



Office of General Services

DESIGN & CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242

ADDENDUM NO. 2 TO PROJECT NO. 46091

CONSTRUCTION WORK REPAIR AND REPLACE OLEAN LEVEE BANK STABILIZATION PROJECT ALLEGHENY RIVER FLOOD CONTROL EMBANKMENT OLEAN, NY

February 21, 2025

NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

SPECIFICATIONS

1. DOCUMENT 003132 GEOTECHNICAL DATA: Append to Document 003132 the accompanying Boring Logs (pages 1 thru 16).

END OF ADDENDUM

Brady M. Sherlock, P.E.
Director, Division of Design
Design & Construction

Project: Olean Revetment Design

Project Location: Olean, New York

Project Number:

Log of Boring B-01

Sheet 1 of 2

Date(s) Drilled 7/8-9/2019	Logged By E. Thalhamer	Checked By E. Bogen
Drilling Method	Drill Bit Size/Type	Total Depth of Borehole 55.0' bgs
Drill Rig Type	Drilling Contractor Nature's Way Environmental	Surface Elevation
Borehole Backfill	Sampling Method(s) Split-spoon, Shelby Tube	Hammer Data
Groundwater Level(s) Enc. @ 26 ft		

Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	Water Content, %	REMARKS AND OTHER DETAILS
	Type	Number	SPT Blow Counts per 6 in	Recovery, %	Pocket Penetrometer, tsf				
0							6" TOPSOIL	0.0	
	SS-1		8 14 19 19	50			Dense, brown sandy GRAVEL (GP) [FILL]	0.5	
	SS-2		16 28 30 27	80			Very dense, brown gravelly medium SAND (SP)	2.0	
						▼ becomes fine to medium			
5	SS-3		22 25 31 22	75			▼ becomes medium dense		
	SS-4		10 15 10 10	75			Loose, brown, fine SAND (SP), trace silt, trace gravel	8.0	
	SS-5		6 3 2 3	50			Loose, brown, silty fine to medium SAND (SM)	14.0	
	SS-6		2 1 3 3	20			Loose, brown, SILT (ML) with fine sand, trace gravel	16.0	
	SS-7		2 2 2 4	50			Very loose, moist, gray fine SAND (SP), trace silt	24.0	
15	SS-8		3 2 5 6	90			▼ becomes medium dense		
	SS-9		4 4 6 6	90			▼ becomes wet		
	SS-10		1 2 4 4	90			▼ becomes wet		
20	ST-1			80					
	SS-11		4 6 6 8	90					
	SS-12		1 2 2 3	90					
25	SS-13		1 1 2 3	75					
	SS-14		1 1 1 1	80					
30									

Report: GEO_CR_DATUM_LABEL; File C:\USERS\RIK_BOGEN\DESKTOP\OLEAN REVETMENT\OLEAN REVETMENT\DESIGN_LOGS.GPJ; 7/23/2019 1:43:23 PM

Project: Olean Revetment Design

Project Location: Olean, New York

Project Number:

Log of Boring B-01

Sheet 2 of 2

Report: GEO_CR_DATUM_LABEL; File C:\USERS\RIK_BOGEN\DESKTOP\OLEAN REVETMENT\OLEAN REVETMENT\DESIGN_LOGS.GPJ; 7/23/2019 1:43:23 PM

Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	Water Content, %	REMARKS AND OTHER DETAILS	
	Type	Number	SPT Blow Counts per 6 in	Recovery, %	Pocket Penetrometer, tsf					
30	SS-15	1 1 1 2	90			Graphic Log				
	SS-16	WOR WOH 1 2	90							
35	SS-17	WOH 1 2 2	100							
	SS-18	1 1 2 3	75							
	SS-19	3 2 2 4	30							
40										
	SS-20	1 1 2 3	80							
45										
								46.5		
								Medium dense, moist, gray, fine SAND (SP), trace silt		
	SS-21	1 4 6 8								
50										
	SS-22	2 4 6 7								
55										
									55.0	End of Boring at 55' bgs

Project: Olean Revetment Design

Project Location: Olean, New York

Project Number:

Log of Boring B-02

Sheet 1 of 2

Date(s) Drilled 7/9-10/2019	Logged By E. Thalhamer	Checked By E. Bogen
Drilling Method	Drill Bit Size/Type	Total Depth of Borehole 55.0' bgs
Drill Rig Type	Drilling Contractor Nature's Way Environmental	Surface Elevation
Borehole Backfill	Sampling Method(s) Split-spoon, Shelby Tube	Hammer Data
Groundwater Level(s) Enc. @ 24 ft		

Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	Water Content, %	REMARKS AND OTHER DETAILS
	Type	Number	SPT Blow Counts per 6 in	Recovery, %	Pocket Penetrometer, tsf				
0							6" TOPSOIL	0.0	
	SS-1		8 14 20 26	50			Dense, brown, gravelly medium SAND (SP) [FILL]	0.5	
	SS-2		33 46 38 35	75			Very dense, brown, medium SAND (SP) with gravel	2.0	
5	SS-3		12 33 21 23	50			becomes dense, fine to medium		
	SS-4		9 17 18 10	75					
	SS-5		5 3 4 3	50			Loose, brown, fine SAND (SP), trace silt, trace gravel	8.0	
10	SS-6		2 4 4 4	75					
	SS-7		2 4 5 5	15					
15	SS-8		2 2 2 3	5					
	SS-9		1 2 3 5	80			Loose, damp, brown SILT (ML), trace fine sand	16.0	
	SS-10		WOH 1 3 4	90					
20	ST-1								
	SS-11		6 4 5 5	90			Very loose, moist, gray, fine SAND (SP)	22.0	
	SS-12		WOH 1 1 2	90			becomes wet		
25	SS-13		WOH 1 1 2	90			becomes with trace silt		
	SS-14		WOH 1 2 1	90					
30									

Report: GEO_CR_DATUM_LABEL; File C:\USERS\RIK_BOGEN\DESKTOP\OLEAN REVETMENT\OLEAN REVETMENT\DESIGN_LOGS.GPJ; 7/23/2019 1:43:30 PM



Project: Olean Revetment Design

Project Location: Olean, New York

Project Number:

