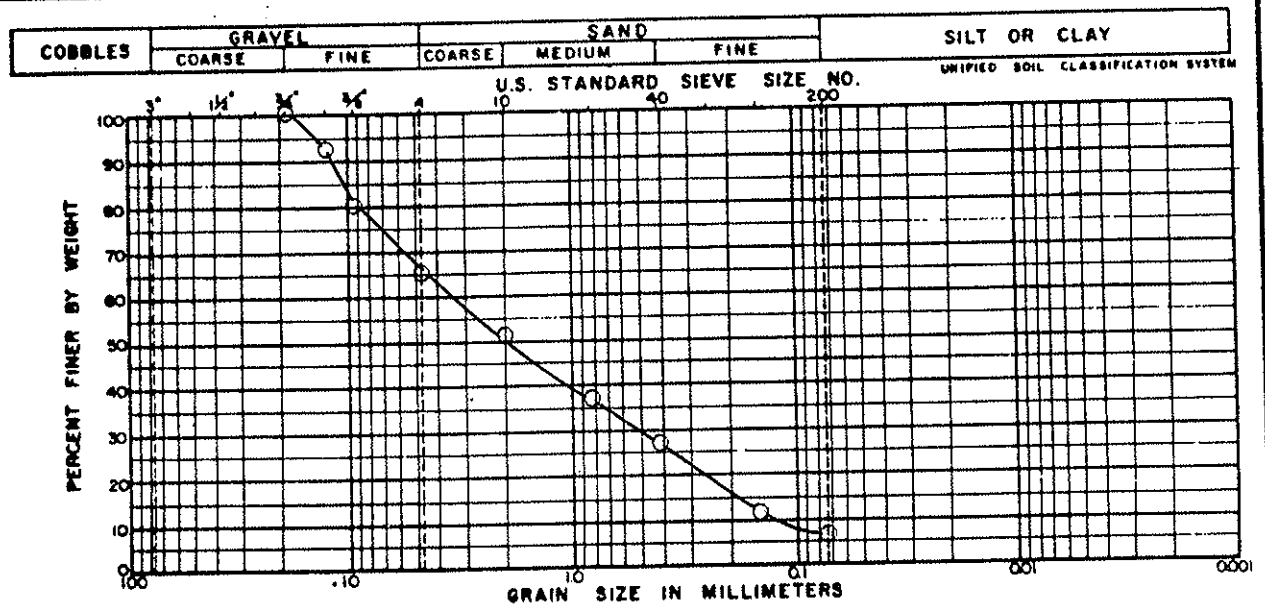
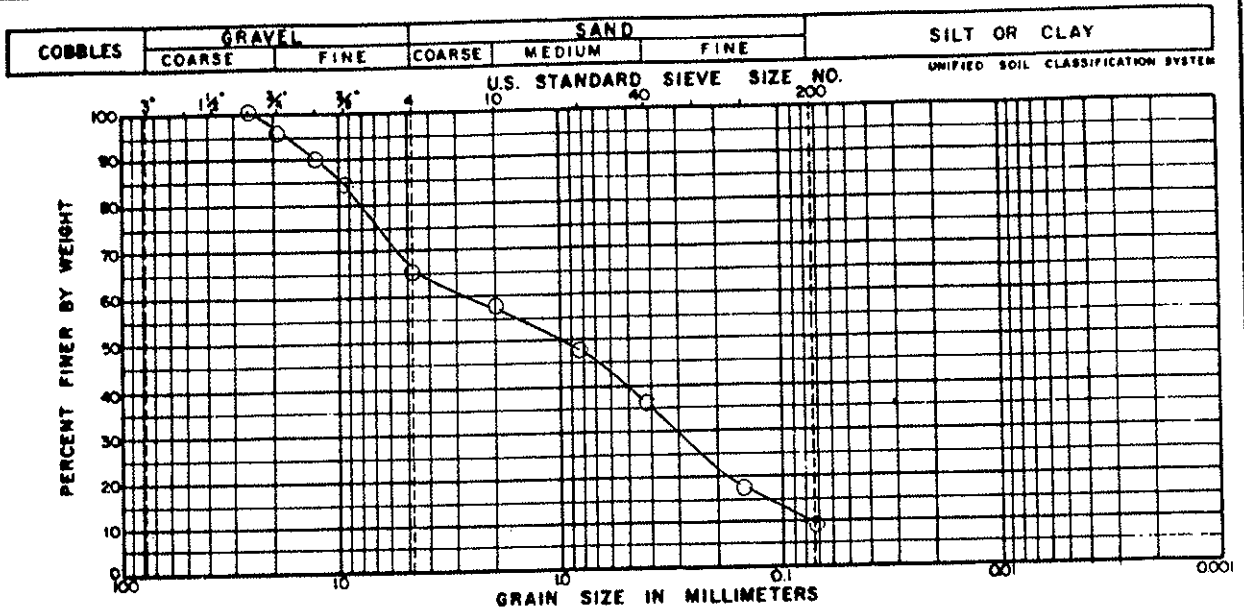


APPENDIX E

RESULTS OF LABORATORY TESTS

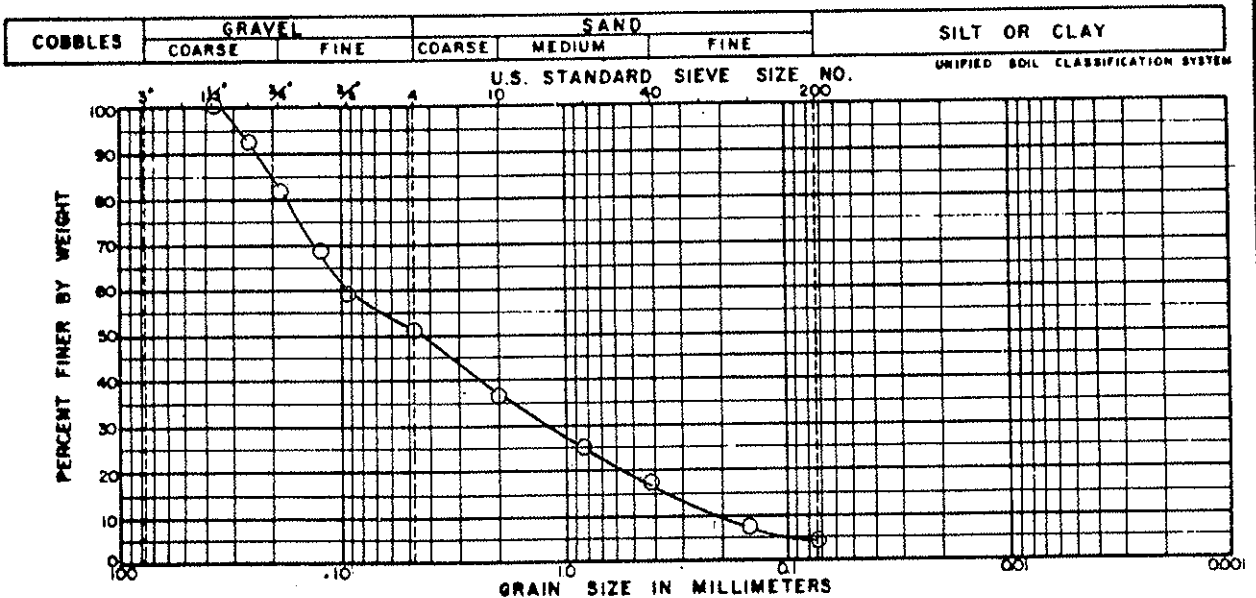
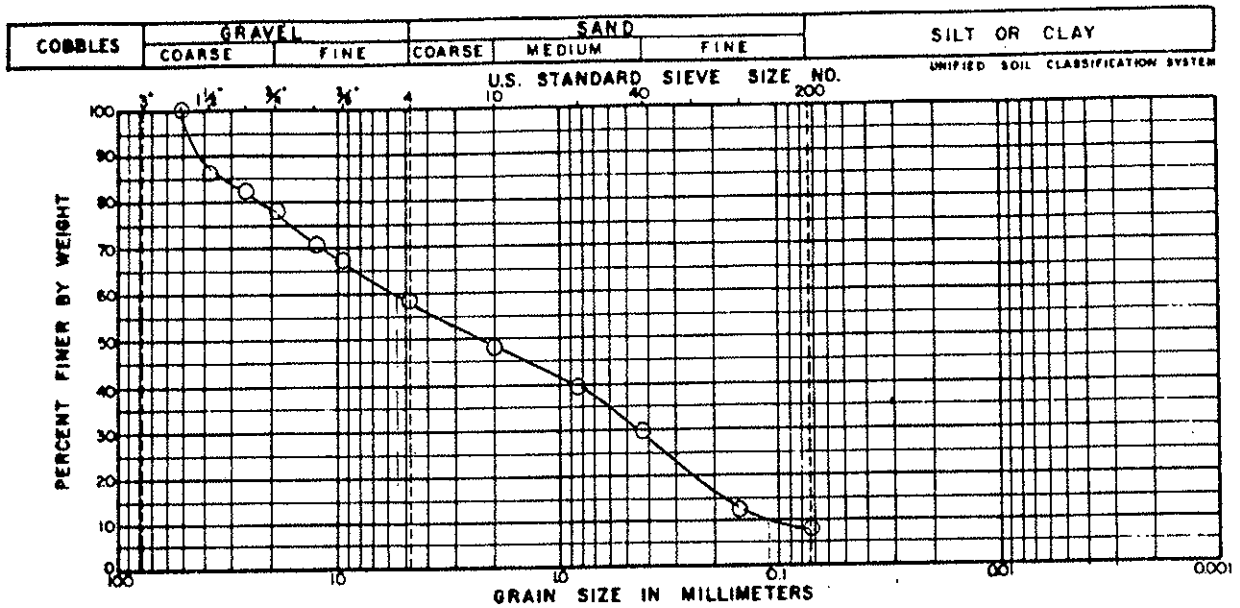
GRAIN - SIZE DISTRIBUTION



PROJ. NO.

~ 4019-0001 ~

GRAIN-SIZE DISTRIBUTION



PROJ. NO.

4019-001-020

D10

PERMEABILITY TEST
(U-TUBE PERMEAMETER)

JOB: A-D LEVEE
JOB NO.: 4019-001-020

TESTED BY: LL SR.
DATE: 8-10-10

BORING NO.: P55-6
SAMPLE NO.: 510
DEPTH: 30'-32'

AS REC'D
CONDITION

CLASSIFICATION: BR. F-M-G SAND, AND F-G GRAVEL, TR. SILT/CLAYEY SILT (SP-SM)

PERMEAMETER NO.: 65 * WITH STANDPIPE ☒ SATURATED 5.5 HOURS
** WITHOUT STANDPIPE ☐ SHEEN OBSERVED

DATA:

TEST NO. <u>1</u>	TEST NO. <u>2</u>
SAMPLE LENGTH (L): <u>13.1 cm = 5.16 in</u>	SAMPLE LENGTH (L): <u>13.1 cm = 5.16 in</u>
H ₁ : <u>31.4 cm = 12.36 in</u>	H ₁ : <u>31.4 cm = 12.36 in</u>
H ₂ : <u>21.9 cm = 8.62 in</u>	H ₂ : <u>21.9 cm = 8.62 in</u>
TIME (START) (T ₁): <u>0:00</u> ^{MIN:SECS}	TIME (START) (T ₁): <u>0:00</u> ^{MIN:SECS}
TIME (END) (T ₂): <u>7:12</u> = <u>7.2</u> mins (T)	TIME (END) (T ₂): <u>6:50</u> = <u>6.83</u> mins (T)
*r (STANDPIPE) : <u>0.415 cm = 0.16 in</u>	*r (STANDPIPE) : <u>0.415 cm = 0.16 in</u>
*R (SAMPLE) : <u>3.63 cm = 1.43 in</u>	*R (SAMPLE) : <u>3.63 cm = 1.43 in</u>
$K = 60 \times \frac{(0.16)^2}{(1.43)^2} \times \frac{5.16}{7.2} \times \ln \frac{12.36}{8.62}$	$K = 60 \times \frac{(0.16)^2}{(1.43)^2} \times \frac{5.16}{6.83} \times \ln \frac{12.36}{8.62}$
$K = 60 \times 0.0125 \times 0.717 \times 0.3604$	$K = 60 \times 0.0125 \times 0.755 \times 0.3604$
$K = 0.19 \text{ in/hr}$	$K = 0.20 \text{ in/hr}$
$K = 1.34 \times 10^{-4} \text{ cm/sec}$	$K = 1.41 \times 10^{-4} \text{ cm/sec}$

AVERAGE K VALUE = $1.38 \times 10^{-4} \text{ cm/sec}$

AS REC'D CONDITION

very slight cloudiness
noted in spill water.

$$*K = 60 \text{ (mins/hr.)} \times \frac{r^2}{R^2} \times \frac{L \text{ (in)}}{T \text{ (mins)}} \times \ln \frac{H_1}{H_2}$$

$$**K = 60 \text{ (mins/hr.)} \times \frac{L \text{ (in)}}{T \text{ (mins)}} \times \ln \frac{H_1}{H_2}$$



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PERMEABILITY TEST
(U-TUBE PERMEAMETER)

JOB: A-D LEVEE
JOB NO.: 4019-001-020

TESTED BY: LL SR.
DATE: 8-10-10

BORING NO.: PSS-6
SAMPLE NO.: 510
DEPTH: 30'-32'

DENSIFIED

CLASSIFICATION: BR. F-M-G SAND, AND F-G GRAVEL, TR. SILT/CLAYEY SILT (SP-SM)

PERMEAMETER NO.: 65 * WITH STANDPIPE ☒

** WITHOUT STANDPIPE ☐

DATA:

TEST NO. <u>1</u>	TEST NO. <u>2</u>
SAMPLE LENGTH (L): <u>12.6 cm = 4.96 in</u>	SAMPLE LENGTH (L): <u>12.6 cm = 4.96 in</u>
H ₁ : <u>31.4 cm = 12.36 in</u>	H ₁ : <u>31.4 cm = 12.36 in</u>
H ₂ : <u>21.9 cm = 8.62 in</u>	H ₂ : <u>21.9 cm = 8.62 in</u>
TIME (START) (T ₁): <u>0:00</u> = <u>11.25 mins (T)</u>	TIME (START) (T ₁): <u>0:00</u> = <u>10.78 mins (T)</u>
TIME (END) (T ₂): <u>11:15</u>	TIME (END) (T ₂): <u>10:47</u>
*r (STANDPIPE) : <u>0.415 cm = 0.16 in</u>	*r (STANDPIPE) : <u>0.415 cm = 0.16 in</u>
*R (SAMPLE) : <u>3.63 cm = 1.43 in</u>	*R (SAMPLE) : <u>3.63 cm = 1.43 in</u>
$K = 60 \times \frac{(0.16)^2}{(1.43)^2} \times \frac{4.96}{11.25} \times \ln \frac{12.36}{8.62}$	$K = 60 \times \frac{(0.16)^2}{(1.43)^2} \times \frac{4.96}{10.78} \times \ln \frac{12.36}{8.62}$
$K = 60 \times 0.0125 \times 0.441 \times 0.3604$	$K = 60 \times 0.0125 \times 0.460 \times 0.3604$
$K = 0.119 \text{ in/hr.}$	$K = 0.124 \text{ in/hr}$
$K = 8.41 \times 10^{-5} \text{ cm/sec}$	$K = 8.75 \times 10^{-5} \text{ cm/sec}$

AVERAGE K VALUE = $8.58 \times 10^{-5} \text{ cm/sec}$

DENSIFIED

clear spill water

$$*K = 60 \text{ (mins/hr.)} \times \frac{r^2}{R^2} \times \frac{L \text{ (in)}}{T \text{ (mins)}} \times \ln \frac{H_1}{H_2}$$

$$**K = 60 \text{ (mins/hr.)} \times \frac{L \text{ (in)}}{T \text{ (mins)}} \times \ln \frac{H_1}{H_2}$$



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PERMEABILITY TEST
(U-TUBE PERMEAMETER)

JOB: A.D. LEVEE
JOB NO.: 4019-001-020

TESTED BY: LL SR.
DATE: 8-10-10

BORING NO.: P66-6
SAMPLE NO.: 511
DEPTH: 32'-34'

**AS RECD
CONDITION**

CLASSIFICATION: GRAY BR. S-F SAND; F-G GRAVEL, TR. SILT (SP)/(GP)

PERMEAMETER NO.: 666 * WITH STANDPIPE ☒ SATURATED 4 HOURS
DATA: ** WITHOUT STANDPIPE ☐ SHEEN OBSERVED

TEST NO. <u>1</u>	TEST NO. <u>2</u>
SAMPLE LENGTH (L): <u>12.9 cm = 5.08 in</u>	SAMPLE LENGTH (L): <u>12.9 cm = 5.08 in</u>
H ₁ : <u>31.6 cm = 12.44 in</u>	H ₁ : <u>31.6 cm = 12.44 in</u>
H ₂ : <u>22.1 cm = 8.70 in</u>	H ₂ : <u>22.1 cm = 8.70 in</u>
TIME (START) (T ₁): <u>0:00</u> ^{MINS:SECS} = <u>0.167</u> mins (T)	TIME (START) (T ₁): <u>0:00</u> ^{MINS:SECS} = <u>0.183</u> mins (T)
TIME (END) (T ₂): <u>0:10.465</u>	TIME (END) (T ₂): <u>0:11.565</u>
*r (STANDPIPE): <u>0.415 cm = 0.16 in</u>	*r (STANDPIPE): <u>0.415 cm = 0.16 in</u>
*R (SAMPLE): <u>3.63 cm = 1.43 in</u>	*R (SAMPLE): <u>3.63 cm = 1.43 in</u>
$K = 60 \times \frac{(0.16)^2}{(1.43)^2} \times \frac{5.08}{0.167} \times \ln \frac{12.44}{8.70}$	$K = 60 \times \frac{(0.16)^2}{(1.43)^2} \times \frac{5.08}{0.183} \times \ln \frac{12.44}{8.07}$
$K = 60 \times 0.0125 \times 30.42 \times 0.4328$	$K = 60 \times 0.0125 \times 27.76 \times 0.4328$
$K = 9.87 \text{ in/hr}$	$K = 9.01 \text{ in/hr}$
$K = 6.96 \times 10^{-3} \text{ cm/sec}$	$K = 6.36 \times 10^{-3} \text{ cm/sec}$

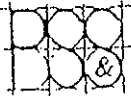
AVERAGE K VALUE = $6.66 \times 10^{-3} \text{ cm/sec}$

AS RECD CONDITION

slightly cloudy spill water

$$*K = 60 \text{ (mins/hr.)} \times \frac{r^2}{R^2} \times \frac{L \text{ (in)}}{T \text{ (mins)}} \times \ln \frac{H_1}{H_2}$$

$$**K = 60 \text{ (mins/hr.)} \times \frac{L \text{ (in)}}{T \text{ (mins)}} \times \ln \frac{H_1}{H_2}$$

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PERMEABILITY TEST
(U-TUBE PERMEAMETER)

JOB: A:D LEVEE TESTED BY: LL SR.
 JOB NO.: 4019-001-020 DATE: 8.10.10

BORING NO.: PSS-6
 SAMPLE NO.: 511
 DEPTH: 32'-34'

DENSIFIED

CLASSIFICATION: GRAY BR. C-F SAND; F-G GRAVEL, TR. SILT (SP)/(GP)

PERMEAMETER NO.: 600 * WITH STANDPIPE ☒
 ** WITHOUT STANDPIPE ☐

DATA:

TEST NO. <u>1</u>	TEST NO. <u>2</u>
SAMPLE LENGTH (L): <u>11.5</u> cm = <u>4.53</u> in	SAMPLE LENGTH (L): <u>11.5</u> cm = <u>4.53</u> in
H ₁ : <u>31.5</u> cm = <u>12.40</u> in	H ₁ : <u>31.5</u> cm = <u>12.40</u> in
H ₂ : <u>22.0</u> cm = <u>8.66</u> in	H ₂ : <u>22.0</u> cm = <u>8.66</u> in
TIME (START) (T ₁): <u>0:00</u> MINS:SECS = <u>0.40</u> mins (T)	TIME (START) (T ₁): <u>0:00</u> MINS:SECS = <u>0.383</u> mins (T)
TIME (END) (T ₂): <u>0:24.566</u>	TIME (END) (T ₂): <u>0:23.566</u>
*r (STANDPIPE) : <u>0.415</u> cm = <u>0.16</u> in	*r (STANDPIPE) : <u>0.415</u> cm = <u>0.16</u> in
*R (SAMPLE) : <u>3.63</u> cm = <u>1.43</u> in	*R (SAMPLE) : <u>3.63</u> cm = <u>1.43</u> in

$K = 60 \times \frac{(0.16)^2}{(1.43)^2} \times \frac{4.53}{0.40} \times \ln \frac{12.40}{8.66}$ $K = 60 \times 0.0125 \times 11.325 \times 0.3590$ $K = 3.05 \text{ in/hr}$ $K = 2.15 \times 10^{-3} \text{ cm/sec}$	$K = 60 \times \frac{(0.16)^2}{(1.43)^2} \times \frac{4.53}{0.383} \times \ln \frac{12.40}{8.66}$ $K = 60 \times 0.0125 \times 11.83 \times 0.3590$ $K = 3.18 \text{ in/hr}$ $K = 2.25 \times 10^{-3} \text{ cm/sec}$
---	---

AVERAGE K VALUE = $2.20 \times 10^{-3} \text{ cm/sec}$

DENSIFIED

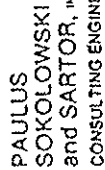
clear spill water

$$*K = 60 \text{ (mins/hr.)} \times \frac{r^2}{R^2} \times \frac{L \text{ (in)}}{T \text{ (mins)}} \times \ln \frac{H_1}{H_2}$$

$$**K = 60 \text{ (mins/hr.)} \times \frac{L \text{ (in)}}{T \text{ (mins)}} \times \ln \frac{H_1}{H_2}$$



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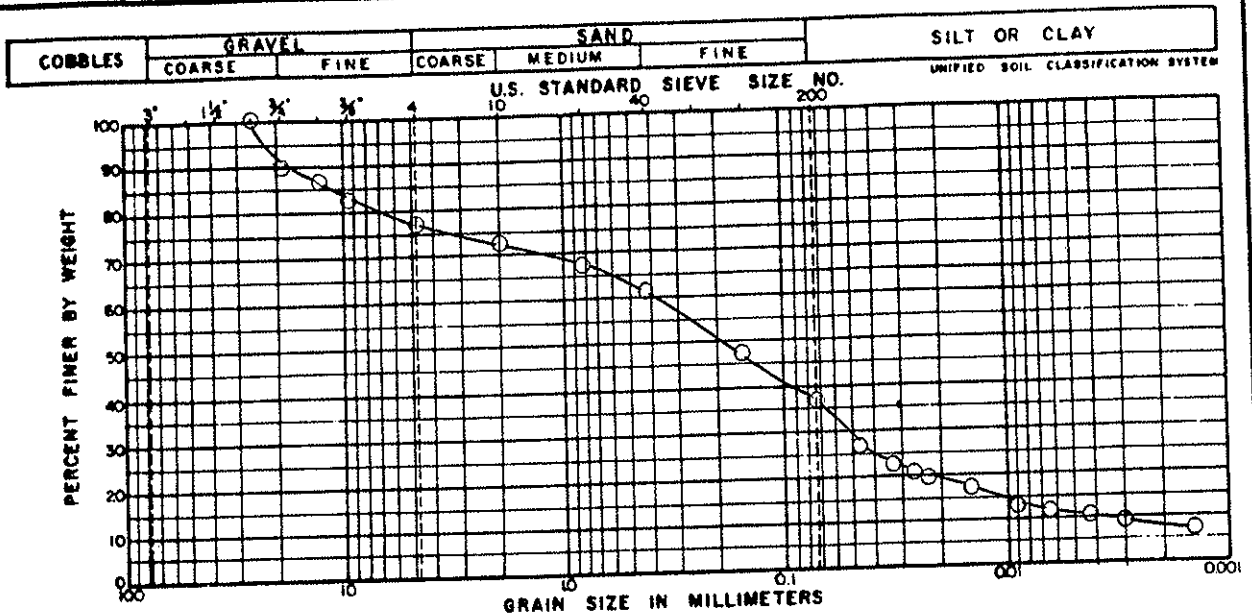


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and SARTOR, "CONSULTING ENGINEERS"

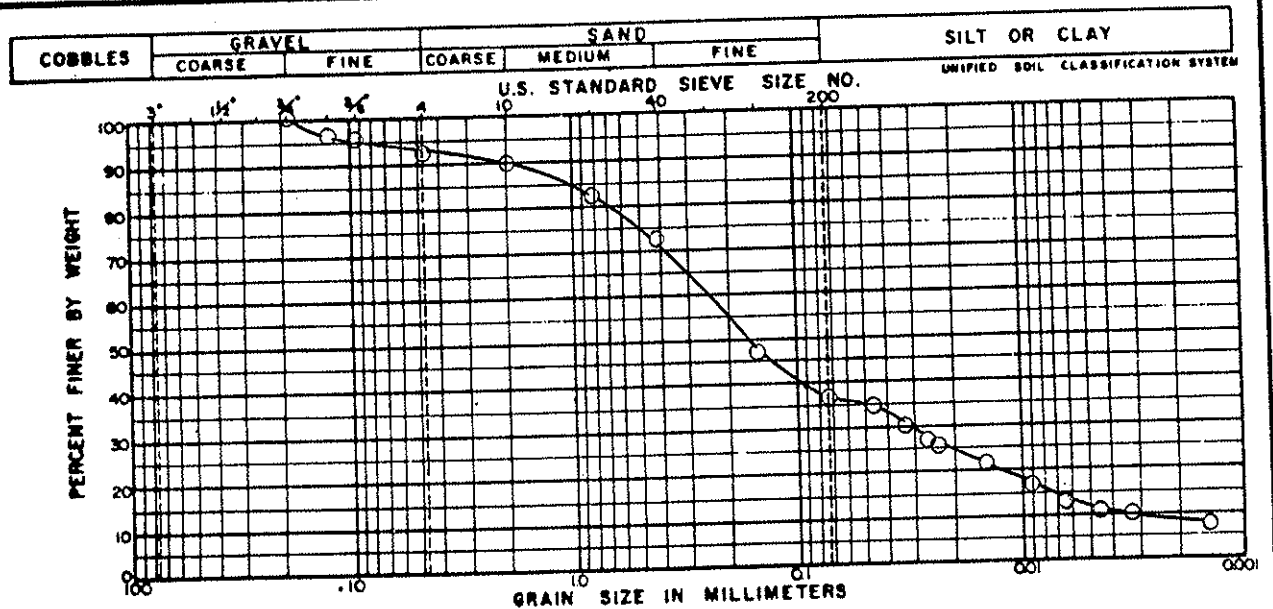
~ A:D LEVEE ~
JOB. NO. 4019-001-020 PROJECT ENGINEER J.L. WMB, TESTED BY LLSR DATE 8-10-10

[illegible]

GRAIN-SIZE DISTRIBUTION



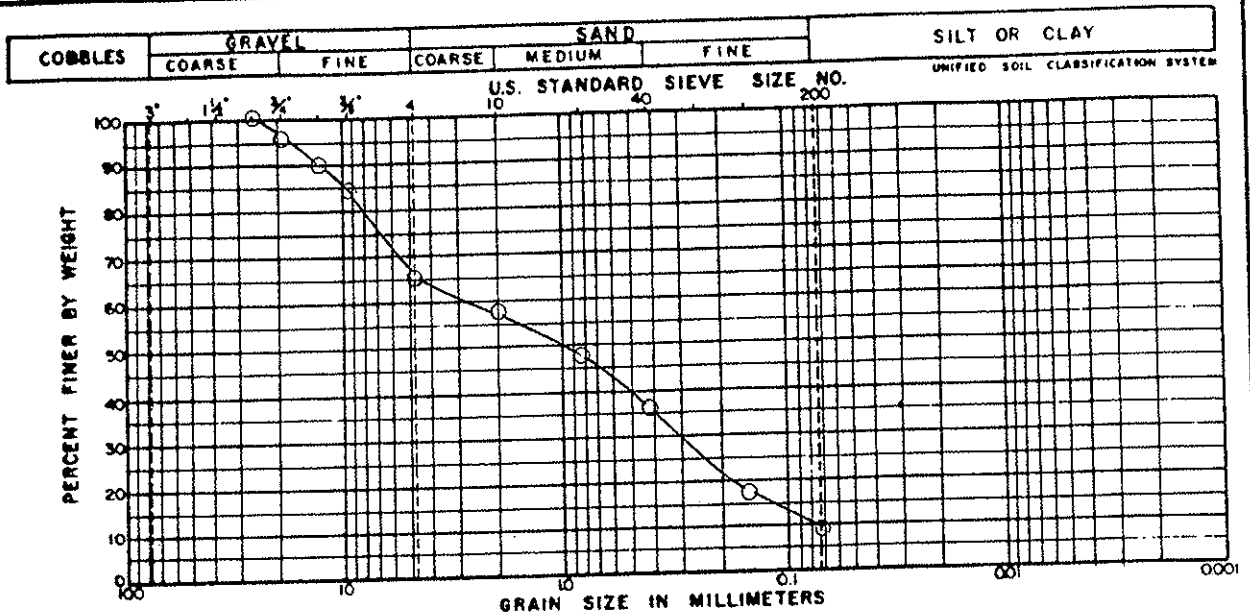
BORING	SAMPLE	DEPTH	SYMBOL	CLASSIFICATION	MC	LL	PL
PSS-8	56	15'-17'		OLIVE GRAY BR. F-C SAND, AND CLAYEY SILT, SOME F-C GRAVEL (SM) (FILL)	11.2	-	-



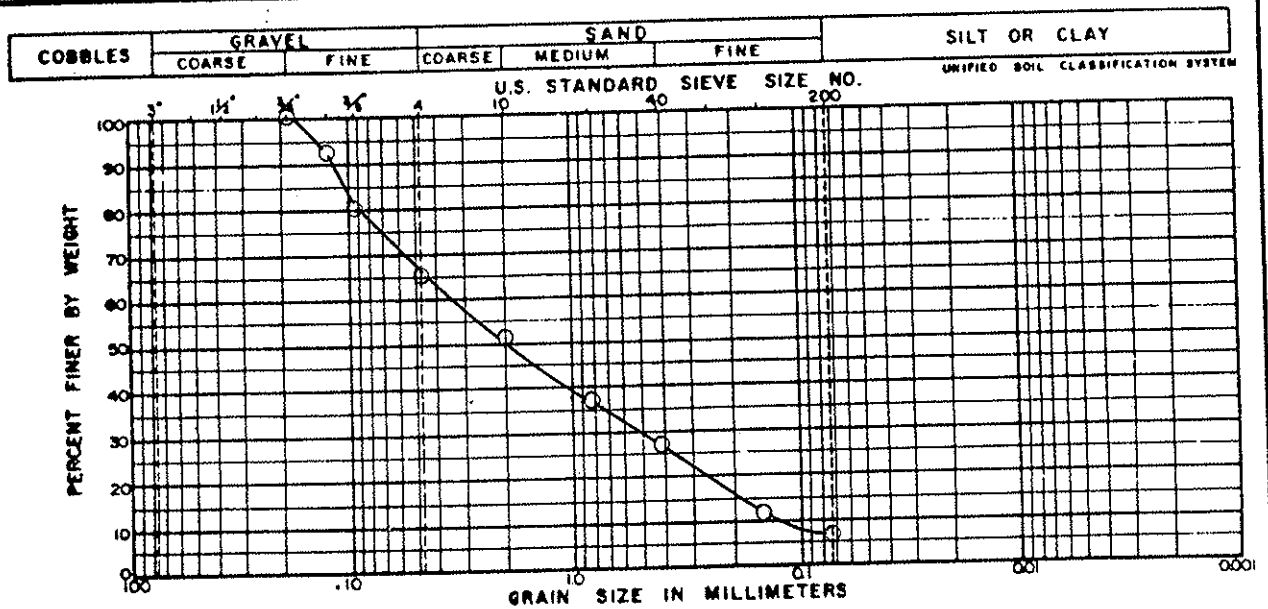
BORING	SAMPLE	DEPTH	SYMBOL	CLASSIFICATION	MC	LL	PL
PSS-8	57	20'-22'		OLIVE TAN GRAY F-M SAND, AND SILT, TR. F GRAVEL (SM) (FILL)	11.1	-	-

