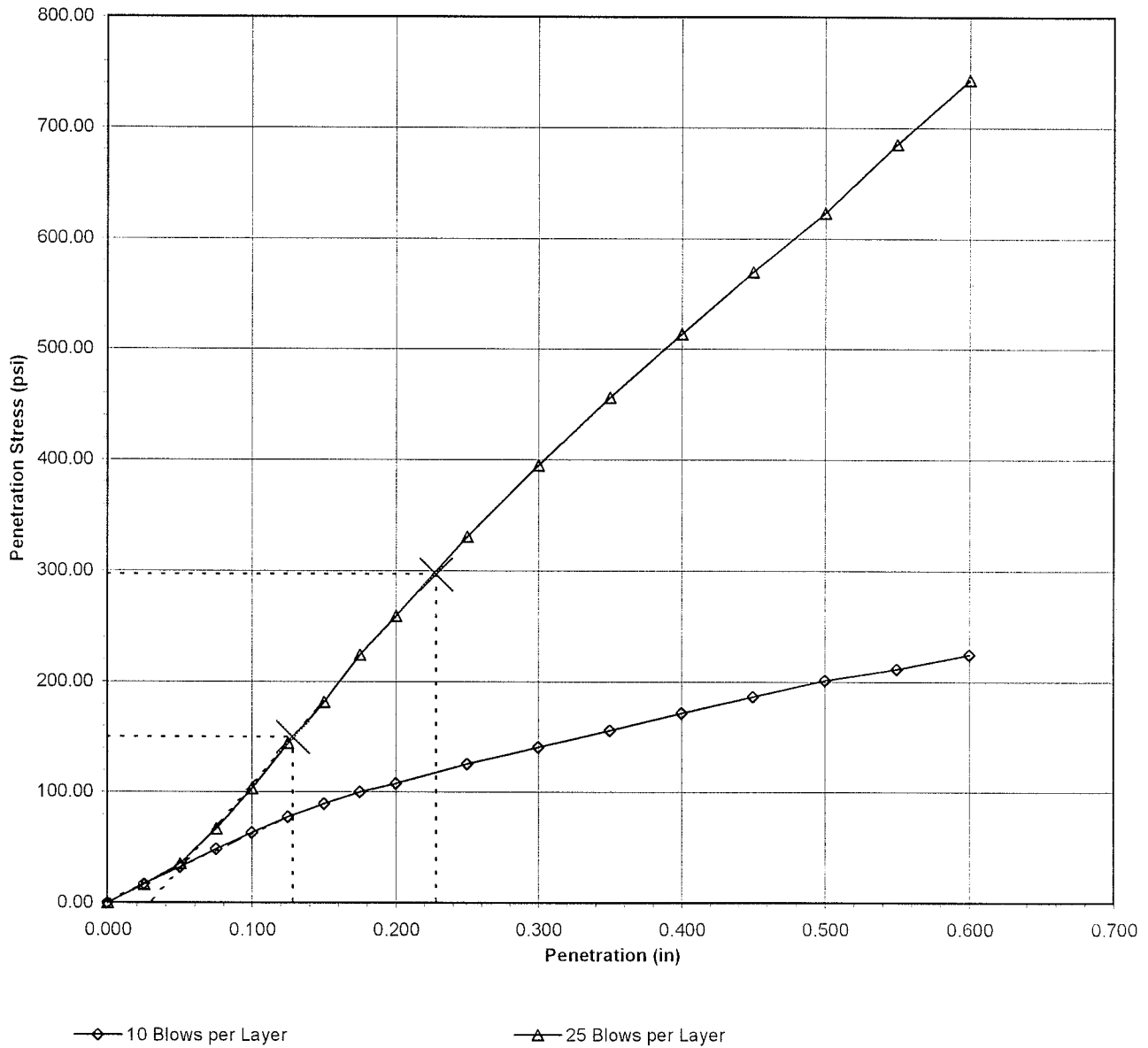


Tested By JP Date 10/25/05 Approved By *DB* Date 12/8/05

3 POINTS CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	10/05/05
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	NA
Project No.	2005-329-02	Sample No.	GT-217
Lab ID	2050-329-02-02	Visual Description	DARK BROWN SANDY SOIL AND ROCK FRAGMENTS

Penetration Stress vs. Penetration



Tested By JP Date 10/25/05 Approved By DB Date 12/8/05



3 POINT CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	10/05/05
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	NA
Project No.	2005-329-02	Sample No.	GT-217
Lab ID	2050-329-02-02	Visual Description	DARK BROWN SANDY SOIL AND ROCK FRAGMENTS

Test Type	STANDARD	Density Measurement	Before Soaking	After Soaking
Molding Method	C	Wt. Mold & WS (gm.)	11408	11541
Mold ID	1053	Wt. WS (gm.)	4151	4284
Wt. of Mold (gm.)	7257	Sample Volume (cc)	2124	2124
Mold Volume (cc)	2124	Wet Density (gm./cc)	1.95	2.02
Surcharge (lbs.)	15	Wet Density (pcf)	122.0	125.8
Piston Area (in ²)	3	Dry Density (pcf)	108.3	108.9
Sample Height	4.58	Dry Density (gm./cc)	1.74	1.75
Sample Conditions	Soaked			
Blows per Layer	10			

Water Contents	As Rec'd	Beginning Compaction	After Compaction	Before Soaking	After Soaking	Top 1" After Soak
Tare No.	NA	880	892	892	H40	623
Wt. of T+WS (gm.)	NA	297.16	250.55	250.55	944.3	459.84
Wt. of T+DS (gm.)	NA	274.84	234.79	234.79	847.5	408.7
Wt of Tare (gm.)	NA	108.99	109.87	109.87	224.01	83.56
Moisture Content(%)	NA	13.5	12.6	12.6	15.5	15.7

Piston Displacement (in.)	Load (lbs.)	Penetration Stress (psi.)	Swell Measurement		
			Elapsed Time (hrs)	Dial Gauge (Div)	Percent Swell
0	0	0.0			
0.025	52	17.3			
0.050	97	32.3			
0.075	147	49.0			
0.100	191	63.7	0.00	303	0.00%
0.125	234	78.0	0.08	303	0.00%
0.150	268	89.3	0.25	303	0.00%
0.175	301	100.3	18.25	304	0.02%
0.200	324	108.0	22.25	304	0.02%
0.250	376	125.3	26.25	304	0.02%
0.300	422	140.7	42.25	304	0.02%
0.350	468	156.0	48.25	304	0.02%
0.400	516	172.0	67.25	304	0.02%
0.450	559	186.3	71.25	304	0.02%
0.500	604	201.3	138.25	304	0.02%
0.550	634	211.3			
0.600	674	224.7			

1Division = 0.001 in.

Tested By JP Date 10/25/05 Checked By Jem Date 12-8-05



3 POINT CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	10/05/05
Client Reference	GE Processing Facility 20430.011	Depth(ft.)	NA
Project No.	2005-329-02	Sample No.	GT-217
Lab ID	2050-329-02-02	Visual Description	DARK BROWN SANDY SOIL AND ROCK FRAGMENTS

Test Type	STANDARD			
Molding Method	C	Density	Before	After
Mold ID	12	Measurement	Soaking	Soaking
Wt. of Mold (gm.)	6867	Wt. Mold & WS (gm.)	11279	11355
Mold Volume (cc)	2124	Wt. WS (gm.)	4412	4488
Surcharge (lbs.)	15	Sample Volume (cc)	2124	2124
Piston Area (in ²)	3	Wet Density (gm./cc)	2.08	2.11
Sample Height	4.58	Wet Density (pcf)	129.6	131.8
Sample Conditions	Soaked			
Blows per Layer	25	Dry Density (pcf)	115.6	116.5
		Dry Density (gm./cc)	1.85	1.87

Water	As	Beginning	After	Before	After	Top 1"
Contents	Rec'd	Compaction	Compaction	Soaking	Soaking	After Soak
Tare No.	NA	589	673	673	1913	1122
Wt. of T+WS (gm.)	NA	175.43	191.29	191.29	917.4	498.42
Wt. of T+DS (gm.)	NA	165.54	178.5	178.5	822.7	450.15
Wt of Tare (gm.)	NA	83	72.73	72.73	101.95	84.36
Moisture Content(%)	NA	12.0	12.1	12.1	13.1	13.2

Piston Displacement (in.)	Load (lbs.)	Penetration Stress (psi.)	Swell Measurement		
			Elapsed Time (hrs)	Dial Gauge (Div)	Percent Swell
0	0	0.0			
0.025	50	16.7			
0.050	107	35.7			
0.075	201	67.0			
0.100	310	103.3	0.00	287	0.00%
0.125	433	144.3	0.08	288	0.02%
0.150	545	181.7	0.25	288	0.02%
0.175	672	224.0	1.25	288	0.02%
0.200	778	259.3	3.25	288	0.02%
0.250	993	331.0	17.67	288	0.02%
0.300	1185	395.0	23.67	288	0.02%
0.350	1369	456.3	41.67	288	0.02%
0.400	1541	513.7	65.67	288	0.02%
0.450	1710	570.0	115.67	288	0.02%
0.500	1870	623.3	236.17	288	0.02%
0.550	2056	685.3			
0.600	2230	743.3			

1Division = 0.001 in.

