

Topsoil Geotechnical Reports

Summary Sheet

Date	Report Number	Report Name
4/17/2023	J5211361.0207A	Hydrometer Organic Content
4/27/2023	23-103-0532 / J5211361.0207B	Agricultural Analysis
8/7/2023	J5211361.0213A	Organic Analysis
8/16/2023	J5211361.0214A	Organic Analysis
8/22/2023	23-230-0505 / J5211361.0215	Agricultural Analysis
8/29/2023	J5211361.0216	Organic Analysis
9/6/2023	J5211361.0218	Organic Analysis
9/14/2023	J5211361.0219A	Organic Analysis
9/27/2023	J5211361.0219B	Organic Analysis
10/24/2023	J5211361.0220A	Organic Analysis
3/22/2024	J5211361.0223	Unit Weight of Topsoil

Breesport Sand Sieve Report Summary Sheet

Date	Report Number
4/7/2023	J5211361.0206A
4/7/2023	J5211361.0206B
4/11/2023	J5211361.0206C
4/11/2023	J5211361.0206D
4/11/2023	J5211361.0206E
11/10/2023	J5211361.0220B

#57 Stone Hawbaker Sieve Report Summary Sheet

Date	Report Number
4/25/2022	J5211361.0056B
5/2/2022	J5211361.0066A
5/2/2022	J5211361.0066B
5/2/2022	J5211361.0066C

#3 Stone Hawbaker Sieve Report Summary Sheet

Date	Report Number
6/27/2023	J5211361.0212A

#1/2 Corning Stone Edger Sieve Reports Summary Sheet

Date	Report Number
5/31/2023	J5211361.0210A
5/31/2023	J5211361.0210B
5/31/2023	J5211361.0210C
5/31/2023	J5211361.0210D
5/31/2023	J5211361.0210E
5/31/2023	J5211361.0210F

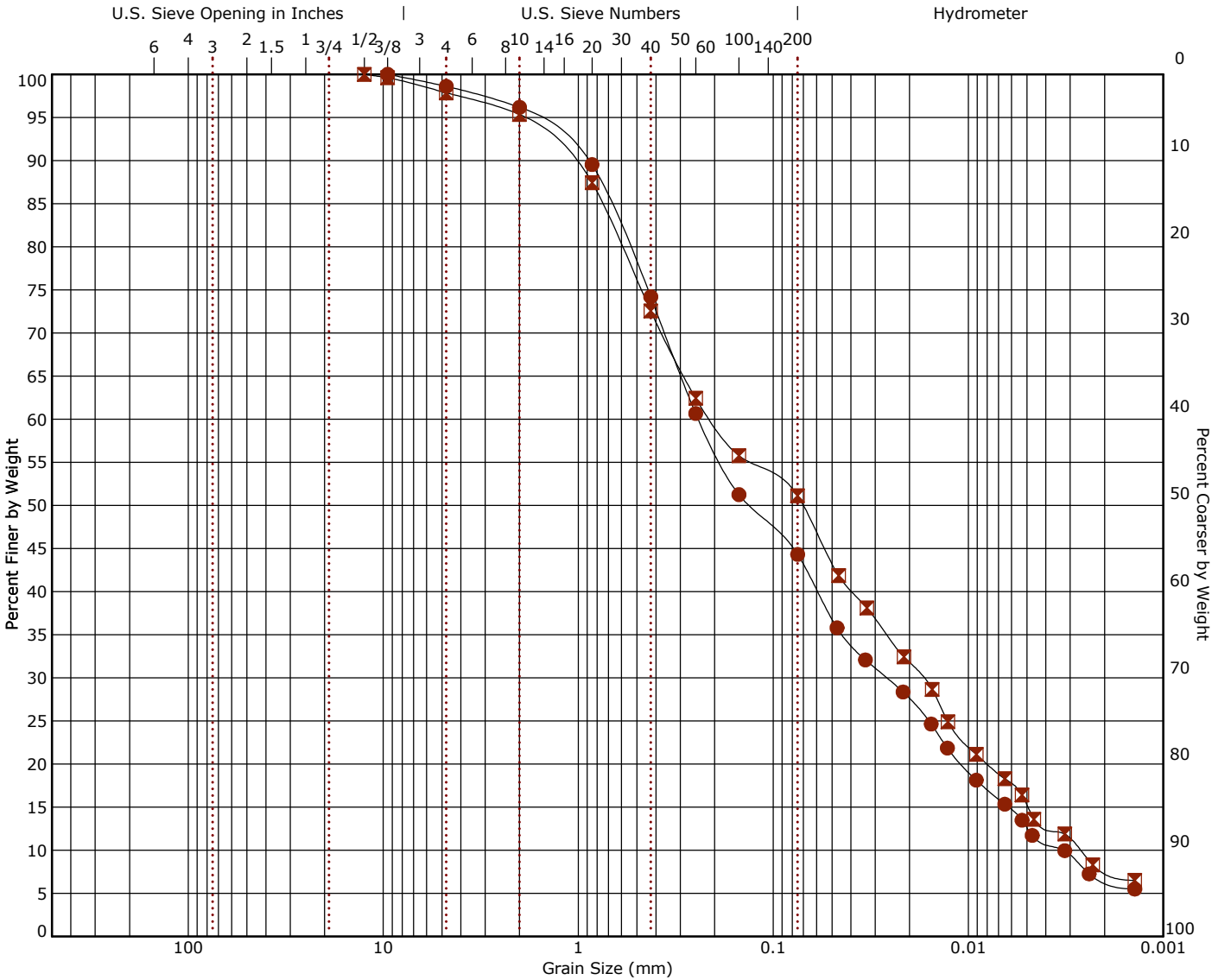
#3/4 Corning Stone Edger Sieve Reports Summary Sheet

Date	Report Number
5/26/2023	J5211361.0209A
5/26/2023	J5211361.0209B
5/26/2023	J5211361.0209C
6/15/2023	J5211361.0211A
6/15/2023	J5211361.0211B
6/15/2023	J5211361.0211C

1.5" Stone Edger Sieve Reports Summary Sheet

Date	Report Number
3/30/3036	001-L1

Grain Size Distribution
ASTM D422 / ASTM C136



Cobbles		Gravel		Sand			Silt or Clay	
		coarse	fine	coarse	medium	fine		
Sample ID		% Cobbles	% Gravel	% Sand	% Fines		% Silt	% Clay
● Topsoil Sample #1		0.0	1.4	54.3			31.7	12.6
☒ Topsoil Sample #2		0.0	2.1	46.7			35.9	15.2

Description		●	☒	Grain Size	
● SILTY SAND		Sieve	% Finer	Sieve	% Finer
☒ SANDY SILT		3/8"	100.0	1/2"	100.0
		#4	98.61	3/8"	99.6
		#10	96.18	#4	97.86
		#20	89.54	#10	95.35
		#40	74.2	#20	87.45
		#60	60.66	#40	72.55
		#100	51.25	#60	62.44
		#200	44.31	#100	55.77
				#200	51.13

Organic Content		Coefficients	
● Topsoil Sample #1	3%	C _c	0.89
☒ Topsoil Sample #2	3.3%	C _u	74.54
			77.08

Distribution Page

Report Number: J5211361.0207A

Service Date: 04/05/23

Report Date: 04/17/23

Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Distribution List

- (1) Geosyntec Consultants, Miranda Stelmach
- (1) Geosyntec Consultants, Aron Krasnopoler
- (1) Geosyntec Consultants, Brian Harris
- (1) Geosyntec Consultants, Byran York
- (1) Geosyntec Consultants, Colin Lamas
- (1) Geosyntec Consultants, Kaitlin Thell Ouverson
- (1) Geosyntec Consultants, Paul Botek
- (1) Geosyntec Consultants, Paul Brookner
- (1) Geosyntec Consultants, Tom Ramsey
- (1) Geosyntec Consultants, William Steier



SOIL ANALYSIS

Client : Terracon Rochester 15 Marway Circle Suite 2B Rochester NY 14624	Grower : Kyle Lemcke Terracon Consultants	Report No: 23-103-0532 Cust No: 19220 Date Printed: 04/27/2023 Date Received : 04/13/2023 PO: Page : 1 of 2
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Lab No: 07547

Field:

Sample ID: Topsoil 1

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.4						15.4 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	45 ppm						%sat meq
Potassium (K)	M3	35 ppm						K 0.6 0.1
Calcium (Ca)	M3	2828 ppm						Ca 91.8 14.1
Magnesium (Mg)	M3	142 ppm						Mg 7.7 1.2
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.07
Manganese (Mn)								Ca/Mg Ratio: 11.92
Zinc (Zn)								
Sodium (Na)								
Soluble Salts	SS1:2	0.09 dS/m						
Organic Matter	LOI	1.3%						
Estimated N Release		70 lbs/acre						
Nitrate Nitrogen								

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

Client :
Terracon Rochester
15 Marway Circle
Suite 2B
Rochester NY 14624

Grower :
Kyle Lemcke
Terracon Consultants

Report No: 23-103-0532
Cust No: 19220
Date Printed: 04/27/2023
Date Received : 04/13/2023
PO:
Page : 2 of 2

Lab No: 07548

Field:

Sample ID: Topsoil 2

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.5						14.4 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	38 ppm						%sat meq
Potassium (K)	M3	36 ppm						K 0.6 0.1
Calcium (Ca)	M3	2598 ppm						Ca 90.2 13.0
Magnesium (Mg)	M3	153 ppm						Mg 8.9 1.3
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.07
Manganese (Mn)								Ca/Mg Ratio: 10.13
Zinc (Zn)								
Sodium (Na)								
Soluble Salts	SS1:2	0.09 dS/m						
Organic Matter	LOI	1.6%						
Estimated N Release		76 lbs/acre						
Nitrate Nitrogen								

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe
Crop :												Rec Units:

Comments :

Distribution Page

Report Number: J5211361.0207B

Service Date: 04/05/23

Report Date: 04/27/23

Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Distribution List

- (1) Geosyntec Consultants, Miranda Stelmach
- (1) Geosyntec Consultants, Aron Krasnopoler
- (1) Geosyntec Consultants, Brian Harris
- (1) Geosyntec Consultants, Byran York
- (1) Geosyntec Consultants, Colin Lamas
- (1) Geosyntec Consultants, Kaitlin Thell Ouverson
- (1) Geosyntec Consultants, Paul Botek
- (1) Geosyntec Consultants, Paul Brookner
- (1) Geosyntec Consultants, Tom Ramsey
- (1) Geosyntec Consultants, William Steier

TOPSOIL ANALYSIS REPORT

Report Number: J5211361.0213A
Service Date: 08/02/23
Report Date: 08/07/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 8/2/23
Sample Source: Gridley 1

Test Summary and Results:

Procedure: ASTM D2974-07a

Test Completion Date: 8/4/23

MOISTURE CALCULATIONS

Test Method: **A**
Tare Weight (g): 218.1
Sample Weight (g): 728.11
Constant Weight (g): 661.95

Moisture Content %: 14.9
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: **C**
Tare Weight (g): 75.97
Constant Weight (g): 159.56
Mass of Ash (g): 157.50

Ash Content %: 97.5
Organic Content %: 2.5

Services:

Terracon Rep: Kyle Lemcke

Contractor:

Reported To:

Report Distribution

(1) Geosyntec Consultants, Miranda Stelmach

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Aron

(1) Geosyntec Consultants, Kaitlin Thell

(1) Geosyntec Consultants, Tom Ramsey

Reviewed By:

Kyle Lemcke
Staff Engineer

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

TOPSOIL ANALYSIS REPORT

Report Number: J5211361.0213A
Service Date: 08/02/23
Report Date: 08/07/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 8/2/23
Sample Source: Gridley 2

Test Summary and Results:

Procedure: ASTM D2974-07a

Test Completion Date: 8/4/23

MOISTURE CALCULATIONS

Test Method: A
Tare Weight (g): 205
Sample Weight (g): 727.59
Constant Weight (g): 654.94

Moisture Content %: 16.1
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: C
Tare Weight (g): 73.92
Constant Weight (g): 144.38
Mass of Ash (g): 142.49

Ash Content %: 97.3
Organic Content %: 2.7

Services:

Terracon Rep: Kyle Lemcke

Contractor:

Reported To:

