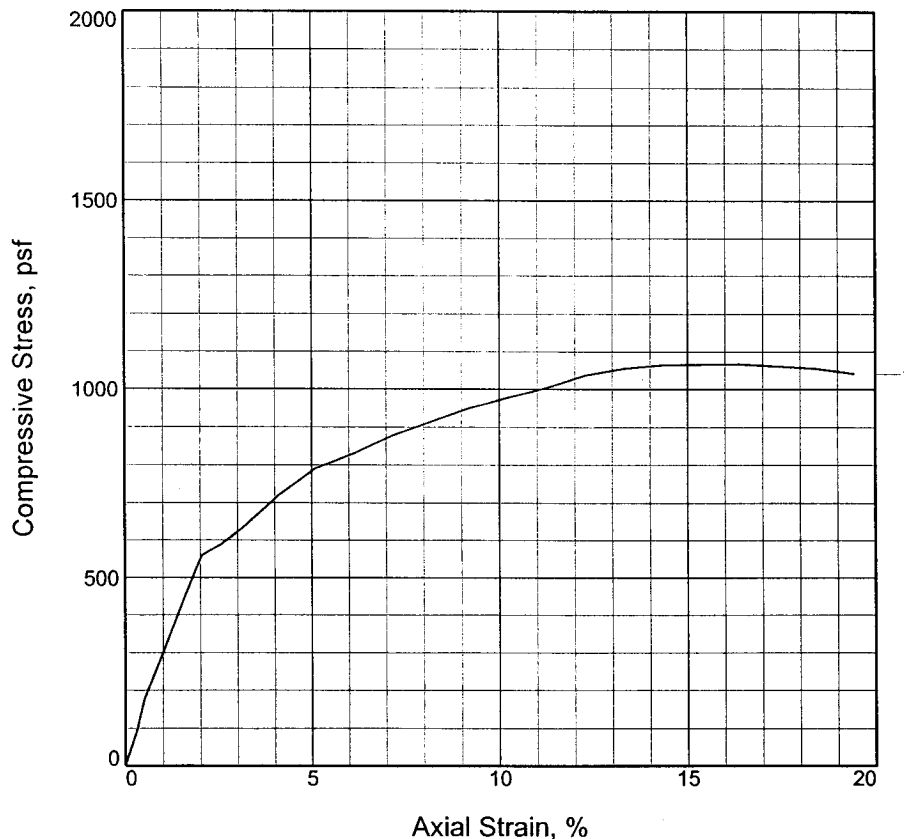


UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	1067.1			
Undrained shear strength, psf	533.6			
Failure strain, %	16.4			
Strain rate, in./min.	0.055			
Water content, %	43.4			
Wet density, pcf	106.6			
Dry density, pcf	74.3			
Saturation, %	91.4			
Void ratio	1.3018			
Specimen diameter, in.	1.388			
Specimen height, in.	2.930			
Height/diameter ratio	2.11			

Description: M GR CH4 W/ LNS & LYS ML

LL = **PL =** **PI =** **Assumed GS= 2.74** **Type: UNDISTURBED**

Project No.: 19082

Date: 11-9-05

Remarks:

TORVANE = 0.350 TSF

Client: URS Corporation

Project: U.S. Army Corps of Engineers
Inner Harbor Navigational Canal

Source of Sample: B-2WG **Depth:** 5.0

Sample Number: 3

UNCONFINED COMPRESSION TEST

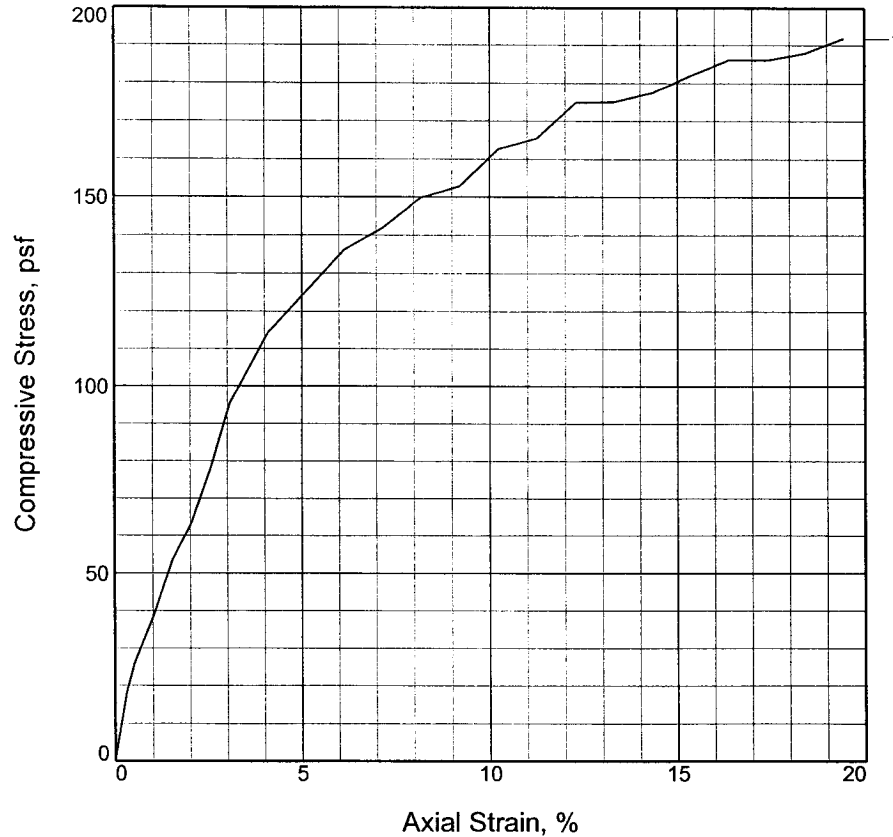
EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: JS

Checked By: JS

UNCONFINED COMPRESSION TEST



Specimen No.	1		
Unconfined strength, psf	191.8		
Undrained shear strength, psf	95.9		
Failure strain, %	19.5		
Strain rate, in./min.	0.058		
Water content, %	50.2		
Wet density, pcf	103.2		
Dry density, pcf	68.7		
Saturation, %	92.8		
Void ratio	1.4719		
Specimen diameter, in.	1.388		
Specimen height, in.	2.930		
Height/diameter ratio	2.11		

Description: VSO GR CH4 W/ ARS SM, WD, SIF

LL = PL = PI = Assumed GS= 2.72 Type: UNDISTURBED

Project No.: 19082

Date: 11-9-05

Remarks:

Client: URS Corporation

Project: U.S. Army Corps of Engineers
Inner Harbor Navigational Canal

Source of Sample: B-2WG **Depth:** 10.0

Sample Number: 5

UNCONFINED COMPRESSION TEST

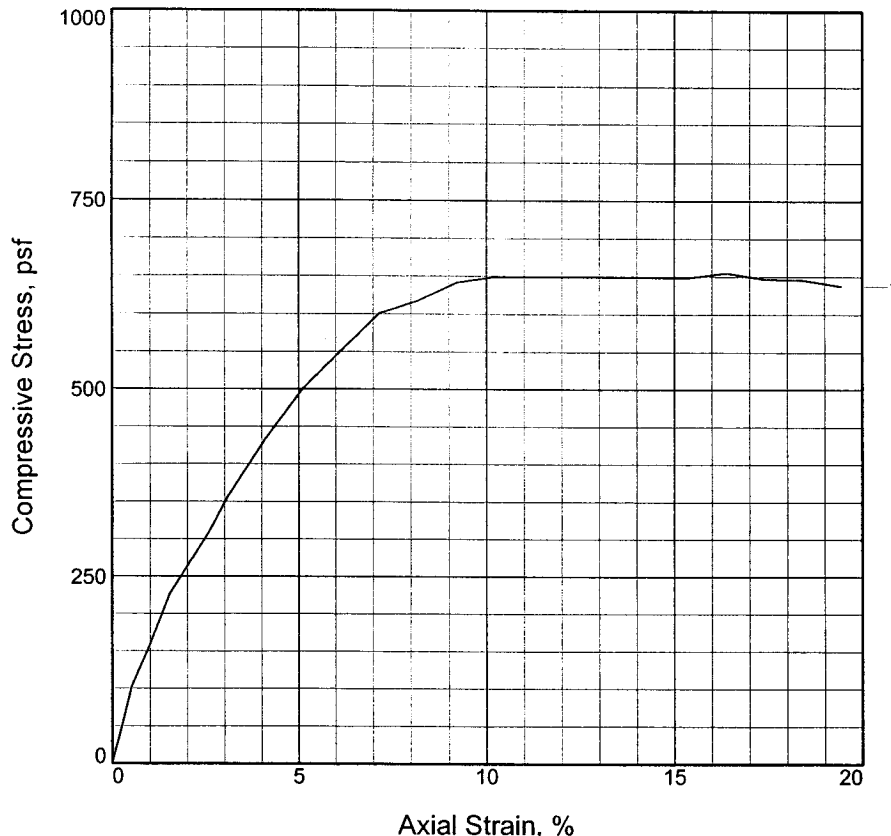
EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: RR