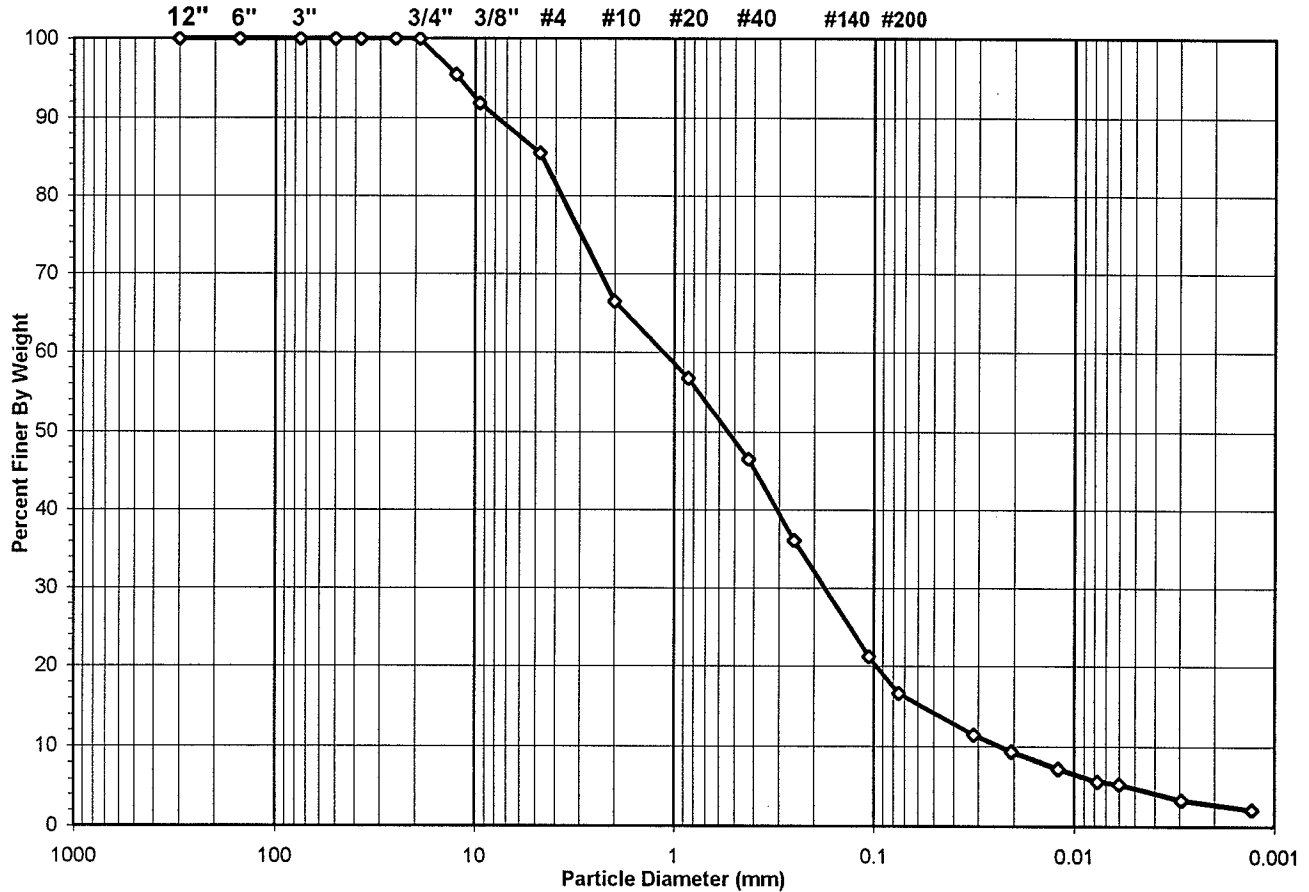
Tested By JP Date 10/25/05 Checked By *Jem* Date 12-8-05



SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK AND LEE	Boring No.	GT-218
Client Reference	GE Processing Facility 20430.011	Depth (ft)	4-6
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-10	Soil Color	BROWN

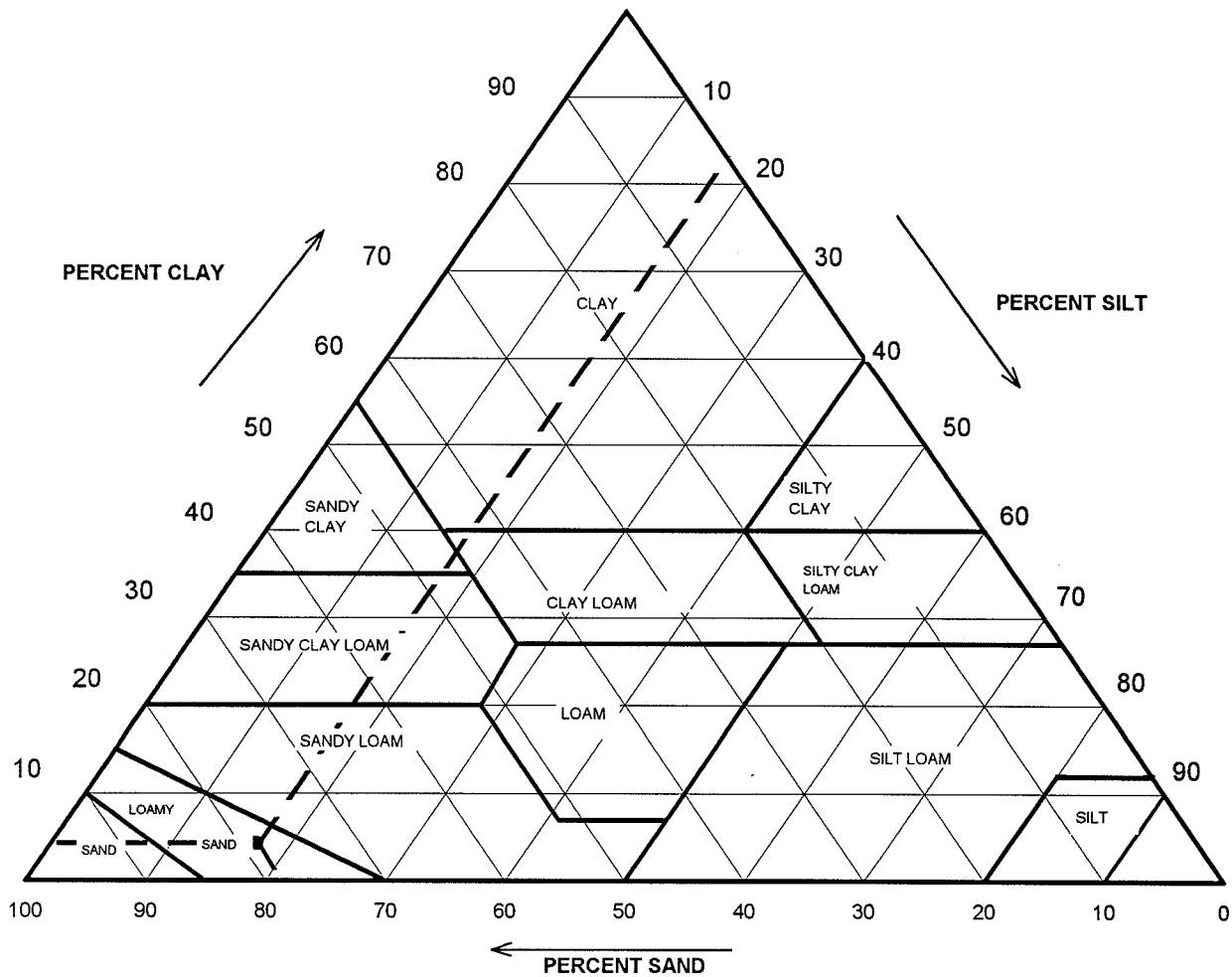
USCS USDA	SIEVE ANALYSIS			HYDROMETER	
	cobbles	gravel	sand	silt and clay fraction	
	cobbles	gravel	sand	silt	clay



USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	Gravel	14.57
#4 To #200	Sand	68.79
Finer Than #200	Silt & Clay	16.65
USCS Symbol	sc, ASSUMED	
USCS Classification	CLAYEY SAND	

USDA CLASSIFICATION CHART

Client	BLASLAND, BOUCK AND LEE	Boring No.	GT-218
Client Reference	GE Processing Facility 20430.011	Depth (ft)	4-6
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-10	Soil Color	BROWN



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	33.54	0.00
2	66.46	<i>Sand</i>	52.24	78.60
0.05	14.22	<i>Silt</i>	11.39	17.14
0.002	2.83	<i>Clay</i>	2.83	4.26
USDA Classification		LOAMY SAND		



WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK AND LEE	Boring No.	GT-218
Client Reference	GE Processing Facility 20430.011	Depth (ft)	4-6
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-10	Soil Color	BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	567	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	424.50	Wgt. Tare + Wet Specimen (gm)	NA
Wgt. Tare + Dry Specimen (gm)	388.00	Wgt. Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	84.45	Weight of Tare (gm)	NA
Weight of Water (gm)	36.50	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	303.55	Weight of Dry Soil (gm)	NA
Moisture Content (%)	12.0	Moisture Content (%)	NA

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	303.55
Dry Weight - 3/4" Sample (gm)	253.02	Weight of minus #200 material (gm)	50.53
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	253.02
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.00	0.00	100.00	100.00
6"	150	0.00	0.00	0.00	100.00	100.00
3"	75	0.00	0.00	0.00	100.00	100.00
2"	50	0.00	0.00	0.00	100.00	100.00
1 1/2"	37.5	0.00	0.00	0.00	100.00	100.00
1"	25.0	0.00	0.00	0.00	100.00	100.00
3/4"	19.0	0.00	0.00	0.00	100.00	100.00
1/2"	12.5	13.83	4.56	4.56	95.44	95.44
3/8"	9.50	10.80	3.56	8.11	91.89	91.89
#4	4.75	19.59	6.45	14.57	85.43	85.43
#10	2.00	57.59	18.97	33.54	66.46	66.46
#20	0.85	29.40	9.69	43.23	56.77	56.77
#40	0.425	31.10	10.25	53.47	46.53	46.53
#60	0.250	31.38	10.34	63.81	36.19	36.19
#140	0.106	45.49	14.99	78.79	21.21	21.21
#200	0.075	13.84	4.56	83.35	16.65	16.65
Pan	-	50.53	16.65	100.00	-	-

Tested By **BE** Date **10/6/05** Checked By **YKB** Date **10-11-05**

HYDROMETER ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK AND LEE	Boring No.	GT-218
Client Reference	GE Processing Facility 20430.011	Depth (ft)	4-6
Project No.	2005-329-01	Sample No.	NA
Lab ID	2005-329-01-10	Soil Color	BROWN

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)	
0	NA	NA	NA	NA	NA	NA	NA	NA	
2	25.0	25.0	24.1	6.04	19.0	69.0	0.01281	0.0316	11.5
5		21.5	24.1	6.04	15.5	56.2	0.01281	0.0205	9.4
15		18.0	24.1	6.04	12.0	43.5	0.01281	0.0121	7.2
38		15.5	24.1	6.04	9.5	34.4	0.01281	0.0077	5.7
63		15.0	24.0	6.07	8.9	32.5	0.01282	0.0060	5.4
281		12.0	23.1	6.40	5.6	20.4	0.01296	0.0029	3.4
1440		10.0	23.2	6.36	3.6	13.2	0.01294	0.0013	2.2

Soil Specimen Data		Other Corrections	
Tare No.	651		
Tare + Dry Material (gm)	128.56	a - Factor	0.99
Weight of Tare (gm)	96.34		
Weight of Deflocculant (gm)	5.0	Percent Finer than # 200	16.65
Weight of Dry Material (gm)	27.22	Specific Gravity	2.7 Assumed

Note: Hydrometer test is performed on - # 200 sieve material.

Tested By TO Date 10/5/05 Checked By *YMB* Date 10-11-05

UNCONFINED COMPRESSIVE STRENGTH TEST RESULTS

ASTM D 2938-95

CLIENT: Blasland, Bouck, & Lee, Inc.
 CLIENT PROJ: GE Processing Facility 20430
 PROJECT NO.: 2005-329-05
 LAB ID NO.: 2005-329-05-01

BORING I.D.: GT-303
 DEPTH(ft): 31.8 - 32.4
 SAMPLE ID: RUN 1A

DESCRIPTION: 2" DARK GRAY ROCK CORE

SPECIMEN DIAMETER(in.):

READING 1: 1.96
 READING 2: 1.96
 AVERAGE: **1.96**
 AREA(in²): 3.02
 L/D: 2.01

SPECIMEN LENGTH (in.)