Report Distribution

(1) Geosyntec Consultants, Miranda Stelmach

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Aron

(1) Geosyntec Consultants, Kaitlin Thell

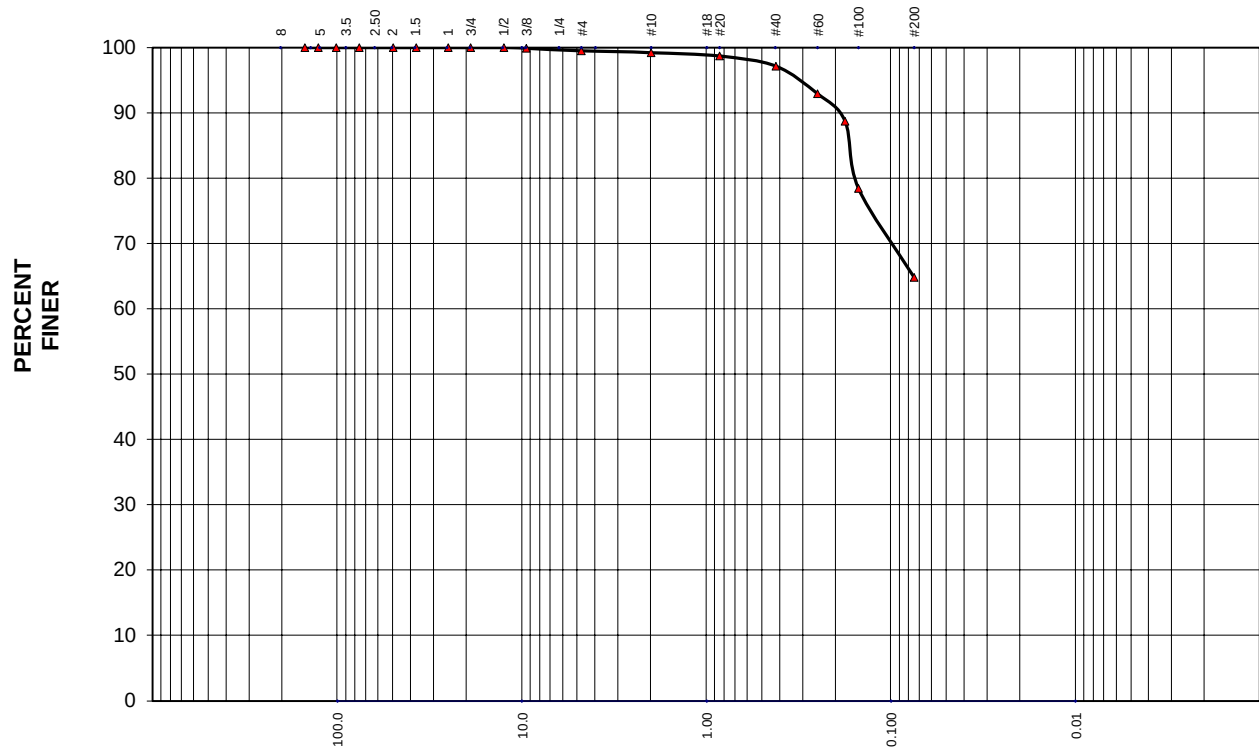
(1) Geosyntec Consultants, Tom Ramsey

Reviewed By:

Kyle Lemcke
Staff Engineer

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GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	0.5	0.8	1.5	97.6	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		34.7	64.8	

Classification: Sandy Silt (ML)

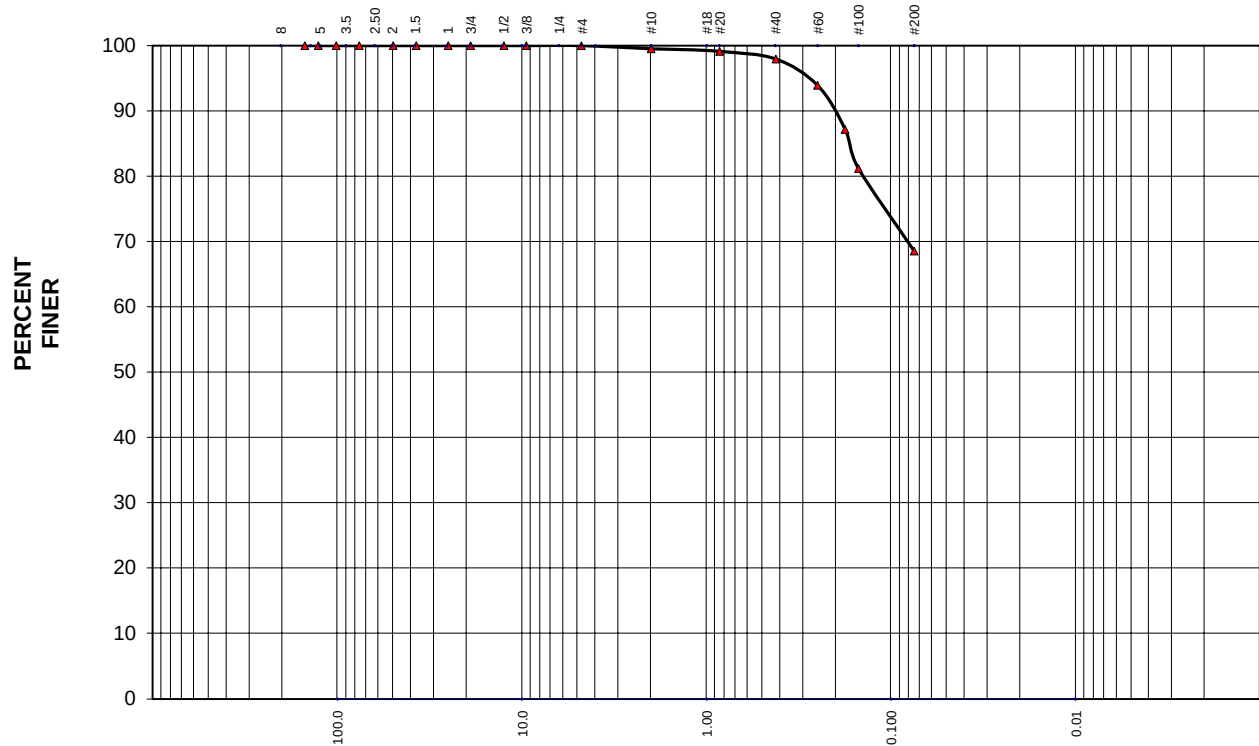
Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Specification Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	0.00	100			
19.0	3/4"	0.00	100			
12.5	1/2"	0.00	100			
9.5	3/8"	5.00	100			
4.75	#4	1.86	99.5			
2.00	#10	3.30	99			
0.850	#20	5.97	99			
0.420	#40	13.77	97			
0.250	#60	34.82	93			
0.177	#80	55.95	89			
0.150	#100	107.08	78			
0.075	#200	175.46	65			

Total Dry Wt. 4550 g
Split Wt. 499.38 g

Project: Elmira HS Football Field	Project No.: J5211361	Date: 8/7/2023
Location: Elmira, New York	Specification: ASTM D422	
Source: Gridley Sample #1		

15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/	Remarks: Tested By: K. Lemcke Date: 8/4/2023
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GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	0.0	1.5	1.4	97.1	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		31.5	68.5	

Classification: Sandy Silt (ML)

Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	0.00	100			
19.0	3/4"	0.00	100			
12.5	1/2"	0.00	100			
9.5	3/8"	0.00	100			
4.75	#4	0.00	100			
2.00	#10	2.41	99.5			
0.850	#20	4.65	99			
0.420	#40	10.65	98			
0.250	#60	31.04	94			
0.177	#80	65.43	87			
0.150	#100	95.77	81			
0.075	#200	160.44	69			

Total Dry Wt. 4385 g
Split Wt. 509.77 g

Project: Elmira HS Football Field	Project No.: J5211361	Date: 8/7/2023
Location: Elmira, New York	Specification: ASTM D422	
Source: Gridley Sample #2		

15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/	Remarks: Tested By: K. Lemcke Date: 8/4/2023
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TOPSOIL ANALYSIS REPORT

Report Number: J5211361.0214A
Service Date: 08/11/23
Report Date: 08/16/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 8/10/23
Sample Source: Edger - Sample #1

Test Summary and Results:

Procedure: ASTM D2974-07a

Test Completion Date: 8/15/23

MOISTURE CALCULATIONS

Test Method: **A**
Tare Weight (g): 73.93
Sample Weight (g): 173.25
Constant Weight (g): 156.35

Moisture Content %: 20.5
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: **C**
Tare Weight (g): 73.93
Constant Weight (g): 156.35
Mass of Ash (g): 151.63

Ash Content %: 94.3
Organic Content %: 5.7

Notes / Observations:

Services:

Terracon Rep: Kyle Lemcke

Contractor:

Report Distribution

(1) Geosyntec Consultants, Miranda Stelmach

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Aron

(1) Geosyntec Consultants, Kaitlin Thell

(1) Geosyntec Consultants, Tom Ramsey

Reported To:

Reviewed By:

Kyle Lemcke
Staff Engineer

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TOPSOIL ANALYSIS REPORT

Report Number: J5211361.0214A
Service Date: 08/11/23
Report Date: 08/16/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 8/10/23
Sample Source: Edger - Sample #2

Test Summary and Results:

Procedure: ASTM D2974-07a

Test Completion Date: 8/15/23

MOISTURE CALCULATIONS

Test Method: A
Tare Weight (g): 67.97
Sample Weight (g): 187.88
Constant Weight (g): 170.53

Moisture Content %: 16.9
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: C
Tare Weight (g): 67.67
Constant Weight (g): 170.53
Mass of Ash (g): 164.55

Ash Content %: 94.2
Organic Content %: 5.8

Notes / Observations:

Services:

Terracon Rep: Kyle Lemcke

Contractor:

Report Distribution

(1) Geosyntec Consultants, Miranda Stelmach

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Aron

(1) Geosyntec Consultants, Kaitlin Thell

(1) Geosyntec Consultants, Tom Ramsey

Reported To:

Reviewed By:

Kyle Lemcke
Staff Engineer

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TOPSOIL ANALYSIS REPORT

Report Number: J5211361.0214A
Service Date: 08/11/23
Report Date: 08/16/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 8/10/23
Sample Source: Edger - Sample #3

Test Summary and Results:

Procedure: ASTM D2974-07a

Test Completion Date: 8/15/23

MOISTURE CALCULATIONS

Test Method: **A**
Tare Weight (g): 75.98
Sample Weight (g): 198.9
Constant Weight (g): 180

Moisture Content %: 18.2
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: **C**
Tare Weight (g): 75.98
Constant Weight (g): 180.00
Mass of Ash (g): 174.82

Ash Content %: 95.0
Organic Content %: 5.0

Notes / Observations:

Services:

Terracon Rep: Kyle Lemcke

Contractor:

Report Distribution

(1) Geosyntec Consultants, Miranda Stelmach

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Aron

(1) Geosyntec Consultants, Kaitlin Thell

(1) Geosyntec Consultants, Tom Ramsey

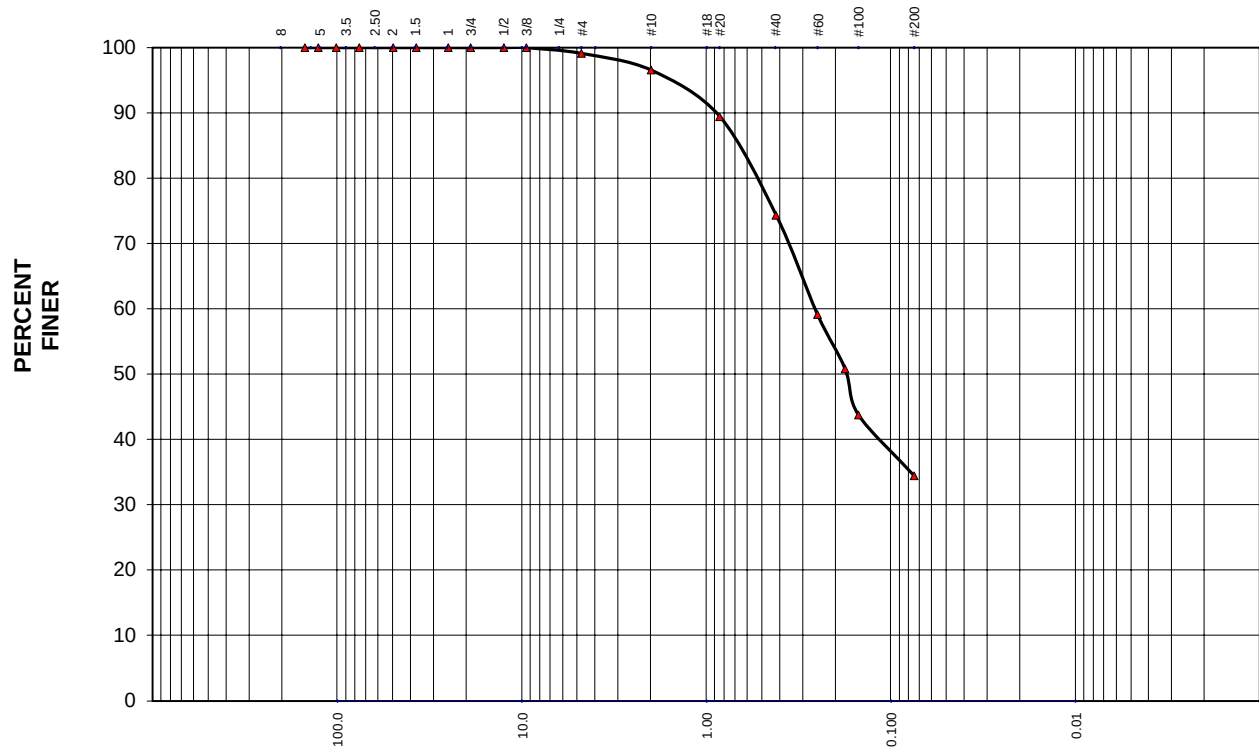
Reported To:

Reviewed By:

Kyle Lemcke
Staff Engineer

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	0.9	4.0	10.9	85.1	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		64.7	34.4	

Classification: Silty Sand (SM)

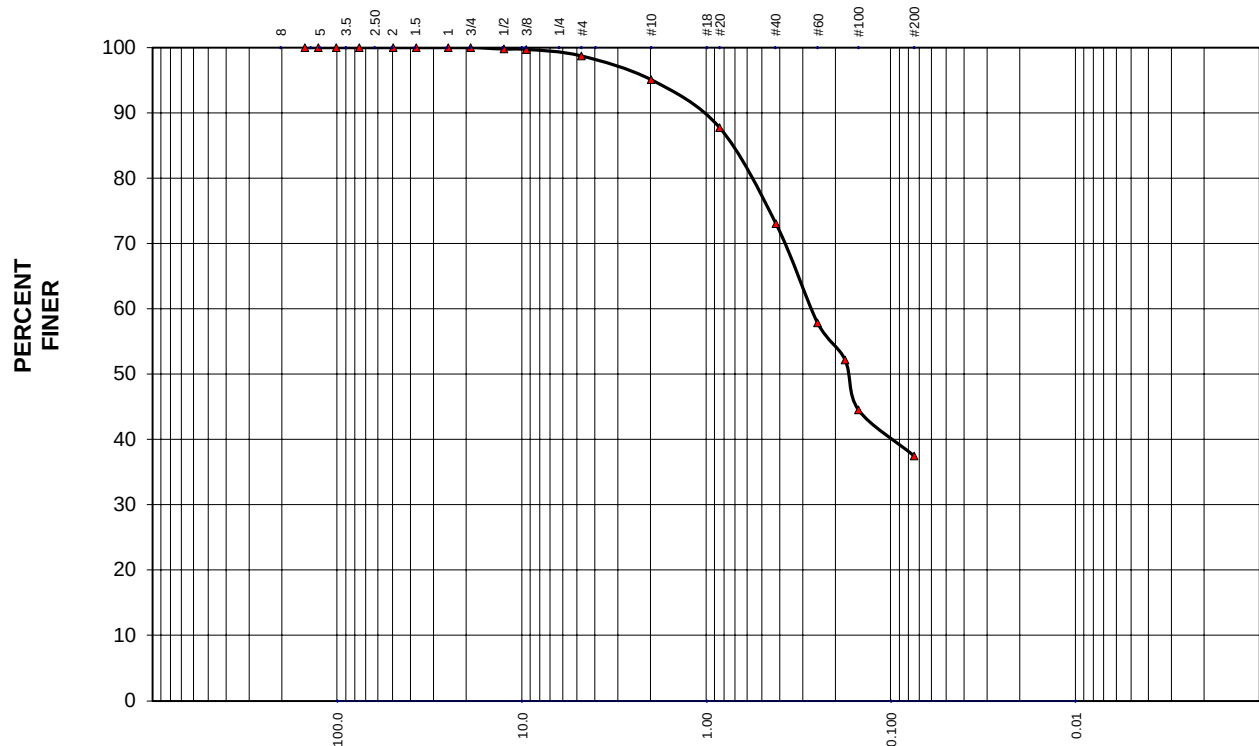
Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	0.00	100			
19.0	3/4"	0.00	100			
12.5	1/2"	0.00	100			
9.5	3/8"	1.13	99.98			
4.75	#4	4.30	99			
2.00	#10	17.35	97			
0.850	#20	52.76	89			
0.420	#40	128.42	74			
0.250	#60	204.89	59			
0.177	#80	246.76	51			
0.150	#100	281.74	44			
0.075	#200	328.76	34			

Total Dry Wt. 5785 g
Split Wt. 501.42 g

Project: Elmira HS Football Field	Project No.: J5211361	Date: 8/16/2023
Location: Elmira, New York	Specification: ASTM D422	
Source: Edger - Sample #1		

15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/	Remarks: Tested By: K. Lemcke Date: 8/15/2023
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GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	1.3	5.9	11.9	82.1	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		61.2	37.5	

Classification: Silty Sand (SM)

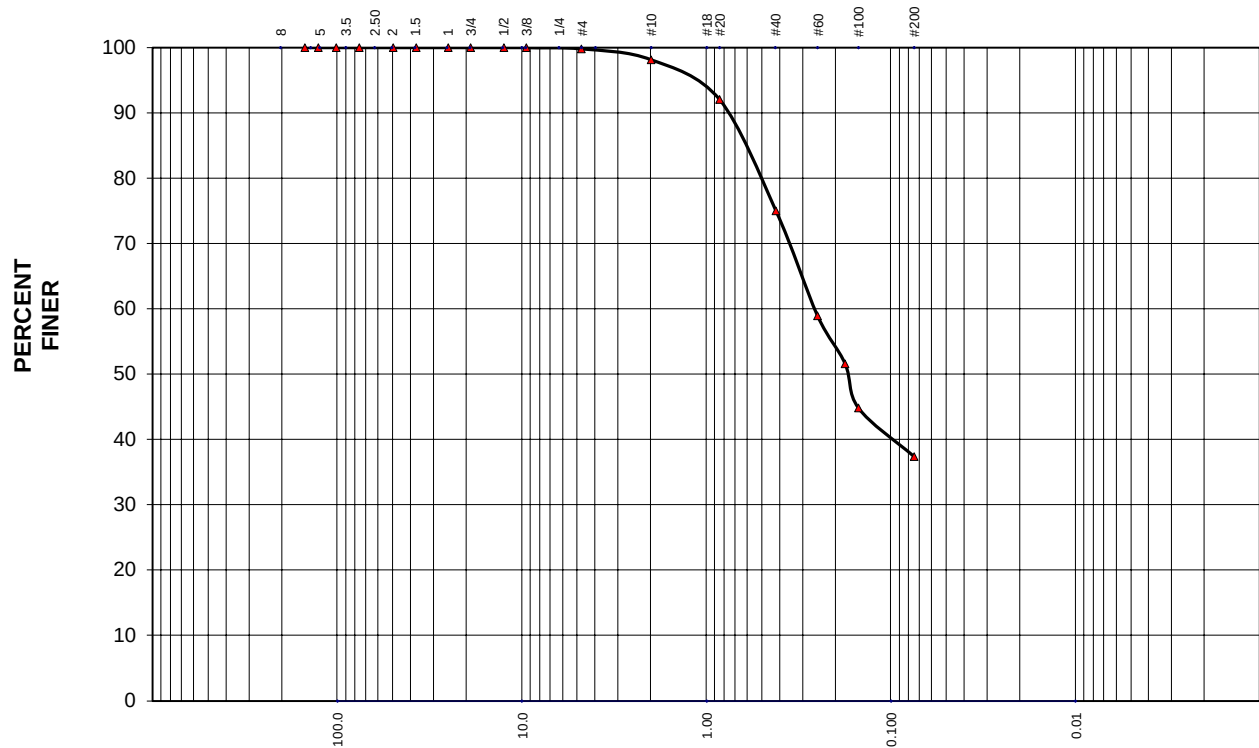
Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	0.00	100			
19.0	3/4"	0.00	100			
12.5	1/2"	12.06	99.8			
9.5	3/8"	13.75	99.7			
4.75	#4	5.23	99			
2.00	#10	23.37	95			
0.850	#20	60.02	88			
0.420	#40	134.10	73			
0.250	#60	209.84	58			
0.177	#80	238.56	52			
0.150	#100	276.93	45			
0.075	#200	312.08	38			

Total Dry Wt. 5320 g
Split Wt. 500.35 g

Project: Elmira HS Football Field	Project No.: J5211361	Date: 8/16/2023
Location: Elmira, New York	Specification: ASTM D422	
Source: Edger - Sample #2		

15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/	Remarks: Tested By: K. Lemcke Date: 8/15/2023
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GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	0.2	2.5	9.8	87.6	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		62.4	37.4	

Classification: Silty Sand (SM)

Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	0.00	100			
19.0	3/4"	0.00	100			
12.5	1/2"	0.00	100			
9.5	3/8"	1.72	99.97			
4.75	#4	1.05	99.8			
2.00	#10	9.02	98			
0.850	#20	39.75	92			
0.420	#40	125.09	75			
0.250	#60	205.41	59			
0.177	#80	242.12	52			
0.150	#100	276.42	45			
0.075	#200	313.66	37			

Total Dry Wt. 5770 g
Split Wt. 500.82 g

Project: Elmira HS Football Field	Project No.: J5211361	Date: 8/16/2023
Location: Elmira, New York	Specification: ASTM D422	
Source: Edger - Sample #3		

15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/	Remarks: Tested By: K. Lemcke Date: 8/15/2023
--	--

SOIL ANALYSIS

Client : Terracon Rochester 15 Marway Circle Suite 2B Rochester NY 14624	Grower : Terracon Consultants Project J5211361	Report No: 23-230-0505 Cust No: 19220 Date Printed: 08/22/2023 Date Received : 08/18/2023 PO: Page : 1 of 5
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Lab No: 04009

Field:

Sample ID: Edger 1

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	6.8						15.8 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	47 ppm						%sat meq
Potassium (K)	M3	61 ppm						K 1.0 0.2
Calcium (Ca)	M3	2780 ppm						Ca 88.0 13.9
Magnesium (Mg)	M3	154 ppm						Mg 8.1 1.3
Sulfur (S)								H 3.2 0.4
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.12
Manganese (Mn)								Ca/Mg Ratio: 10.86
Zinc (Zn)								
Sodium (Na)								
Soluble Salts	SS1:2	185.6 ppm						
Organic Matter	LOI	2.1%						
Estimated N Release		86 lbs/acre						
Nitrate Nitrogen								

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

Client : Terracon Rochester 15 Marway Circle Suite 2B Rochester NY 14624	Grower : Terracon Consultants Project J5211361	Report No: 23-230-0505 Cust No: 19220 Date Printed: 08/22/2023 Date Received : 08/18/2023 PO: Page : 2 of 5
--	--	--

Lab No: 04010

Field:

Sample ID: Edger 2

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.2						16.7 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	86 ppm						%sat meq
Potassium (K)	M3	126 ppm						K 1.9 0.3
Calcium (Ca)	M3	2991 ppm						Ca 89.6 15.0
Magnesium (Mg)	M3	176 ppm						Mg 8.8 1.5
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.22
Manganese (Mn)								Ca/Mg Ratio: 10.18
Zinc (Zn)								
Sodium (Na)								
Soluble Salts	SS1:2	345.6 ppm						
Organic Matter	LOI	2.9%						
Estimated N Release		102 lbs/acre						
Nitrate Nitrogen								

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :

SOIL ANALYSIS

Client : Terracon Rochester 15 Marway Circle Suite 2B Rochester NY 14624	Grower : Terracon Consultants Project J5211361	Report No: 23-230-0505 Cust No: 19220 Date Printed: 08/22/2023 Date Received : 08/18/2023 PO: Page : 3 of 5
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Lab No: 04012

Field:

Sample ID: Edger 3

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.3						14.9 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	75 ppm						%sat meq
Potassium (K)	M3	63 ppm						K 1.1 0.2
Calcium (Ca)	M3	2717 ppm						Ca 91.2 13.6
Magnesium (Mg)	M3	140 ppm						Mg 7.8 1.2
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.13
Manganese (Mn)								Ca/Mg Ratio: 11.69
Zinc (Zn)								
Sodium (Na)								
Soluble Salts	SS1:2	121.6 ppm						
Organic Matter	LOI	1.6%						
Estimated N Release		76 lbs/acre						
Nitrate Nitrogen								

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

Client : Terracon Rochester 15 Marway Circle Suite 2B Rochester NY 14624	Grower : Terracon Consultants Project J5211361	Report No: 23-230-0505 Cust No: 19220 Date Printed: 08/22/2023 Date Received : 08/18/2023 PO: Page : 4 of 5
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Lab No: 04013

Field:

