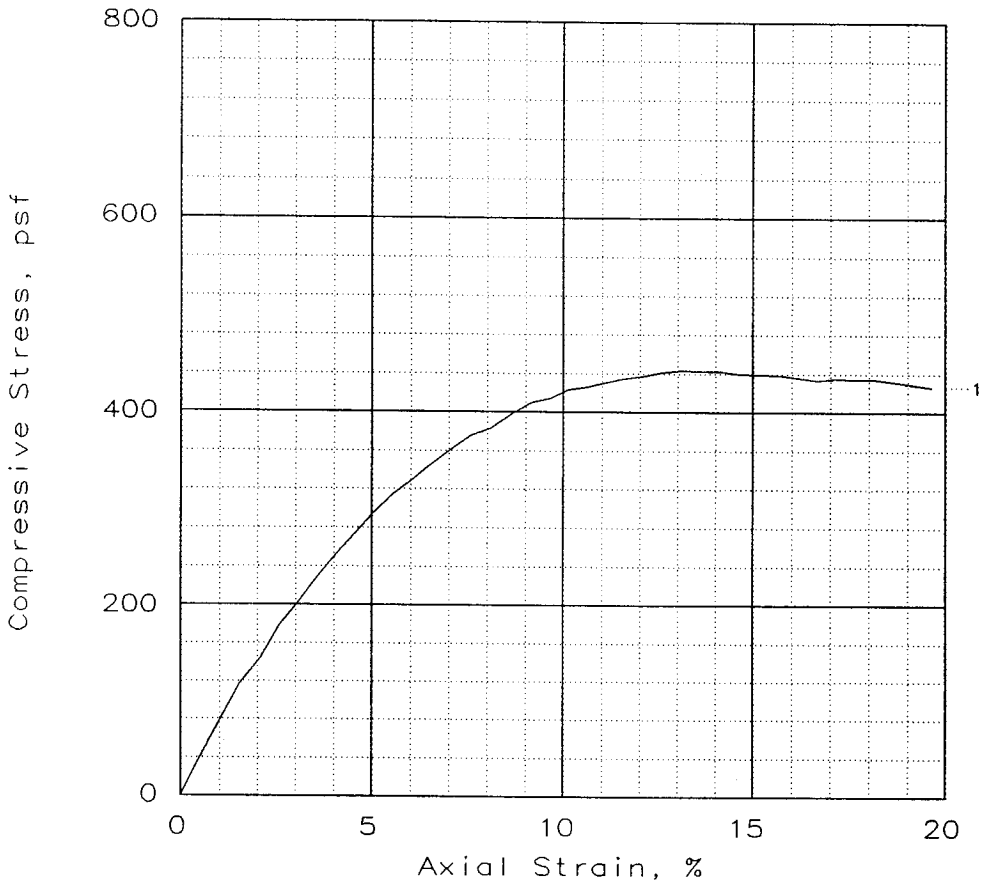
UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	443			
Undrained shear strength, psf	222			
Failure strain, %	13.1			
Strain rate, in/min	0.0577			
Water content, %	37.4			
Wet density, pcf	109.3			
Dry density, pcf	79.5			
Saturation, %	90.2			
Void ratio	1.1194			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: vSo Gr CL5 w/ SIF

GS= 2.7 | Type: Undisturbed

Project No.: 19081
Date: 10-18-05
Remarks:
Torvane = 0.160 tsf

Fig. No.: ——

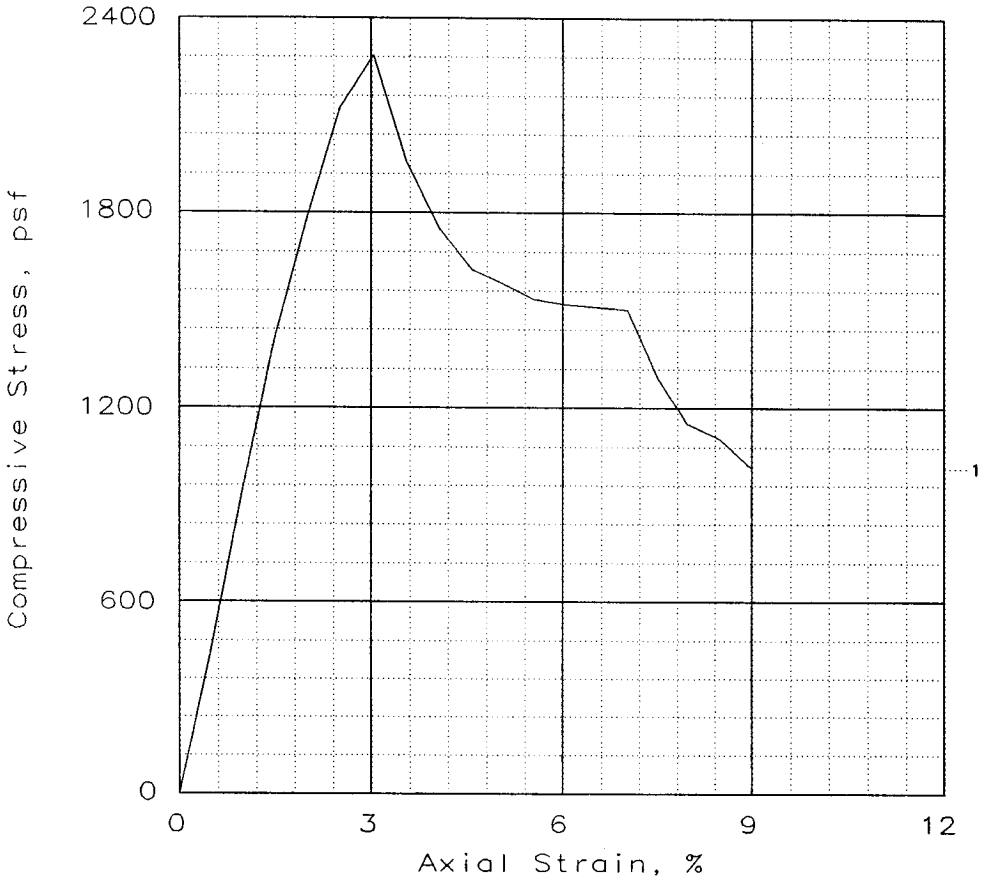
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls
London Avenue Canal, New Orleans, La
Location: Boring LAC05-1G,
Sample 19, Depth 50.8'

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	2285			
Undrained shear strength, psf	1143			
Failure strain, %	3.0			
Strain rate, in/min	0.0569			
Water content, %	47.8			
Wet density, pcf	106.4			
Dry density, pcf	72.0			
Saturation, %	95.7			
Void ratio	1.3582			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: St Gr CH4 w/ ars SM, SL

