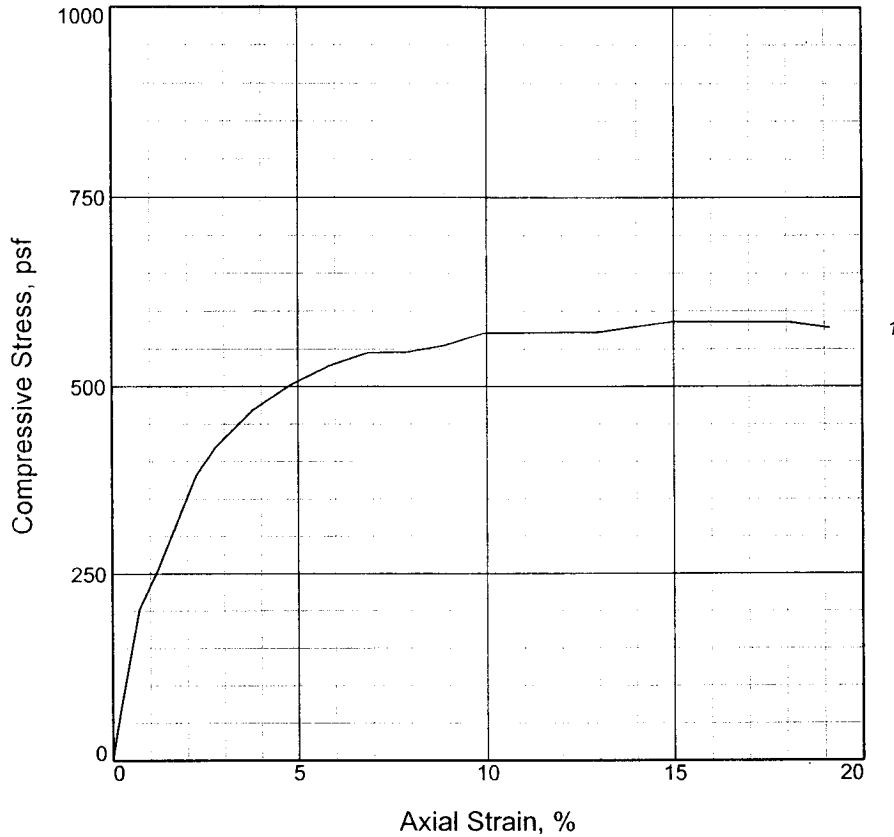


UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	586.2			
Undrained shear strength, psf	293.1			
Failure strain, %	15.1			
Strain rate, in./min.	0.059			
Water content, %	43.2			
Wet density, pcf	106.5			
Dry density, pcf	74.4			
Saturation, %	92.1			
Void ratio	1.2655			
Specimen diameter, in.	1.388			
Specimen height, in.	2.930			
Height/diameter ratio	2.11			

Description: SO GR CH3 W/ ARS & LNS ML, TR-WD

LL = PL = PI = Assumed GS= 2.7 Type: UNDISTURBED

Project No.: 19082
Date: 11/15/05
Remarks:
 TORVANE = 0.230 TSF

Client: URS Corporation
Project: U.S. Army Corps of Engineers
 Inner Harbor Navigational Canal
Source of Sample: B-4WG **Depth:** 5.0
Sample Number: 3

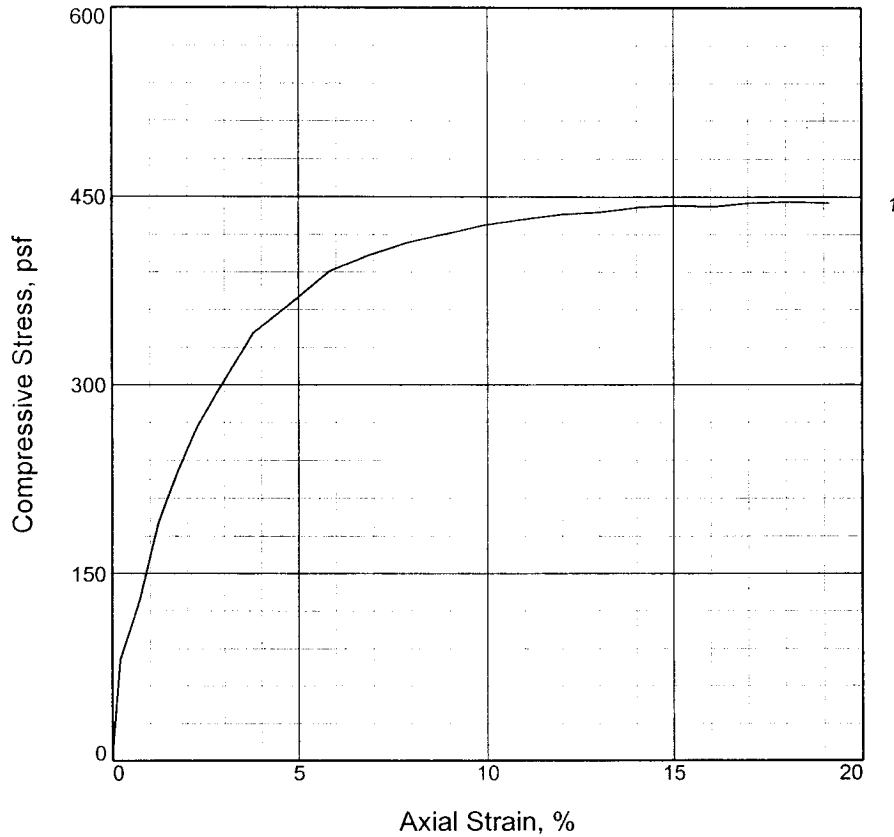
UNCONFINED COMPRESSION TEST

EUSTIS ENGINEERING COMPANY, INC.

