

DATA PACKAGE
GENERAL CHEMISTRY

PROJECT NAME : OVEC - KYGER CREEK

ENTACT.

150 Bay Street

Suite 806

Jersey City, NJ - 07302

Phone No: 201-356-9196

ORDER ID : Q2850, Q2851, Q2852

ATTENTION : Wyatt Steel



Cover Page

Order ID : Q2850, Q2851, Q2852

Project ID : OVEC - Kyger Creek

Client : ENTACT.

Lab Sample Number

Q2850-01
Q2850-02
Q2851-01
Q2851-02
Q2852-01
Q2852-02

Client Sample Number

SFAP 1
NSP 5
NSP 3
NSP 1
NSP 4
NSP 2

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 1:49 pm, Sep 09, 2025



GEOLAB

• NEW JERSEY
1017 GREELEY AVE SOUTH
UNION, NJ 07083
908.964.0786

• SOUTH CAROLINA
49 BROWNS COVE ROAD SUITE 6
RIDGELAND, SC 29936
848.316.9950

Letter of Transmittal

Date: 9-9-25

Job No.: 889

Lab Log: 25-4437

Attention: Yazmeen
Alliance Technical Group
284 Sheffield Street
Mountainside, NJ 07092

CC: Jordan Hedvat, projectmanagers@chemtech.net

Re: Q2850 – OVEC – Kyger Creek

Sample(s) ID: SFAP 1, NSP 5, NSP 3, NSP 1, NSP 4, NSP 2

Dear Yazmeen,

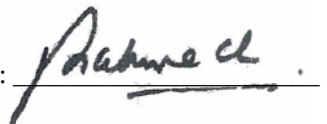
Please find attached results for the samples referenced above. The following lab testing was performed:

- ASTM D4318 Atterberg Limits
- ASTM D422 Sieve & Hydrometer Analysis
- ASTM D698 Standard Proctor

Regards,
RSA Geolab, LLC

Remarks: If you have any questions, please call 908-964-0786.

Signed: _____

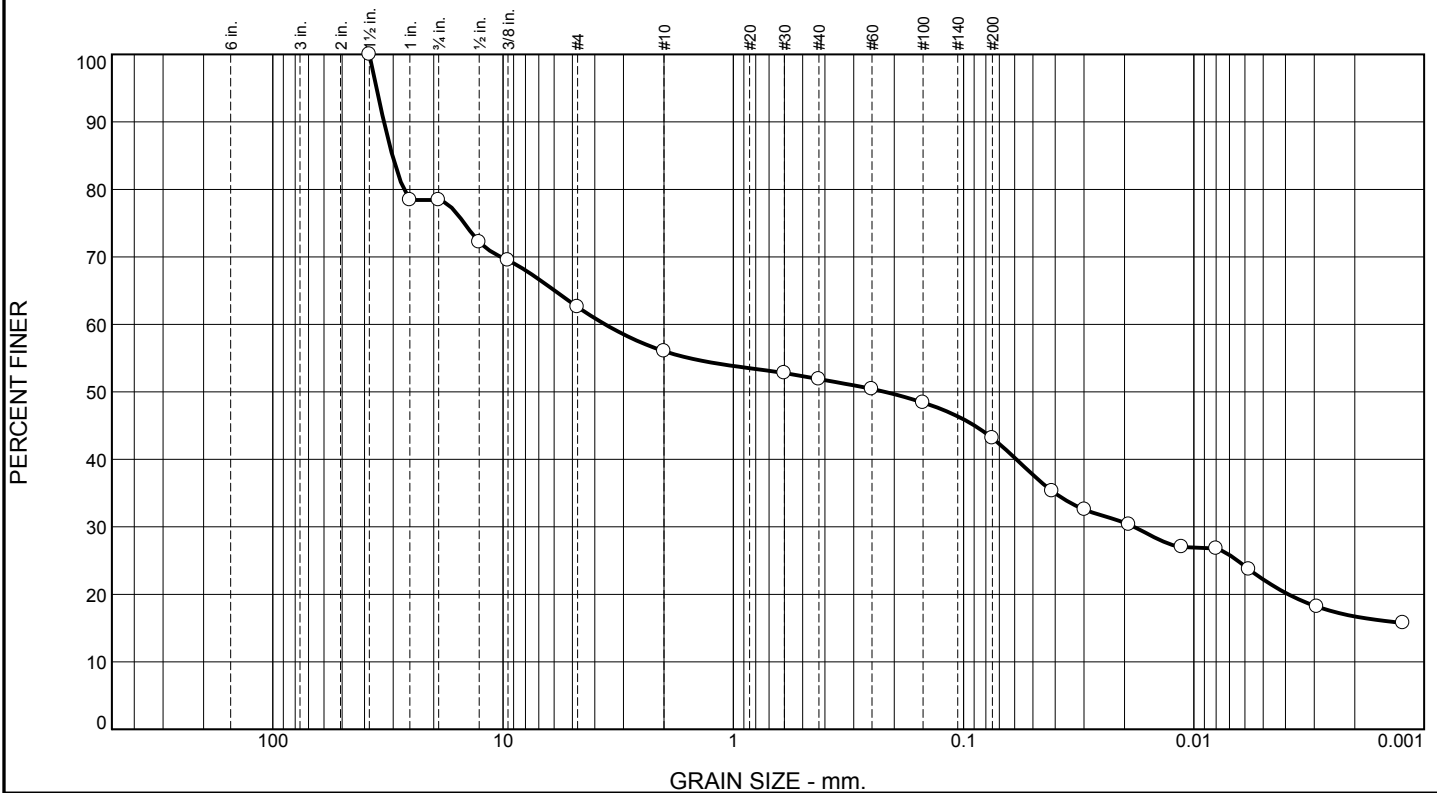

Dr. Raza S. Ahmed
President RSA Geolab, LLC

<https://www.rsageolab.com/>
email: rsa@rsageolab.com

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	21.6	15.8	6.6	4.1	8.8	20.9	22.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0		
1	78.4		
.75	78.4		
.5	72.2		
.375	69.5		
#4	62.6		
#10	56.0		
#30	52.8		
#40	51.9		
#60	50.4		
#100	48.4		
#200	43.1		

* (no specification provided)

Material Description		
Brownish Yellow clayey gravel with sand		
PL= 25	Atterberg Limits LL= 51	PI= 26
D ₉₀ = 32.9207	Coefficients D ₈₅ = 30.2534	D ₆₀ = 3.6076
D ₅₀ = 0.2199	D ₃₀ = 0.0182	D ₁₅ =
D ₁₀ =	C _u =	C _c =
USCS= GC	Classification AASHTO=	A-7-6(7)
Remarks		