			GS= 2.72	Type: Undisturbed

Project No.: 19081
Date: 10-18-05
Remarks:
Torvane = 0.470 tsf

Fig. No.: ———

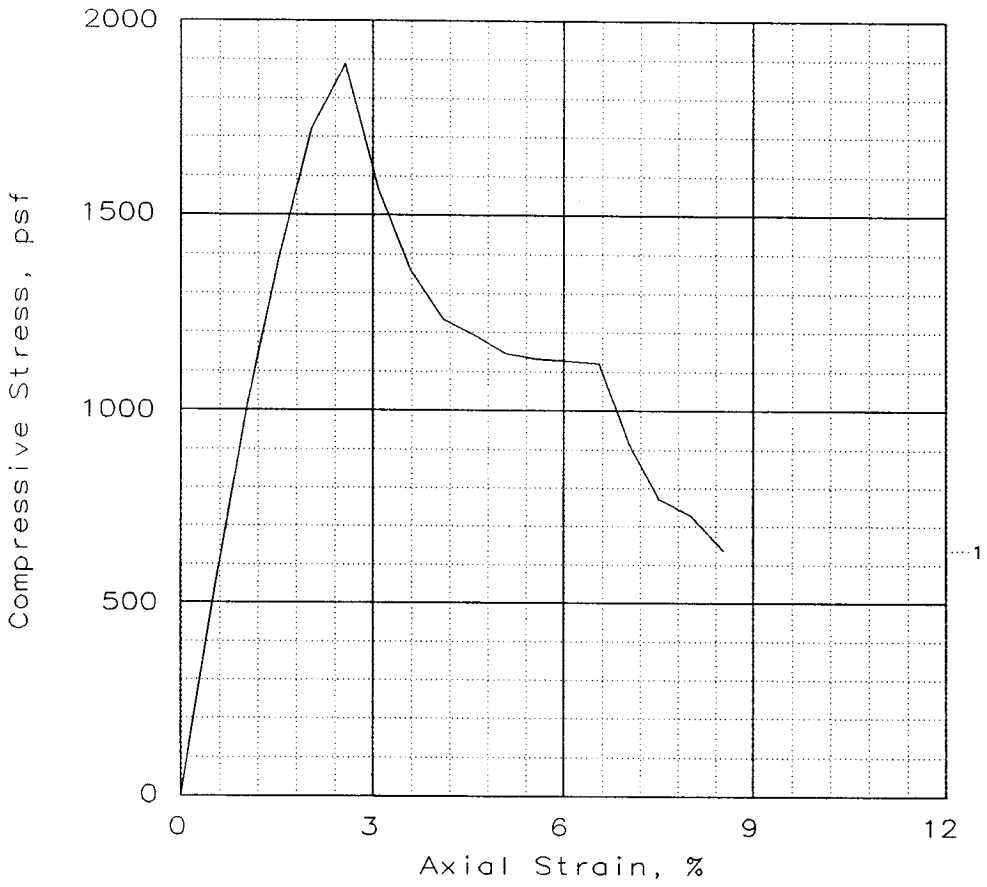
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls
London Avenue Canal, New Orleans, La
Location: Boring LAC05-1G,
Sample 21, Depth 55.3'

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	1567			
Undrained shear strength, psf	783			
Failure strain, %	3.1			
Strain rate, in/min	0.0579			
Water content, %	48.3			
Wet density, pcf	105.9			
Dry density, pcf	71.4			
Saturation, %	94.8			
Void ratio	1.3954			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: St Gr CH4 w/ SIF, SL, Ins SM

GS= 2.74 | Type: Undisturbed

Project No.: 19081
Date: 10-18-05
Remarks:
Torvane = 0.575 tsf

Fig. No.: ——

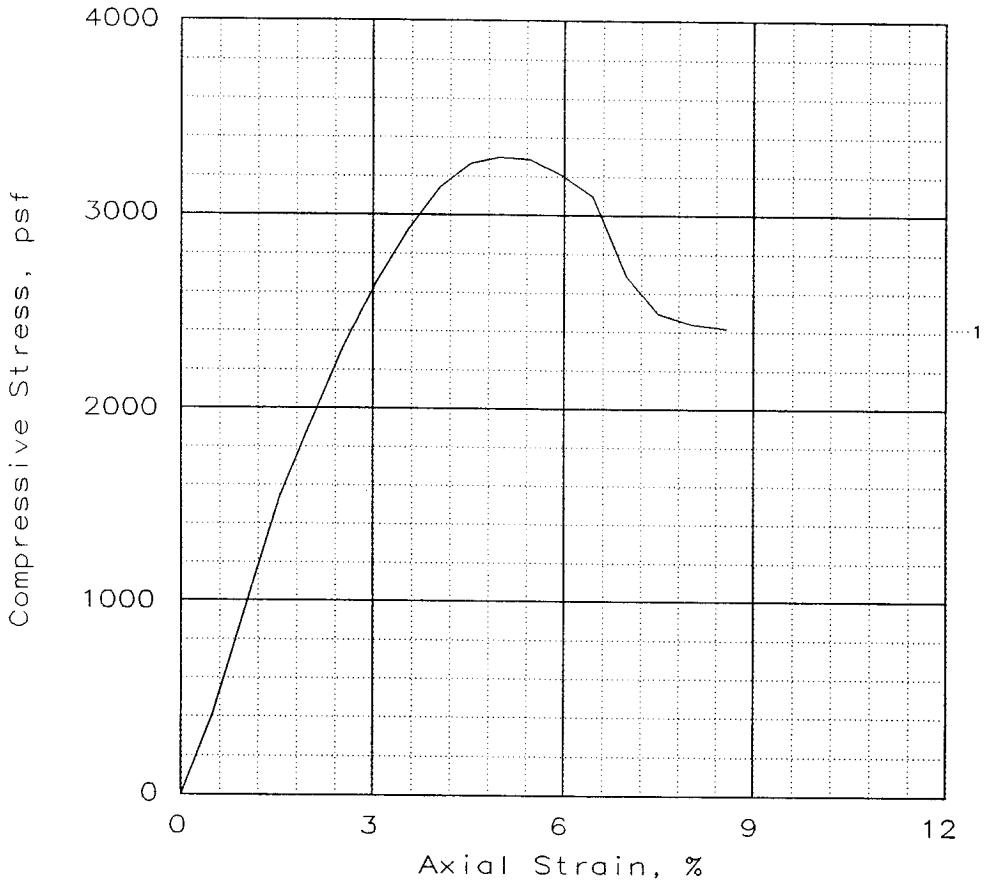
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls
London Avenue Canal, New Orleans, La
Location: Boring LAC05-1G,
Sample 23, Depth 60.3'

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	3299			
Undrained shear strength, psf	1649			
Failure strain, %	5.0			
Strain rate, in/min	0.0570			
Water content, %	45.8			
Wet density, pcf	108.2			
Dry density, pcf	74.2			
Saturation, %	96.1			
Void ratio	1.3043			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: St Gr CH4 w/ Ins SM, SL

