

DATA PACKAGE

SUB - DATA

PROJECT NAME : OVEC - KYGER CREEK

ENTACT.

150 Bay Street

Suite 806

Jersey City, NJ - 07302

Phone No: 201-356-9196

ORDER ID : Q2306

ATTENTION : Wyatt Steel



Cover Page

Order ID : Q2306

Project ID : OVEC - Kyger Creek

Client : ENTACT.

Lab Sample Number

Q2306-01
Q2306-02
Q2306-03
Q2306-04

Client Sample Number

KC-NSP-SG-001
KC-NSP-SG-002
KC-NSP-SG-003
KC-NSP-SG-004

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 10:36 am, Jun 25, 2025

Date: 6/24/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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: 6-24-25

Job No.: 889

Lab Log: 25-4223

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

CC: Jordan Hedvat, projectmanagers@chemtech.net

Re: Q2306 – OVEC – Kyger Creek

Sample(s) ID: **KC-NSP-SG-001, -002, -003, -004**

Dear Yazmeen,

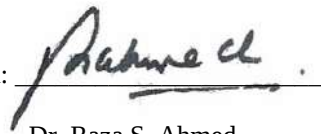
Please find attached results for the samples referenced above. The following lab testing was performed:

- ASTM D422 Sieve & Hydrometer Analysis (4 tests)
- ASTM D4318 Atterberg Limits (4 tests)
- ASTM D698 Standard Proctor (4 tests)
- ASTM D2487 USCS Classification (4 samples)

Regards,
RSA Geolab, LLC

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

Signed: _____

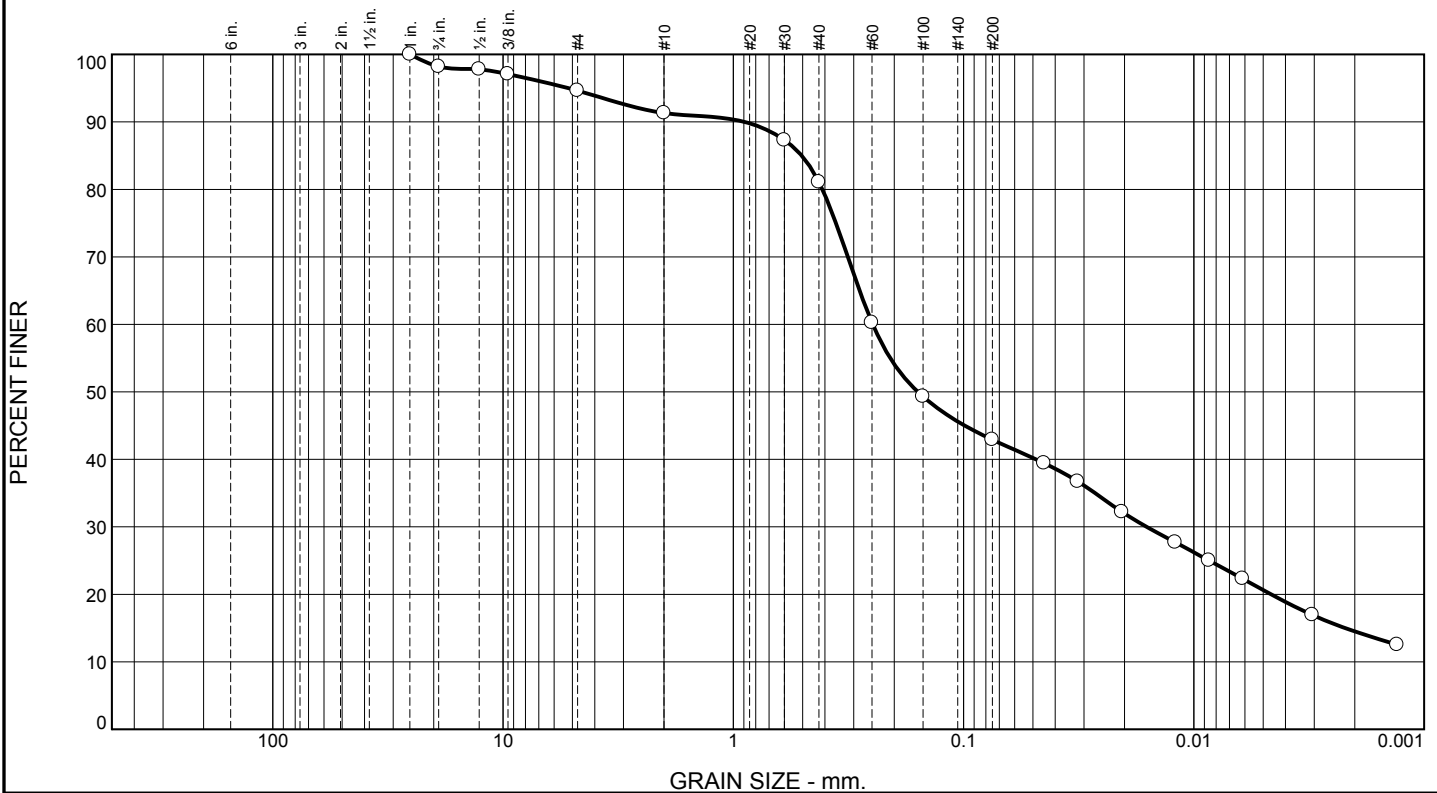

Dr. Raza S. Ahmed
President RSA Geolab, LLC

<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	1.8	3.6	3.3	10.2	38.2	22.3	20.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1	100.0		
.75	98.2		
.5	97.8		
.375	97.1		
#4	94.6		
#10	91.3		
#30	87.3		
#40	81.1		
#60	60.3		
#100	49.3		
#200	42.9		

* (no specification provided)