Figure _____

Tested By: RR Checked By: DP

UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	443.0			
Undrained shear strength, psf	221.5			
Failure strain, %	15.1			
Strain rate, in./min.	0.059			
Water content, %	70.9			
Wet density, pcf	95.8			
Dry density, pcf	56.0			
Saturation, %	95.3			
Void ratio	2.0075			
Specimen diameter, in.	1.388			
Specimen height, in.	2.930			
Height/diameter ratio	2.11			

Description: VSO GR CH3 W/ ARS SM, TR-WD

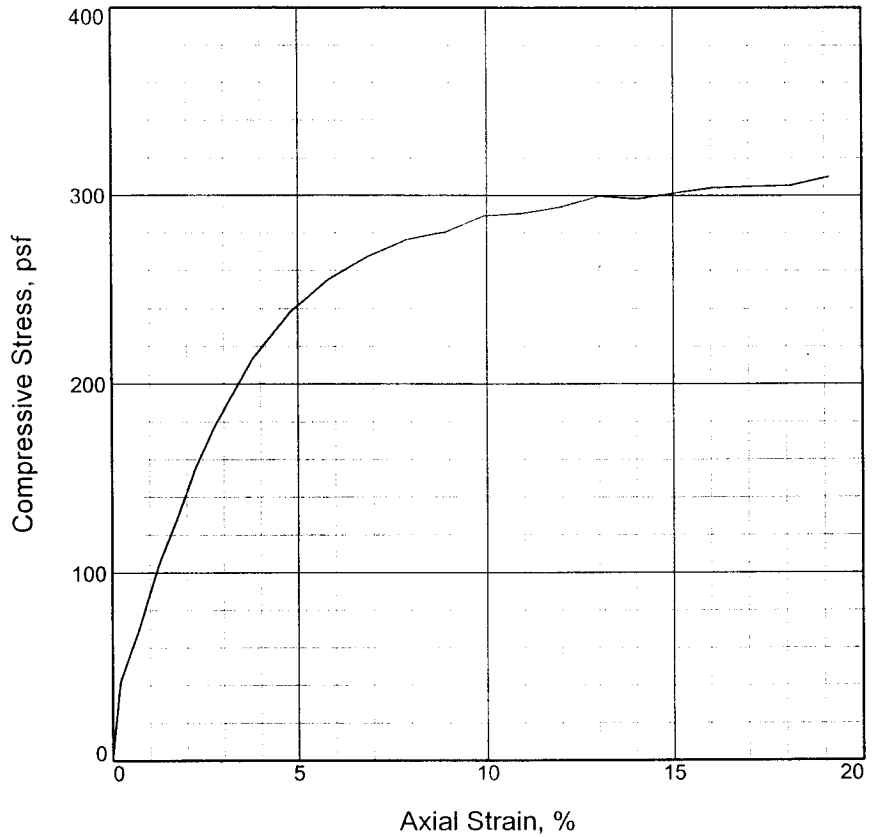
LL = PL = PI = Assumed GS= 2.7 Type: UNDISTURBED

<p>Project No.: 19082 Date: 11/09/05 Remarks: TORVANE = 0.150 TSF</p>	<p>Client: URS Corporation Project: U.S. Army Corps of Engineers Inner Harbor Navigational Canal Source of Sample: B-4WG Depth: 10.0 Sample Number: 5</p>
<p>UNCONFINED COMPRESSION TEST</p> <p>EUSTIS ENGINEERING COMPANY, INC.</p>	

Figure 1

Tested By: LM Checked By: DP

UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	299.4			
Undrained shear strength, psf	149.7			
Failure strain, %	13.0			
Strain rate, in./min.	N/A			
Water content, %	75.9			
Wet density, pcf	93.9			
Dry density, pcf	53.4			
Saturation, %	94.3			
Void ratio	2.2061			
Specimen diameter, in.	1.388			
Specimen height, in.	2.930			
Height/diameter ratio	2.11			

Description: VSO GR CH4 W/ TR-WD

LL =	PL =	PI =	Assumed GS= 2.74	Type: UNDISTURBED
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Project No.: 19082
Date: 11/09/05
Remarks:
 TORVANE = 0.170 TSF