BEFORE CAPPING

READING 1: 3.93
 READING 2: 3.92
 READING 3: 3.92
 AVERAGE: **3.92**

SPECIMEN LENGTH (in.)

AFTER CAPPING

READING 1: 3.95
 READING 2: 3.94
 READING 3: 3.95
 AVERAGE: **3.94**

TOTAL LOAD(lbs) 13,820
COMPRESSIVE STRENGTH (PSI): 4,580

FRACTURE TYPE: **Shear**

RATE OF LOADING(lbs/sec): 87
 TIME TO BREAK(min:sec:100th): 2:39:02
 DEVIATION FROM STRAIGHTNESS⁴:

AXIAL: *Pass* TOP: *Pass* BOTTOM: *Pass*

NOTES:

- 2) Moisture conditions at time of test are as received.
 - 3) Specimens capped with cement/plaster paste.
 - 4) Deviation from straightness, Procedure A of ASTM D 4543.
- Pass/Fail criteria: gap < 0.02 = Pass, gap > 0.02 = Fail



NOTE:

Tested By: *CK*

Date: *12/6/05*

Checked By: *Tim* Date *12-6-05*

UNCONFINED COMPRESSIVE STRENGTH TEST RESULTS
ASTM D 2938-95

CLIENT: Blasland, Bouck, & Lee, Inc.
 CLIENT PROJ: GE Processing Facility 20430
 PROJECT NO.: 2005-329-05
 LAB ID NO.: 2005-329-05-02

BORING I.D.: GT-303
 DEPTH(ft): 32.4 - 33.2
 SAMPLE ID: RUN 1B

DESCRIPTION: 2" DARK GRAY ROCK CORE

SPECIMEN DIAMETER(in.):

READING 1: 1.96
 READING 2: 1.97
 AVERAGE: **1.96**
 AREA(in²): 3.03
 L/D: 2.02

SPECIMEN LENGTH (in.)

BEFORE CAPPING

READING 1: 3.95
 READING 2: 3.95
 READING 3: 3.96
 AVERAGE: **3.95**

SPECIMEN LENGTH (in.)

AFTER CAPPING

READING 1: 3.98
 READING 2: 3.97
 READING 3: 3.98
 AVERAGE: **3.97**

TOTAL LOAD(lbs) 11,250
COMPRESSIVE STRENGTH (PSI): 3,710

FRACTURE TYPE: **Shear**

RATE OF LOADING(lbs/sec): 77
 TIME TO BREAK(min:sec:100th): 2:26:54
 DEVIATION FROM STRAIGHTNESS⁴:

AXIAL: Pass TOP: Pass BOTTOM: Pass

NOTES:

- 2) Moisture conditions at time of test are as received.
 - 3) Specimens capped with cement/plaster paste.
 - 4) Deviation from straightness, Procedure A of ASTM D 4543.
- Pass/Fail criteria: gap < 0.02 = Pass, gap > 0.02 = Fail



NOTE:

Tested By: **CK**

Date: **12/6/05**

Checked By **TM** Date **12-6-05**

UNCONFINED COMPRESSIVE STRENGTH TEST RESULTS

ASTM D 2938-95

CLIENT: Blasland, Bouck, & Lee, Inc.
 CLIENT PROJ: GE Processing Facility 20430
 PROJECT NO.: 2005-329-05
 LAB ID NO.: 2005-329-05-03

BORING I.D.: GT-303
 DEPTH(ft): 32.2 - 33.8
 SAMPLE ID: RUN 1C

DESCRIPTION: 2" DARK GRAY ROCK CORE

SPECIMEN DIAMETER(in.):

READING 1: 1.97
 READING 2: 1.97
 AVERAGE: **1.97**
 AREA(in²): 3.04
 L/D: 2.12

SPECIMEN LENGTH (in.)

BEFORE CAPPING

READING 1: 4.15
 READING 2: 4.13
 READING 3: 4.11
 AVERAGE: **4.13**

TOTAL LOAD(lbs) 11,665
COMPRESSIVE STRENGTH (PSI): 3,830

SPECIMEN LENGTH (in.)

AFTER CAPPING

READING 1: 4.17
 READING 2: 4.16
 READING 3: 4.16
 AVERAGE: **4.16**

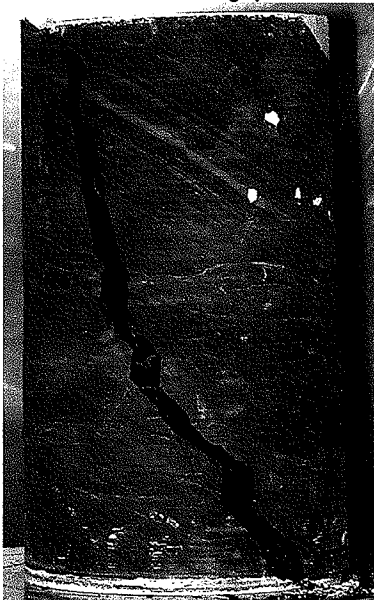
FRACTURE TYPE: **Shear**

RATE OF LOADING(lbs/sec): 68
 TIME TO BREAK(min:sec:100th): 2:52:36
 DEVIATION FROM STRAIGHTNESS⁴:

AXIAL: Pass TOP: Pass BOTTOM: Pass

NOTES:

- 2) Moisture conditions at time of test are as received.
- 3) Specimens capped with cement/plaster paste.
- 4) Deviation from straightness, Procedure A of ASTM D 4543.
 Pass/Fail criteria: gap < 0.02 = Pass, gap > 0.02 = Fail



NOTE:

Tested By: **CK** Date: **12/6/05** Checked By: **TM** Date: **12-6-05**



February 15, 2006

Project No. 2006-030-01

Mr. Steven Montagna
Blasland, Bouck & Lee
500 N. Gulph Rd., Suite 401
King of Prussia, PA 19406

Transmittal
Laboratory Test Results
GE Processing Facility 20430

Please find attached the laboratory test results for the above referenced project. The tests were outlined on the Project Verification Form that was faxed to your firm prior to the testing. The testing was performed in general accordance with the methods listed on the enclosed data sheets. The test results are believed to be representative of the samples that were submitted for testing and are indicative only of the specimens which were evaluated. We have no direct knowledge of the origin of the samples and imply no position with regard to the nature of the test results, i.e. pass/fail and no claims as to the suitability of the material for its intended use.

The test data and all associated project information provided shall be held in strict confidence and disclosed to other parties only with authorization by our Client. The test data submitted herein is considered integral with this report and is not to be reproduced except in whole and only with the authorization of the Client and Geotechnics. The remaining sample materials for this project will be retained for a minimum of 90 days as directed by the Geotechnics' Quality Program.

We are pleased to provide these testing services. Should you have any questions or if we may be of further assistance, please contact our office.

Respectively submitted,
Geotechnics, Inc.

David R. Backstrom
Laboratory Director

***We understand that you have a choice in your laboratory services
and we thank you for choosing Geotechnics.***

MOISTURE CONTENT

ASTM D 2216 (SOP-S1)

Client	BLASLAND, BOUCK & LEE
Client Reference	GE Processing Facility 20430
Project No.	2006-030-01

Lab ID	01	02
Boring No.	NA	NA
Depth (ft)	NA	NA
Sample No.	GT 411	GT 425
Tare Number	560	892
Wt. of Tare & WS (gm)	238.08	418.95
Wt. of Tare & DS (gm)	196.45	378.36
Wt. of Tare (gm)	82.78	109.98
Wt. of Water (gm)	41.63	40.59
Wt. of DS (gm)	113.67	268.38
Water Content (%)	36.6	15.1

Notes : NA

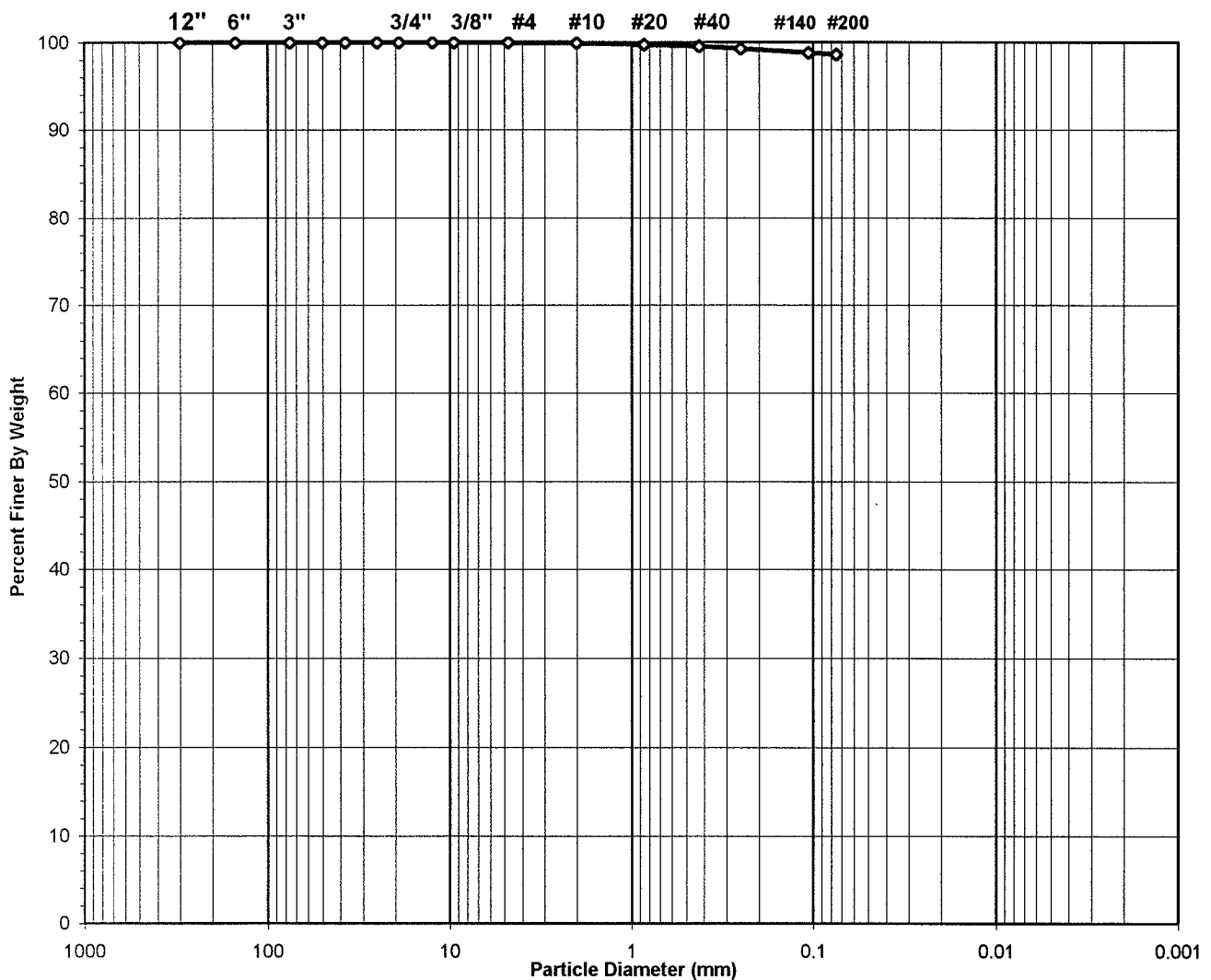
Tested By	JP	Date	1/26/06	Checked By	YJB	Date	1-31-06
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page 1 of 1 DCN: CT-S1 DATE 6-30-98 REVISION: 2 C:\MSOFFICE\Excel\PrintQ\T181.xls\Sheet1