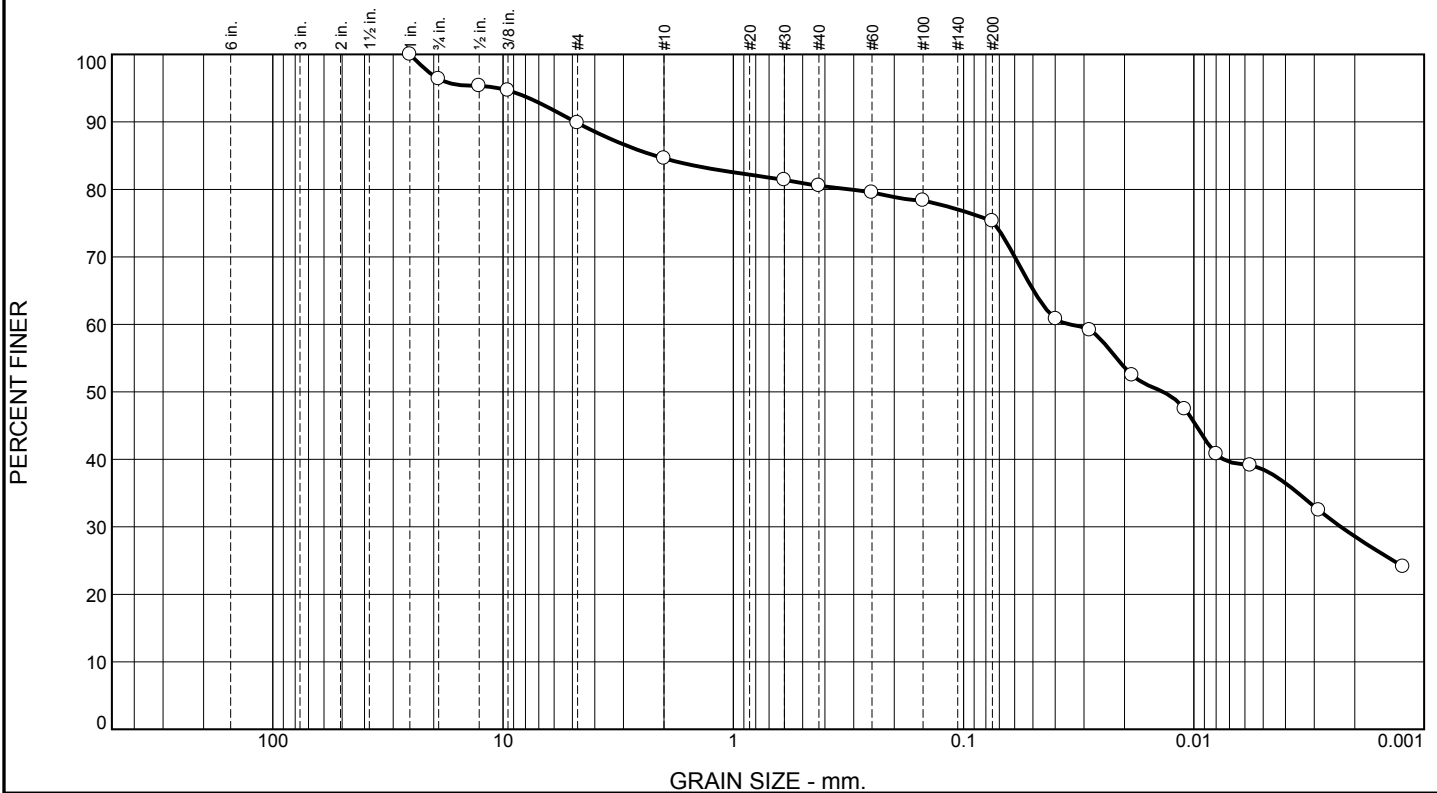
Sample Number: NSP 1

Date: 9-9-25

RSA Geolab Union, New Jersey	Client: Alliance Technical Group Project: Q2850 - OVEC - Kyger Creek
	Project No: 889 Figure

Tested By: CS Checked By: KH

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	3.6	6.6	5.2	4.1	5.2	36.8	38.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1	100.0		
.75	96.4		
.5	95.3		
.375	94.7		
#4	89.8		
#10	84.6		
#30	81.4		
#40	80.5		
#60	79.5		
#100	78.3		
#200	75.3		

* (no specification provided)

Material Description
Brownish Yellow lean clay with sand

PL= 20 **Atterberg Limits** LL= 42 PI= 22

Coefficients
D₉₀= 4.8517 D₈₅= 2.1884 D₆₀= 0.0349
D₅₀= 0.0136 D₃₀= 0.0023 D₁₅=
D₁₀= C_u= C_c=

Classification
USCS= CL AASHTO= A-7-6(16)

Remarks

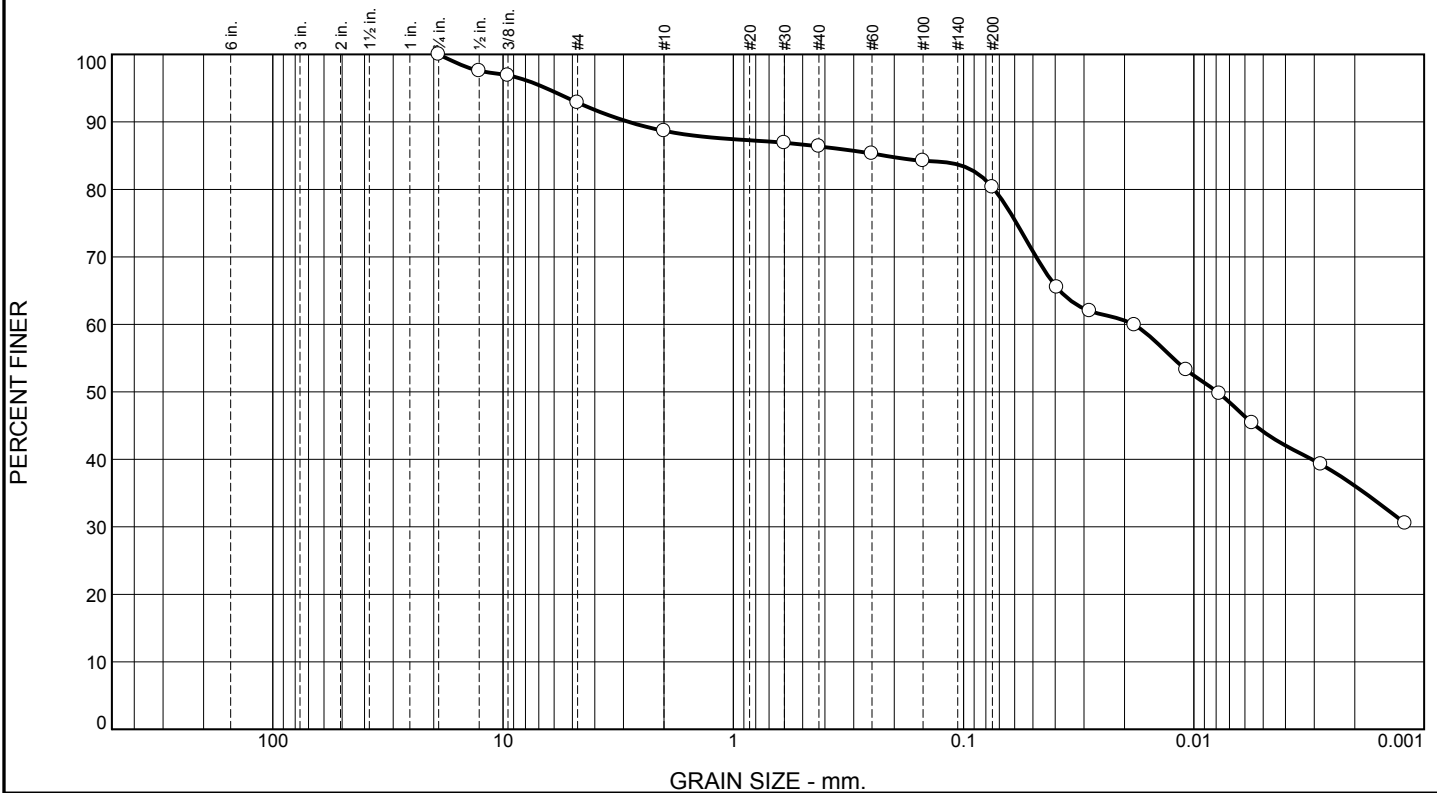
Sample Number: NSP 2

Date: 9-9-25

RSA Geolab Union, New Jersey	Client: Alliance Technical Group Project: Q2850 - OVEC - Kyger Creek
	Project No: 889 Figure

Tested By: CS Checked By: KH

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	7.1	4.2	2.3	6.1	36.2	44.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.5	97.6		
.375	96.9		
#4	92.9		
#10	88.7		
#30	86.9		
#40	86.4		
#60	85.3		
#100	84.2		
#200	80.3		

* (no specification provided)

Material Description
 Brownish Yellow lean clay with sand

PL= 24 **Atterberg Limits** LL= 44 PI= 20

D₉₀= 2.8461
 D₅₀= 0.0079
 D₁₀=

Coefficients
 D₈₅= 0.2204
 D₃₀=
 C_u=

D₆₀= 0.0183
 D₁₅=
 C_c=

USCS= CL **Classification** AASHTO= A-7-6(16)

