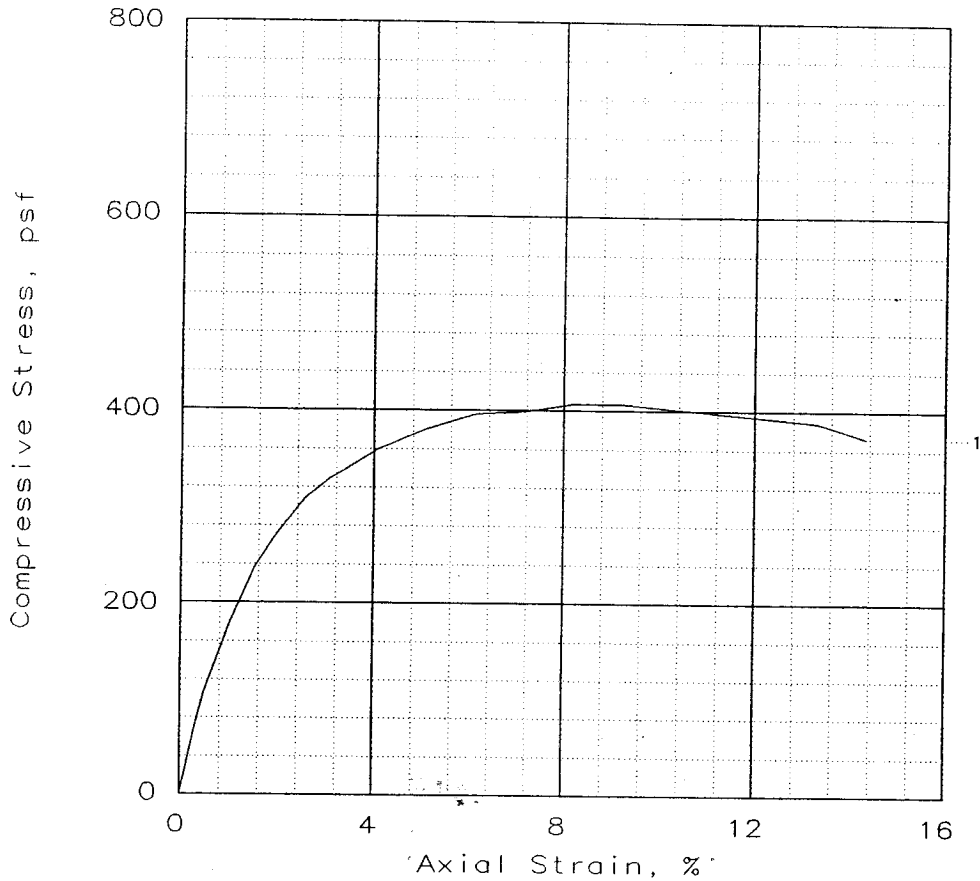


# UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	407			
Undrained shear strength, psf	203			
Failure strain, %	9.2			
Strain rate, in/min	0.0580			
Water content, %	87.6			
Wet density, pcf	92.2			
Dry density, pcf	49.1			
Saturation, %	96.8			
Void ratio	2.4809			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: VSO GR CH4 W/ O, WD, RT

GS= 2.74

Type: UNDISTURBED

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

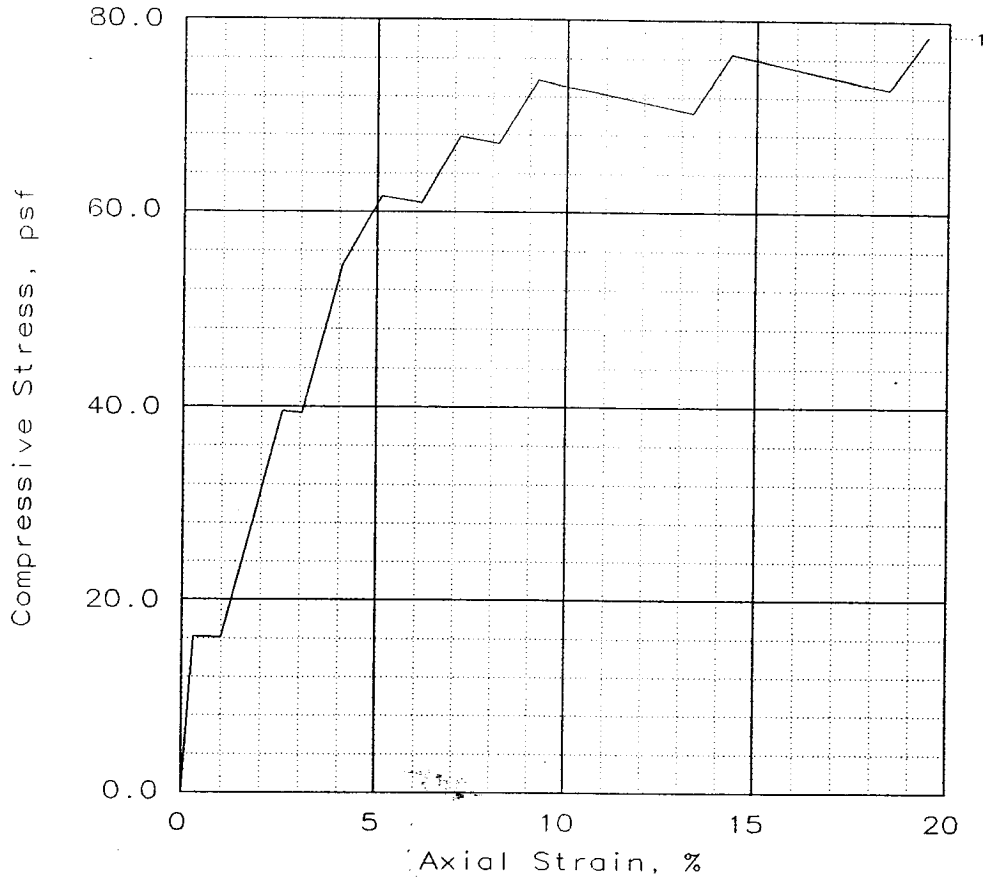
Client: URS Corporation  
 Project: U.S. Army Corps of Engineers  
 Inner Harbor Navigational Canal  
 Location: Boring 1WG,  
 Sample 8, Depth 15.0'