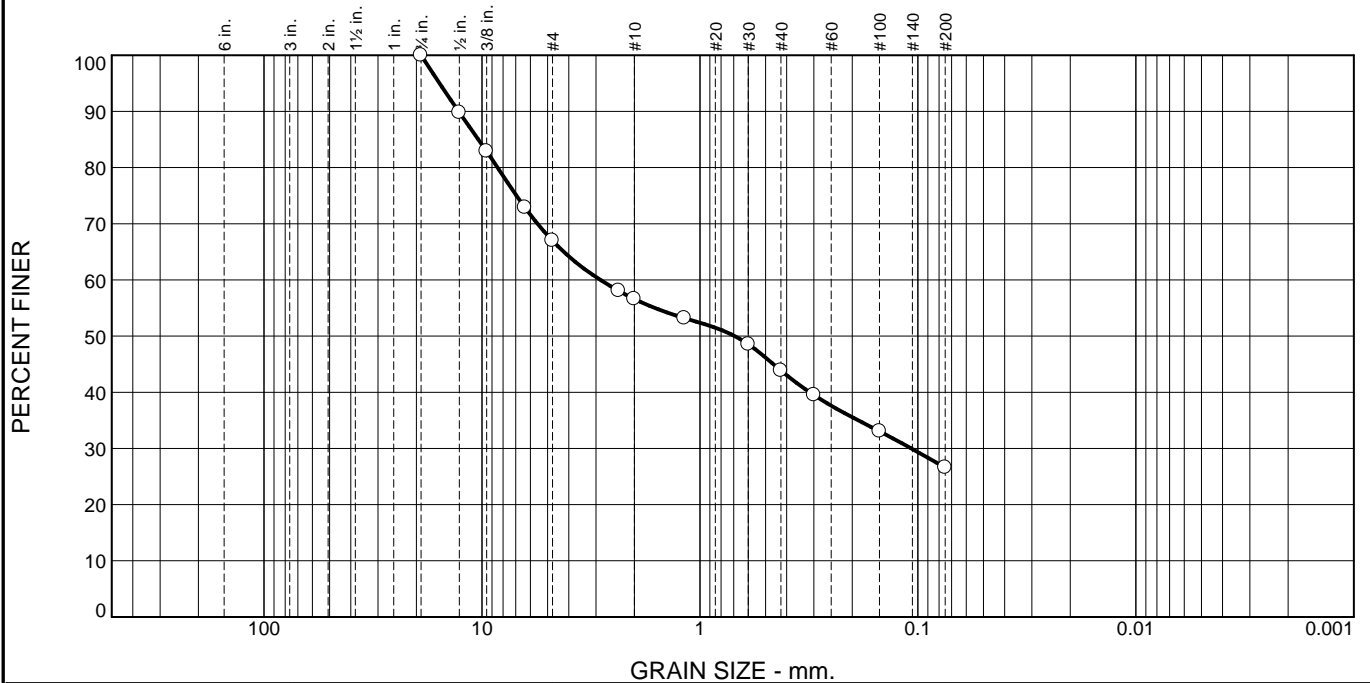
Log of Boring B-02

Sheet 2 of 2

Report: GEO_CR_DATUM_LABEL; File C:\USERS\RIK_BOGENIDESK\TOP\OLEAN REVETMENT\OLEAN REVETMENT\DESIGN_LOGS.GPJ; 7/23/2019 1:43:30 PM

Depth, feet	SAMPLES					Graphic Log	MATERIAL DESCRIPTION	Water Content, %	REMARKS AND OTHER DETAILS
	Type	Number	SPT Blow Counts per 6 in	Recovery, %	Pocket Penetrometer, tsf				
30	SS-15		WOR WOH 1 0	90					
	SS-16		WOR WOH 1 2	90					
35	SS-17		WOR 1 1 2	80					
	SS-18		WOR 1 1 1	60			Very loose, wet, gray, fine SAND with silt (SP-SM) ----- 36.0		
	SS-19		1 1 2 1	75					
40									
	SS-20		WOH 3 3 4	95			▼ becomes loose		
45							Loose, wet, gray fine to medium SAND (SP) with fine gravel ----- 46.5		
	SS-21		1 2 7 8						
50									
	SS-22		17 16 18 16				▼ becomes dense		
55							End of Boring at 55' bgs ----- 55.0		

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	33.0	10.4	12.7	17.3	26.6	

TEST RESULTS (ASTM D6913)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75"	100.0		
.5	89.8		
.375	82.9		
.25	72.9		
#4	67.0		
#8	58.1		
#10	56.6		
#16	53.2		
#30	48.6		
#40	43.9		
#50	39.5		
#100	33.0		
#200	26.6		

* (no specification provided)

Material Description

LAB ID# 19-637

Atterberg Limits (ASTM D 4318)

