UNCONFINED COMPRESSION TEST 2000 1500 Compressive Stress, psf 1000 500 10 20 Axial Strain, % Specimen No. 1 Unconfined strength, psf 1067.1 Undrained shear strength, psf 533.6 16.4 Failure strain, % 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 PL = PI = **Assumed GS=** 2.74 Type: UNDISTURBED Project No.: 19082 **Client:** URS Corporation **Date:** 11-9-05 Project: U.S. Army Corps of Engineers Remarks: Inner Harbor Navigational Canal TORVANE = 0.350 TSF

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

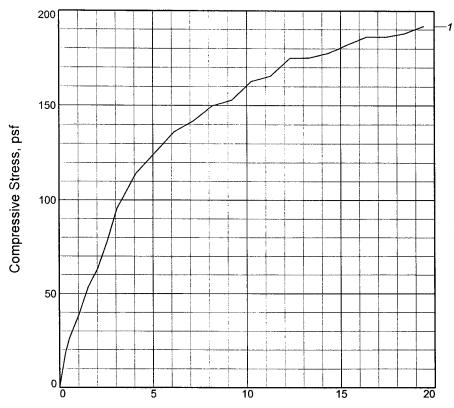
Sample Number: 3

UNCONFINED COMPRESSION TEST

EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: JS



1	
191.8	
95.9	
19.5	
0.058	
50.2	
103.2	
68.7	
92.8	
1.4719	
1.388	
2.930	
2.11	
	95.9 19.5 0.058 50.2 103.2 68.7 92.8 1.4719 1.388 2.930

Axial Strain, %

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

L	L =	P	L =	P	'l =	Assumed (GS=	2.72	ı	Type:	U	1DI	STU	JRI	BE	D

Project No.: 19082 **Date:** 11-9-05

Remarks:

Client: URS Corporation

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

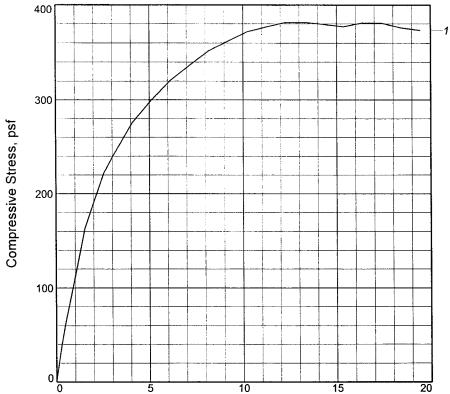
Source of Sample: B-2WG **Depth:** 10.0

Sample Number: 5 UNCONFINED COMPRESSION TEST

EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: RR



Axial Strain, %

Specimen No.	1	
Unconfined strength, psf	381.5	
Undrained shear strength, psf	190.7	
Failure strain, %	13.3	
Strain rate, in./min.	0.059	
Water content, %	69.3	
Wet density, pcf	96.7	
Dry density, pcf	57.1	
Saturation, %	95.2	
Void ratio	1.9942	
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: 11-9-05 Remarks:

TORVANE = 0.120 TSF

Client: URS Corporation

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

Source of Sample: B-2WG Depth: 22.5

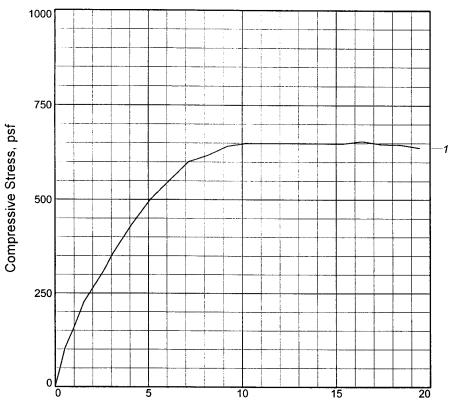
Sample Number: 10

UNCONFINED COMPRESSION TEST

EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: JS



Axial Strain, %

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

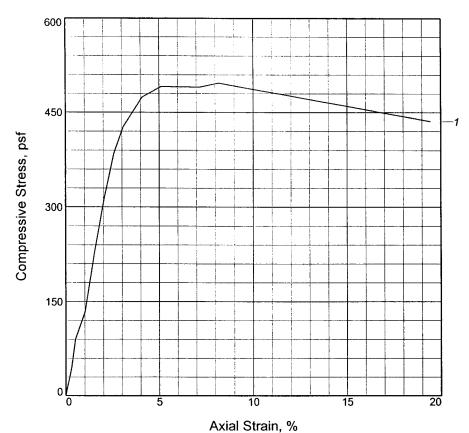
Sample Number: 12

UNCONFINED COMPRESSION TEST

EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: RR



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.

Tested By: JS

Figure 1

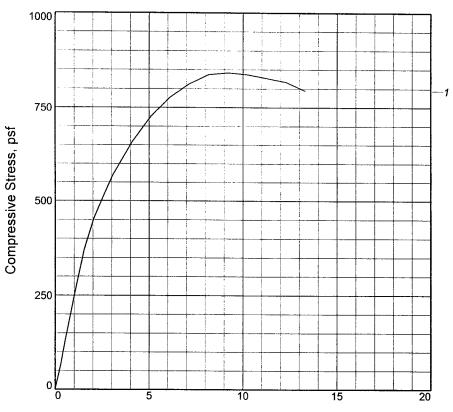
UNCONFINED COMPRESSION TEST 1000 750 Compressive Stress, psf 500 250 Axial Strain, % Specimen No. 1 655.9 Unconfined strength, psf Undrained shear strength, psf 328.0 Failure strain, % 9.2 0.059 Strain rate, in./min. Water content, % 66.0 96.4 Wet density, pcf Dry density, pcf 58.1 Saturation, % 93.0 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 Type: UNDISTURBED PL = Pl= Assumed GS= 2.74 LL = Project No.: 19082 **Client:** URS Corporation

Date: 11-9-05 Project: U.S. Army Corps of Engineers Remarks: Inner Harbor Navigational Canal TORVANE = 0.200 TSF**Depth:** 37.5 **Source of Sample:** B-2WG Sample Number: 16 **UNCONFINED COMPRESSION TEST**

Figure 1

EUSTIS ENGINEERING COMPANY, INC.

Tested By: RR Checked By: JS



Axial Strain, %

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:

Figure 1

TORVANE = 0.200 TSF

Client: URS Corporation

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

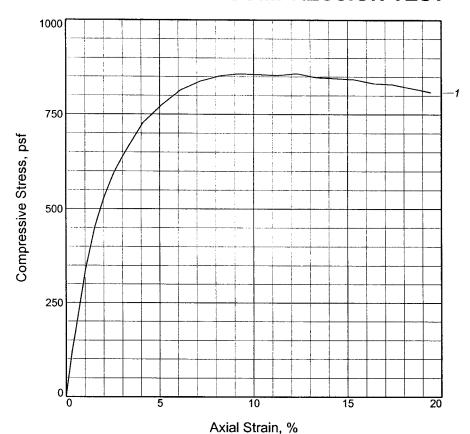
Source of Sample: B-2WG Depth: 42.5

Sample Number: 18

UNCONFINED COMPRESSION TEST

EUSTIS ENGINEERING COMPANY, INC.

Tested By: JL Checked By: JS



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

UNCONFINED COMPRESSION TEST 600 450 Compressive Stress, psf 300 150 Axial Strain, % Specimen No. 451.2 Unconfined strength, psf 225.6 Undrained shear strength, psf Failure strain, % 19.5 0.058 Strain rate, in./min. Water content, % 55.6 100.0 Wet density, pcf 64.3 Dry density, pcf Saturation, % 91.7 Void ratio 1.6618 1.388 Specimen diameter, in. 2.930 Specimen height, in. Height/diameter ratio 2.11 Description: VSO GR CH4 W/ LYS SM, SIF Type: UNDISTURBED PI = **Assumed GS=** 2.74 PL = Project No.: 19082 **Client:** URS Corporation Date: 11-9-05

