

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 : Q2761

ATTENTION : Wyatt Steel



Cover Page

Order ID : Q2761

Project ID : OVEC - Kyger Creek

Client : ENTACT.

Lab Sample Number

Q2761-01
Q2761-02

Client Sample Number

SOIL-01
SOIL-02

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 : _____

Date: 8/17/2025

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: 8-15-25

Job No.: 889

Lab Log: 25-4390

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

CC: Jordan Hedvat, projectmanagers@chemtech.net

Re: Q2761 – OVEC – Kyger Creek

Sample(s) ID: **SOIL-01, SOIL-02**

Dear Yazmeen,

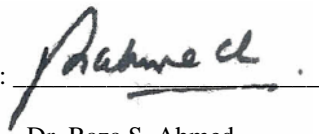
Please find attached results for the samples referenced above. The following lab testing was performed:

- ASTM D2434 Permeability (recompacted)
- ASTM C136 Gradation
- ASTM D1557 Modified Proctor (1 point)
- ASTM D3042 Insoluble Residue in Carbonate Aggregate

Regards,
RSA Geolab, LLC

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

Signed: _____

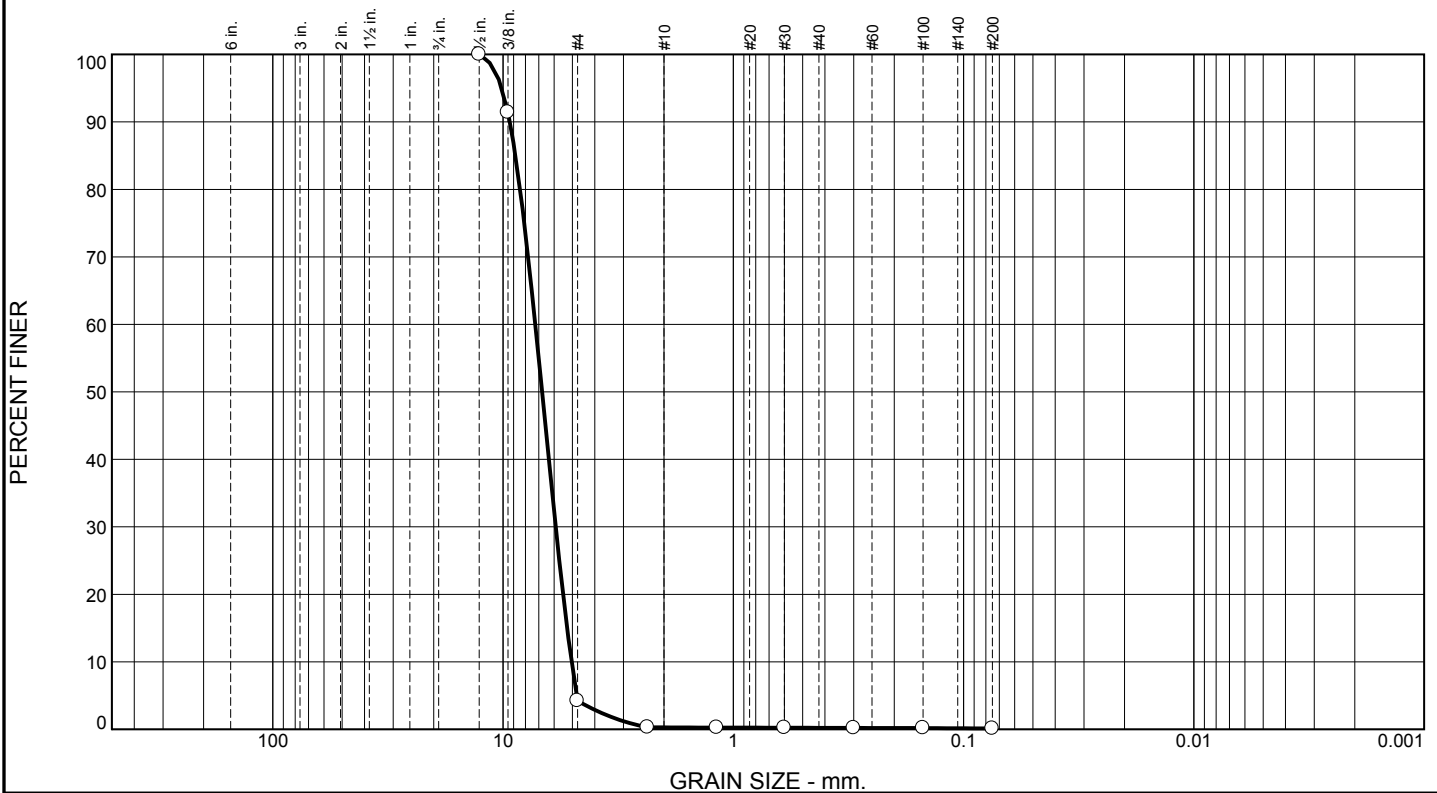

Dr. Raza S. Ahmed
President RSA Geolab, LLC

<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	0.0	95.8	3.9	0.1	0.1	0.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.5	100.0		
.375	91.4		
#4	4.2		
#8	0.3		
#16	0.3		
#30	0.2		
#50	0.2		
#100	0.2		
#200	0.1		

* (no specification provided)