SIEVE ANALYSIS
 ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Processing Facility 20430	Depth (ft)	NA
Project No.	2006-030-01	Sample No.	GT-411
Lab ID	2006-030-01-01	Soil Color	BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **CH, TESTED**

USCS Classification **FAT CLAY**

Tested By JP Date 1/31/06 Checked By *KJB* Date *2-3-06*



WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Processing Facility 20430	Depth (ft)	NA
Project No.	2006-030-01	Sample No.	GT-411
Lab ID	2006-030-01-01	Soil Color	BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	966	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	762.70	Wgt. Tare + Wet Specimen (gm)	NA
Wgt. Tare + Dry Specimen (gm)	719.50	Wgt. Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	103.07	Weight of Tare (gm)	NA
Weight of Water (gm)	43.20	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	616.43	Weight of Dry Soil (gm)	NA
Moisture Content (%)	7.0	Moisture Content (%)	NA

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	616.43
Dry Weight - 3/4" Sample (gm)	8.8	Weight of minus #200 material (gm)	607.64
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	8.79
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.00	0.00	100.00	100.00
6"	150	0.00	0.00	0.00	100.00	100.00
3"	75	0.00	0.00	0.00	100.00	100.00
2"	50	0.00	0.00	0.00	100.00	100.00
1 1/2"	37.5	0.00	0.00	0.00	100.00	100.00
1"	25.0	0.00	0.00	0.00	100.00	100.00
3/4"	19.0	0.00	0.00	0.00	100.00	100.00
1/2"	12.50	0.00	0.00	0.00	100.00	100.00
3/8"	9.50	0.00	0.00	0.00	100.00	100.00
#4	4.75	0.00	0.00	0.00	100.00	100.00
#10	2.00	0.55	0.09	0.09	99.91	99.91
#20	0.850	1.00	0.16	0.25	99.75	99.75
#40	0.425	1.49	0.24	0.49	99.51	99.51
#60	0.250	1.51	0.24	0.74	99.26	99.26
#140	0.106	2.68	0.43	1.17	98.83	98.83
#200	0.075	1.56	0.25	1.43	98.57	98.57
Pan	-	607.64	98.57	100.00	-	-

Tested By JP Date 1/31/06 Checked By YKB Date 2-3-06

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Processing Facility 20430	Depth (ft)	NA
Project No.	2006-030-01	Sample No.	GT-411
Lab ID	2006-030-01-01	Soil Description	BROWN FAT CLAY

Note: The USCS symbol used with this test refers only to the minus No. 40 (Minus No. 40 sieve material, Airdried) sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description.

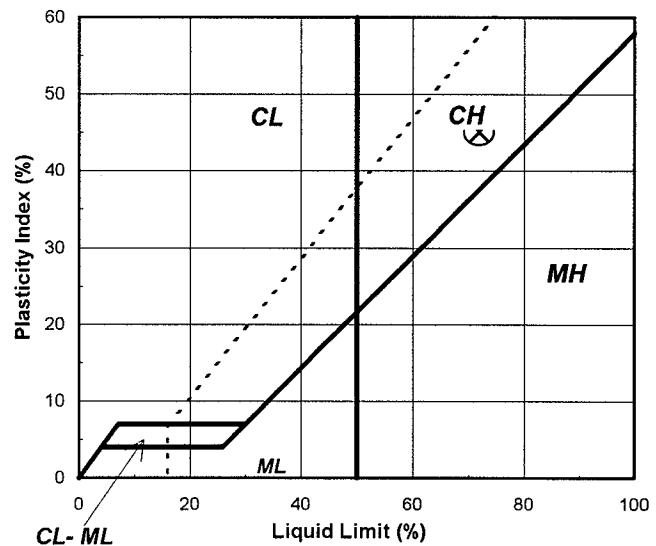
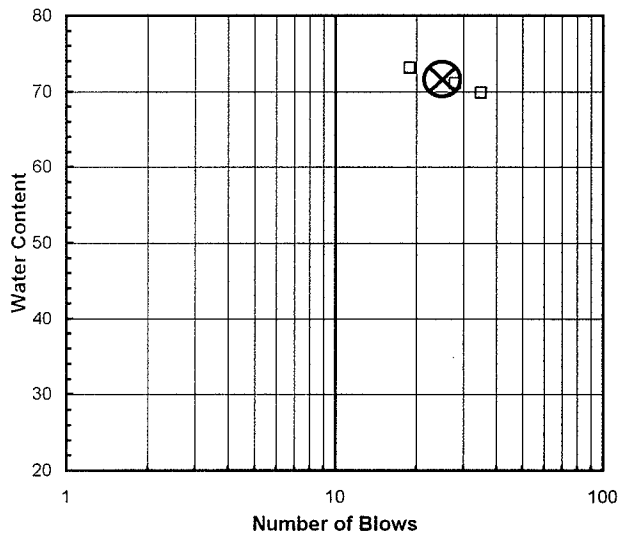
Liquid Limit Test	1	2	3	
Tare Number	194	230	232	M
Wt. of Tare & WS (gm)	39.86	40.30	41.18	U
Wt. of Tare & DS (gm)	30.35	31.15	31.36	L
Wt. of Tare (gm)	16.72	18.28	17.92	T
Wt. of Water (gm)	9.5	9.2	9.8	I
Wt. of DS (gm)	13.6	12.9	13.4	P
Moisture Content (%)	69.8	71.1	73.1	O
Number of Blows	35	28	19	I
				N
				T

Plastic Limit Test	1	2	Range	Test Results	
Tare Number	250	2227		Liquid Limit (%)	72
Wt. of Tare & WS (gm)	23.65	25.05		Plastic Limit (%)	27
Wt. of Tare & DS (gm)	22.37	23.75		Plasticity Index (%)	45
Wt. of Tare (gm)	17.54	18.85		USCS Symbol	CH
Wt. of Water (gm)	1.3	1.3			
Wt. of DS (gm)	4.8	4.9			
Moisture Content (%)	26.5	26.5	0.0		

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve

Plasticity Chart



Tested By BS Date 2/2/06 Checked By YHR Date 2-3-06

page 1 of 1 DCN: CT-S4B DATE: 10/8/01 REVISION: 2

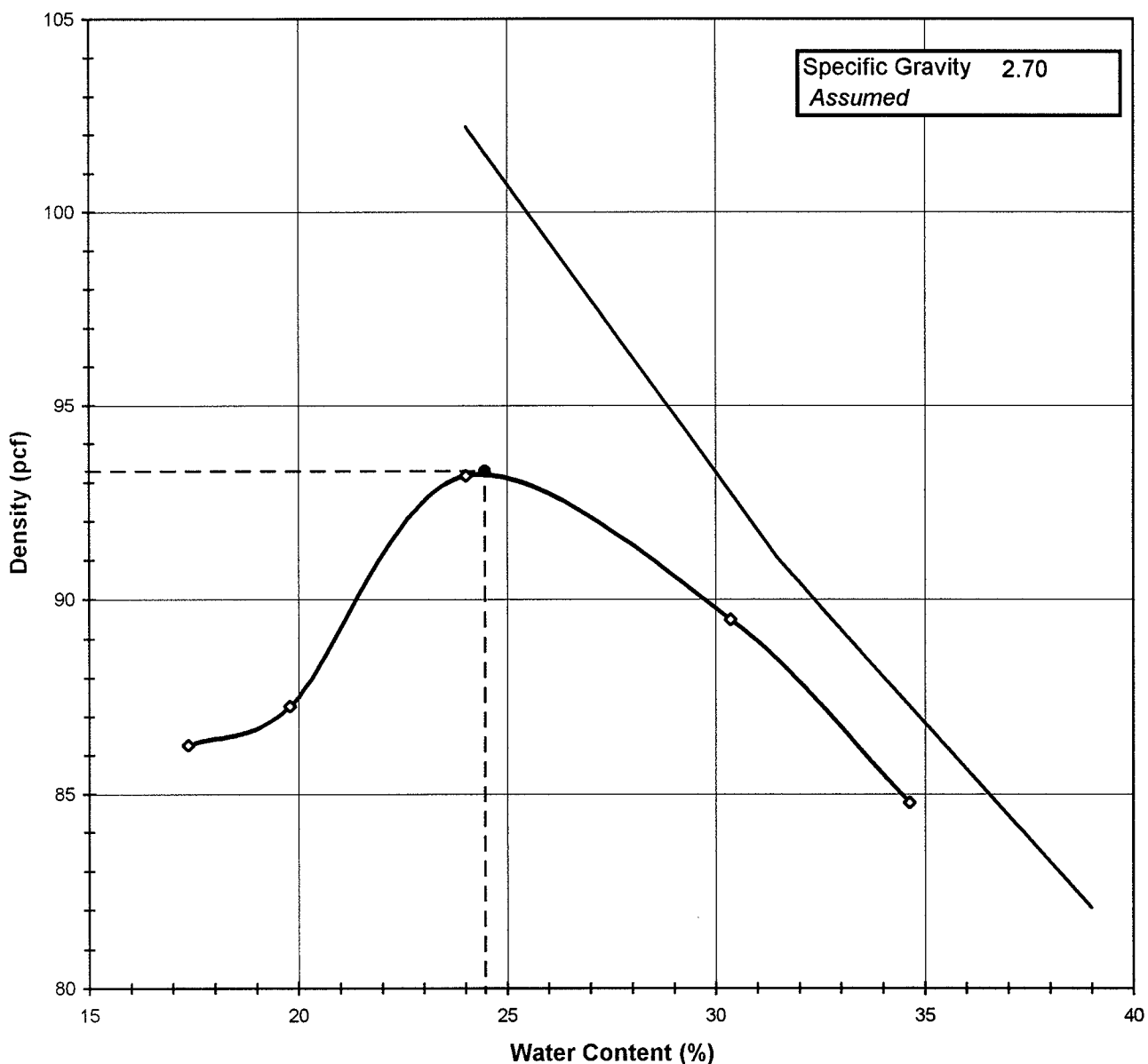
MOISTURE DENSITY RELATIONSHIP

ASTM D698-00 SOP-S12

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Processing Facility 20430	Depth (ft)	NA
Project No.	2006-030-01	Sample No.	GT-411
Lab ID	2006-030-01-01	Test Method	STANDARD