Figure 1

Client: URS Corporation

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

Source of Sample: B-4WG **Depth:** 20.0

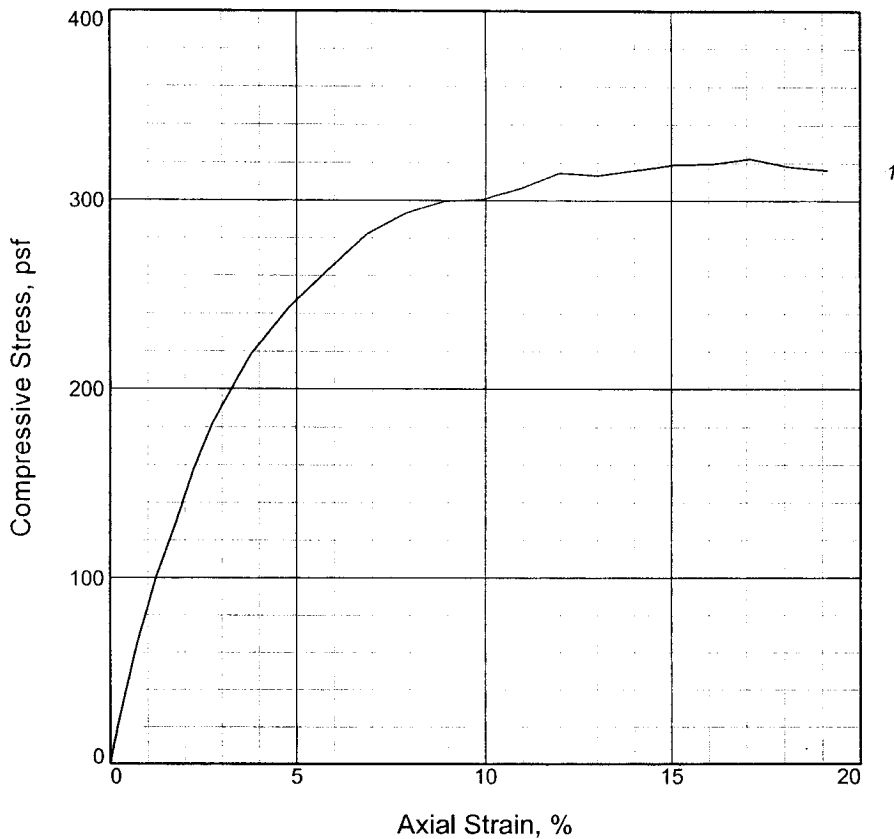
Sample Number: 9

UNCONFINED COMPRESSION TEST

EUSTIS ENGINEERING COMPANY, INC.

Tested By: LM **Checked By:** DP

UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	314.4			
Undrained shear strength, psf	157.2			
Failure strain, %	12.0			
Strain rate, in./min.	0.059			
Water content, %	58.7			
Wet density, pcf	99.5			
Dry density, pcf	62.7			
Saturation, %	93.1			
Void ratio	1.7269			
Specimen diameter, in.	1.388			
Specimen height, in.	2.930			
Height/diameter ratio	2.11			

Description: VSO CH4 W/ ARS ML

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

Project No.: 19082

Date: 11/09/05

Remarks:
TORVANE = 0.200 TSF

Client: URS Corporation

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

Source of Sample: B-4WG **Depth:** 25.0

Sample Number: 11

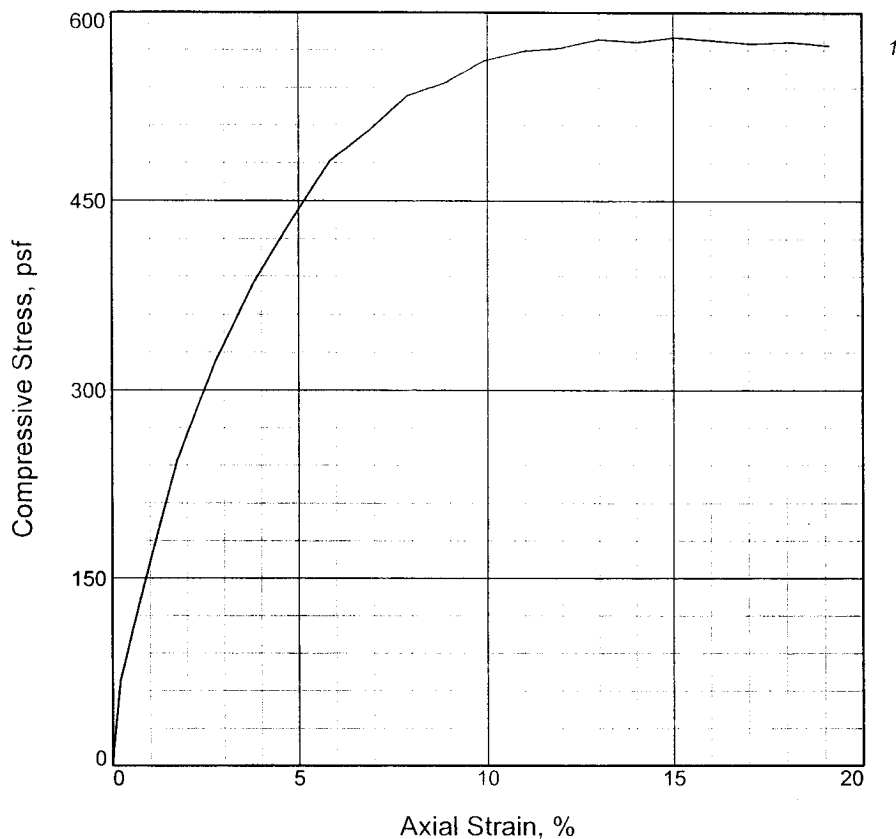
UNCONFINED COMPRESSION TEST

EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: ZH Checked By: DP

UNCONFINED COMPRESSION TEST



Specimen No.	1		
Unconfined strength, psf	578.5		
Undrained shear strength, psf	289.2		
Failure strain, %	13.0		
Strain rate, in./min.	0.059		
Water content, %	54.1		
Wet density, pcf	101.4		
Dry density, pcf	65.8		
Saturation, %	92.7		
Void ratio	1.5978		
Specimen diameter, in.	1.388		
Specimen height, in.	2.930		
Height/diameter ratio	2.11		

Description: SO GR CH4

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

Project No.: 19082

Date: 11/09/05

Remarks:

TORVANE = 0.200 TSF

Client: URS Corporation

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

Source of Sample: B-4WG **Depth:** 30.0

Sample Number: 13

UNCONFINED COMPRESSION TEST

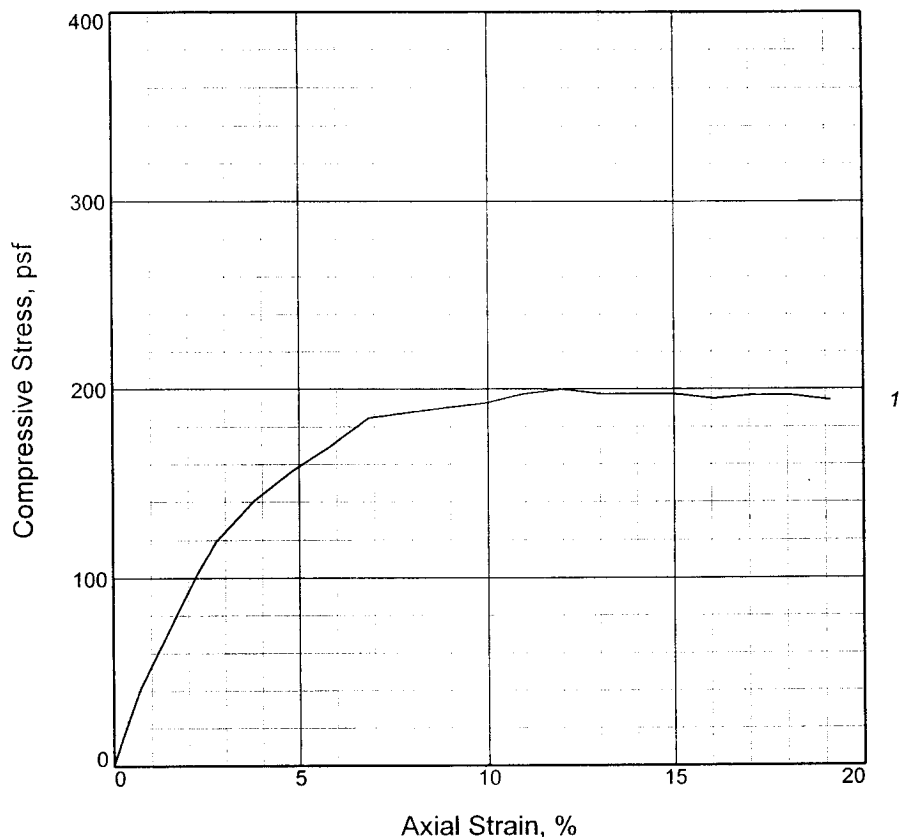
EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: LM

Checked By: DP

UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	199.7			
Undrained shear strength, psf	99.8			
Failure strain, %	12.0			
Strain rate, in./min.	0.059			
Water content, %	65.4			
Wet density, pcf	96.9			
Dry density, pcf	58.6			
Saturation, %	93.3			
Void ratio	1.9200			
Specimen diameter, in.	1.388			
Specimen height, in.	2.930			
Height/diameter ratio	2.11			

Description: VSO GR CH4 W/ SL

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

Project No.: 19082
Date: 11/09/05
Remarks:
 TORVANE = 0.100 TSF

Client: URS Corporation
Project: U.S. Army Corps of Engineers
 Inner Harbor Navigational Canal
Source of Sample: B-4WG **Depth:** 35.0
Sample Number: 15

UNCONFINED COMPRESSION TEST

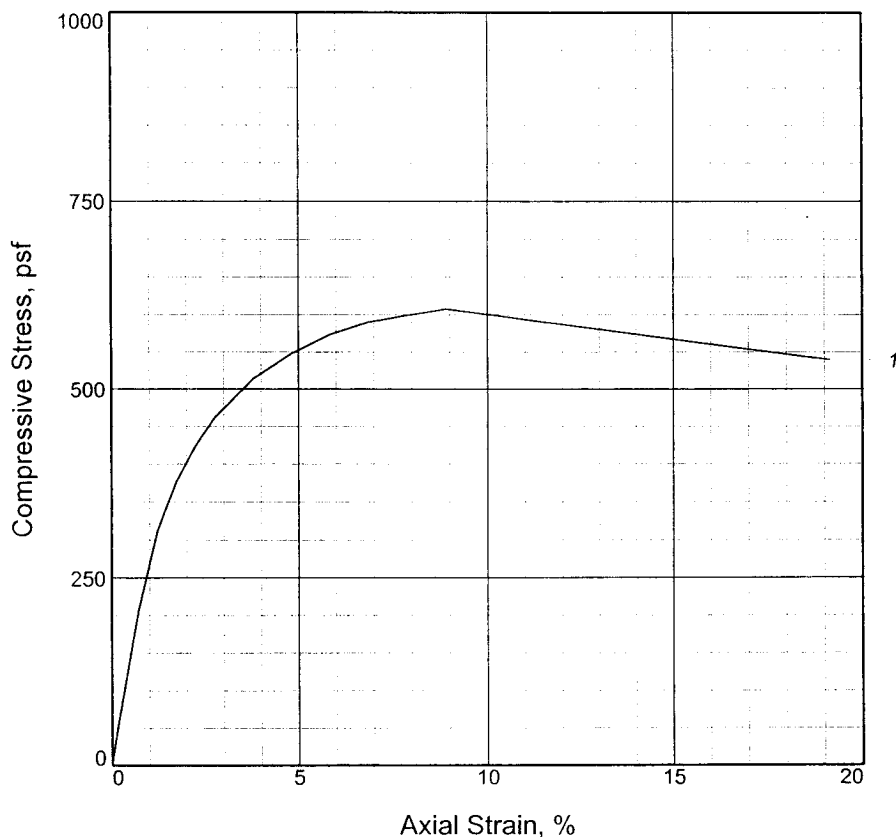
EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: ZH

Checked By: DP

UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	607.5			
Undrained shear strength, psf	303.8			
Failure strain, %	8.9			
Strain rate, in./min.	0.058			
Water content, %	69.5			
Wet density, pcf	96.8			
Dry density, pcf	57.1			
Saturation, %	95.4			
Void ratio	1.9950			
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: 11/09/05