Sample Number: SOIL-01

Material Description		
Grayish Brown poorly graded gravel		
<div> <div> Atterberg Limits LL= NV PI= NP </div> <div> Coefficients D₉₀= 9.3473 D₈₅= 8.8395 D₅₀= 6.7694 D₃₀= 5.9088 D₁₀= 5.0449 C_u= 1.44 </div> <div> Classification USCS= GP AASHTO= A-1-a </div> </div>		
Remarks		

Date: 8-15-25

RSA Geolab Union, New Jersey	Client: Alliance Technical Group Project: Q2761 - OVEC - Kyger Creek
	Project No: 889 Figure

Tested By: SP Checked By: KP

MOISTURE DENSITY TEST DATA

8/15/2025

Client: Alliance Technical Group

Project: Q2761 - OVEC - Kyger Creek

Project Number: 889

Sample Number: SOIL-01

Description: Grayish Brown poorly graded gravel

USCS Classification: GP

AASHTO Classification: A-1-a

Liquid Limit: NV

Plasticity Index: NP

Testing Remarks: SG Assumed.

8-15-25

Tested by: SP

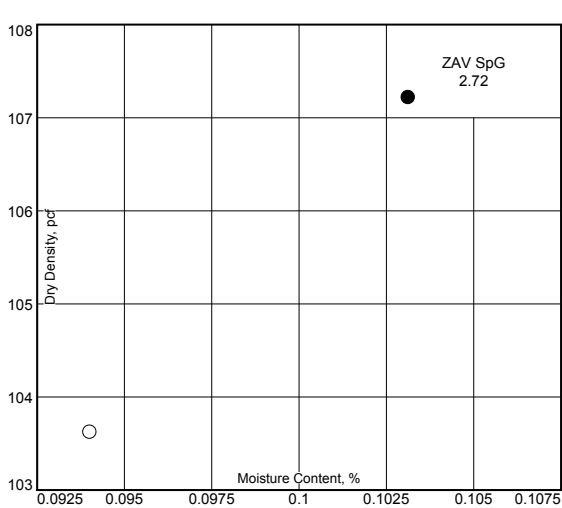
Checked by: KP

Test Data and Results

Test Specification:

Type of Test: ASTM D 1557-12 Method B Modified

Mold Dia: 4.00 **Hammer Wt.:** 10 lb. **Drop:** 18 in. **Layers:** five **Blows per Layer:** 25



Point No.	1
Wt. M+S	5730.0
Wt. M	4162.0
Wt. W+T	538.4
Wt. D+T	537.9
Tare	6.1
Moist.	0.1
Moist.*	0.1
Dry Den.*	107.2

Rock Correction Data Correction Method: ASTM D4718-15

Percentage of Oversize Material (%> 3/8 in.): 8.6 **Bulk Specific Gravity of Oversize Material:** 2.72