Visual Description BROWN CLAY

Optimum Water Content 24.5
Maximum Dry Density 93.3



Tested By MF Date 1/30/06 Checked By YHB Date 1-31-06

MOISTURE - DENSITY RELATIONSHIP

ASTM D698-00 SOP-S12

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Processing Facility 20430	Depth (ft)	NA
Project No.	2006-030-01	Sample No.	GT-411
Lab ID	2006-030-01-01		

Visual Description BROWN CLAY

Total Weight of the Sample (gm)	NA
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	NA
Percent Retained on #4	NA
Oversize Material	Not included
Procedure Used	B

TestType	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	G 441
Mold ID	G 606
Mold diameter	4"
Weight of the Mold	4213
Volume of the Mold(cc)	943

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5743	5793	5959	5976	5938
Wt. of Mold (gm)	4213	4213	4213	4213	4213
Wt. of WS	1530	1580	1746	1763	1725
Mold Volume (cc)	943	943	943	943	943

Moisture Content / Density

Tare Number	577	607	570	538	540
Wt. of Tare & WS (gm)	377.97	373.90	396.72	389.34	380.74
Wt. of Tare & DS (gm)	334.56	325.81	336.27	317.79	304.30
Wt. of Tare (gm)	84.58	82.89	84.51	82.15	83.63
Wt. of Water (gm)	43.41	48.09	60.45	71.55	76.44
Wt. of DS (gm)	249.98	242.92	251.76	235.64	220.67

Wet Density (gm/cc)	1.62	1.68	1.85	1.87	1.83
Wet Density (pcf)	101.2	104.6	115.5	116.7	114.1
Moisture Content (%)	17.4	19.8	24.0	30.4	34.6
Dry Density (pcf)	86.3	87.3	93.2	89.5	84.8

Zero Air Voids

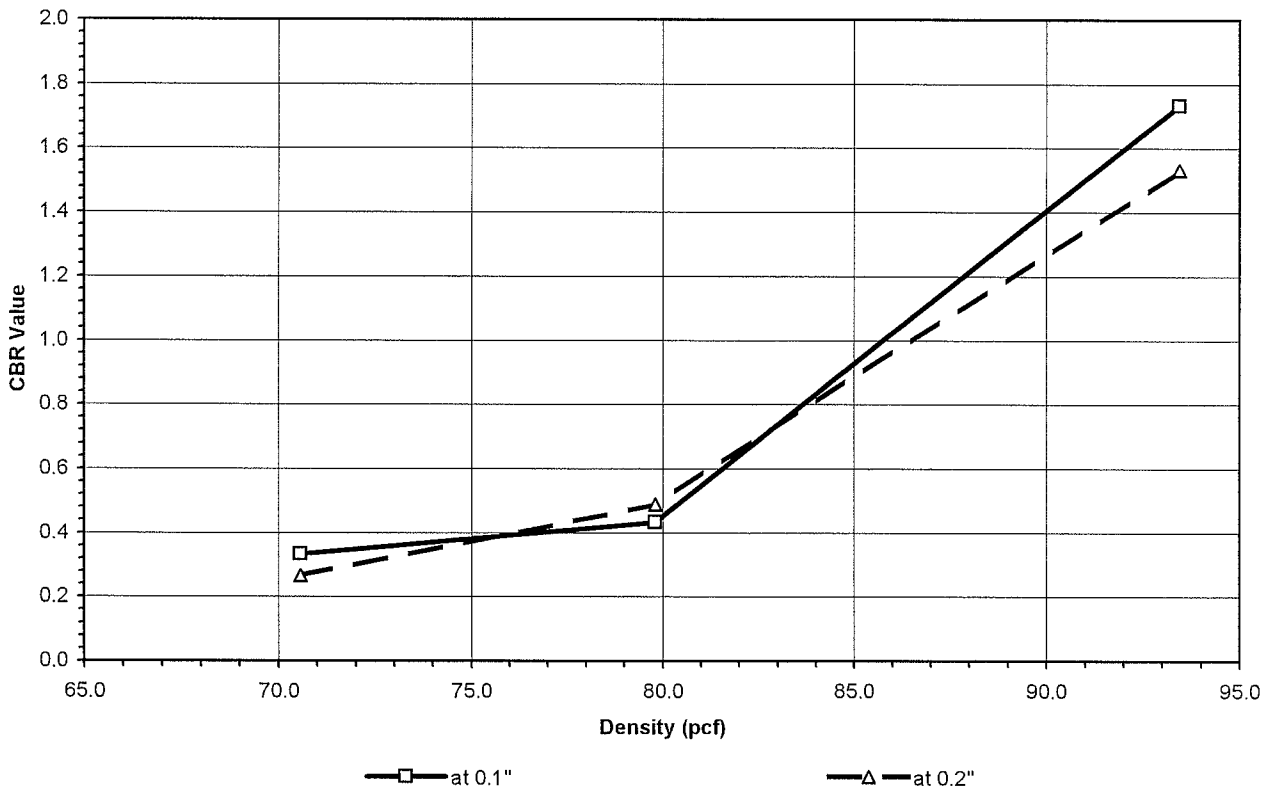
Moisture Content (%)	24.0	31.5	39.0
Dry Unit Weight (pcf)	102.2	91.0	82.1

Tested By MF Date 1/30/06 Checked By *YKB* Date 1-31-06

3 POINT CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Processing Facility 20430	Depth(ft.)	NA
Project no.	2006-030-01	Sample No.	GT-411
Lab ID	2006-030-01-01	Visual Description	BROWN CLAY

Point No.	1	2	3
Blows per Layer	10	25	65
Dry Density (pcf)	70.6	79.8	93.5
Dry Density (g/cc)	1.13	1.28	1.50
Corrected Penetration Stress @ 0.1"	3.33	4.33	17.33
Corrected Penetration Stress @ 0.2"	4.00	7.33	23.00
Corrected CBR Values @ 0.1"	0.33	0.43	1.73
Corrected CBR Values @ 0.2"	0.27	0.49	1.53

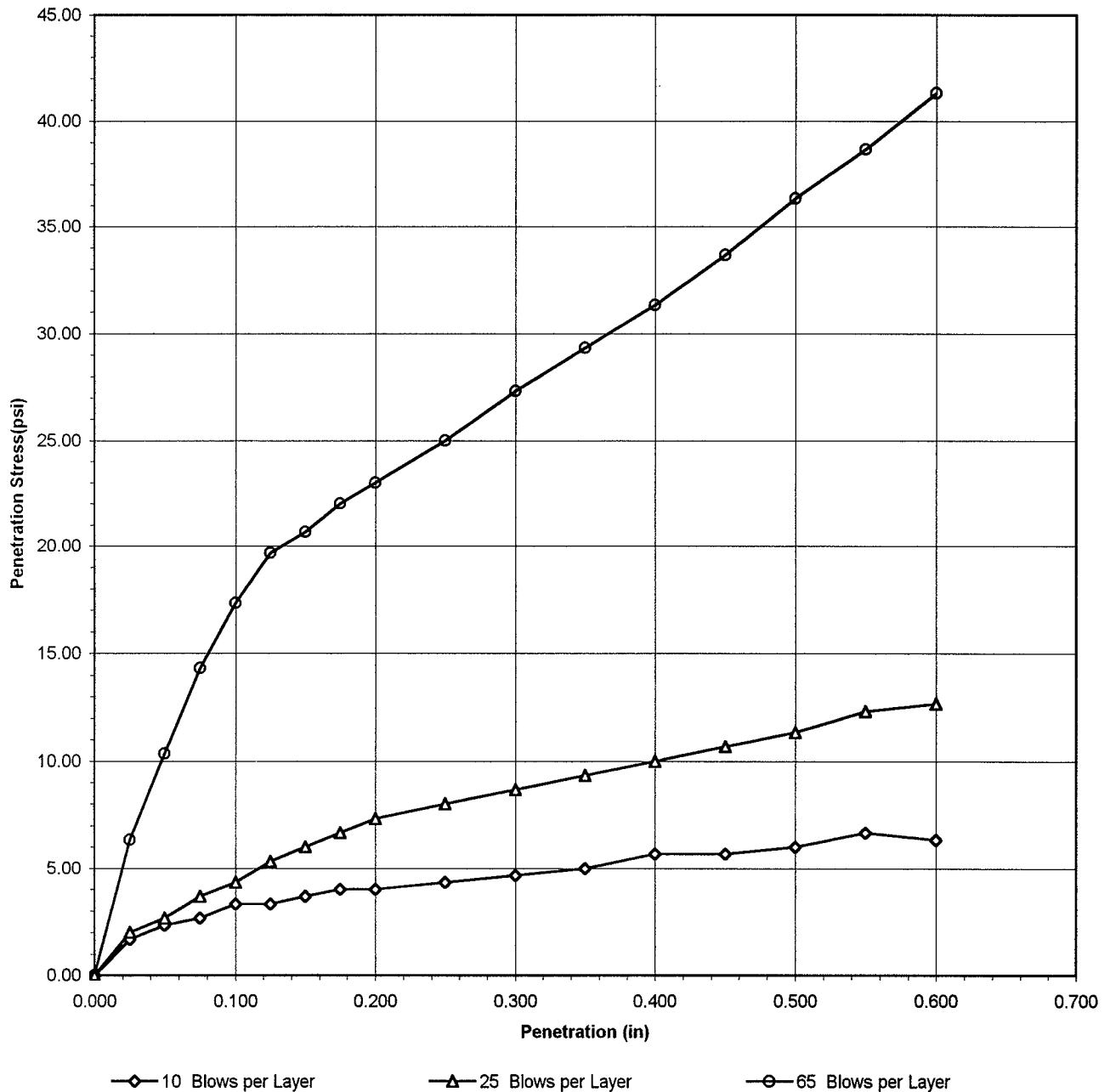


Tested By JP Date 02/02/06 Approved By DB Date 2/8/06

3 POINT CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Processing Facility 20430	Depth(ft.)	NA
Project No.	2006-030-01	Sample No.	GT-411
Lab ID	2006-030-01-01	Visual Description	BROWN CLAY