Checked By: JS

UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	654.5			
Undrained shear strength, psf	327.3			
Failure strain, %	16.4			
Strain rate, in./min.	0.055			
Water content, %	50.8			
Wet density, pcf	104.1			
Dry density, pcf	69.0			
Saturation, %	94.2			
Void ratio	1.4785			
Specimen diameter, in.	1.388			
Specimen height, in.	2.930			
Height/diameter ratio	2.11			

Description: SO GR CH4 W/ LNS & LYS ML

LL = **PL =** **PI =** **Assumed GS= 2.74** **Type: UNDISTURBED**

Project No.: 19082
Date: 11-9-05
Remarks:
 TORVANE = 0.160 TSF

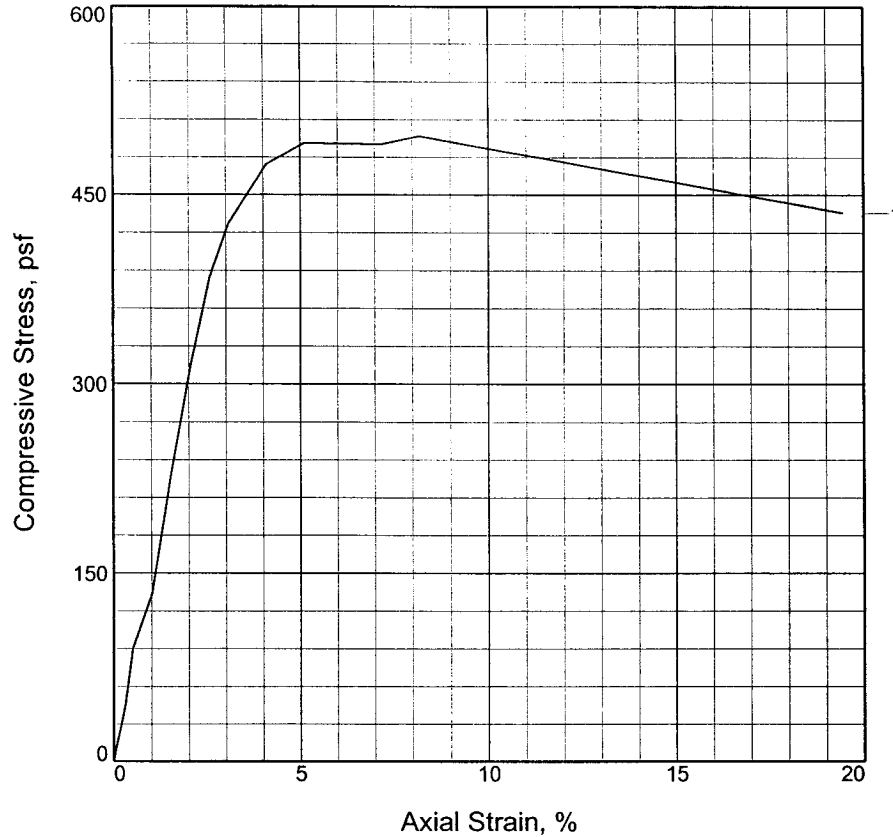
Client: URS Corporation
Project: U.S. Army Corps of Engineers
 Inner Harbor Navigational Canal
Source of Sample: B-2WG **Depth:** 27.5
Sample Number: 12

UNCONFINED COMPRESSION TEST
EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: RR **Checked By:** JS

UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	496.7			
Undrained shear strength, psf	248.3			
Failure strain, %	8.2			
Strain rate, in./min.	0.058			
Water content, %	72.2			
Wet density, pcf	94.0			
Dry density, pcf	54.6			
Saturation, %	92.8			
Void ratio	2.1337			
Specimen diameter, in.	1.388			
Specimen height, in.	2.930			
Height/diameter ratio	2.11			