Remarks

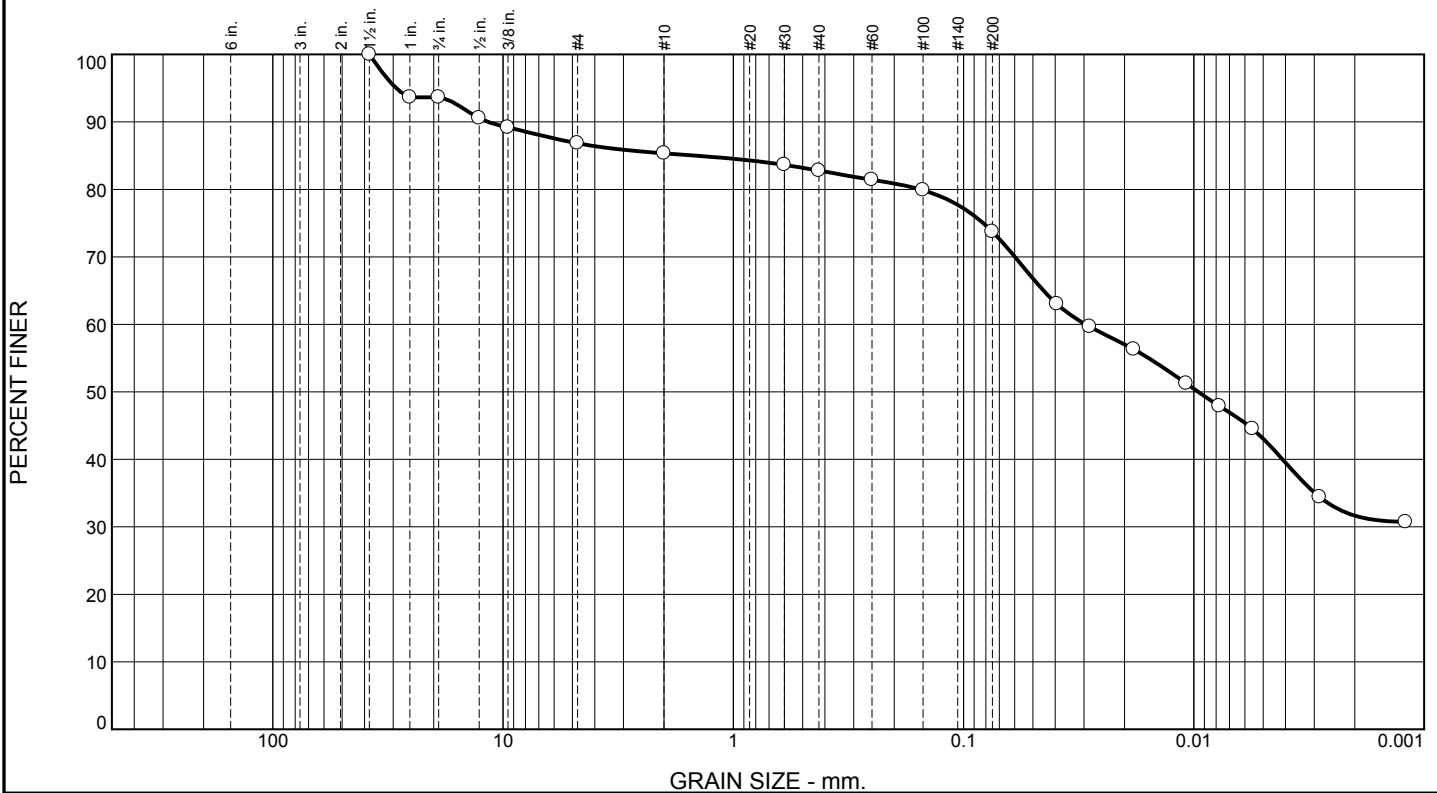
Sample Number: NSP 3

Date: 9-9-25

RSA Geolab Union, New Jersey	Client: Alliance Technical Group Project: Q2850 - OVEC - Kyger Creek
	Project No: 889 Figure

Tested By: CS Checked By: KH

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	6.3	6.9	1.5	2.5	9.1	30.6	43.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0		
1	93.7		
.75	93.7		
.5	90.6		
.375	89.2		
#4	86.8		
#10	85.3		
#30	83.6		
#40	82.8		
#60	81.4		
#100	79.9		
#200	73.7		

* (no specification provided)

Material Description
Brownish Yellow lean clay with gravel

Atterberg Limits
 PL= 22 LL= 40 PI= 18

Coefficients
 D₉₀= 11.6424 D₈₅= 1.4644 D₆₀= 0.0295
 D₅₀= 0.0096 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= CL AASHTO= A-6(13)

Remarks

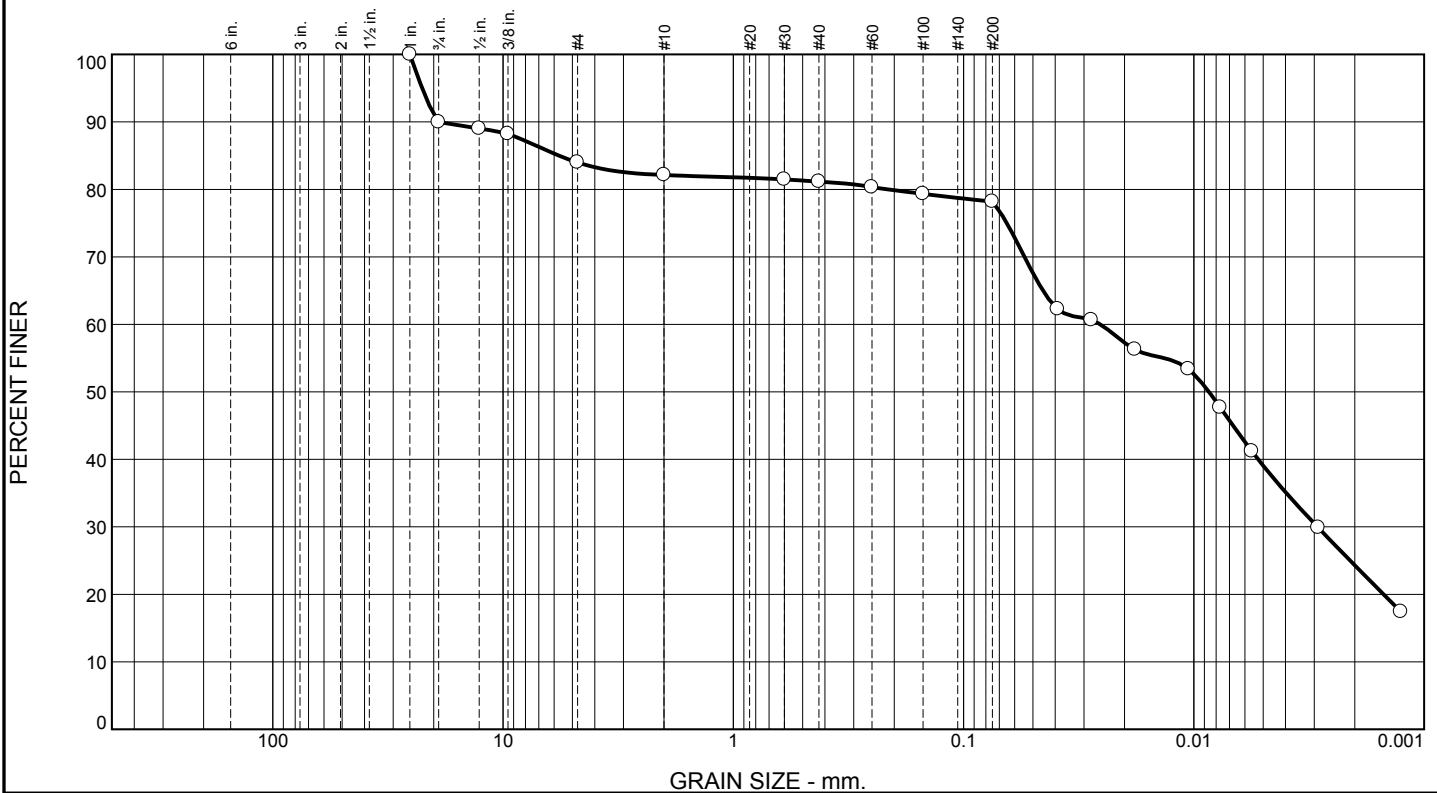
Sample Number: NSP 4

Date: 9-9-25

RSA Geolab Union, New Jersey	Client: Alliance Technical Group Project: Q2850 - OVEC - Kyger Creek
	Project No: 889 Figure