Oversize Material Moisture Content: .2

***Note:** the rock correction was applied to every test point's density and moisture value.

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New Jersey
1017 Greeley Ave N
Union, NJ 07083
908-964-0786

South Carolina
49 Browns Cove Road, Suite 6
Ridgeland, SC 29936
843-816-9950

Insoluble Residue in Carbonate Aggregates

ASTM D3042

Project: OVEC - Kyger Creek
Q2761
Client: Alliance Technical Group

Proj. No. 889
Date: 8-15-25

Sample: SOIL-01

Test Results:

	<u>Test #1</u>	<u>Test #2</u>	<u>Test #3</u>	<u>Average</u>
Total Percent of Insoluble Residue	93.0	93.0	93.0	93.0
Calcium Carbonate Content %	7.0	7.0	7.0	7.0

Remarks: 1. Approximate sample size: 500 grams.
2. Plus No. 200 size tested for insoluble residue.
3. Sample Description: Grayish Brown poorly graded gravel

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

Tested By: SP
Entered By: KH
Checked By: KP



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1017 Greeley Ave N
Union, NJ 07083
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49 Browns Cove Road, Suite 6
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PERMEABILITY TEST BY CONSTANT HEAD METHOD

Project: OVEC - Kyger Creek
Q2761
Client: Alliance Technical Group

Proj. #: 889
Date: 8-15-25

SAMPLE: SOIL-01

	Trial 1	Trial 2	Trial 3	Trial 4
Q ml.	5400	5310	5250	5200
L cm.	9.4742	9.4742	9.4742	9.4742
RT C	1.120	1.120	1.120	1.120
t sec.	30	30	30	30
h cms.	0.97	0.97	0.97	0.97
A sq.cms.	410.43	410.43	410.43	410.43
K 20=QLRT/ thA	4.798E+00	4.718E+00	4.664E+00	4.620E+00

Average K 20/cm.sec.

4.700E+00

Dry Density of the test specimen 96.42 P.C.F.

Initial Moisture Content 10.8 %

Final Moisture Content 5.9 %

PERMEABILITY TEST PROCEDURES

Specimen was moderately compacted in a 9" diameter and 6.50" high bucket.

A #10 sieve was used as a screen.

Length of specimen = 3.73 inches.

Remarks: Tested with tap water. Recompact to 90%MDD (ASTM D1557), as rec'd Moisture.
Grayish Brown poorly graded gravel