PL= _____ LL= _____ PI= _____

Classification

USCS (D 2487)= _____ AASHTO (M 145)= _____

Coefficients

D₉₀= 12.7986 D₈₅= 10.3880 D₆₀= 2.8604
D₅₀= 0.6925 D₃₀= 0.1074 D₁₅= _____
D₁₀= _____ C_u= _____ C_c= _____

Remarks

Natural Water Content, D2216: 9.3%
F.M.=3.18

Date Received: 8/5/19 Date Tested: 8/13/19

Tested By: CF

Checked By: JMA

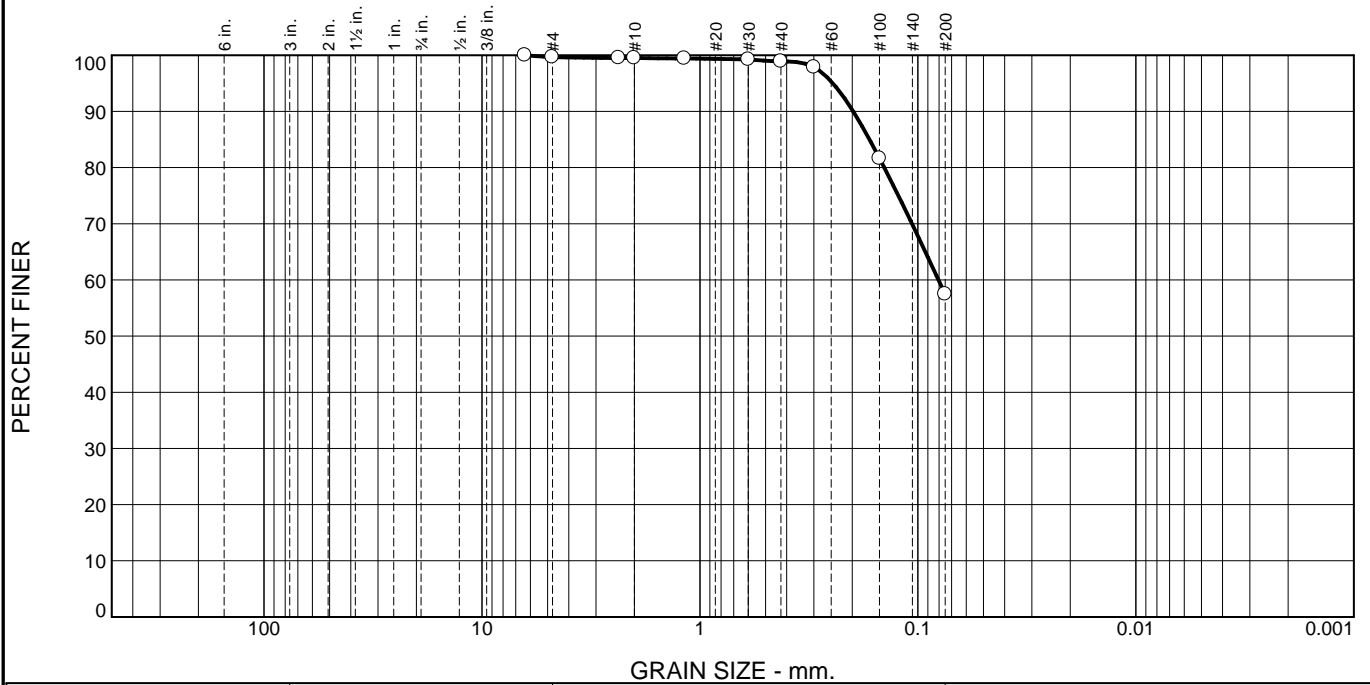
Title: LM

Source of Sample: Olean Revetment Design
Sample Number: B-01, 6-8'

Date Sampled: _____

<p>3rd Rock, LLC</p> <p>East Aurora, NY</p>	<p>Client: AECOM</p> <p>Project: Olean Revetment Design</p> <p>Project No: 19-045</p>
<p>Figure _____</p>	

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.3	0.2	0.6	41.4	57.5	

TEST RESULTS (ASTM D6913)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.25"	100.0		
#4	99.7		
#8	99.5		
#10	99.5		
#16	99.4		
#30	99.2		
#40	98.9		
#50	97.9		
#100	81.6		
#200	57.5		

Material Description

ID#19-639

Atterberg Limits (ASTM D 4318)

PL= _____ LL= _____ PI= _____

Classification

USCS (D 2487)= _____ AASHTO (M 145)= _____

Coefficients

D₉₀= 0.1980 D₈₅= 0.1667 D₆₀= 0.0805
D₅₀= _____ D₃₀= _____ D₁₅= _____
D₁₀= _____ C_u= _____ C_c= _____

Remarks

Natural Water Content, D2216: 29.9%
F.M.=0.23

Date Received: 8/5/19 **Date Tested:** 8/19/19

Tested By: EBS

Checked By: JMA

Title: LM

* (no specification provided)

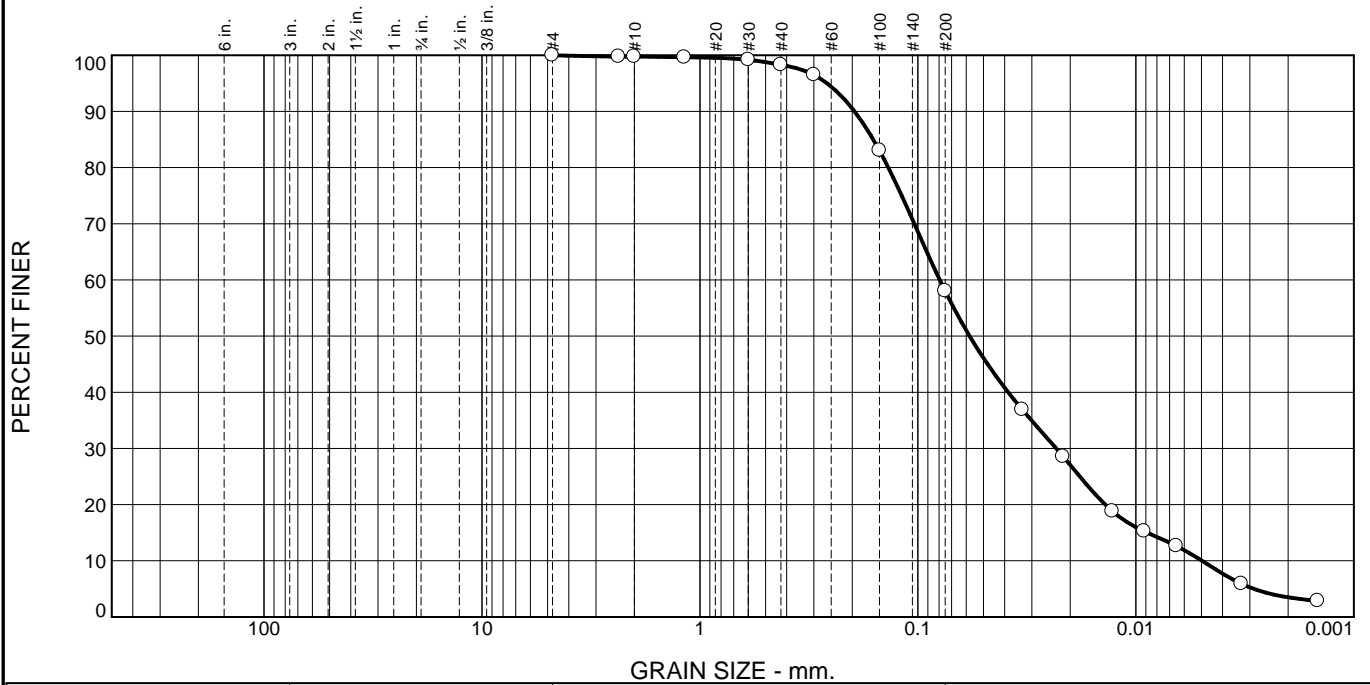
Source of Sample: Olean Revetment Design
Sample Number: B-01

Depth: 32-34'

Date Sampled:

<p>3rd Rock, LLC</p> <p>East Aurora, NY</p>	<p>Client: AECOM Project: Olean Revetment Design Project No: 19-045</p>
<p>Figure</p>	