Tested By: CS Checked By: KH

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	10.0	6.0	1.9	1.0	2.9	39.1	39.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1	100.0		
.75	90.0		
.5	89.0		
.375	88.2		
#4	84.0		
#10	82.1		
#30	81.5		
#40	81.1		
#60	80.3		
#100	79.3		
#200	78.2		

* (no specification provided)

Material Description
Brown lean clay with gravel

PL= 23 **Atterberg Limits** LL= 39 PI= 16

Coefficients
D₉₀= 19.0780 D₈₅= 5.7060 D₆₀= 0.0255
D₅₀= 0.0086 D₃₀= 0.0029 D₁₅=
D₁₀= C_u= C_c=

Classification
USCS= CL AASHTO= A-6(12)

Remarks

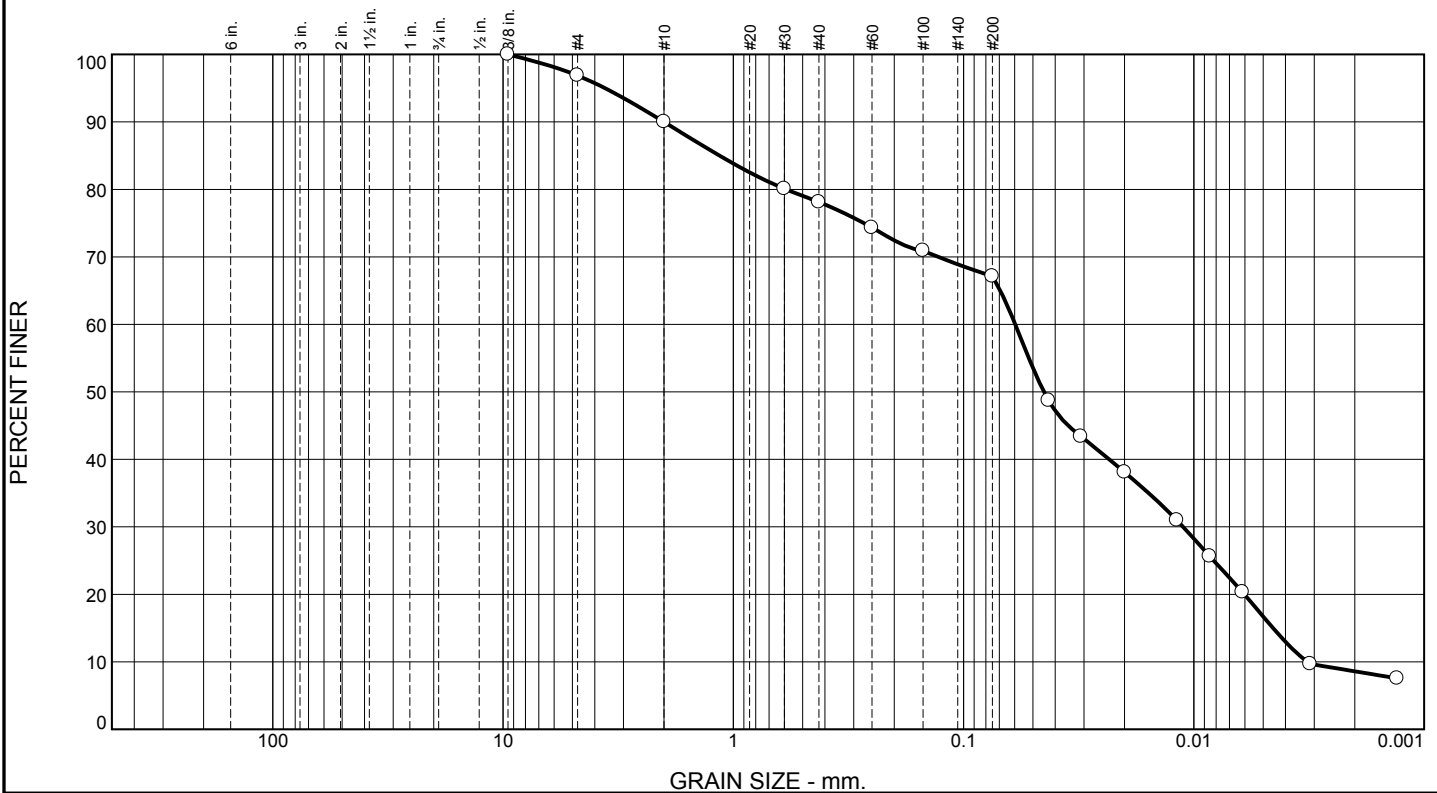
Sample Number: NSP 5

Date: 9-9-25

RSA Geolab Union, New Jersey	Client: Alliance Technical Group Project: Q2850 - OVEC - Kyger Creek
	Project No: 889 Figure

Tested By: CS Checked By: KH

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	3.1	6.9	11.9	11.0	50.4	16.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100.0		
#4	96.9		
#10	90.0		
#30	80.1		
#40	78.1		
#60	74.3		
#100	70.9		
#200	67.1		

* (no specification provided)

Material Description		
Dark Gray sandy silt		
Atterberg Limits		
PL= 39	LL= 47	PI= 8
Coefficients		
D ₉₀ = 2.0021	D ₈₅ = 1.1477	D ₆₀ = 0.0597
D ₅₀ = 0.0448	D ₃₀ = 0.0111	D ₁₅ = 0.0045
D ₁₀ = 0.0032	C _u = 18.55	C _c = 0.65
Classification		
USCS= ML	AASHTO=	A-5(6)
Remarks		

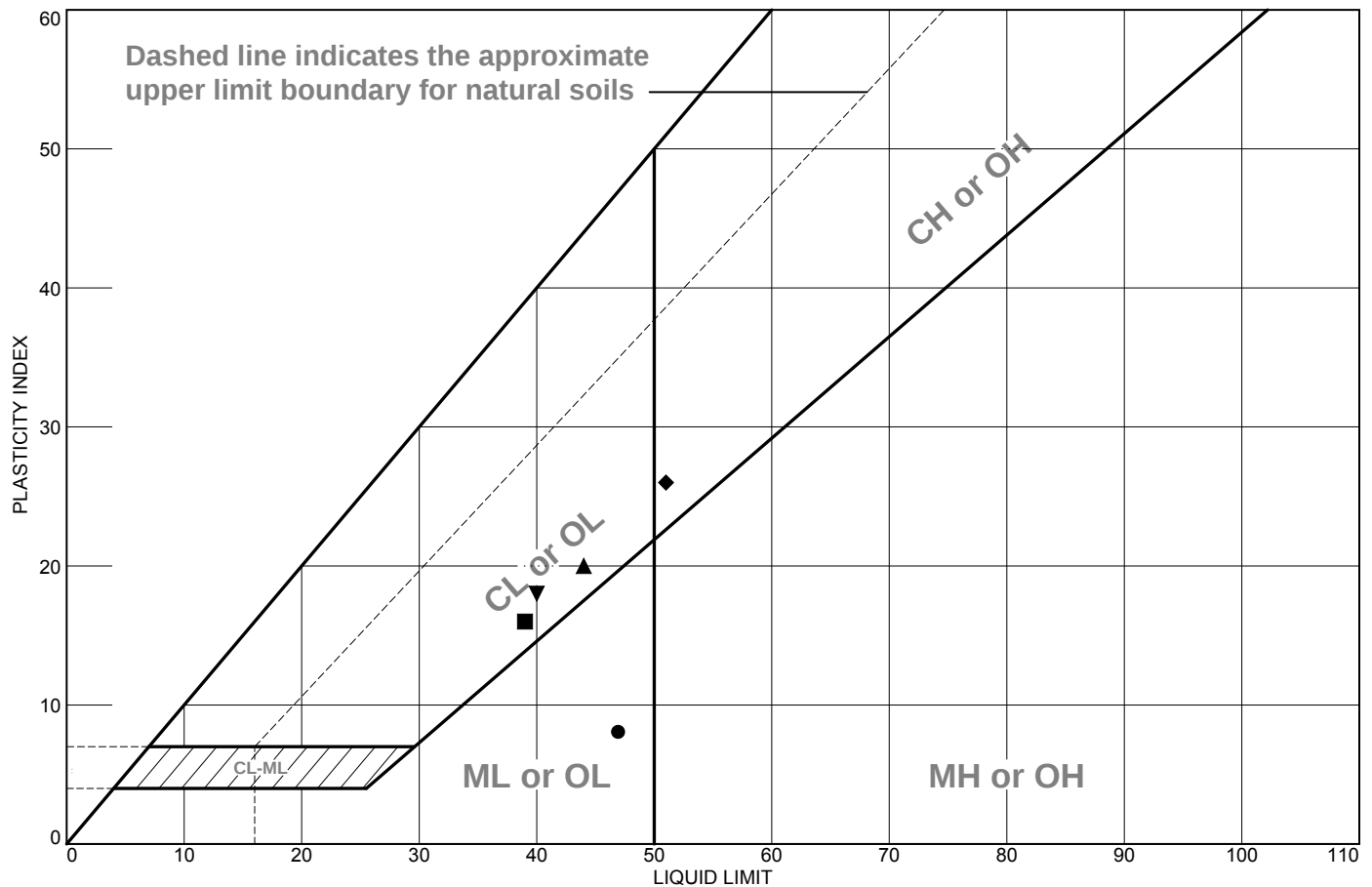
Sample Number: SFAP 1

Date: 9-9-25

RSA Geolab Union, New Jersey	Client: Alliance Technical Group Project: Q2850 - OVEC - Kyger Creek
	Project No: 889 Figure