Sample Number: KC-NSP-SG-001

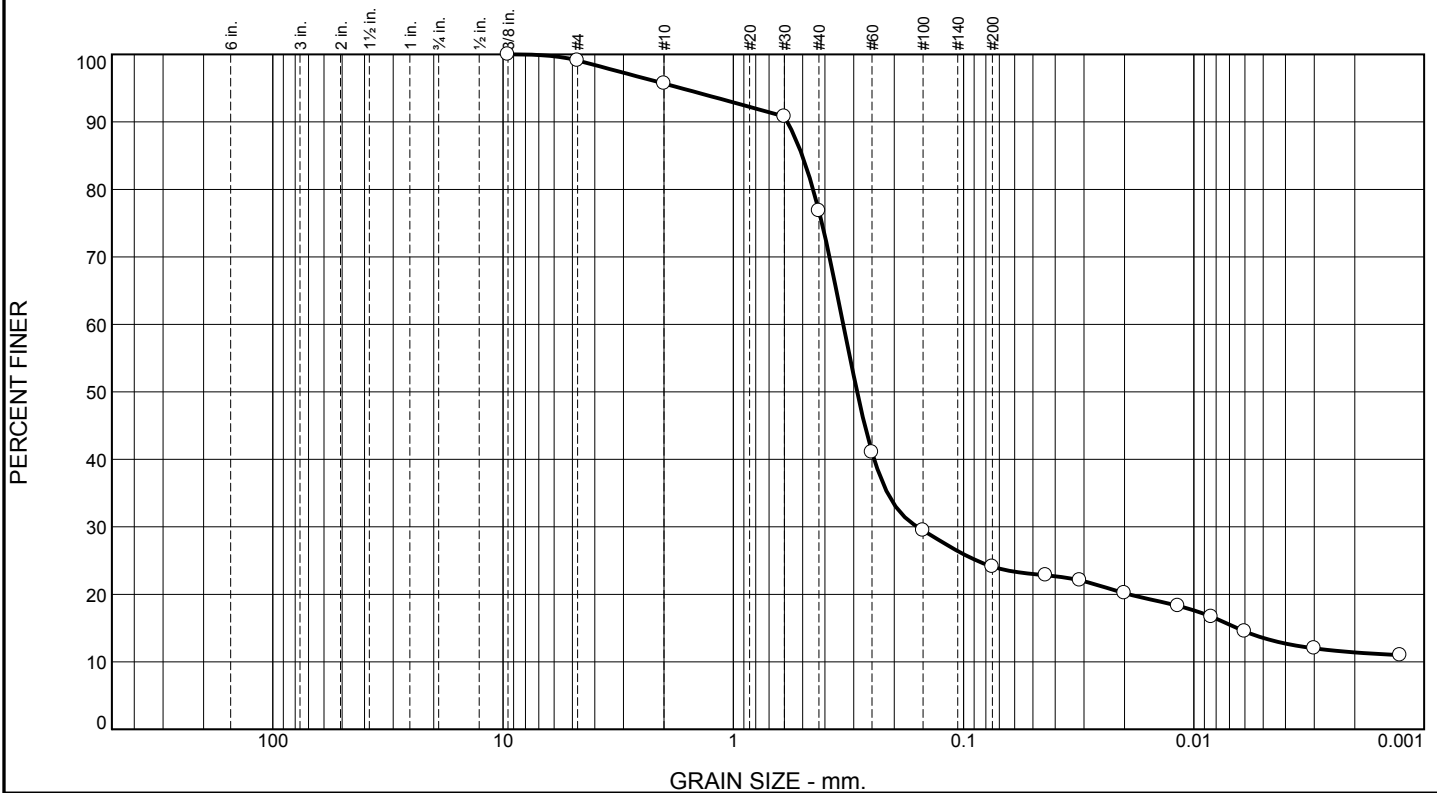
<u>Material Description</u>		
Yellowish Brown clayey sand		
<u>Atterberg Limits</u>		
PL= 18	LL= 30	PI= 12
<u>Coefficients</u>		
D ₉₀ = 0.8948	D ₈₅ = 0.5045	D ₆₀ = 0.2481
D ₅₀ = 0.1580	D ₃₀ = 0.0160	D ₁₅ = 0.0022
D ₁₀ =	C _u =	C _c =
<u>Classification</u>		
USCS= SC	AASHTO= A-6(2)	
<u>Remarks</u>		

Date: 6/24/25

RSA Geolab Union, New Jersey	Client: Alliance Technical Group Project: Q2306 - OVEC - Kyger Creek
	Project No: 889 Figure

Tested By: OH Checked By: KP

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.9	3.4	18.9	52.7	10.6	13.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100.0		
#4	99.1		
#10	95.7		
#30	90.8		
#40	76.8		
#60	41.0		
#100	29.5		
#200	24.1		

* (no specification provided)

Sample Number: KC-NSP-SG-002

Material Description
Yellowish Brown clayey sand

Atterberg Limits
 PL= 21 LL= 39 PI= 18

Coefficients
 D₉₀= 0.5823 D₈₅= 0.5018 D₆₀= 0.3333
 D₅₀= 0.2901 D₃₀= 0.1589 D₁₅= 0.0065
 D₁₀= C_u= C_c=

Classification
 USCS= SC AASHTO= A-2-6(1)