UNCONFINED COMPRESSION TEST

**Eustis Engineering Company, Inc.**

Fig. No.: \_\_\_\_\_

## UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	39.6			
Undrained shear strength, psf	19.8			
Failure strain, %	2.6			
Strain rate, in/min	0.0594			
Water content, %	113.3			
Wet density, pcf	82.7			
Dry density, pcf	38.8			
Saturation, %	91.9			
Void ratio	3.2651			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: VSO GR & DGR CHOB W/ WD, SIF

GS= 2.65      Type: UNDISTURBED

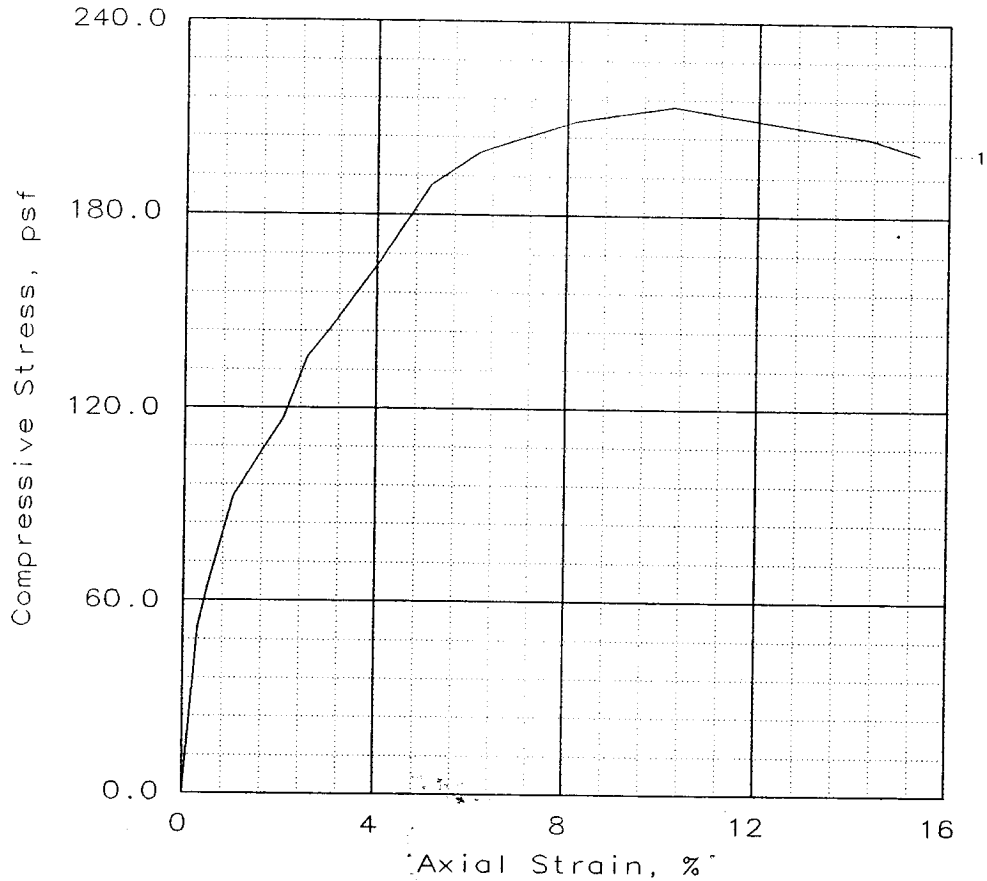
Project No.: 19082  
 Date: 11-09-05  
 Remarks:

Fig. No.: \_\_\_\_\_

Client: URS Corporation  
 Project: U.S. Army Corps of Engineers  
 Inner Harbor Navigational Canal  
 Location: Boring 1WG,  
 Sample 12, Depth 25.0'

**UNCONFINED COMPRESSION TEST**  
**Eustis Engineering Company, Inc.**

## UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	213.8			
Undrained shear strength, psf	106.9			
Failure strain, %	10.2			
Strain rate, in/min	0.0580			
Water content, %	80.1			
Wet density, pcf	94.1			
Dry density, pcf	52.2			
Saturation, %	96.5			
Void ratio	2.2738			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: VS0 GR CH4 W/ SL