GS= 2.74 | Type: Undisturbed

Project No.: 19081
Date: 10-18-05

Remarks:
Torvane = 0.625 tsf

Fig. No.: ———

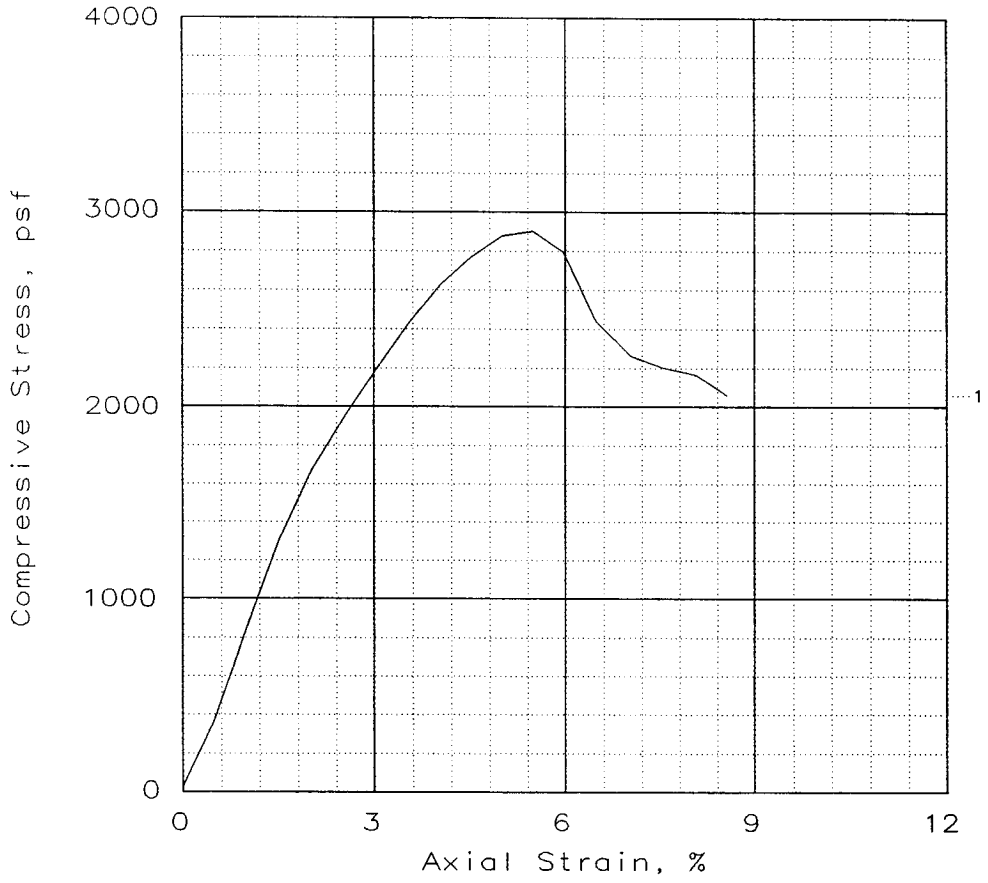
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls
London Avenue Canal, New Orleans, La
Location: Boring LAC05-1G,
Sample 25, Depth 65.3'

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	2903			
Undrained shear strength, psf	1451			
Failure strain, %	5.5			
Strain rate, in/min	0.0576			
Water content, %	49.5			
Wet density, pcf	106.2			
Dry density, pcf	71.0			
Saturation, %	96.3			
Void ratio	1.4077			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: St Gr CH4 w/ SL

			GS= 2.74	Type: Undisturbed

Project No.: 19081
Date: 10-18-05
Remarks:
Torvane = 0.675 tsf

Fig. No.: ——

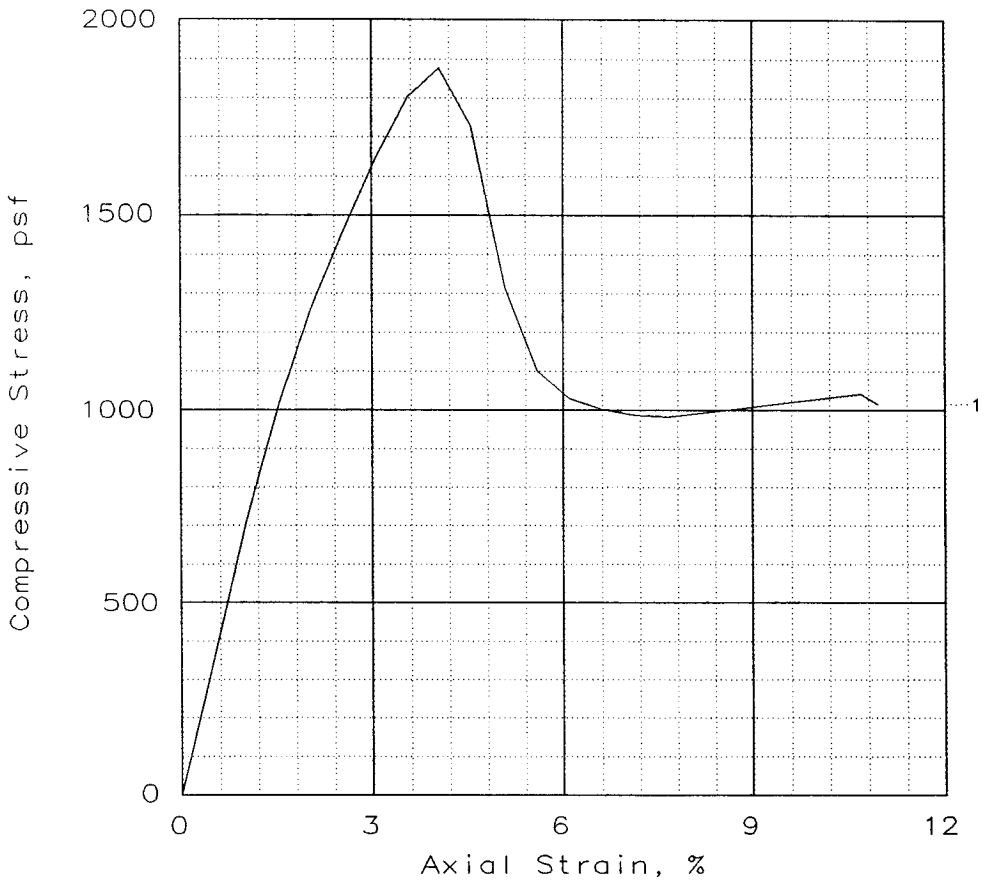
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls
London Avenue Canal, New Orleans, La
Location: Boring LAC05-1G,
Sample 27, Depth 70.3'

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	1877			
Undrained shear strength, psf	939			
Failure strain, %	4.1			
Strain rate, in/min	0.0578			
Water content, %	53.9			
Wet density, pcf	102.2			
Dry density, pcf	66.4			
Saturation, %	94.2			
Void ratio	1.5571			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: M Gr CH4 w/ ars & Ins SM, Tr-wd