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.2	1.5	40.3	47.9	10.1

TEST RESULTS (ASTM D 422)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
#4	100.0		
#8	99.8		
#10	99.8		
#16	99.6		
#30	99.2		
#40	98.3		
#50	96.5		
#100	83.0		
#200	58.0		
0.0332 mm.	36.9		
0.0216 mm.	28.6		
0.0128 mm.	18.8		
0.0092 mm.	15.2		
0.0065 mm.	12.7		
0.0033 mm.	5.9		
0.0015 mm.	2.9		

* (no specification provided)

Material Description

LAB ID# 19-640

Atterberg Limits (ASTM D 4318)

PL= _____ LL= _____ PI= _____

Classification

USCS (D 2487)= _____ AASHTO (M 145)= _____

Coefficients

D₉₀= 0.1953 D₈₅= 0.1602 D₆₀= 0.0794
 D₅₀= 0.0579 D₃₀= 0.0232 D₁₅= 0.0089
 D₁₀= 0.0050 C_u= 15.96 C_c= 1.36

Remarks

Natural Water Content, D2216: 27.4%
 F.M.=0.22

Date Received: 8/5/19 Date Tested: 8/16/19

Tested By: JJZ

Checked By: JMA

Title: LM

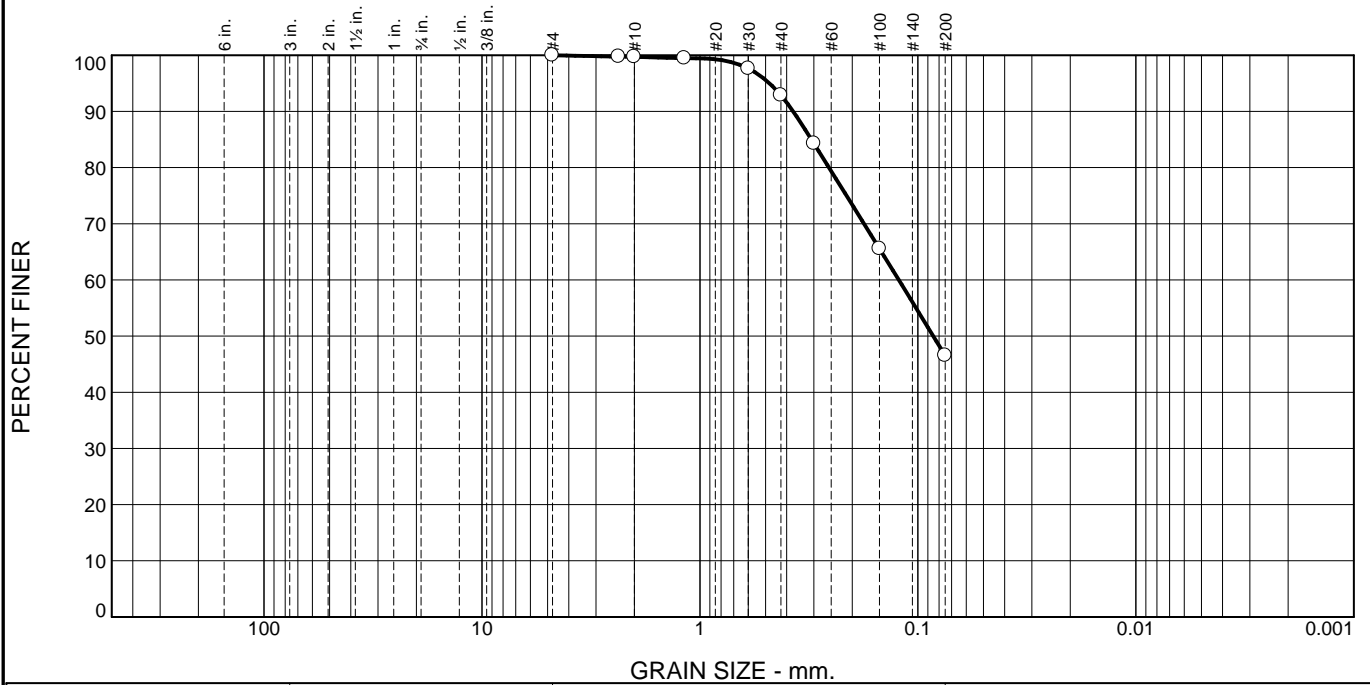
Source of Sample: Olean Revetment Design
 Sample Number: B-01, 43-45'

Date Sampled: _____

<p>3rd Rock, LLC</p> <p>East Aurora, NY</p>	<p>Client: AECOM</p> <p>Project: Olean Revetment Design</p> <p>Project No: 19-045</p>
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Figure _____

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.3	6.8	46.4	46.5	

TEST RESULTS (ASTM D6913)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
#4	100.0		
#8	99.8		
#10	99.7		
#16	99.5		
#30	97.6		
#40	92.9		
#50	84.3		
#100	65.6		
#200	46.5		

* (no specification provided)

Material Description

ID#19-641

Atterberg Limits (ASTM D 4318)