Description: VSO GR CH4 W/ LNS ML

LL = PL = PI = Assumed GS= 2.74 Type: UNDISTURBED

Project No.: 19082
Date: 11-6-05
Remarks:
 TORVANE = 0.150 TSF

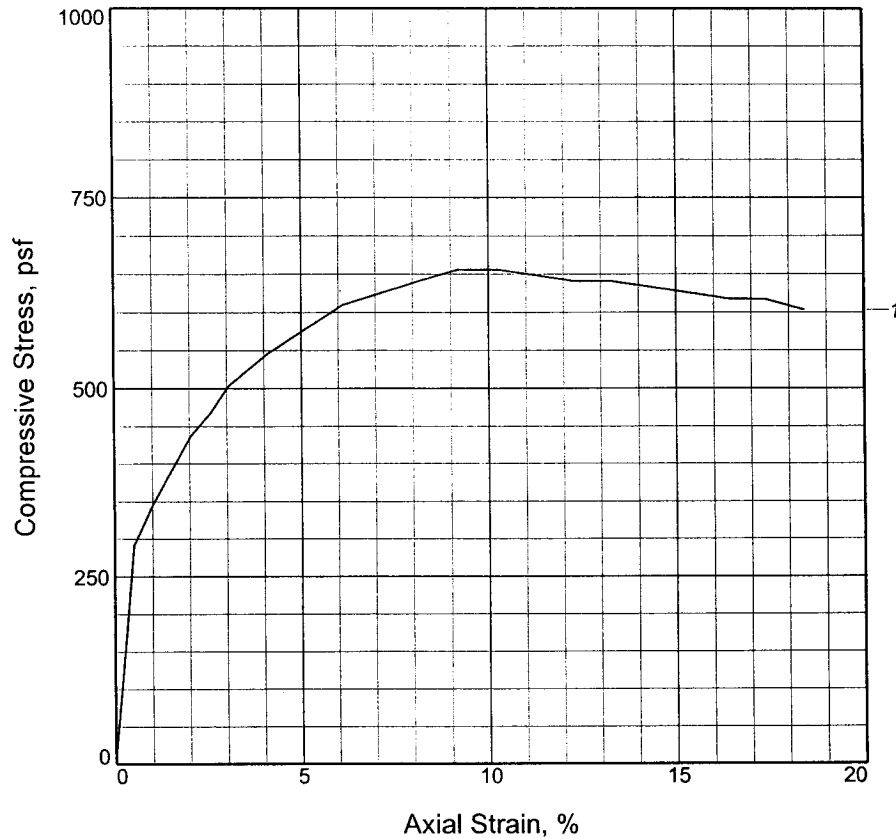
Client: URS Corporation
Project: U.S. Army Corps of Engineers
 Inner Harbor Navigational Canal
Source of Sample: B-2WG **Depth:** 32.5
Sample Number: 14

UNCONFINED COMPRESSION TEST
EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: JS Checked By: JS

UNCONFINED COMPRESSION TEST



Specimen No.	1		
Unconfined strength, psf	655.9		
Undrained shear strength, psf	328.0		
Failure strain, %	9.2		
Strain rate, in./min.	0.059		
Water content, %	66.0		
Wet density, pcf	96.4		
Dry density, pcf	58.1		
Saturation, %	93.0		
Void ratio	1.9456		
Specimen diameter, in.	1.388		
Specimen height, in.	2.930		
Height/diameter ratio	2.11		

Description: SO GR CH4 W/ SL

LL = PL = PI = Assumed GS= 2.74 Type: UNDISTURBED

Project No.: 19082

Date: 11-9-05

Remarks:

TORVANE = 0.200 TSF

Client: URS Corporation

Project: U.S. Army Corps of Engineers
Inner Harbor Navigational Canal

Source of Sample: B-2WG **Depth:** 37.5

Sample Number: 16

UNCONFINED COMPRESSION TEST

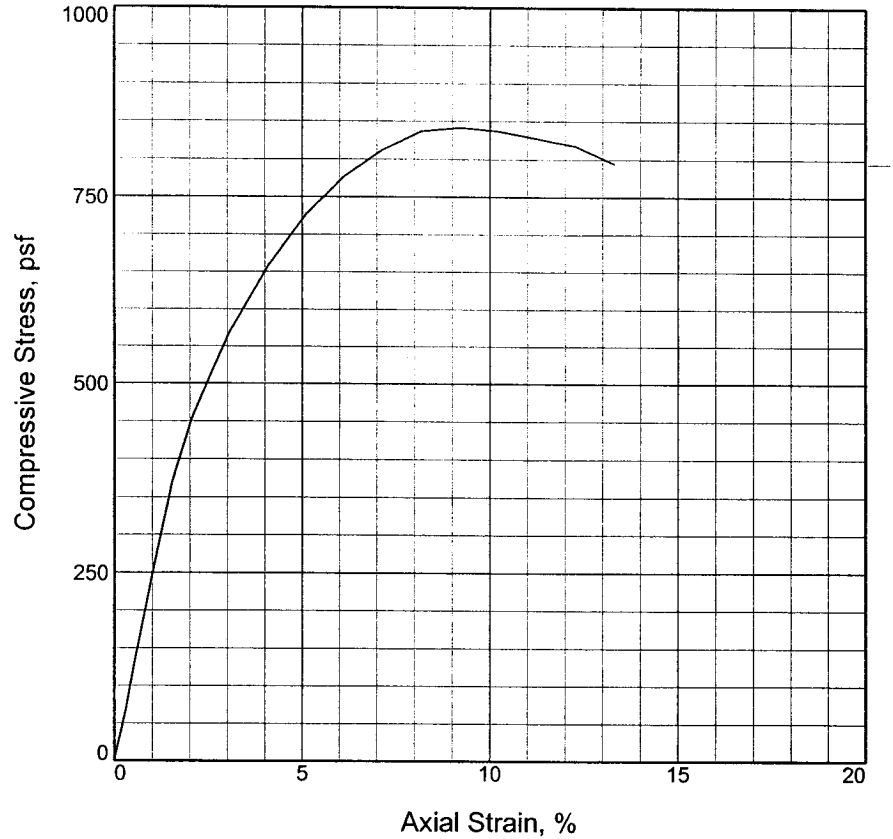
EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: RR

Checked By: JS

UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	841.3			
Undrained shear strength, psf	420.7			
Failure strain, %	9.2			
Strain rate, in./min.	0.059			
Water content, %	62.3			
Wet density, pcf	98.0			
Dry density, pcf	60.4			
Saturation, %	93.1			
Void ratio	1.8326			
Specimen diameter, in.	1.388			
Specimen height, in.	2.930			
Height/diameter ratio	2.11			

Description: SO GR CH4 W/ LNS ML

LL = PL = PI = Assumed GS= 2.74 Type: UNDISTURBED

Project No.: 19082

Date: 11-9-05

Remarks:

TORVANE = 0.200 TSF

Client: URS Corporation

Project: U.S. Army Corps of Engineers
Inner Harbor Navigational Canal

Source of Sample: B-2WG **Depth:** 42.5

Sample Number: 18

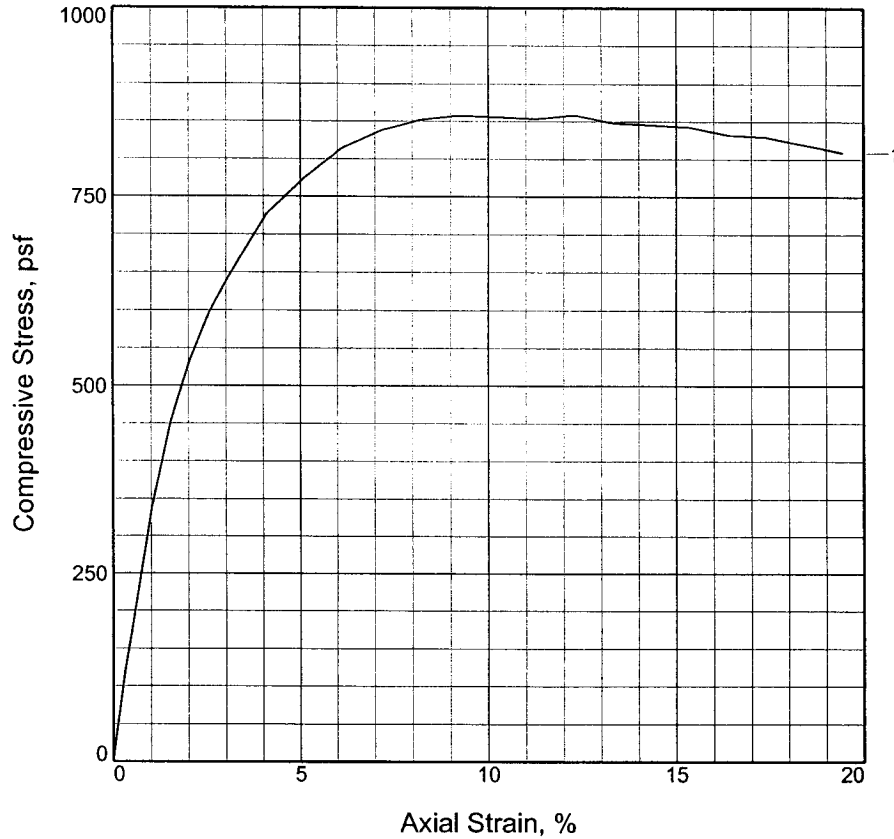
UNCONFINED COMPRESSION TEST

EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: JL Checked By: JS

UNCONFINED COMPRESSION TEST



Specimen No.	1		
Unconfined strength, psf	858.2		
Undrained shear strength, psf	429.1		
Failure strain, %	12.3		
Strain rate, in./min.	0.055		
Water content, %	59.7		
Wet density, pcf	97.0		
Dry density, pcf	60.7		
Saturation, %	90.0		
Void ratio	1.8171		
Specimen diameter, in.	1.388		
Specimen height, in.	2.930		
Height/diameter ratio	2.11		