GS= 2.74      Type: UNDISTURBED

Project No.: 19082  
 Date: 11-09-05  
 Remarks:  
 TORVANE = 0.180 TSF

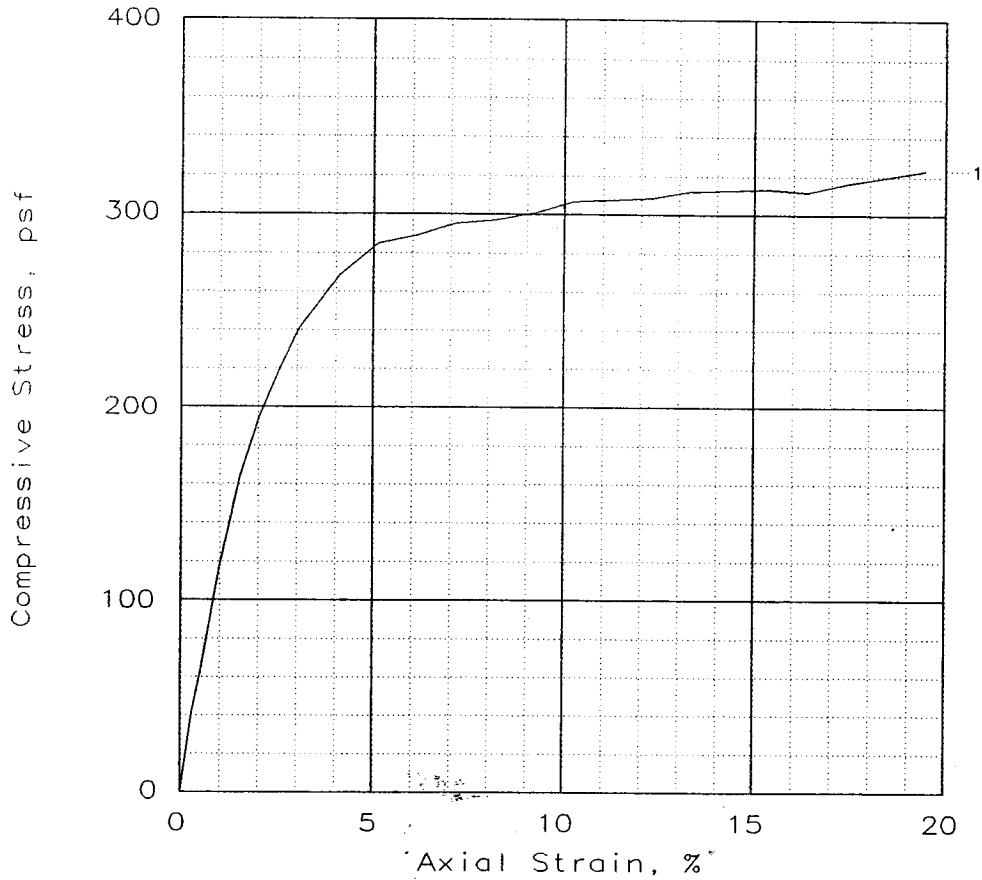
Fig. No.: \_\_\_\_\_

Client: URS Corporation

Project: U.S. Army Corps of Engineers  
 Inner Harbor Navigational Canal  
 Location: Boring 1WG,  
 Sample 14, Depth 30.0'

**UNCONFINED COMPRESSION TEST**  
**Eustis Engineering Company, Inc.**

## UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	323			
Undrained shear strength, psf	162			
Failure strain, %	19.5			
Strain rate, in/min	0.0580			
Water content, %	86.9			
Wet density, pcf	93.1			
Dry density, pcf	49.8			
Saturation, %	97.8			
Void ratio	2.4337			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: VSO GR CH4 W/ TR-WD

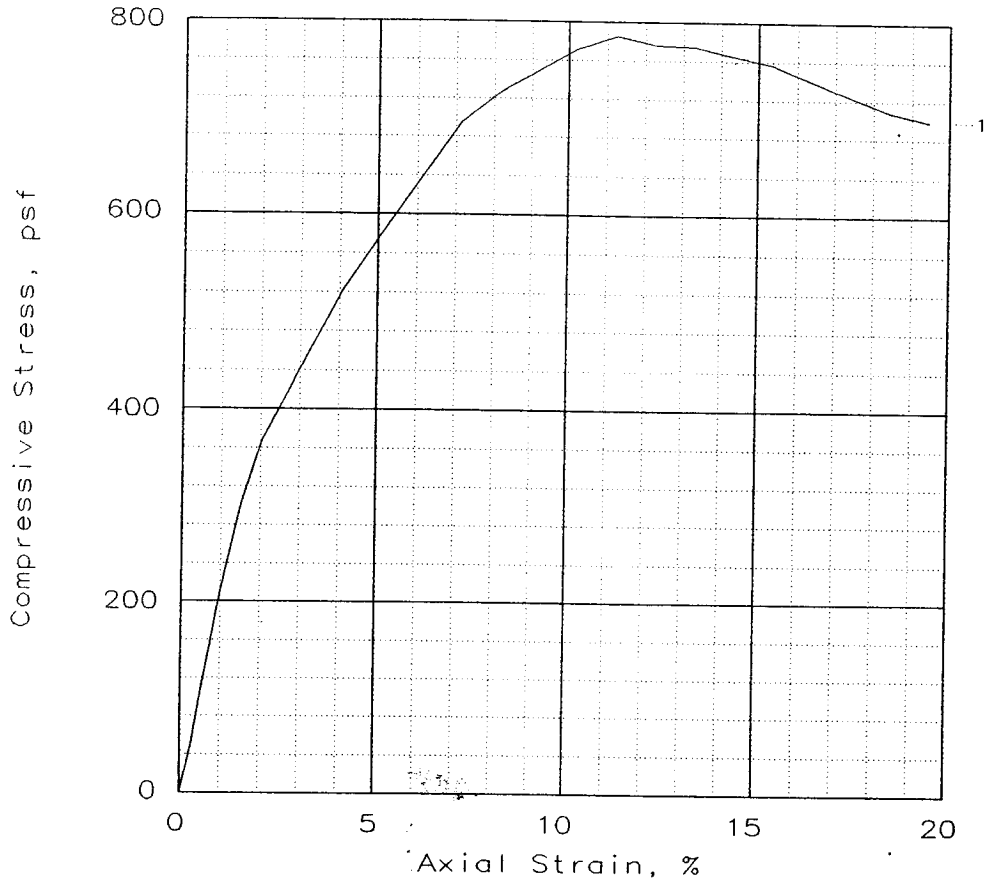
GS= 2.74      Type: UNDISTURBED

Project No.: 19082  
 Date: 11-09-05  
 Remarks:  
 TORVANE = 0.180 TSF  
 Fig. No.: \_\_\_\_\_

Client: URS Corporation  
 Project: U.S. Army Corps of Engineers  
 Inner Harbor Navigational Canal  
 Location: Boring 1WG,  
 Sample 16, Depth 35.0'

**UNCONFINED COMPRESSION TEST**  
**Eustis Engineering Company, Inc.**

## UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	785			
Undrained shear strength, psf	393			
Failure strain, %	11.3			
Strain rate, in/min	0.0579			
Water content, %	65.8			
Wet density, pcf	97.6			
Dry density, pcf	58.9			
Saturation, %	95.0			
Void ratio	1.8837			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: SO GR CH4 W/ ARS ML