PL= _____ LL= _____ PI= _____

Classification

USCS (D 2487)= _____ AASHTO (M 145)= _____

Coefficients

D₉₀= 0.3736 D₈₅= 0.3080 D₆₀= 0.1224
D₅₀= 0.0850 D₃₀= _____ D₁₅= _____
D₁₀= _____ C_u= _____ C_c= _____

Remarks

Natural Water Content, D2216: 18.0%
F.M.=0.53

Date Received: 8/5/19 Date Tested: 8/23/19

Tested By: EBS

Checked By: JMA

Title: LM

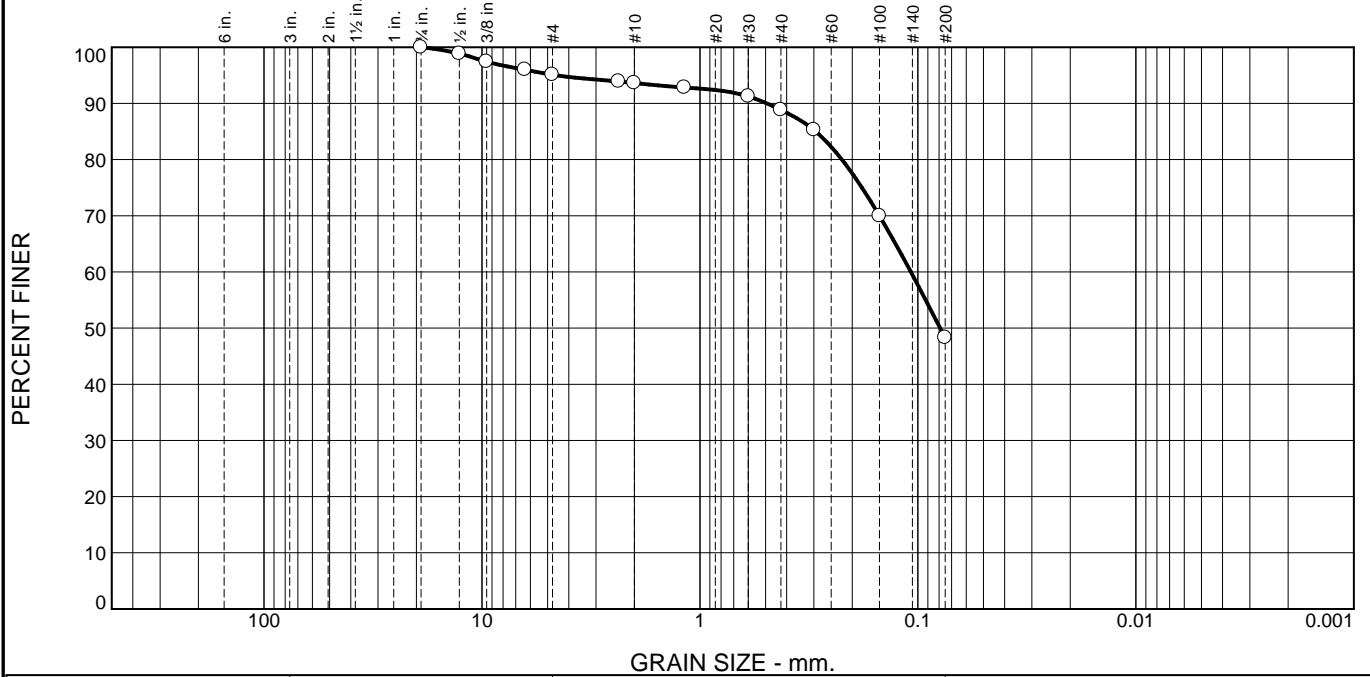
Source of Sample: Olean Revetment Design
Sample Number: B-02

Depth: 10-12'

Date Sampled:

<p>3rd Rock, LLC</p> <p>East Aurora, NY</p>	<p>Client: AECOM</p> <p>Project: Olean Revetment Design</p> <p>Project No: 19-045</p>
<p>Figure</p>	

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	4.9	1.5	4.8	40.5	48.3	

TEST RESULTS (ASTM D6913)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75"	100.0		
.5	98.9		
.375	97.4		
.25	96.0		
#4	95.1		
#8	93.9		
#10	93.6		
#16	92.8		
#30	91.2		
#40	88.8		
#50	85.3		
#100	70.0		
#200	48.3		

* (no specification provided)

Material Description

LAB ID# 19-642

Atterberg Limits (ASTM D 4318)

PL= _____ LL= _____ PI= _____

Classification

USCS (D 2487)= _____ AASHTO (M 145)= _____

Coefficients

D₉₀= 0.4934 D₈₅= 0.2941 D₆₀= 0.1077
D₅₀= 0.0790 D₃₀= _____ D₁₅= _____
D₁₀= _____ C_u= _____ C_c= _____

Remarks

F.M.=0.74

Date Received: 8/5/19 Date Tested: 8/23/19

Tested By: EBS

Checked By: JMA

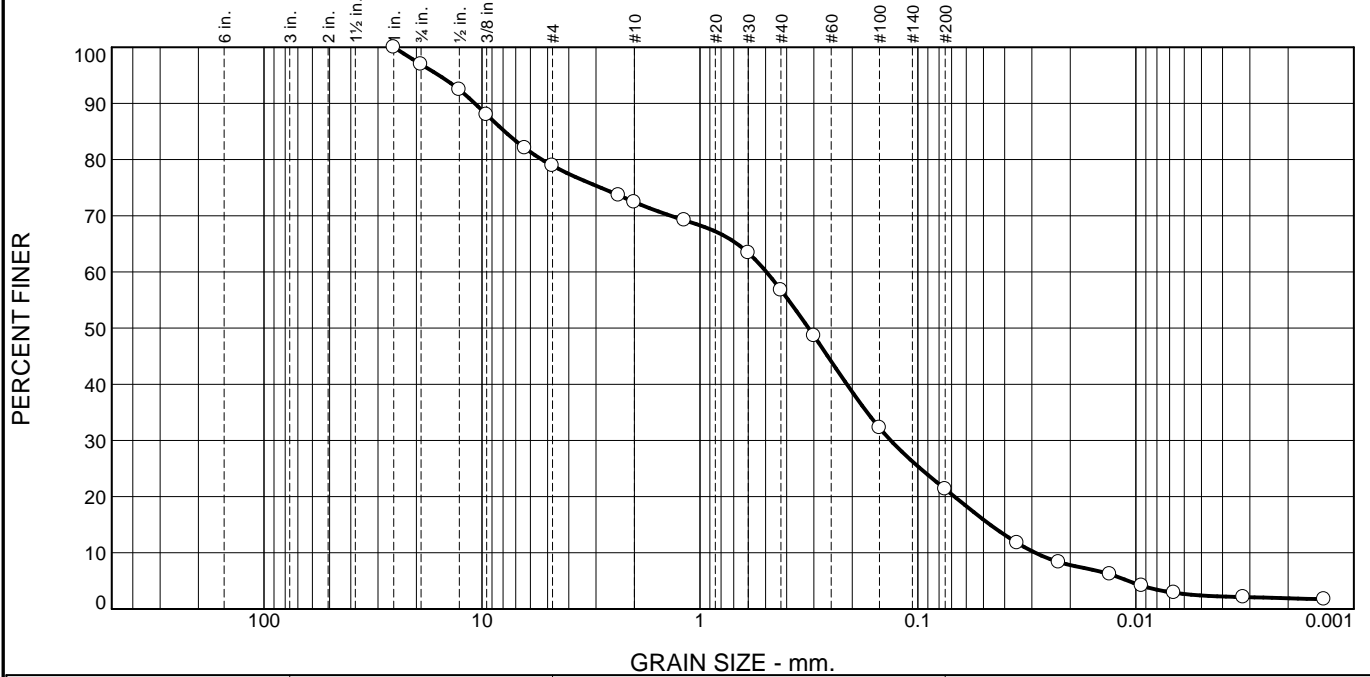
Title: LM

Source of Sample: Olean Revetment Design
Sample Number: B-02, 22-24'