Tested By: CS Checked By: KH

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Dark Gray sandy silt	47	39	8	78.1	67.1	ML
■	Brown lean clay with gravel	39	23	16	81.1	78.2	CL
▲	Brownish Yellow lean clay with sand	44	24	20	86.4	80.3	CL
◆	Brownish Yellow clayey gravel with sand	51	25	26	51.9	43.1	GC
▼	Brownish Yellow lean clay with gravel	40	22	18	82.8	73.7	CL

Project No. 889 Client: Alliance Technical Group

Project: Q2850 - OVEC - Kyger Creek

● Sample Number: SFAP 1

■ Sample Number: NSP 5

▲ Sample Number: NSP 3

◆ Sample Number: NSP 1

▼ Sample Number: NSP 4

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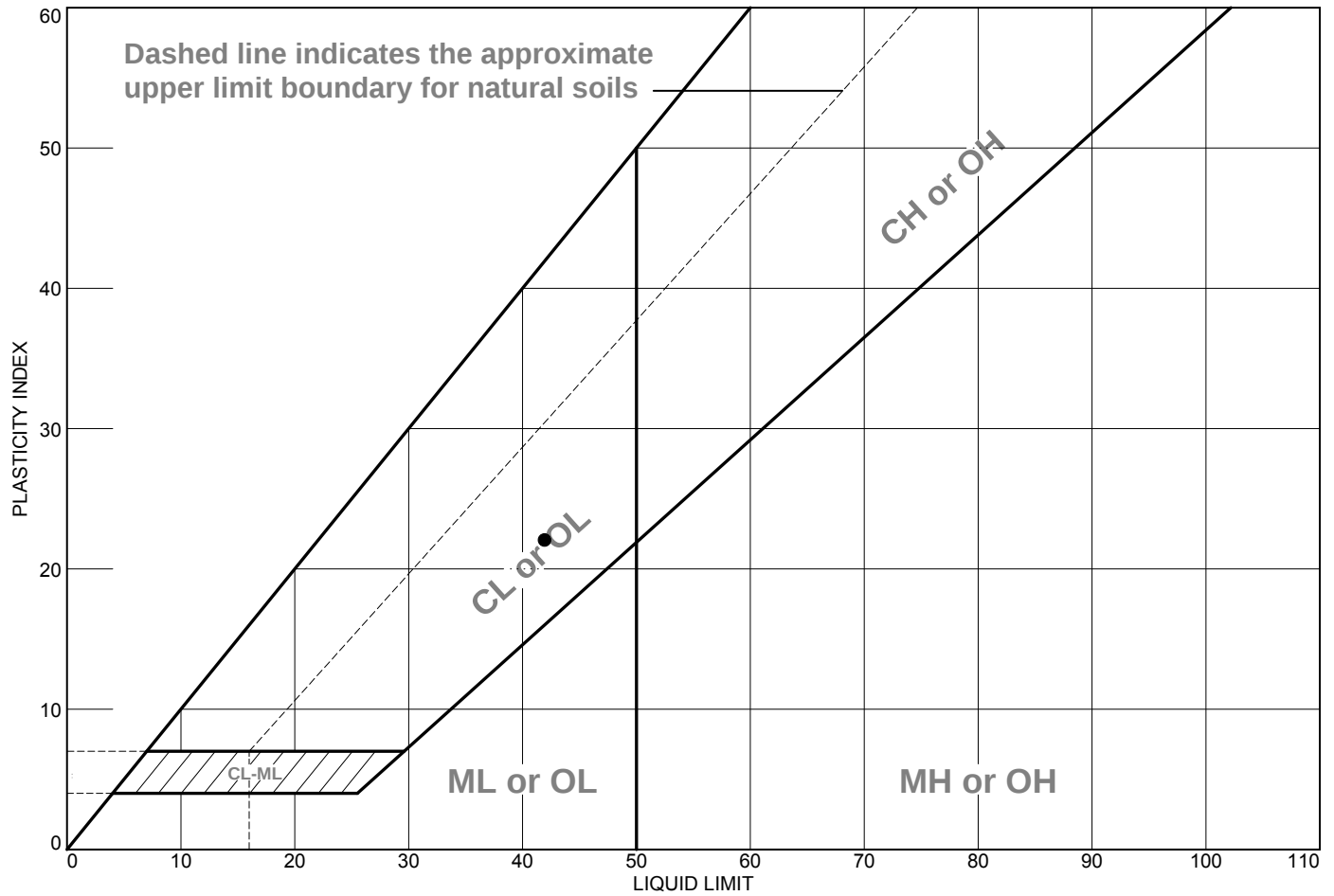
Remarks:

● 9-9-25

Figure

Tested By: SP Checked By: KH

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Brownish Yellow lean clay with sand	42	20	22	80.5	75.3	CL

Project No. 889 Client: Alliance Technical Group

Project: Q2850 - OVEC - Kyger Creek

● Sample Number: NSP 2

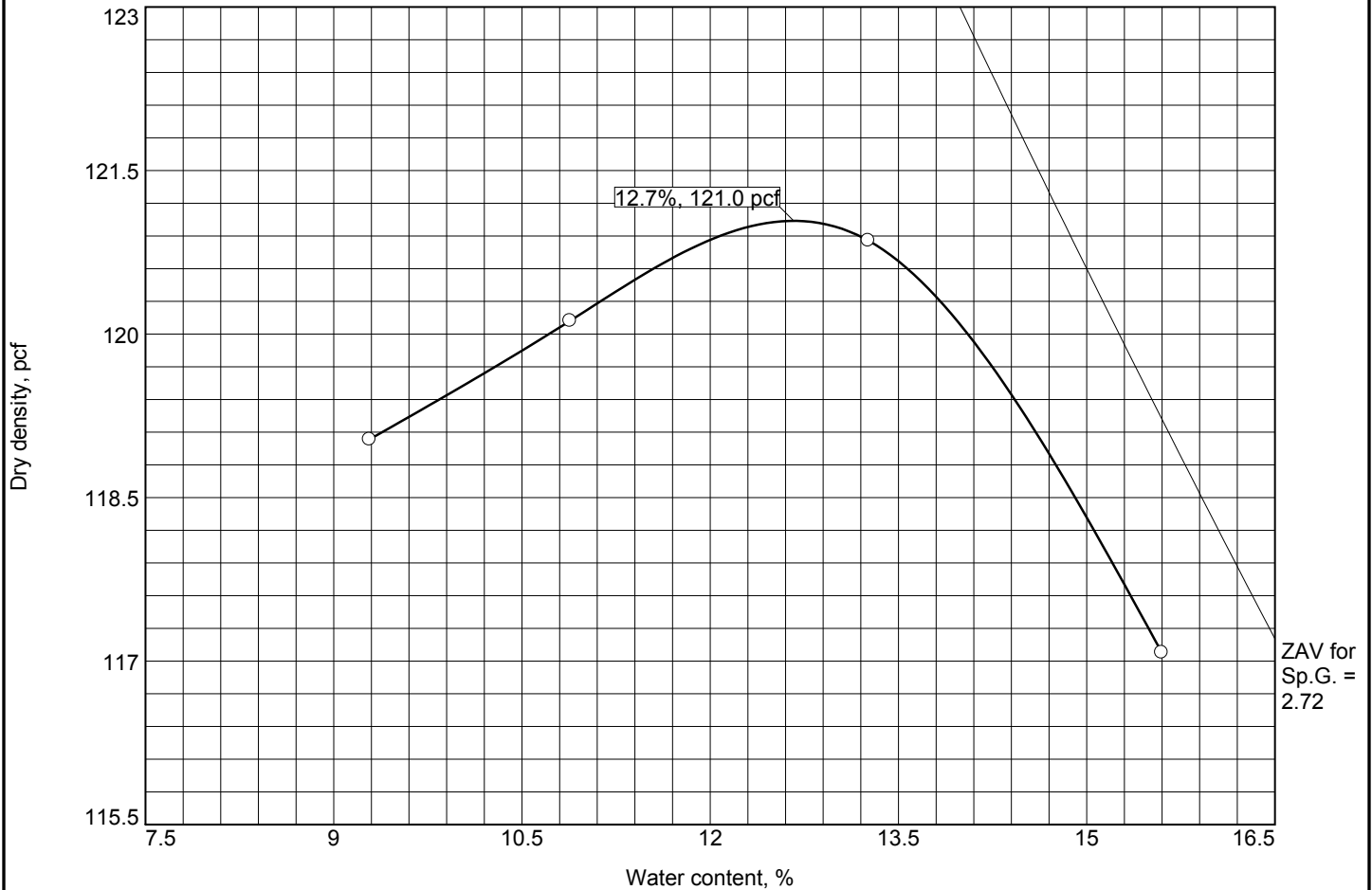
Remarks:

RSA Geolab

Union, New Jersey

Figure

COMPACTION TEST REPORT



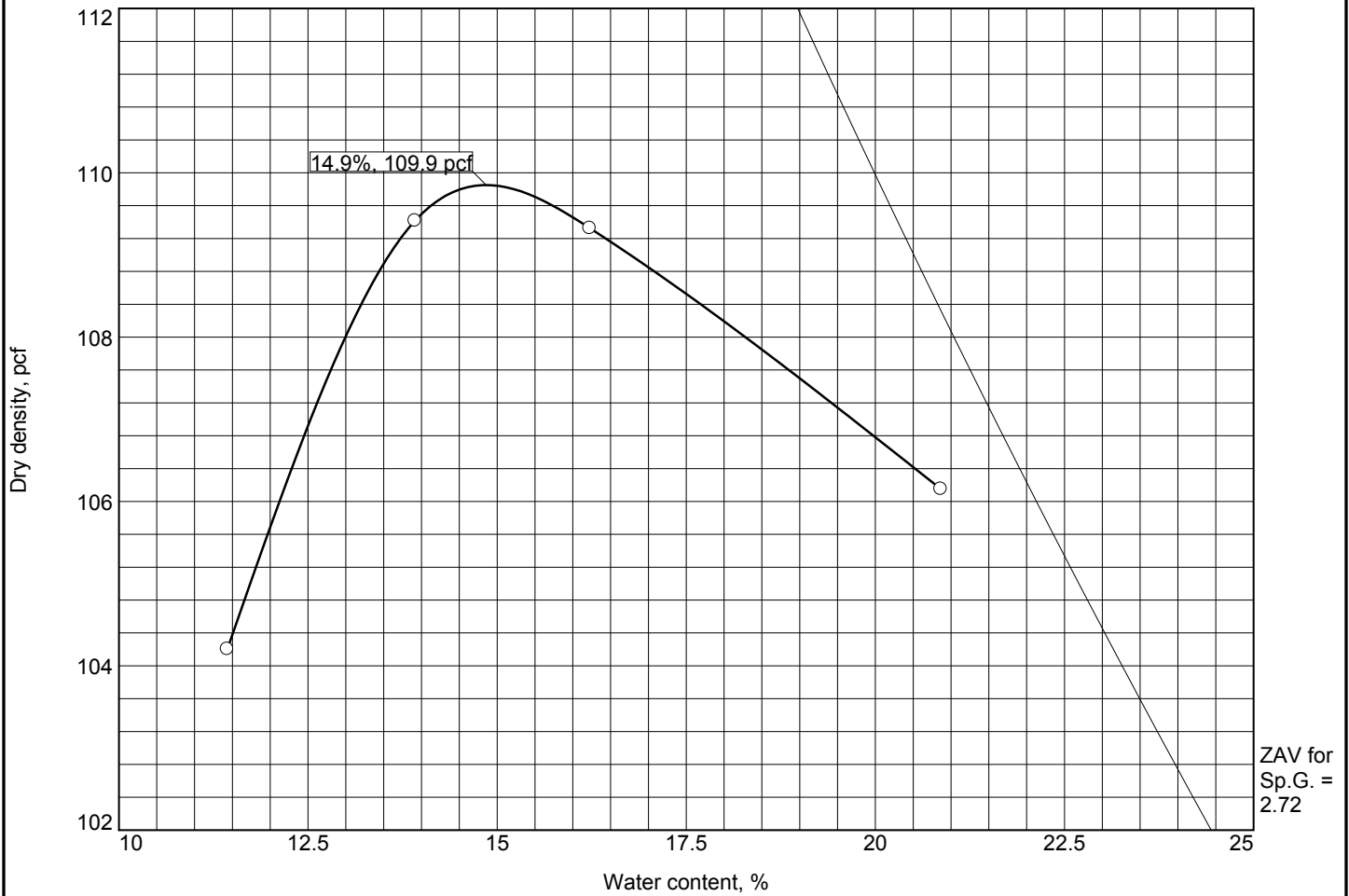
Test specification: ASTM D 698-12 Method B Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	GC	A-7-6(7)		2.72	51	26	30.5	43.1

ROCK CORRECTED TEST RESULTS		UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 121.0 pcf		107.5 pcf	Brownish Yellow clayey gravel with sand
Optimum moisture = 12.7 %		18.1 %	
Project No. 889 Client: Alliance Technical Group Project: Q2850 - OVEC - Kyger Creek ☐ Sample Number: NSP 1			Remarks: SG Assumed. Machine tested. 9-9-25

Tested By: DR Checked By: KP

COMPACTION TEST REPORT



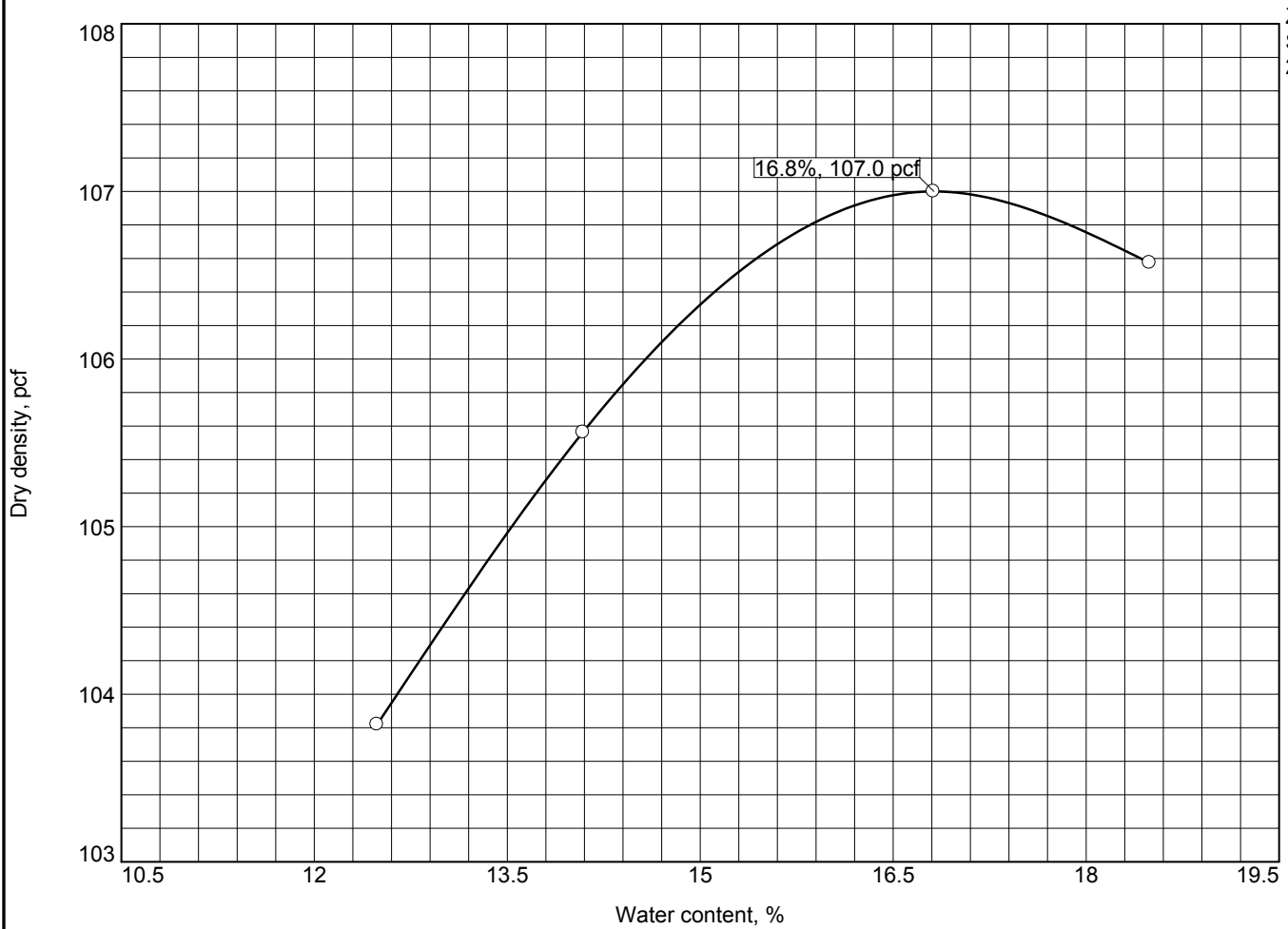
Test specification: ASTM D 698-12 Method B Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	CL	A-7-6(16)		2.72	42	22	5.3	75.3