Remarks:

TORVANE = 0.250 TSF

Client: URS Corporation

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

Source of Sample: B-4WG **Depth:** 40.0

Sample Number: 17

UNCONFINED COMPRESSION TEST

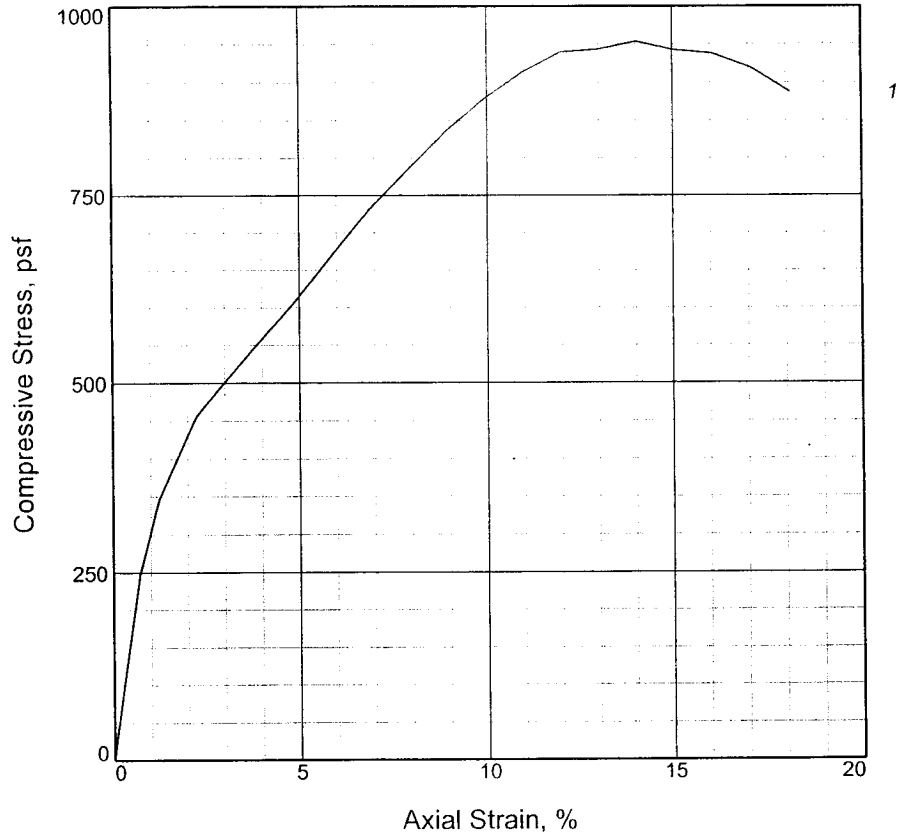
EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: ZH

Checked By: DP

UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	953.3			
Undrained shear strength, psf	476.6			
Failure strain, %	14.0			
Strain rate, in./min.	0.058			
Water content, %	54.9			
Wet density, pcf	102.1			
Dry density, pcf	65.9			
Saturation, %	94.3			
Void ratio	1.5951			
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: 11/09/05
Remarks:
 TORVANE = 0.250 TSF

Figure 1

Client: URS Corporation

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

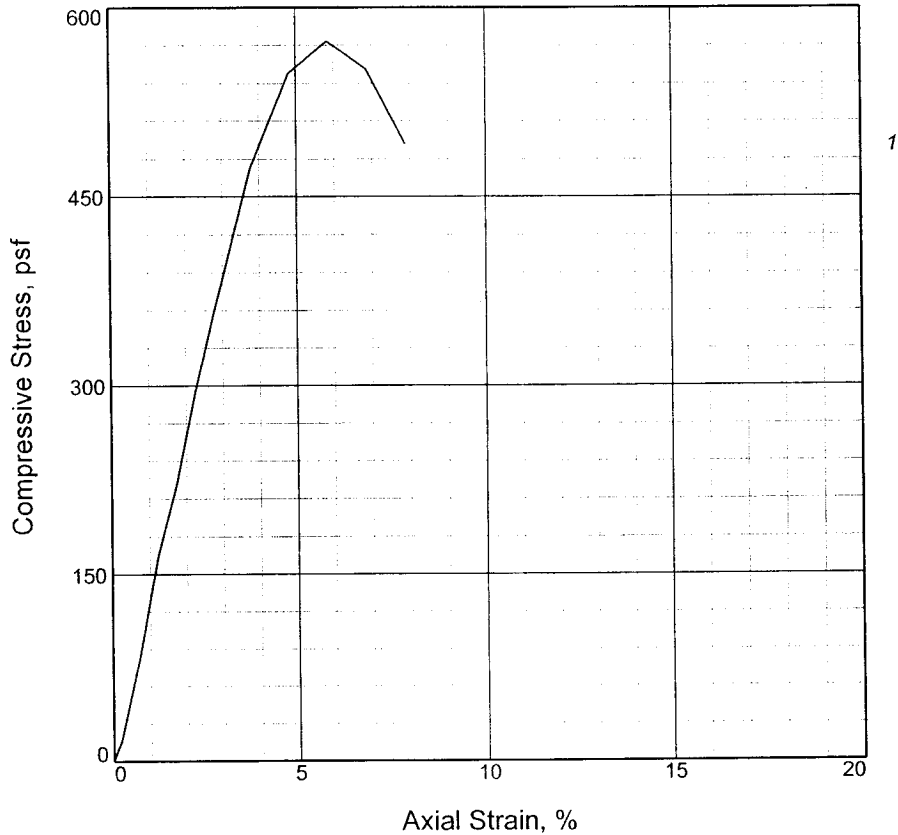
Source of Sample: B-4WG **Depth:** 45.0
Sample Number: 19

UNCONFINED COMPRESSION TEST

EUSTIS ENGINEERING COMPANY, INC.