Date Sampled:

<p>3rd Rock, LLC</p> <p>East Aurora, NY</p>	<p>Client: AECOM</p> <p>Project: Olean Revetment Design</p> <p>Project No: 19-045</p>
<p>Figure</p>	

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	3.0	18.1	6.5	15.6	35.4	19.0	2.4

TEST RESULTS (ASTM D 422)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
1"	100.0		
.75	97.0		
.5	92.4		
.375	88.0		
.25	82.0		
#4	78.9		
#8	73.7		
#10	72.4		
#16	69.2		
#30	63.4		
#40	56.8		
#50	48.6		
#100	32.2		
#200	21.4		
0.0350 mm.	11.8		
0.0225 mm.	8.3		
0.0132 mm.	6.2		
0.0094 mm.	4.1		
0.0067 mm.	2.9		
0.0032 mm.	2.1		
0.0014 mm.	1.7		

* (no specification provided)

Material Description

LAB ID# 19-644

Atterberg Limits (ASTM D 4318)

PL= _____ LL= _____ PI= _____

Classification

USCS (D 2487)= _____ AASHTO (M 145)= _____

Coefficients

D₉₀= 10.7860 D₈₅= 7.8631 D₆₀= 0.4957
 D₅₀= 0.3174 D₃₀= 0.1333 D₁₅= 0.0466
 D₁₀= 0.0289 C_u= 17.13 C_c= 1.24

Remarks

Natural Water Content, D2216: 19.2%
 Used entire sample provided for testing.
 F.M.=2.49

Date Received: 8/5/19 Date Tested: 8/23/19

Tested By: EBS

Checked By: JMA

Title: LM

Source of Sample: Olean Revetment Design
 Sample Number: B-02

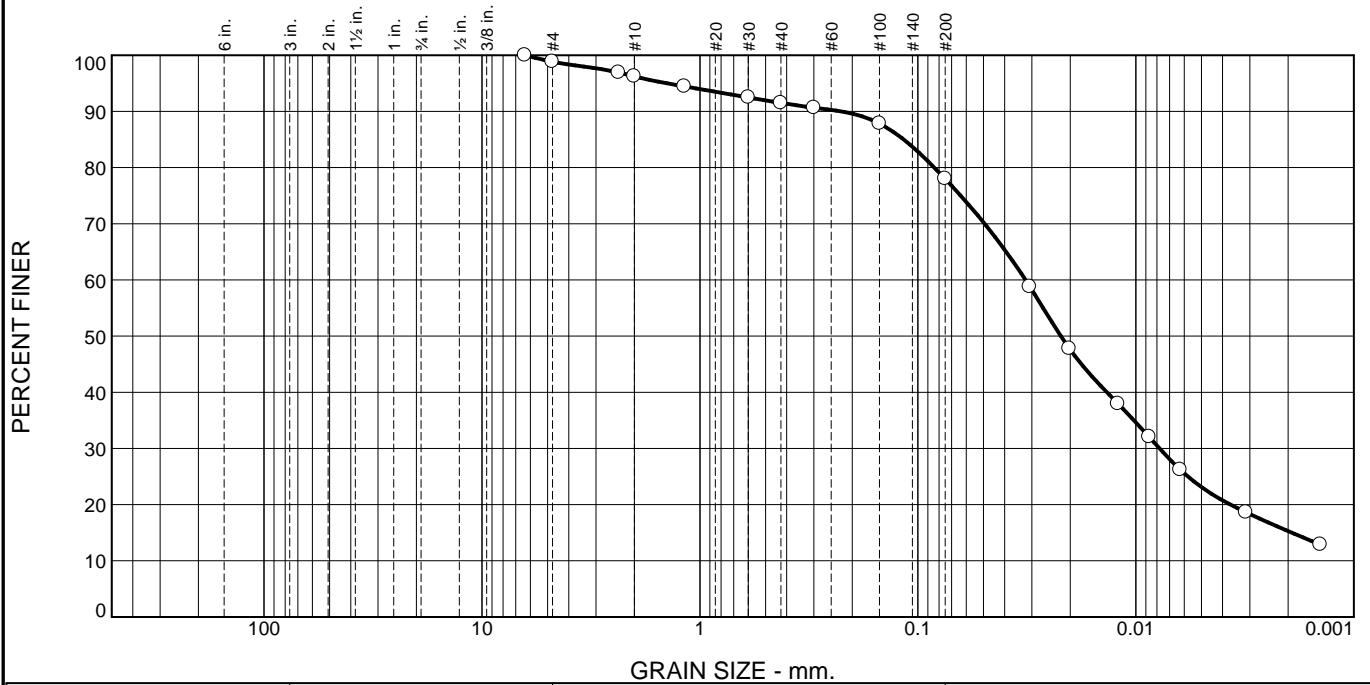
Depth: 48-50'

Date Sampled:

3rd Rock, LLC East Aurora, NY	Client: AECOM Project: Olean Revetment Design Project No: 19-045
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Figure

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	1.2	2.6	4.7	13.5	54.9	23.1

TEST RESULTS (ASTM D 422)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.25"	100.0		
#4	98.8		
#8	96.9		
#10	96.2		
#16	94.5		
#30	92.5		
#40	91.5		
#50	90.7		
#100	87.8		
#200	78.0		
0.0307 mm.	58.8		
0.0202 mm.	47.8		
0.0121 mm.	38.0		
0.0087 mm.	32.1		
0.0063 mm.	26.2		
0.0031 mm.	18.6		
0.0014 mm.	12.9		

* (no specification provided)

Material Description

LAB ID# 19-635

Atterberg Limits (ASTM D 4318)

PL= 19 LL= 28 PI= 9

Classification

USCS (D 2487)= CL AASHTO (M 145)= A-4(5)