			GS= 2.72	Type: Undisturbed

Project No.: 19081
Date: 10-18-05
Remarks:
Torvane = 0.700 tsf

Fig. No.: ——

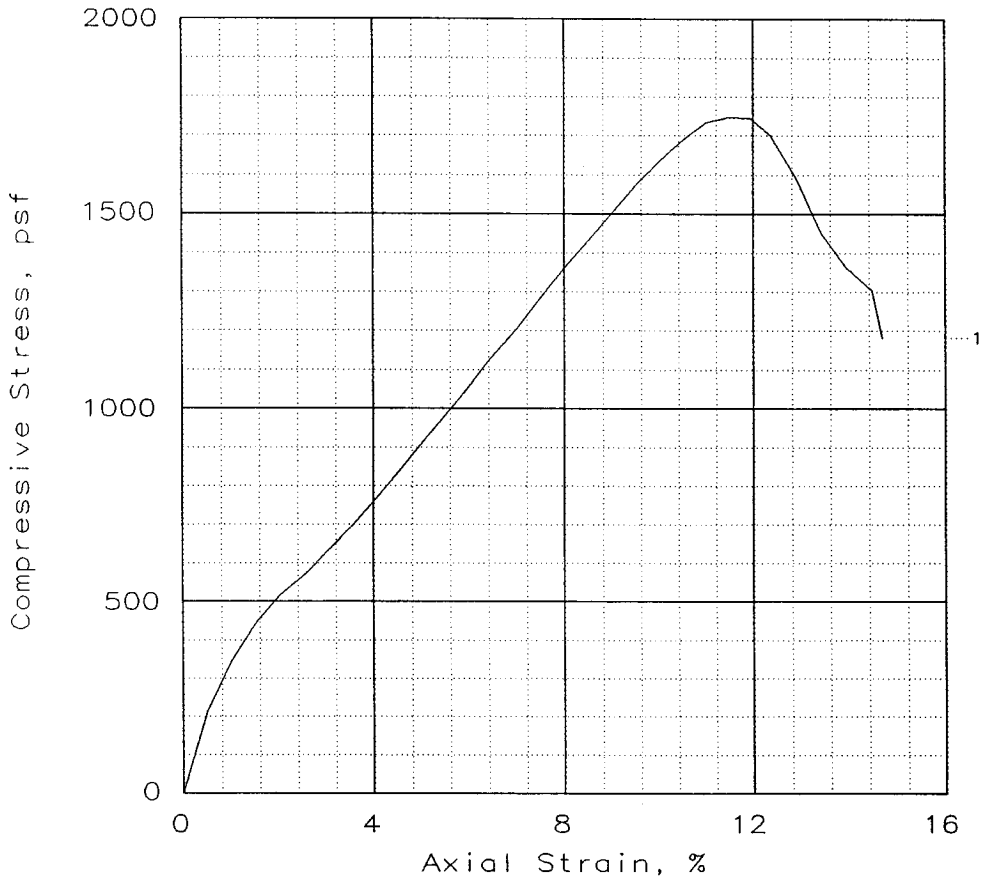
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls
London Avenue Canal, New Orleans, La
Location: Boring LAC05-1G,
Sample 29, Depth 75.3'

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	1748			
Undrained shear strength, psf	874			
Failure strain, %	11.5			
Strain rate, in/min	0.0571			
Water content, %	35.1			
Wet density, pcf	113.0			
Dry density, pcf	83.7			
Saturation, %	92.1			
Void ratio	1.0436			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: M Gr CH3 w/ Ins SM

GS= 2.74 | Type: Undisturbed

Project No.: 19081
Date: 10-18-05
Remarks:
Torvane = 0.420 tsf

Fig. No.: ———

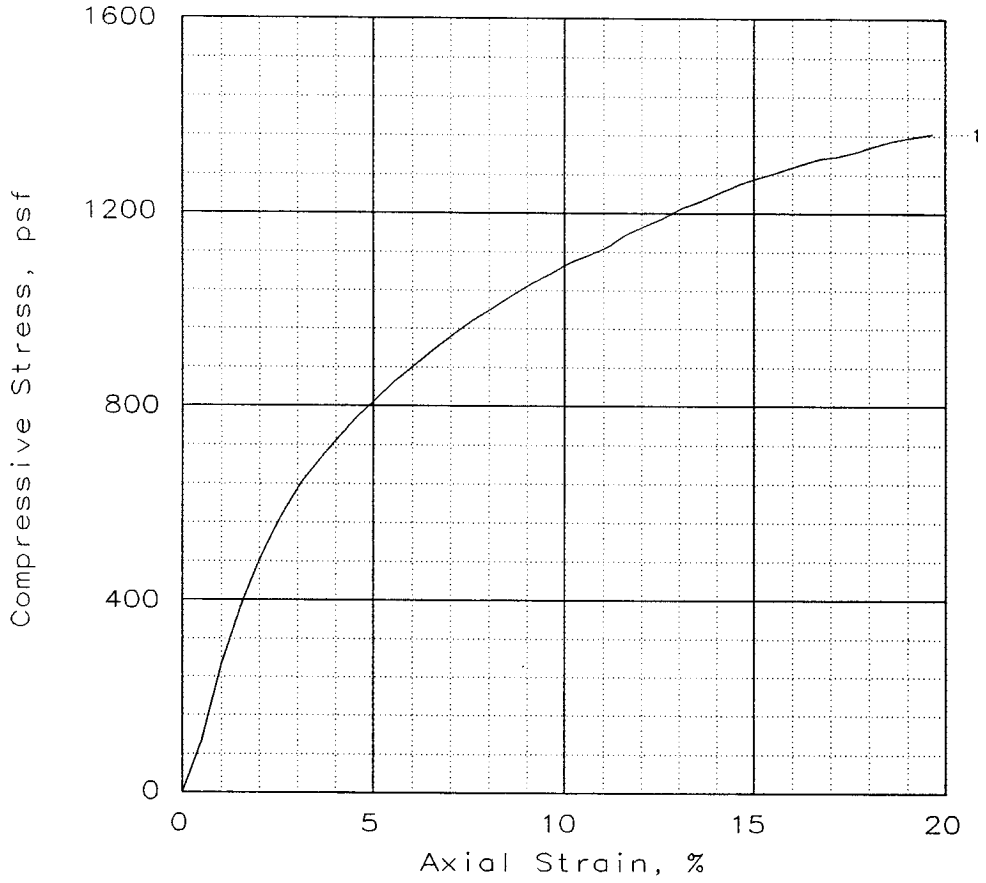
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls
London Avenue Canal, New Orleans, La
Location: Boring LAC05-1G,
Sample 35, Depth 90.3'

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	1365			
Undrained shear strength, psf	682			
Failure strain, %	19.6			
Strain rate, in/min	0.0580			
Water content, %	40.8			
Wet density, pcf	110.5			
Dry density, pcf	78.5			
Saturation, %	94.8			
Void ratio	1.1793			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: M Gr CH4 w/ Ins SM