GS= 2.72

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

Location: Boring 1WG,

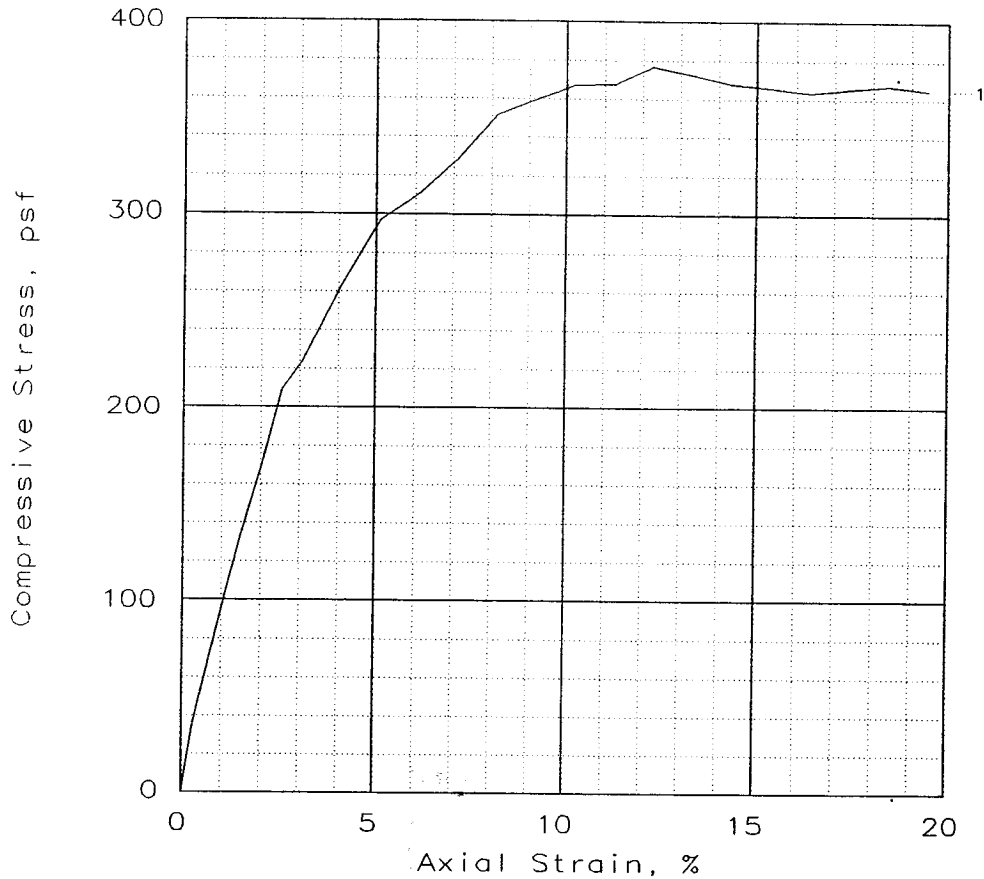
Sample 18, Depth 40.0'

UNCONFINED COMPRESSION TEST

**Eustis Engineering Company, Inc.**

Fig. No.: \_\_\_\_\_

## UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	377			
Undrained shear strength, psf	188			
Failure strain, %	12.3			
Strain rate, in/min	0.0580			
Water content, %	61.6			
Wet density, pcf	99.1			
Dry density, pcf	61.3			
Saturation, %	94.8			
Void ratio	1.7683			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

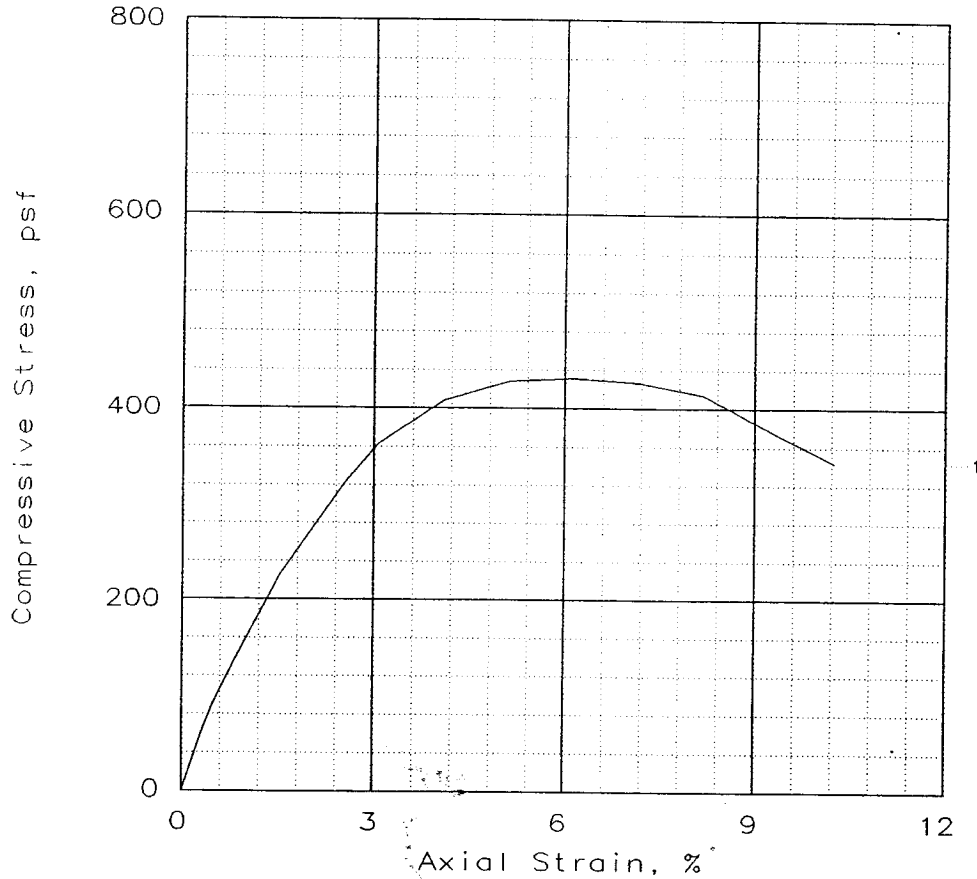
Description: VSO GR CH4 W/ LNS & ARS ML

	GS= 2.72	Type: UNDISTURBED
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Project No.: 19082  
 Date: 11-09-05  
 Remarks:  
 TORVANE = 0.110 TSF  
 Fig. No.: \_\_\_\_\_

Client: URS Corporation  
 Project: U.S. Army Corps of Engineers  
 Inner Harbor Navigational Canal  
 Location: Boring 1WG,  
 Sample 20, Depth 45.0'  
**UNCONFINED COMPRESSION TEST**  
**Eustis Engineering Company, Inc.**

## UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	431			
Undrained shear strength, psf	216			
Failure strain, %	6.1			
Strain rate, in/min	0.0579			
Water content, %	30.8			
Wet density, pcf	115.3			
Dry density, pcf	88.1			
Saturation, %	91.0			
Void ratio	0.9123			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: VS0 GR CL5 W/ ARS CH, SIF, WD