Description: VSO GR CH4 W/LYS SM, SIF

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

Project No.: 19082

Date: 11-9-05

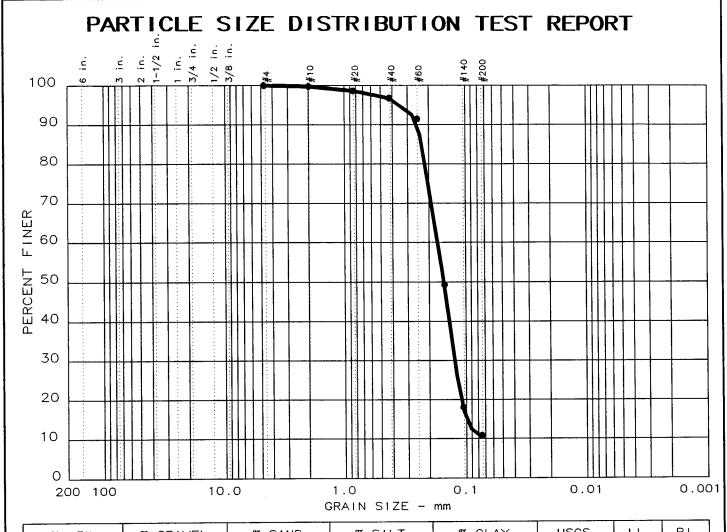
Remarks:
TORVANE = 0.150 TSF

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.

Tested By: RR Checked By: JS



ſ	% +3''	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	ΡI
•	0.0	0.0	89.2	10	. 8	SM1-s		

SIEVE	PERC	ENT FI	NER	
size				
	GR	AIN SI	ZE	
D 60	0.17			
1 ^D 30	0.12			
D ₁₀				
	COEFFICIENTS			
>>	COE	FFICIE	NTS	
CCG	COE	FFICIE	NTS	

SIEVE	PERC	NER	
number size	•		
4 10 20 40 60 100 140 200	100.0 99.7 98.6 96.7 91.4 49.2 18.0 10.8		

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

Remarks:

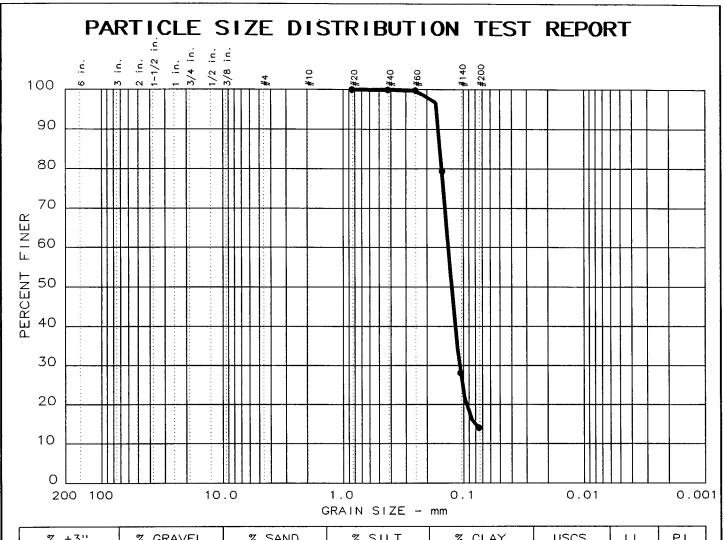
Sample depth 60.0'

Eustis Engineering Company, Inc. Project No.: 19082

Project: USACE

Date: 11-16-05

Data Sheet No.



	% +3''	% GRAVEL	% SAND	% SILT	% CLAY	uscs	LL	PI
•	0.0	0.0	86 <i>.</i> 0	14	. 0	SM1-s		
Γ								

SIEVE	PERC	PERCENT FINER				
size	•					
>	GR	AIN SI	ZE			
D ₆₀	0.13					
D 30	0.11					
D ₁₀						
	COEFFICIENTS					
C						
C c C u						

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

Sample	information	n:
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.