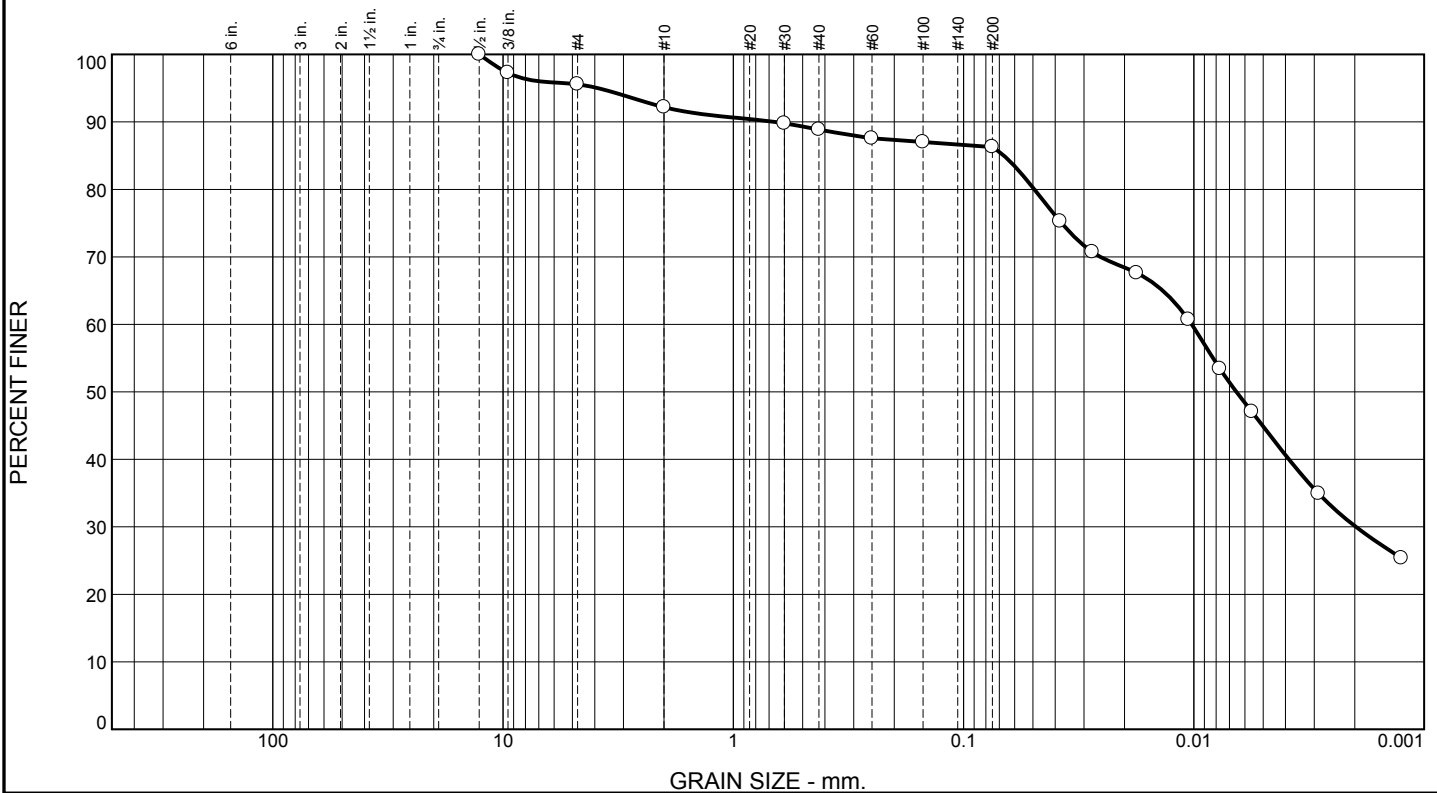
Remarks

Date: 6/24/25

RSA Geolab Union, New Jersey	Client: Alliance Technical Group Project: Q2306 - OVEC - Kyger Creek
	Project No: 889 Figure

Tested By: OH Checked By: KP

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	4.4	3.4	3.3	2.6	41.4	44.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.5	100.0		
.375	97.3		
#4	95.6		
#10	92.2		
#30	89.8		
#40	88.9		
#60	87.6		
#100	87.0		
#200	86.3		

* (no specification provided)

Material Description
Olive Yellow elastic silt

PL= 34 **Atterberg Limits** LL= 59 PI= 25

Coefficients
D₉₀= 0.6642 D₈₅= 0.0668 D₆₀= 0.0102
D₅₀= 0.0065 D₃₀= 0.0020 D₁₅=
D₁₀= C_u= C_c=

Classification
USCS= MH AASHTO= A-7-5(26)