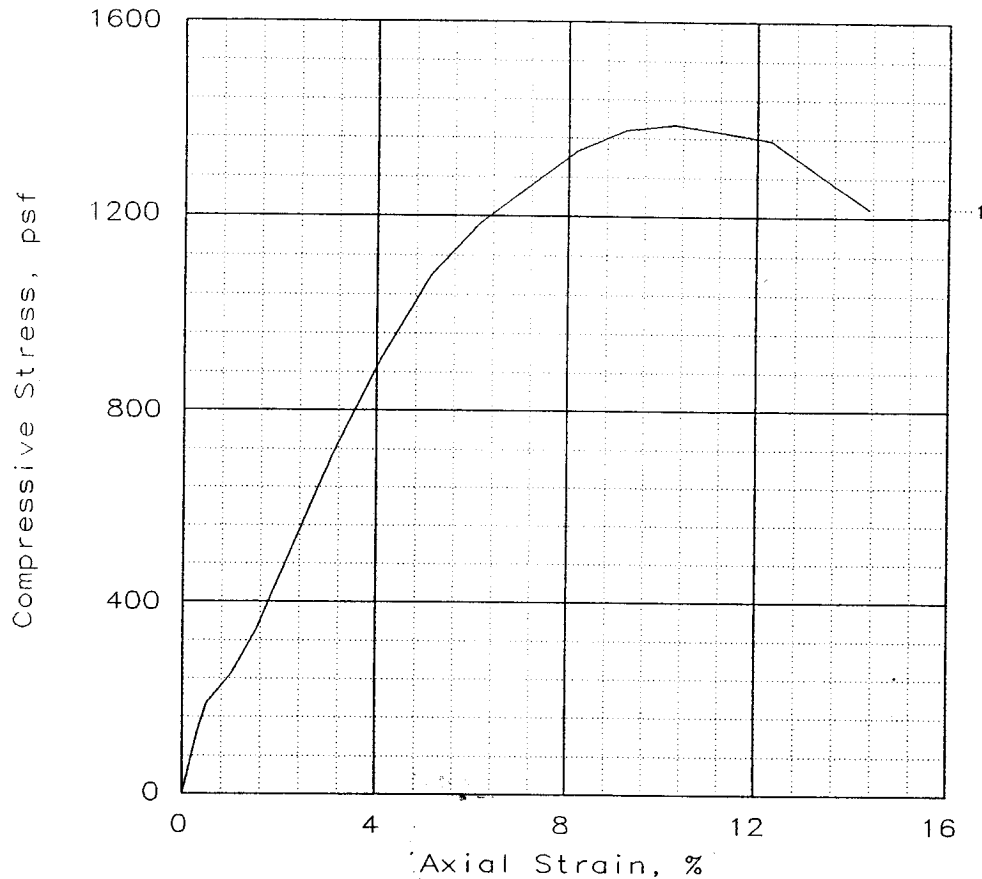
	GS= 2.7	Type: UNDISTURBED
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Project No.: 19082  
 Date: 11-09-05  
 Remarks:  
 TORVANE = 0.200 TSF  
 Fig. No.: \_\_\_\_\_

Client: URS Corporation  
 Project: U.S. Army Corps of Engineers  
 Inner Harbor Navigational Canal  
 Location: Boring 1WG,  
 Sample 22, Depth 50.0'

**UNCONFINED COMPRESSION TEST**  
**Eustis Engineering Company, Inc.**

## UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	1389			
Undrained shear strength, psf	694			
Failure strain, %	10.2			
Strain rate, in/min	0.0583			
Water content, %	25.8			
Wet density, pcf	121.4			
Dry density, pcf	96.4			
Saturation, %	93.3			
Void ratio	0.7479			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: M GR & DGR CL6 W/ TR-WD

GS= 2.7

Type: UNDISTURBED

Project No.: 19082

Date: 11-09-05

Remarks:

TORVANE = 0.290 TSF

Client: URS Corporation

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

Location: Boring 1WG,  
Sample 32, Depth 75.0'

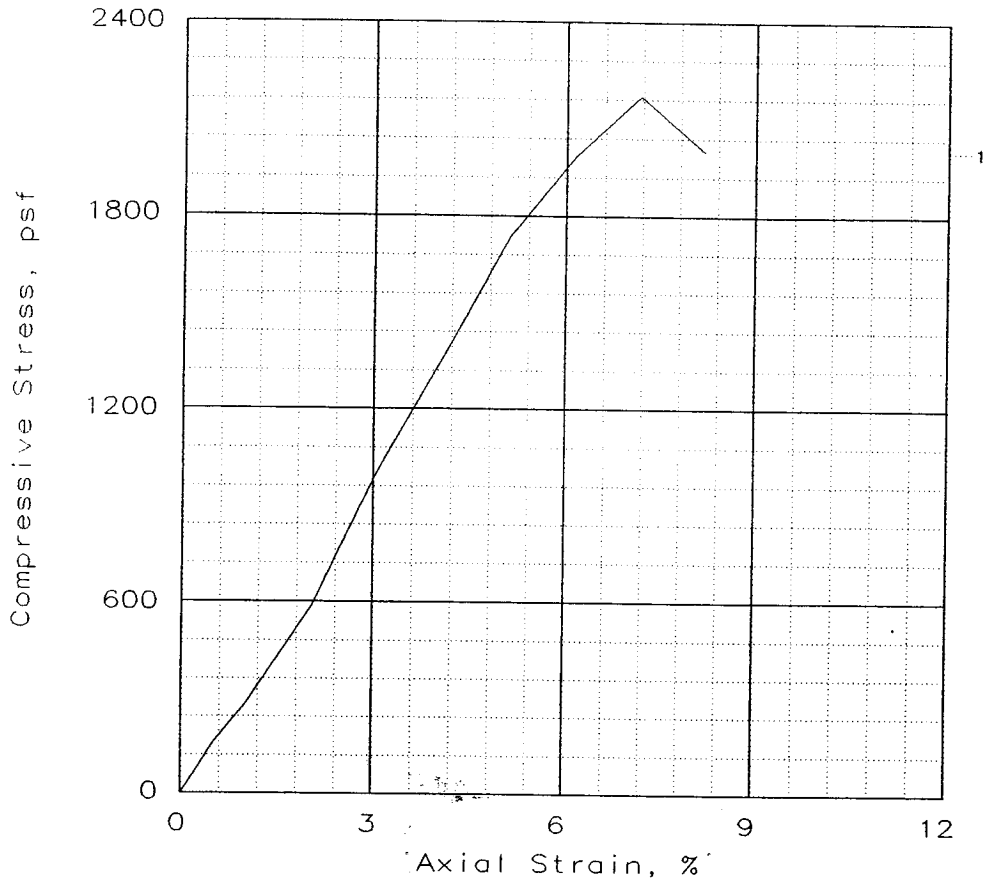
UNCONFINED COMPRESSION TEST

**Eustis Engineering Company, Inc.**

Fig. No.: \_\_\_\_\_



# UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1		
Unconfined strength, psf	2169		
Undrained shear strength, psf	1085		
Failure strain, %	7.2		
Strain rate, in/min	0.0583		
Water content, %	24.8		
Wet density, pcf	120.6		
Dry density, pcf	96.6		
Saturation, %	89.9		
Void ratio	0.7451		
Specimen diameter, in	1.39		
Specimen height, in	2.93		
Height/diameter ratio	2.11		