Tested By: ZH **Checked By:** DP

UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	573.1			
Undrained shear strength, psf	286.5			
Failure strain, %	5.8			
Strain rate, in./min.	0.058			
Water content, %	39.3			
Wet density, pcf	109.3			
Dry density, pcf	78.5			
Saturation, %	92.4			
Void ratio	1.1471			
Specimen diameter, in.	1.388			
Specimen height, in.	2.930			
Height/diameter ratio	2.11			

Description: SO GR CL5 W/ SIF

LL = PL = PI = Assumed GS= 2.7 Type: UNDISTURBED

Project No.: 19082
Date: 11/09/05
Remarks:
 TORVANE = 0.250 TSF

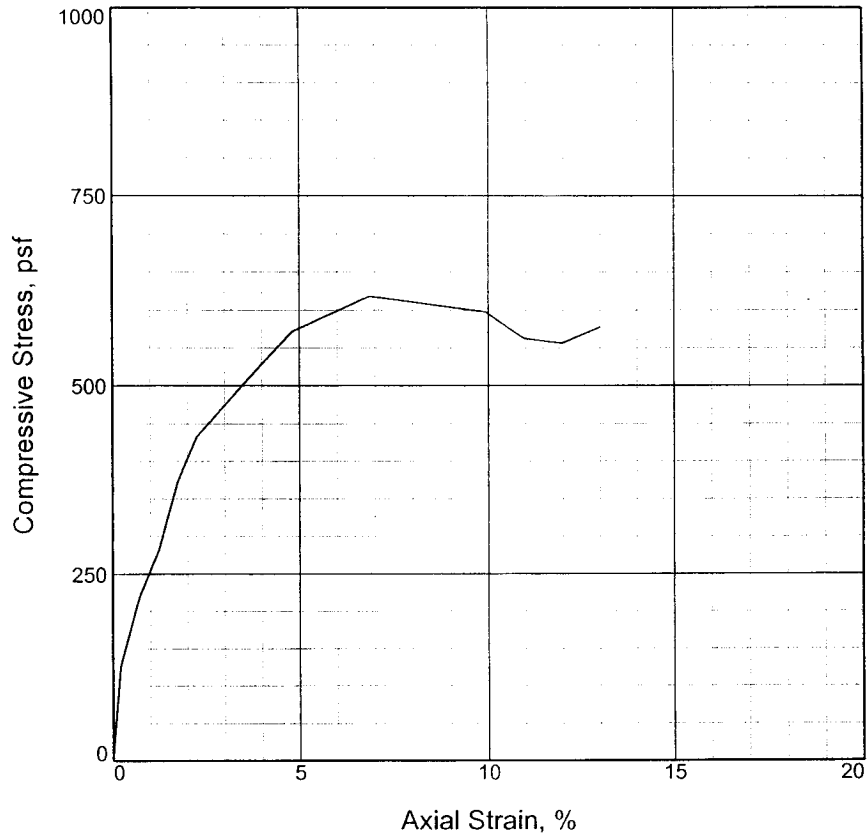
Client: URS Corporation
Project: U.S. Army Corps of Engineers
 Inner Harbor Navigational Canal
Source of Sample: B-4WG **Depth:** 50.0
Sample Number: 21

Figure 1

UNCONFINED COMPRESSION TEST
EUSTIS ENGINEERING COMPANY, INC.

Tested By: ZH Checked By: DP

UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	617.8			
Undrained shear strength, psf	308.9			
Failure strain, %	6.9			
Strain rate, in./min.	0.058			
Water content, %	34.0			
Wet density, pcf	113.8			
Dry density, pcf	85.0			
Saturation, %	93.3			
Void ratio	0.9836			
Specimen diameter, in.	1.388			
Specimen height, in.	2.930			
Height/diameter ratio	2.11			

Description: SO GR CH2

LL = PL = PI = Assumed GS= 2.7 Type: UNDISTURBED

Project No.: 19082
Date: 11/09/05
Remarks:
 TORVANE = 0.280 TSF

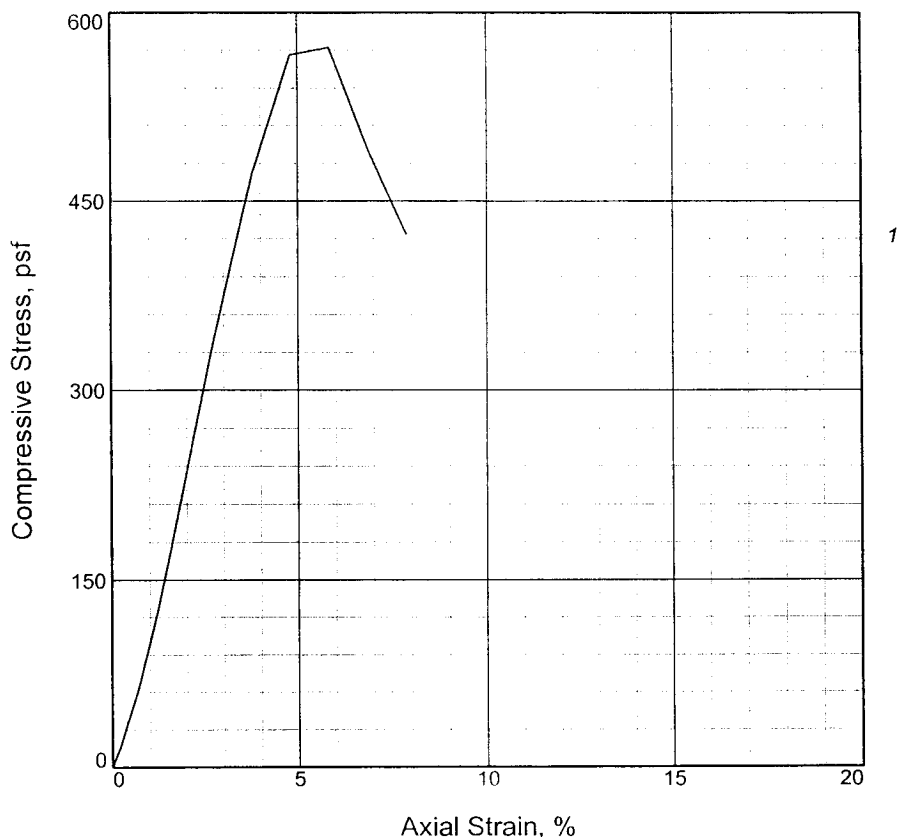
Client: URS Corporation
Project: U.S. Army Corps of Engineers
 Inner Harbor Navigational Canal
Source of Sample: B-4WG **Depth:** 55.0
Sample Number: 23