ROCK CORRECTED TEST RESULTS		UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 109.9 pcf		107.7 pcf	Brownish Yellow lean clay with sand
Optimum moisture = 14.9 %		15.7 %	
Project No. 889 Client: Alliance Technical Group Project: Q2850 - OVEC - Kyger Creek ☐ Sample Number: NSP 2			Remarks: SG Assumed. Machine tested. 9-9-25
RSA Geolab Union, New Jersey			

Tested By: DR Checked By: KP

COMPACTION TEST REPORT



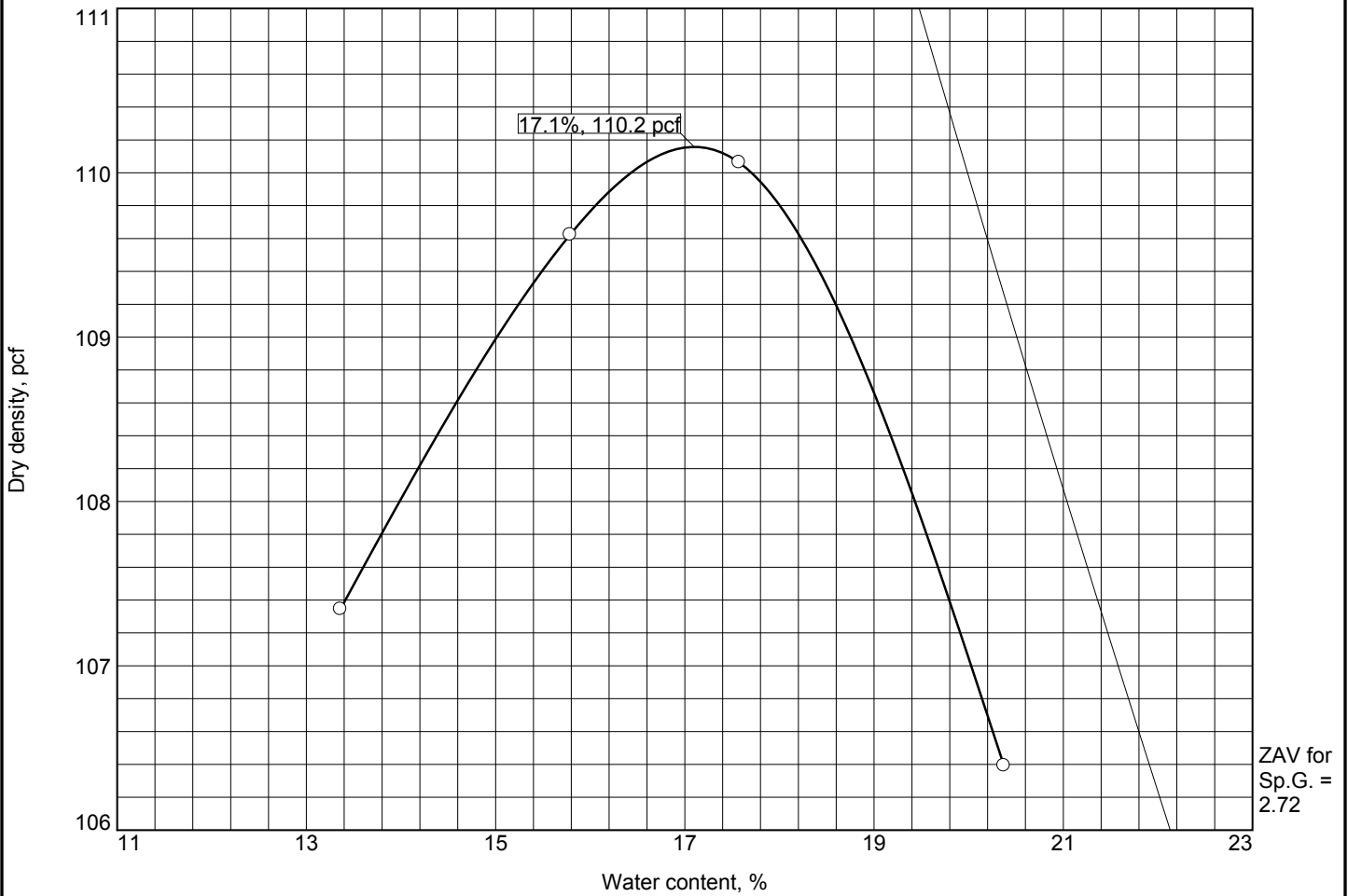
Test specification: ASTM D 698-12 Method B Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	CL	A-7-6(16)		2.72	44	20	3.1	80.3

ROCK CORRECTED TEST RESULTS		UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 107.0 pcf		105.7 pcf	Brownish Yellow lean clay with sand
Optimum moisture = 16.8 %		17.3 %	
Project No. 889 Client: Alliance Technical Group Project: Q2850 - OVEC - Kyger Creek ○ Sample Number: NSP 3 RSA Geolab Union, New Jersey			Remarks: SG Assumed. Machine tested. 9-9-25 Figure

Tested By: DR Checked By: KP

COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method B Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