Remarks

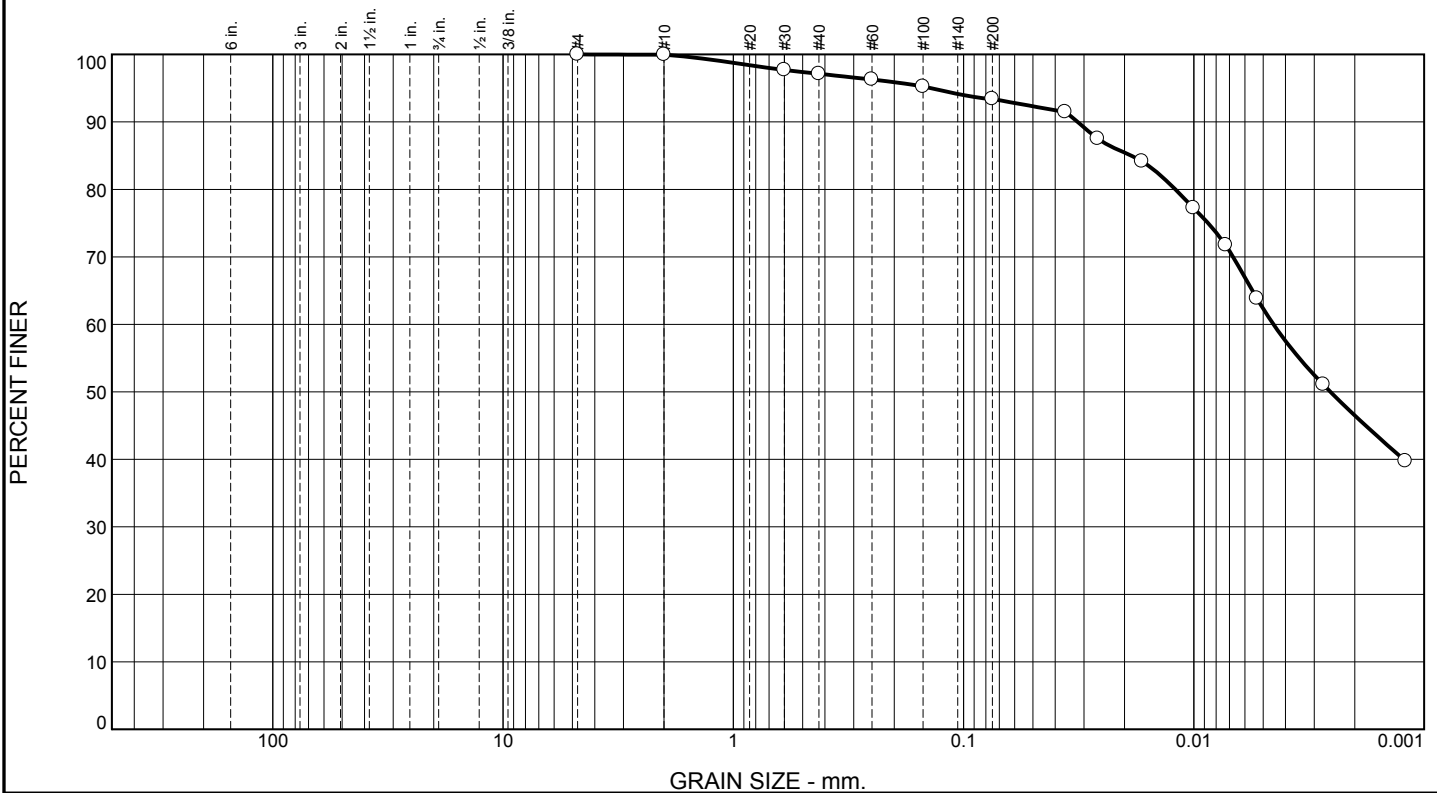
Sample Number: KC-NSP-SG-003

Date: 6/24/25

RSA Geolab Union, New Jersey	Client: Alliance Technical Group Project: Q2306 - OVEC - Kyger Creek
	Project No: 889 Figure

Tested By: OH Checked By: KP

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	2.9	3.7	31.1	62.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	100.0		
#30	97.7		
#40	97.1		
#60	96.3		
#100	95.2		
#200	93.4		

* (no specification provided)

Sample Number: KC-NSP-SG-004

Material Description
Olive Yellow fat clay

PL= 26 **Atterberg Limits** LL= 56 PI= 30

Coefficients
D₉₀= 0.0320 D₈₅= 0.0187 D₆₀= 0.0045
D₅₀= 0.0026 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification
USCS= CH AASHTO= A-7-6(32)