PROJ. NO.
4019-0001

GRAIN-SIZE DISTRIBUTION



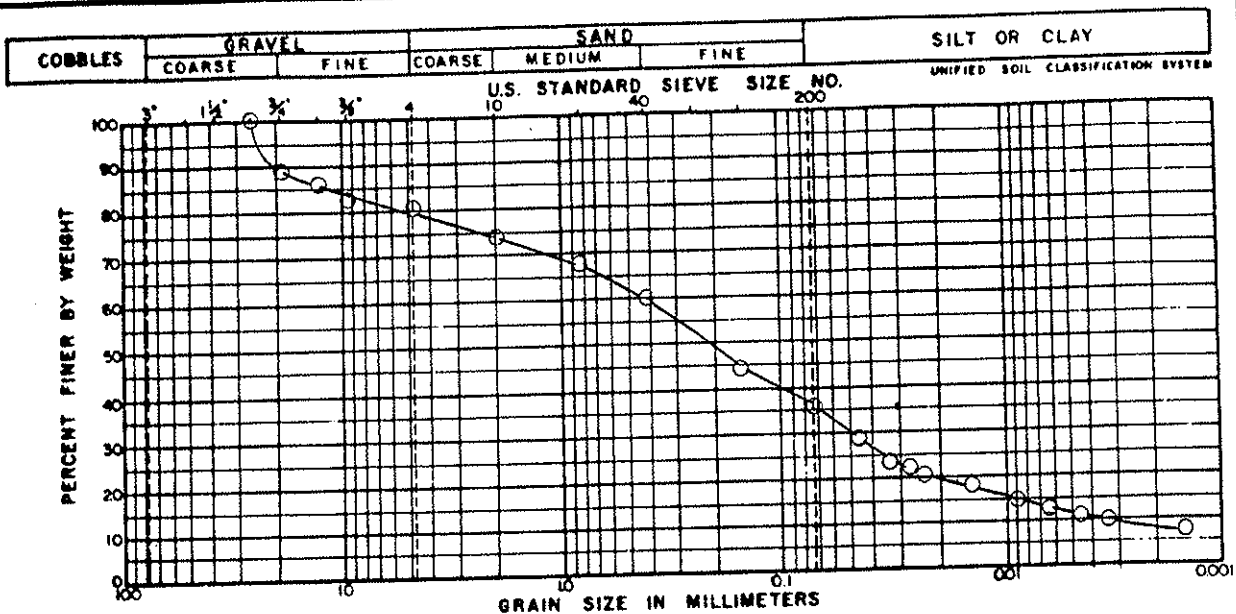
BORING	SAMPLE	DEPTH	SYMBOL	CLASSIFICATION	MC	LL	PL
PSS-B	SG	35'-37'		OLIVE GRAY F-C SAND, AND F-C GRAVEL, TR. SILT (SP-SM)	8.3	-	-



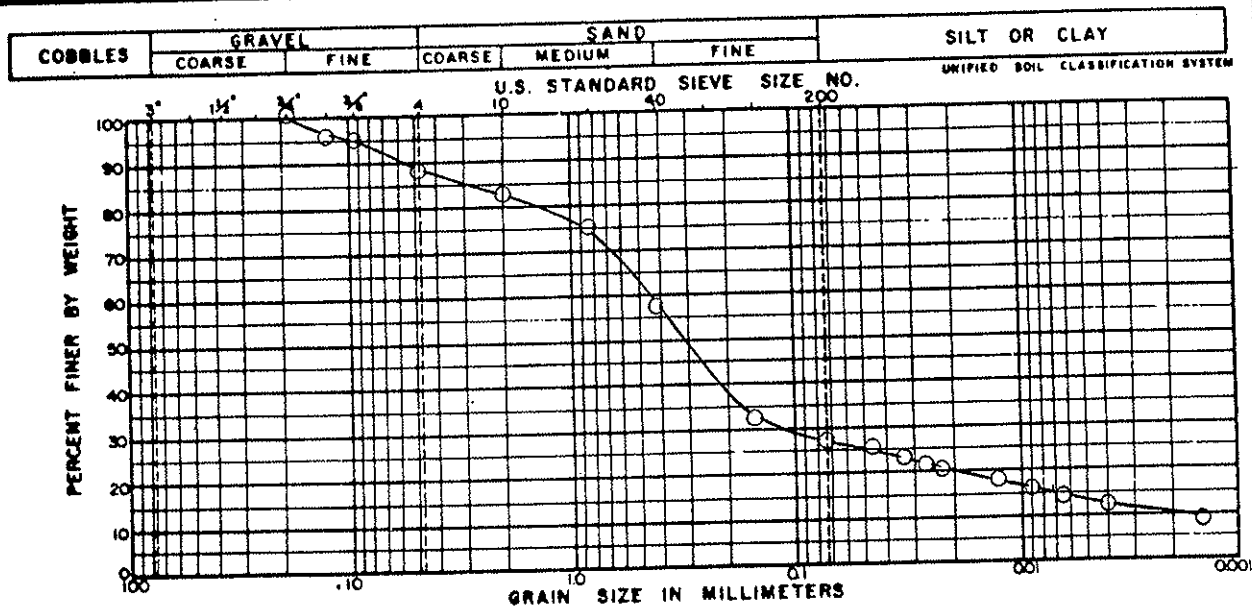
BORING	SAMPLE	DEPTH	SYMBOL	CLASSIFICATION	MC	LL	PL
PSS-2	SG	10'-10.4'		GRAY BR. F-C SAND, SOME F GRAVEL TR. SILT, OCC. ASPHALT FRAGS (SP-SM) (FILL)	9.2	-	-

PROJ. NO. 4019-0001-

GRAIN-SIZE DISTRIBUTION



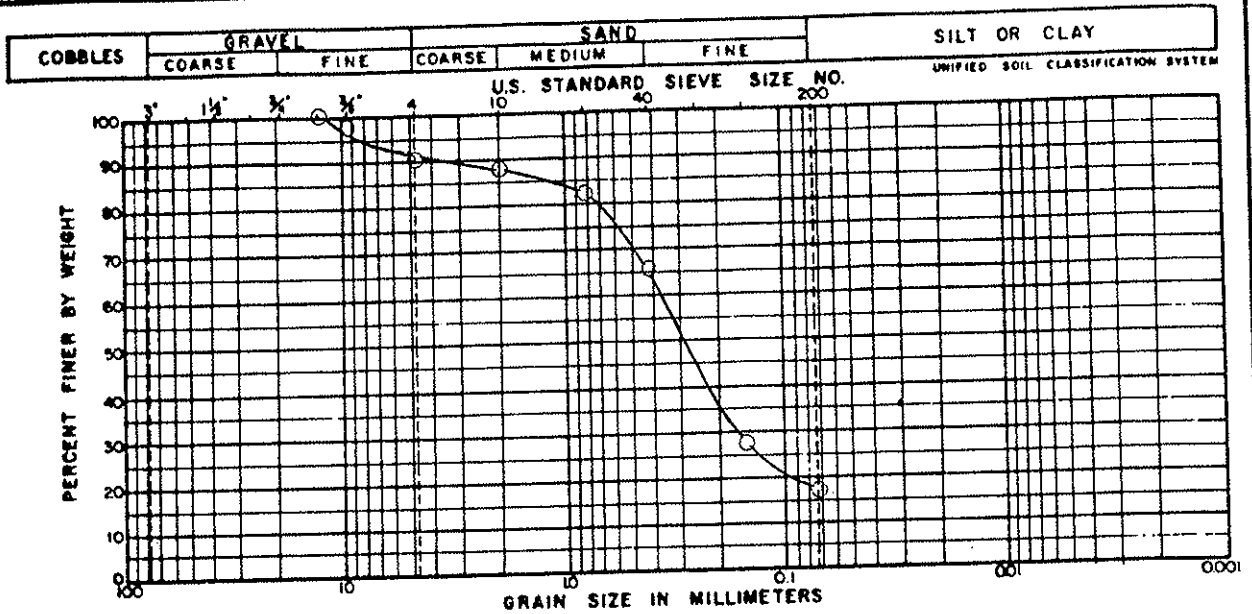
BORING	SAMPLE	DEPTH	SYMBOL	CLASSIFICATION	MC	LL	PL
PSS-10	S3	7'-9'		GRAY F-C SAND, AND CLAYEY SILT, LITTLE F-C GRAVEL (SM) (FILL)	8.0	-	-



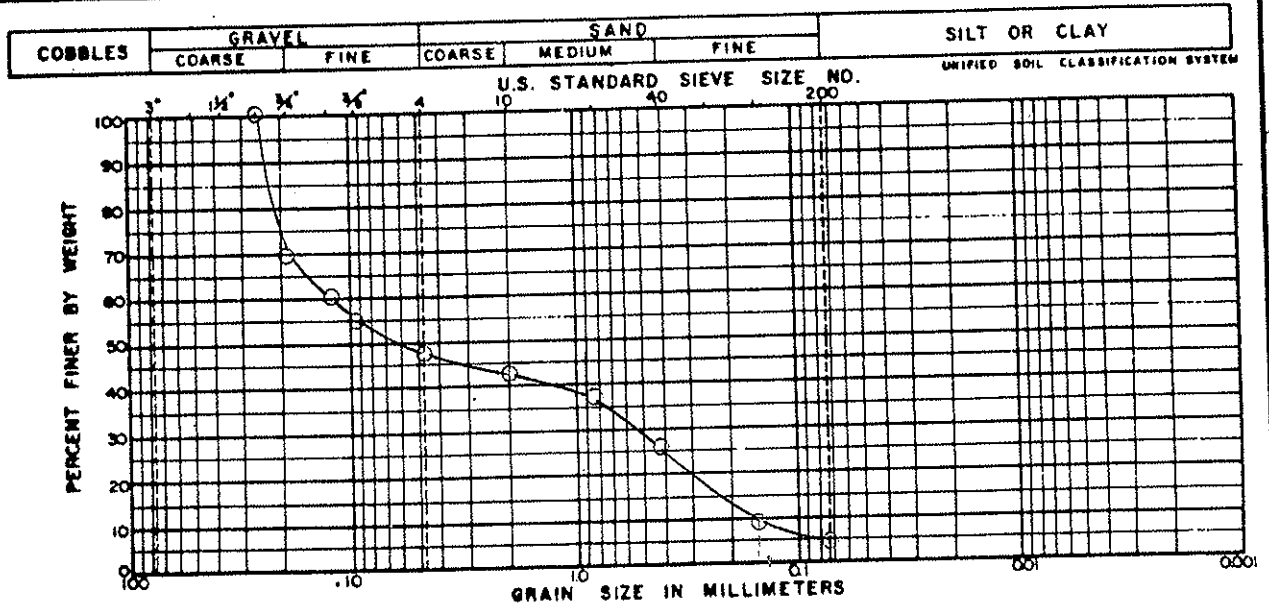
BORING	SAMPLE	DEPTH	SYMBOL	CLASSIFICATION	MC	LL	PL
PSS-10	S4	9'-11'		BR. GRAY F-C SAND, SOME CLAYEY SILT, LITTLE F GRAVEL (SM) (FILL)	10.2	-	-

PROJ. NO.
4019-0001

GRAIN-SIZE DISTRIBUTION



BORING	SAMPLE	DEPTH	SYMBOL	CLASSIFICATION	MC	LL	PL
PSS-10	57	25'-27'		DK. GRAY F+M SAND, LITTLE SILT, LITTLE F GRAVEL, OCC. COAL FRAGS. (SM) (FILL)	14.7	-	-



BORING	SAMPLE	DEPTH	SYMBOL	CLASSIFICATION	MC	LL	PL
PSS-10	58	30'-32'		GRAY C-F GRAVEL AND F-L SAND, TR. SILT (GP)	9.9	-	-

PROJ. NO.
4019-0001-

CONSOLIDATION TEST 1

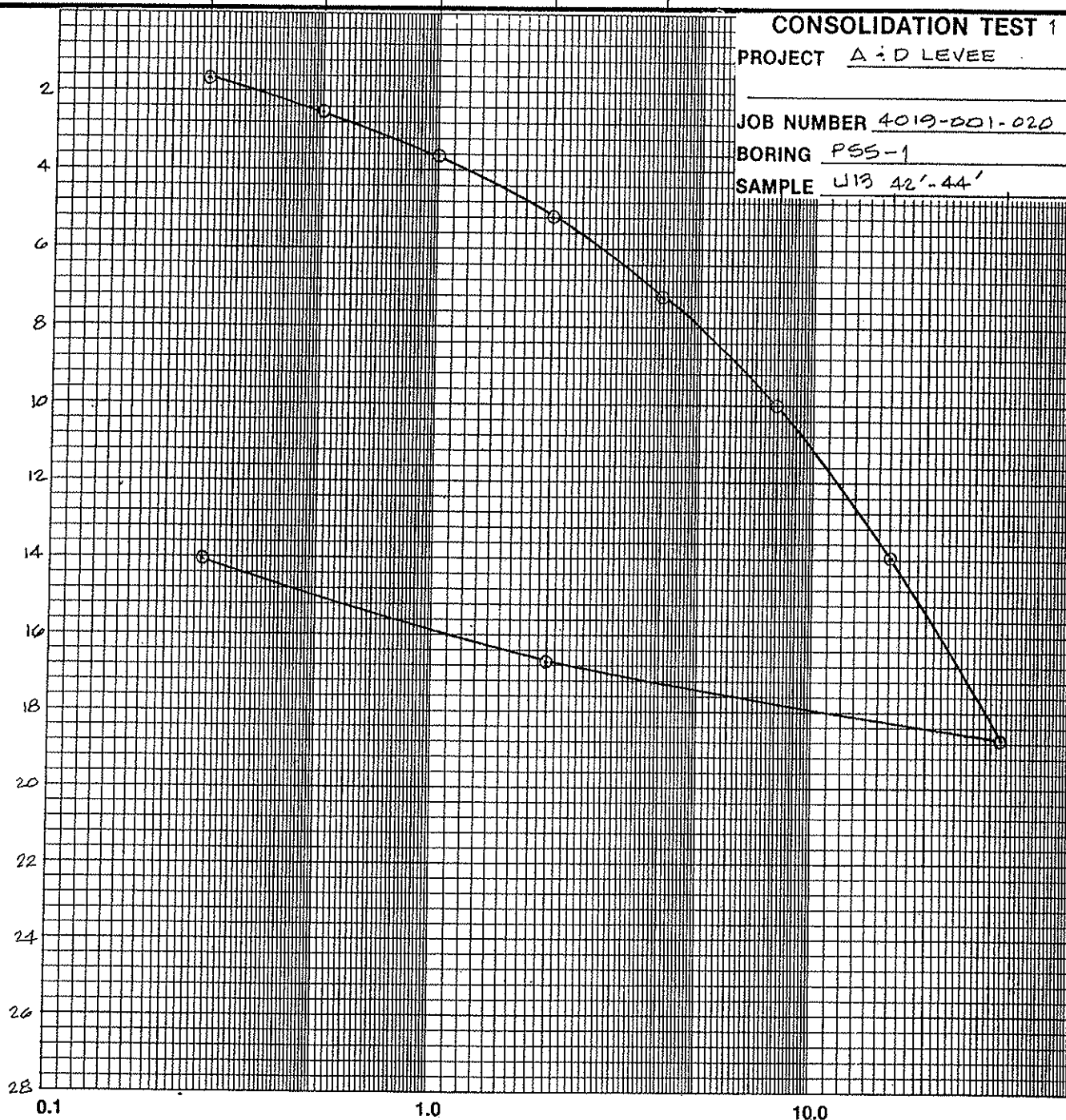
PROJECT A & D LEVEE

JOB NUMBER 4019-001-020

BORING PSS-1

SAMPLE U13 42'-44'

UNIT STRAIN



PRESSURE IN TONS PER SQ. FT.

DESCRIPTION OF SAMPLE <u>THINLY LAYERED GRAY SILT; CLAYEY SILT (ML) AND F SAND, SOME/AND SILT (SM)</u>				STRATUM:	
PROPERTIES OF CONSOLIDATION SPECIMEN	ELEVATION OF SPECIMEN		PROPERTIES OF PLASTICITY LIMIT SPECIMEN	UNIFIED CLASSIFICATION	ML/SM
	DEPTH OF SPECIMEN (FT.)	± 43.1		LIQUID LIMIT (W _L)	
	DIAMETER OF SPECIMEN (IN.)	2.5		PLASTIC LIMIT (W _p)	
	INITIAL THICKNESS OF SPECIMEN (IN.)	1.0		PLASTICITY INDEX (I _p)	NP
	INITIAL WATER CONTENT %	34.7		NATURAL WATER CONT. % (W)	
	FINAL WATER CONTENT %	25.4		LIQUIDITY INDEX = $\frac{W - W_p}{I_p}$	NP
	INITIAL DEGREE SATURATION %	97.0			
	FINAL DEGREE SATURATION %	100		SPECIFIC GRAVITY (G)	2.64
					INITIAL VOID RATIO (e ₀),
				MOST PROBABLE PRE-CONSOLIDATION STRESS (TSF) SHOWN THUS: P _c ↓	5.6
				EXISTING OVERBURDEN STRESS (TSF) SHOWN THUS: P ₀ ↓	5.1
				COMPRESSION INDEX $C_c = \frac{C_c}{1 + e_0}$	0.15

DATE



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CONSOLIDATION TEST

CELL # 68

~ AUTOMATED ~

± 12 HRS / LOAD

TEST #1
DATA SHEET

PROJECT Δ: D LEVEE

JOB NUMBER 4019-001-020

LOCATION OF PROJECT ANSONIA, CONNECTICUT COUNTY BORING NO. PSS-1 SAMPLE NO. U13

VISUAL CLASSIFICATION THINLY LAYERED GRAY SILT + CLAYEY SILT (ML) ± F SAND, SOME AND DEPTH 42'-44'

LOADING TEST DATA: LOAD tsf; DATE APPLIED ; APPLIED BY LLSR

SEE ATTACHED
DATA SHEETS

APPARATUS MEASUREMENTS	
Diameter Ring	6.35 cm.
Area Ring	31.67 cm ²
Height Ring, Z ₁	1.0 in.

SPECIMEN HEIGHTS	INITIAL	FINAL AT ZERO LOAD
Height of gauge block, H _g	in.	in.
Dial reading on gauge block	in.	in.
Dial reading on specimen	in.	in.
Difference in dial reading ΔD	in.	in.
Specimen height H = H _g - ΔD	in.	in.
Specimen height by depth gauge	in.	in.
Thickness of stone + filter paper, Z ₂	in.	in.
Distance from top of stone to ring	in.	in.
Specimen H +, H = Z ₁ + Z ₃ - Z ₂	in.	in.

SOIL AND RING WEIGHTS	INITIAL	FINAL
Weight Ring & Wet Soil in gm.	655.29	147.99
Weight Ring in gm. / tare	508.22	11.00
Weight Wet Soil, W ₁ in gm.	147.07	136.99
Weight Dry Soil, W _s = W ₁ / w, in gm.	108.80	109.21

WATER CONTENT	INITIAL		FINAL
Specimen location			
Container number	LID	"A"	TARE #101
Weight container + wet soil in gm.		117.35	147.99
Weight container + dry soil in gm.		95.03	120.21
Weight water, W _w , in gm.		22.32	27.78
Weight container in gm.		31.57	11.00
Weight dry soil, w _s , in gm.		63.46	109.21
Water content, w in %		35.17	25.44
Average water content			

INITIAL WATER CONTENT DETERMINED FROM FINAL WEIGHT OF DRY SOIL	
Initial weight wet soil in gm.	147.07
Final weight dry soil in gm.	109.21
Weight of water, W _w	37.86
Initial water content in %	34.67

SOLIDS HEIGHT, H _s	
Initial weight dry soil in gm.	108.80
Final weight dry soil in gm.	109.21
Average weight dry soil in gm.	109.01
Solids height, $H_s = \frac{W_s}{G \gamma_w}$	1.3062 cm.
	0.5143 in.

UNCORRECTED	INITIAL	FINAL
Void Ratio $e = \frac{H - H_s}{H_s}$	0.944	0.6715
Degree of Saturation $S = \frac{W_g}{e}$	97.0	100

H_f at S = 100% = in.

H_f measured = in.

Difference = in.

FINAL
READING

0.1403"

CALCULATIONS: $G_s = 2.64$

$\gamma_t = 114.2$ pcf

$\gamma_d = 84.8$ pcf

UNDISTURBED SAMPLE LOG

Boring No.: PSS-1

Job No.: 4019-001-020

Sample No. & Depth: U13 42'-44'

Project: A: D LEVEE

Recovery: 21 "

Date Tested: 8-12-10

REVISED: 8-17-10

Sample Method: SHELBY

Tested By: LLSR, AL

Date of Sample: 8.3.10

Checked By: MBD

Testing Notes: SEE BELOW

Depth Length (inches) Soil Classification

Tube	Sample	
42'	24	
	23	
	22	
	21	top 6 1/2" disturbed - wet - f gravel & c-f sand in middle of section.
	20	
	19	
	18	
	17	
	16	
	15	
	14	
	13	
43'	12	
	11	Thinly layered gray silt; clayey silt (ML) & f sand, some sand silt (SM)
	10	Note: occ. 1/16" thick silty clay lenses/layers
	9	sporadic mica flakes
	8	(ML) & (SM) non-cohesive, sl. dilatant
	7	typical layer thickness: 1/16" - 1/4"
	6	
	5	
	4	
	3	
	2	
	1	
44'		

Remarks: 4" section saved (16"-14") → Consol. Test (difficult trimming)
6 1/2" section saved (3 1/2"-10")

ATTERBERG LIMITS TEST DATA

CLASSIFICATION Thinly layered gray silt-clayey silt (ML) ; f sand, some sand silt (SM)

JOB NO. 4019-001-020

CLIENT/OWNER A & D LEVEE

LOCATION ANSONIA, CONN.

BORING PSS-1 SAMPLE U13 DEPTH 42'-44'

FIELD DENSITY BY 1.1.1

DETERMINATION	1	2
NUMBER OF RINGS		
WT OF RINGS + WET SOIL		
WT OF RINGS		
WT OF WET SOIL		
FIELD DENSITY		
DRY DENSITY		

DETERMINATION	1	2
DISH		
WT OF DISH + WET SOIL		
WT OF DISH + DRY SOIL		
WT OF MOISTURE		
WT OF DISH		
WT OF DRY SOIL		
FIELD MOISTURE CONTENT	FROM CONSOL.	

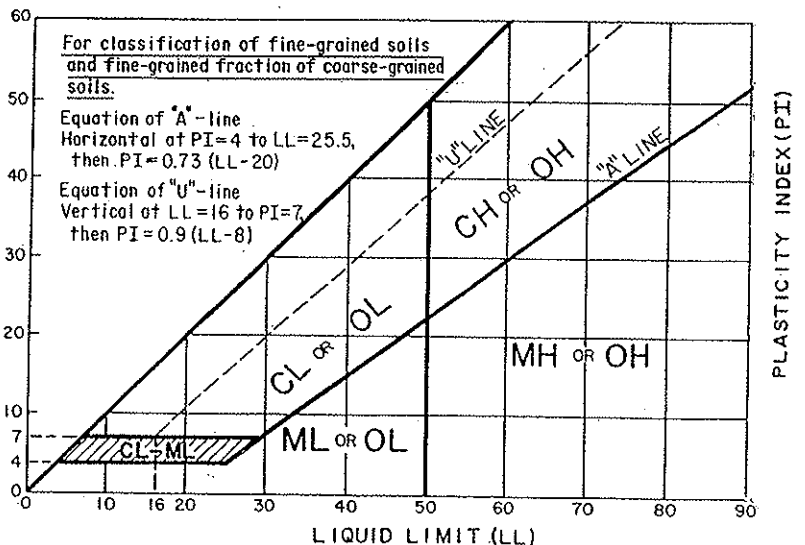
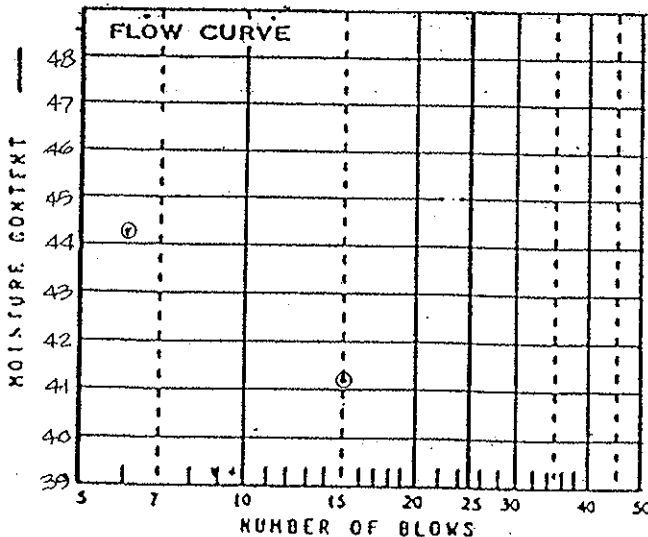
PLASTIC LIMIT BY LL-8.12/110 Unable to roll threads - mat'l brittle & non-plastic

DETERMINATION	1	2	3	4	5	6
DISH (LIDS)						
WT OF DISH + WET SOIL						
WT OF DISH + DRY SOIL						
WT OF MOISTURE						
WT OF DISH						
WT OF DRY SOIL						
MOISTURE CONTENT						

LIQUID LIMIT Unable to obtain LL pt. > 15 blows - mat'l. brittle.

DETERMINATION	1	2	3	4	5	6
DISH (BOTTOMS)	101	102				
NUMBER OF BLOWS	6	15				
WT OF DISH + WET SOIL	27.56	23.98				
WT OF DISH + DRY SOIL	22.60	19.95				
WT OF MOISTURE	4.96	3.63				
WT OF DISH	11.40	11.14				
WT OF DRY SOIL	11.20	8.81				
MOISTURE CONTENT	44.3	41.2				

Plasticity Chart



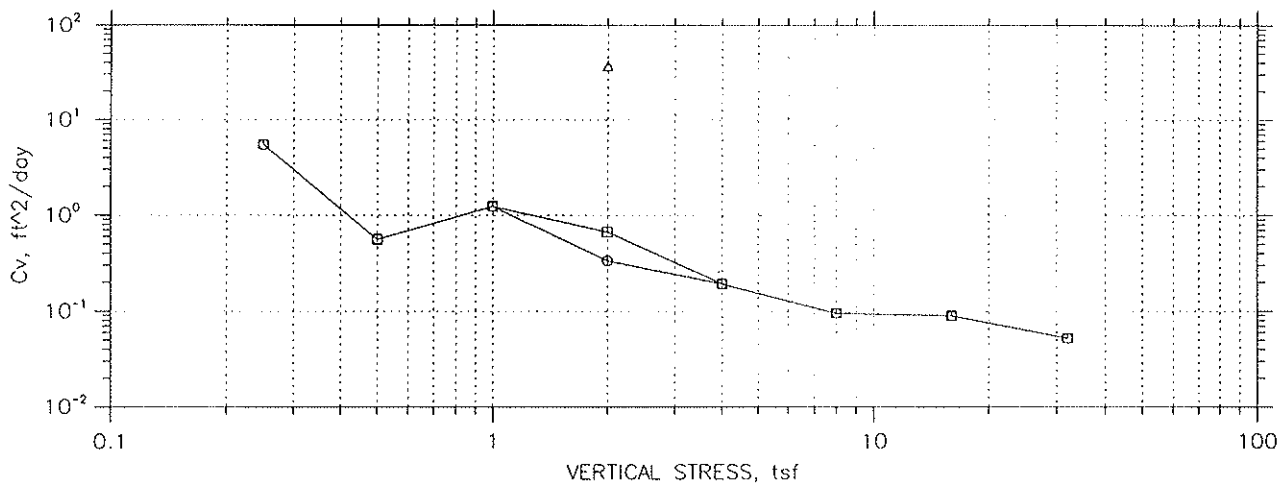
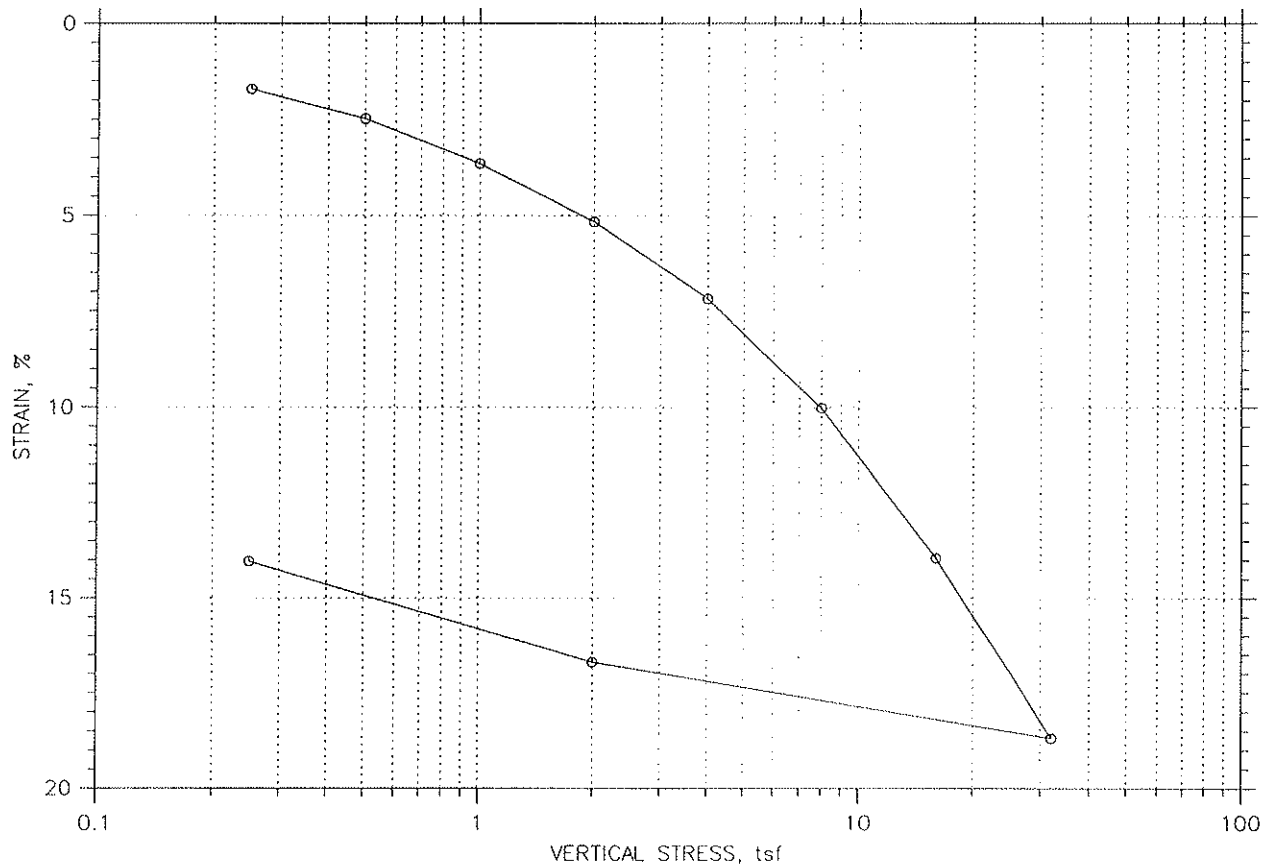
SUMMARY

DRY DENSITY	MOISTURE CONTENT	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	IDENTIFICATION
	35.2			NP	(ML)/(SM)



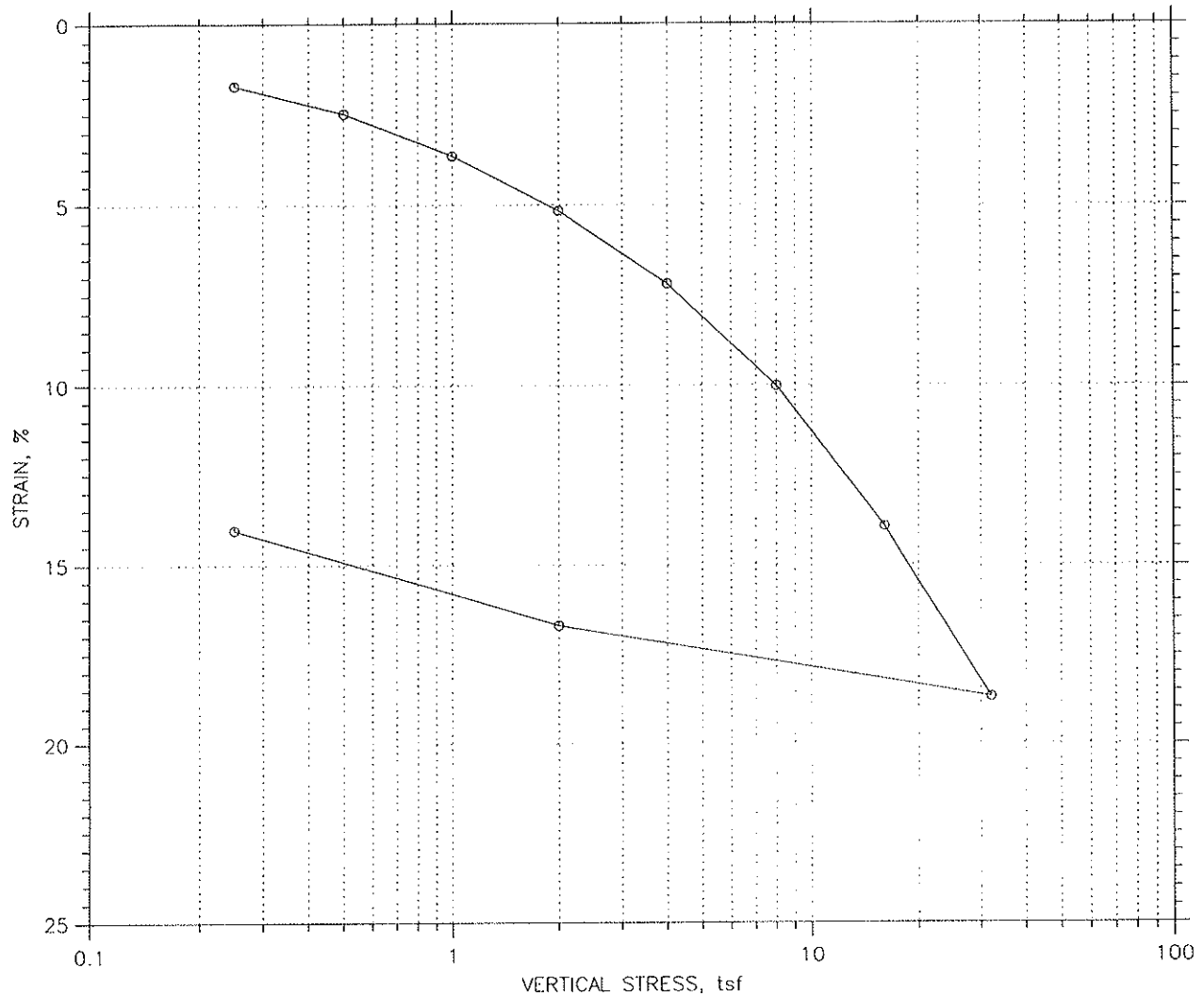
PAULUS
SOKOLOWSKI
and SARTOR, INC.
CONSULTING ENGINEERS

CONSOLIDATION TEST DATA SUMMARY REPORT



Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners KETSPAN BUSINESS SOLUTIONS 674 Mountain Boulevard Extension Warren, New Jersey 07059	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-1	Tested By: LL Sr.	Checked By: LL Sr.
	Sample No.: U13	Test Date: 8/17/10	Depth: 42'-44'
	Test No.: 1	Sample Type: Undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)		
	Remarks: See Undisturbed Log for details.		