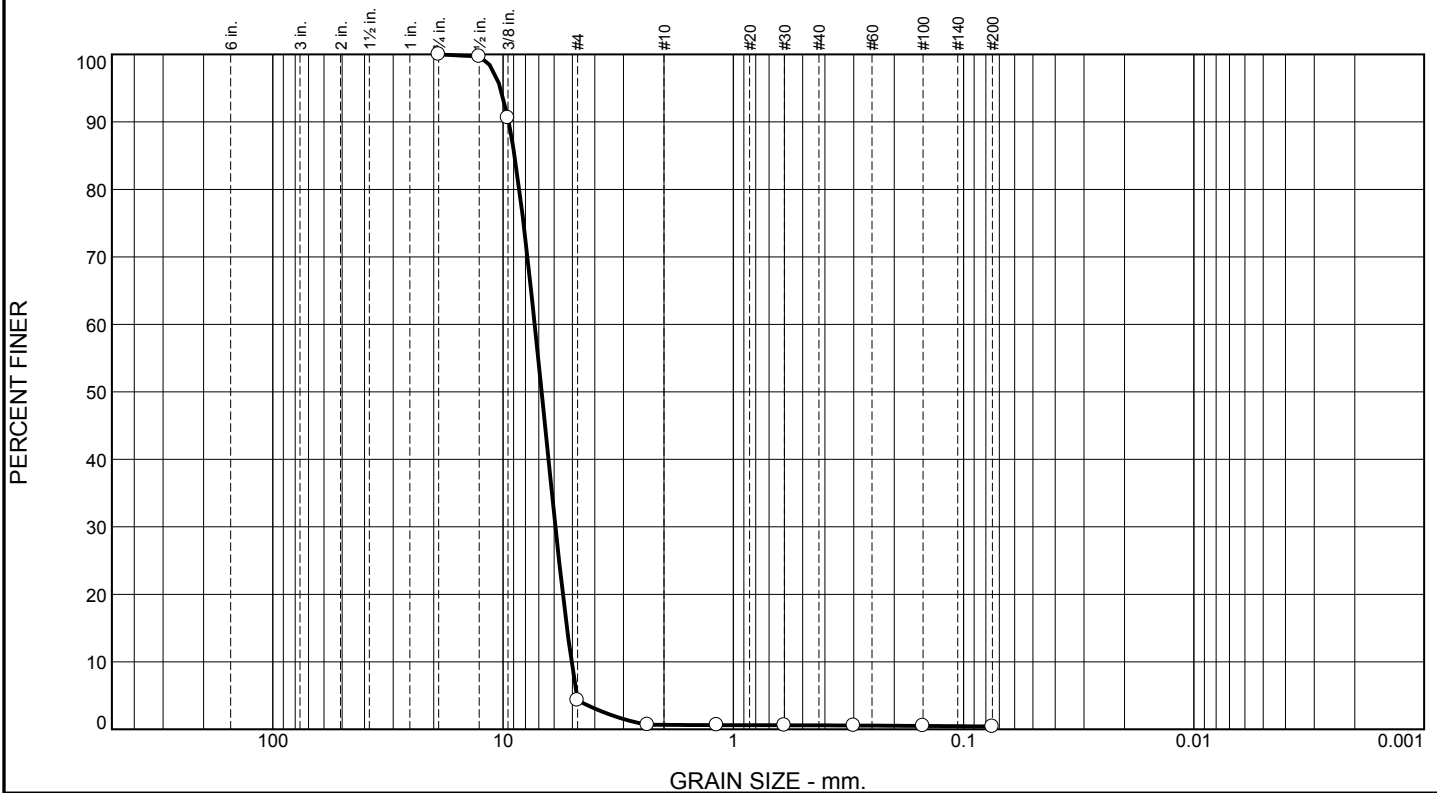
<https://www.rsageolab.com>

email: rsa@rsageolab.com

EM\NY-GL\FXDWALL\CRSGRV\Alliance SOIL-01.XLS

Performed by: OH
Computed by: KH
Checked by: KP

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	95.7	3.6	0.1	0.2	0.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.5	99.7		
.375	90.6		
#4	4.3		
#8	0.7		
#16	0.6		
#30	0.6		
#50	0.6		
#100	0.5		
#200	0.4		

* (no specification provided)

Sample Number: SOIL-02

Material Description		
Grayish Brown poorly graded gravel		
Atterberg Limits		
PL= NP	LL= NV	PI= NP
Coefficients		
D ₉₀ = 9.4474	D ₈₅ = 8.9217	D ₆₀ = 7.2891
D ₅₀ = 6.8029	D ₃₀ = 5.9265	D ₁₅ = 5.2793
D ₁₀ = 5.0466	C _u = 1.44	C _c = 0.95
Classification		
USCS= GP	AASHTO=	A-1-a
Remarks		

Date: 8-15-25

RSA Geolab Union, New Jersey	Client: Alliance Technical Group Project: Q2761 - OVEC - Kyger Creek
	Project No: 889 Figure