Coefficients

D₉₀= 0.2246 D₈₅= 0.1162 D₆₀= 0.0321
D₅₀= 0.0221 D₃₀= 0.0078 D₁₅= 0.0019
D₁₀= C_u= C_c=

Remarks

F.M.=0.39

Date Received: 8/5/19 Date Tested: 8/16/19

Tested By: JJZ

Checked By: JMA

Title: LM

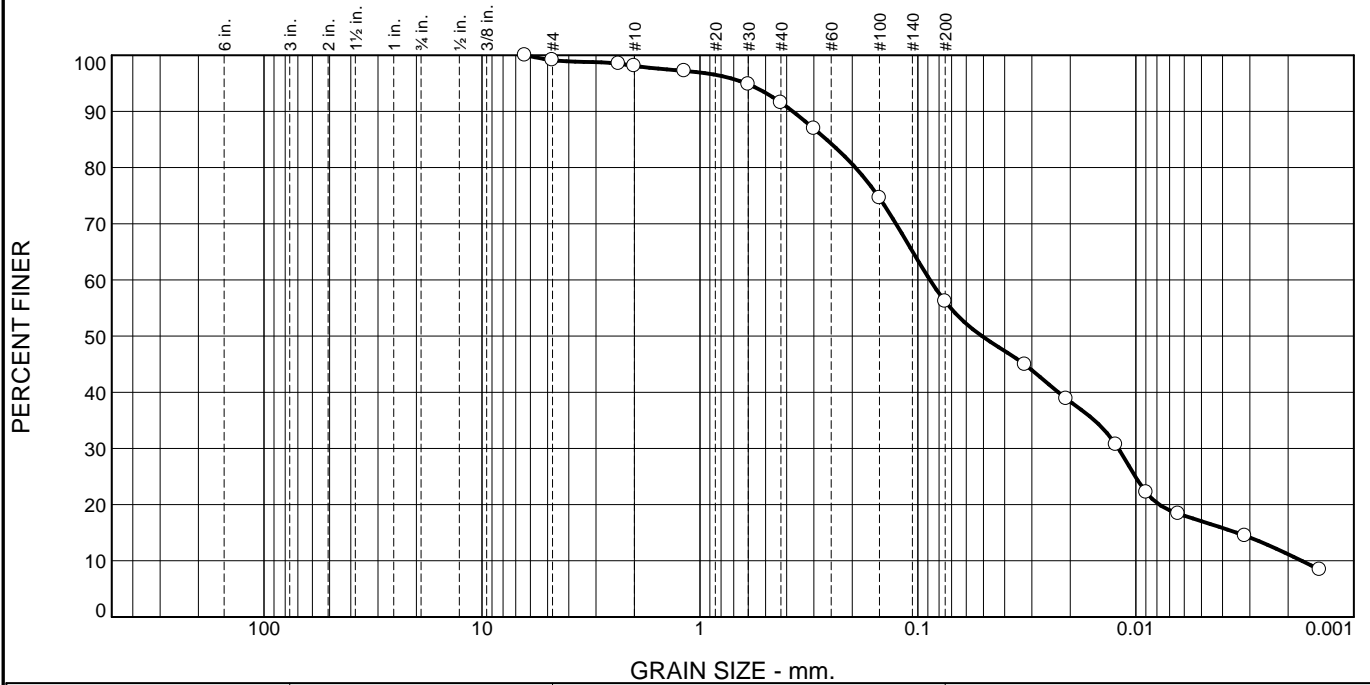
Source of Sample: Olean Revetment Design
Sample Number: ST-B-01

Depth: 20-22'

Date Sampled:

<p>3rd Rock, LLC</p> <p>East Aurora, NY</p>	<p>Client: AECOM</p> <p>Project: Olean Revetment Design</p> <p>Project No: 19-045</p> <p style="text-align: right;">Figure</p>
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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.9	1.0	6.5	35.4	39.2	17.0

TEST RESULTS (ASTM D 422)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.25"	100.0		
#4	99.1		
#8	98.5		
#10	98.1		
#16	97.2		
#30	94.8		
#40	91.6		
#50	86.9		
#100	74.6		
#200	56.2		
0.0323 mm.	44.9		
0.0208 mm.	38.8		
0.0124 mm.	30.7		
0.0090 mm.	22.2		
0.0064 mm.	18.4		
0.0032 mm.	14.5		
0.0014 mm.	8.4		

* (no specification provided)

Material Description

LAB ID# 19-636

Atterberg Limits (ASTM D 4318)

PL= 18 LL= 28 PI= 10

Classification

USCS (D 2487)= CL AASHTO (M 145)= A-4(3)

Coefficients

D₉₀= 0.3750 D₈₅= 0.2626 D₆₀= 0.0881
D₅₀= 0.0508 D₃₀= 0.0120 D₁₅= 0.0034
D₁₀= 0.0017 C_u= 50.75 C_c= 0.95

Remarks

F.M.=0.49

Date Received: 8/5/19 Date Tested: 8/19/19

Tested By: JJZ

Checked By: JMA

Title: LM

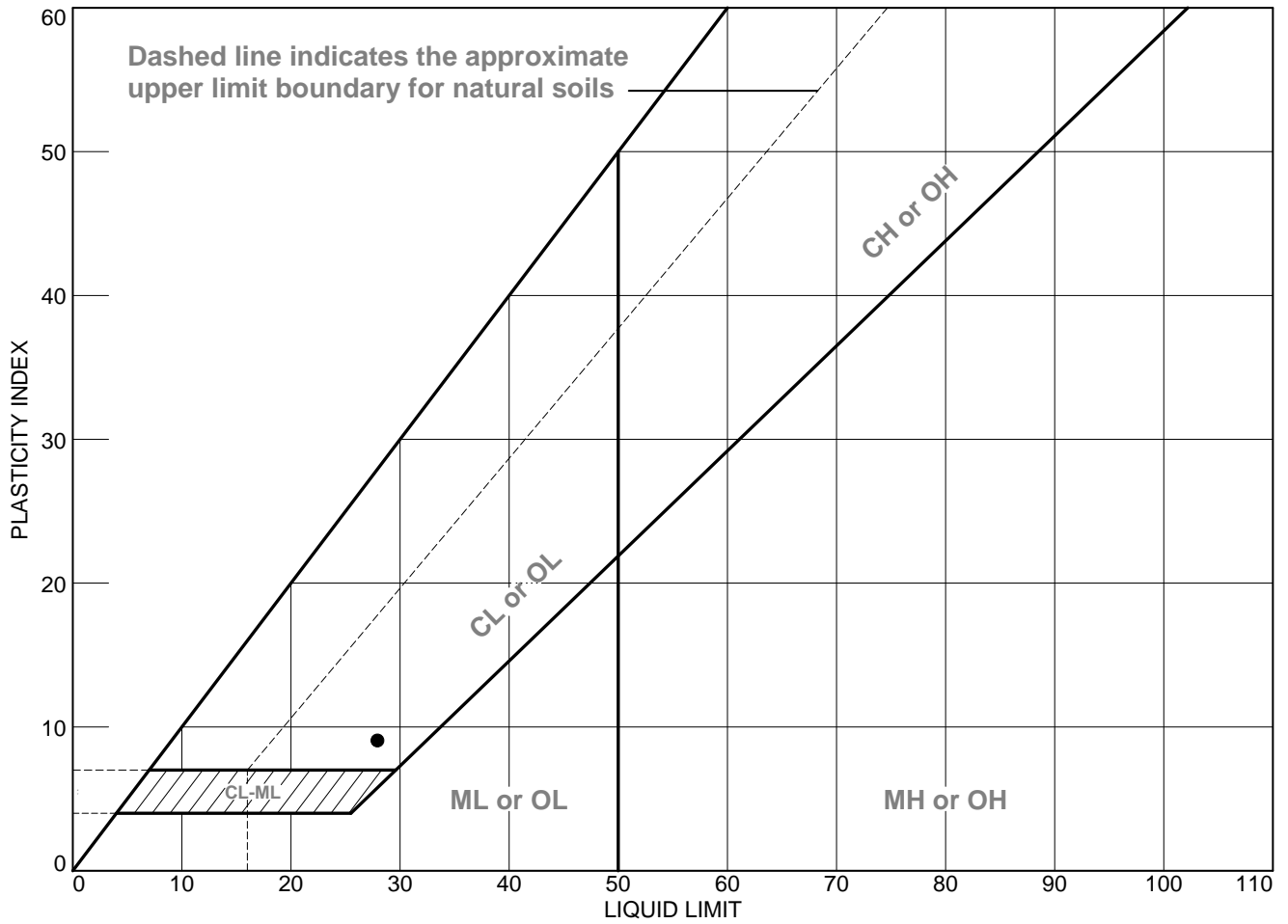
Source of Sample: Olean Revetment Design
Sample Number: ST-B-02