Penetration Stress vs. Penetration



Tested By JP Date 2/2/06 Approved By DB Date 2/8/06

3 POINT CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Processing Facility 20430	Depth(ft.)	NA
Project No.	2006-030-01	Sample No.	GT-411
Lab ID	2006-030-01-01	Visual Description	BROWN CLAY

Test Type	STANDARD			
Molding Method	C	Density	Before	After
Mold ID	1084	Measurement	Soaking	Soaking
Wt. of Mold (gm.)	7178	Wt. Mold & WS (gm.)	10157	10617
Mold Volume (cc)	2124	Wt. WS (gm.)	2979	3439
Surcharge (lbs.)	15	Sample Volume (cc)	2124	2141
Piston Area (in ²)	3	Wet Density (gm./cc)	1.40	1.61
Sample Height	4.58	Wet Density (pcf)	87.5	100.2
Sample Conditions	Soaked			
Blows per Layer	10	Dry Density (pcf)	70.6	70.7
		Dry Density (gm./cc)	1.13	1.13

Water Contents	As Rec'd	Beginning Compaction	After Compaction	Before Soaking	After Soaking	Top 1" After Soak
Tare No.	NA	609	890	890	637	591
Wt. of T+WS (gm.)	NA	311.99	291.7	291.7	650.9	434.06
Wt. of T+DS (gm.)	NA	267.9	256.49	256.49	489.15	335.63
Wt of Tare (gm.)	NA	81.85	110	110	101.44	87.41
Moisture Content(%)	NA	23.7	24.0	24.0	41.7	39.7

Piston Displacement (in.)	Load (lbs.)	Penetration Stress (psi.)	Swell Measurement		
			Elapsed Time (hrs)	Dial Gauge (Div)	Percent Swell
0	0	0.0			
0.025	5	1.7			
0.050	7	2.3			
0.075	8	2.7			
0.100	10	3.3	0.00	486	0.00%
0.125	10	3.3	0.08	520	0.74%
0.150	11	3.7	0.25	519	0.72%
0.175	12	4.0	0.75	515	0.63%
0.200	12	4.0	3.25	515	0.63%
0.250	13	4.3	21.25	518	0.70%
0.300	14	4.7	27.25	518	0.70%
0.350	15	5.0	48.75	519	0.72%
0.400	17	5.7	71.75	522	0.79%
0.450	17	5.7	99.92	523	0.81%
0.500	18	6.0	116.25	523	0.81%
0.550	20	6.7			
0.600	19	6.3			

1Division = 0.001 in.

Tested By JP Date 2/2/06 Checked By YAB Date 2-8-06

3 POINT CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Processing Facility 20430	Depth(ft.)	NA
Project No.	2006-030-01	Sample No.	GT-411
Lab ID	2006-030-01-01	Visual Description	BROWN CLAY

Test Type	STANDARD			
Molding Method	C	Density	Before	After
Mold ID	1085	Measurement	Soaking	Soaking
Wt. of Mold (gm.)	7270	Wt. Mold & WS (gm.)	10617	11021
Mold Volume (cc)	2124	Wt. WS (gm.)	3347	3751
Surcharge (lbs.)	15	Sample Volume (cc)	2124	2206
Piston Area (in ²)	3	Wet Density (gm./cc)	1.58	1.70
Sample Height	4.58	Wet Density (pcf)	98.3	106.1
Sample Conditions	Soaked			
Blows per Layer	25	Dry Density (pcf)	79.8	77.8
		Dry Density (gm./cc)	1.28	1.25

Water Contents	As Rec'd	Begining Compaction	After Compaction	Before Soaking	After Soaking	Top 1" After Soak
Tare No.	NA	574	729	729	669	916
Wt. of T+WS (gm.)	NA	278.58	341.42	341.42	1008.6	416.26
Wt. of T+DS (gm.)	NA	240.79	293.38	293.38	765.6	333.13
Wt of Tare (gm.)	NA	83.5	86.44	86.44	96.67	109.9
Moisture Content(%)	NA	24.0	23.2	23.2	36.3	37.2

Piston Displacement (in.)	Load (lbs.)	Penetration Stress (psi.)	Swell Measurement		
			Elapsed Time (hrs)	Dial Gauge (Div)	Percent Swell
0	0	0.0			
0.025	6	2.0			
0.050	8	2.7			
0.075	11	3.7			
0.100	13	4.3	0.00	330	0.00%
0.125	16	5.3	0.08	441	2.42%
0.150	18	6.0	0.25	471	3.08%
0.175	20	6.7	0.75	485	3.38%
0.200	22	7.3	3.25	495	3.60%
0.250	24	8.0	21.25	501	3.73%
0.300	26	8.7	27.25	502	3.76%
0.350	28	9.3	48.75	502	3.76%
0.400	30	10.0	71.75	506	3.84%
0.450	32	10.7	99.92	506	3.84%
0.500	34	11.3	116.25	507	3.86%
0.550	37	12.3			
0.600	38	12.7			

1Division = 0.001 in.

Tested By JP Date 2/2/06 Checked By YKB Date 2-8-06



3 POINT CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Processing Facility 20430	Depth(ft.)	NA
Project No.	2006-030-01	Sample No.	GT-411
Lab ID	2006-030-01-01	Visual Description	BROWN CLAY

Test Type	STANDARD			
Molding Method	C	Density	Before	After
Mold ID	13	Measurement	Soaking	Soaking
Wt. of Mold (gm.)	7250	Wt. Mold & WS (gm.)	11196	11381
Mold Volume (cc)	2124	Wt. WS (gm.)	3946	4131
Surcharge (lbs.)	15	Sample Volume (cc)	2124	2216
Piston Area (in ²)	3	Wet Density (gm./cc)	1.86	1.86
Sample Height	4.58	Wet Density (pcf)	115.9	116.3
Sample Conditions	Soaked			
Blows per Layer	65	Dry Density (pcf)	93.5	92.0
		Dry Density (gm./cc)	1.50	1.47

Water Contents	As Rec'd	Beginning Compaction	After Compaction	Before Soaking	After Soaking	Top 1" After Soak
Tare No.	NA	1126	604	604	692	ZY
Wt. of T+WS (gm.)	NA	296.7	288.04	288.04	750.7	428.73
Wt. of T+DS (gm.)	NA	255.59	249.08	249.08	613.9	347.25
Wt of Tare (gm.)	NA	84.78	87.1	87.1	97.09	85.43
Moisture Content(%)	NA	24.1	24.1	24.1	26.5	31.1

Piston Displacement (in.)	Load (lbs.)	Penetration Stress (psi.)	Swell Measurement		
			Elapsed Time (hrs)	Dial Gauge (Div)	Percent Swell
0	0	0.0			
0.025	19	6.3			
0.050	31	10.3			
0.075	43	14.3			
0.100	52	17.3	0.00	435	0.00%
0.125	59	19.7	0.08	470	0.76%
0.150	62	20.7	0.25	487	1.14%
0.175	66	22.0	0.75	509	1.62%
0.200	69	23.0	3.25	532	2.12%
0.250	75	25.0	21.25	581	3.19%
0.300	82	27.3	27.25	591	3.41%
0.350	88	29.3	48.75	610	3.82%
0.400	94	31.3	71.75	621	4.06%
0.450	101	33.7	99.92	630	4.26%
0.500	109	36.3	116.25	633	4.32%
0.550	116	38.7			
0.600	124	41.3			
			1Division =	0.001	in.

Tested By JP Date 2/2/06 Checked By YJR Date 2-8-06

SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Processing Facility 20430	Depth (ft)	NA
Project No.	2006-030-01	Sample No.	GT-425
Lab ID	2006-030-01-02	Soil Color	BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **SP-SM, TESTED** D60 = **0.3** CC = **1.0**

USCS Classification **POORLY GRADED SAND WITH SILT (NON-PLASTIC FINES)** D30 = **0.2** CU = **3.9**

D10 = **0.1**

Tested By **PC** Date **2/3/06** Checked By **HYB** Date **2-3-06**



WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Processing Facility 20430	Depth (ft)	NA
Project No.	2006-030-01	Sample No.	GT-425
Lab ID	2006-030-01-02	Soil Color	BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	514	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	1003.00	Wgt. Tare + Wet Specimen (gm)	NA
Wgt. Tare + Dry Specimen (gm)	882.50	Wgt. Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	96.76	Weight of Tare (gm)	NA
Weight of Water (gm)	120.50	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	785.74	Weight of Dry Soil (gm)	NA
Moisture Content (%)	15.3	Moisture Content (%)	NA

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	785.74
Dry Weight - 3/4" Sample (gm)	709.0	Weight of minus #200 material (gm)	76.78
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	708.96
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.00	0.00	100.00	100.00
6"	150	0.00	0.00	0.00	100.00	100.00
3"	75	0.00	0.00	0.00	100.00	100.00
2"	50	0.00	0.00	0.00	100.00	100.00
1 1/2"	37.5	0.00	0.00	0.00	100.00	100.00
1"	25.0	0.00	0.00	0.00	100.00	100.00
3/4"	19.0	0.00	0.00	0.00	100.00	100.00
1/2"	12.50	0.00	0.00	0.00	100.00	100.00
3/8"	9.50	0.00	0.00	0.00	100.00	100.00
#4	4.75	0.29	0.04	0.04	99.96	99.96
#10	2.00	2.30	0.29	0.33	99.67	99.67
#20	0.850	16.92	2.15	2.48	97.52	97.52
#40	0.425	136.64	17.39	19.87	80.13	80.13
#60	0.250	230.15	29.29	49.16	50.84	50.84
#140	0.106	289.16	36.80	85.96	14.04	14.04
#200	0.075	33.50	4.26	90.23	9.77	9.77
Pan	-	76.78	9.77	100.00	-	-

Tested By PC Date 2/3/06 Checked By KYB Date 2-3-06



ATTERBERG LIMIT
ASTM D 4318-00 (SOP - S4)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Processing Facility 20430	Depth (ft)	NA
Project No.	2006-030-01	Sample No.	GT-425
Lab ID	2006-030-01-02	Visual Description	BROWN SILT (Minus No. 40 sieve material, Airdried)