Description: ST GR CL6 W/ ARS CH

GS= 2.7

Type: UNDISTURBED

Project No.: 19082

Date: 11-09-05

Remarks:

TORVANE = 0.300 TSF

Client: URS Corporation

Project: U.S. Army Corps of Engineers

Inner Harbor Navigational Canal

Location: Boring 1WG,

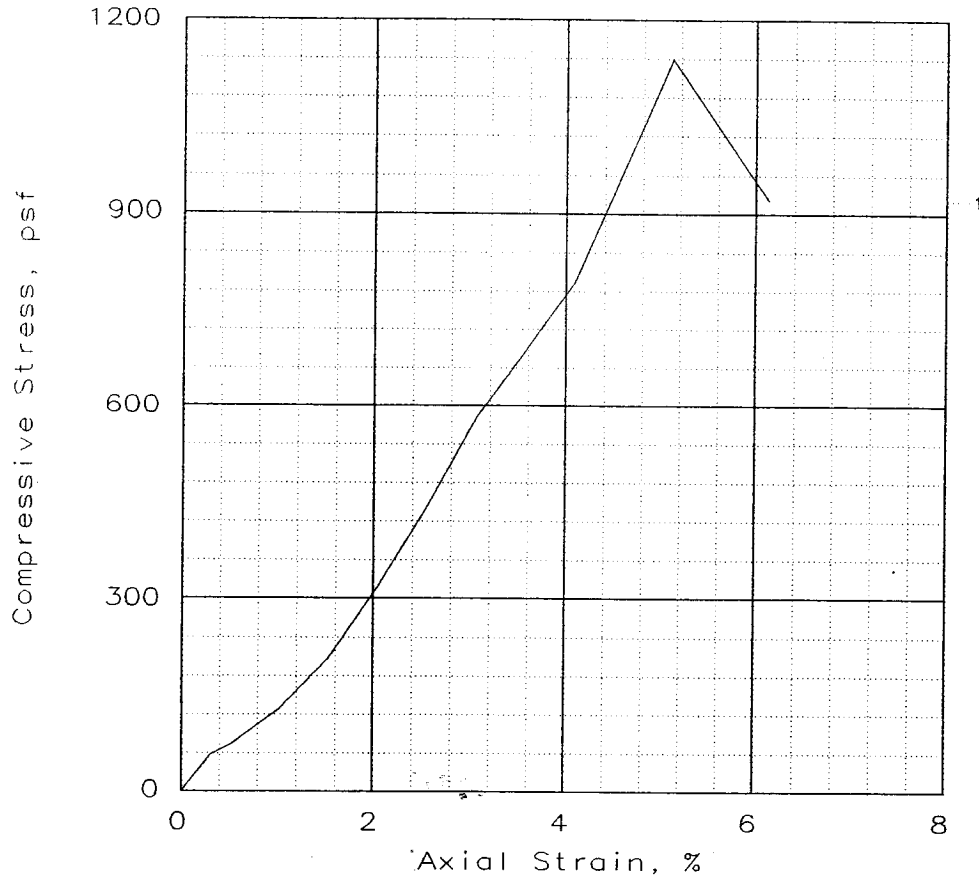
Sample 34, Depth 80.0'

UNCONFINED COMPRESSION TEST

**Eustis Engineering Company, Inc.**

Fig. No.: \_\_\_\_\_

## UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1		
Unconfined strength, psf	1140		
Undrained shear strength, psf	570		
Failure strain, %	5.1		
Strain rate, in/min	0.5830		
Water content, %	25.6		
Wet density, pcf	122.3		
Dry density, pcf	97.4		
Saturation, %	96.1		
Void ratio	0.7114		
Specimen diameter, in	1.39		
Specimen height, in	2.93		
Height/diameter ratio	2.11		

Description: M GR CL4 W/ ARS CH

GS= 2.67

Type: UNDISTURBED

Project No.: 19082

Date: 11-09-05

Remarks:

Client: URS Corporation

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

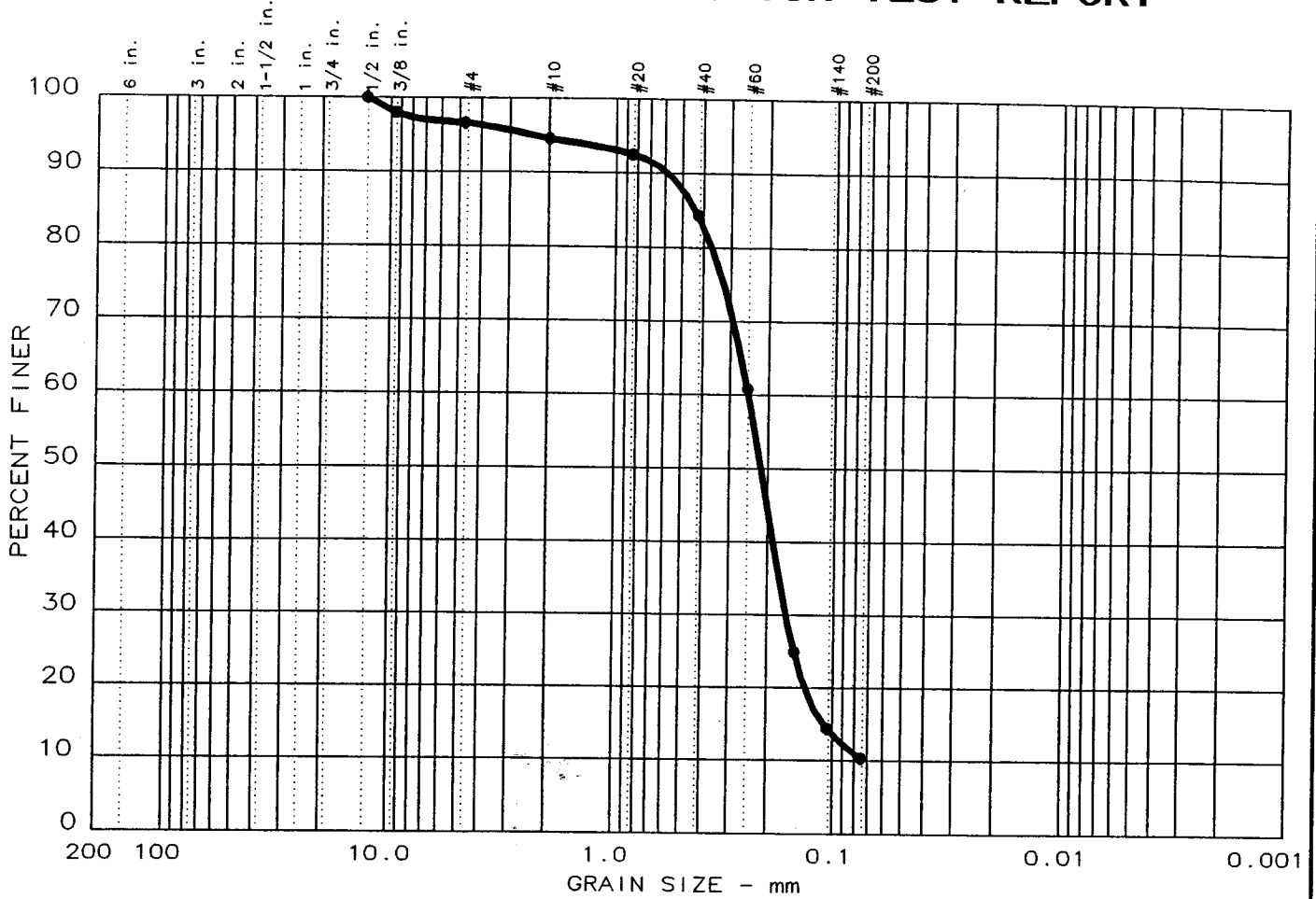
Location: Boring 1WG,  
Sample 36, Depth 85.0'

UNCONFINED COMPRESSION TEST

**Eustis Engineering Company, Inc.**

Fig. No.: \_\_\_\_\_

# PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	3.4	86.3	10.3		SM1-s		

SIEVE inches size	PERCENT FINER		
	●		
0.5	100.0		
0.375	98.0		
<del>GRAIN SIZE</del>			
D <sub>60</sub>	0.25		
D <sub>30</sub>	0.16		
D <sub>10</sub>			
<del>COEFFICIENTS</del>			
C <sub>c</sub>			
C <sub>u</sub>			

SIEVE number size	PERCENT FINER		
	●		
4	96.6		
10	94.5		
20	92.5		
40	84.3		
60	60.8		
100	24.9		
140	14.4		
200	10.3		

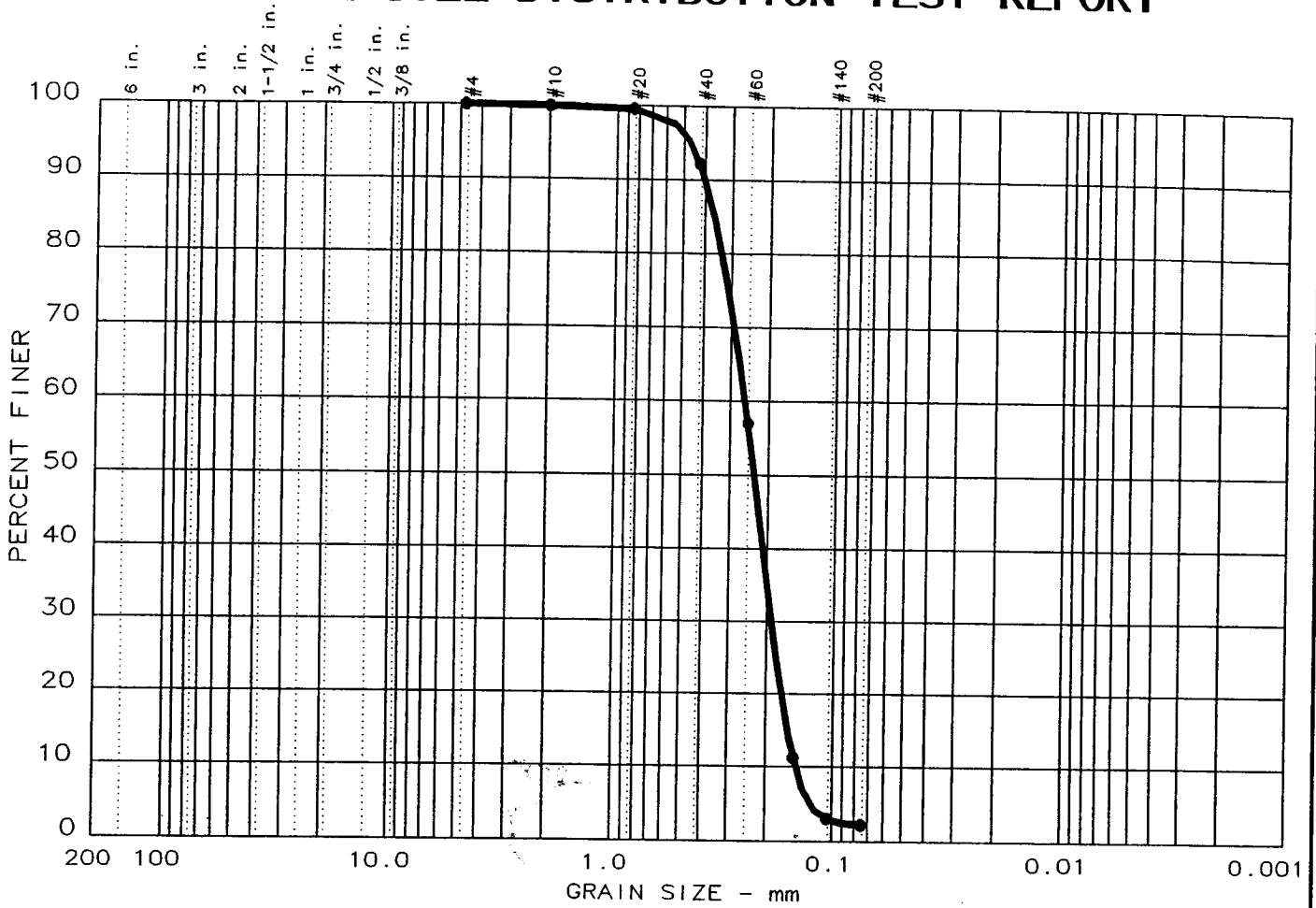
Sample information:  
 ● Boring 1WG, Sample 2  
 GR SM1-s W/ SIF