Tested By: SP Checked By: KP

MOISTURE DENSITY TEST DATA

8/15/2025

Client: Alliance Technical Group

Project: Q2761 - OVEC - Kyger Creek

Project Number: 889

Sample Number: SOIL-02

Description: Grayish Brown poorly graded gravel

USCS Classification: GP

AASHTO Classification: A-1-a

Liquid Limit: NV

Plasticity Index: NP

Testing Remarks: SG Assumed.
8-15-25

Tested by: SP

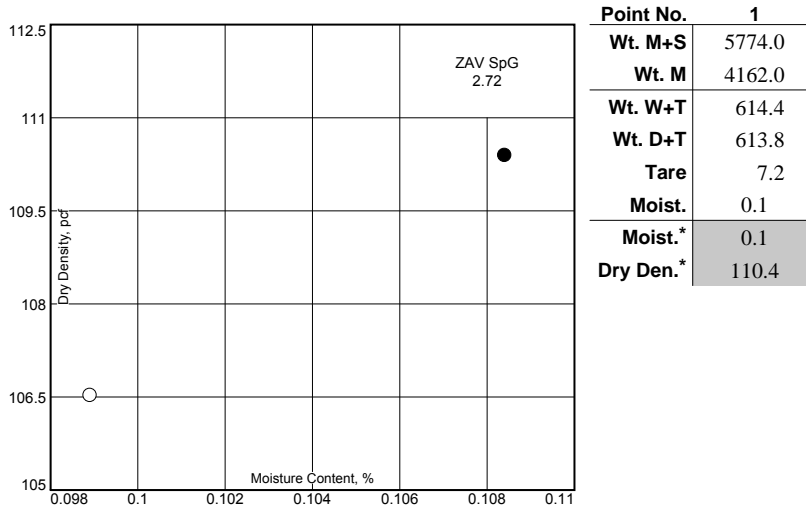
Checked by: KP

Test Data and Results

Test Specification:

Type of Test: ASTM D 1557-12 Method B Modified

Mold Dia: 4.00 **Hammer Wt.:** 10 lb. **Drop:** 18 in. **Layers:** five **Blows per Layer:** 25



Rock Correction Data Correction Method: ASTM D4718-15

Percentage of Oversize Material (%> 3/8 in.): 9.4 **Bulk Specific Gravity of Oversize Material:** 2.72

Oversize Material Moisture Content: .2

***Note:** the rock correction was applied to every test point's density and moisture value.

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Insoluble Residue in Carbonate Aggregates

ASTM D3042

Project: OVEC - Kyger Creek
Q2761
Client: Alliance Technical Group

Proj. No. 889
Date: 8-15-25

Sample: SOIL-02

Test Results:

	<u>Test #1</u>	<u>Test #2</u>	<u>Test #3</u>	<u>Average</u>
Total Percent of Insoluble Residue	91.1	91.1	91.1	91.1
Calcium Carbonate Content %	8.9	8.9	8.9	8.9

Remarks: 1. Approximate sample size: 500 grams.
2. Plus No. 200 size tested for insoluble residue.
3. Sample Description: Grayish Brown poorly graded gravel

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email: rsa@rsageolab.com

Tested By: SP
Entered By: KH
Checked By KP



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PERMEABILITY TEST BY CONSTANT HEAD METHOD

Project: OVEC - Kyger Creek
Q2761
Client: Alliance Technical Group

Proj. #: 889
Date: 8-15-25

SAMPLE: SOIL-02

	Trial 1	Trial 2	Trial 3	Trial 4
Q ml.	5320	5300	5300	5260
L cm.	9.2202	9.2202	9.2202	9.2202
RT C	1.120	1.120	1.120	1.120
t sec.	30	30	30	30
h cms.	1.12	1.12	1.12	1.12
A sq.cms.	410.43	410.43	410.43	410.43
K 20=QLRT/ thA	3.984E+00	3.969E+00	3.969E+00	3.939E+00

Average K 20/cm.sec.

3.965E+00

Dry Density of the test specimen 99.60 P.C.F.

Initial Moisture Content 7.8 %

Final Moisture Content 5.6 %

PERMEABILITY TEST PROCEDURES

Specimen was moderately compacted in a 9" diameter and 6.50" high bucket.

A #10 sieve was used as a screen.

Length of specimen = 3.63 inches.

Remarks: Tested with tap water. Recompactd to 90%MDD (ASTM D1557), as rec'd Moisture.
Grayish Brown poorly graded gravel

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EM\NY-GL\FX\DWALL\CRSGRV\Alliance SOIL-02.XLS

Performed by: OH
Computed by: KH
Checked by: KP