**NON - PLASTIC
MATERIAL**

Tested By JP *Date* 1/30/06 *Checked By* YAB *Date* 1-30-06

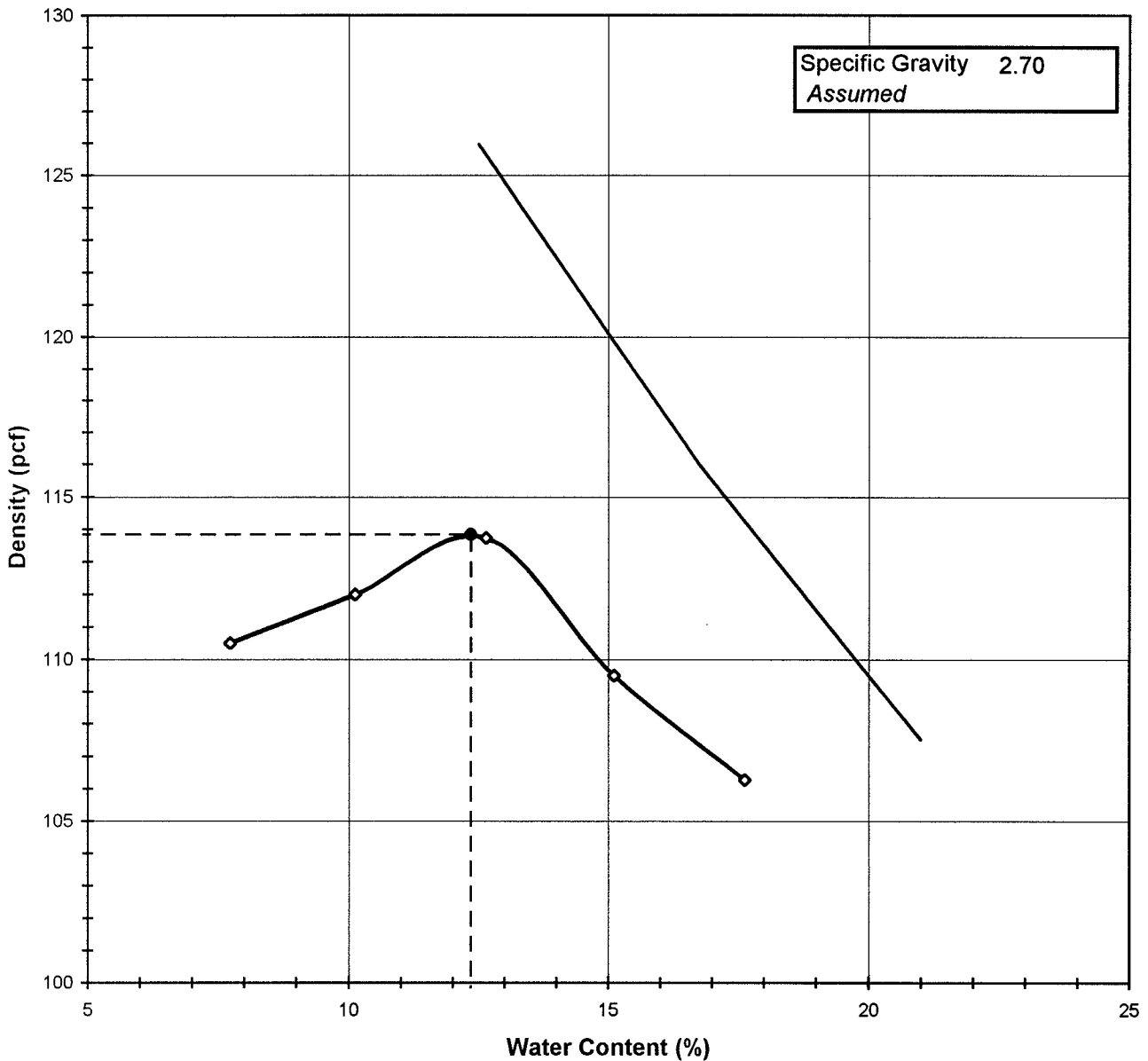


MOISTURE DENSITY RELATIONSHIP

ASTM D698-00 SOP-S12

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Processing Facility 20430	Depth (ft)	NA
Project No.	2006-030-01	Sample No.	GT-425
Lab ID	2006-030-01-02	Test Method	STANDARD
Visual Description	BROWN FINE SAND		

Optimum Water Content **12.4**
Maximum Dry Density **113.9**



Tested By MF Date 2/1/06 Checked By *KPB* Date 2-2-06

MOISTURE - DENSITY RELATIONSHIP

ASTM D698-00 SOP-S12

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Processing Facility 20430	Depth (ft)	NA
Project No.	2006-030-01	Sample No.	GT-425
Lab ID	2006-030-01-02		

Visual Description **BROWN FINE SAND**

Total Weight of the Sample (gm)	NA
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	NA
Percent Retained on #4	NA
Oversize Material	Not included
Procedure Used	B

TestType	STANDARD	
Rammer Weight (lbs)	5.5	
Rammer Drop (in)	12	
Rammer Type	MECHANICAL	
Machine ID	G	441
Mold ID	G	606
Mold diameter	4"	
Weight of the Mold	4212	
Volume of the Mold(cc)	943	

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	6011	6076	6148	6117	6101
Wt. of Mold (gm)	4212	4212	4212	4212	4212
Wt. of WS	1799	1864	1936	1905	1889
Mold Volume (cc)	943	943	943	943	943

Moisture Content / Density

Tare Number	542	605	892	570	873
Wt. of Tare & WS (gm)	435.30	471.80	485.20	452.50	546.40
Wt. of Tare & DS (gm)	409.98	436.37	443.09	404.19	480.94
Wt. of Tare (gm)	82.24	86.50	109.93	84.48	109.53
Wt. of Water (gm)	25.32	35.43	42.11	48.31	65.46
Wt. of DS (gm)	327.74	349.87	333.16	319.71	371.41

Wet Density (gm/cc)	1.91	1.98	2.05	2.02	2.00
Wet Density (pcf)	119.0	123.3	128.1	126.1	125.0
Moisture Content (%)	7.7	10.1	12.6	15.1	17.6
Dry Density (pcf)	110.5	112.0	113.7	109.5	106.3

Zero Air Voids

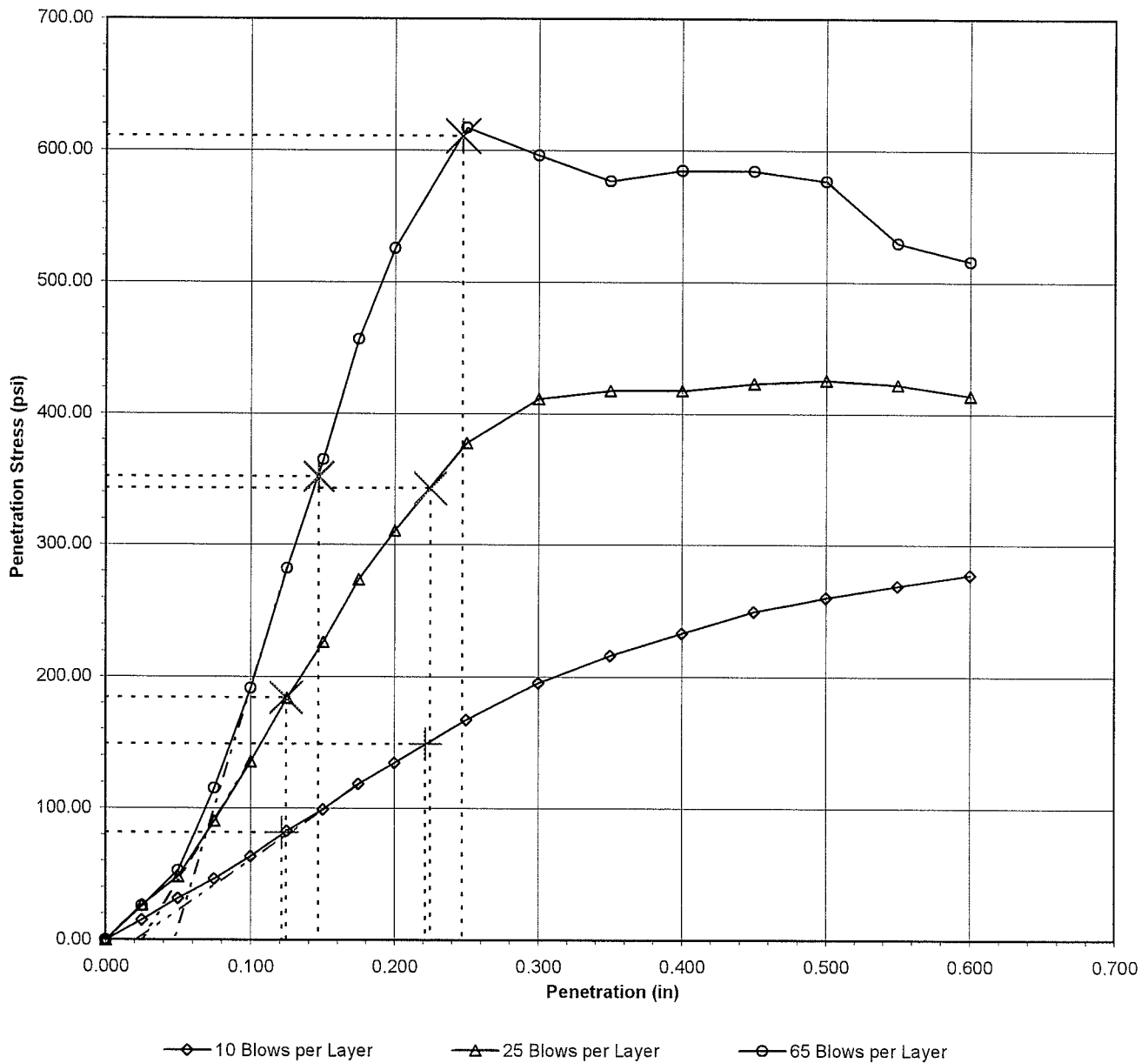
Moisture Content (%)	12.5	16.7	21.0
Dry Unit Weight (pcf)	126.0	116.0	107.5

Tested By MF Date 2/1/06 Checked By YKB Date 2-2-06

3 POINTS CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Processing Facility 20430	Depth (ft.)	NA
Project No.	2006-030-01	Sample No.	GT-425
Lab ID	2006-030-01-02	Visual Description	BROWN FINE SAND