CONSOLIDATION TEST DATA SUMMARY REPORT



				Before Test	After Test	
Overburden Pressure: 0 tsf			Water Content, %	34.67	25.44	
Preconsolidation Pressure: 0 tsf			Dry Unit Weight, pcf	84.76	98.59	
Compression Index: 3.81959e-313			Saturation, %	96.90	99.99	
Diameter: 2.5 in		Height: 1 in		Void Ratio	0.94	0.67
LL: NP	PL: NP	PI: NP	GS: 2.64			

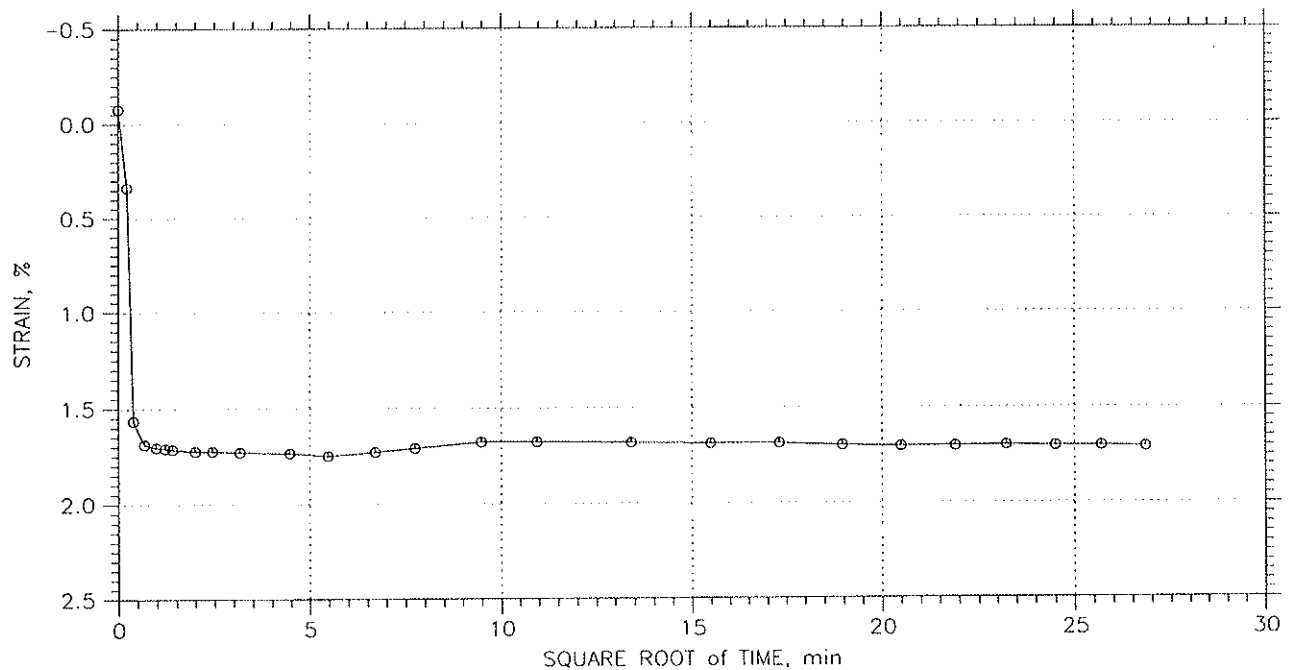
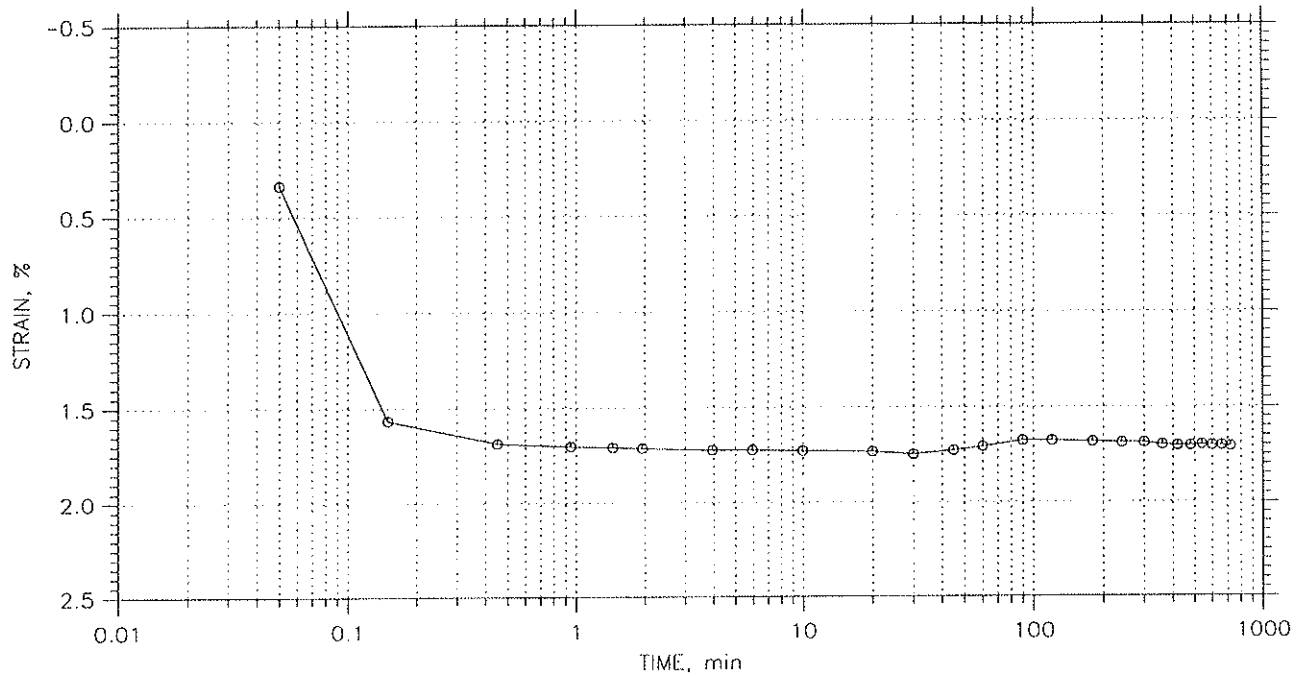
Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A KETSPAN BUSINESS SOLUTION 67A Mountain Boulevard Extension Worcester, New Jersey 07059	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-1	Tested By: LL Sr.	Checked By: LL Sr.
	Sample No.: U13	Test Date: 8/17/10	Depth: 42'-44'
	Test No.: 1	Sample Type: Undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)		
	Remarks: See Undisturbed Log for details.		

CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 1 of 10

Stress: 0.25 tsf



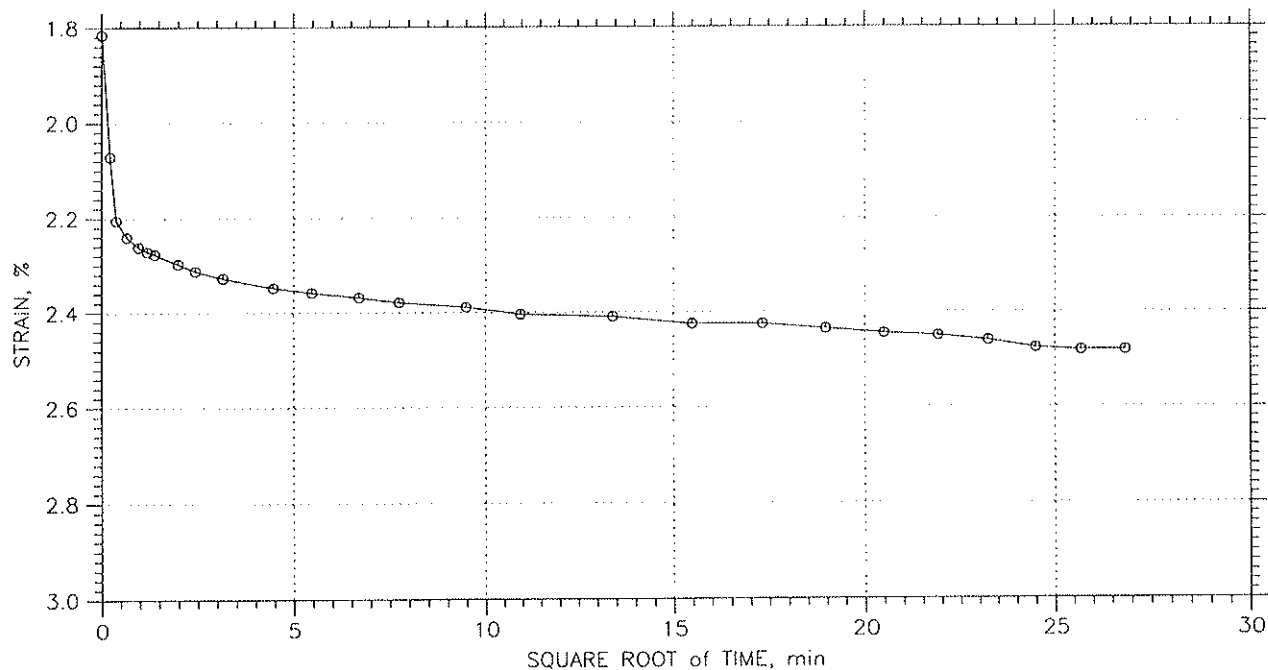
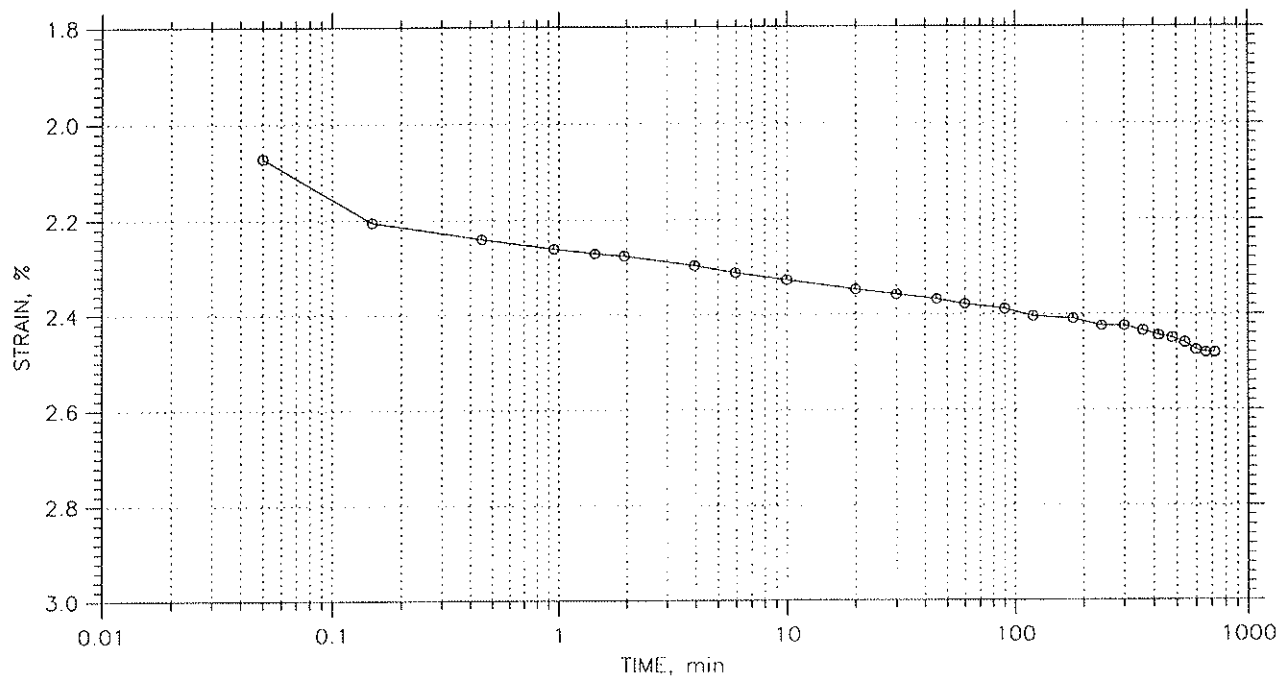
Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A KETSPAN BUSINESS SOLUTION 67A Mountain Boulevard Extension Wenonah, New Jersey 07099	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-1	Tested By: LL Sr.	Checked By: LL Sr.
	Sample No.: U13	Test Date: 8/17/10	Depth: 42'-44'
	Test No.: 1	Sample Type: Undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)		
	Remarks: See Undisturbed Log for details.		

CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 2 of 10

Stress: 0.5 tsf



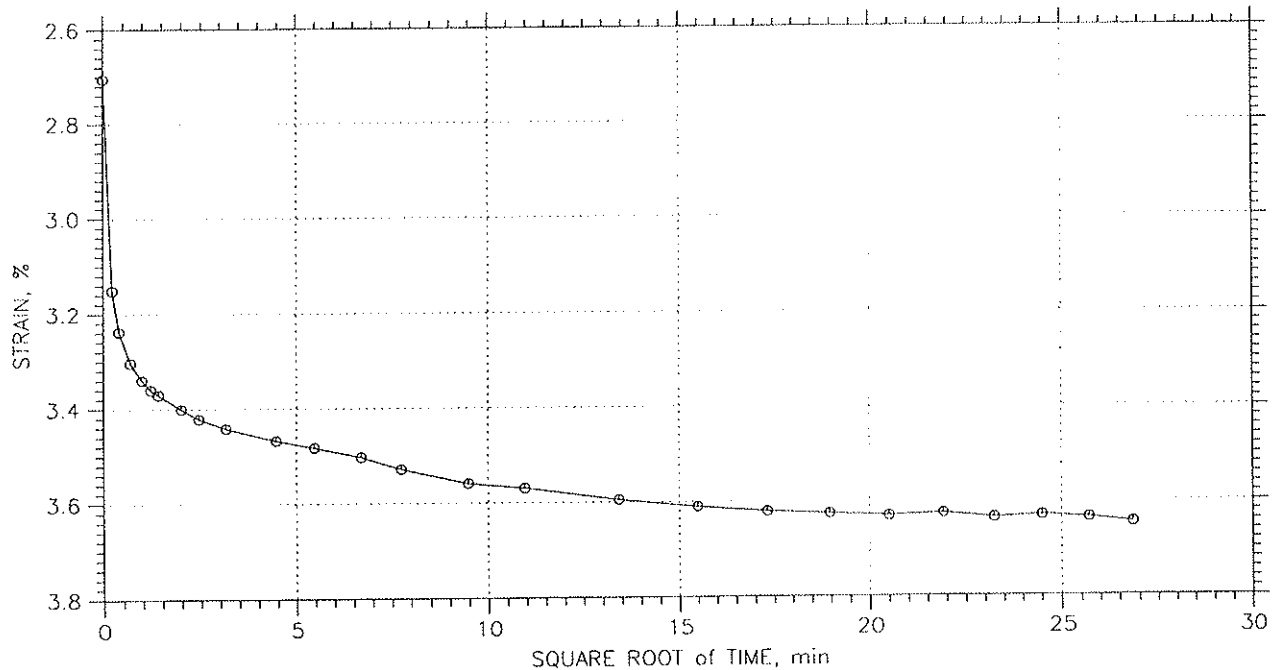
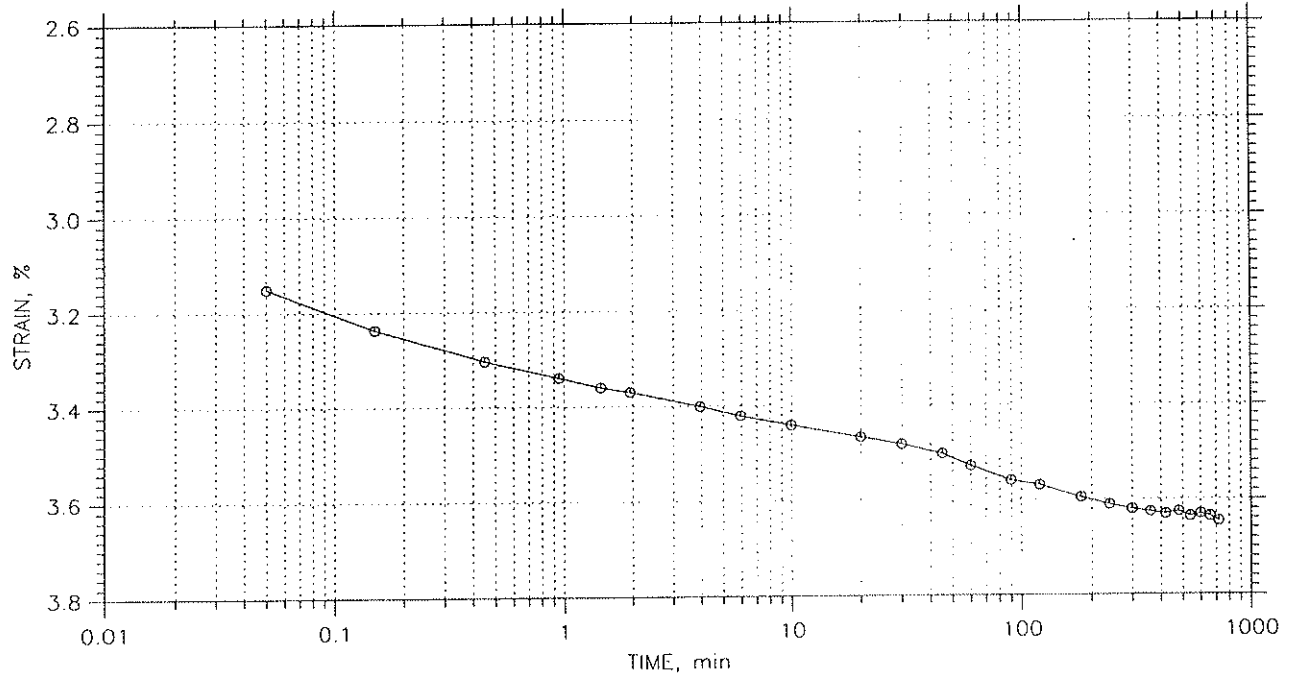
Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A HETSPAN BUSINESS SOLUTION 674 Mountain Boulevard Extension Warren, New Jersey 07059	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-1	Tested By: LL Sr.	Checked By: LL Sr.
	Sample No.: U13	Test Date: 8/17/10	Depth: 42'-44'
	Test No.: 1	Sample Type: Undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)		
	Remarks: See Undisturbed Log for details.		

CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 3 of 10

Stress: 1. tsf



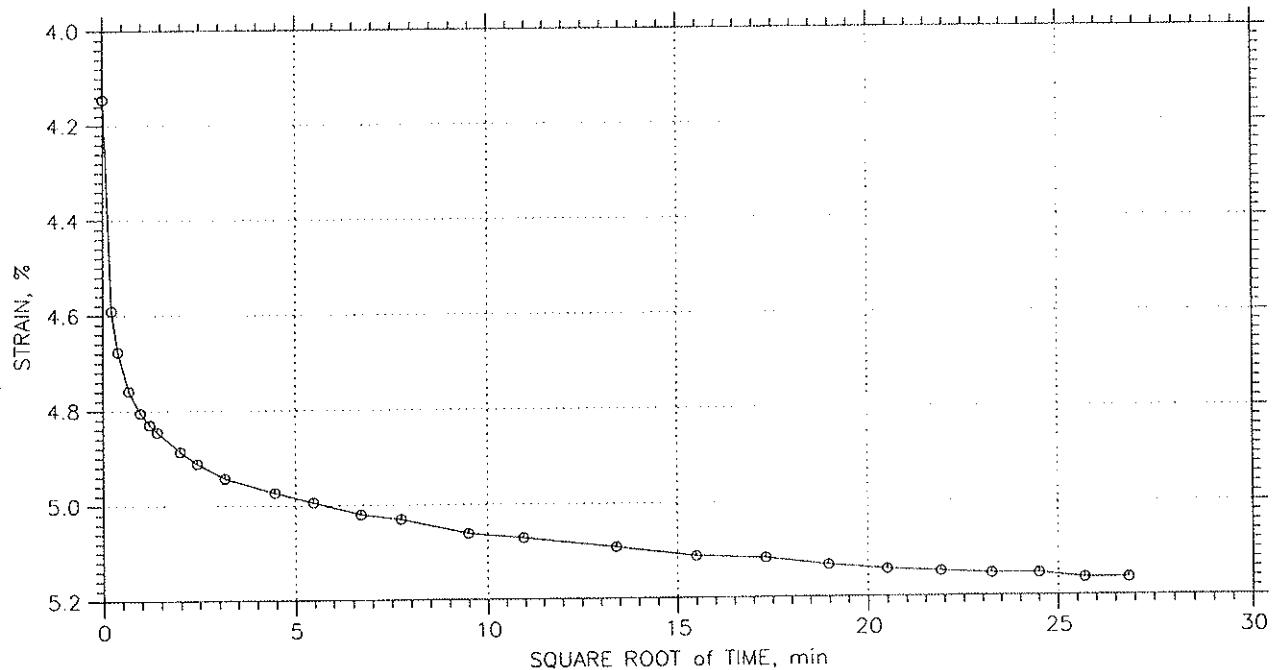
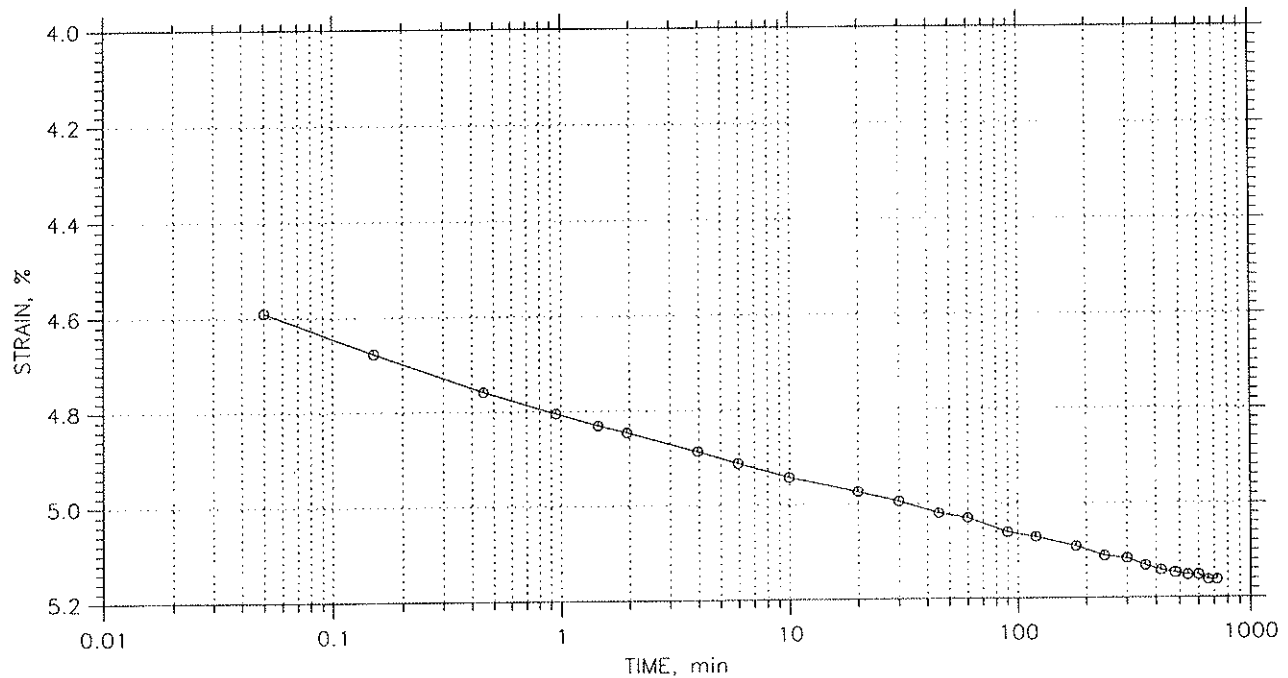
Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A KEYSPAN BUSINESS SOLUTION 60 P. Mountain Boulevard Suite 201 Woburn, New Jersey 07069	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-1	Tested By: LL Sr.	Checked By: LL Sr.
	Sample No.: U13	Test Date: 8/17/10	Depth: 42'-44'
	Test No.: 1	Sample Type: Undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)		
	Remarks: See Undisturbed Log for details.		

CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 4 of 10

Stress: 2. tsf



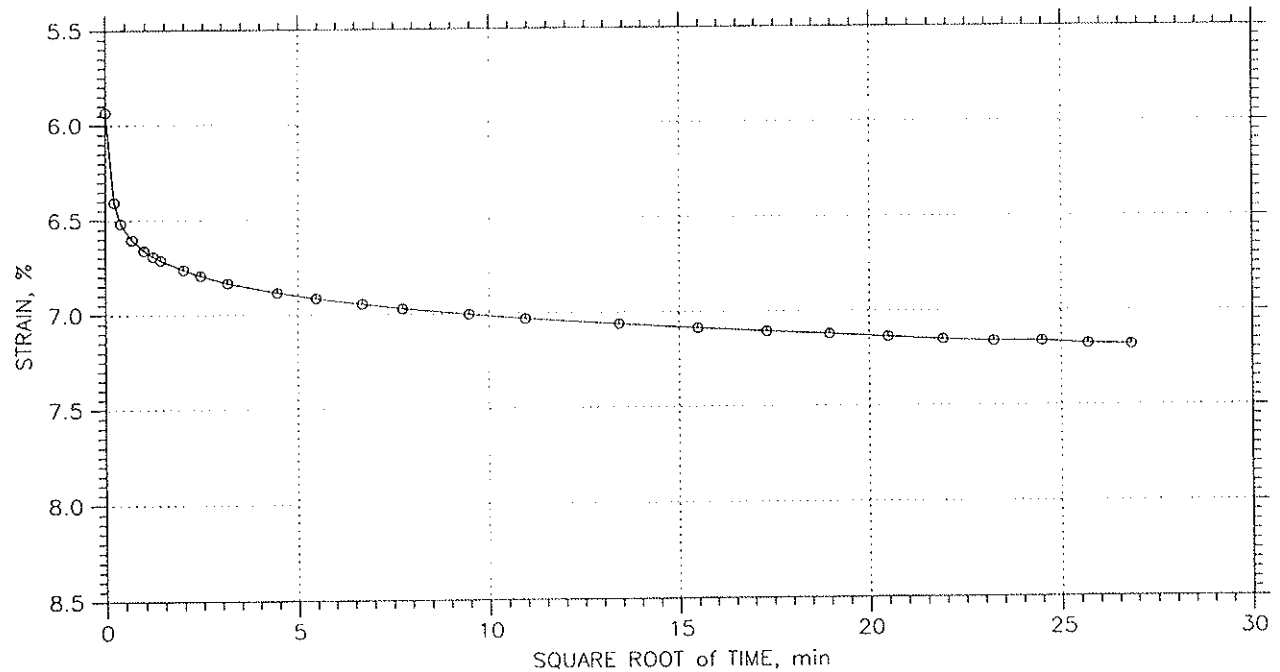
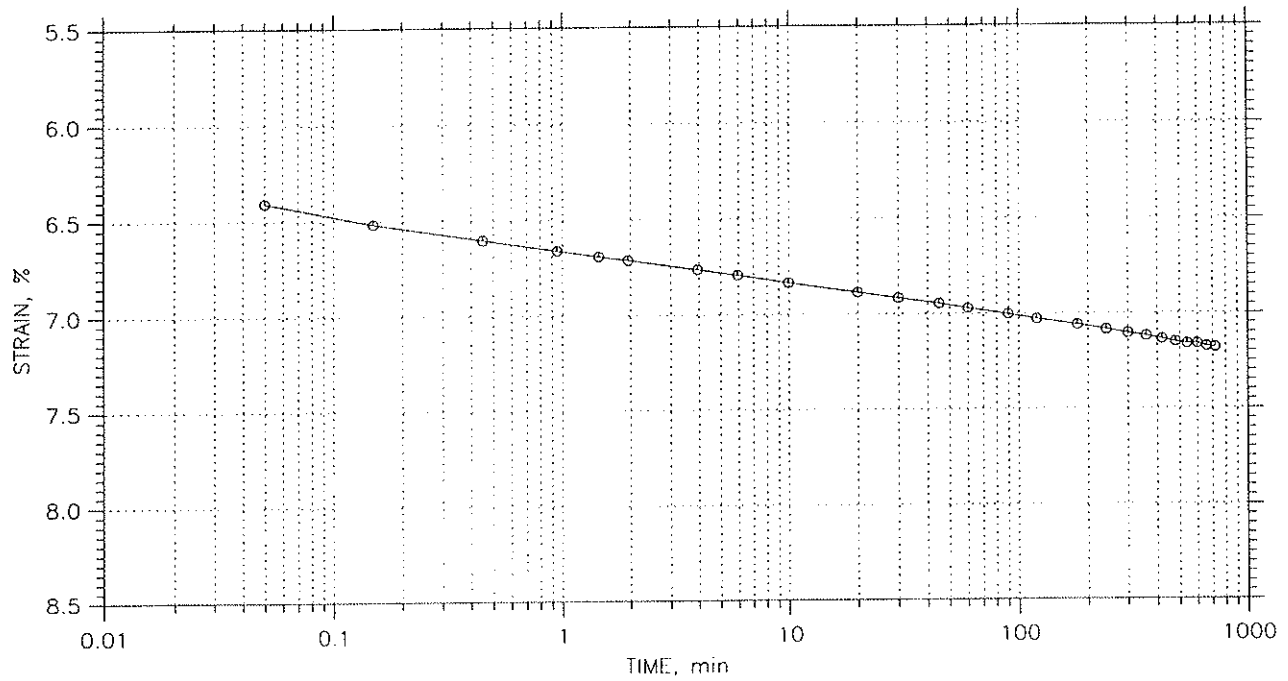
Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A KETSPAN BUSINESS SOLUTION 674 Mountain Boulevard Extension Warren, New Jersey 07059	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-1	Tested By: LL Sr.	Checked By: LL Sr.
	Sample No.: U13	Test Date: 8/17/10	Depth: 42'-44'
	Test No.: 1	Sample Type: Undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)		
	Remarks: See Undisturbed Log for details.		

CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 5 of 10

Stress: 4. tsf



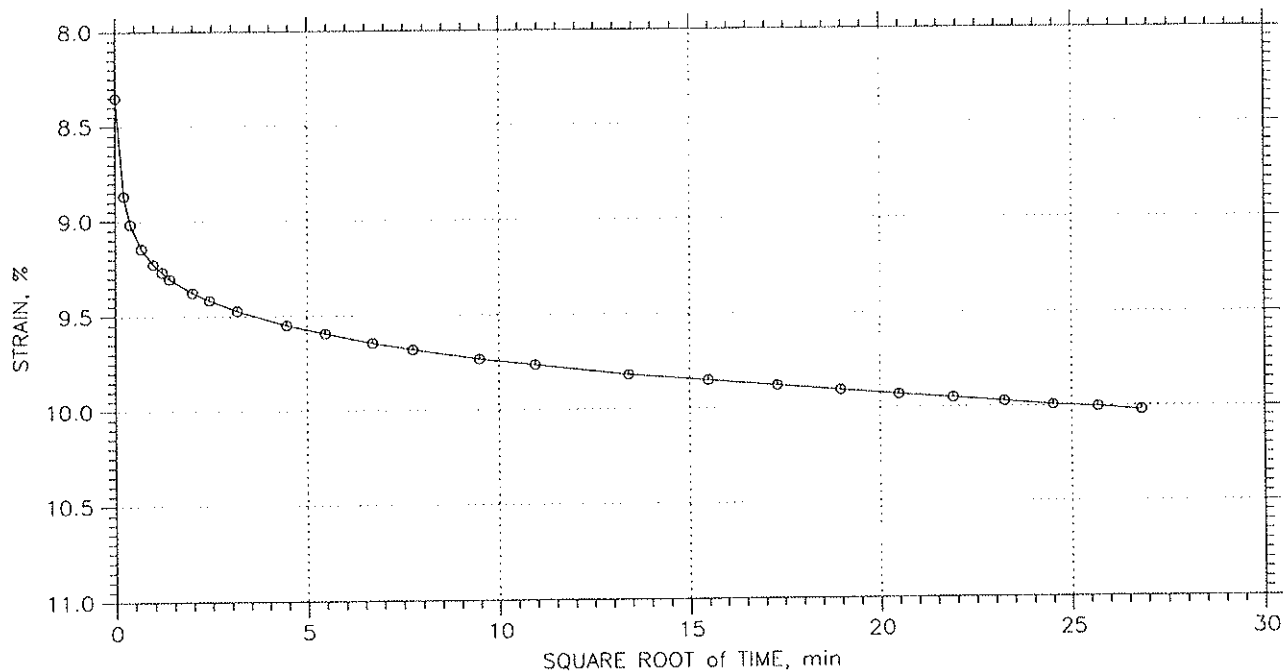
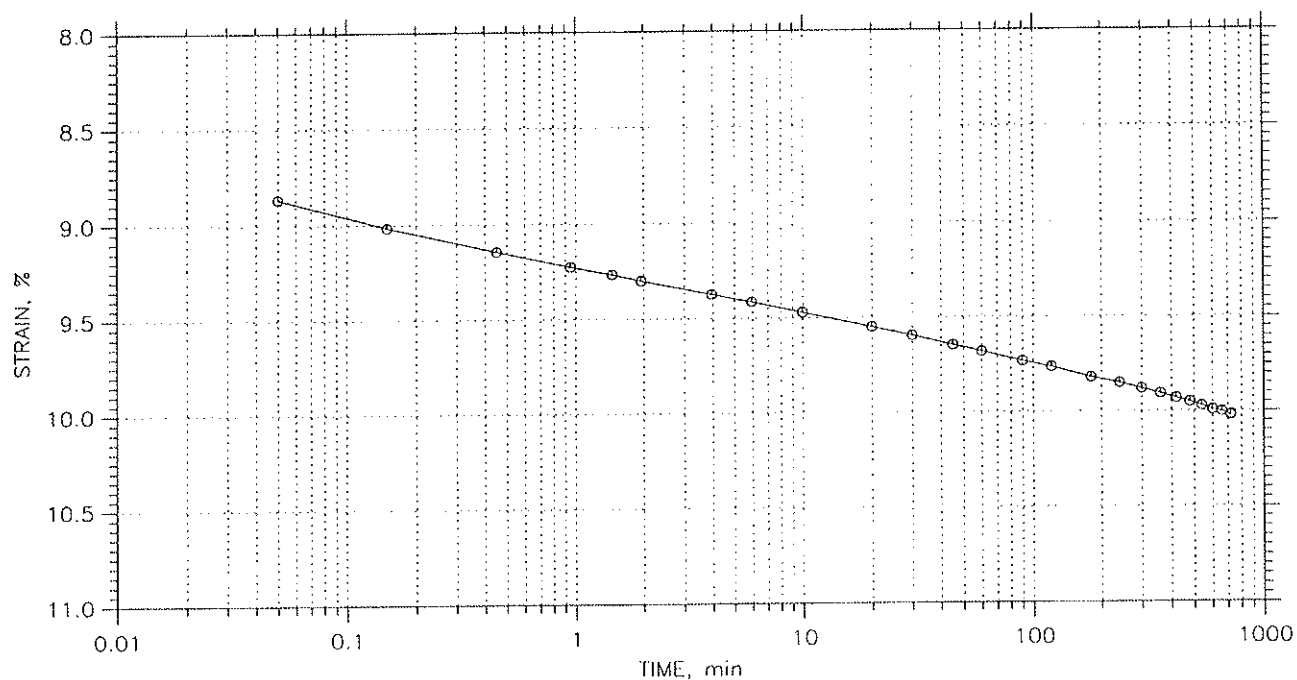
Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A KETSPAN BUSINESS SOLUTION 674 Mountain Boulevard Extension Warren, New Jersey 07059	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-1	Tested By: LL Sr.	Checked By: LL Sr.
	Sample No.: U13	Test Date: 8/17/10	Depth: 42'-44'
	Test No.: 1	Sample Type: Undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)		
Remarks: See Undisturbed Log for details.			

CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 6 of 10

Stress: 8. tsf



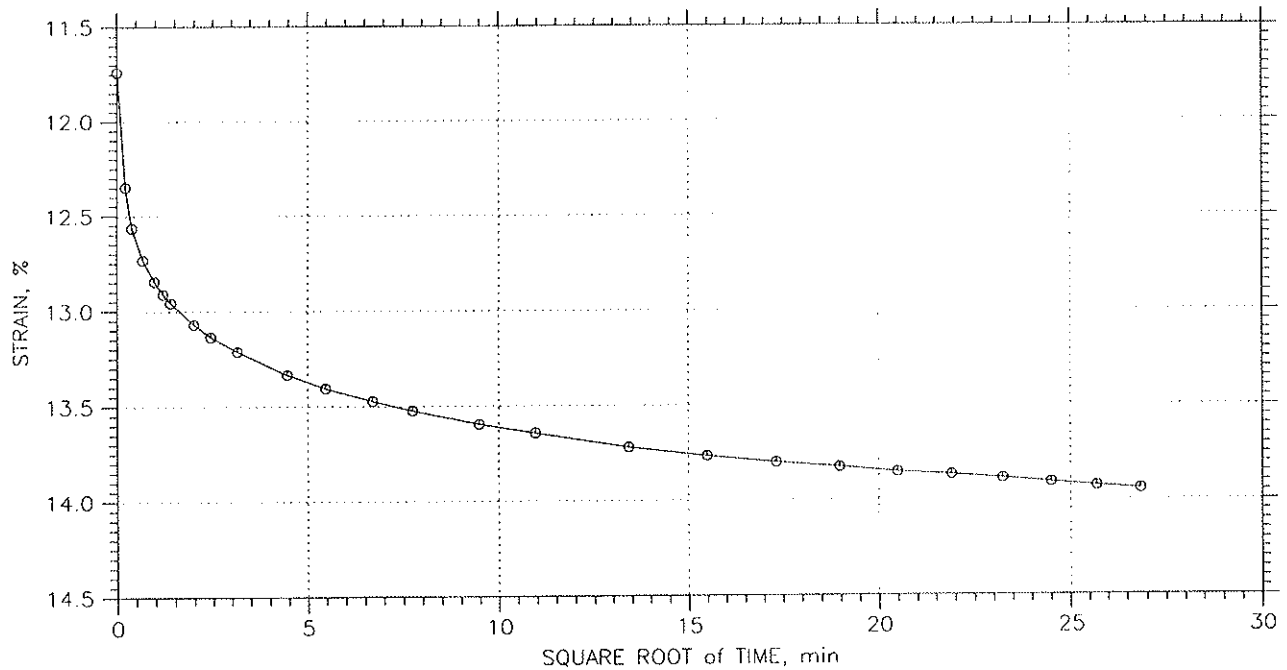
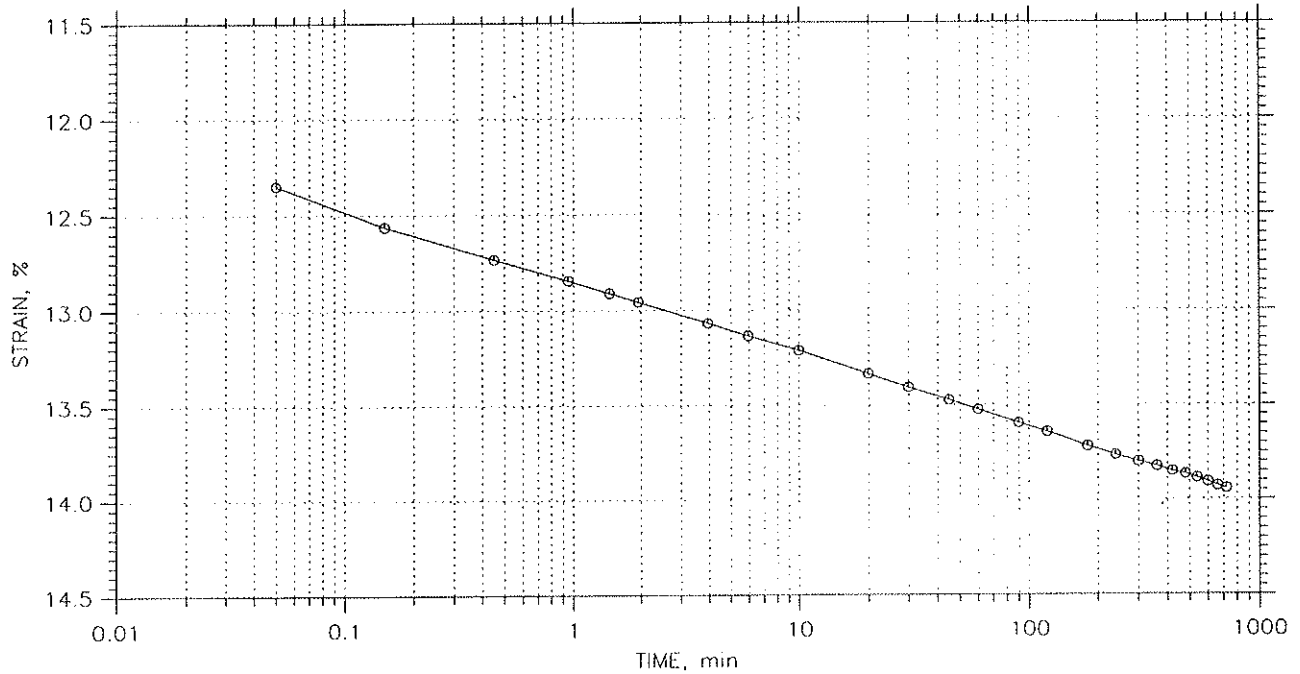
Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A KETSPAN BUSINESS SOLUTION 67A Mountain Boulevard Extension Warren, New Jersey 07059	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-1	Tested By: LL Sr.	Checked By: LL Sr.
	Sample No.: U13	Test Date: 8/17/10	Depth: 42'-44'
	Test No.: 1	Sample Type: Undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)		
	Remarks: See Undisturbed Log for details.		

CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 7 of 10

Stress: 16. tsf



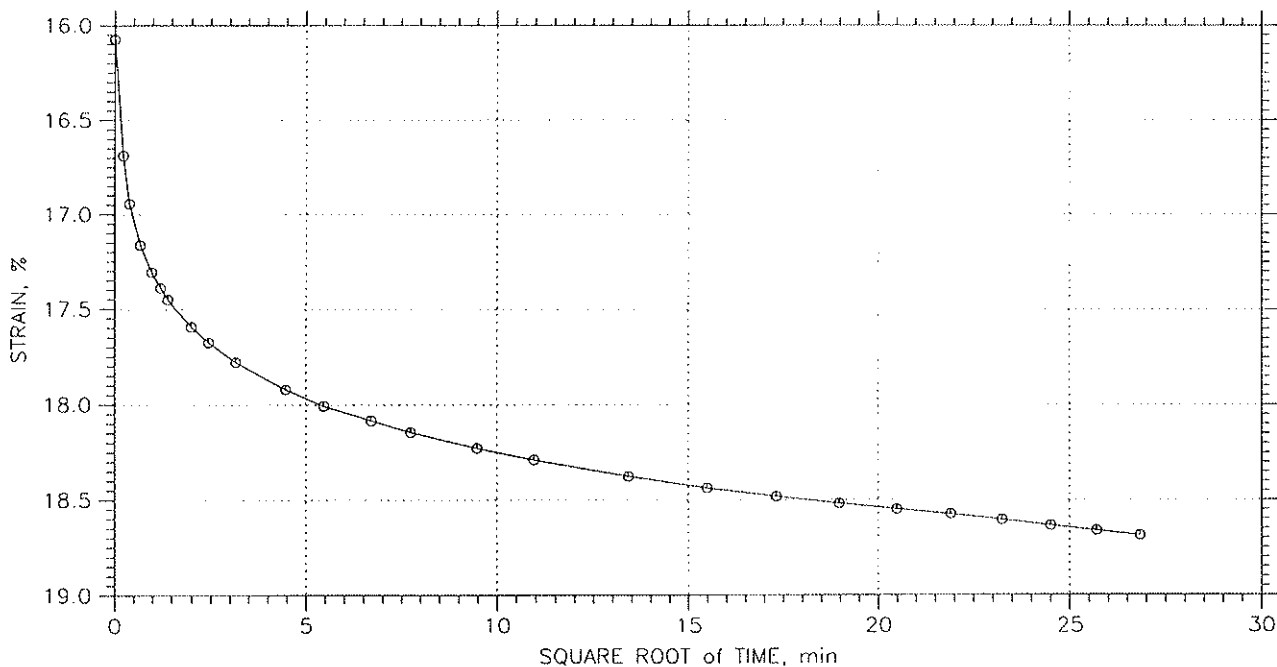
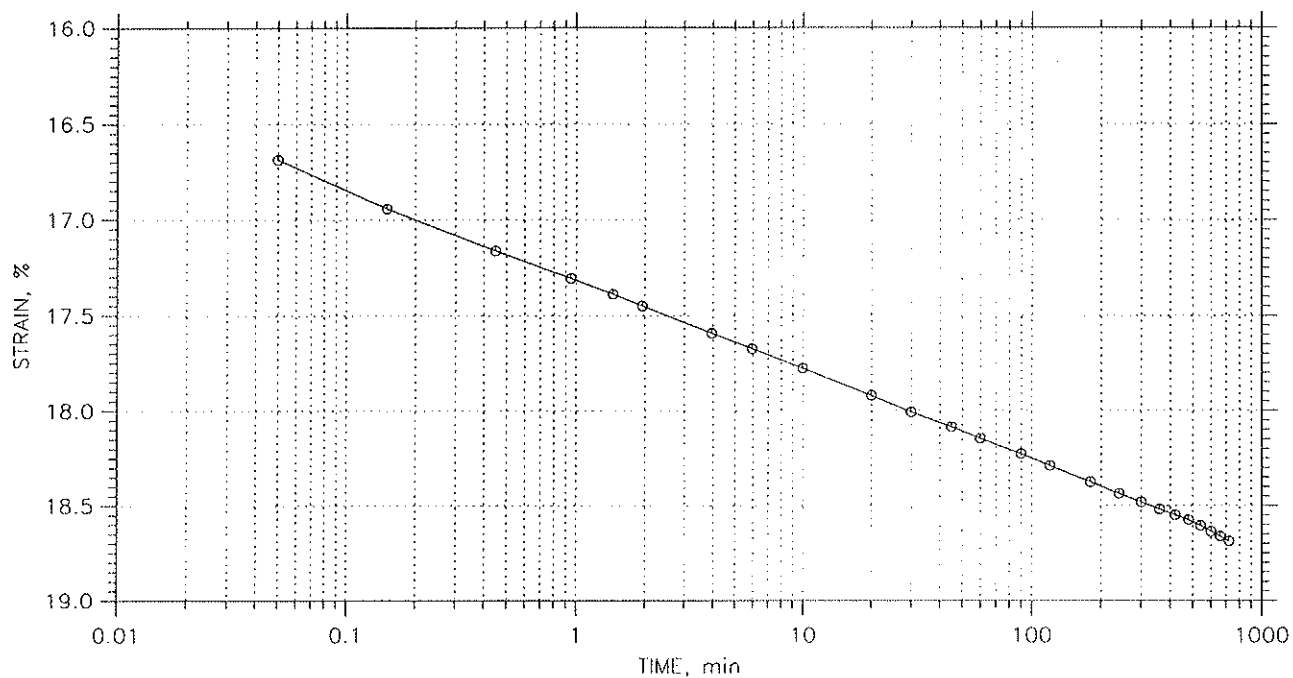
Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A KETSPAN BUSINESS SOLUTION 674 Mountain Boulevard Extension Warren, New Jersey 07059	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-1	Tested By: LL Sr.	Checked By: LL Sr.
	Sample No.: U13	Test Date: 8/17/10	Depth: 42'-44'
	Test No.: 1	Sample Type: Undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)		
Remarks: See Undisturbed Log for details.			

CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 8 of 10

Stress: 32. tsf



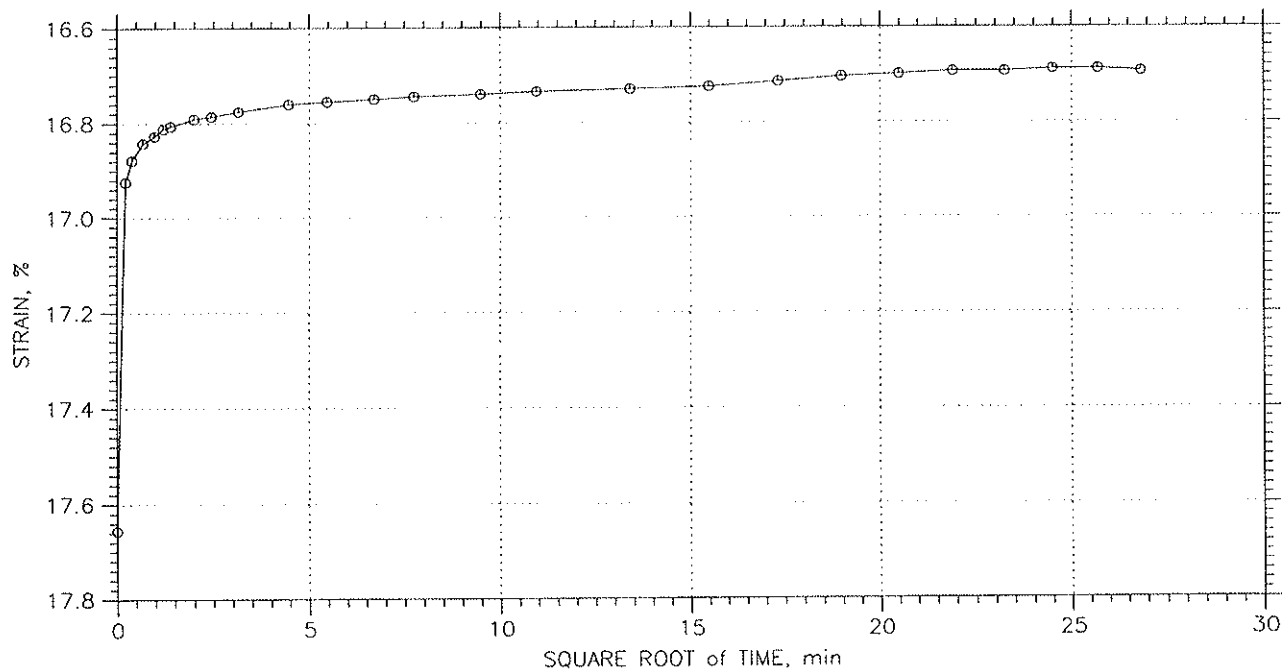
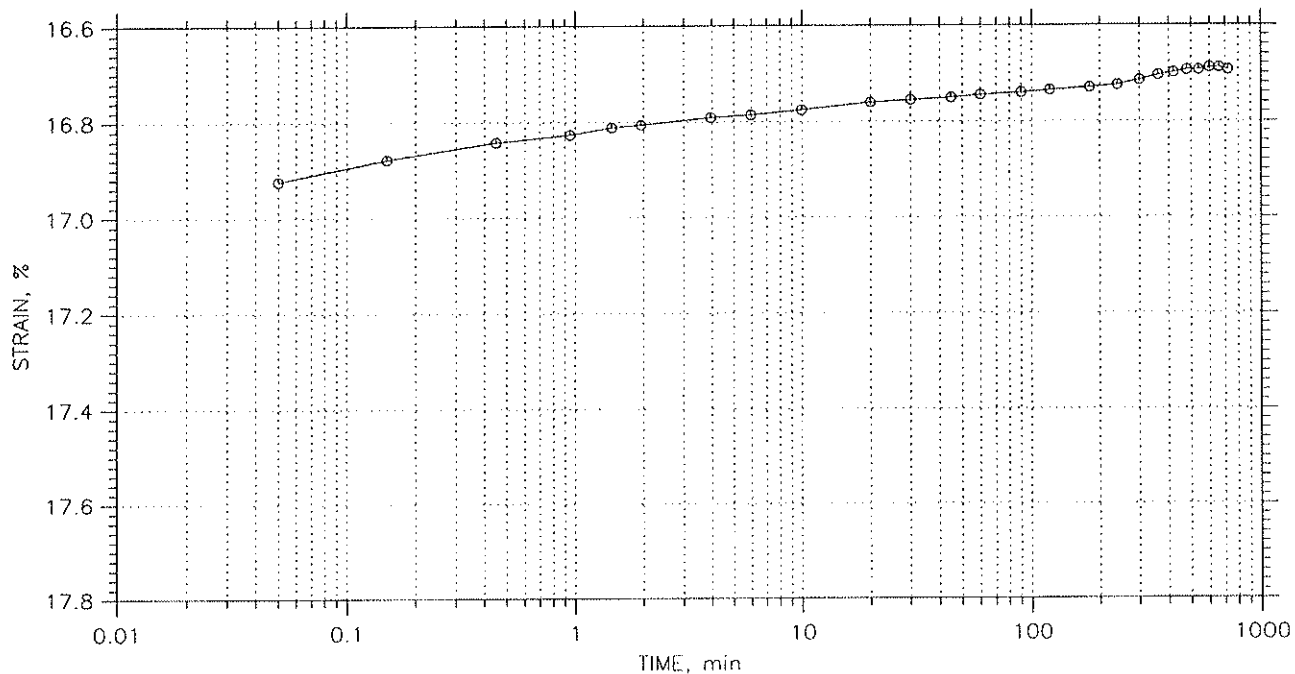
Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A KETSPAN BUSINESS SOLUTION 67A Mountain Boulevard Extension Warren, New Jersey 07059	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-1	Tested By: LL Sr.	Checked By: LL Sr.
	Sample No.: U13	Test Date: 8/17/10	Depth: 42'-44'
	Test No.: 1	Sample Type: Undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)		
	Remarks: See Undisturbed Log for details.		

CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 9 of 10

Stress: 2. tsf



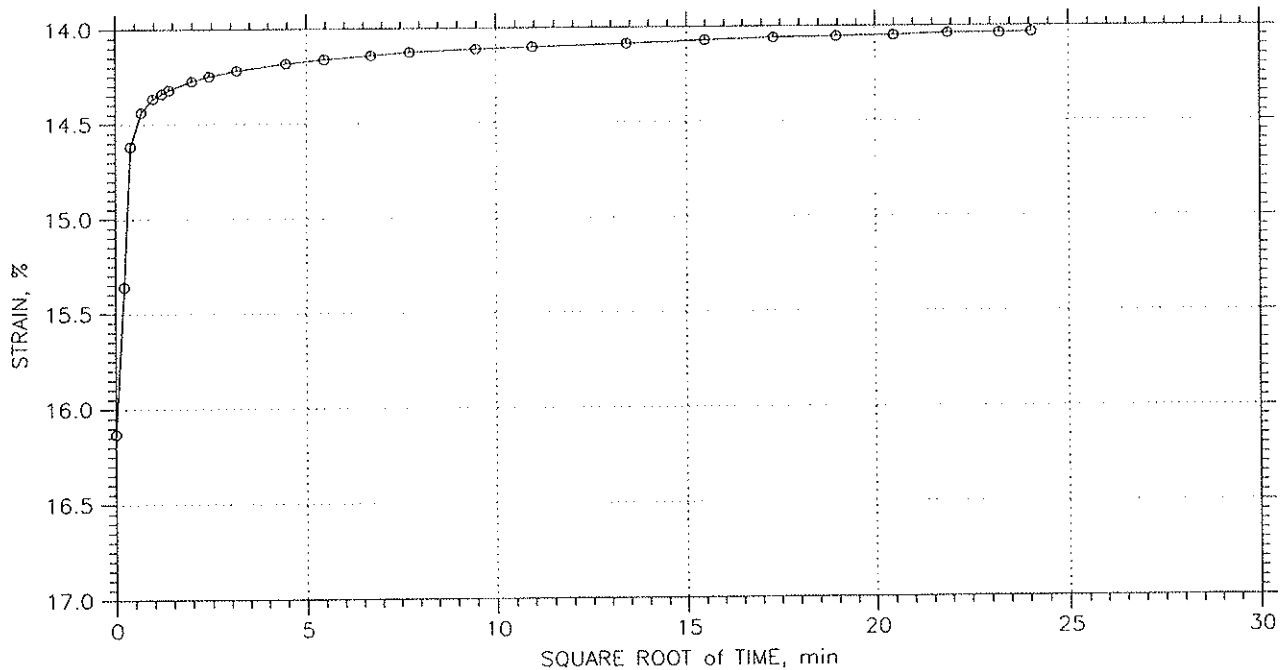
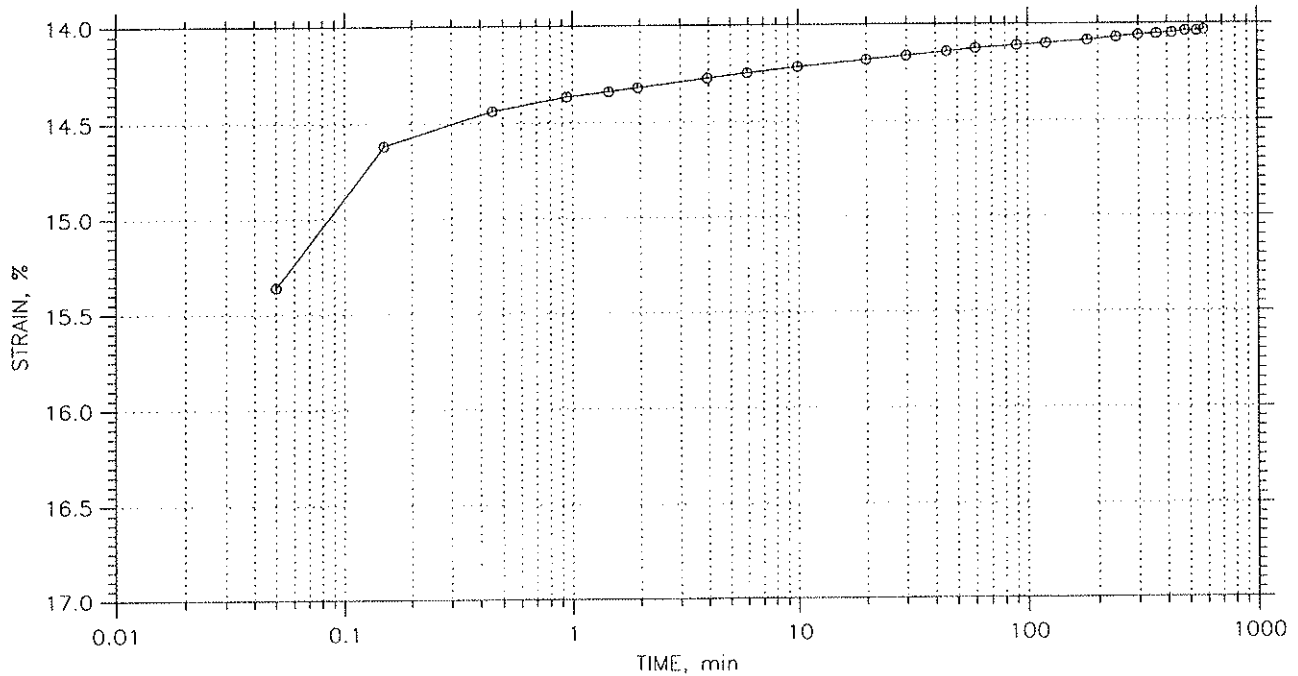
Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A KETSPAN BUSINESS SOLUTION 674 Mountain Boulevard Extension Waren, New Jersey 07059	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-1	Tested By: LL Sr.	Checked By: LL Sr.
	Sample No.: U13	Test Date: 8/17/10	Depth: 42'-44'
	Test No.: 1	Sample Type: Undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)		
	Remarks: See Undisturbed Log for details.		

CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 10 of 10

Stress: 0.25 tsf



Paulus, Sokolowski & Santor, LLC consulting engineers and environmental planners A KETSPAN BUSINESS SOLUTION 674 Mountain Boulevard Extension Warren, New Jersey 07059	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-1	Tested By: LL Sr.	Checked By: LL Sr.
	Sample No.: U13	Test Date: 8/17/10	Depth: 42'-44'
	Test No.: 1	Sample Type: Undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)		
	Remarks: See Undisturbed Log for details.		

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-1
Sample No.: U13
Test No.: 1

Location: Ansonia, Conn.
Tested By: LL Sr.
Test Date: 8/17/10
Sample Type: Undisturbed

Project No.: 40190001020
Checked By: LL Sr.
Depth: 42'-44"
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)
Remarks: See Undisturbed Log for details.

Estimated Specific Gravity: 2.64
Initial Void Ratio: 0.94
Final Void Ratio: 0.67

Liquid Limit: NP
Plastic Limit: NP
Plasticity Index: NP

Initial Height: 1.00 in
Specimen Diameter: 2.50 in

Container ID	Before Consolidation		After Consolidation	
	Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
	A	RING	ring	101
Wt. Container + Wet Soil, gm	117.35	655.29	645.21	147.99
Wt. Container + Dry Soil, gm	95.03	617.43	617.43	120.21
Wt. Container, gm	31.57	508.22	508.22	11
Wt. Dry Soil, gm	63.46	109.21	109.21	109.21
Water Content, %	35.17	34.67	25.44	25.44
Void Ratio	---	0.94	0.67	---
Degree of Saturation, %	---	96.90	99.99	---
Dry Unit Weight, pcf	---	84.756	98.593	---

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-1
Sample No.: U13
Test No.: 1

Location: Ansonia, Conn.
Tested By: LL Sr.
Test Date: 8/17/10
Sample Type: Undisturbed

Project No.: 40190001020
Checked By: LL Sr.
Depth: 42'-44'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)
Remarks: See Undisturbed Log for details.

	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sq.Rt. min	Log min	Coefficient of Consolidation.		
							Sq.Rt. ft^2/day	Log ft^2/day	Ave. ft^2/day
1	0.25	0.01709	0.911	1.71	0.1	0.0	5.49e+000	0.00e+000	5.49e+000
2	0.5	0.02481	0.896	2.48	0.8	0.0	5.60e-001	0.00e+000	5.60e-001
3	1	0.03646	0.874	3.65	0.4	0.0	1.23e+000	0.00e+000	1.23e+000
4	2	0.05163	0.844	5.16	1.3	0.0	3.36e-001	3.70e+001	6.66e-001
5	4	0.07183	0.805	7.18	2.2	0.0	1.93e-001	0.00e+000	1.93e-001
6	8	0.1002	0.750	10.02	4.3	0.0	9.52e-002	0.00e+000	9.52e-002
7	16	0.1394	0.673	13.94	4.3	0.0	8.94e-002	0.00e+000	8.94e-002
8	32	0.1869	0.581	18.69	6.6	0.0	5.23e-002	0.00e+000	5.23e-002
9	2	0.1669	0.620	16.69	0.1	0.0	2.28e+000	0.00e+000	2.28e+000
10	0.25	0.1403	0.672	14.03	0.1	0.0	4.68e+000	0.00e+000	4.68e+000

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-1
Sample No.: U13
Test No.: 1

Location: Ansonia, Conn.
Tested By: LL Sr.
Test Date: 8/17/10
Sample Type: Undisturbed

Project No.: 40190001020
Checked By: LL Sr.
Depth: 42'-44'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)
Remarks: See Undisturbed Log for details.