Depth: 20-22'

Date Sampled:

<p>3rd Rock, LLC</p> <p>East Aurora, NY</p>	<p>Client: AECOM</p> <p>Project: Olean Revetment Design</p> <p>Project No: 19-045</p> <p style="text-align: right;">Figure</p>
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LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	Olean Revetment Design	ST-B-01	20-22'	21.5	19	28	9	CL

3rd Rock, LLC

East Aurora, NY

Client: AECOM

Project: Olean Revetment Design

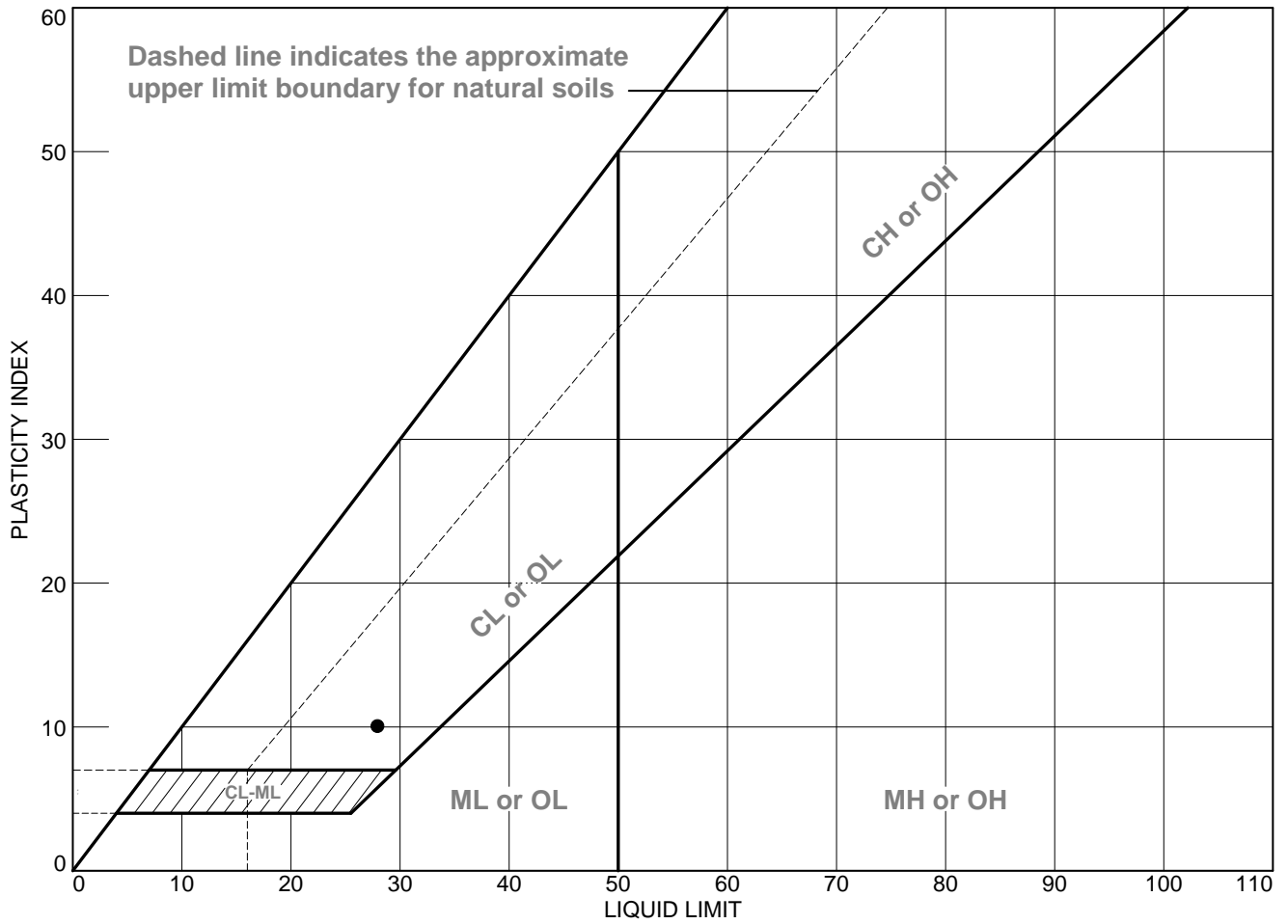
Project No.: 19-045

Figure

Tested By: CF/EBS 8/15/19

Checked By: JMA

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	Olean Revetment Design	ST-B-02	20-22'	26.5	18	28	10	CL

3rd Rock, LLC

East Aurora, NY

Client: AECOM

Project: Olean Revetment Design

Project No.: 19-045

Figure

Tested By: EBS 8/16/19

Checked By: JMA