Penetration Stress vs. Penetration

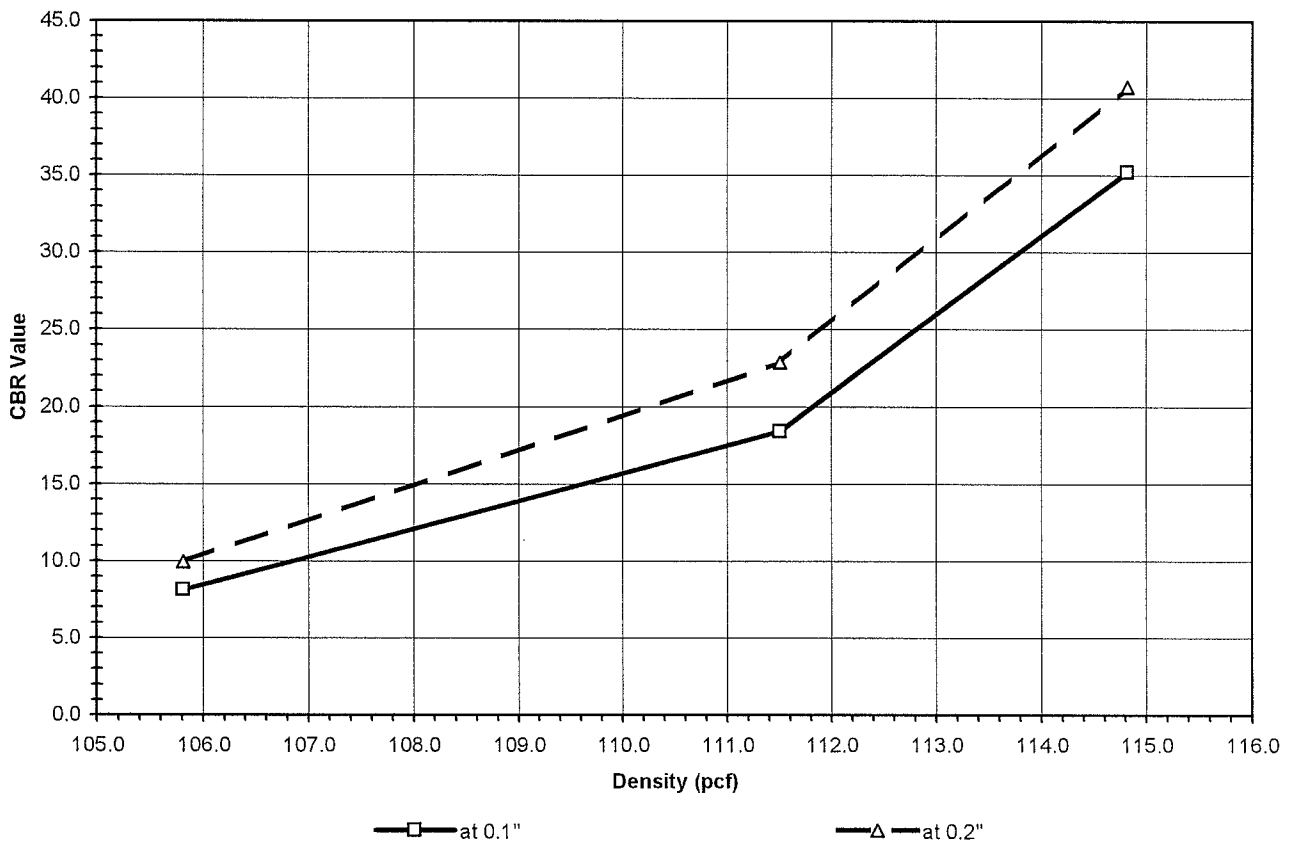


Tested By JP Date 02/08/06 Approved By DB Date 2/15/06

3 POINTS CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Processing Facility 20430	Depth(ft.)	NA
Project No.	2006-030-01	Sample No.	GT-425
Lab ID	2006-030-01-02	Visual Description	BROWN FINE SAND

Point No.	1	2	3
Blows per Layer	10	25	65
Dry Density (pcf)	105.8	111.5	114.8
Dry Density (g/cc)	1.70	1.79	1.84
Corrected Penetration Stress @ 0.1"	81.40	184.00	352.00
Corrected Penetration Stress @ 0.2"	149.00	343.00	611.00
Corrected CBR Values @ 0.1"	8.14	18.40	35.20
Corrected CBR Values @ 0.2"	9.93	22.87	40.73



Tested By JP Date 02/08/06 Approved By DB Date 2/15/06

3 POINT CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Processing Facility 20430	Depth(ft.)	NA
Project No.	2006-030-01	Sample No.	GT-425
Lab ID	2006-030-01-02	Visual Description	BROWN FINE SAND

Test Type	STANDARD			
Molding Method	C	Density	Before	After
Mold ID	17	Measurement	Soaking	Soaking
Wt. of Mold (gm.)	7193	Wt. Mold & WS (gm.)	11239	11422
Mold Volume (cc)	2124	Wt. WS (gm.)	4046	4229
Surcharge (lbs.)	15	Sample Volume (cc)	2124	2126
Piston Area (in ²)	3	Wet Density (gm./cc)	1.90	1.99
Sample Height	4.58	Wet Density (pcf)	118.9	124.1
Sample Conditions	Soaked			
Blows per Layer	10	Dry Density (pcf)	105.8	106.8
		Dry Density (gm./cc)	1.70	1.71

Water Contents	As Rec'd	Beginning Compaction	After Compaction	Before Soaking	After Soaking	Top 1" After Soak
Tare No.	NA	886	901	901	1682	904
Wt. of T+WS (gm.)	NA	319.49	306.02	306.02	943.6	391.6
Wt. of T+DS (gm.)	NA	297.31	284.53	284.53	826.1	352.85
Wt of Tare (gm.)	NA	109.85	110.3	110.3	101.05	110.04
Moisture Content(%)	NA	11.8	12.3	12.3	16.2	16.0

Piston Displacement (in.)	Load (lbs.)	Penetration Stress (psi.)	Swell Measurement		
			Elapsed Time (hrs)	Dial Gauge (Div)	Percent Swell
0	0	0.0			
0.025	46	15.3			
0.050	95	31.7			
0.075	139	46.3			
0.100	190	63.3	0.00	447	0.00%
0.125	248	82.7	0.08	448	0.02%
0.150	298	99.3	0.75	448	0.02%
0.175	356	118.7	3.25	449	0.04%
0.200	404	134.7	5.75	449.5	0.05%
0.250	502	167.3	21.25	449.5	0.05%
0.300	587	195.7	29.75	450	0.07%
0.350	649	216.3	48.75	450	0.07%
0.400	700	233.3	72.25	451	0.09%
0.450	749	249.7	96.75	451	0.09%
0.500	781	260.3	118.25	451	0.09%
0.550	807	269.0			
0.600	832	277.3			
			1Division =	0.001 in.	

Tested By JP Date 2/8/06 Checked By YLB Date 2-14-06

3 POINT CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Processing Facility 20430	Depth(ft.)	NA
Project No.	2006-030-01	Sample No.	GT-425
Lab ID	2006-030-01-02	Visual Description	BROWN FINE SAND

Test Type	STANDARD			
Molding Method	C	Density	Before	After
Mold ID	1085	Measurement	Soaking	Soaking
Wt. of Mold (gm.)	7269	Wt. Mold & WS (gm.)	11521	11626
Mold Volume (cc)	2124	Wt. WS (gm.)	4252	4357
Surcharge (lbs.)	15	Sample Volume (cc)	2124	2124
Piston Area (in ²)	3	Wet Density (gm./cc)	2.00	2.05
Sample Height	4.58	Wet Density (pcf)	124.9	128.0
Sample Conditions	Soaked			
Blows per Layer	25	Dry Density (pcf)	111.5	111.7
		Dry Density (gm./cc)	1.79	1.79

Water Contents	As Rec'd	Beginning Compaction	After Compaction	Before Soaking	After Soaking	Top 1" After Soak
Tare No.	NA	575	902	902	677	1131A
Wt. of T+WS (gm.)	NA	297.47	339.45	339.45	740.5	291.09
Wt. of T+DS (gm.)	NA	274.98	314.9	314.9	658.6	264.05
Wt of Tare (gm.)	NA	82.74	110.84	110.84	98.75	84.25
Moisture Content(%)	NA	11.7	12.0	12.0	14.6	15.0

Piston Displacement (in.)	Load (lbs.)	Penetration Stress (psi.)	Swell Measurement		
			Elapsed Time (hrs)	Dial Gauge (Div)	Percent Swell
0	0	0.0			
0.025	80	26.7			
0.050	144	48.0			
0.075	271	90.3			
0.100	406	135.3	0.00	428	0.00%
0.125	551	183.7	0.08	428	0.00%
0.150	680	226.7	0.75	428	0.00%
0.175	821	273.7	3.25	428	0.00%
0.200	932	310.7	5.75	428.5	0.01%
0.250	1132	377.3	21.25	428.5	0.01%
0.300	1233	411.0	29.75	428.5	0.01%
0.350	1253	417.7	48.75	428.5	0.01%
0.400	1253	417.7	72.25	428.5	0.01%
0.450	1269	423.0	96.75	428.5	0.01%
0.500	1277	425.7	118.25	428.5	0.01%
0.550	1266	422.0			
0.600	1241	413.7			

1Division = 0.001 in.

Tested By JP Date 2/8/06 Checked By JLR Date 2-14-06



3 POINT CBR TEST
ASTM D 1883-99 (SOP-S27)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Processing Facility 20430	Depth(ft.)	NA
Project No.	2006-030-01	Sample No.	GT-425
Lab ID	2006-030-01-02	Visual Description	BROWN FINE SAND

Test Type	STANDARD			
Molding Method	C	Density	Before	After
Mold ID	11	Measurement	Soaking	Soaking
Wt. of Mold (gm.)	7998	Wt. Mold & WS (gm.)	12379	12443
Mold Volume (cc)	2124	Wt. WS (gm.)	4381	4445
Surcharge (lbs.)	15	Sample Volume (cc)	2124	2124
Piston Area (in ²)	3	Wet Density (gm./cc)	2.06	2.09
Sample Height	4.58	Wet Density (pcf)	128.7	130.6
Sample Conditions	Soaked			
Blows per Layer	65	Dry Density (pcf)	114.8	115.4
		Dry Density (gm./cc)	1.84	1.85

Water Contents	As Rec'd	Beginning Compaction	After Compaction	Before Soaking	After Soaking	Top 1" After Soak
Tare No.	NA	1714	626	626	532	888
Wt. of T+WS (gm.)	NA	321.7	380.67	380.67	912.3	420.52
Wt. of T+DS (gm.)	NA	295.82	348.85	348.85	817.9	385.46
Wt of Tare (gm.)	NA	83.17	85.9	85.9	98.68	110.47
Moisture Content(%)	NA	12.2	12.1	12.1	13.1	12.7

Piston Displacement (in.)	Load (lbs.)	Penetration Stress (psi.)	Swell Measurement		
			Elapsed Time (hrs)	Dial Gauge (Div)	Percent Swell
0	0	0.0			
0.025	77	25.7			
0.050	158	52.7			
0.075	346	115.3			
0.100	574	191.3	0.00	274	0.00%
0.125	846	282.0	0.08	275	0.02%
0.150	1095	365.0	0.75	275	0.02%
0.175	1370	456.7	3.25	275	0.02%
0.200	1577	525.7	5.75	275	0.02%
0.250	1852	617.3	21.25	275	0.02%
0.300	1788	596.0	29.75	275	0.02%
0.350	1731	577.0	48.75	275	0.02%
0.400	1755	585.0	72.25	275	0.02%
0.450	1753	584.3	96.75	275	0.02%
0.500	1730	576.7	117.75	275	0.02%
0.550	1589	529.7			
0.600	1548	516.0			

1Division = 0.001 in.

Tested By JP Date 2/8/06 Checked By KRB Date 2-14-06