GS= 2.74 | Type: Undisturbed

Project No.: 19081
Date: 10-18-05
Remarks:
Torvane = 0.330 tsf

Fig. No.: ———

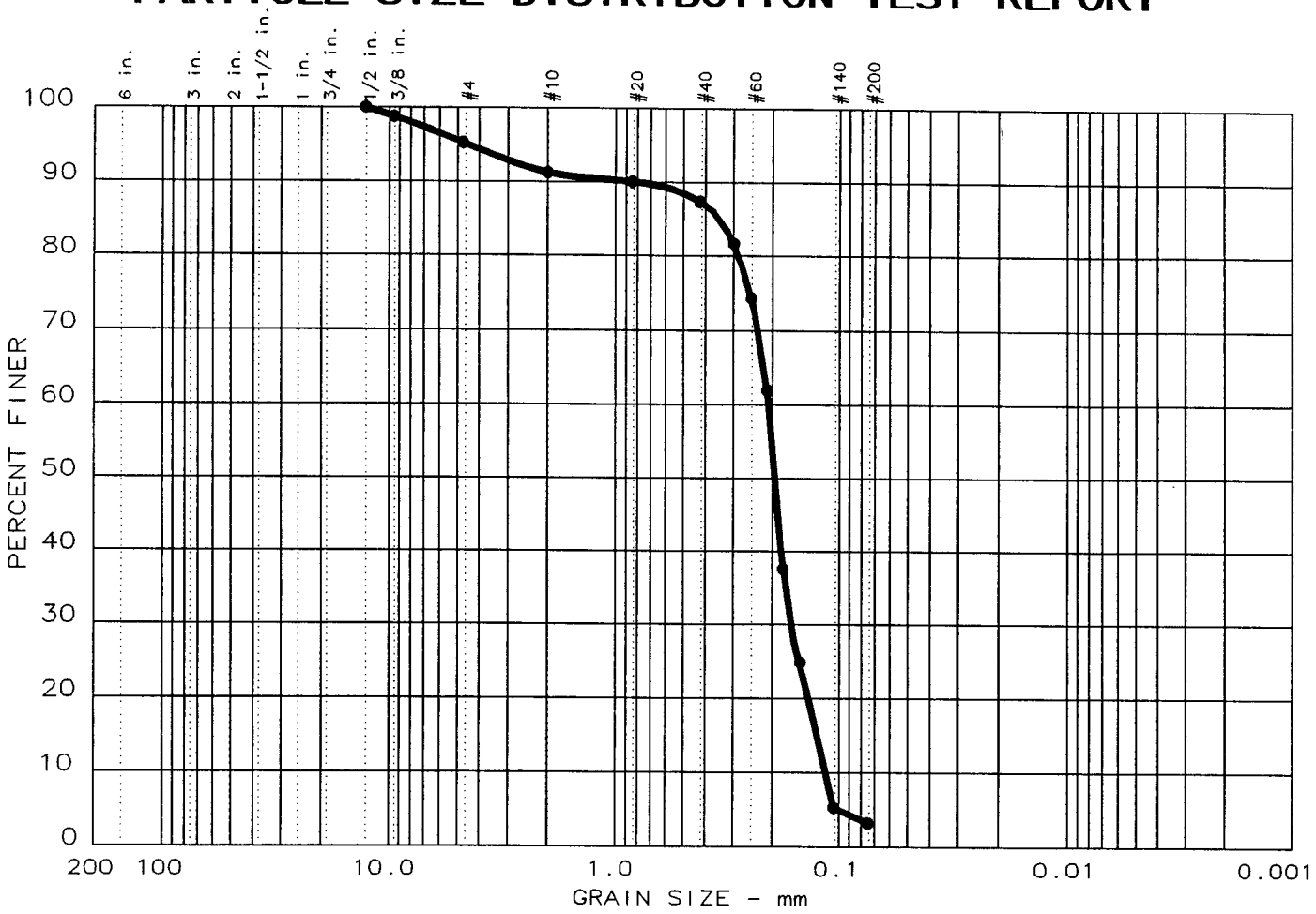
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls
London Avenue Canal, New Orleans, La
Location: Boring LAC05-1G,
Sample 38, Depth 97.8'

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	18	0.0	4.7	92.1	3.2		SM1-s		

SIEVE inches size	PERCENT FINER ●		
0.5	100.0		
0.375	98.8		
GRAIN SIZE			
D_{60}	0.21		
D_{30}	0.17		
D_{10}	0.11		
COEFFICIENTS			
C_c	1.15		
C_u	1.8		

SIEVE number size	PERCENT FINER ●
4	95.3
10	91.2
20	90.1
40	87.4
50	81.6
60	74.4
70	62.0
80	37.6
100	24.8
140	5.3
200	3.2

Sample information:

● Bor.LAC05-1G, Sample 11
GR SM1-s W/ SIF

Remarks:

Sample depth 30.0'

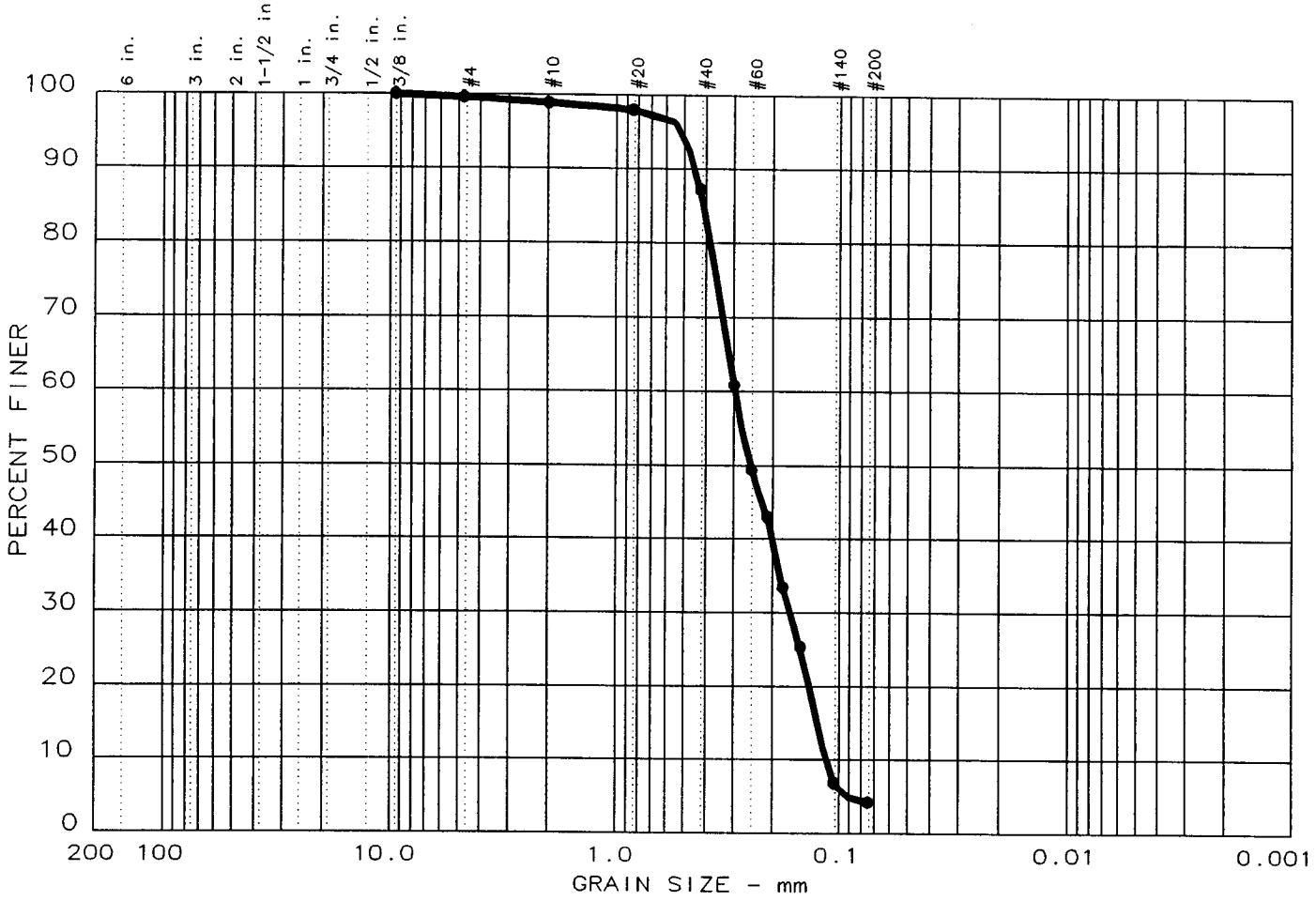
Eustis Engineering Company, Inc.