UNCONFINED COMPRESSION TEST
EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: ZH **Checked By:** DP

UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	572.1			
Undrained shear strength, psf	286.1			
Failure strain, %	5.8			
Strain rate, in./min.	0.059			
Water content, %	30.7			
Wet density, pcf	111.9			
Dry density, pcf	85.6			
Saturation, %	85.7			
Void ratio	0.9686			
Specimen diameter, in.	1.388			
Specimen height, in.	2.930			
Height/diameter ratio	2.11			

Description: SO GR CL3 W/ WD

LL = PL = PI = Assumed GS= 2.7 Type: UNDISTURBED

Project No.: 19082
Date: 11/09/05
Remarks:
 TORVANE = 0.200 TSF

Client: URS Corporation
Project: U.S. Army Corps of Engineers
 Inner Harbor Navigational Canal
Source of Sample: B-4WG **Depth:** 60.0
Sample Number: 25

UNCONFINED COMPRESSION TEST

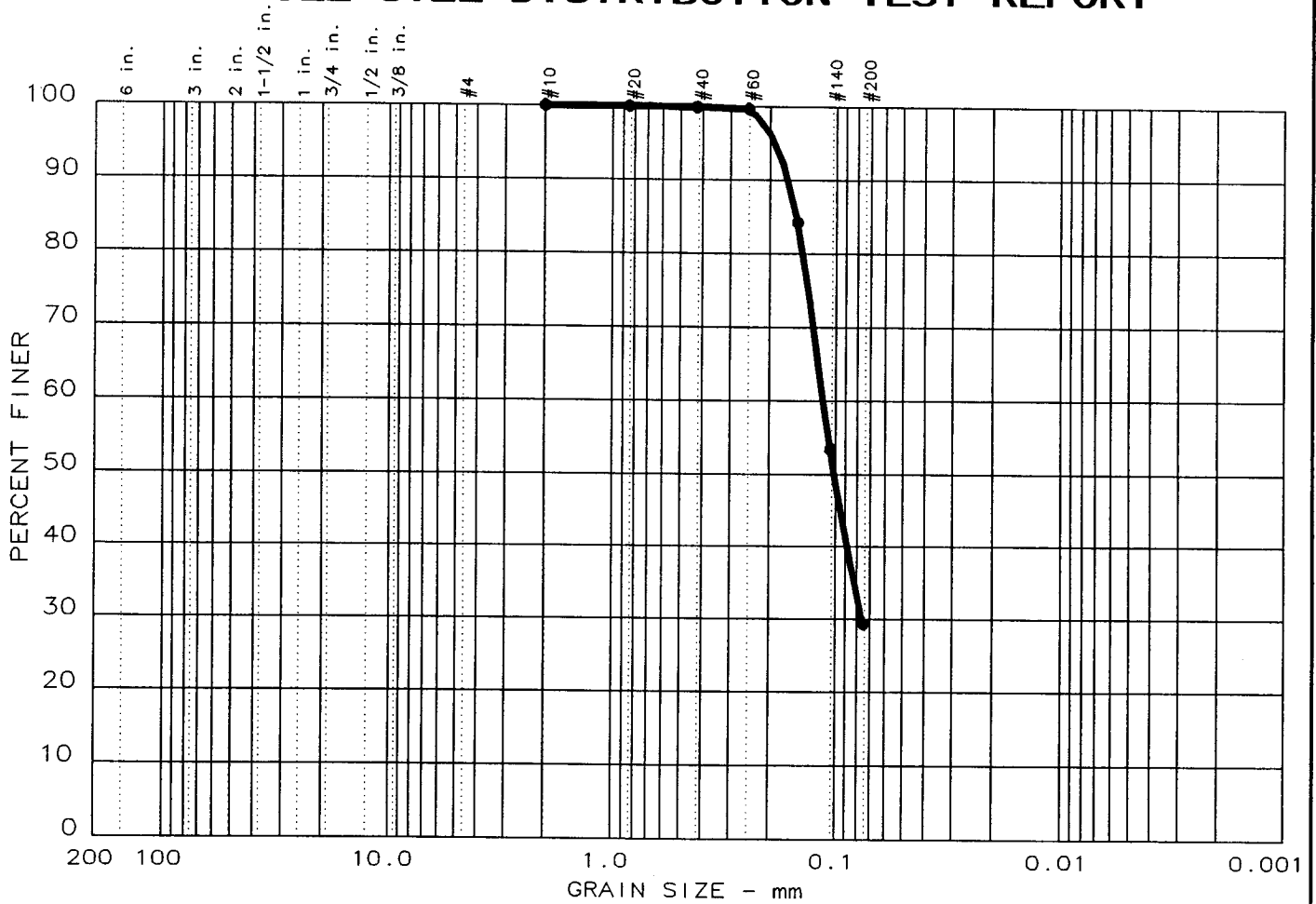
EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: ZH