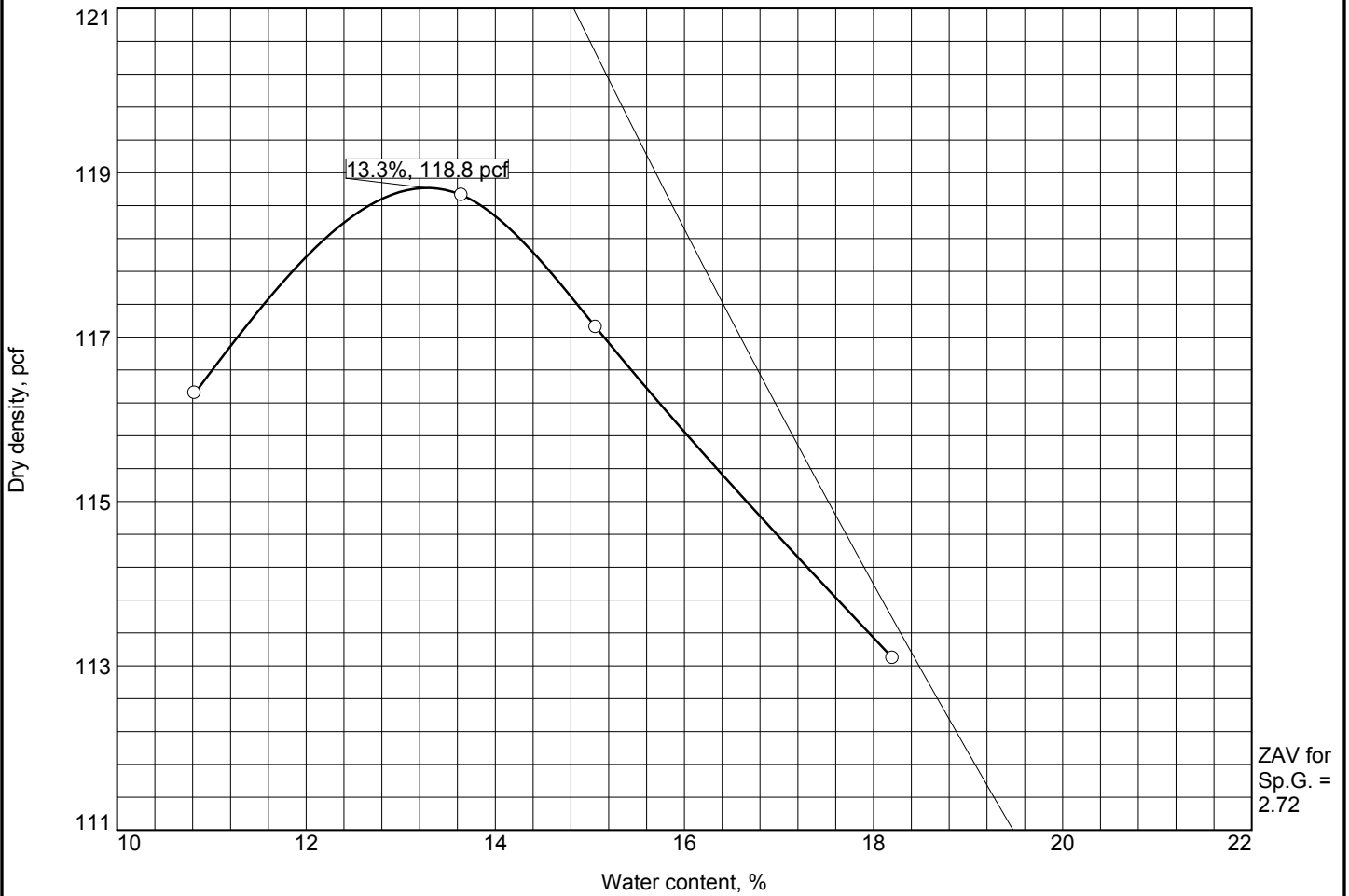
Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	CL	A-6(13)		2.72	40	18	10.8	73.7

ROCK CORRECTED TEST RESULTS		UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 110.2 pcf		105.7 pcf	Brownish Yellow lean clay with gravel
Optimum moisture = 17.1 %		19.1 %	
Project No. 889 Client: Alliance Technical Group Project: Q2850 - OVEC - Kyger Creek ☐ Sample Number: NSP 4			Remarks: SG Assumed. Machine tested. 9-9-25
RSA Geolab Union, New Jersey			

Figure

Tested By: DR Checked By: KP

COMPACTION TEST REPORT



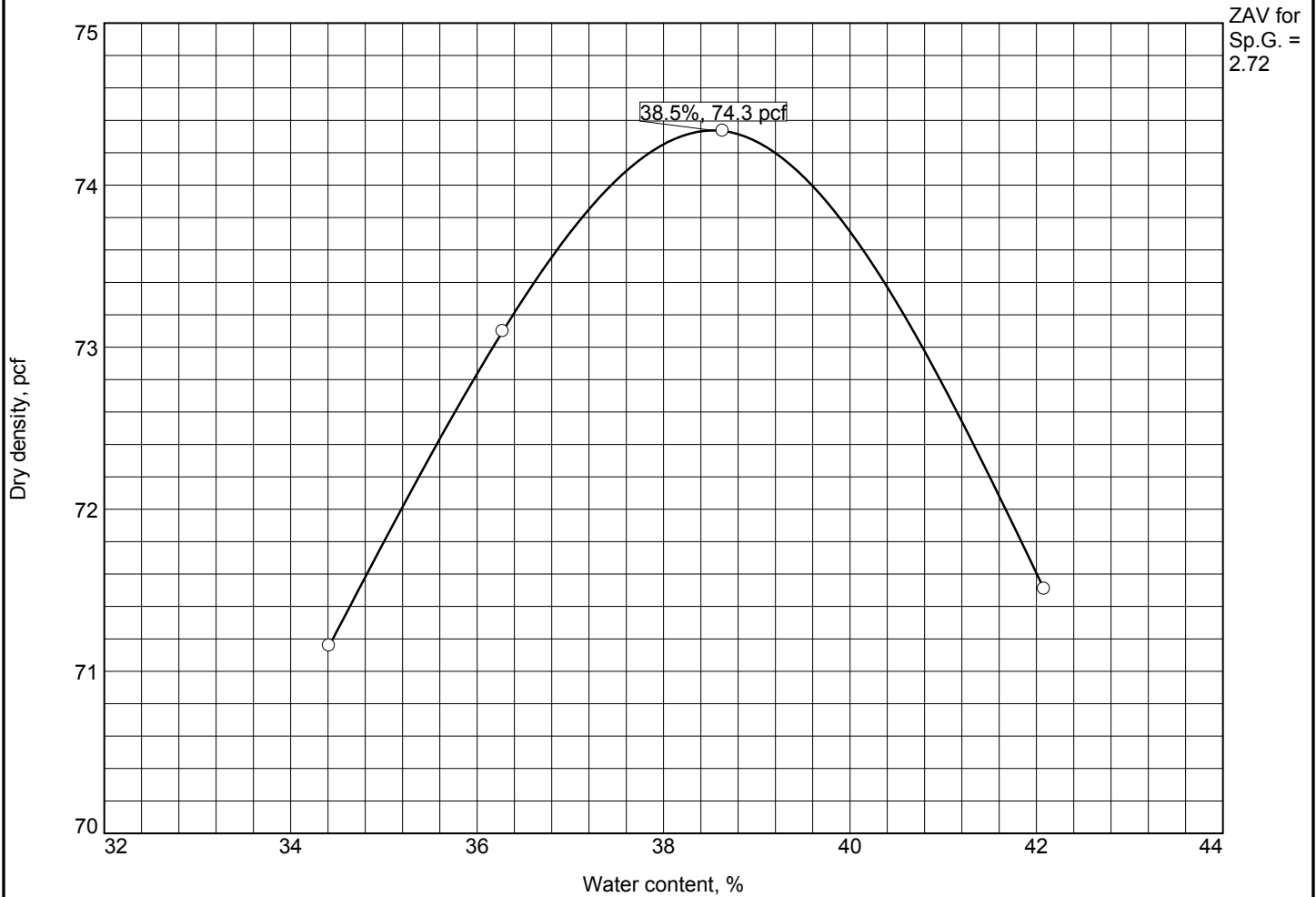
Test specification: ASTM D 698-12 Method B Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	CL	A-6(12)		2.72	39	16	11.8	78.2

ROCK CORRECTED TEST RESULTS		UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 118.8 pcf		114.2 pcf	Brown lean clay with gravel
Optimum moisture = 13.3 %		15.0 %	
Project No. 889 Client: Alliance Technical Group Project: Q2850 - OVEC - Kyger Creek ☐ Sample Number: NSP 5			Remarks: SG Assumed. Machine tested. 9-9-25 <

Tested By: DR Checked By: KP

COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method B Standard

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	ML	A-5(6)		2.72	47	8	0.0	67.1
TEST RESULTS					MATERIAL DESCRIPTION			
Maximum dry density = 74.3 pcf					Dark Gray sandy silt			
Optimum moisture = 38.5 %								
Project No. 889 Client: Alliance Technical Group					Remarks: SG Assumed. Machine tested. 9-9-25			
Project: Q2850 - OVEC - Kyger Creek								
Sample Number: SFAP 1								
RSA Geolab					Figure			
Union, New Jersey								

Tested By: DR Checked By: KP



ENTACT

NO. 1 OF 1

Q2850, Q2851, Q2852

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