Project No.: 19081

Project: USACE - London Ave Canal

Date: 10-31-05 Data Sheet No. ——

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	19	0.0	0.4	95.4	4.2		SP		

SIEVE inches size	PERCENT FINER ●		
0.375	100.0		
	GRAIN SIZE		
D_{60}	0.30		
D_{30}	0.17		
D_{10}	0.11		
	COEFFICIENTS		
C_c	0.82		
C_u	2.6		

SIEVE number size	PERCENT FINER ●		
4	99.6		
10	98.9		
20	98.0		
40	87.2		
50	60.9		
60	49.4		
70	43.0		
80	33.4		
100	25.4		
140	6.9		
200	4.2		

Sample information:

● Bor.LAC05-1G, Sample 15
GR SP W/ SIF

Remarks:

Sample depth 40.5'

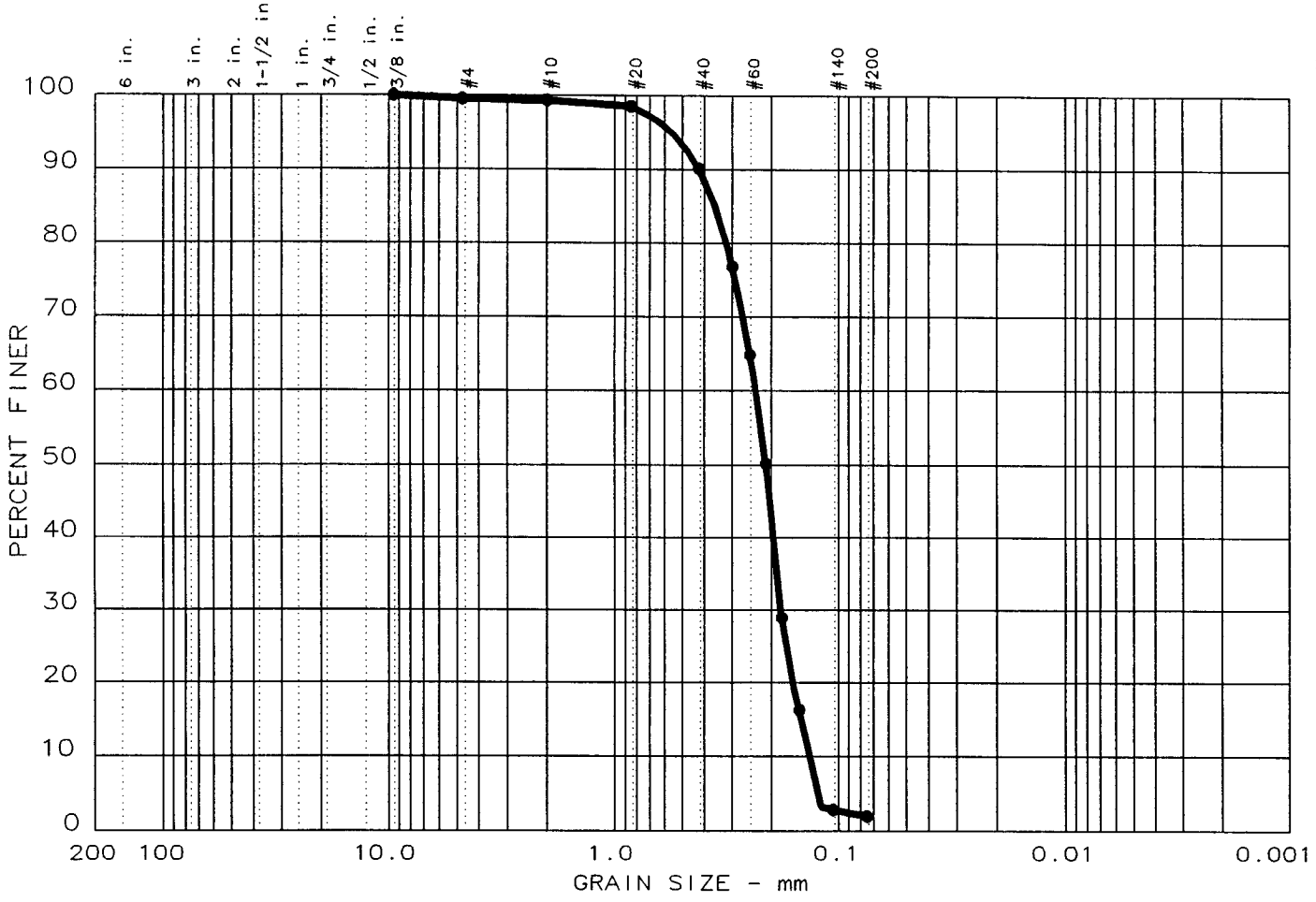
Eustis Engineering Company, Inc.