Description: SO GR CH4 W/ SL
LL = **PL =** **PI =** **Assumed GS= 2.74** **Type: UNDISTURBED**

Project No.: 19082
Date: 11-9-05
Remarks:
 TORVANE = 0.260 TSF

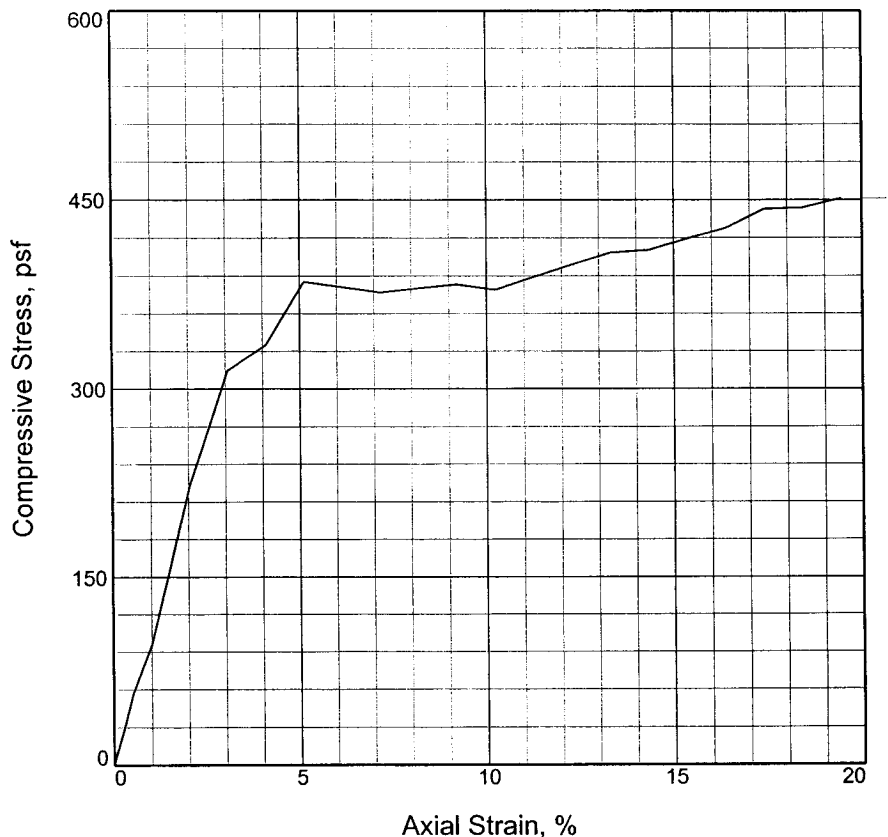
Client: URS Corporation
Project: U.S. Army Corps of Engineers
 Inner Harbor Navigational Canal
Source of Sample: B-2WG **Depth:** 47.5
Sample Number: 20

UNCONFINED COMPRESSION TEST
EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: RR Checked By: JS

UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	451.2			
Undrained shear strength, psf	225.6			
Failure strain, %	19.5			
Strain rate, in./min.	0.058			
Water content, %	55.6			
Wet density, pcf	100.0			
Dry density, pcf	64.3			
Saturation, %	91.7			
Void ratio	1.6618			
Specimen diameter, in.	1.388			
Specimen height, in.	2.930			
Height/diameter ratio	2.11			

Description: VSO GR CH4 W/ LYS SM, SIF

LL =	PL =	PI =	Assumed GS= 2.74	Type: UNDISTURBED
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Project No.: 19082

Date: 11-9-05

Remarks:

TORVANE = 0.150 TSF

Client: URS Corporation

Project: U.S. Army Corps of Engineers
Inner Harbor Navigational Canal

Source of Sample: B-2WG **Depth:** 52.5

Sample Number: 22

UNCONFINED COMPRESSION TEST

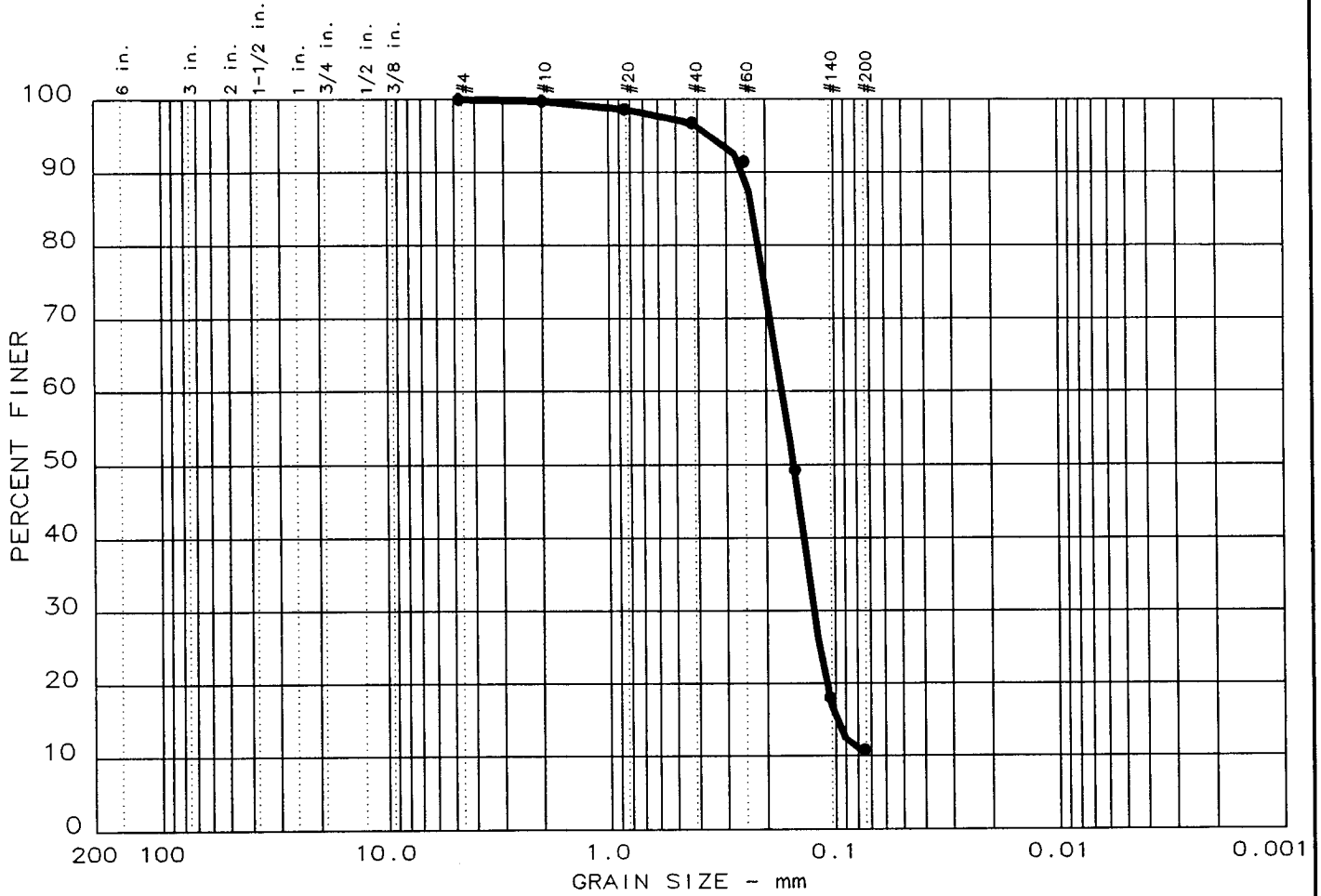
EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: RR