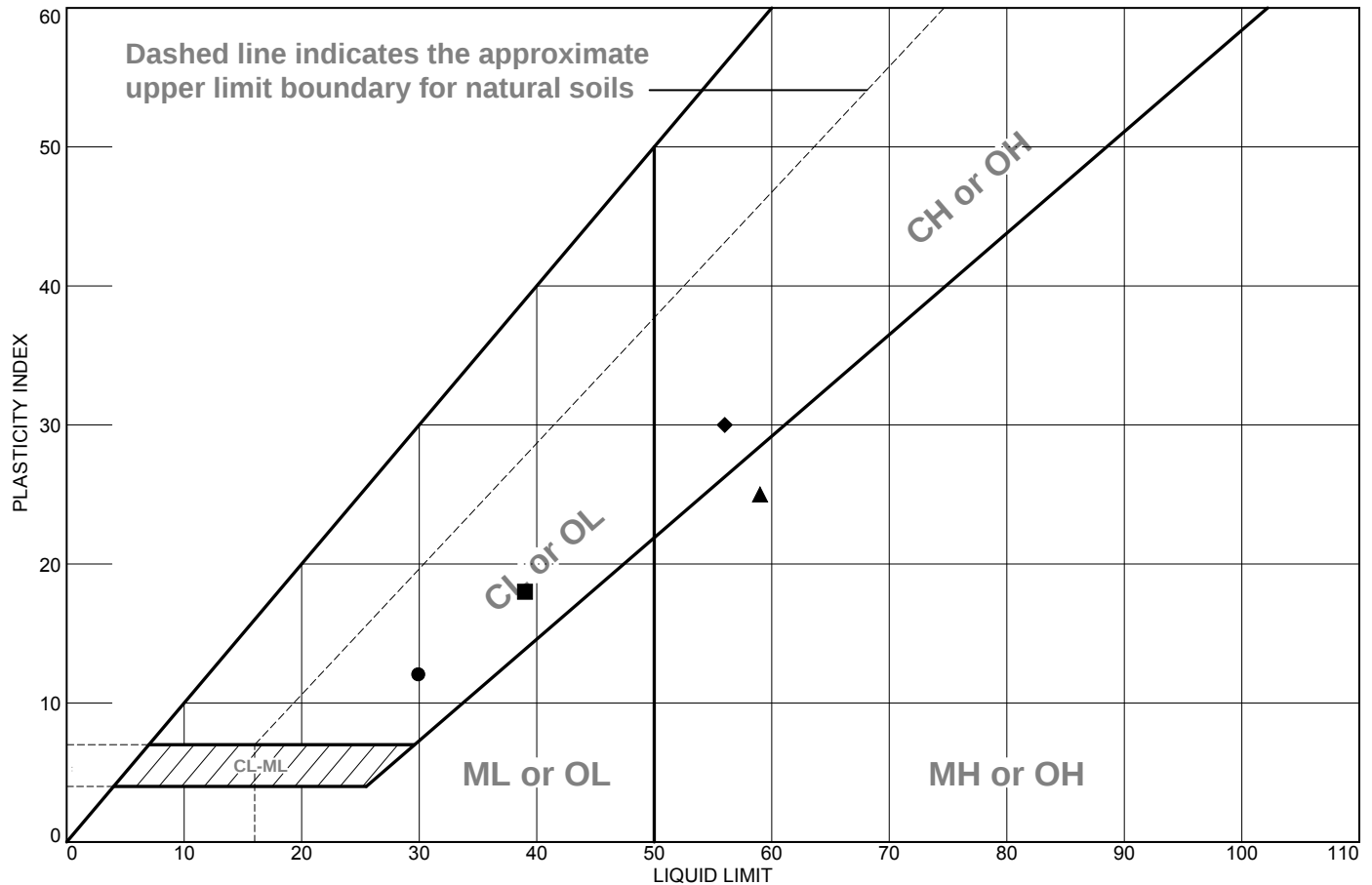
Remarks

Date: 6/24/25

RSA Geolab Union, New Jersey	Client: Alliance Technical Group Project: Q2306 - OVEC - Kyger Creek
	Project No: 889 Figure

Tested By: OH Checked By: KP

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Yellowish Brown clayey sand	30	18	12	81.1	42.9	SC
■	Yellowish Brown clayey sand	39	21	18	76.8	24.1	SC
▲	Olive Yellow elastic silt	59	34	25	88.9	86.3	MH
◆	Olive Yellow fat clay	56	26	30	97.1	93.4	CH

Project No. 889 Client: Alliance Technical Group

Project: Q2306 - OVEC - Kyger Creek

● Sample Number: KC-NSP-SG-001

■ Sample Number: KC-NSP-SG-002

▲ Sample Number: KC-NSP-SG-003

◆ Sample Number: KC-NSP-SG-004

RSA Geolab

Union, New Jersey

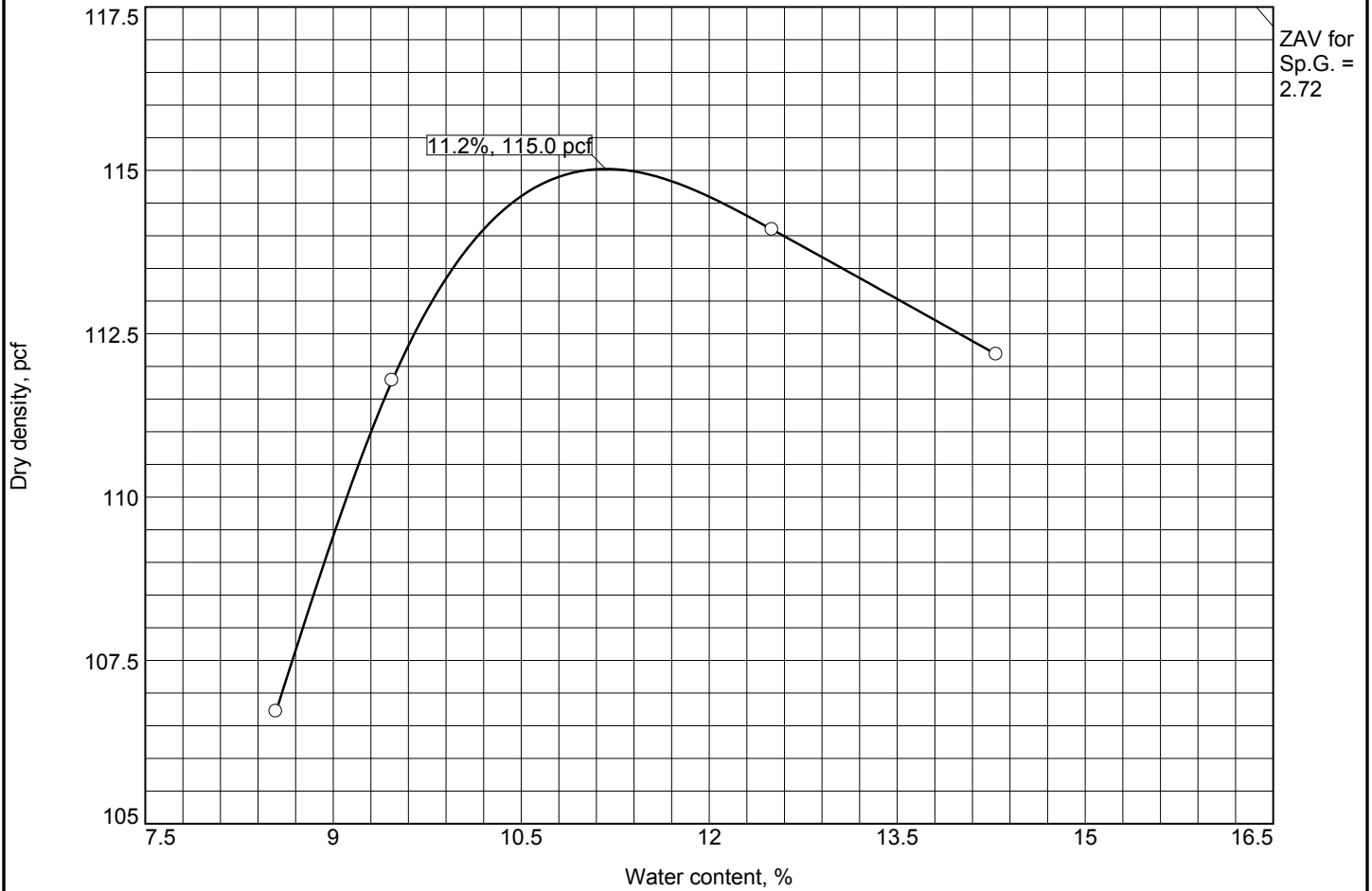
Remarks:

● 6-24-25

Figure

Tested By: JK Checked By: KP

COMPACTION TEST REPORT



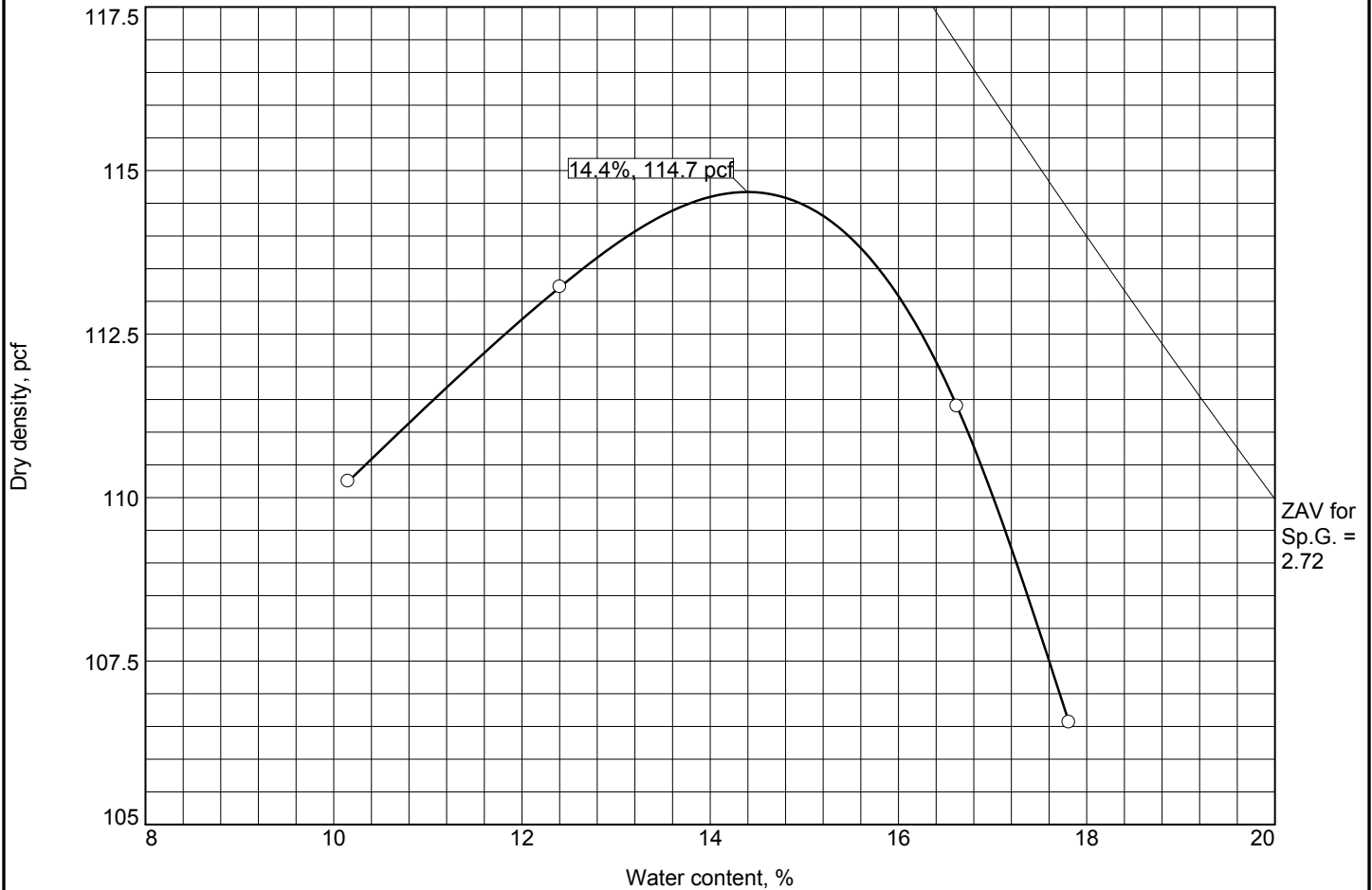
Test specification: ASTM D 698-91 Procedure B Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	SC	A-6(2)		2.72	30	12	2.9	42.9

ROCK CORRECTED TEST RESULTS		UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 115.0 pcf		113.9 pcf	Yellowish Brown clayey sand
Optimum moisture = 11.2 %		11.5 %	
Project No. 889 Client: Alliance Technical Group Project: Q2306 - OVEC - Kyger Creek ☐ Sample Number: KC-NSP-SG-001			Remarks: SG Assumed. Machine tested. 6-24-25
RSA Geolab Union, New Jersey			