Remarks:  
 Sample depth 2.5'

**Eustis  
Engineering  
Company, Inc.**

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

# PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.0	97.8	2.2		SP		

SIEVE inches size	PERCENT FINER	
●		
GRAIN SIZE		
D <sub>60</sub>	0.26	
D <sub>30</sub>	0.19	
D <sub>10</sub>	0.14	
COEFFICIENTS		
C <sub>c</sub>	0.96	
C <sub>u</sub>	1.8	

SIEVE number size	PERCENT FINER	
●		
4	100.0	
10	99.9	
20	99.6	
40	92.2	
60	57.0	
100	11.2	
140	3.0	
200	2.2	

Sample information:  
 ● Boring 1WG, Sample 26  
 LGR SP

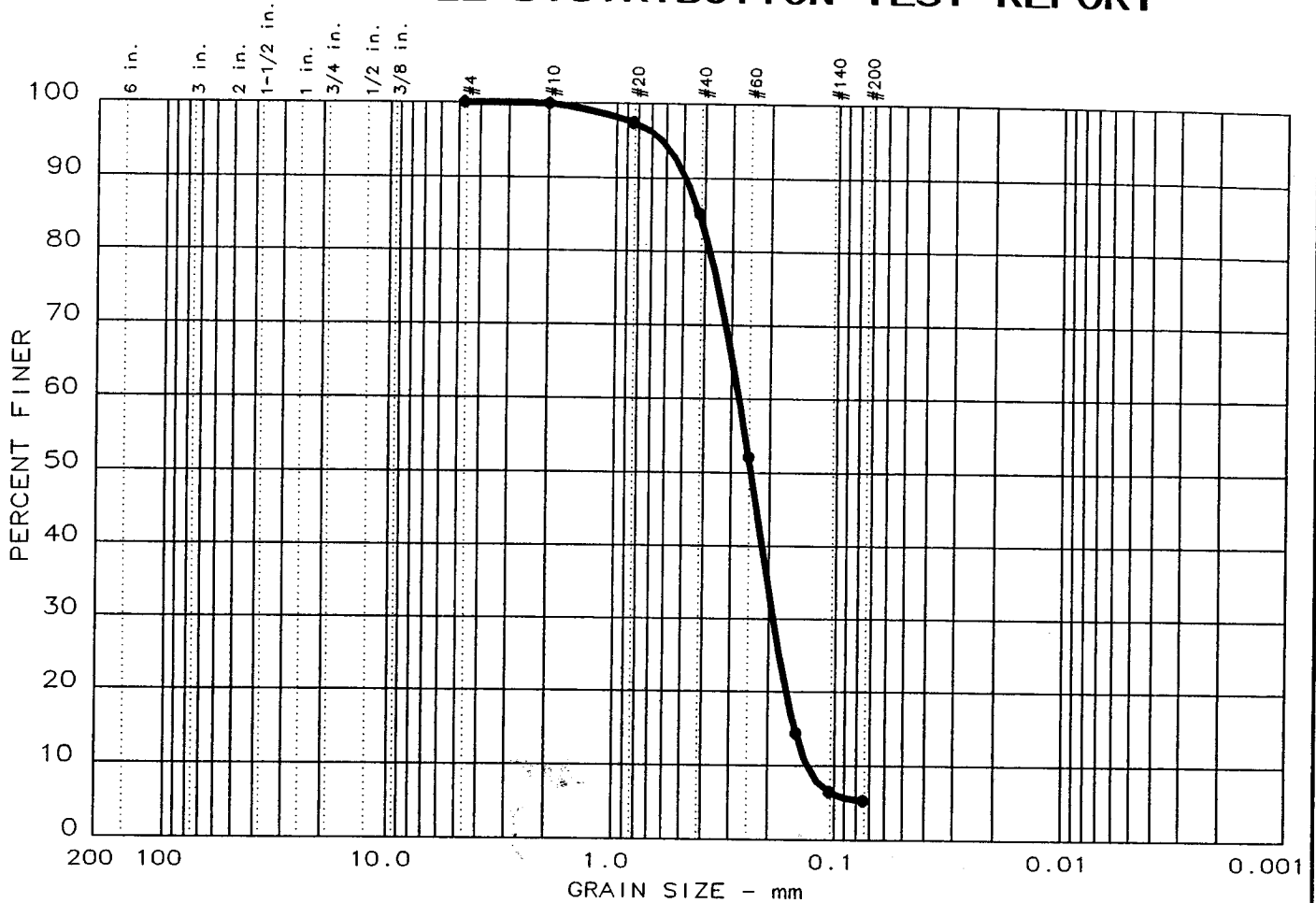
Remarks:  
 Sample depth 60.5'

**Eustis  
Engineering  
Company, Inc.**

Project No.: 19082  
 Project: USACE  
 Date: 11-16-05

Data Sheet No. \_\_\_\_\_

# PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.0	94.7	5.3		SP		

SIEVE inches size	PERCENT FINER	
●		
<del>X</del>	GRAIN SIZE	
D <sub>60</sub>	0.28	
D <sub>30</sub>	0.19	
D <sub>10</sub>	0.13	
<del>X</del>	COEFFICIENTS	
C <sub>c</sub>	1.00	
C <sub>u</sub>	2.1	

SIEVE number size	PERCENT FINER	
●		
4	100.0	
10	99.9	
20	97.4	
40	85.2	
60	52.1	
100	14.4	
140	6.5	
200	5.3	

Sample information:  
 ● Boring 1WG, Sample 30  
 GR SP W/ TR CC

Remarks:  
 Sample depth 70.5'

**Eustis  
Engineering  
Company, Inc.**

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