Constant Load Step: 1 of 10
Applied Stress: 0.25 tsf

	Elapsed Time min	Sq.Rt. of Time min	Stress tsf	Displacement in	Strain %	Void Ratio
1	0.00	0.00	0.0222	-0.0007666	-0.08	0.946
2	0.05	0.22	0.0464	0.003377	0.34	0.938
3	0.15	0.39	0.248	0.01566	1.57	0.914
4	0.45	0.67	0.246	0.01688	1.69	0.912
5	0.95	0.97	0.248	0.01704	1.70	0.911
6	1.45	1.20	0.248	0.01709	1.71	0.911
7	1.95	1.40	0.246	0.01714	1.71	0.911
8	3.95	1.99	0.246	0.01724	1.72	0.911
9	5.95	2.44	0.248	0.01724	1.72	0.911
10	9.95	3.15	0.248	0.01729	1.73	0.911
11	19.95	4.47	0.248	0.01734	1.73	0.911
12	29.95	5.47	0.248	0.0175	1.75	0.910
13	44.95	6.70	0.25	0.01729	1.73	0.911
14	59.95	7.74	0.248	0.01709	1.71	0.911
15	89.95	9.48	0.248	0.01678	1.68	0.912
16	119.95	10.95	0.248	0.01678	1.68	0.912
17	179.95	13.41	0.248	0.01683	1.68	0.912
18	239.95	15.49	0.248	0.01688	1.69	0.912
19	299.95	17.32	0.248	0.01688	1.69	0.912
20	359.95	18.97	0.248	0.01699	1.70	0.911
21	419.95	20.49	0.248	0.01704	1.70	0.911
22	479.95	21.91	0.248	0.01704	1.70	0.911
23	539.95	23.24	0.248	0.01699	1.70	0.911
24	599.95	24.49	0.246	0.01704	1.70	0.911
25	659.95	25.69	0.248	0.01704	1.70	0.911
26	719.95	26.83	0.25	0.01709	1.71	0.911
27	720.11	26.83	0.248	0.01709	1.71	0.911

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-1
Sample No.: U13
Test No.: 1

Location: Ansonia, Conn.
Tested By: LL Sr.
Test Date: 8/17/10
Sample Type: Undisturbed

Project No.: 40190001020
Checked By: LL Sr.
Depth: 42'-44'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)
Remarks: See Undisturbed Log for details.

Constant Load Step: 2 of 10
Applied Stress: 0.5 tsf

	Elapsed Time min	Sq.Rt. of Time min	Stress tsf	Displacement in	Strain %	Void Ratio
1	0.00	0.00	0.355	0.01816	1.82	0.909
2	0.05	0.22	0.464	0.02072	2.07	0.904
3	0.15	0.39	0.492	0.02205	2.20	0.902
4	0.45	0.67	0.496	0.02241	2.24	0.901
5	0.95	0.97	0.498	0.02261	2.26	0.901
6	1.45	1.20	0.496	0.02271	2.27	0.900
7	1.95	1.40	0.498	0.02276	2.28	0.900
8	3.95	1.99	0.498	0.02297	2.30	0.900
9	5.95	2.44	0.498	0.02312	2.31	0.900
10	9.95	3.15	0.498	0.02328	2.33	0.899
11	19.95	4.47	0.498	0.02348	2.35	0.899
12	29.95	5.47	0.498	0.02358	2.36	0.899
13	44.95	6.70	0.498	0.02368	2.37	0.898
14	59.95	7.74	0.498	0.02379	2.38	0.898
15	89.95	9.48	0.498	0.02389	2.39	0.898
16	119.95	10.95	0.498	0.02404	2.40	0.898
17	179.95	13.41	0.496	0.02409	2.41	0.898
18	239.95	15.49	0.498	0.02425	2.42	0.897
19	299.95	17.32	0.5	0.02425	2.42	0.897
20	359.95	18.97	0.498	0.02435	2.43	0.897
21	419.95	20.49	0.498	0.02445	2.45	0.897
22	479.95	21.91	0.498	0.0245	2.45	0.897
23	539.95	23.24	0.498	0.02461	2.46	0.897
24	599.95	24.49	0.498	0.02476	2.48	0.896
25	659.95	25.69	0.5	0.02481	2.48	0.896
26	719.95	26.83	0.5	0.02481	2.48	0.896
27	720.01	26.83	0.498	0.02481	2.48	0.896

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-1
Sample No.: U13
Test No.: 1

Location: Ansonia, Conn.
Tested By: LL Sr.
Test Date: 8/17/10
Sample Type: Undisturbed

Project No.: 40190001020
Checked By: LL Sr.
Depth: 42'-44'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)
Remarks: See Undisturbed Log for details.

Constant Load Step: 3 of 10
Applied Stress: 1 tsf

	Elapsed Time min	Sq.Rt. of Time min	Stress tsf	Displacement in	Strain %	Void Ratio
1	0.00	0.00	0.774	0.02705	2.71	0.892
2	0.05	0.22	0.984	0.0315	3.15	0.883
3	0.15	0.39	0.996	0.03237	3.24	0.882
4	0.45	0.67	0.998	0.03304	3.30	0.880
5	0.95	0.97	0.996	0.0334	3.34	0.880
6	1.45	1.20	0.996	0.0336	3.36	0.879
7	1.95	1.40	0.996	0.0337	3.37	0.879
8	3.95	1.99	0.996	0.03401	3.40	0.878
9	5.95	2.44	0.998	0.03421	3.42	0.878
10	9.95	3.15	0.996	0.03442	3.44	0.878
11	19.95	4.47	0.998	0.03467	3.47	0.877
12	29.95	5.47	0.998	0.03483	3.48	0.877
13	44.95	6.70	0.998	0.03503	3.50	0.876
14	59.95	7.74	0.998	0.03529	3.53	0.876
15	89.95	9.48	0.998	0.0356	3.56	0.875
16	119.95	10.95	0.998	0.0357	3.57	0.875
17	179.95	13.41	0.998	0.03595	3.60	0.875
18	239.95	15.49	0.998	0.03611	3.61	0.874
19	299.95	17.32	0.998	0.03621	3.62	0.874
20	359.95	18.97	0.998	0.03626	3.63	0.874
21	419.95	20.49	0.998	0.03631	3.63	0.874
22	479.95	21.91	0.998	0.03626	3.63	0.874
23	539.95	23.24	0.998	0.03636	3.64	0.874
24	599.95	24.49	1	0.03631	3.63	0.874
25	659.95	25.69	0.998	0.03636	3.64	0.874
26	719.95	26.83	0.998	0.03646	3.65	0.874
27	720.02	26.83	0.998	0.03646	3.65	0.874

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-1
Sample No.: U13
Test No.: 1

Location: Ansonia, Conn.
Tested By: LL Sr.
Test Date: 8/17/10
Sample Type: Undisturbed

Project No.: 40190001020
Checked By: LL Sr.
Depth: 42'-44'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)
Remarks: See Undisturbed Log for details.

Constant Load Step: 4 of 10
Applied Stress: 2 tsf

	Elapsed Time min	Sq.Rt. of Time min	Stress tsf	Displacement in	Strain %	Void Ratio
1	0.00	0.00	1.73	0.04145	4.15	0.864
2	0.05	0.22	1.95	0.0459	4.59	0.855
3	0.15	0.39	1.98	0.04677	4.68	0.854
4	0.45	0.67	1.99	0.04759	4.76	0.852
5	0.95	0.97	2	0.04805	4.81	0.851
6	1.45	1.20	2	0.04831	4.83	0.851
7	1.95	1.39	2	0.04846	4.85	0.850
8	3.95	1.99	2	0.04887	4.89	0.849
9	5.95	2.44	2	0.04912	4.91	0.849
10	9.95	3.15	2	0.04943	4.94	0.848
11	19.95	4.47	2	0.04974	4.97	0.848
12	29.95	5.47	2	0.04994	4.99	0.847
13	44.95	6.70	2	0.0502	5.02	0.847
14	59.95	7.74	2	0.0503	5.03	0.847
15	89.95	9.48	2	0.05061	5.06	0.846
16	119.95	10.95	2	0.05071	5.07	0.846
17	179.95	13.41	2	0.05092	5.09	0.846
18	239.95	15.49	2	0.05112	5.11	0.845
19	299.95	17.32	2	0.05117	5.12	0.845
20	359.95	18.97	2	0.05132	5.13	0.845
21	419.95	20.49	2	0.05143	5.14	0.845
22	479.95	21.91	2	0.05148	5.15	0.844
23	539.95	23.24	2	0.05153	5.15	0.844
24	599.95	24.49	2	0.05153	5.15	0.844
25	659.95	25.69	2	0.05163	5.16	0.844
26	719.95	26.83	2	0.05163	5.16	0.844
27	720.02	26.83	2	0.05163	5.16	0.844

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-1
Sample No.: U13
Test No.: 1

Location: Ansonia, Conn.
Tested By: LL Sr.
Test Date: 8/17/10
Sample Type: Undisturbed

Project No.: 40190001020
Checked By: LL Sr.
Depth: 42'-44'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)
Remarks: See Undisturbed Log for details.

Constant Load Step: 5 of 10
Applied Stress: 4 tsf

	Elapsed Time min	Sq.Rt. of Time min	Stress tsf	Displacement in	Strain %	Void Ratio
1	0.00	0.00	3.62	0.05935	5.93	0.829
2	0.05	0.22	3.92	0.06405	6.41	0.820
3	0.15	0.39	3.98	0.06518	6.52	0.818
4	0.45	0.67	4	0.06605	6.60	0.816
5	0.95	0.97	3.99	0.06661	6.66	0.815
6	1.45	1.20	4	0.06692	6.69	0.814
7	1.95	1.40	4	0.06712	6.71	0.814
8	3.95	1.99	4	0.06763	6.76	0.813
9	5.95	2.44	4	0.06794	6.79	0.812
10	9.95	3.15	4	0.06835	6.84	0.812
11	19.95	4.47	4	0.06886	6.89	0.811
12	29.95	5.47	4	0.06917	6.92	0.810
13	44.95	6.70	4	0.06948	6.95	0.809
14	59.95	7.74	4	0.06973	6.97	0.809
15	89.95	9.48	4	0.07004	7.00	0.808
16	119.95	10.95	4	0.07029	7.03	0.808
17	179.95	13.41	4	0.0706	7.06	0.807
18	239.95	15.49	4	0.07086	7.09	0.807
19	299.95	17.32	4	0.07106	7.11	0.806
20	359.95	18.97	4	0.07122	7.12	0.806
21	419.95	20.49	4	0.07137	7.14	0.806
22	479.95	21.91	4	0.07152	7.15	0.805
23	539.95	23.24	4	0.07162	7.16	0.805
24	599.95	24.49	4	0.07162	7.16	0.805
25	659.95	25.69	4	0.07178	7.18	0.805
26	719.95	26.83	4	0.07183	7.18	0.805
27	720.02	26.83	4	0.07183	7.18	0.805

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-1
Sample No.: U13
Test No.: 1

Location: Ansonia, Conn.
Tested By: LL Sr.
Test Date: 8/17/10
Sample Type: Undisturbed

Project No.: 40190001020
Checked By: LL Sr.
Depth: 42'-44'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)
Remarks: See Undisturbed Log for details.

Constant Load Step: 6 of 10
Applied Stress: 8 tsf

	Elapsed Time min	Sq.Rt. of Time min	Stress tsf	Displacement in	Strain %	Void Ratio
1	0.00	0.00	7.43	0.08351	8.35	0.782
2	0.05	0.22	7.88	0.08868	8.87	0.772
3	0.15	0.39	7.98	0.09017	9.02	0.769
4	0.45	0.67	7.98	0.09144	9.14	0.767
5	0.95	0.97	7.99	0.09226	9.23	0.765
6	1.45	1.20	8	0.09267	9.27	0.764
7	1.95	1.40	8	0.09303	9.30	0.764
8	3.95	1.99	8	0.09375	9.37	0.762
9	5.95	2.44	8	0.09416	9.42	0.761
10	9.95	3.15	8	0.09472	9.47	0.760
11	19.95	4.47	8	0.09549	9.55	0.759
12	29.95	5.47	8	0.09595	9.59	0.758
13	44.95	6.70	8	0.09646	9.65	0.757
14	59.95	7.74	8	0.09682	9.68	0.756
15	89.95	9.48	8	0.09733	9.73	0.755
16	119.95	10.95	8	0.09763	9.76	0.755
17	179.95	13.41	8	0.0982	9.82	0.754
18	239.95	15.49	8	0.0985	9.85	0.753
19	299.95	17.32	8	0.09881	9.88	0.752
20	359.95	18.97	8	0.09907	9.91	0.752
21	419.95	20.49	8	0.09932	9.93	0.751
22	479.95	21.91	8	0.09953	9.95	0.751
23	539.95	23.24	8	0.09973	9.97	0.751
24	599.95	24.49	8	0.09994	9.99	0.750
25	659.95	25.69	8	0.1	10.00	0.750
26	719.95	26.83	8	0.1002	10.02	0.750
27	720.02	26.83	8	0.1002	10.02	0.750

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-1
Sample No.: U13
Test No.: 1

Location: Ansonia, Conn.
Tested By: LL Sr.
Test Date: 8/17/10
Sample Type: Undisturbed

Project No.: 40190001020
Checked By: LL Sr.
Depth: 42'-44'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)
Remarks: See Undisturbed Log for details.

Constant Load Step: 7 of 10
Applied Stress: 16 tsf

	Elapsed Time min	Sq.Rt. of Time min	Stress tsf	Displacement in	Strain %	Void Ratio
1	0.00	0.00	15.1	0.1174	11.74	0.716
2	0.05	0.22	15.8	0.1235	12.35	0.704
3	0.15	0.39	16	0.1256	12.56	0.700
4	0.45	0.67	16	0.1273	12.73	0.697
5	0.95	0.97	16	0.1284	12.84	0.695
6	1.45	1.20	16	0.1291	12.91	0.693
7	1.95	1.39	16	0.1296	12.96	0.693
8	3.95	1.99	16	0.1307	13.07	0.690
9	5.95	2.44	16	0.1314	13.14	0.689
10	9.95	3.15	16	0.1321	13.21	0.688
11	19.95	4.47	16	0.1334	13.34	0.685
12	29.95	5.47	16	0.1341	13.41	0.684
13	44.95	6.70	16	0.1347	13.47	0.683
14	59.95	7.74	16	0.1352	13.52	0.682
15	89.95	9.48	16	0.136	13.60	0.680
16	119.95	10.95	16	0.1364	13.64	0.679
17	179.95	13.41	16	0.1372	13.72	0.678
18	239.95	15.49	16	0.1377	13.77	0.677
19	299.95	17.32	16	0.138	13.80	0.676
20	359.95	18.97	16	0.1383	13.83	0.676
21	419.95	20.49	16	0.1385	13.85	0.675
22	479.95	21.91	16	0.1387	13.87	0.675
23	539.95	23.24	16	0.1389	13.89	0.674
24	599.95	24.49	16	0.1391	13.91	0.674
25	659.95	25.69	16	0.1393	13.93	0.674
26	719.95	26.83	16	0.1394	13.94	0.673
27	720.03	26.83	16	0.1394	13.94	0.673

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-1
Sample No.: U13
Test No.: 1

Location: Ansonia, Conn.
Tested By: LL Sr.
Test Date: 8/17/10
Sample Type: Undisturbed

Project No.: 40190001020
Checked By: LL Sr.
Depth: 42'-44'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)
Remarks: See Undisturbed Log for details.

Constant Load Step: 8 of 10
Applied Stress: 32 tsf

	Elapsed Time min	Sq.Rt. of Time min	Stress tsf	Displacement in	Strain %	Void Ratio
1	0.00	0.00	31	0.1607	16.07	0.632
2	0.05	0.22	31.8	0.1669	16.69	0.620
3	0.15	0.39	32	0.1694	16.94	0.615
4	0.45	0.67	32	0.1716	17.16	0.611
5	0.95	0.97	32	0.1731	17.31	0.608
6	1.45	1.20	32	0.1739	17.39	0.606
7	1.95	1.39	32	0.1745	17.45	0.605
8	3.95	1.99	32	0.1759	17.59	0.602
9	5.95	2.44	32	0.1767	17.67	0.601
10	9.95	3.15	32	0.1778	17.78	0.599
11	19.95	4.47	32	0.1792	17.92	0.596
12	29.95	5.47	32	0.1801	18.01	0.594
13	44.95	6.70	32	0.1808	18.08	0.593
14	59.95	7.74	32	0.1815	18.15	0.592
15	89.95	9.48	32	0.1823	18.23	0.590
16	119.95	10.95	32	0.1829	18.29	0.589
17	179.95	13.41	32	0.1838	18.38	0.587
18	239.95	15.49	32	0.1844	18.44	0.586
19	299.95	17.32	32	0.1848	18.48	0.585
20	359.95	18.97	32	0.1852	18.52	0.584
21	419.95	20.49	32	0.1855	18.55	0.584
22	479.95	21.91	32	0.1858	18.58	0.583
23	539.95	23.24	32	0.1861	18.61	0.583
24	599.95	24.49	32	0.1864	18.64	0.582
25	659.95	25.69	32	0.1866	18.66	0.582
26	719.95	26.83	32	0.1869	18.69	0.581
27	720.02	26.83	32	0.1869	18.69	0.581

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-1
Sample No.: 013
Test No.: 1

Location: Ansonia, Conn.
Tested By: LL Sr.
Test Date: 8/17/10
Sample Type: Undisturbed

Project No.: 40190001020
Checked By: LL Sr.
Depth: 42'-44'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)
Remarks: See Undisturbed Log for details.

Constant Load Step: 9 of 10
Applied Stress: 2 tsf

	Elapsed Time min	Sq.Rt. of Time min	Stress tsf	Displacement in	Strain %	Void Ratio
1	0.00	0.00	3.17	0.1766	17.66	0.601
2	0.05	0.22	2.04	0.1692	16.92	0.615
3	0.15	0.39	2.01	0.1688	16.88	0.616
4	0.45	0.67	2	0.1684	16.84	0.617
5	0.95	0.97	2	0.1683	16.83	0.617
6	1.45	1.20	2	0.1681	16.81	0.618
7	1.95	1.40	2	0.1681	16.81	0.618
8	3.95	1.99	2	0.1679	16.79	0.618
9	5.95	2.44	2	0.1679	16.79	0.618
10	9.95	3.15	2	0.1678	16.78	0.618
11	19.95	4.47	2	0.1676	16.76	0.619
12	29.95	5.47	2	0.1676	16.76	0.619
13	44.95	6.70	2	0.1675	16.75	0.619
14	59.95	7.74	2	0.1675	16.75	0.619
15	89.95	9.48	2	0.1674	16.74	0.619
16	119.95	10.95	2	0.1673	16.73	0.619
17	179.95	13.41	2	0.1673	16.73	0.619
18	239.95	15.49	2	0.1672	16.72	0.619
19	299.95	17.32	2	0.1671	16.71	0.620
20	359.95	18.97	2	0.167	16.70	0.620
21	419.95	20.49	2	0.167	16.70	0.620
22	479.95	21.91	2	0.1669	16.69	0.620
23	539.95	23.24	2	0.1669	16.69	0.620
24	599.95	24.49	2	0.1669	16.69	0.620
25	659.95	25.69	2	0.1669	16.69	0.620
26	719.95	26.83	2	0.1669	16.69	0.620
27	720.03	26.83	2	0.1669	16.69	0.620

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-1
Sample No.: U13
Test No.: 1

Location: Ansonia, Conn.
Tested By: LL Sr.
Test Date: 8/17/10
Sample Type: Undisturbed

Project No.: 40190001020
Checked By: LL Sr.
Depth: 42'-44'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, some/and silt (SM)
Remarks: See Undisturbed Log for details.

Constant Load Step: 10 of 10
Applied Stress: 0.25 tsf

	Elapsed Time min	Sq.Rt. of Time min	Stress tsf	Displacement in	Strain %	Void Ratio
1	0.00	0.00	0.704	0.1613	16.13	0.631
2	0.05	0.22	0.393	0.1536	15.36	0.646
3	0.15	0.39	0.28	0.1462	14.62	0.660
4	0.45	0.67	0.25	0.1444	14.44	0.664
5	0.95	0.97	0.25	0.1437	14.37	0.665
6	1.45	1.20	0.25	0.1434	14.34	0.666
7	1.95	1.40	0.25	0.1432	14.32	0.666
8	3.95	1.99	0.248	0.1427	14.27	0.667
9	5.95	2.44	0.248	0.1425	14.25	0.667
10	9.95	3.15	0.248	0.1422	14.22	0.668
11	19.95	4.47	0.248	0.1418	14.18	0.669
12	29.95	5.47	0.248	0.1416	14.16	0.669
13	44.95	6.70	0.25	0.1414	14.14	0.670
14	59.95	7.74	0.248	0.1413	14.13	0.670
15	89.95	9.48	0.248	0.1411	14.11	0.670
16	119.95	10.95	0.248	0.141	14.10	0.670
17	179.95	13.41	0.248	0.1409	14.09	0.671
18	239.95	15.49	0.248	0.1407	14.07	0.671
19	299.95	17.32	0.248	0.1406	14.06	0.671
20	359.95	18.97	0.246	0.1405	14.05	0.671
21	419.95	20.49	0.248	0.1405	14.05	0.671
22	479.95	21.91	0.248	0.1404	14.04	0.672
23	539.95	23.24	0.248	0.1404	14.04	0.672
24	578.91	24.06	0.248	0.1403	14.03	0.672

CONSOLIDATION TEST 2

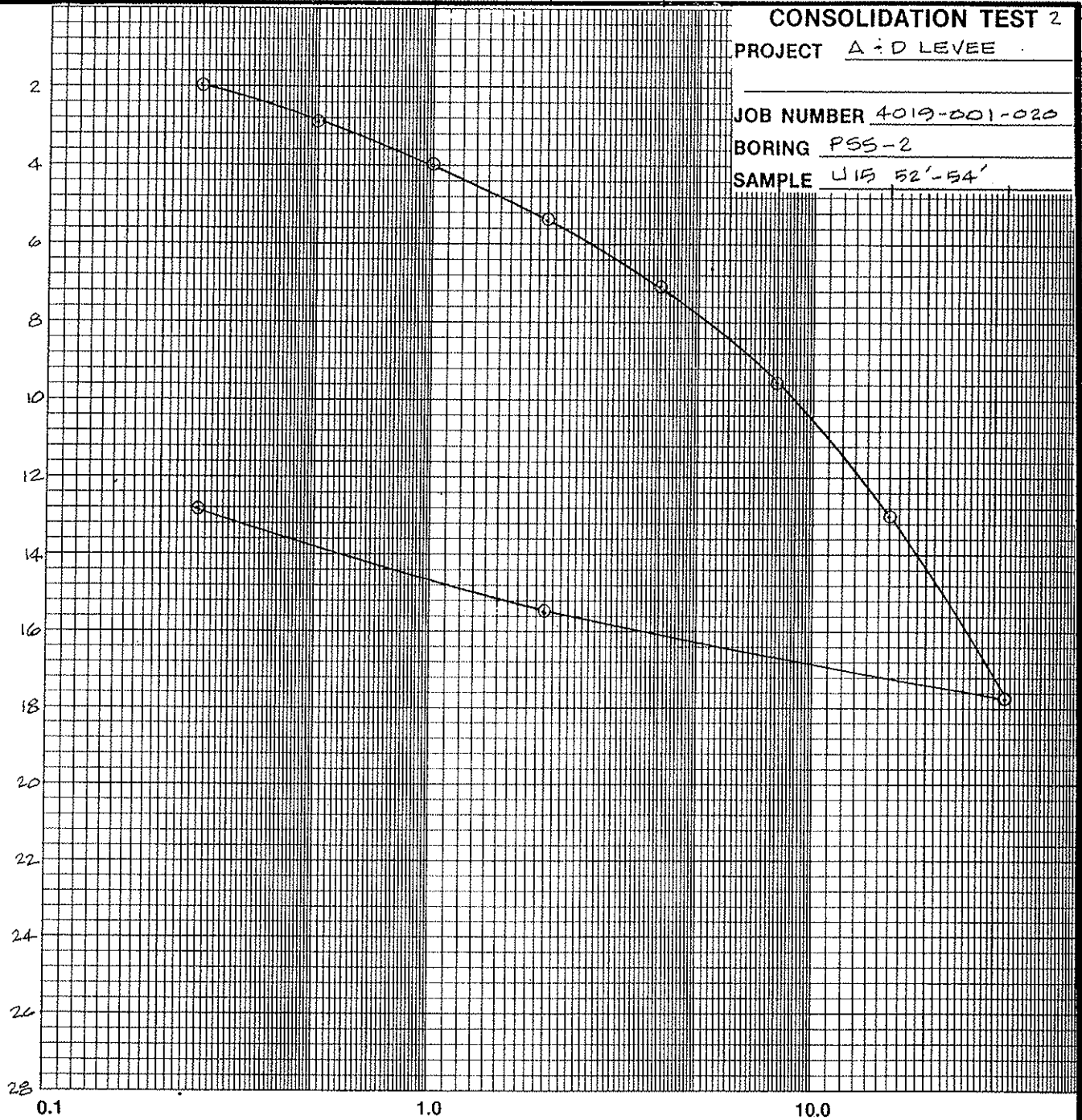
PROJECT A-D LEVEE

JOB NUMBER 4019-001-020

BORING PSS-2

SAMPLE U15 52'-54'

UNIT STRAIN



PRESSURE IN TONS PER SQ. FT.

DESCRIPTION OF SAMPLE				THINLY LAYERED GRAY SILT : CLAYEY SILT (ML) AND F SAND, AND SILT (SM)				STRATUM:	
PROPERTIES OF CONSOLIDATION SPECIMEN	ELEVATION OF SPECIMEN		PROPERTIES OF PLASTICITY LIMIT SPECIMEN	UNIFIED CLASSIFICATION	ML/SM	INITIAL VOID RATIO (e ₀).		0.972	
	DEPTH OF SPECIMEN (FT.)	± 52.7		LIQUID LIMIT (W _L)		MOST PROBABLE PRE-CONSOLIDATION STRESS (TSF) SHOWN THUS: P _c ↓		6.4	
	DIAMETER OF SPECIMEN (IN.)	2.5		PLASTIC LIMIT (W _p)		EXISTING OVERBURDEN STRESS (TSF) SHOWN THUS: P ₀ ↓		5.39	
	INITIAL THICKNESS OF SPECIMEN (IN.)	1.0		PLASTICITY INDEX (I _p)	NP	COMPRESSION INDEX C _c = $\frac{C_c}{1 + e_0}$		0.141	
	INITIAL WATER CONTENT %	35.8		NATURAL WATER CONT. % (W)					
	FINAL WATER CONTENT %	26.7		LIQUIDITY INDEX = $\frac{W - W_p}{I_p}$	NP				
	INITIAL DEGREE SATURATION %	99.0		SPECIFIC GRAVITY (G)	2.69				
	FINAL DEGREE SATURATION %	100							

PLATE

CONSOLIDATION TEST

CELL # 69

~ AUTOMATED ~
± 12 HOURS / LOAD

TEST # 2
DATA SHEET

PROJECT Δ: D LEVEE

JOB NUMBER 4019-001-020

LOCATION OF PROJECT ANSONIA, CONNECTICUT COUNTY BORING NO. P66-2 SAMPLE NO. U15

VISUAL CLASSIFICATION THINLY LAYERED SILT; CLAYEY SILT (ML); F-SAND, AND SILT (SM) DEPTH 52'-54'

LOADING TEST DATA: LOAD tsf; DATE APPLIED ; APPLIED BY LLSR

SEE ATTACHED
DATA SHEETS

APPARATUS MEASUREMENTS	
Diameter Ring	6.35 cm.
Area Ring	31.67 cm ²
Height Ring, Z ₁	1.0 in.

SPECIMEN HEIGHTS	INITIAL	FINAL AT ZERO LOAD
Height of gouge block, H _g	in.	in.
Dial reading on gouge block	in.	in.
Dial reading on specimen	in.	in.
Difference in dial reading ΔD	in.	in.
Specimen height H = H _g + ΔD	in.	in.
Specimen height by depth gouge	in.	in.
Thickness of stone + filter paper, Z ₂	in.	in.
Distance from top of stone to ring	in.	in.
Specimen H _t , H = Z ₁ + Z ₃ - Z ₂	in.	in.

SOIL AND RING WEIGHTS	INITIAL	FINAL
Weight Ring & Wet Soil in gm.	687.46	150.01
Weight Ring in gm./tare	538.50	11.00
Weight Wet Soil, W _i in gm.	148.96	139.01
Weight Dry Soil, W _s = W _i / 1 + w, in gm.	109.79	109.71

WATER CONTENT	INITIAL	FINAL
Specimen location		
Container number	LID	"B" TARE #105
Weight container + wet soil in gm.		121.06
Weight container + dry soil in gm.		37.72
Weight water, W _w , in gm.		23.34
Weight container in gm.		32.28
Weight dry soil, w _s , in gm.		65.44
Water content, w in %		35.67
Average water content		26.71

INITIAL WATER CONTENT DETERMINED FROM FINAL WEIGHT OF DRY SOIL	
Initial weight wet soil in gm.	148.96
Final weight dry soil in gm.	109.71
Weight of water, W _w	39.25
Initial water content in %	35.78

SOLIDS HEIGHT, H _s	
Initial weight dry soil in gm.	109.79
Final weight dry soil in gm.	109.71
Average weight dry soil in gm.	109.75
Solids height, W _s / H _s = GATW	1.2878 cm. 0.5070 in.

UNCORRECTED	INITIAL	FINAL
Void Ratio e = $\frac{H - H_s}{H_s}$	0.9723	0.7183
Degree of Saturation S = $\frac{W_w}{e}$	99.0	100

FINAL READING
0.1288"

H_i at S = 100% = in.

H_i measured = in.

Difference = in.

CALCULATIONS: G_s = 2.69

γ_t = 115.6 pcf

γ_d = 85.2 pcf

ATTERBERG LIMITS TEST DATA

CLASSIFICATION *Thinly layered gray silt, clayey silt (ML) + sand, and silt (SM)*

JOB NO. *4019-001-020*

CLIENT/OWNER *A. D. LEVEE*

LOCATION *ANSONIA, CONN*

BORING *PSS-2* SAMPLE *U15* DEPTH *52'-54'*

FIELD DENSITY BY *1/1/1*

DETERMINATION	1	2
NUMBER OF RINGS		
WT OF RINGS + WET SOIL		
WT OF RINGS		
WT OF WET SOIL		
FIELD DENSITY		
DRY DENSITY		

DETERMINATION	1	2
DISH		
WT OF DISH + WET SOIL		
WT OF DISH + DRY SOIL		
WT OF MOISTURE		
WT OF DISH		
WT OF DRY SOIL		
FIELD MOISTURE CONTENT	FROM CONSOL.	