Project No.: 19081

Project: USACE - London Ave Canal

Date: 10-31-05 Data Sheet No. ——

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	17	0.0	0.5	97.6	1.9		SP		

SIEVE inches size	PERCENT FINER ●		
0.375	100.0		
	GRAIN SIZE		
D_{60}	0.23		
D_{30}	0.18		
D_{10}	0.13		
	COEFFICIENTS		
C_c	1.05		
C_u	1.7		

SIEVE number size	PERCENT FINER ●		
4	99.5		
10	99.3		
20	98.6		
40	90.2		
50	76.8		
60	64.9		
70	50.2		
80	28.9		
100	16.3		
140	2.8		
200	1.9		

Sample information:
● Bor.LAC05-1G,Sample 8
GR SP

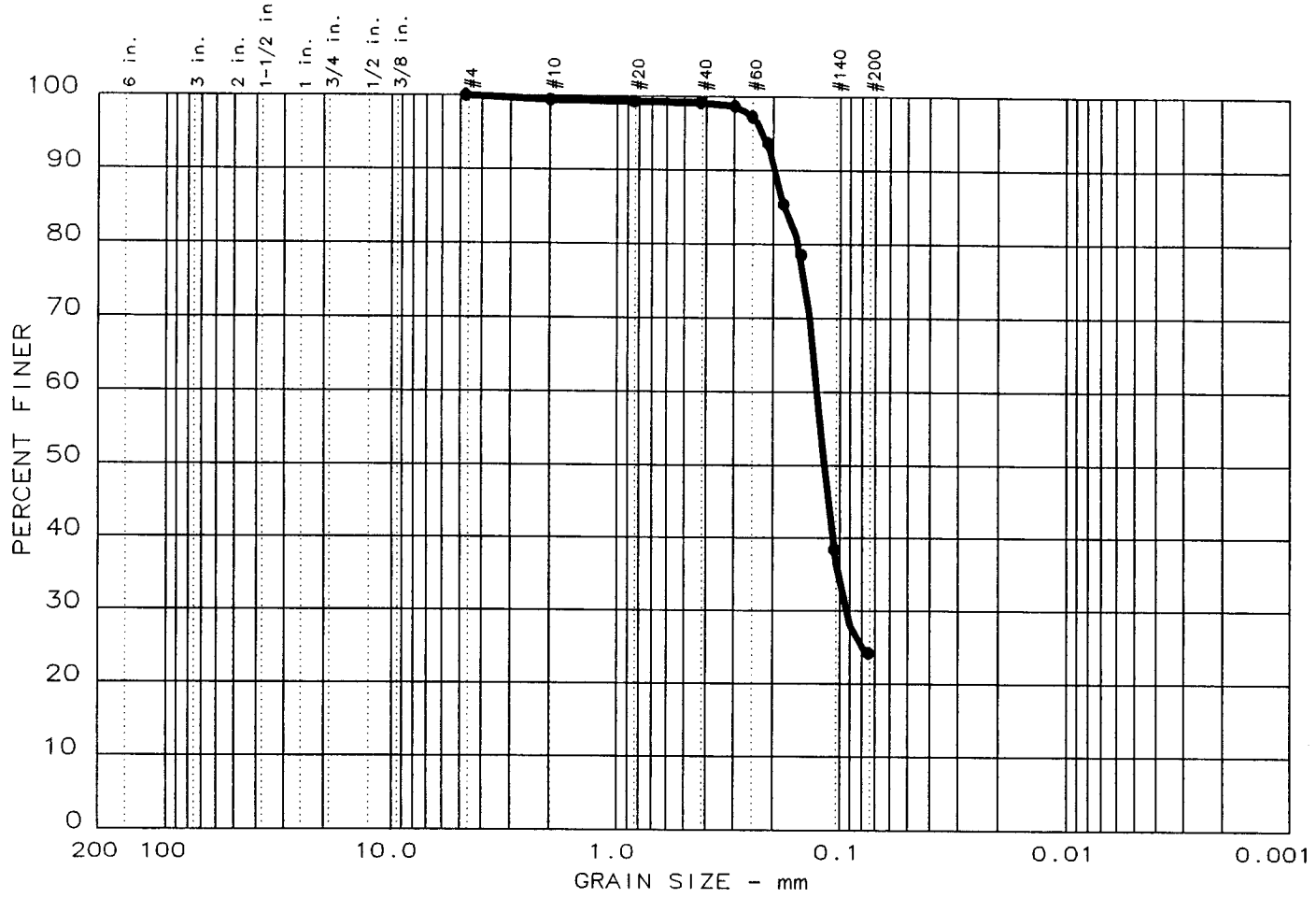
Remarks:
Sample depth 22.5'

Eustis Engineering Company, Inc.

Project No.: 19081
Project: USACE - London Ave Canal

Date: 10-31-05 Data Sheet No. ——

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	20	0.0	0.0	75.8	24.2		SC3-s		

SIEVE inches size	PERCENT FINER ●		
GRAIN SIZE			
D_{60}	0.13		
D_{30}	0.09		
D_{10}			
COEFFICIENTS			
C_c			
C_u			

SIEVE number size	PERCENT FINER ●
4	100.0
10	99.4
20	99.3
40	99.1
50	98.7
60	97.3
70	93.7
80	85.4
100	78.6
140	38.4
200	24.2

Sample information:

● Bor.LAC05-1G, Sample 17
SO GR SC3-s W/ SIF

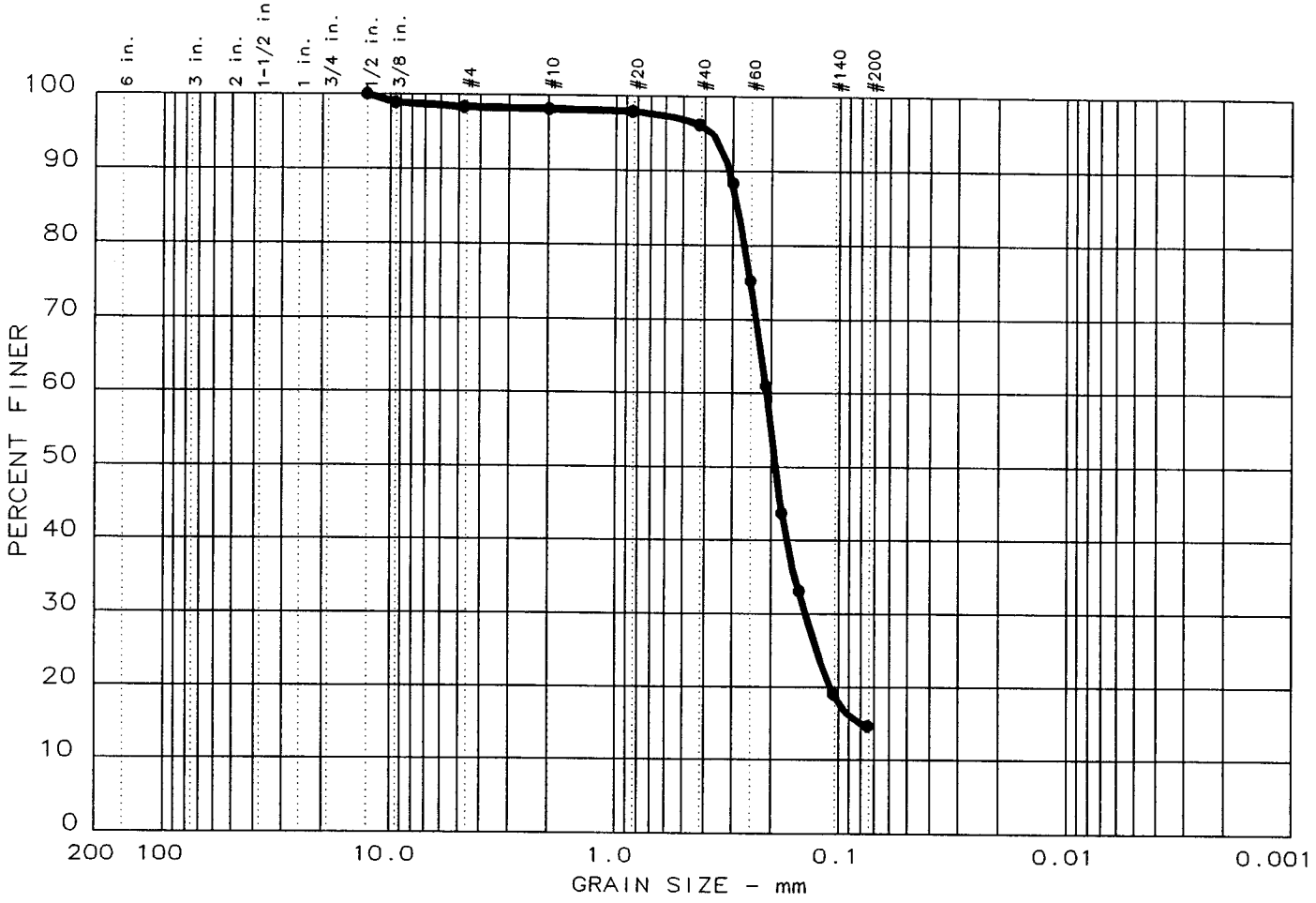
Remarks:
Sample depth 45.5'