Sample ID: Gridley 1

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	6.2						6.7 meq/100g
Buffer pH	BPH	6.28						%Saturation
Phosphorus (P)	M3	16 ppm						%sat meq
Potassium (K)	M3	27 ppm						K 1.0 0.1
Calcium (Ca)	M3	817 ppm						Ca 61.0 4.1
Magnesium (Mg)	M3	146 ppm						Mg 18.2 1.2
Sulfur (S)								H 19.4 1.2
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.05
Manganese (Mn)								Ca/Mg Ratio: 3.35
Zinc (Zn)								
Sodium (Na)								
Soluble Salts	SS1:2	64 ppm						
Organic Matter	LOI	1.0%						
Estimated N Release		64 lbs/acre						
Nitrate Nitrogen								

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :

SOIL ANALYSIS

Client :
Terracon Rochester
15 Marway Circle
Suite 2B
Rochester NY 14624

Grower :
Terracon Consultants
Project J5211361

Report No: 23-230-0505
Cust No: 19220
Date Printed: 08/22/2023
Date Received : 08/18/2023
PO:
Page : 5 of 5

Lab No: 04014

Field:

Sample ID: Gridley 2

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	6.2						7.0 meq/100g
Buffer pH	BPH	6.28						%Saturation
Phosphorus (P)	M3	17 ppm						%sat meq
Potassium (K)	M3	32 ppm						K 1.2 0.1
Calcium (Ca)	M3	873 ppm						Ca 62.4 4.4
Magnesium (Mg)	M3	145 ppm						Mg 17.3 1.2
Sulfur (S)								H 18.6 1.2
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.06
Manganese (Mn)								Ca/Mg Ratio: 3.61
Zinc (Zn)								
Sodium (Na)								
Soluble Salts	SS1:2	64 ppm						
Organic Matter	LOI	0.8%						
Estimated N Release		60 lbs/acre						
Nitrate Nitrogen								

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

TOPSOIL ANALYSIS REPORT

Report Number: J5211361.0216
Service Date: 08/29/23
Report Date: 08/29/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 8/10/23
Sample Source: Edger - Sample #1

Test Summary and Results:

Procedure: ASTM D2974-07a

Test Completion Date: 8/28/23

MOISTURE CALCULATIONS

Test Method: A
Tare Weight (g): 73.93
Sample Weight (g): 173.25
Constant Weight (g): 156.35

Moisture Content %: 20.5
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: C
Tare Weight (g): 62.44
Constant Weight (g): 119.56
Mass of Ash (g): 117.05

Ash Content %: 95.6
Organic Content %: 4.4

Notes / Observations:

Test Run #2

Services:

Terracon Rep: Kyle Lemcke

Contractor:

Report Distribution

(1) Geosyntec Consultants, Miranda Stelmach

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Aron

(1) Geosyntec Consultants, Kaitlin Thell

(1) Geosyntec Consultants, Tom Ramsey

Reviewed By:

Kyle Lemcke
Staff Engineer

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

TOPSOIL ANALYSIS REPORT

Report Number: J5211361.0216
Service Date: 08/29/23
Report Date: 08/29/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 8/10/23
Sample Source: Edger - Sample #2

Test Summary and Results:

Procedure: ASTM D2974-07a

Test Completion Date: 8/28/23

MOISTURE CALCULATIONS

Test Method: **A**
Tare Weight (g): 67.97
Sample Weight (g): 187.88
Constant Weight (g): 170.53

Moisture Content %: 16.9
(As a percentage of oven dried mass)

Notes / Observations:

Test Run #2

ORGANIC CONTENT CALCULATIONS

Test Method: **C**
Tare Weight (g): 75.98
Constant Weight (g): 104.64
Mass of Ash (g): 103.22

Ash Content %: 95.0
Organic Content %: 5.0

Services:

Terracon Rep: Kyle Lemcke

Contractor:

Report Distribution

(1) Geosyntec Consultants, Miranda Stelmach

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Aron

(1) Geosyntec Consultants, Kaitlin Thell

(1) Geosyntec Consultants, Tom Ramsey

Reviewed By:

Kyle Lemcke
Staff Engineer

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TOPSOIL ANALYSIS REPORT

Report Number: J5211361.0216
Service Date: 08/29/23
Report Date: 08/29/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 8/10/23
Sample Source: Edger - Sample #3

Test Summary and Results:

Procedure: ASTM D2974-07a

Test Completion Date: 8/28/23

MOISTURE CALCULATIONS

Test Method: A
Tare Weight (g): 75.98
Sample Weight (g): 198.9
Constant Weight (g): 180

Moisture Content %: 18.2
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: C
Tare Weight (g): 68.35
Constant Weight (g): 115.86
Mass of Ash (g): 113.74

Ash Content %: 95.5
Organic Content %: 4.5

Notes / Observations:
Test Sample #2

Services:

Terracon Rep: Kyle Lemcke

Contractor:

Report Distribution

(1) Geosyntec Consultants, Miranda Stelmach

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Aron

(1) Geosyntec Consultants, Kaitlin Thell

(1) Geosyntec Consultants, Tom Ramsey

Reviewed By:

Kyle Lemcke
Staff Engineer

Lemcke, Kyle P
Aug 29 2023 8:33 AM

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

TOPSOIL ANALYSIS REPORT

Report Number: J5211361.0216
Service Date: 08/29/23
Report Date: 08/29/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 8/2/23
Sample Source: Gridley 1

Test Summary and Results:

Procedure: ASTM D2974-07a

Test Completion Date: 8/28/23

MOISTURE CALCULATIONS

Test Method: **A**
Tare Weight (g): 218.1
Sample Weight (g): 728.11
Constant Weight (g): 661.95

Moisture Content %: 14.9
(As a percentage of oven dried mass)

Notes / Observations:

Test Run #2

ORGANIC CONTENT CALCULATIONS

Test Method: **C**
Tare Weight (g): 71.38
Constant Weight (g): 125.11
Mass of Ash (g): 123.98

Ash Content %: 97.9
Organic Content %: 2.1

Services:

Terracon Rep: Kyle Lemcke

Contractor:

Report Distribution

(1) Geosyntec Consultants, Miranda Stelmach

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Aron

(1) Geosyntec Consultants, Kaitlin Thell

(1) Geosyntec Consultants, Tom Ramsey

Reviewed By:

Kyle Lemcke
Staff Engineer

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TOPSOIL ANALYSIS REPORT

Report Number: J5211361.0216
Service Date: 08/29/23
Report Date: 08/29/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 8/2/23
Sample Source: Gridley 2

Test Summary and Results:

Procedure: ASTM D2974-07a

Test Completion Date: 8/28/23

MOISTURE CALCULATIONS

Test Method: A
Tare Weight (g): 205
Sample Weight (g): 727.59
Constant Weight (g): 654.94

Moisture Content %: 16.1
(As a percentage of oven dried mass)

Notes / Observations:

Test Run #2

ORGANIC CONTENT CALCULATIONS

Test Method: C
Tare Weight (g): 71.12
Constant Weight (g): 158.45
Mass of Ash (g): 156.83

Ash Content %: 98.1
Organic Content %: 1.9

Services:

Terracon Rep: Kyle Lemcke

Contractor:

Report Distribution

(1) Geosyntec Consultants, Miranda Stelmach

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Aron

(1) Geosyntec Consultants, Kaitlin Thell

(1) Geosyntec Consultants, Tom Ramsey

Reviewed By:

Kyle Lemcke
Staff Engineer

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TOPSOIL ANALYSIS REPORT

Report Number: J5211361.0218
Service Date: 09/06/23
Report Date: 09/06/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 8/10/23
Sample Source: Edger Sample #1

Test Summary and Results:

Procedure: ASTM D2974-07a

Test Completion Date: 9/5/23

MOISTURE CALCULATIONS

Test Method: A
Tare Weight (g): 73.93
Sample Weight (g): 173.25
Constant Weight (g): 156.35

Moisture Content %: 20.5
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: C
Tare Weight (g): 73.93
Constant Weight (g): 121.92
Mass of Ash (g): 119.91

Ash Content %: 95.8
Organic Content %: 4.2

Services:

Terracon Rep: Kyle Lemcke

Reported To:

Contractor:

Report Distribution

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Byran York
(1) Geosyntec Consultants, Paul Botek
(1) Geosyntec Consultants, Aron
(1) Geosyntec Consultants, Kaitlin Thell
(1) Geosyntec Consultants, Tom Ramsey

Reviewed By:

Kyle Lemcke
Staff Engineer

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

TOPSOIL ANALYSIS REPORT

Report Number: J5211361.0218
Service Date: 09/06/23
Report Date: 09/06/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 8/10/23
Sample Source: Edger Sample #1

Test Summary and Results:

Procedure: ASTM F1647

Test Completion Date: 9/5/23

MOISTURE CALCULATIONS

Test Method: A
Tare Weight (g): 73.93
Sample Weight (g): 173.25
Constant Weight (g): 156.35

Moisture Content %: 20.5
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: C
Tare Weight (g): 67.67
Constant Weight (g): 74.03
Mass of Ash (g): 73.80

Ash Content %: 96.4
Organic Content %: 3.6

Services:

Terracon Rep: Kyle Lemcke

Reported To:

Contractor:

Report Distribution

- | | |
|---|--|
| (1) Geosyntec Consultants, Miranda Stelmach | (1) Geosyntec Consultants, Aron |
| (1) Geosyntec Consultants, Byran York | (1) Geosyntec Consultants, Kaitlin Thell |
| (1) Geosyntec Consultants, Paul Botek | (1) Geosyntec Consultants, Tom Ramsey |

Reviewed By:

Kyle Lemcke
Staff Engineer

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TOPSOIL ANALYSIS REPORT

Report Number: J5211361.0218
Service Date: 09/06/23
Report Date: 09/06/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 8/10/23
Sample Source: Edger Sample #2

Test Summary and Results:

Procedure: ASTM D2974-07a

Test Completion Date: 9/5/23

MOISTURE CALCULATIONS

Test Method: A
Tare Weight (g): 67.97
Sample Weight (g): 187.88
Constant Weight (g): 170.53

Moisture Content %: 16.9
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: C
Tare Weight (g): 75.97
Constant Weight (g): 128.26
Mass of Ash (g): 125.99

Ash Content %: 95.7
Organic Content %: 4.5

Services:

Terracon Rep: Kyle Lemcke

Reported To:

Contractor:

Report Distribution

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Byran York
(1) Geosyntec Consultants, Paul Botek
(1) Geosyntec Consultants, Aron
(1) Geosyntec Consultants, Kaitlin Thell
(1) Geosyntec Consultants, Tom Ramsey

Reviewed By:

Kyle Lemcke
Staff Engineer

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TOPSOIL ANALYSIS REPORT

Report Number: J5211361.0218
Service Date: 09/06/23
Report Date: 09/06/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 8/10/23
Sample Source: Edger Sample #2

Test Summary and Results:

Procedure: ASTM F1647

Test Completion Date: 9/5/23

MOISTURE CALCULATIONS

Test Method: A
Tare Weight (g): 67.97
Sample Weight (g): 187.88
Constant Weight (g): 170.53

Moisture Content %: 16.9
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: C
Tare Weight (g): 71.39
Constant Weight (g): 81.09
Mass of Ash (g): 80.73

Ash Content %: 96.3
Organic Content %: 4.0

Services:

Terracon Rep: Kyle Lemcke

Reported To:

Contractor:

Report Distribution

- | | |
|---|--|
| (1) Geosyntec Consultants, Miranda Stelmach | (1) Geosyntec Consultants, Aron |
| (1) Geosyntec Consultants, Byran York | (1) Geosyntec Consultants, Kaitlin Thell |
| (1) Geosyntec Consultants, Paul Botek | (1) Geosyntec Consultants, Tom Ramsey |

Reviewed By:

Kyle Lemcke
Staff Engineer

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TOPSOIL ANALYSIS REPORT

Report Number: J5211361.0218
Service Date: 09/06/23
Report Date: 09/06/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 8/10/23
Sample Source: Edger Sample #3

Test Summary and Results:

Procedure: ASTM D2974-07a

Test Completion Date: 9/5/23

MOISTURE CALCULATIONS

Test Method: **A**
Tare Weight (g): 75.98
Sample Weight (g): 198.9
Constant Weight (g): 180

Moisture Content %: 18.2
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: **C**
Tare Weight (g): 68.35
Constant Weight (g): 123.65
Mass of Ash (g): 121.47

Ash Content %: 96.1
Organic Content %: 3.9

Services:

Terracon Rep: Kyle Lemcke

Reported To:

Contractor:

Report Distribution

- | | |
|---|--|
| (1) Geosyntec Consultants, Miranda Stelmach | (1) Geosyntec Consultants, Aron |
| (1) Geosyntec Consultants, Byran York | (1) Geosyntec Consultants, Kaitlin Thell |
| (1) Geosyntec Consultants, Paul Botek | (1) Geosyntec Consultants, Tom Ramsey |

Reviewed By:

Kyle Lemcke
Staff Engineer

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TOPSOIL ANALYSIS REPORT

Report Number: J5211361.0218
Service Date: 09/06/23
Report Date: 09/06/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 8/10/23
Sample Source: Edger Sample #3

Test Summary and Results:

Procedure: ASTM F1647

Test Completion Date: 9/5/23

MOISTURE CALCULATIONS

Test Method: A
Tare Weight (g): 75.98
Sample Weight (g): 198.9
Constant Weight (g): 180

Moisture Content %: 18.2
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: C
Tare Weight (g): 58.94
Constant Weight (g): 68.75
Mass of Ash (g): 68.40

Ash Content %: 96.4
Organic Content %: 3.6

Services:

Terracon Rep: Kyle Lemcke

Reported To:

Contractor:

Report Distribution

- | | |
|---|--|
| (1) Geosyntec Consultants, Miranda Stelmach | (1) Geosyntec Consultants, Aron |
| (1) Geosyntec Consultants, Byran York | (1) Geosyntec Consultants, Kaitlin Thell |
| (1) Geosyntec Consultants, Paul Botek | (1) Geosyntec Consultants, Tom Ramsey |

Reviewed By:

Kyle Lemcke
Staff Engineer

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ORGANIC CONTENT REPORT

Report Number: J5211361.0219A
Service Date: 09/11/23
Report Date: 09/14/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 9/11/23
Sample Source: Edger Bree TS4

Test Summary and Results:

Procedure: ASTM D2974-07a

Test Completion Date: 9/14/23

MOISTURE CALCULATIONS

Test Method: **A**
Tare Weight (g): 153.41
Sample Weight (g): 439.35
Constant Weight (g): 398.38

Moisture Content %: 16.7
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: **C**
Tare Weight (g): 58.95
Constant Weight (g): 130.54
Mass of Ash (g): 127.10

Ash Content %: 95.2
Organic Content %: 4.8

Notes / Observations:

Services:

Terracon Rep: Kyle Lemcke

Reported To:

Contractor:

Report Distribution

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Byran York
(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Aron
(1) Geosyntec Consultants, Kaitlin Thell
(1) Geosyntec Consultants, Tom Ramsey

Reviewed By:

Kyle Lemcke
Staff Engineer

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ORGANIC CONTENT REPORT

Report Number: J5211361.0219A
Service Date: 09/11/23
Report Date: 09/14/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 9/11/23
Sample Source: Edger Bree TS4

Test Summary and Results:

Procedure: ASTM F1647

Test Completion Date: 9/14/23

MOISTURE CALCULATIONS

Test Method: **A**
Tare Weight (g): 153.41
Sample Weight (g): 439.35
Constant Weight (g): 398.38

Moisture Content %: 16.7
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: **C**
Tare Weight (g): 67.67
Constant Weight (g): 75.12
Mass of Ash (g): 74.82

Ash Content %: 96.0
Organic Content %: 4.0

Notes / Observations:

Services:

Terracon Rep: Kyle Lemcke

Reported To:

Contractor:

Report Distribution

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Byran York
(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Aron
(1) Geosyntec Consultants, Kaitlin Thell
(1) Geosyntec Consultants, Tom Ramsey

Reviewed By:

Kyle Lemcke
Staff Engineer

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ORGANIC CONTENT REPORT

Report Number: J5211361.0219A
Service Date: 09/11/23
Report Date: 09/14/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 9/11/23
Sample Source: Edger Bree TS5

Test Summary and Results:

Procedure: ASTM D2974-07a

Test Completion Date: 9/14/23

MOISTURE CALCULATIONS

Test Method: **A**
Tare Weight (g): 154.46
Sample Weight (g): 414.78
Constant Weight (g): 377.45

Moisture Content %: 16.7
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: **C**
Tare Weight (g): 73.93
Constant Weight (g): 129.60
Mass of Ash (g): 126.95

Ash Content %: 95.2
Organic Content %: 4.8

Notes / Observations:

Services:

Terracon Rep: Kyle Lemcke

Reported To:

Contractor:

Report Distribution

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Byran York
(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Aron
(1) Geosyntec Consultants, Kaitlin Thell
(1) Geosyntec Consultants, Tom Ramsey

Reviewed By:

Kyle P. Lemcke

Lemcke, Kyle P
Sep 14 2023 5:43 PM

Kyle Lemcke
Staff Engineer

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ORGANIC CONTENT REPORT

Report Number: J5211361.0219A
Service Date: 09/11/23
Report Date: 09/14/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 9/11/23
Sample Source: Edger Bree TS5

Test Summary and Results:

Procedure: ASTM F1647

Test Completion Date: 9/14/23

MOISTURE CALCULATIONS

Test Method: **A**
Tare Weight (g): 154.46
Sample Weight (g): 414.78
Constant Weight (g): 377.45

Moisture Content %: 16.7
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: **C**
Tare Weight (g): 76.00
Constant Weight (g): 85.45
Mass of Ash (g): 85.04

Ash Content %: 95.7
Organic Content %: 4.3

Notes / Observations:

Services:

Terracon Rep: Kyle Lemcke

Reported To:

Contractor:

Report Distribution

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Byran York
(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Aron
(1) Geosyntec Consultants, Kaitlin Thell
(1) Geosyntec Consultants, Tom Ramsey

Reviewed By:

Kyle Lemcke
Staff Engineer

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ORGANIC CONTENT REPORT

Report Number: J5211361.0219A
Service Date: 09/11/23
Report Date: 09/14/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 9/11/23
Sample Source: Edger Bree TS6

Test Summary and Results:

Procedure: ASTM D2974-07a

Test Completion Date: 9/14/23

MOISTURE CALCULATIONS

Test Method: **A**
Tare Weight (g): 155.03
Sample Weight (g): 449.73
Constant Weight (g): 410.82

Moisture Content %: 15.2
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: **C**
Tare Weight (g): 71.38
Constant Weight (g): 132.31
Mass of Ash (g): 129.27

Ash Content %: 95.0
Organic Content %: 5.0

Notes / Observations:

Services:

Terracon Rep: Kyle Lemcke

Reported To:

Contractor:

Report Distribution

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Byran York
(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Aron
(1) Geosyntec Consultants, Kaitlin Thell
(1) Geosyntec Consultants, Tom Ramsey

Reviewed By:

Kyle Lemcke
Staff Engineer

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ORGANIC CONTENT REPORT

Report Number: J5211361.0219A
Service Date: 09/11/23
Report Date: 09/14/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 9/11/23
Sample Source: Edger Bree TS6

Test Summary and Results:

Procedure: ASTM F1647

Test Completion Date: 9/14/23

MOISTURE CALCULATIONS

Test Method: **A**
Tare Weight (g): 155.03
Sample Weight (g): 449.73
Constant Weight (g): 410.82

Moisture Content %: 15.2
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: **C**
Tare Weight (g): 68.33
Constant Weight (g): 76.14
Mass of Ash (g): 75.80

Ash Content %: 95.6
Organic Content %: 4.4

Notes / Observations:

Services:

Terracon Rep: Kyle Lemcke

Reported To:

Contractor:

Report Distribution

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Byran York
(1) Geosyntec Consultants, Paul Botek

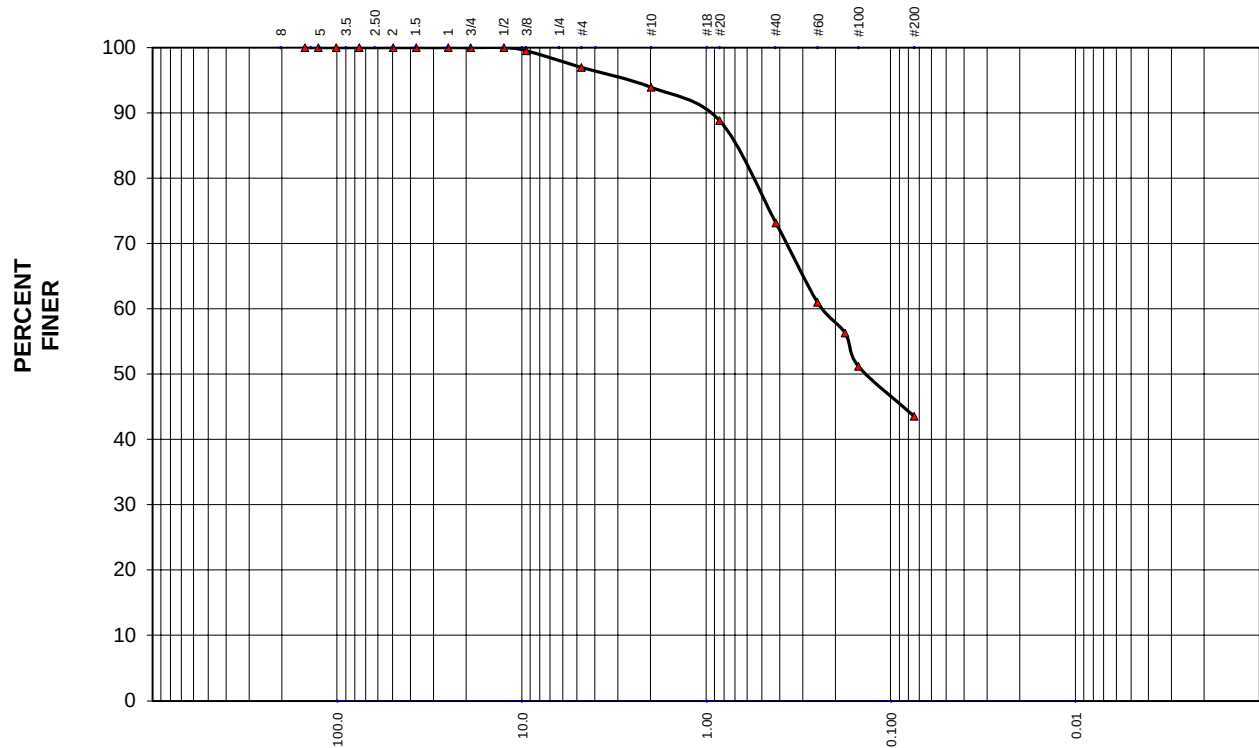
(1) Geosyntec Consultants, Aron
(1) Geosyntec Consultants, Kaitlin Thell
(1) Geosyntec Consultants, Tom Ramsey

Reviewed By:

Kyle Lemcke
Staff Engineer

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GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	3.0	5.7	9.5	84.7	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		53.4	43.6	

Classification: Silty Sand (SM)

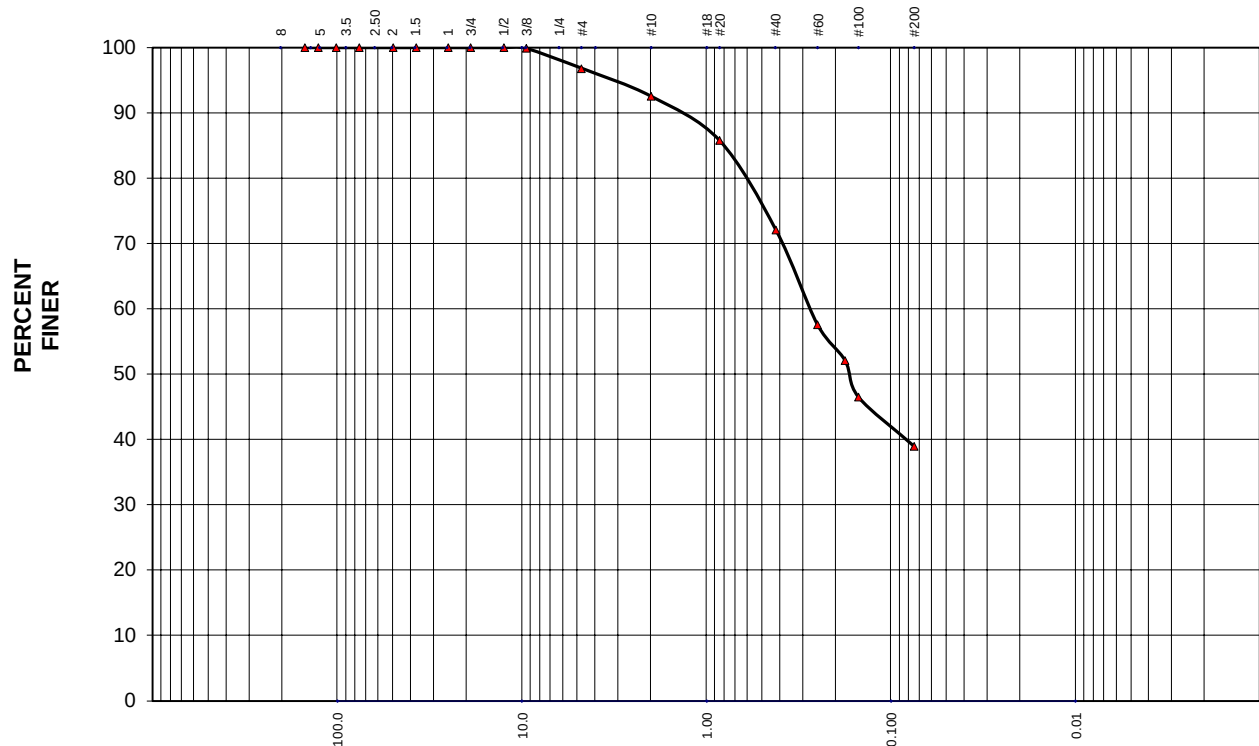
Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	0.00	100			
19.0	3/4"	0.00	100			
12.5	1/2"	0.00	100			
9.5	3/8"	3.32	99.5			
4.75	#4	18.05	97			
2.00	#10	39.74	94			
0.850	#20	75.62	89			
0.420	#40	186.78	73			
0.250	#60	272.18	61			
0.177	#80	305.65	56			
0.150	#100	341.55	51			
0.075	#200	395.43	44			