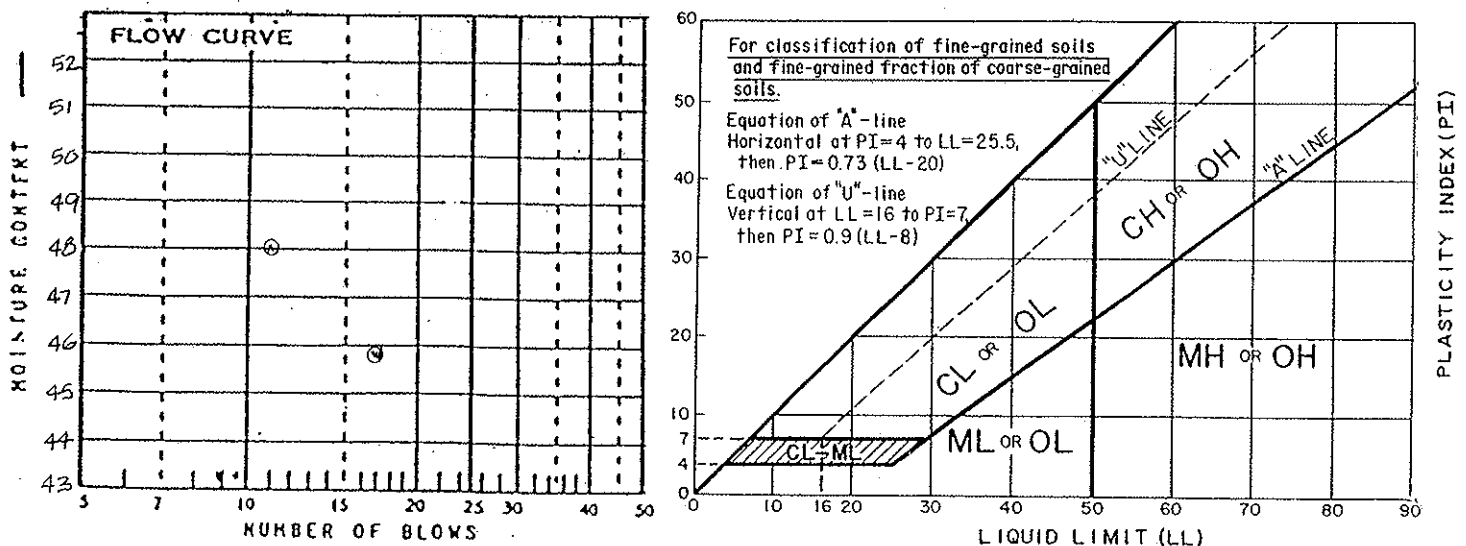
PLASTIC LIMIT BY *LL B.12/110* *Unable to roll threads - mat'l. brittle & non plastic.*

DETERMINATION	1	2	3	4	5	6
DISH (LIDS)						
WT OF DISH + WET SOIL						
WT OF DISH + DRY SOIL						
WT OF MOISTURE						
WT OF DISH						
WT OF DRY SOIL						
MOISTURE CONTENT						

LIQUID LIMIT - *Unable to obtain LL pt. > 17 blows - mat'l. brittle*

DETERMINATION	1	2	3	4	5	6
DISH (BOTTOMS)	103	104				
NUMBER OF BLOWS	17	11				
WT OF DISH + WET SOIL	24.76	23.26				
WT OF DISH + DRY SOIL	20.48	19.40				
WT OF MOISTURE	4.28	3.86				
WT OF DISH	11.14	11.18				
WT OF DRY SOIL	9.34	8.22				
MOISTURE CONTENT	45.8	47.0				

Plasticity Chart



SUMMARY

DRY DENSITY	MOISTURE CONTENT	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	IDENTIFICATION
	39.7			NP	(ML)/(SM)



PAULUS
SOKOLOWSKI
and SARTOR, INC.
CONSULTING ENGINEERS

UNDISTURBED SAMPLE LOG

Boring No.: PSS-2

Job No.: 4019-001-020

Sample No. & Depth: U15 52'-54'

Project: A:D LEVEE

Recovery: 21"

Date Tested: 8-12-10

REVISED 8-17-10

Sample Method: SHELBY

Tested By: LLSR, AL

Date of Sample: 7-30-10

Checked By: MBD

Testing Notes: SEE BELOW

Depth Length (inches) Soil Classification

Tube	Sample	
52'	24	
	23	
	22	
	21	
	20	
	19	
	18	- P.P. = 2.0 TSF
	17	
	16	
	15	
	14	- P.P. = 1.5 TSF
	13	
53'	12	18" Thinly layered gray silt; clayey silt (ML); f sand, and silt (SM)
	11	Note: occ. 1/16" thick silty clay lenses / layers
	10	(ML) & (SM) non-cohesive, sl. dilatant
	9	sporadic mica flakes
	8	typical layer thickness: 1/16" - 1/4"
	7	
	6	
	5	
	4	
	3	
	2	3" Gray silt (ML)
	1	highly dilatant 0"-3"
54'		

Remarks: 4" section saved (14"-18") - Consol. Test (difficult trimming)
 11" " " (3"-14")

SPECIFIC GRAVITY TEST

Soil Sample: Both: Thinly layered gray silt: clayey
silt (ML) & f sand, and silt (SM)

Job No. 4019-001-020

Date 8.17.10

Location: ANSONIA, CONN.

Boring No. _____

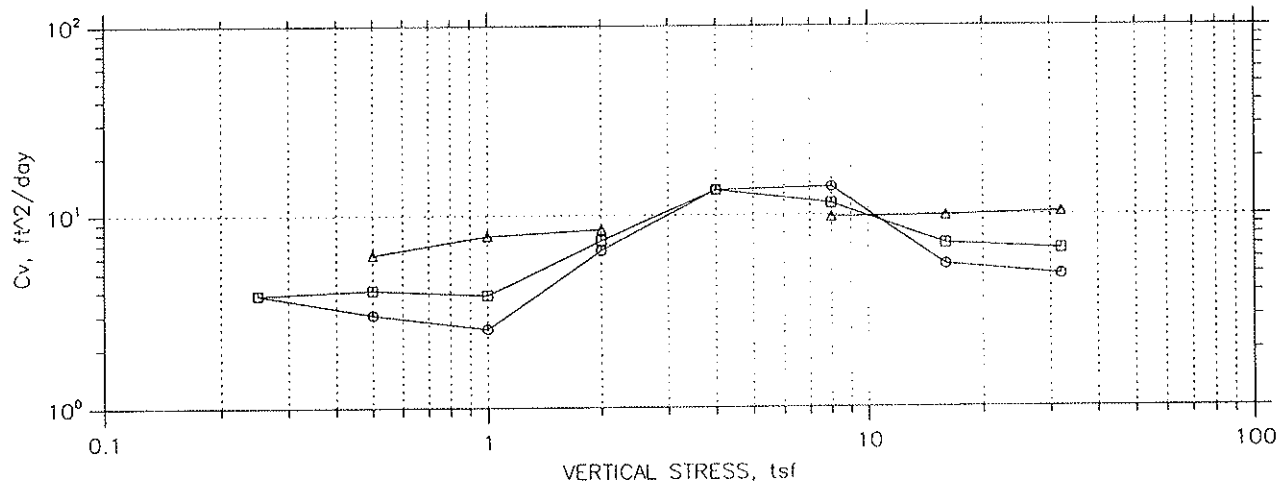
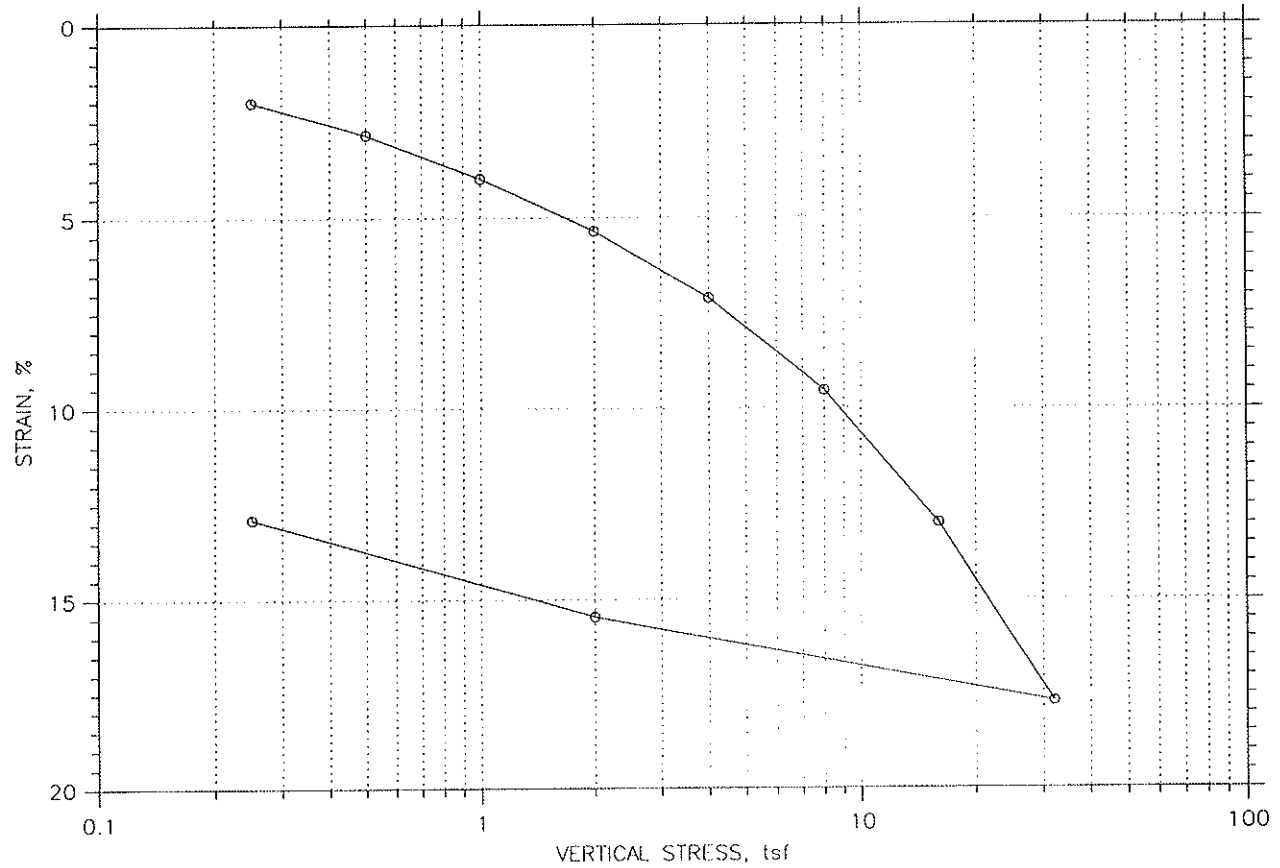
Sample No. _____ Depth _____

Determination No.	PSS-1 113 42'-44' 1	PSS-2 115 52'-54' 2	3	4
Bottle No.	" D "	" D "		
Wt. Bottle + Water + Soil, W ₁ gms	392.36	392.75		
Temperature, T, °C	21°C	21°C		
Wt. Bottle + Water, W ₂ , gms	361.27	361.27		
Tare No.	C	D		
Wt. Tare + Dry Soil, gms	82.02	82.19		
Wt. Tare, gms	32.02	32.19		
Wt. Soil, W _s , gms	50.00	50.00		
Specific Gravity of Water at T, G _t	0.9980	0.9980		
Specific Gravity of Soil G _s	2.64	2.69		

Remarks

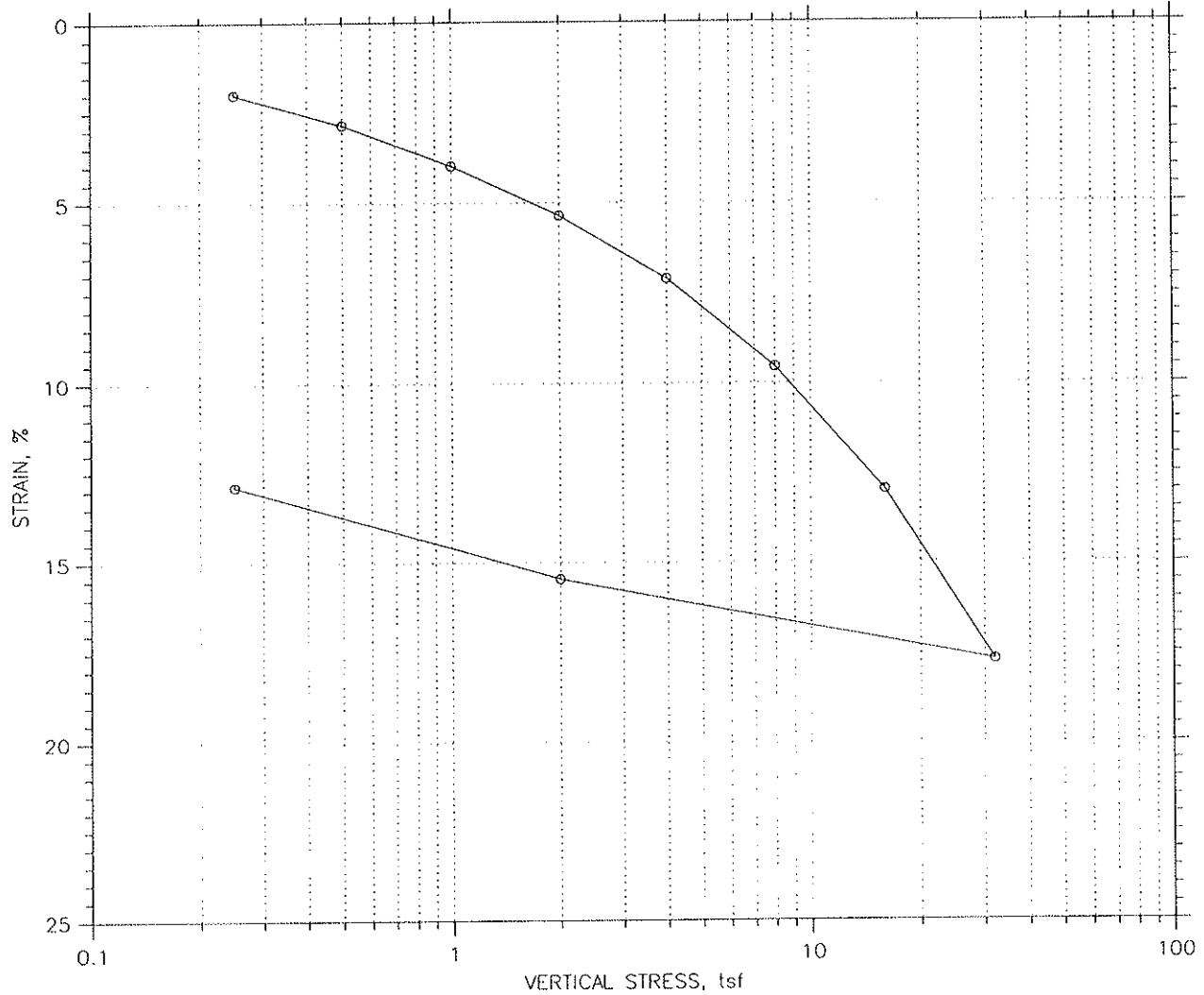
$$G_s = \frac{W_s (G_t)}{W_s - (W_1 - W_2)}$$

CONSOLIDATION TEST DATA SUMMARY REPORT



Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A KETSPAN BUSINESS SOLUTION 674 Mountain Boulevard Extension Warren, New Jersey 07059	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-2	Tested By: LL Sr.,	Checked By: LL Sr
	Sample No.: U15	Test Date: 8/17/10	Depth: 52'-54'
	Test No.: 2	Sample Type: undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)		
	Remarks: See Undisturbed Log for details.		

CONSOLIDATION TEST DATA SUMMARY REPORT



				Before Test	After Test	
Overburden Pressure: 0 tsf			Water Content, %	35.78	26.71	
Preconsolidation Pressure: 0 tsf			Dry Unit Weight, pcf	85.14	97.73	
Compression Index: 3.81959e-313			Saturation, %	98.98	100.02	
Diameter: 2.5 in		Height: 1 in		Void Ratio	0.97	0.72
LL: NP	PL: NP	PI: NP	GS: 2.69			

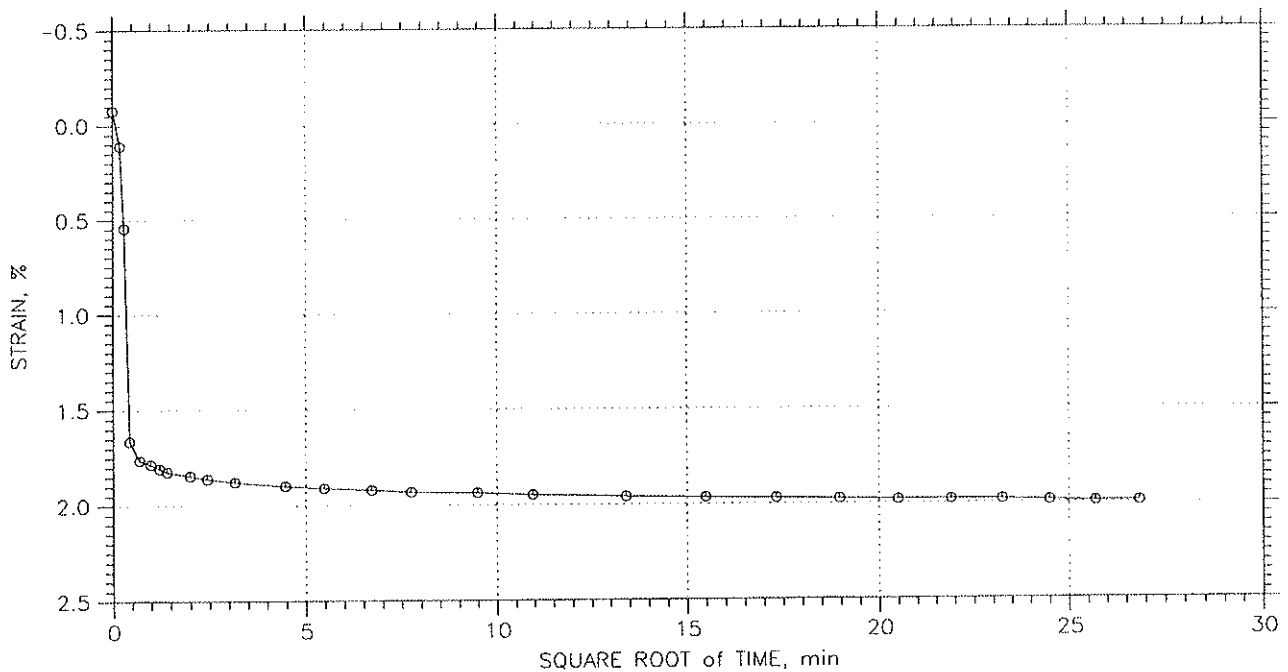
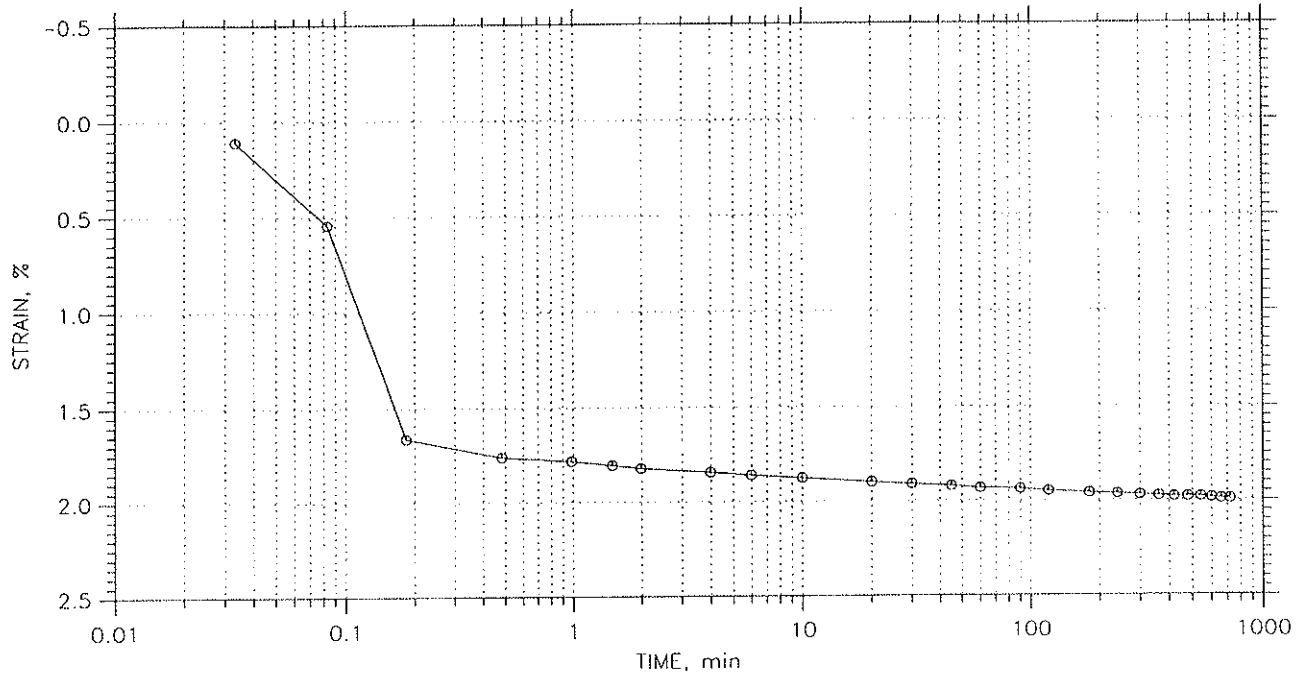
Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A KETSPAN BUSINESS SOLUTION 674 Mountain Boulevard Suite 200 Wenonah, New Jersey 07098	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-2	Tested By: LL Sr.,	Checked By: LL Sr
	Sample No.: U15	Test Date: 8/17/10	Depth: 52'-54'
	Test No.: 2	Sample Type: undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)		
	Remarks: See Undisturbed Log for details.		

CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 1 of 10

Stress: 0.25 tsf



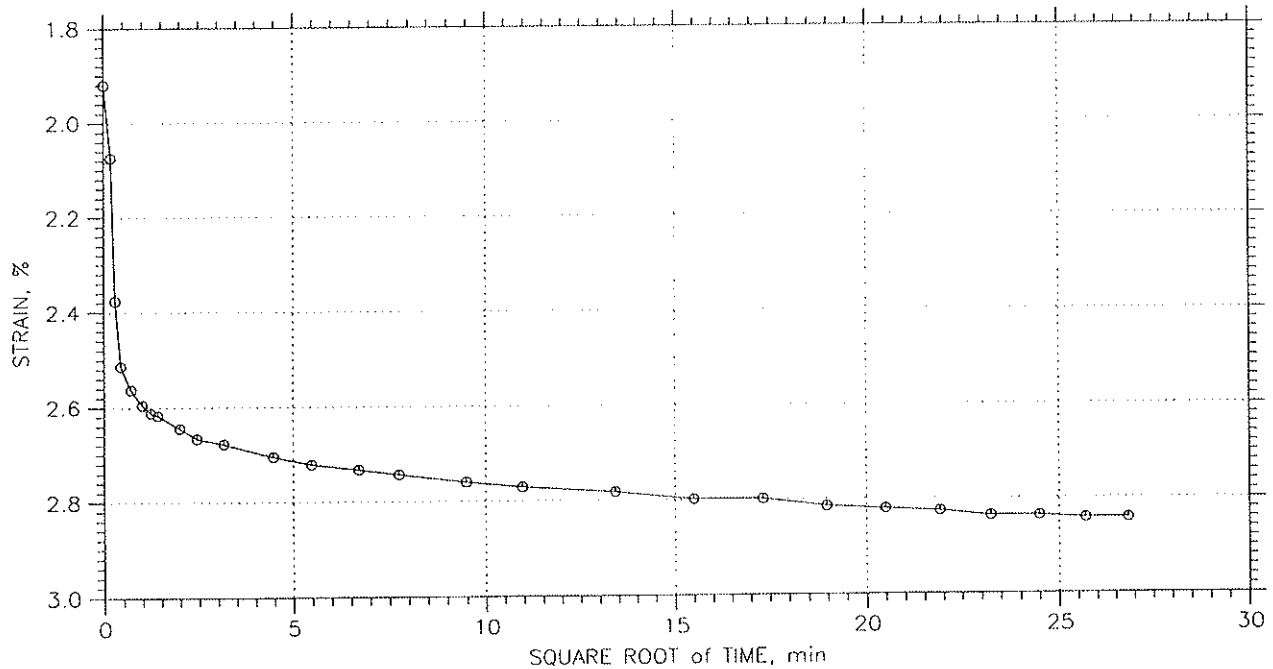
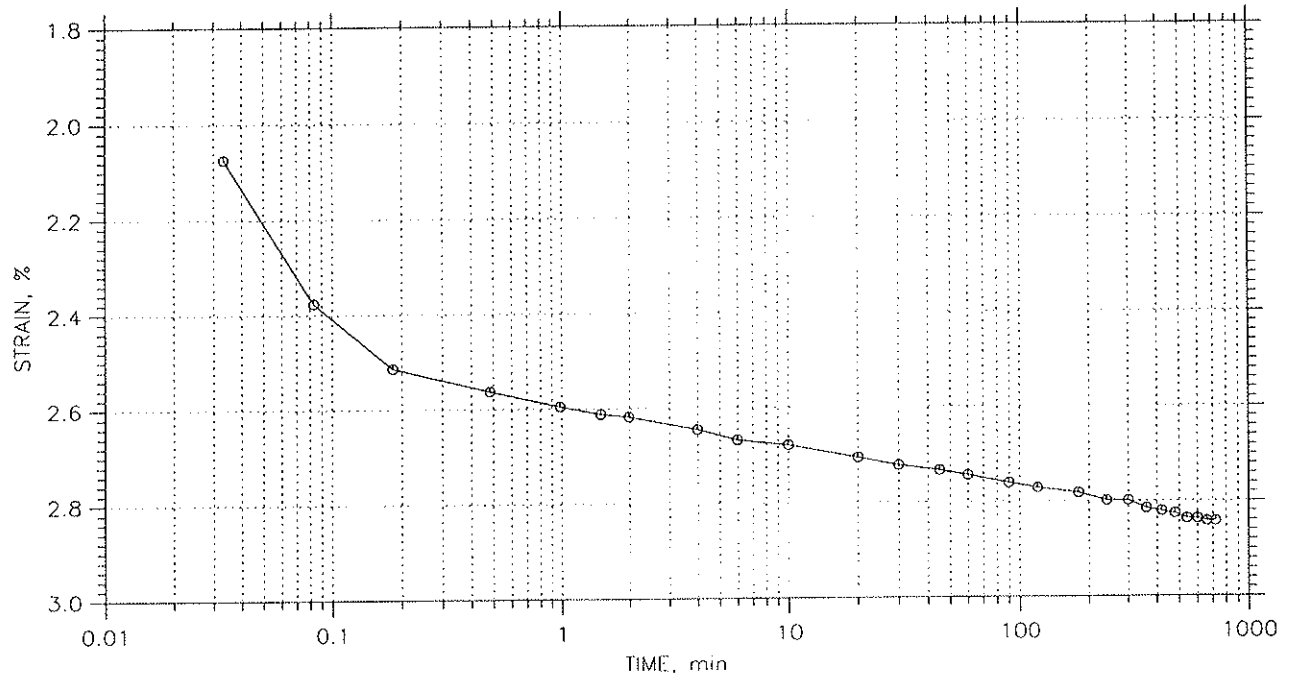
Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A KETSPAN BUSINESS SOLUTION 67A Mountain Square Extension Warren, New Jersey 07059	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-2	Tested By: LL Sr.,	Checked By: LL Sr
	Sample No.: U15	Test Date: 8/17/10	Depth: 52'-54'
	Test No.: 2	Sample Type: undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)		
	Remarks: See Undisturbed Log for details.		

CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 2 of 10

Stress: 0.5 tsf



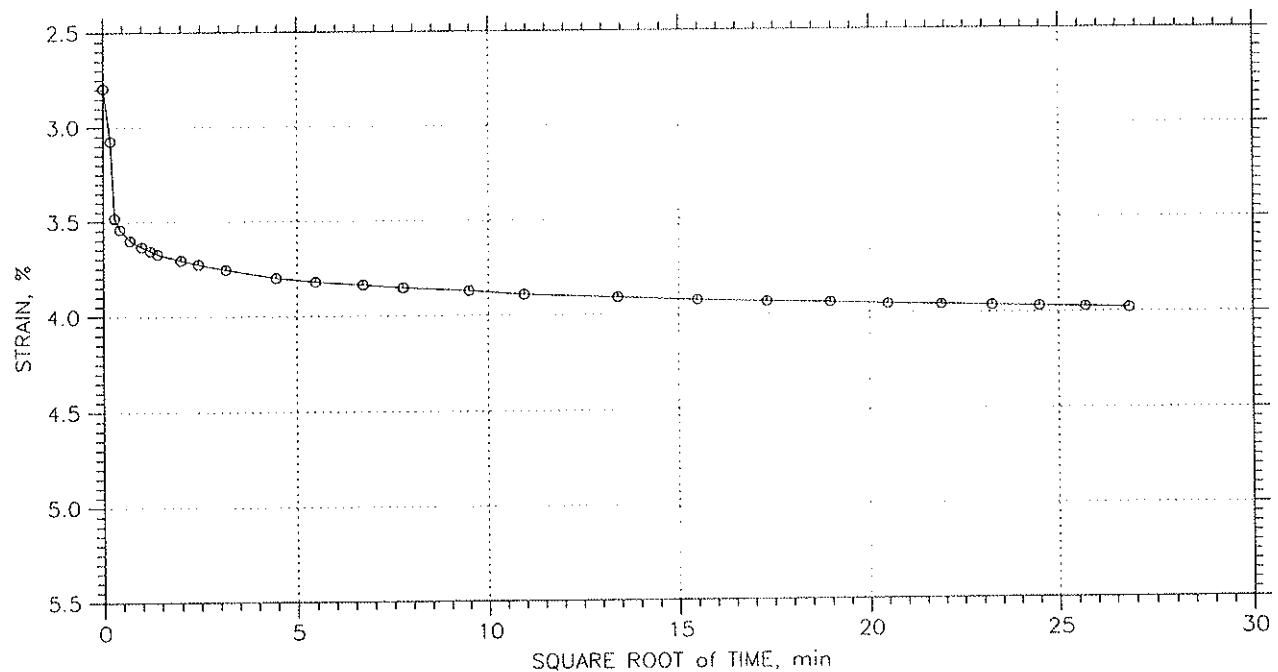
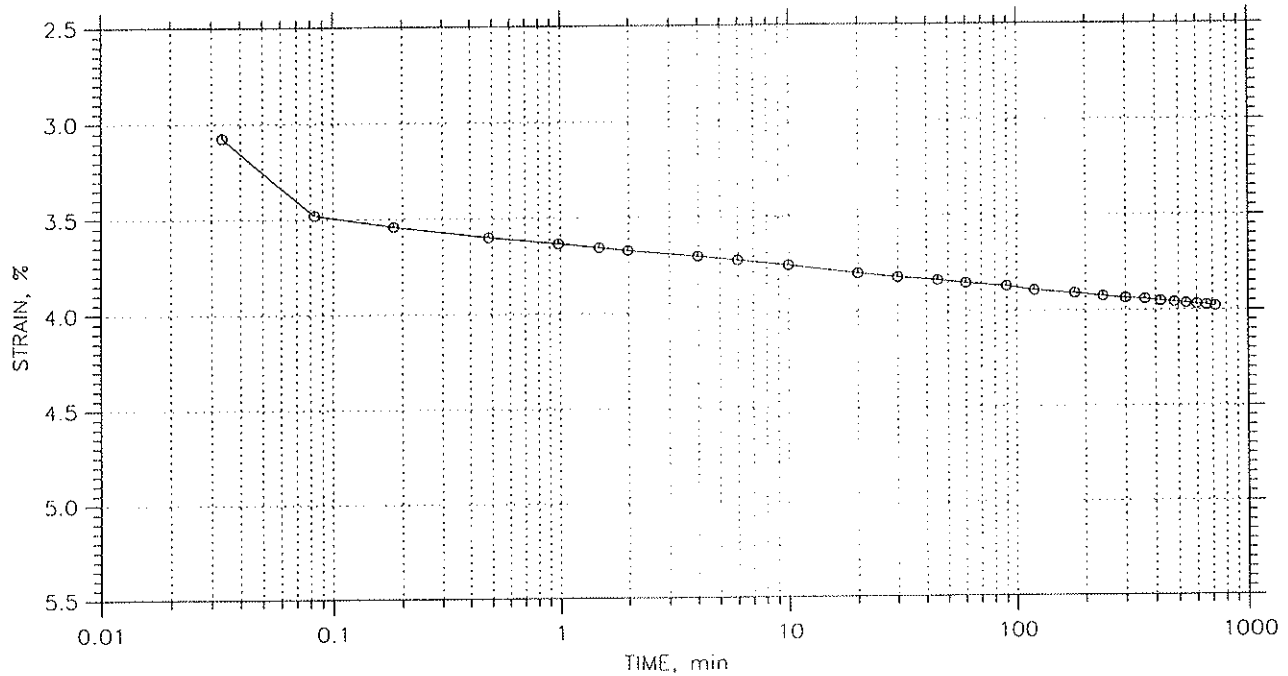
Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A KETSPAN BUSINESS SOLUTION 674 Mountain Boulevard Extension Warren, New Jersey 07059	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-2	Tested By: LL Sr.,	Checked By: LL Sr
	Sample No.: U15	Test Date: 8/17/10	Depth: 52'-54'
	Test No.: 2	Sample Type: undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)		
Remarks: See Undisturbed Log for details.			

CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 3 of 10

Stress: 1. tsf



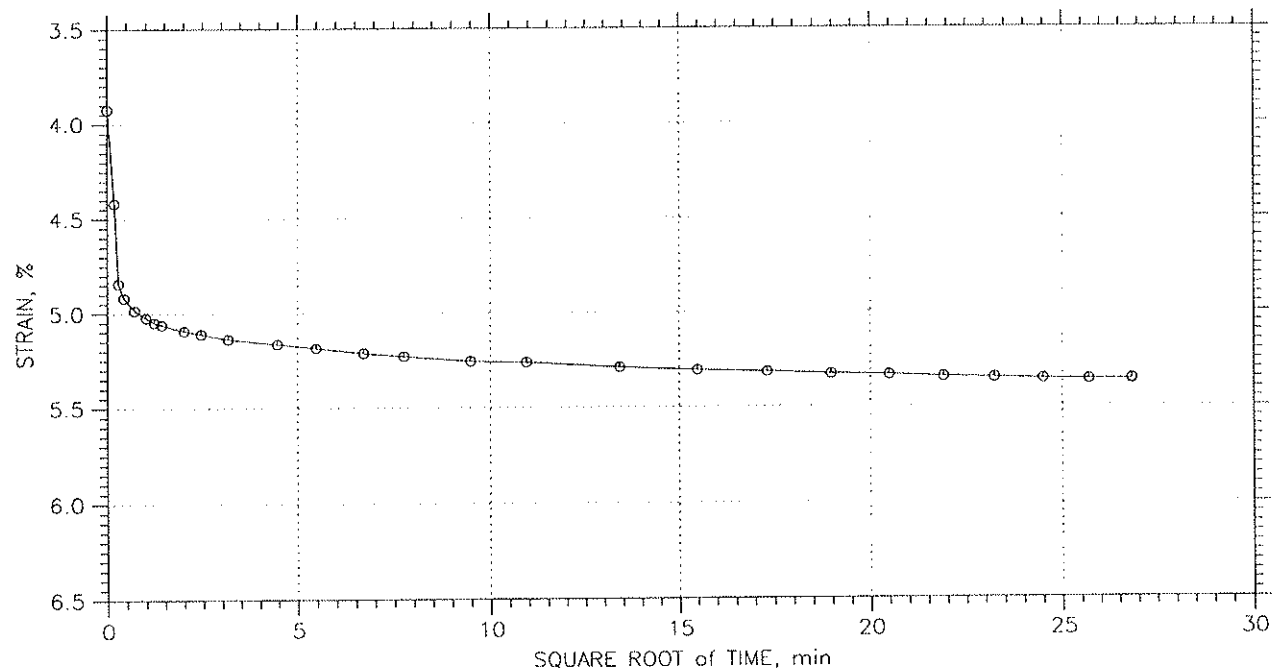
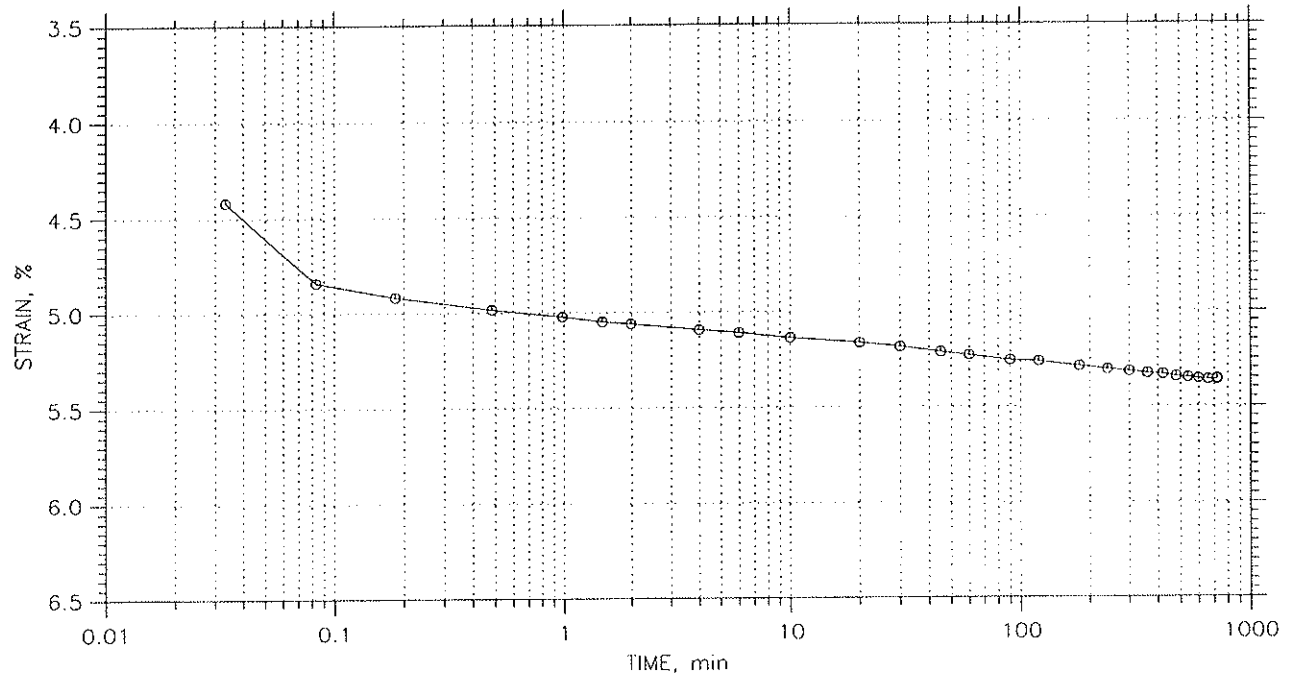
Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A KETSPAN BUSINESS SOLUTION 67A Mountain Boulevard Extension Wana, New Jersey 07058	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-2	Tested By: LL Sr.,	Checked By: LL Sr
	Sample No.: U15	Test Date: 8/17/10	Depth: 52'-54'
	Test No.: 2	Sample Type: undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)		
Remarks: See Undisturbed Log for details.			

CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 4 of 10

Stress: 2. tsf



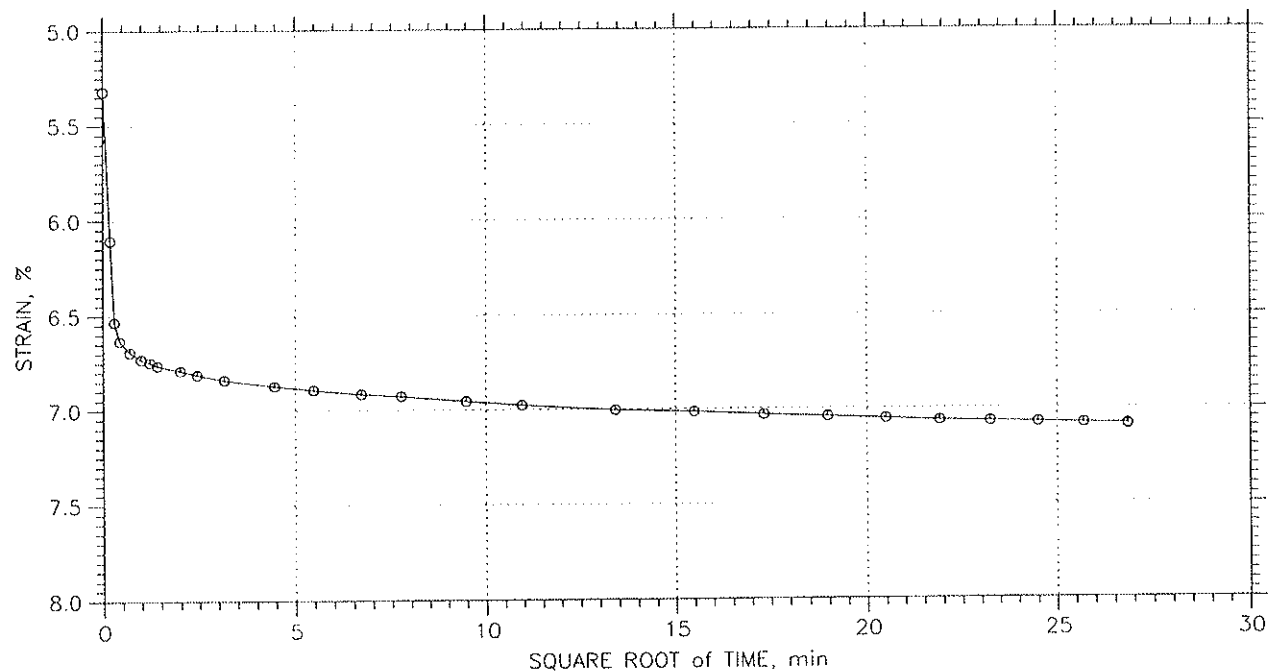
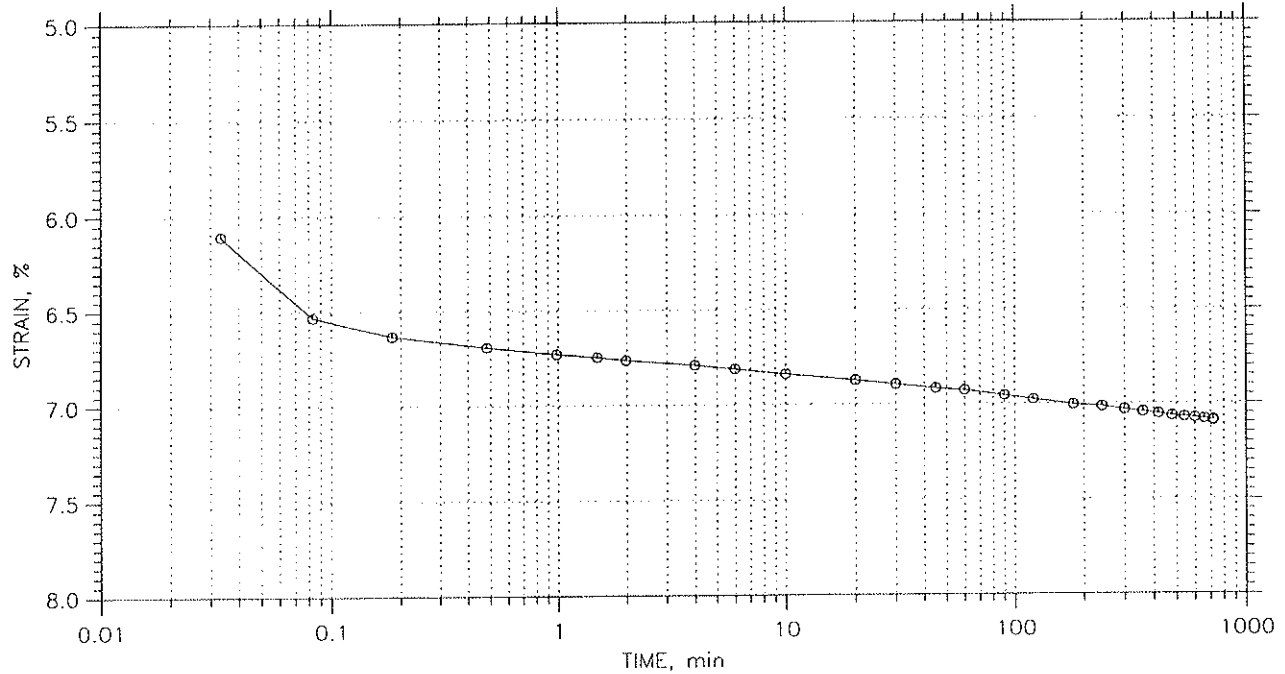
Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A KETSPAN BUSINESS SOLUTION 674 Mountain Boulevard Extension Warren, New Jersey 07059	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-2	Tested By: LL Sr.,	Checked By: LL Sr
	Sample No.: U15	Test Date: 8/17/10	Depth: 52'-54'
	Test No.: 2	Sample Type: undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)		
	Remarks: See Undisturbed Log for details.		

CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 5 of 10

Stress: 4. tsf



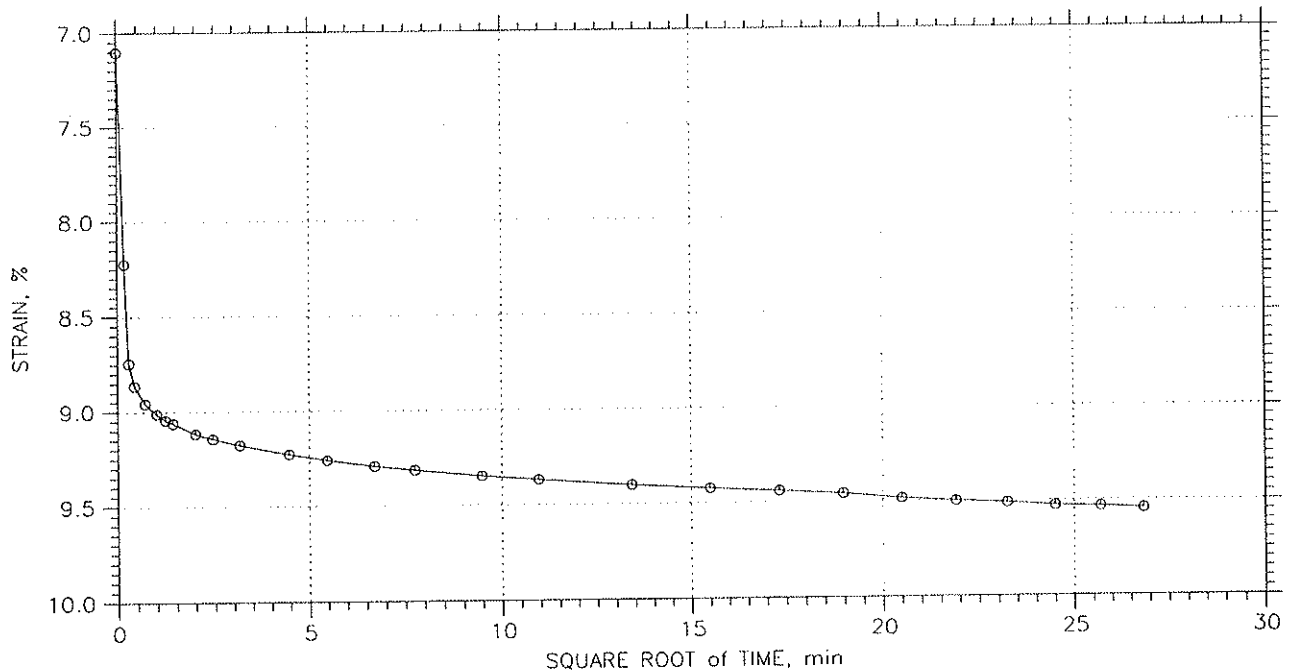
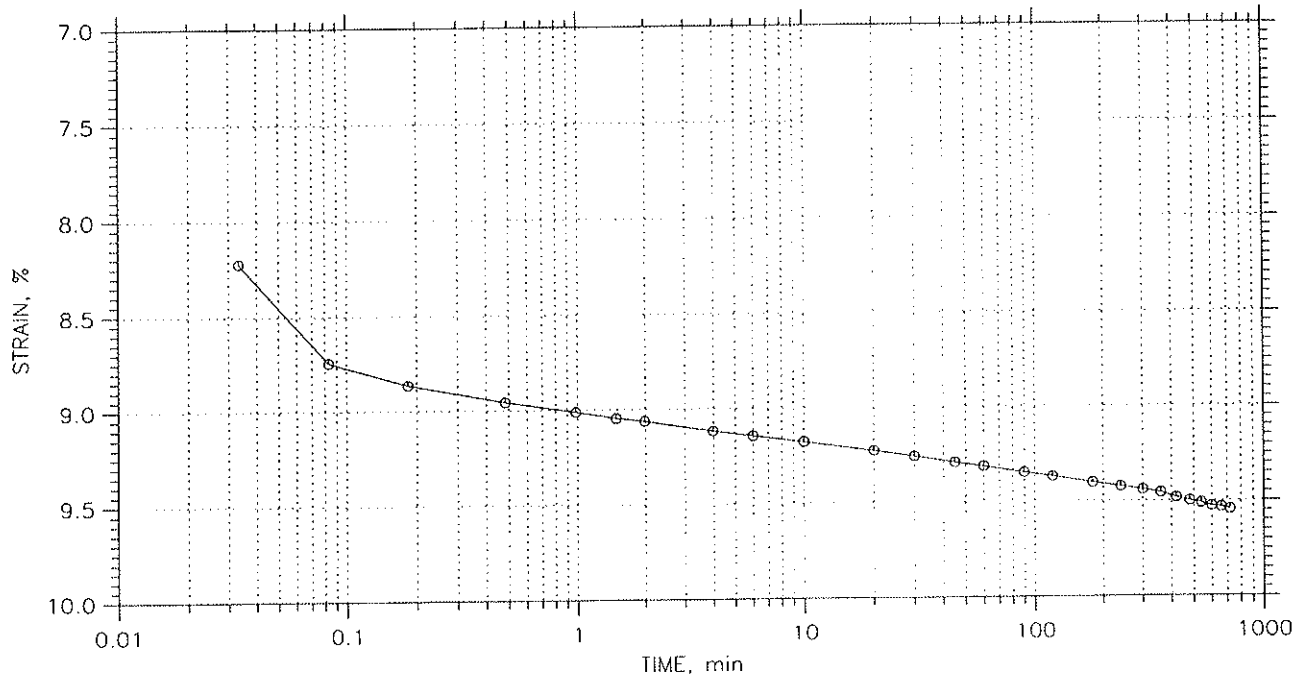
Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A KETSPAN BUSINESS SOLUTION 67A Mountain Boulevard, Suite 200 Worcester, New Jersey 07093	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-2	Tested By: LL Sr.	Checked By: LL Sr
	Sample No.: U15	Test Date: 8/17/10	Depth: 52'-54'
	Test No.: 2	Sample Type: undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)		
	Remarks: See Undisturbed Log for details.		

CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 6 of 10

Stress: 8. tsf



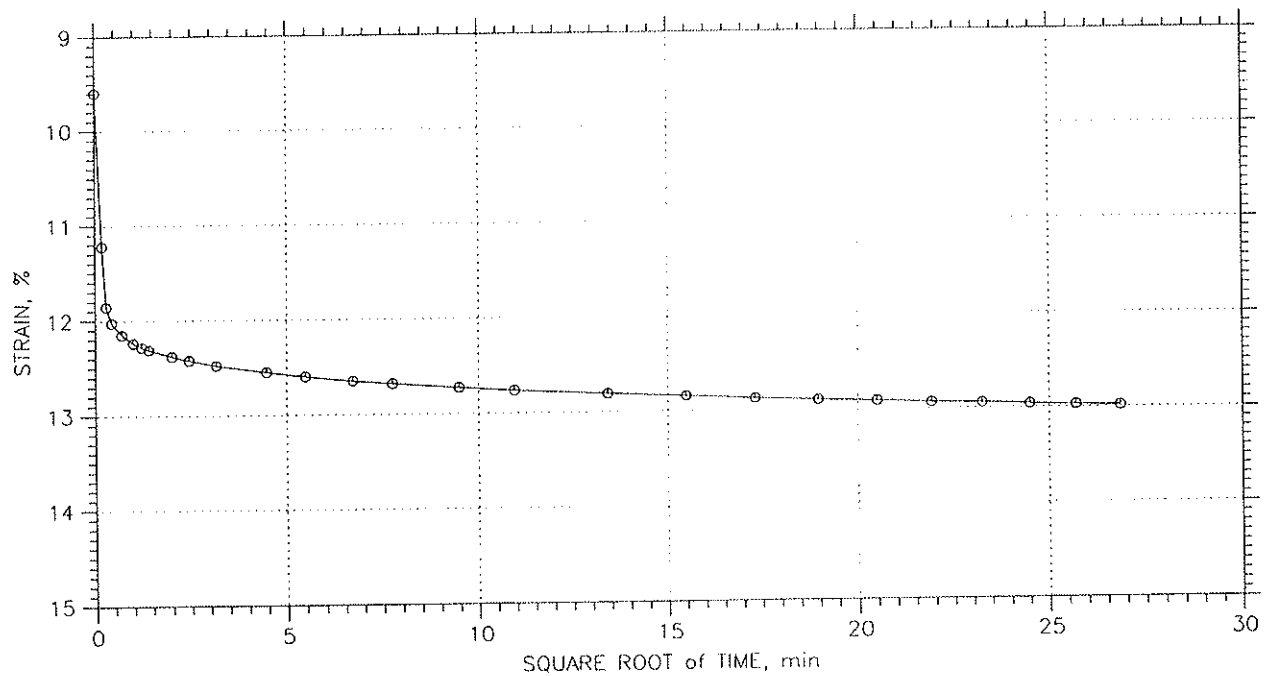
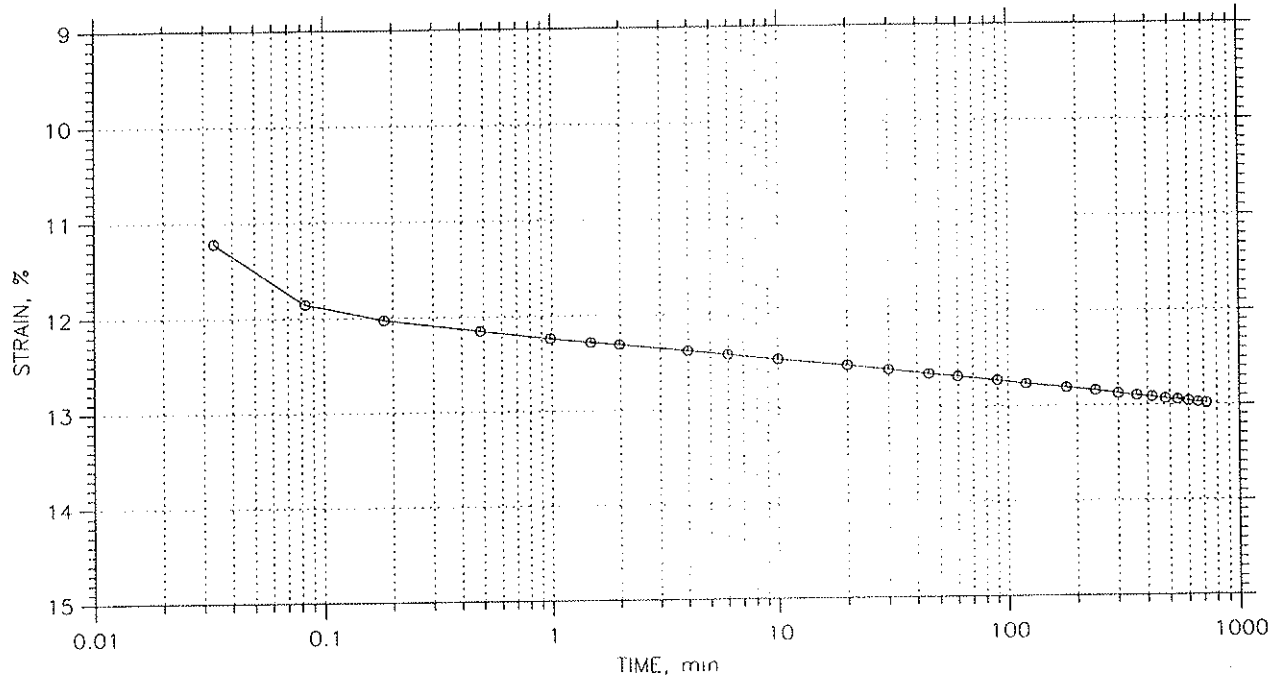
Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A KETSPAN BUSINESS SOLUTION 63A Mountain Boulevard Edison New Jersey 07039	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-2	Tested By: LL Sr.,	Checked By: LL Sr
	Sample No.: U15	Test Date: 8/17/10	Depth: 52'-54'
	Test No.: 2	Sample Type: undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)		
	Remarks: See Undisturbed Log for details.		

CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 7 of 10

Stress: 16. tsf



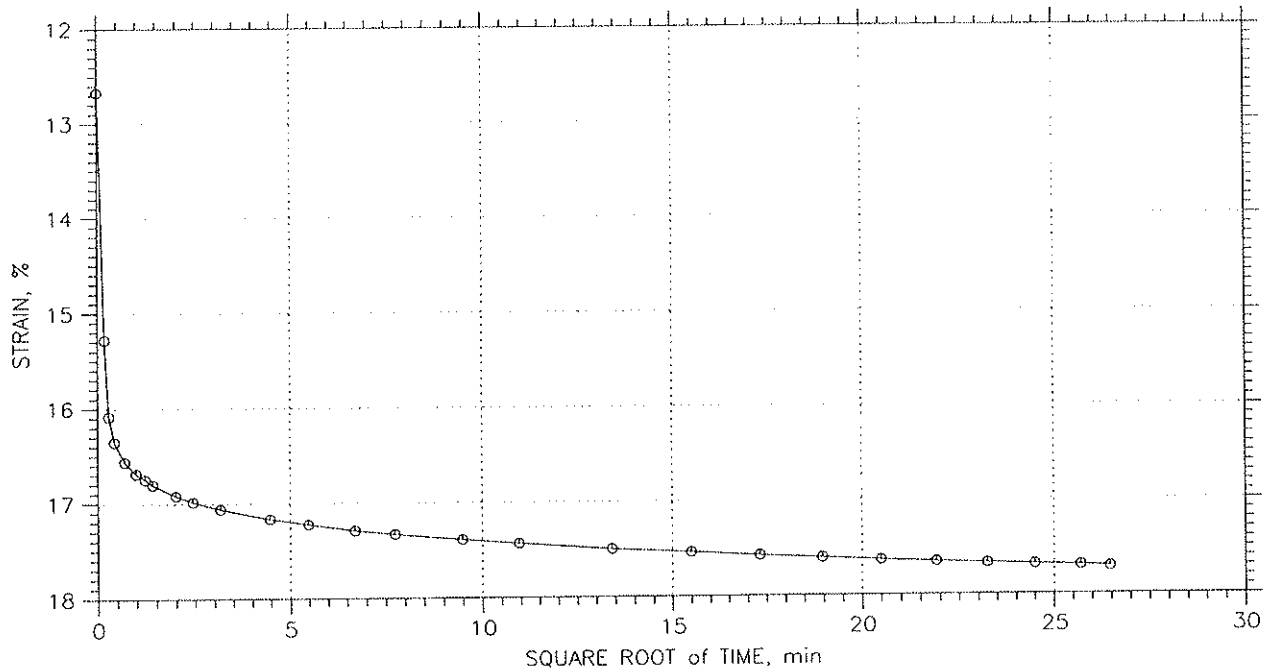
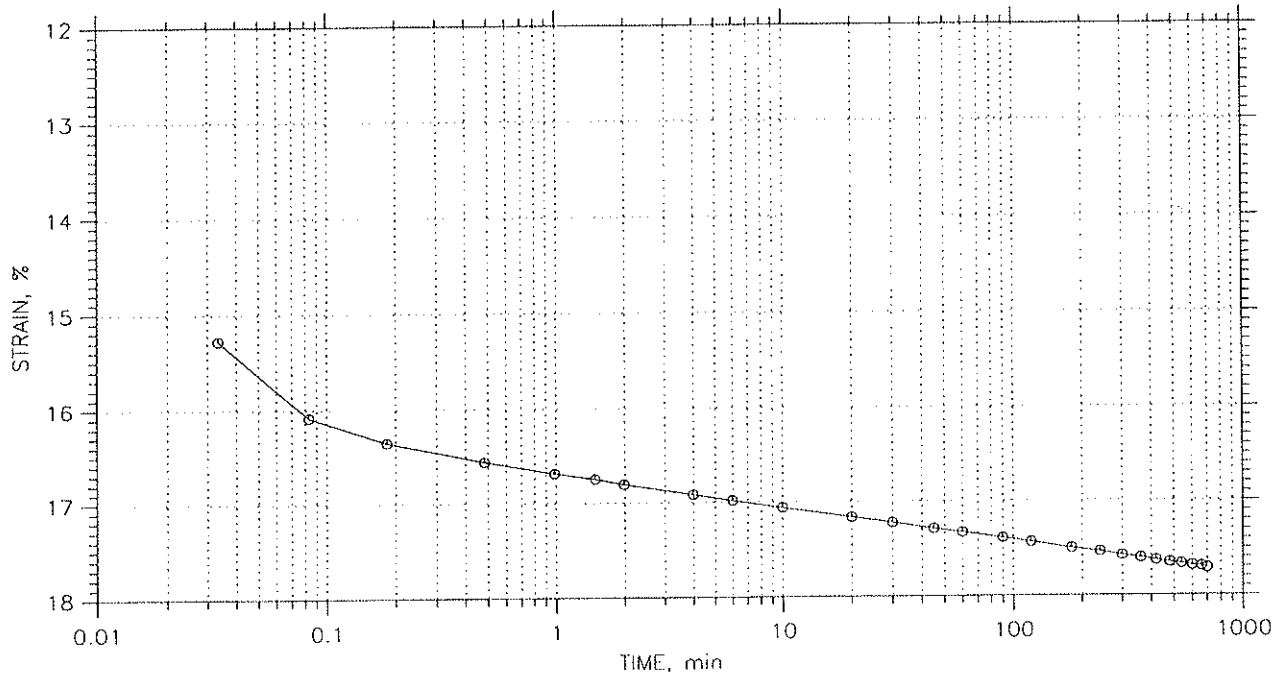
Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A KETSPAN BUSINESS SOLUTION 67A Mountain Boulevard Extension Wenonah, New Jersey 07099	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-2	Tested By: LL Sr.,	Checked By: LL Sr
	Sample No.: U15	Test Date: 8/17/10	Depth: 52'-54'
	Test No.: 2	Sample Type: undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)		
Remarks: See Undisturbed Log for details.			

CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 8 of 10

Stress: 32. tsf



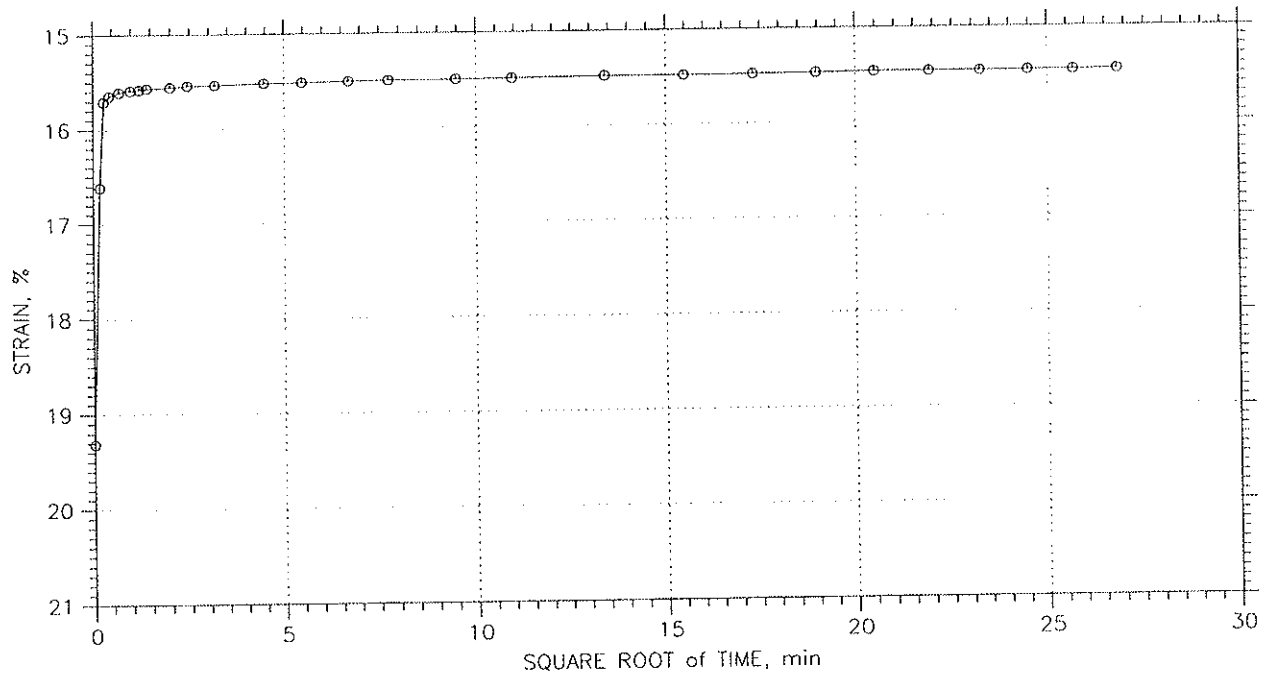
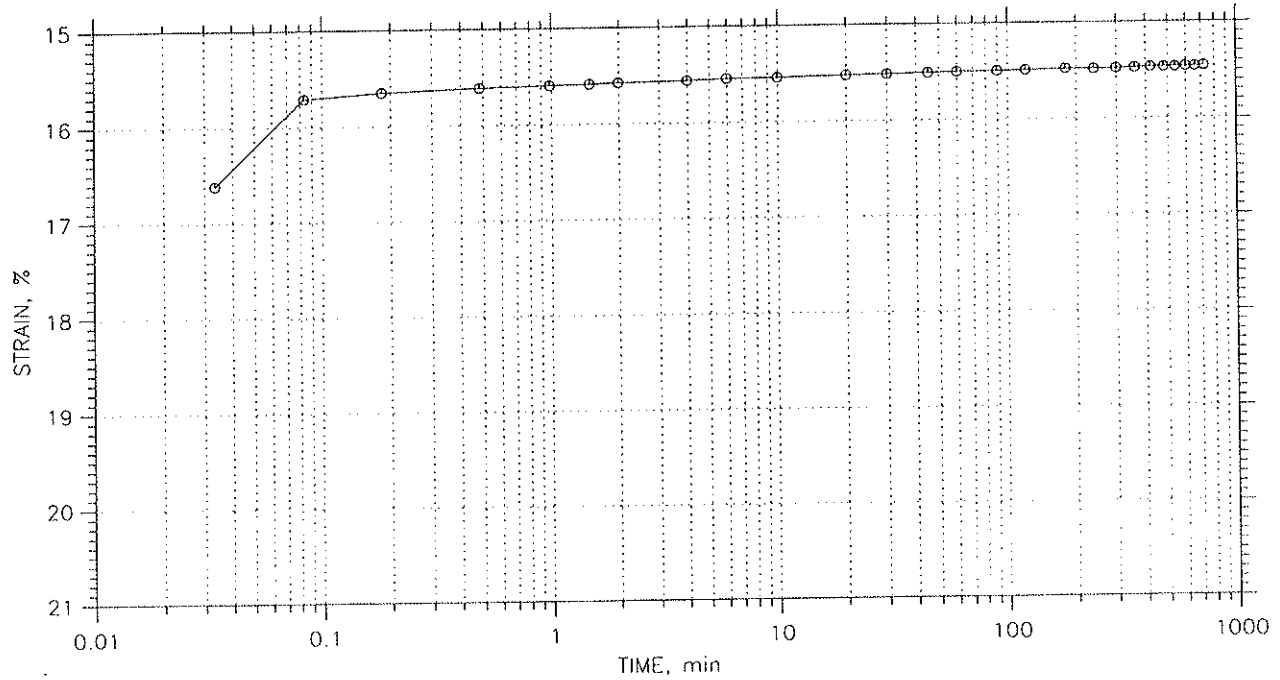
Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A KETSPAN BUSINESS SOLUTION 67A Mountain Boulevard Extension Riverside, New Jersey 07059	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-2	Tested By: LL Sr.,	Checked By: LL Sr
	Sample No.: U15	Test Date: 8/17/10	Depth: 52'-54'
	Test No.: 2	Sample Type: undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)		
Remarks: See Undisturbed Log for details.			

CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 9 of 10

Stress: 2. tsf



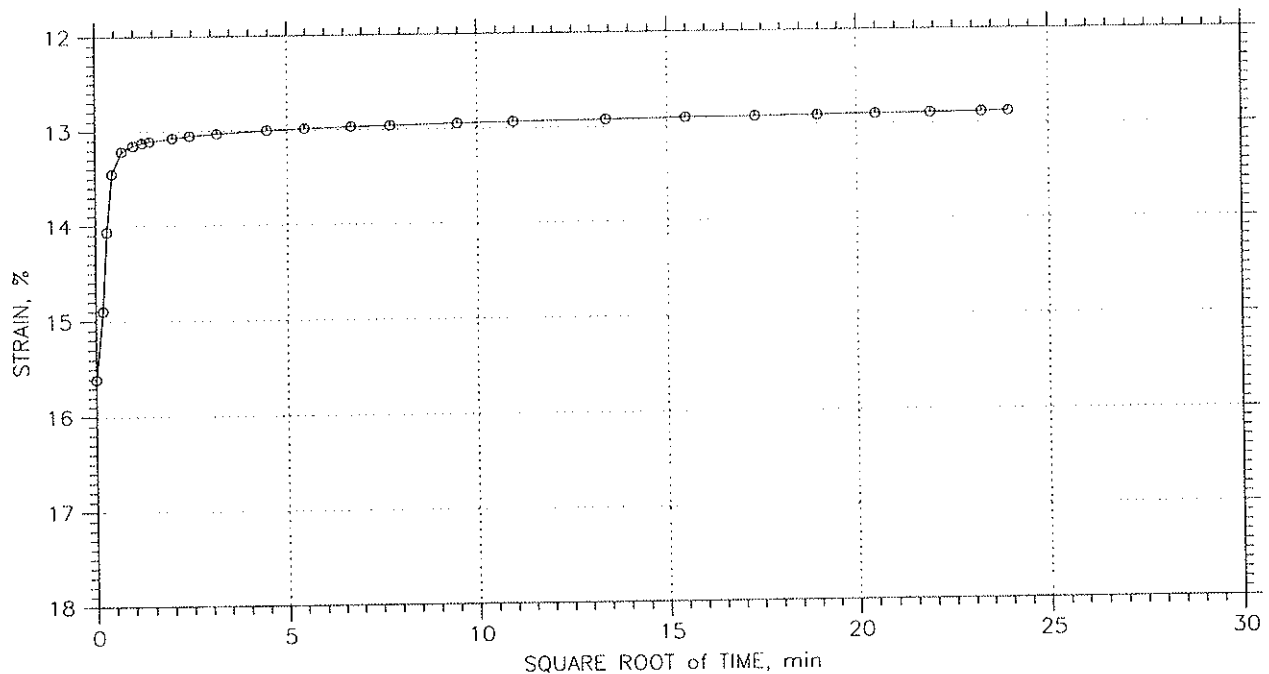
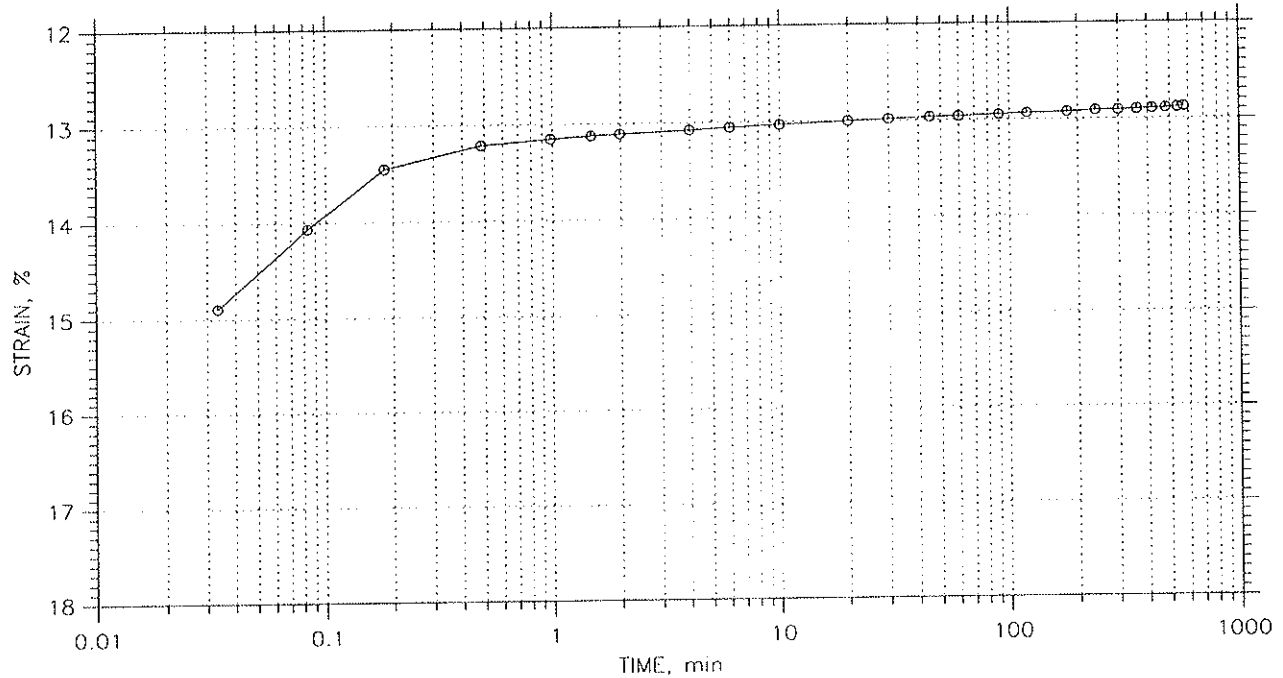
Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A KEYSPAN BUSINESS SOLUTION 67A Mountain School Road Wenonah, New Jersey 07098	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-2	Tested By: LL Sr.,	Checked By: LL Sr.
	Sample No.: U15	Test Date: 8/17/10	Depth: 52'-54'
	Test No.: 2	Sample Type: undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)		
	Remarks: See Undisturbed Log for details.		

CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 10 of 10

Stress: 0.25 tsf



Paulus, Sokolowski & Sartor, LLC consulting engineers and environmental planners A KEYSpan BUSINESS SOLUTION GPA Mountain Boulevard Extension Wormen, New Jersey 07059	Project: A&D Levee	Location: Ansonia, Conn.	Project No.: 40190001020
	Boring No.: PSS-2	Tested By: LL Sr.,	Checked By: LL Sr
	Sample No.: U15	Test Date: 8/17/10	Depth: 52'-54'
	Test No.: 2	Sample Type: undisturbed	Elevation: ---
	Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)		
	Remarks: See Undisturbed Log for details.		

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-2
Sample No.: U15
Test No.: 2

Location: Ansonia, Conn.
Tested By: LL Sr.,
Test Date: 8/17/10
Sample Type: undisturbed

Project No.: 40190001020
Checked By: LL Sr
Depth: 52'-54'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)
Remarks: See Undisturbed Log for details.

Estimated Specific Gravity: 2.69
Initial Void Ratio: 0.97
Final Void Ratio: 0.72

Liquid Limit: NP
Plastic Limit: NP
Plasticity Index: NP

Initial Height: 1.00 in
Specimen Diameter: 2.50 in

Container ID	Before Consolidation		After Consolidation	
	Trimnings	Specimen+Ring	Specimen+Ring	Trimnings
	B	RING	ring	105
Wt. Container + Wet Soil, gm	121.06	687.46	677.51	150.01
Wt. Container + Dry Soil, gm	97.72	648.21	648.21	120.71
Wt. Container, gm	32.28	538.5	538.5	11
Wt. Dry Soil, gm	65.44	109.71	109.71	109.71
Water Content, %	35.67	35.78	26.71	26.71
Void Ratio	---	0.97	0.72	---
Degree of Saturation, %	---	98.98	100.02	---
Dry Unit Weight, pcf	---	85.144	97.731	---

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-2
Sample No.: 015
Test No.: 2

Location: Ansonia, Conn.
Tested By: LL Sr.,
Test Date: 8/17/10
Sample Type: undisturbed

Project No.: 40190001020
Checked By: LL Sr
Depth: 52'-54'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)
Remarks: See Undisturbed Log for details.

	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting		Coefficient of Consolidation		
					Sq.Rt. min	Log min	Sq.Rt. ft^2/day	Log ft^2/day	Ave. ft^2/day
1	0.25	0.01992	0.933	1.99	0.1	0.0	3.86e+000	0.00e+000	3.86e+000
2	0.5	0.02843	0.916	2.84	0.2	0.1	3.05e+000	6.22e+000	4.09e+000
3	1	0.0398	0.894	3.98	0.2	0.1	2.58e+000	7.80e+000	3.87e+000
4	2	0.05357	0.867	5.36	0.1	0.1	6.56e+000	8.43e+000	7.38e+000
5	4	0.07093	0.832	7.09	0.0	0.0	1.35e+001	0.00e+000	1.35e+001
6	8	0.09545	0.784	9.55	0.0	0.0	1.40e+001	9.75e+000	1.15e+001
7	16	0.1299	0.716	12.99	0.1	0.0	5.52e+000	9.89e+000	7.09e+000
8	32	0.1771	0.623	17.71	0.1	0.0	4.90e+000	1.03e+001	6.65e+000
9	2	0.1546	0.667	15.46	0.0	0.0	2.48e+001	0.00e+000	2.48e+001
10	0.25	0.1288	0.718	12.88	0.1	0.0	4.49e+000	0.00e+000	4.49e+000

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-2
Sample No.: U15
Test No.: 2

Location: Ansonia, Conn.
Tested By: LL Sr.,
Test Date: 8/17/10
Sample Type: undisturbed

Project No.: 40190001020
Checked By: LL Sr
Depth: 52'-54'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)
Remarks: See Undisturbed Log for details.

Constant Load Step: 1 of 10
Applied Stress: 0.25 tsf

	Elapsed Time min	Sq.Rt. of Time min	Stress tsf	Displacement in	Strain %	Void Ratio
1	0.00	0.00	0.0137	-0.0007666	-0.08	0.974
2	0.03	0.18	0.0294	0.001099	0.11	0.970
3	0.08	0.29	0.0705	0.005435	0.54	0.962
4	0.18	0.43	0.235	0.01663	1.66	0.940
5	0.48	0.70	0.245	0.01762	1.76	0.938
6	0.98	0.99	0.247	0.01784	1.78	0.937
7	1.48	1.22	0.247	0.01806	1.81	0.937
8	1.98	1.41	0.249	0.01822	1.82	0.936
9	3.98	2.00	0.249	0.01844	1.84	0.936
10	5.98	2.45	0.249	0.01861	1.86	0.936
11	9.98	3.16	0.249	0.01877	1.88	0.935
12	19.98	4.47	0.249	0.01899	1.90	0.935
13	29.98	5.48	0.249	0.0191	1.91	0.935
14	44.98	6.71	0.249	0.01921	1.92	0.934
15	59.98	7.74	0.249	0.01932	1.93	0.934
16	89.98	9.49	0.249	0.01938	1.94	0.934
17	119.98	10.95	0.249	0.01949	1.95	0.934
18	179.98	13.42	0.249	0.0196	1.96	0.934
19	239.98	15.49	0.249	0.01965	1.97	0.934
20	299.98	17.32	0.249	0.01971	1.97	0.933
21	359.98	18.97	0.249	0.01976	1.98	0.933
22	419.98	20.49	0.249	0.01982	1.98	0.933
23	479.98	21.91	0.249	0.01982	1.98	0.933
24	539.98	23.24	0.249	0.01982	1.98	0.933
25	599.98	24.49	0.249	0.01987	1.99	0.933
26	659.98	25.69	0.249	0.01992	1.99	0.933
27	719.98	26.83	0.249	0.01992	1.99	0.933
28	720.12	26.84	0.249	0.01992	1.99	0.933

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-2
Sample No.: U15
Test No.: 2

Location: Ansonia, Conn.
Tested By: LL Sr.,
Test Date: 8/17/10
Sample Type: undisturbed

Project No.: 40190001020
Checked By: LL Sr
Depth: 52'-54'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)
Remarks: See Undisturbed Log for details.

Constant Load Step: 2 of 10
Applied Stress: 0.5 tsf

	Elapsed Time min	Sq.Rt. of Time min	Stress tsf	Displacement in	Strain %	Void Ratio
1	0.00	0.00	0.264	0.01921	1.92	0.934
2	0.03	0.18	0.351	0.02074	2.07	0.931
3	0.08	0.29	0.472	0.02376	2.38	0.925
4	0.18	0.43	0.492	0.02513	2.51	0.923
5	0.48	0.70	0.498	0.02563	2.56	0.922
6	0.98	0.99	0.498	0.02596	2.60	0.921
7	1.48	1.22	0.498	0.02612	2.61	0.921
8	1.98	1.41	0.498	0.02618	2.62	0.921
9	3.98	2.00	0.499	0.02645	2.65	0.920
10	5.98	2.45	0.499	0.02667	2.67	0.920
11	9.98	3.16	0.499	0.02678	2.68	0.919
12	19.98	4.47	0.499	0.02705	2.71	0.919
13	29.98	5.48	0.499	0.02722	2.72	0.919
14	44.98	6.71	0.499	0.02733	2.73	0.918
15	59.98	7.74	0.499	0.02744	2.74	0.918
16	89.98	9.49	0.499	0.0276	2.76	0.918
17	119.98	10.95	0.499	0.02771	2.77	0.918
18	179.98	13.42	0.499	0.02782	2.78	0.917
19	239.98	15.49	0.501	0.02799	2.80	0.917
20	299.98	17.32	0.499	0.02799	2.80	0.917
21	359.98	18.97	0.499	0.02815	2.82	0.917
22	419.98	20.49	0.499	0.02821	2.82	0.917
23	479.98	21.91	0.499	0.02826	2.83	0.917
24	539.98	23.24	0.501	0.02837	2.84	0.916
25	599.98	24.49	0.499	0.02837	2.84	0.916
26	659.98	25.69	0.499	0.02843	2.84	0.916
27	719.98	26.83	0.499	0.02843	2.84	0.916
28	720.05	26.83	0.499	0.02843	2.84	0.916

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-2
Sample No.: U15
Test No.: 2

Location: Ansonia, Conn.
Tested By: LL Sr.,
Test Date: 8/17/10
Sample Type: undisturbed

Project No.: 40190001020
Checked By: LL Sr
Depth: 52'-54'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)
Remarks: See Undisturbed Log for details.

Constant Load Step: 3 of 10
Applied Stress: 1 tsf

	Elapsed Time min	Sq.Rt. of Time min	Stress tsf	Displacement in	Strain %	Void Ratio
1	0.00	0.00	0.613	0.02795	2.79	0.917
2	0.03	0.18	0.791	0.03075	3.07	0.912
3	0.08	0.29	0.975	0.03481	3.48	0.904
4	0.18	0.43	0.993	0.03541	3.54	0.902
5	0.48	0.70	0.997	0.03601	3.60	0.901
6	0.98	0.99	0.997	0.03634	3.63	0.901
7	1.48	1.22	0.997	0.03656	3.66	0.900
8	1.98	1.41	0.997	0.03673	3.67	0.900
9	3.98	2.00	0.997	0.03706	3.71	0.899
10	5.98	2.45	0.999	0.03728	3.73	0.899
11	9.98	3.16	0.999	0.03755	3.76	0.898
12	19.98	4.47	0.999	0.03799	3.80	0.897
13	29.98	5.48	0.999	0.03821	3.82	0.897
14	44.98	6.71	0.999	0.03837	3.84	0.897
15	59.98	7.74	0.999	0.03854	3.85	0.896
16	89.98	9.49	0.999	0.0387	3.87	0.896
17	119.98	10.95	0.999	0.03892	3.89	0.896
18	179.98	13.42	0.999	0.03909	3.91	0.895
19	239.98	15.49	0.999	0.03925	3.93	0.895
20	299.98	17.32	0.999	0.03936	3.94	0.895
21	359.98	18.97	0.999	0.03942	3.94	0.895
22	419.98	20.49	0.999	0.03953	3.95	0.894
23	479.98	21.91	0.999	0.03958	3.96	0.894
24	539.98	23.24	0.999	0.03964	3.96	0.894
25	599.98	24.49	0.999	0.03969	3.97	0.894
26	659.98	25.69	0.999	0.03975	3.97	0.894
27	719.98	26.83	0.999	0.0398	3.98	0.894
28	720.05	26.83	0.997	0.0398	3.98	0.894

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-2
Sample No.: U15
Test No.: 2

Location: Ansonia, Conn.
Tested By: LL Sr.,
Test Date: 8/17/10
Sample Type: undisturbed

Project No.: 40190001020
Checked By: LL Sr
Depth: 52'-54'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)
Remarks: See Undisturbed Log for details.

Constant Load Step: 4 of 10
Applied Stress: 2 tsf

	Elapsed Time min	Sq.Rt. of Time min	Stress tsf	Displacement in	Strain %	Void Ratio
1	0.00	0.00	1.3	0.03924	3.92	0.895
2	0.03	0.18	1.73	0.04418	4.42	0.885
3	0.08	0.29	1.95	0.04841	4.84	0.877
4	0.18	0.43	1.98	0.04918	4.92	0.875
5	0.48	0.70	2	0.04983	4.98	0.874
6	0.98	0.99	2	0.05022	5.02	0.873
7	1.48	1.22	2	0.05049	5.05	0.873
8	1.98	1.41	2	0.0506	5.06	0.873
9	3.98	2.00	2	0.05093	5.09	0.872
10	5.98	2.45	2	0.0511	5.11	0.872
11	9.98	3.16	2	0.05137	5.14	0.871
12	19.98	4.47	2	0.05165	5.16	0.870
13	29.98	5.48	2	0.05187	5.19	0.870
14	44.98	6.71	2	0.05214	5.21	0.869
15	59.98	7.74	2	0.0523	5.23	0.869
16	89.98	9.49	2	0.05258	5.26	0.869
17	119.98	10.95	2	0.05263	5.26	0.869
18	179.98	13.42	2	0.05291	5.29	0.868
19	239.98	15.49	2	0.05307	5.31	0.868
20	299.98	17.32	2	0.05318	5.32	0.867
21	359.98	18.97	2	0.05329	5.33	0.867
22	419.98	20.49	2	0.05335	5.33	0.867
23	479.98	21.91	2	0.05346	5.35	0.867
24	539.98	23.24	2	0.05351	5.35	0.867
25	599.98	24.49	2	0.05357	5.36	0.867
26	659.98	25.69	2	0.05362	5.36	0.867
27	719.98	26.83	2	0.05362	5.36	0.867
28	720.05	26.83	2	0.05357	5.36	0.867

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-2
Sample No.: U15
Test No.: 2

Location: Ansonia, Conn.
Tested By: LL Sr.,
Test Date: 8/17/10
Sample Type: undisturbed

Project No.: 40190001020
Checked By: LL Sr
Depth: 52'-54'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)
Remarks: See Undisturbed Log for details.

Constant Load Step: 5 of 10
Applied Stress: 4 tsf

	Elapsed Time min	Sq.Rt. of Time min	Stress tsf	Displacement in	Strain %	Void Ratio
1	0.00	0.00	2.72	0.0532	5.32	0.867
2	0.03	0.18	3.65	0.06105	6.11	0.852
3	0.08	0.29	3.93	0.06533	6.53	0.843
4	0.18	0.43	3.99	0.06632	6.63	0.842
5	0.48	0.70	3.99	0.06692	6.69	0.840
6	0.98	0.99	4	0.06731	6.73	0.840
7	1.48	1.22	4	0.06747	6.75	0.839
8	1.98	1.41	4	0.06764	6.76	0.839
9	3.98	2.00	4	0.06791	6.79	0.838
10	5.98	2.45	4	0.06813	6.81	0.838
11	9.98	3.16	4	0.06841	6.84	0.837
12	19.98	4.47	4	0.06873	6.87	0.837
13	29.98	5.48	4	0.06895	6.90	0.836
14	44.98	6.71	4	0.06917	6.92	0.836
15	59.98	7.74	4	0.06928	6.93	0.836
16	89.98	9.49	4	0.06956	6.96	0.835
17	119.98	10.95	4	0.06978	6.98	0.835
18	179.98	13.42	4	0.07005	7.01	0.834
19	239.98	15.49	4	0.07016	7.02	0.834
20	299.98	17.32	4	0.07033	7.03	0.834
21	359.98	18.97	4	0.07044	7.04	0.833
22	419.98	20.49	4	0.07055	7.05	0.833
23	479.98	21.91	4	0.07066	7.07	0.833
24	539.98	23.24	4	0.07071	7.07	0.833
25	599.98	24.49	4	0.07077	7.08	0.833
26	659.98	25.69	4	0.07082	7.08	0.833
27	719.98	26.83	4	0.07088	7.09	0.833
28	720.05	26.83	4	0.07093	7.09	0.832

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-2
Sample No.: U15
Test No.: 2

Location: Ansonia, Conn.
Tested By: LL Sr.,
Test Date: 8/17/10
Sample Type: undisturbed

Project No.: 40190001020
Checked By: LL Sr
Depth: 52'-54'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)
Remarks: See Undisturbed Log for details.

Constant Load Step: 6 of 10
Applied Stress: 8 tsf

	Elapsed Time min	Sq.Rt. of Time min	Stress tsf	Displacement in	Strain %	Void Ratio
1	0.00	0.00	5.77	0.07103	7.10	0.832
2	0.03	0.18	7.42	0.08223	8.22	0.810
3	0.08	0.29	7.9	0.08744	8.74	0.800
4	0.18	0.43	7.99	0.08865	8.86	0.797
5	0.48	0.70	8	0.08958	8.96	0.796
6	0.98	0.99	8	0.09013	9.01	0.795
7	1.48	1.22	8	0.09046	9.05	0.794
8	1.98	1.41	8	0.09062	9.06	0.794
9	3.98	2.00	8	0.09117	9.12	0.792
10	5.98	2.45	8	0.09145	9.14	0.792
11	9.98	3.16	8	0.09178	9.18	0.791
12	19.98	4.47	8	0.09227	9.23	0.790
13	29.98	5.48	8	0.0926	9.26	0.790
14	44.98	6.71	8	0.09293	9.29	0.789
15	59.98	7.74	8	0.09315	9.31	0.789
16	89.98	9.49	8	0.09348	9.35	0.788
17	119.98	10.95	8	0.0937	9.37	0.788
18	179.98	13.42	8	0.09403	9.40	0.787
19	239.98	15.49	8	0.09425	9.42	0.786
20	299.98	17.32	8	0.09441	9.44	0.786
21	359.98	18.97	8	0.09458	9.46	0.786
22	419.98	20.49	8	0.09485	9.48	0.785
23	479.98	21.91	8	0.09501	9.50	0.785
24	539.98	23.24	8	0.09512	9.51	0.785
25	599.98	24.49	8	0.09529	9.53	0.784
26	659.98	25.69	8	0.09534	9.53	0.784
27	719.98	26.83	8	0.09545	9.55	0.784
28	720.05	26.83	8	0.09545	9.55	0.784

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-2
Sample No.: U15
Test No.: 2

Location: Ansonia, Conn.
Tested By: LL Sr.,
Test Date: 8/17/10
Sample Type: undisturbed

Project No.: 40190001020
Checked By: LL Sr
Depth: 52'-54'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)
Remarks: See Undisturbed Log for details.

Constant Load Step: 7 of 10
Applied Stress: 16 tsf

	Elapsed Time min	Sq.Rt. of Time min	Stress tsf	Displacement in	Strain %	Void Ratio
1	0.00	0.00	12	0.09599	9.60	0.783
2	0.03	0.18	15.1	0.1122	11.22	0.751
3	0.08	0.29	15.9	0.1185	11.85	0.739
4	0.18	0.43	16	0.1202	12.02	0.735
5	0.48	0.70	16	0.1215	12.15	0.733
6	0.98	0.99	16	0.1224	12.24	0.731
7	1.48	1.22	16	0.1228	12.28	0.730
8	1.98	1.41	16	0.1231	12.31	0.730
9	3.98	2.00	16	0.1238	12.38	0.728
10	5.98	2.45	16	0.1243	12.43	0.727
11	9.98	3.16	16	0.1248	12.48	0.726
12	19.98	4.47	16	0.1255	12.55	0.725
13	29.98	5.48	16	0.126	12.60	0.724
14	44.98	6.71	16	0.1265	12.65	0.723
15	59.98	7.74	16	0.1268	12.68	0.722
16	89.98	9.49	16	0.1273	12.73	0.721
17	119.98	10.95	16	0.1277	12.77	0.721
18	179.98	13.42	16	0.1281	12.81	0.720
19	239.98	15.49	16	0.1284	12.84	0.719
20	299.98	17.32	16	0.1288	12.88	0.718
21	359.98	18.97	16	0.129	12.90	0.718
22	419.98	20.49	16	0.1291	12.91	0.718
23	479.98	21.91	16	0.1294	12.94	0.717
24	539.98	23.24	16	0.1295	12.95	0.717
25	599.98	24.49	16	0.1296	12.96	0.717
26	659.98	25.69	16	0.1297	12.97	0.716
27	719.98	26.83	16	0.1299	12.99	0.716
28	720.06	26.83	16	0.1299	12.99	0.716

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-2
Sample No.: U15
Test No.: 2

Location: Ansonia, Conn.
Tested By: LL Sr.,
Test Date: 8/17/10
Sample Type: undisturbed

Project No.: 40190001020
Checked By: LL Sr
Depth: 52'-54'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)
Remarks: See Undisturbed Log for details.

Constant Load Step: 8 of 10
Applied Stress: 32 tsf

	Elapsed Time min	Sq.Rt. of Time min	Stress tsf	Displacement in	Strain %	Void Ratio
1	0.00	0.00	24.3	0.1267	12.67	0.722
2	0.03	0.18	30.7	0.1528	15.28	0.671
3	0.08	0.29	31.8	0.1608	16.08	0.655
4	0.18	0.43	31.9	0.1635	16.35	0.650
5	0.48	0.70	32	0.1656	16.56	0.646
6	0.98	0.99	32	0.1669	16.69	0.643
7	1.48	1.22	32	0.1675	16.75	0.642
8	1.98	1.41	32	0.168	16.80	0.641
9	3.98	2.00	32	0.1692	16.92	0.639
10	5.98	2.45	32	0.1698	16.98	0.637
11	9.98	3.16	32	0.1706	17.06	0.636
12	19.98	4.47	32	0.1717	17.17	0.634
13	29.98	5.48	32	0.1723	17.23	0.633
14	44.98	6.71	32	0.1729	17.29	0.631
15	59.98	7.74	32	0.1733	17.33	0.631
16	89.98	9.49	32	0.1739	17.39	0.629
17	119.98	10.95	32	0.1743	17.43	0.628
18	179.98	13.42	32	0.175	17.50	0.627
19	239.98	15.49	32	0.1754	17.54	0.626
20	299.98	17.32	32	0.1758	17.58	0.626
21	359.98	18.97	32	0.1761	17.61	0.625
22	419.98	20.49	32	0.1763	17.63	0.625
23	479.98	21.91	32	0.1765	17.65	0.624
24	539.98	23.24	32	0.1767	17.67	0.624
25	599.98	24.49	32	0.1769	17.69	0.623
26	659.98	25.69	32	0.177	17.70	0.623
27	700.26	26.46	32	0.1771	17.71	0.623

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring NO.: PSS-2
Sample No.: U15
Test No.: 2

Location: Ansonia, Conn.
Tested By: LL Sr.,
Test Date: 8/17/10
Sample Type: undisturbed

Project No.: 40190001020
Checked By: LL Sr
Depth: 52'-54'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)
Remarks: See Undisturbed Log for details.

Constant Load Step: 9 of 10
Applied Stress: 2 tsf

	Elapsed Time min	Sq.Rt. of Time min	Stress tsf	Displacement in	Strain %	Void Ratio
1	0.00	0.00	17.3	0.1931	19.31	0.591
2	0.03	0.18	3.49	0.1661	16.61	0.645
3	0.08	0.29	2.06	0.1571	15.71	0.663
4	0.18	0.43	2.01	0.1565	15.65	0.664
5	0.48	0.70	2	0.1561	15.61	0.664
6	0.98	0.99	2	0.1559	15.59	0.665
7	1.48	1.22	2	0.1558	15.58	0.665
8	1.98	1.41	2	0.1557	15.57	0.665
9	3.98	2.00	2	0.1556	15.56	0.665
10	5.98	2.45	2	0.1554	15.54	0.666
11	9.98	3.16	2	0.1554	15.54	0.666
12	19.98	4.47	2	0.1552	15.52	0.666
13	29.98	5.48	2	0.1552	15.52	0.666
14	44.98	6.71	2	0.1551	15.51	0.667
15	59.98	7.74	2	0.155	15.50	0.667
16	89.98	9.49	2	0.1549	15.49	0.667
17	119.98	10.95	2	0.1549	15.49	0.667
18	179.98	13.42	2	0.1548	15.48	0.667
19	239.98	15.49	2	0.1548	15.48	0.667
20	299.98	17.32	2	0.1548	15.48	0.667
21	359.98	18.97	2	0.1547	15.47	0.667
22	419.98	20.49	2	0.1547	15.47	0.667
23	479.98	21.91	2	0.1547	15.47	0.667
24	539.98	23.24	2	0.1547	15.47	0.667
25	599.98	24.49	2	0.1546	15.46	0.667
26	659.98	25.69	2	0.1546	15.46	0.667
27	719.98	26.83	2	0.1546	15.46	0.667
28	720.07	26.83	2	0.1546	15.46	0.667

CONSOLIDATION TEST DATA

Project: A&D Levee
Boring No.: PSS-2
Sample No.: U15
Test No.: 2

Location: Ansonia, Conn.
Tested By: LL Sr.,
Test Date: 8/17/10
Sample Type: undisturbed

Project No.: 40190001020
Checked By: LL Sr
Depth: 52'-54'
Elevation: ---

Soil Description: Thinly layered gray silt & clayey silt (ML) & f-sand, and silt (SM)
Remarks: See Undisturbed Log for details.

Constant Load Step: 10 of 10
Applied Stress: 0.25 tsf

	Elapsed Time min	Sq.Rt. of Time min	Stress tsf	Displacement in	Strain %	Void Ratio
1	0.00	0.00	1.31	0.1561	15.61	0.664
2	0.03	0.18	0.689	0.1489	14.89	0.679
3	0.08	0.29	0.358	0.1407	14.07	0.695
4	0.18	0.43	0.286	0.1345	13.45	0.707
5	0.48	0.70	0.257	0.1321	13.21	0.712
6	0.98	0.99	0.253	0.1315	13.15	0.713
7	1.48	1.22	0.251	0.1313	13.13	0.713
8	1.98	1.41	0.251	0.1311	13.11	0.714
9	3.98	2.00	0.249	0.1308	13.08	0.714
10	5.98	2.45	0.249	0.1306	13.06	0.715
11	9.98	3.16	0.251	0.1303	13.03	0.715
12	19.98	4.47	0.249	0.13	13.00	0.716
13	29.98	5.48	0.249	0.1298	12.98	0.716
14	44.98	6.71	0.249	0.1297	12.97	0.717
15	59.98	7.74	0.249	0.1296	12.96	0.717
16	89.98	9.49	0.249	0.1295	12.95	0.717
17	119.98	10.95	0.249	0.1293	12.93	0.717
18	179.98	13.42	0.249	0.1292	12.92	0.717
19	239.98	15.49	0.249	0.1291	12.91	0.718
20	299.98	17.32	0.251	0.1291	12.91	0.718
21	359.98	18.97	0.249	0.129	12.90	0.718
22	419.98	20.49	0.249	0.129	12.90	0.718
23	479.98	21.91	0.249	0.1289	12.89	0.718
24	539.98	23.24	0.249	0.1289	12.89	0.718
25	573.63	23.95	0.249	0.1288	12.88	0.718