Checked By: DP

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.0	70.7	29.3		SM1		

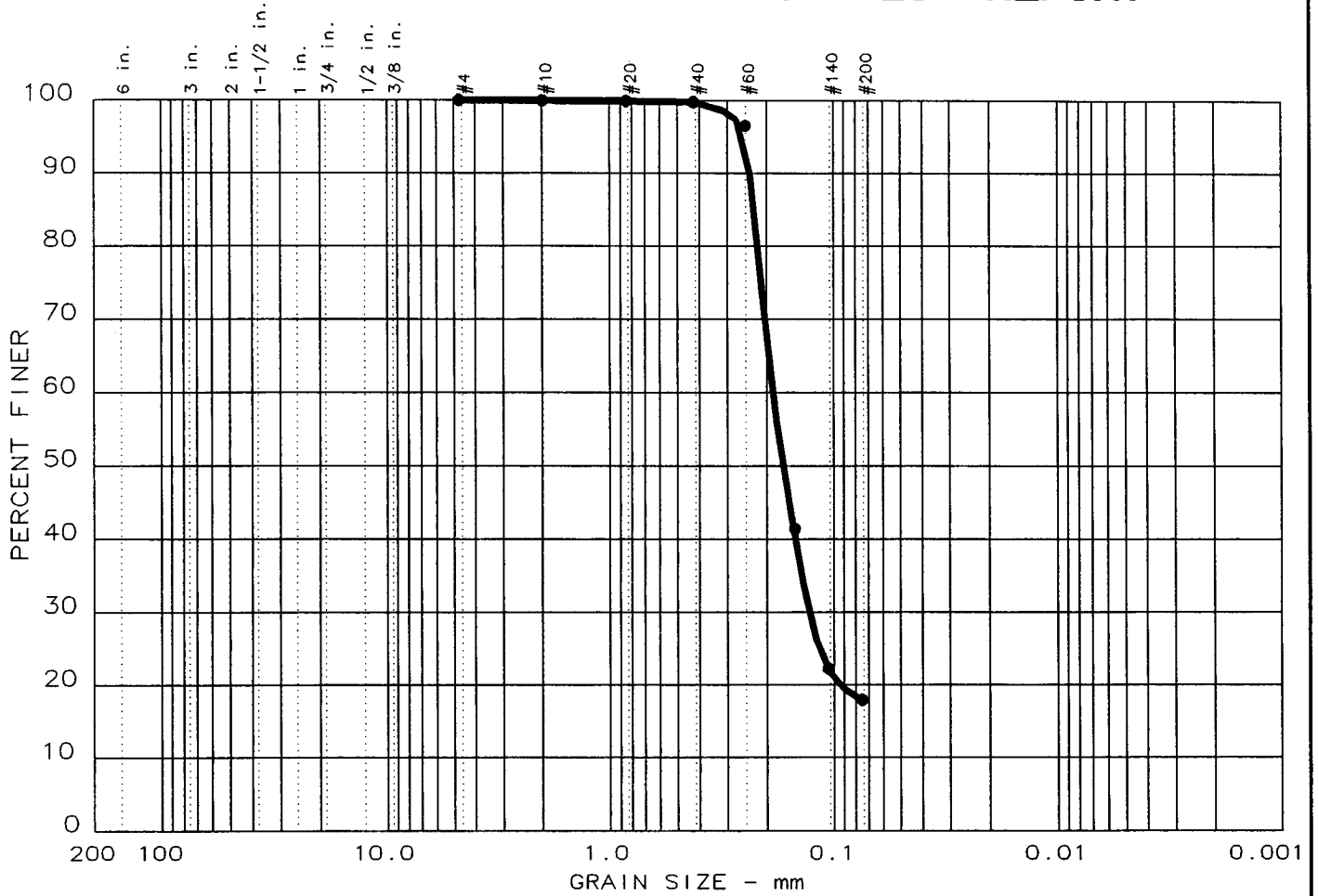
SIEVE inches size	PERCENT FINER		
	●		
X	GRAIN SIZE		
D ₆₀	0.11		
D ₃₀	0.08		
D ₁₀			
X	COEFFICIENTS		
C _c			
C _u			

SIEVE number size	PERCENT FINER		
	●		
10	100.0		
20	100.0		
40	99.9		
60	99.7		
100	84.3		
140	53.4		
200	29.3		

Sample information:
 ● Boring 4WG, Sample 27
 Gr SM1

Remarks:
 Sample depth 66.0'

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.0	82.1	17.9		SM1-s		

SIEVE inches size	PERCENT FINER		
	●		
X	GRAIN SIZE		
D ₆₀	0.19		
D ₃₀	0.13		
D ₁₀			
X	COEFFICIENTS		
C _c			
C _u			

SIEVE number size	PERCENT FINER		
	●		
4	100.0		
10	99.9		
20	99.9		
40	99.8		
60	96.5		
100	41.4		
140	22.2		
200	17.9		

Sample information:
 ● Boring 4WG, Sample 32
 Gr SM1-s

Remarks:
 Sample depth 78.5'

**Eustis
Engineering
Company, Inc.**

Project No.: 19082
 Project: USACE
 Date: 11-17-05
 Data Sheet No. _____