Total Dry Wt. 713.25 g
Split Wt. 703.52 g

Project: Elmira HS Football Field	Project No.: J5211361	Date: 9/28/2023
Location: Elmira, New York	Specification: ASTM D6913	
Source: Edger Bree TS4		

15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/		Remarks: Tested By: K. Lemcke Date: 9/27/2023
--	--	--

GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	3.2	7.4	11.7	80.9	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		57.9	39.0	

Classification: Silty Sand (SM)

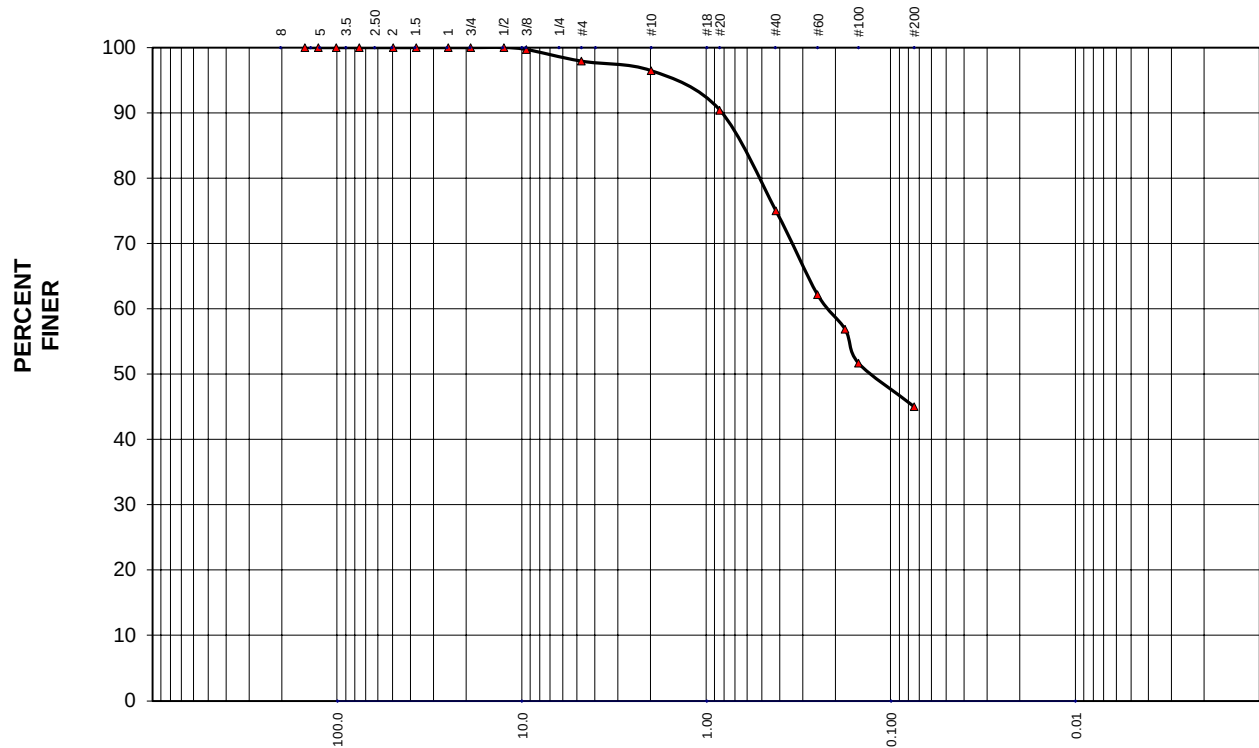
Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	0.00	100			
19.0	3/4"	0.00	100			
12.5	1/2"	0.00	100			
9.5	3/8"	1.10	99.9			
4.75	#4	22.41	97			
2.00	#10	53.81	93			
0.850	#20	103.67	86			
0.420	#40	204.55	72			
0.250	#60	311.64	58			
0.177	#80	351.94	52			
0.150	#100	392.99	47			
0.075	#200	448.87	39			

Total Dry Wt. 737.15 g
Split Wt. 736.06 g

Project: Elmira HS Football Field	Project No.: J5211361	Date: 9/28/2023
Location: Elmira, New York	Specification: ASTM D6913	
Source: Edger Bree TS5		

15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/	Remarks: Tested By: K. Lemcke Date: 9/27/2023
--	--

GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	2.1	2.6	11.5	85.9	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		52.9	45.0	

Classification: Silty Sand (SM)

Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Specification Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	0.00	100			
19.0	3/4"	0.00	100			
12.5	1/2"	0.00	100			
9.5	3/8"	2.02	99.7			
4.75	#4	12.90	98			
2.00	#10	22.76	97			
0.850	#20	65.78	90			
0.420	#40	175.56	75			
0.250	#60	266.08	62			
0.177	#80	304.12	57			
0.150	#100	340.30	52			
0.075	#200	387.85	45			

Total Dry Wt. 710.21 g
Split Wt. 707.3 g

Project: Elmira HS Football Field	Project No.: J5211361	Date: 9/28/2023
Location: Elmira, New York	Specification: ASTM D6913	
Source: Edger Bree TS6		

15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/	Remarks: Tested By: K. Lemcke Date: 9/27/2023
--	--

Report Number

23-269-0006

Account Number

19220

Send To: Terracon Rochester
15 Marway Circle
Suite 2B
Rochester, NY 14624



280 Newport Rd, Leola, PA 17540
Main 717.656.9326 ° Fax 717.656.0910
www.waypointanalytical.com

Page: 1 of 3**Project:** Project# J5211361**Purchase Order:****Report Date:** 09/27/2023**Date Received:** 09/26/2023**REPORT OF ANALYSIS****Date Sampled:** 09/26/2023

Lab Number: 96483

Sample ID: Brees TS4

Analysis	Result	Quantitation Limit	Method	Date and Time Test Started	Analyst
pH	7.27		Water pH		
Soluble Salts , dS/m	0.45	0.01	Soluble Salts	09/27/2023 08:00	AR

Method Reference:

Methods of Soil Analysis, Part 3 - Chemical Methods, 1996

Recommended Chemical Soil Test Procedures for the North Central Region. NCR Research Pub. No. 221 Revised.

Comments:

A handwritten signature in black ink that reads "Robin L Finkill". The signature is written in a cursive, flowing style.

Robin L Finkill
Laboratory Manager

Report Number

23-269-0006

Account Number

19220

Send To: Terracon Rochester
15 Marway Circle
Suite 2B
Rochester, NY 14624



280 Newport Rd, Leola, PA 17540
Main 717.656.9326 ° Fax 717.656.0910
www.waypointanalytical.com

Page: 2 of 3**Project:** Project# J5211361**Purchase Order:****Report Date:** 09/27/2023**Date Received:** 09/26/2023**Date Sampled:** 09/26/2023**REPORT OF ANALYSIS**

Lab Number: 96484

Sample ID: Brees TS5

Analysis	Result	Quantitation Limit	Method	Date and Time Test Started	Analyst
pH	7.28		Water pH		
Soluble Salts , dS/m	0.51	0.01	Soluble Salts	09/27/2023 08:00	AR

Method Reference:

Methods of Soil Analysis, Part 3 - Chemical Methods, 1996

Recommended Chemical Soil Test Procedures for the North Central Region. NCR Research Pub. No. 221 Revised.

Comments:

A handwritten signature in black ink that reads "Robin L Finkill". The signature is written in a cursive, flowing style.

Robin L Finkill
Laboratory Manager

Report Number

23-269-0006

Account Number

19220

Send To: Terracon Rochester
15 Marway Circle
Suite 2B
Rochester, NY 14624



280 Newport Rd, Leola, PA 17540
Main 717.656.9326 ° Fax 717.656.0910
www.waypointanalytical.com

Page: 3 of 3**Project:** Project# J5211361**Purchase Order:****Report Date:** 09/27/2023**Date Received:** 09/26/2023**Date Sampled:** 09/26/2023

Lab Number: 96485
Sample ID: Brees TS6

REPORT OF ANALYSIS

Analysis	Result	Quantitation Limit	Method	Date and Time Test Started	Analyst
pH	7.20		Water pH		
Soluble Salts , dS/m	0.53	0.01	Soluble Salts	09/27/2023 08:00	AR

Method Reference:

Methods of Soil Analysis, Part 3 - Chemical Methods, 1996

Recommended Chemical Soil Test Procedures for the North Central Region. NCR Research Pub. No. 221 Revised.

Comments:

A handwritten signature in black ink that reads "Robin L Finkill". The signature is written in a cursive, flowing style.

Robin L Finkill
Laboratory Manager

TOPSOIL ANALYSIS REPORT

Report Number: J5211361.0220A
Service Date: 10/16/23
Report Date: 10/24/23
Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 10/16/23
Sample Source: Edger Bree TS7

Test Summary and Results:

Procedure: ASTM D2974-07a

Test Completion Date: 10/20/23

MOISTURE CALCULATIONS

Test Method: A
Tare Weight (g): 139.01
Sample Weight (g): 197.22
Constant Weight (g): 186.06

Moisture Content %: 23.7
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: C
Tare Weight (g): 63.34
Constant Weight (g): 115.32
Mass of Ash (g): 111.84

Ash Content %: 93.3
Organic Content %: 6.7

Notes / Observations:

Services:

Terracon Rep: Kyle Lemcke

Reported To:

Contractor:

Report Distribution

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Byran York
(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Aron
(1) Geosyntec Consultants, Kaitlin Theil
(1) Geosyntec Consultants, Tom Ramsey

Reviewed By:

Kyle Lemcke
Laboratory Manager

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

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Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 10/16/23
Sample Source: Edger Bree TS7

Test Summary and Results:

Procedure: ASTM F1647

Test Completion Date: 10/20/23

MOISTURE CALCULATIONS

Test Method: **A**
Tare Weight (g): 30.87
Sample Weight (g): 53.82
Constant Weight (g): 49.11

Moisture Content %: 25.8
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: **C**
Tare Weight (g): 30.87
Constant Weight (g): 49.11
Mass of Ash (g): 48.14

Ash Content %: 94.7
Organic Content %: 5.3

Notes / Observations:

Services:

Terracon Rep: Kyle Lemcke

Reported To:

Contractor:

Report Distribution

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Reviewed By:

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Laboratory Manager

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Rochester, NY 14624-2300
585-247-3471

Client

Geosyntec Consultants
Attn: Miranda Stelmach
111 N. Broadway, Suite C
Green Bay, WI 54303

Project

Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 10/16/23
Sample Source: Edger Bree TS8

Test Summary and Results:

Procedure: ASTM D2974-07a

Test Completion Date: 10/20/23

MOISTURE CALCULATIONS

Test Method: **A**
Tare Weight (g): 136.62
Sample Weight (g): 216.02
Constant Weight (g): 201.2

Moisture Content %: 22.9
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: **C**
Tare Weight (g): 62.42
Constant Weight (g): 126.99
Mass of Ash (g): 122.37

Ash Content %: 92.8
Organic Content %: 7.2

Notes / Observations:

Services:

Terracon Rep: Kyle Lemcke

Reported To:

Contractor:

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Elmira High School Football Field
777 S Main St
C/E Project No. MN08321/28
Elmira, NY
Project No. J5211361

Sample Data:

Date of Sampling: 10/16/23
Sample Source: Edger Bree TS8

Test Summary and Results:

Procedure: ASTM F1647

Test Completion Date: 10/20/23

MOISTURE CALCULATIONS

Test Method: **A**
Tare Weight (g): 71.09
Sample Weight (g): 126.04
Constant Weight (g): 115.8

Moisture Content %: 22.9
(As a percentage of oven dried mass)

ORGANIC CONTENT CALCULATIONS

Test Method: **C**
Tare Weight (g): 71.09
Constant Weight (g): 115.80
Mass of Ash (g): 113.19

Ash Content %: 94.2
Organic Content %: 5.8

Notes / Observations:

Services:

Terracon Rep: Kyle Lemcke

Reported To:

Contractor:

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Reviewed By:

Kyle Lemcke
Laboratory Manager

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Report Number

23-292-0007

Account Number

19220

Send To: Terracon Rochester
15 Marway Circle
Suite 2B
Rochester, NY 14624



280 Newport Rd, Leola, PA 17540
Main 717.656.9326 ° Fax 717.656.0910
www.waypointanalytical.com

Page: 1 of 2

Project: Terracon Consultants
Project# J5211361

Purchase Order:**Report Date:** 10/24/2023**Date Received:** 10/19/2023**Date Sampled:** 10/19/2023

Lab Number: 96820
Sample ID: Brees TS7

REPORT OF ANALYSIS

Analysis	Result	Quantitation Limit	Method	Date and Time Test Started	Analyst
pH	7.18		Water pH		
Soluble Salts , dS/m	0.86	0.01	Soluble Salts	10/20/2023 09:00	AR

Method Reference:

Methods of Soil Analysis, Part 3 - Chemical Methods, 1996

Recommended Chemical Soil Test Procedures for the North Central Region. NCR Research Pub. No. 221 Revised.