Eustis Engineering Company, Inc.

Project No.: 19081
Project: USACE - London Ave Canal

Date: 10-31-05 Data Sheet No. ——

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	1	0.0	1.7	83.7	14.6		SM1-s		

SIEVE inches size	PERCENT FINER ●		
0.5	100.0		
0.375	98.9		
GRAIN SIZE			
D_{60}	0.21		
D_{30}	0.14		
D_{10}			
COEFFICIENTS			
C_c			
C_u			

SIEVE number size	PERCENT FINER ●		
4	98.3		
10	98.1		
20	97.9		
40	96.2		
50	88.3		
60	75.3		
70	61.0		
80	43.7		
100	33.1		
140	19.1		
200	14.7		

Sample information:
● Bor.LAC05-1G, Sample 31
GR SM1-s W/ SIF, WD & RT

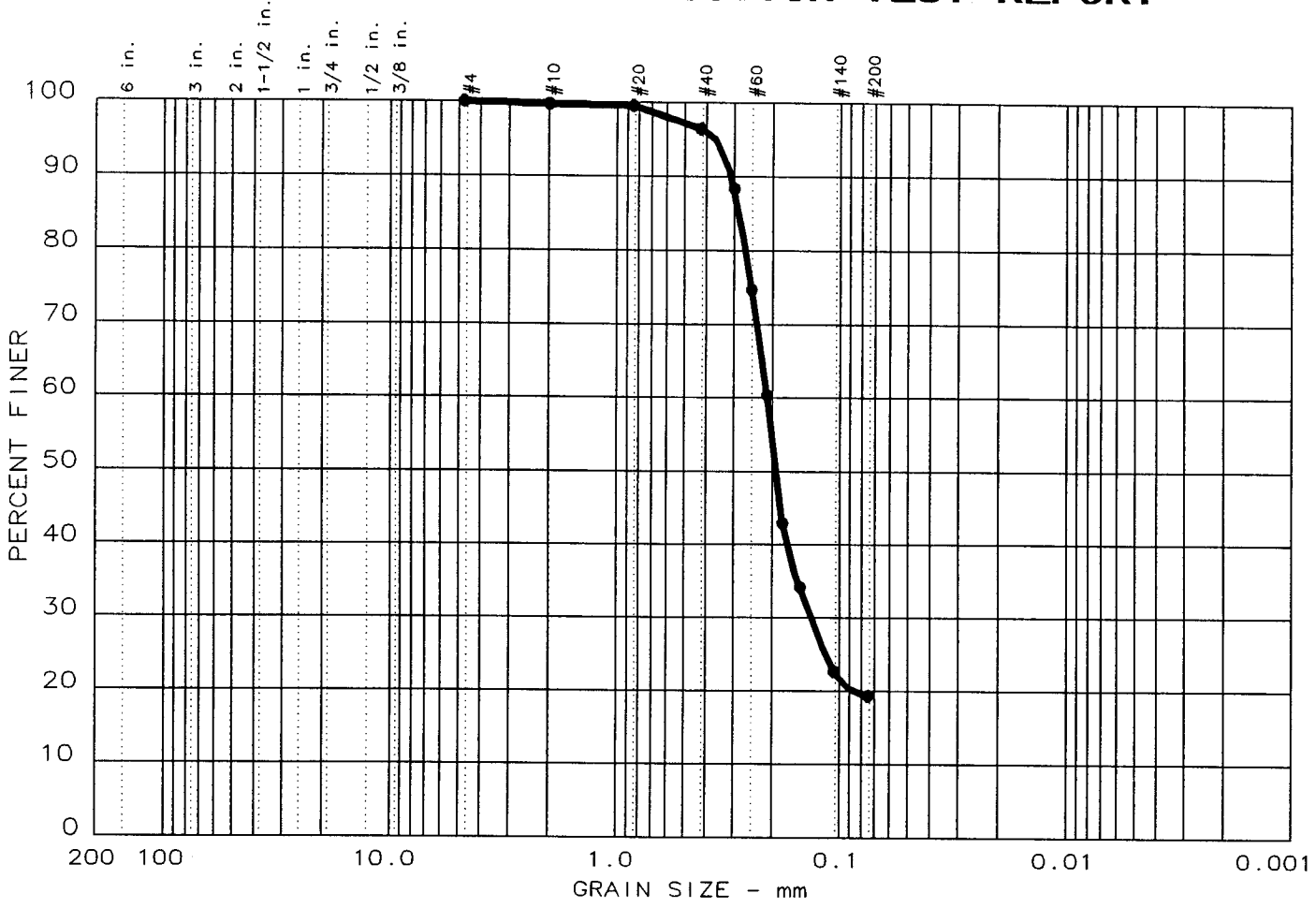
Remarks:
Sample depth 80.0'

Eustis Engineering Company, Inc.

Project No.: 19081
Project: USACE - London Ave Canal

Date: 10-31-05 Data Sheet No. ——

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	2	0.0	0.0	80.7	19.3		CL3		

SIEVE inches size	PERCENT FINER ●		
GRAIN SIZE			
D_{60}	0.21		
D_{30}	0.13		
D_{10}			
COEFFICIENTS			
C_c			
C_u			

SIEVE number size	PERCENT FINER ●		
4	100.0		
10	99.7		
20	99.5		
40	96.4		
50	88.4		
60	74.7		
70	60.3		
80	42.9		
100	34.2		
140	22.7		
200	19.3		

Sample information:

● Bor. LAC05-1G, Sample 33
VSO GR SC3-s W/ SIF

Remarks:

Sample depth 85.0'

Eustis Engineering Company, Inc.

Project No.: 19081

Project: USACE - London Ave Canal

Date: 10-31-05 Data Sheet No. ——