Tested By: DR Checked By: KP

COMPACTION TEST REPORT

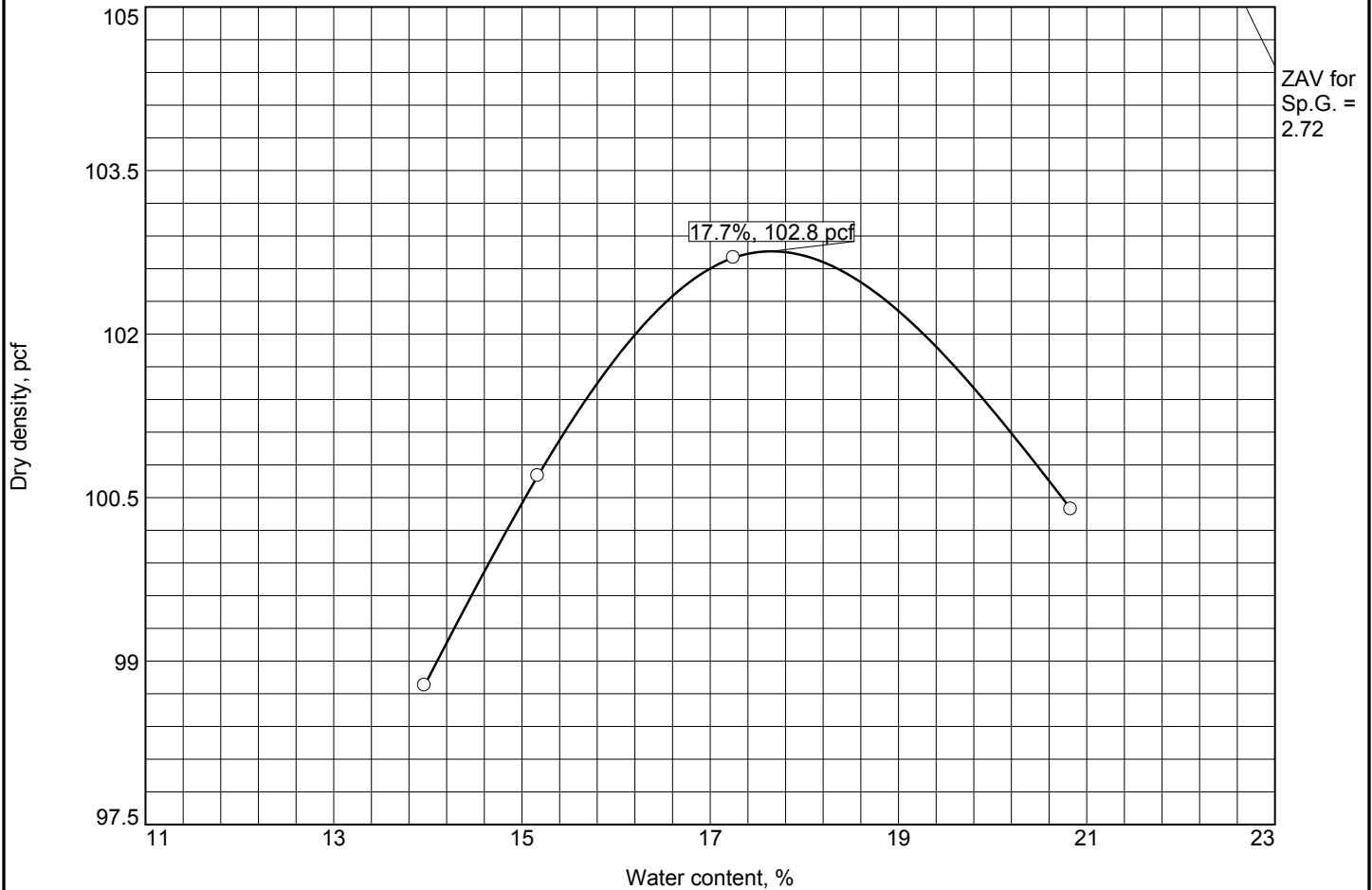


Test specification: ASTM D 698-91 Procedure B Standard

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	SC	A-2-6(1)		2.72	39	18	0.0	24.1
TEST RESULTS					MATERIAL DESCRIPTION			
Maximum dry density = 114.7 pcf					Yellowish Brown clayey sand			
Optimum moisture = 14.4 %								
Project No. 889 Client: Alliance Technical Group					Remarks: SG Assumed. Machine tested. 6-24-25			
Project: Q2306 - OVEC - Kyger Creek								
Sample Number: KC-NSP-SG-002								
RSA Geolab					Figure			
Union, New Jersey								