Checked By: JS

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.0	89.2	10.8		SM1-s		

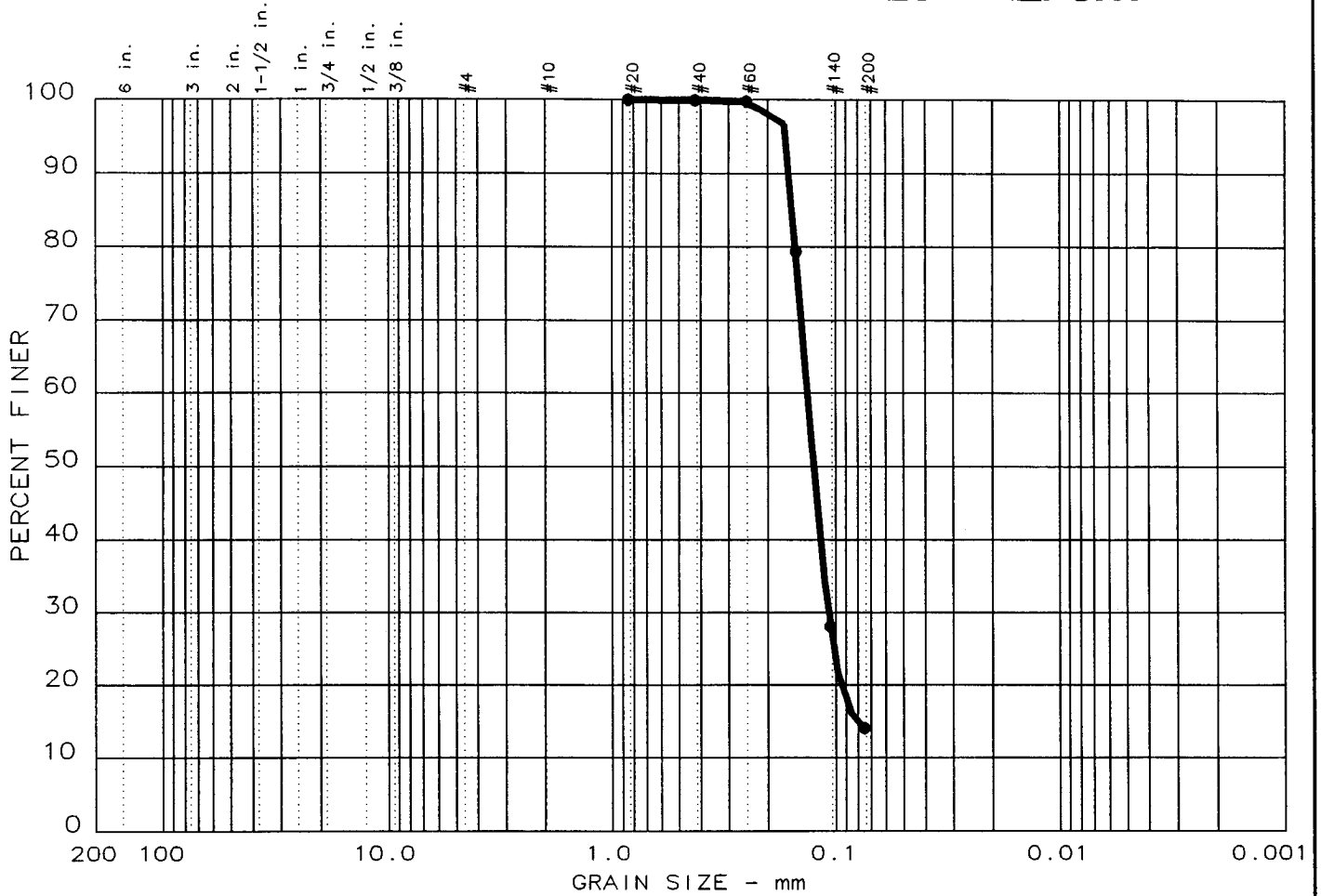
SIEVE inches size	PERCENT FINER		
●			
X	GRAIN SIZE		
D ₆₀	0.17		
D ₃₀	0.12		
D ₁₀			
X	COEFFICIENTS		
C _c			
C _u			

SIEVE number size	PERCENT FINER		
●			
4	100.0		
10	99.7		
20	98.6		
40	96.7		
60	91.4		
100	49.2		
140	18.0		
200	10.8		

Sample information:
 ● Boring 2WG, Sample 25
 GR SM1-s

Remarks:
 Sample depth 60.0'

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.0	86.0	14.0		SM1-s		

SIEVE inches size	PERCENT FINER		
	●		
X	GRAIN SIZE		
D ₆₀	0.13		
D ₃₀	0.11		
D ₁₀			
X	COEFFICIENTS		
C _c			
C _u			

SIEVE number size	PERCENT FINER		
	●		
20	100.0		
40	99.9		
60	99.7		
100	79.4		
140	28.1		
200	14.0		

Sample information:
 ● Boring 2WG, Sample 32
 GR SM1-s

Remarks:
 Sample depth 77.5'

**Eustis
Engineering
Company, Inc.**

Project No.: 19082
 Project: USACE
 Date: 11-16-05
 Data Sheet No. _____