Tested By: DR Checked By: KP

COMPACTION TEST REPORT



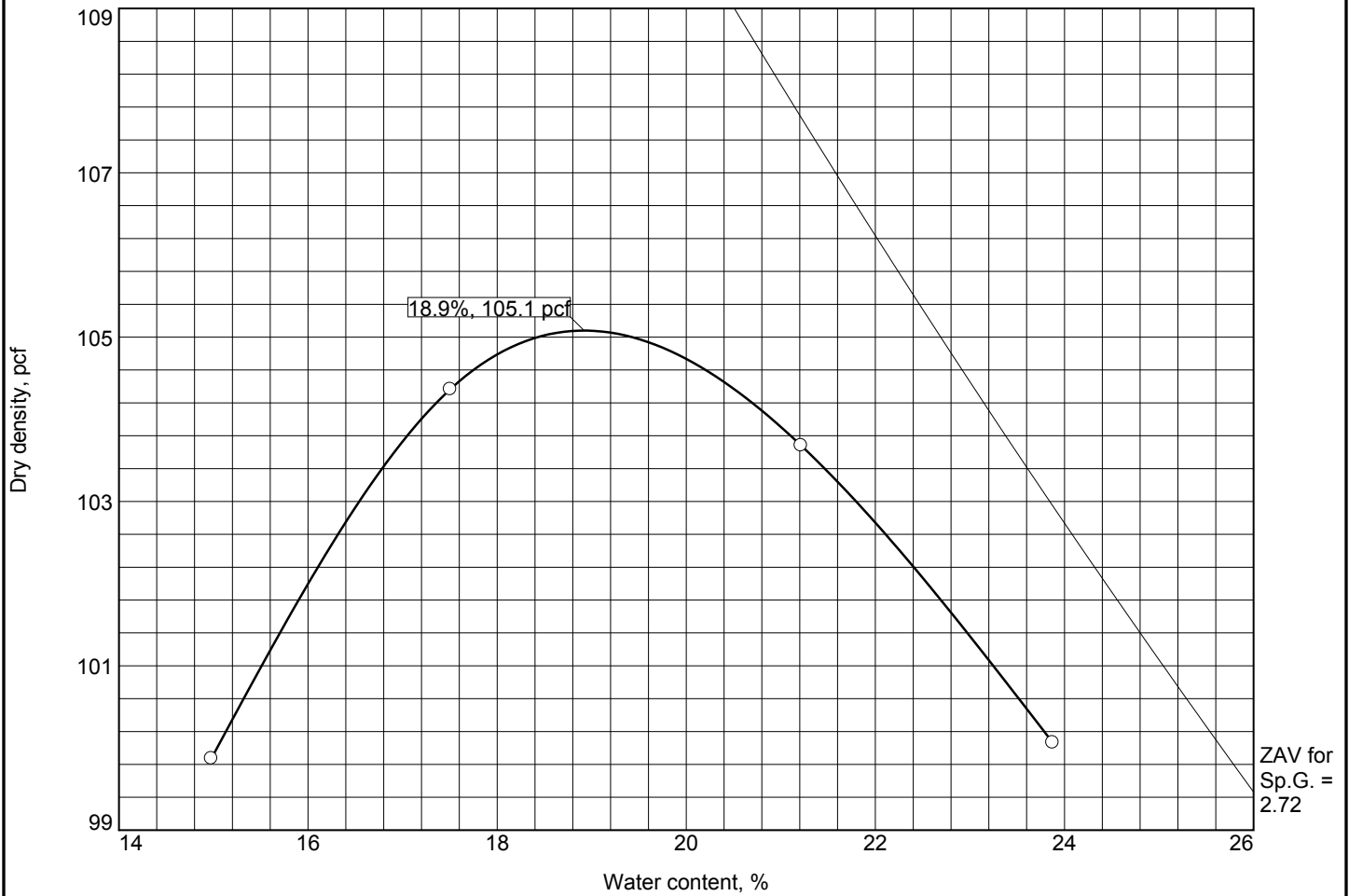
Test specification: ASTM D 698-91 Procedure B Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	MH	A-7-5(26)		2.72	59	25	2.7	86.3

ROCK CORRECTED TEST RESULTS		UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 102.8 pcf		101.6 pcf	Olive Yellow elastic silt
Optimum moisture = 17.7 %		18.1 %	
Project No. 889 Client: Alliance Technical Group Project: Q2306 - OVEC - Kyger Creek ○ Sample Number: KC-NSP-SG-003			Remarks: SG Assumed. Machine tested. 6-24-25
RSA Geolab Union, New Jersey			
			Figure

Tested By: DR Checked By: KP

COMPACTION TEST REPORT



Test specification: ASTM D 698-91 Procedure B Standard

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	CH	A-7-6(32)		2.72	56	30	0.0	93.4

TEST RESULTS		MATERIAL DESCRIPTION
Maximum dry density = 105.1 pcf Optimum moisture = 18.9 %		Olive Yellow fat clay
Project No. 889 Client: Alliance Technical Group Project: Q2306 - OVEC - Kyger Creek ○ Sample Number: KC-NSP-SG-004		Remarks: SG Assumed. Machine tested. 6-24-25
RSA Geolab Union, New Jersey		

Figure

Tested By: DR Checked By: KP



CHAIN OF CUSTODY RECORD

Q2306

NO. 1 OF 1

COMPANY INFORMATION			PROJECT INFORMATION				REQUESTED ANALYSIS/METHOD										COMMENTS
LOCATION	ATTN	ADDRESS	PROJECT	BILLING INFORMATION	BILL TO	ADDRESS	PHONE	FAX	PO#	NUMBER OF CONTAINERS	Standard Proctor (ASTM D698)	Soil Classification (ASTM D2487)	Hydraulic Conductivity (ASTM D5084)	Sieve and Hydrometer (ASTM D422)	Atterberg Limits (ASTM D4318)		
ENTACT LLC	Wyatt Seel	150 Bay Street, Suite 801 Jersey City, NJ	Kyger Creek		ENTACT LLC	999 Oakmont Plaza Drive Suite 300 Westmont, IL 60559	630-986-2900		E9412								
PHONE	419-266-4671																
EMAIL	wseel@entact.com																
SAMPLE ID	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	SAMPLE TYPE	CONTAINER TYPE											
KC-NSP-SG-001	Subgrade Soil	6/11/25	13:00	S	Grab	5-gallon Bucket	1	X	X	X	X	X					
KC-NSP-SG-002	Subgrade Soil	6/11/25	13:00	S	Grab	5-gallon Bucket	1	X	X	X	X	X					
KC-NSP-SG-003	Subgrade Soil	6/11/25	13:00	S	Grab	5-gallon Bucket	1	X	X	X	X	X					
KC-NSP-SG-004	Subgrade Soil	6/11/25	13:00	S	Grab	5-gallon Bucket	1	X	X	X	X	X					
SAMPLER	J. Stanfield	SHIPMENT	Dropoff	AIRBILL													
REQUIRED TURNAROUND	☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☒ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER: _____																
1. RELINQUISHED BY	DATE	2. RELINQUISHED BY	DATE	3. RELINQUISHED BY	DATE												
SIGNATURE:		SIGNATURE:		SIGNATURE:													
PRINTED NAME/COMPANY: Wyatt Seel / ENTACT		PRINTED NAME/COMPANY:		PRINTED NAME/COMPANY:													
1. RECEIVED BY	DATE	2. RECEIVED BY	DATE	3. RECEIVED BY	DATE												
SIGNATURE:	30 6-12-25	SIGNATURE:		SIGNATURE:													
PRINTED NAME/COMPANY: Golse Negdan	1310	PRINTED NAME/COMPANY:		PRINTED NAME/COMPANY:													