Comments:

A handwritten signature in black ink that reads "Robin L Finkill". The signature is written in a cursive, flowing style.

Robin L Finkill
Laboratory Manager

Report Number

23-292-0007

Account Number

19220

Send To: Terracon Rochester
15 Marway Circle
Suite 2B
Rochester, NY 14624



280 Newport Rd, Leola, PA 17540
Main 717.656.9326 ° Fax 717.656.0910
www.waypointanalytical.com

Page: 2 of 2

Project: Terracon Consultants
Project# J5211361

Purchase Order:**Report Date:** 10/24/2023**Date Received:** 10/19/2023**Date Sampled:** 10/19/2023**REPORT OF ANALYSIS**

Lab Number: 96821

Sample ID: Brees TS8

Analysis	Result	Quantitation Limit	Method	Date and Time Test Started	Analyst
pH	7.23		Water pH		
Soluble Salts , dS/m	0.92	0.01	Soluble Salts	10/20/2023 09:00	AR

Method Reference:

Methods of Soil Analysis, Part 3 - Chemical Methods, 1996

Recommended Chemical Soil Test Procedures for the North Central Region. NCR Research Pub. No. 221 Revised.

Comments:

A handwritten signature in black ink that reads "Robin L Finkill". The signature is written in a cursive, flowing style.

Robin L Finkill
Laboratory Manager

Dry Unit weight of Topsoil (uncompacted)

Sample obtained 3/21/2024

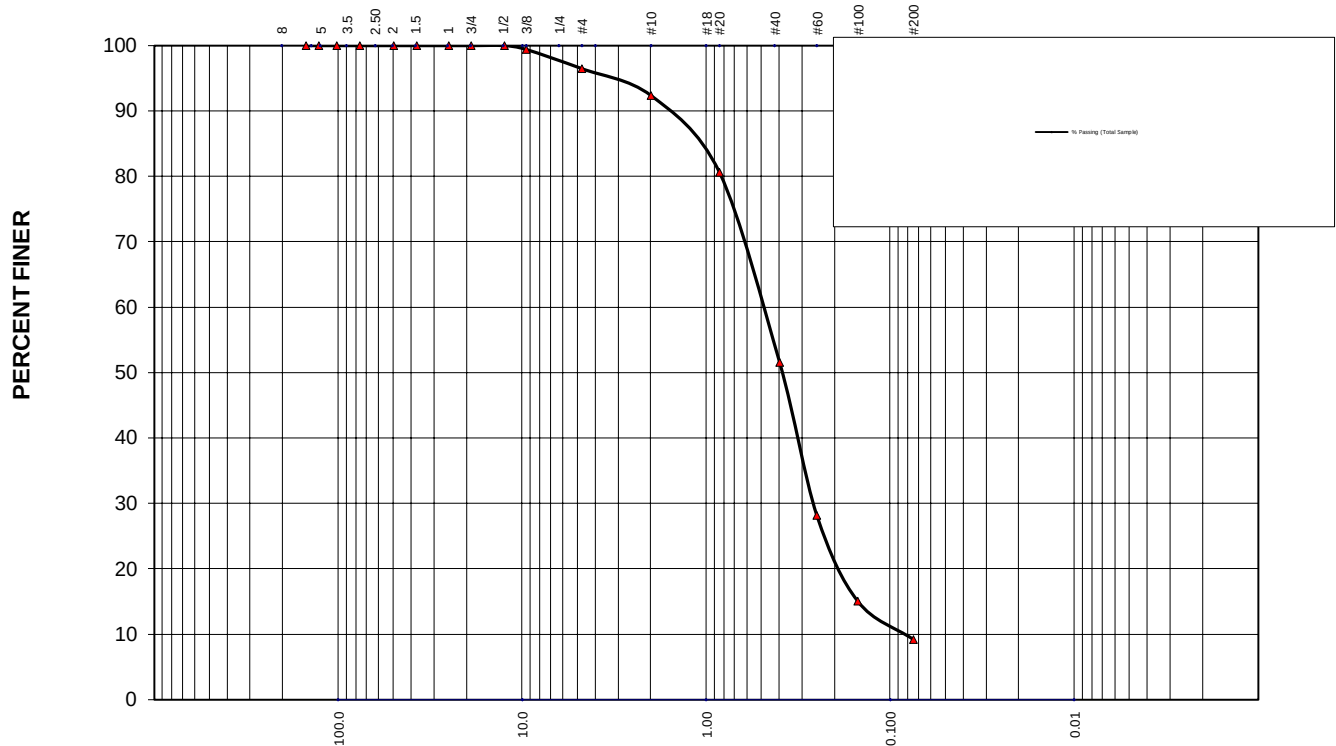
Sample tested 3/22/2024

Dry unit weight = 63.20lb/ft³

Note: The testing does not follow a specific ASTM. The density was determined through calculation of the dry weight of soil within a known volume

Elmira High School Football Field	Site Plan:	 Explore with us
	Report Number: J5211361.0223	
777 S Main St	Technician: Kyle Lemcke	70 Vantage Point Dr, Ste 1
C/E Project No. MN08321/28	Date: 03/22/24	Rochester, NY 14624-1141
Elmira, NY	Scale: Not to Scale	585-247-3471

GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	3.5	4.6	13.5	81.9	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		87.3	9.2	

Classification: **Well Graded Sand with Silt (SW-SM)**

Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	0.00	100			
19.0	3/4"	0.00	100			
12.5	1/2"	0.00	100			
9.5	3/8"	15.00	99			
4.75	#4	95.00	96			
2.00	#10	11.43	92			
0.850	#20	44.89	81			
0.400	#40	127.23	52			
0.250	#60	193.45	28			
0.150	#100	230.72	15			
0.075	#200	247.41	9			

Total Dry Wt. 2685 g
Split Wt. 273.45 g

Project: Elmira High School Football Field	Project No.: J5211361	Date: 4/7/2023
Location: Elmira, New York	Specification: ASTM D422	
Source: Breesport Pit	Sand #1	
15 Marway Circle, Suite 2B Terracon chester, NY 14624 585-247-3471 http://www.terracon.com/		Remarks: Tested By: K. Lemcke Date: 4/6/2023

Distribution Page

Report Number: J5211361.0206A

Service Date: 03/29/23

Report Date: 04/11/23

Task:

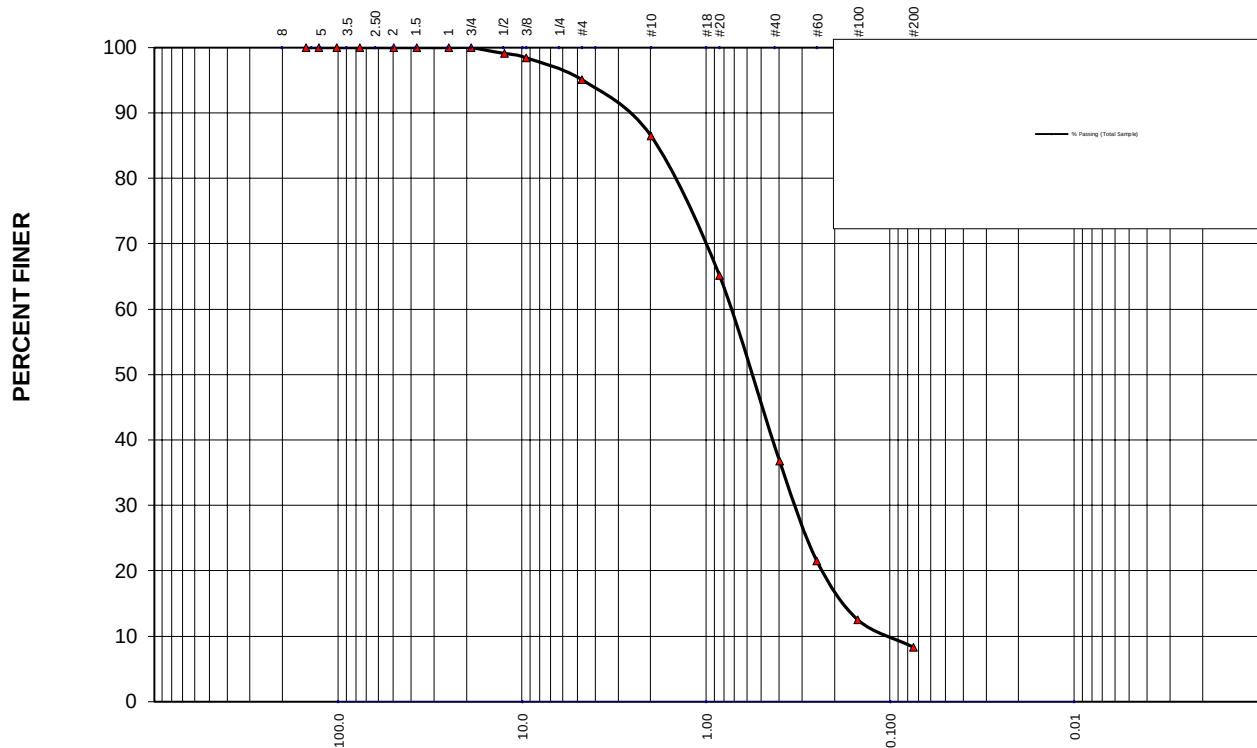


15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Distribution List

- (1) Geosyntec Consultants, Miranda Stelmach
- (1) Geosyntec Consultants, Aron Krasnopoler
- (1) Geosyntec Consultants, Brian Harris
- (1) Geosyntec Consultants, Byran York
- (1) Geosyntec Consultants, Colin Lamas
- (1) Geosyntec Consultants, Kaitlin Thell Ouverson
- (1) Geosyntec Consultants, Paul Botek
- (1) Geosyntec Consultants, Paul Brookner
- (1) Geosyntec Consultants, Tom Ramsey
- (1) Geosyntec Consultants, William Steier

GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	4.9	9.9	24.6	65.5	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		86.7	8.4	

Classification: Well Graded Sand with Silt (SW-SM)

Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	0.00	100			
19.0	3/4"	0.00	100			
12.5	1/2"	20.00	99			
9.5	3/8"	35.00	98			
4.75	#4	110.00	95			
2.00	#10	37.38	87			
0.850	#20	130.21	65			
0.400	#40	253.89	37			
0.250	#60	320.20	22			
0.150	#100	359.37	13			
0.075	#200	377.62	8			

Total Dry Wt. 2245 g
Split Wt. 414.13 g

Project: Elmira High School Football Field	Project No.: J5211361	Date: 4/7/2023
Location: Elmira, New York	Specification: ASTM D422	
Source: Breesport Pit	Sand #2	
15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/		Remarks: Tested By: K. Lemcke Date: 4/6/2023

Distribution Page

Report Number: J5211361.0206B

Service Date: 03/29/23

Report Date: 04/11/23

Task:



15 Marway Cir, Ste 2B

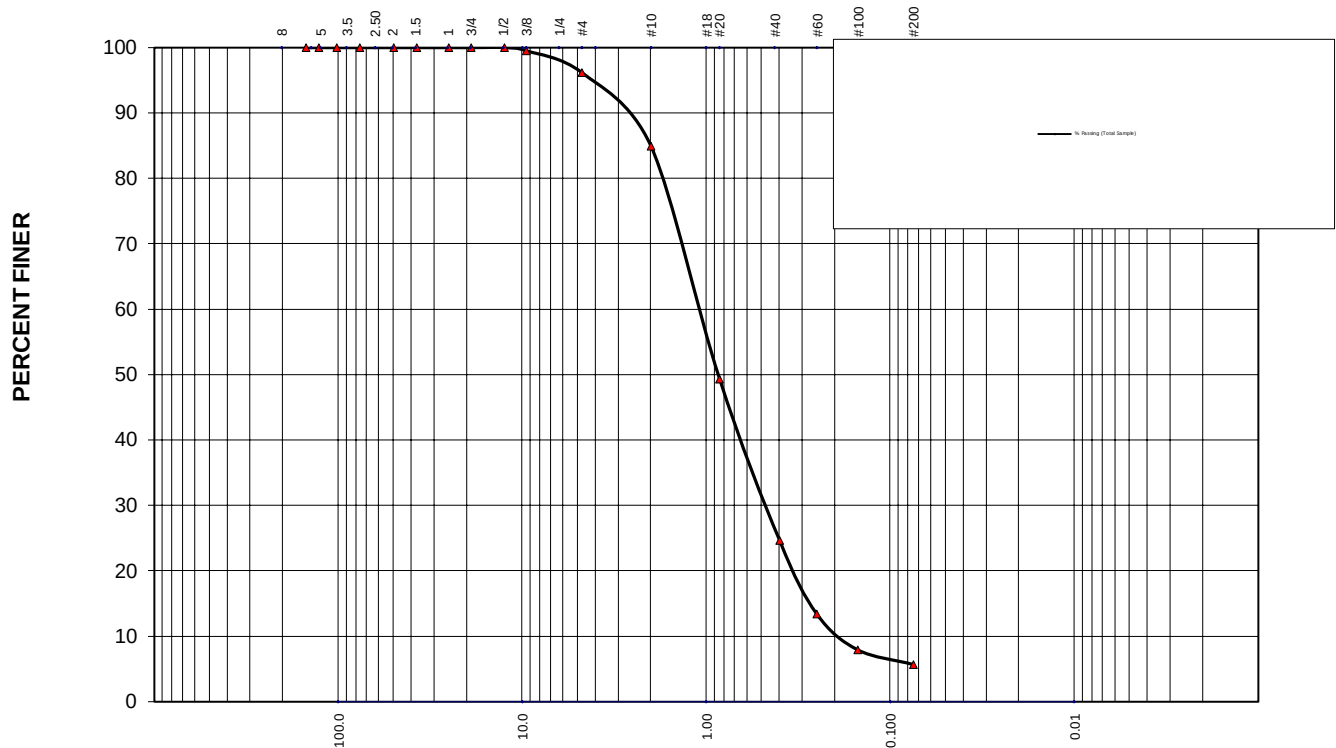
Rochester, NY 14624-2300

585-247-3471

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- (1) Geosyntec Consultants, Aron Krasnopoler
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- (1) Geosyntec Consultants, Colin Lamas
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- (1) Geosyntec Consultants, Paul Botek
- (1) Geosyntec Consultants, Paul Brookner
- (1) Geosyntec Consultants, Tom Ramsey
- (1) Geosyntec Consultants, William Steier

GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	3.8	12.4	39.4	48.3	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		90.4	5.8	

Classification: Well Graded Sand with Silt (SW-SM)

Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	0.00	100			
19.0	3/4"	0.00	100			
12.5	1/2"	0.00	100			
9.5	3/8"	5.00	100			
4.75	#4	45.00	96			
2.00	#10	52.21	85			
0.850	#20	218.36	49			
0.400	#40	333.61	25			
0.250	#60	386.32	13			
0.150	#100	411.70	8			
0.075	#200	422.05	6			

Total Dry Wt. 1175 g
Split Wt. 448.9 g

Project: Elmira High School Football Field	Project No.: J5211361	Date: 4/11/2023
Location: Elmira, New York	Specification: ASTM D422	
Source: Breesport Pit	Sand #3	
15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/		Remarks: Tested By: K. Lemcke Date: 4/10/2023

Distribution Page

Report Number: J5211361.0206C

Service Date: 03/29/23

Report Date: 04/11/23

Task:



15 Marway Cir, Ste 2B

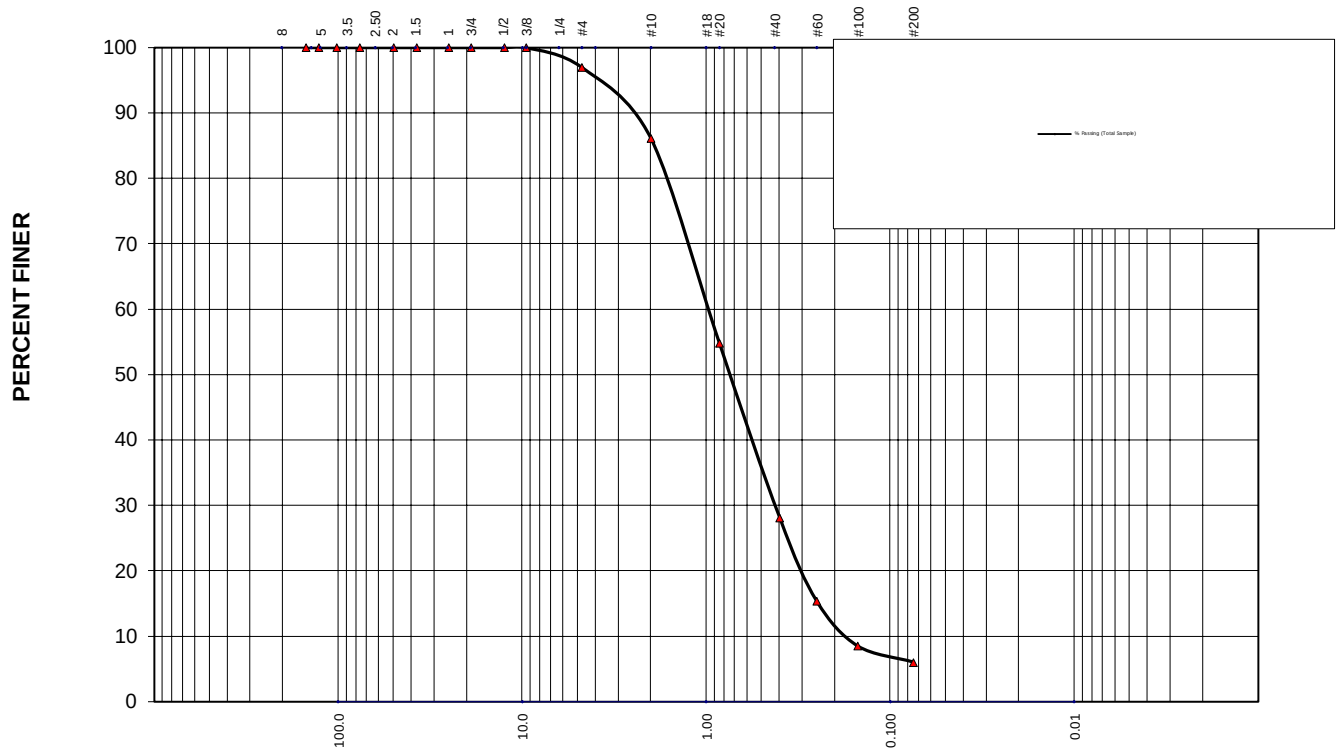
Rochester, NY 14624-2300

585-247-3471

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- (1) Geosyntec Consultants, Paul Brookner
- (1) Geosyntec Consultants, Tom Ramsey
- (1) Geosyntec Consultants, William Steier

GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	3.0	12.0	34.4	53.7	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		90.9	6.1	

Classification: Well Graded Sand with Silt (SW-SM)

Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	0.00	100			
19.0	3/4"	0.00	100			
12.5	1/2"	0.00	100			
9.5	3/8"	0.00	100			
4.75	#4	20.00	97			
2.00	#10	38.83	86			
0.850	#20	150.44	55			
0.400	#40	245.69	28			
0.250	#60	291.40	15			
0.150	#100	315.56	9			
0.075	#200	324.63	6			

Total Dry Wt. 660 g
Split Wt. 346.24 g

Project: Elmira High School Football Field	Project No.: J5211361	Date: 4/11/2023
Location: Elmira, New York	Specification: ASTM D422	
Source: Breesport Pit	Sand #4	
15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/		Remarks: Tested By: K. Lemcke Date: 4/10/2023

Distribution Page

Report Number: J5211361.0206D

Service Date: 03/29/23

Report Date: 04/11/23

Task:



15 Marway Cir, Ste 2B

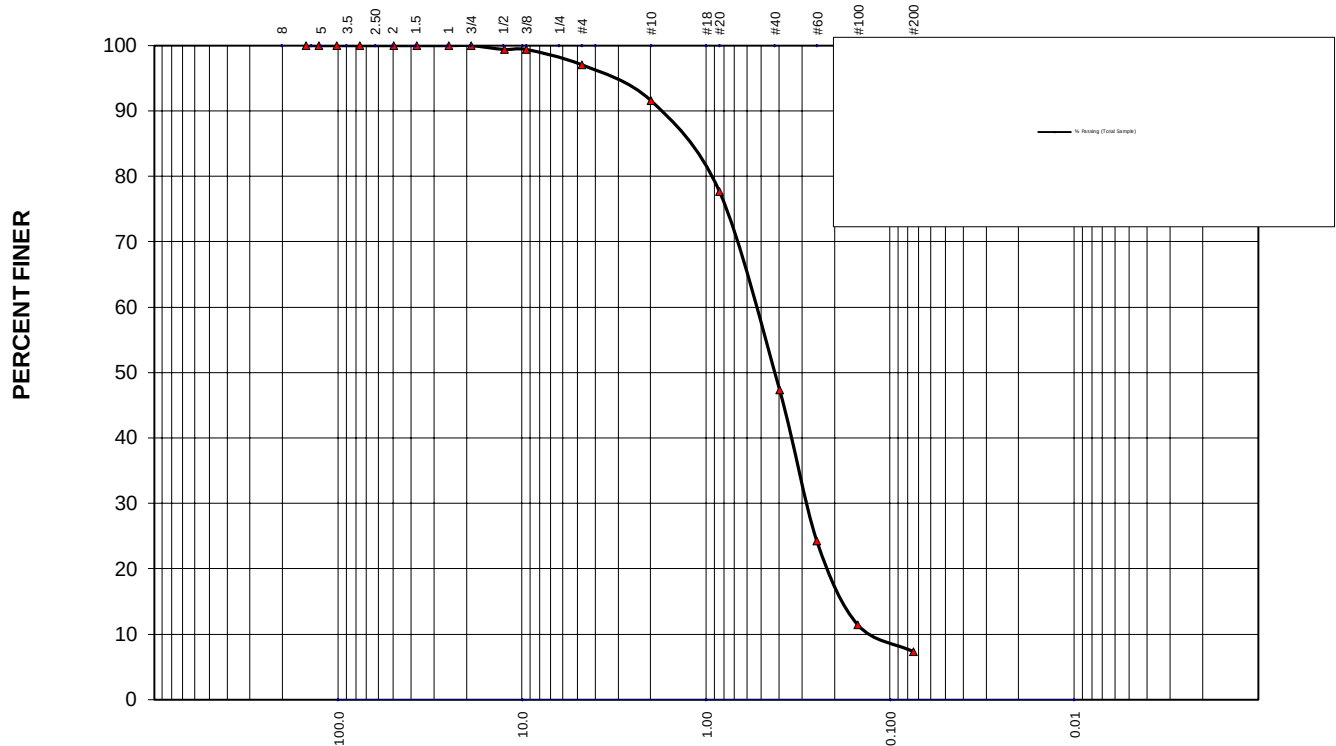
Rochester, NY 14624-2300

585-247-3471

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- (1) Geosyntec Consultants, Paul Brookner
- (1) Geosyntec Consultants, Tom Ramsey
- (1) Geosyntec Consultants, William Steier

GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	2.9	6.0	15.5	78.4	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		89.6	7.4	

Classification: Well Graded Sand with Silt (SW-SM)

Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	0.00	100			
19.0	3/4"	0.00	100			
12.5	1/2"	5.00	99			
9.5	3/8"	5.00	99			
4.75	#4	25.00	97			
2.00	#10	22.51	92			
0.850	#20	80.48	78			
0.400	#40	206.69	47			
0.250	#60	302.66	24			
0.150	#100	355.77	12			
0.075	#200	372.86	7			

Total Dry Wt. 850 g
Split Wt. 403.7 g

Project: Elmira High School Football Field	Project No.: J5211361	Date: 4/11/2023
Location: Elmira, New York	Specification: ASTM D422	
Source: Breesport Pit	Sand #5	
15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/		Remarks: Tested By: K. Lemcke Date: 4/10/2023

Distribution Page

Report Number: J5211361.0206E

Service Date: 03/29/23

Report Date: 04/11/23

Task:



15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
585-247-3471

Distribution List

- (1) Geosyntec Consultants, Miranda Stelmach
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- (1) Geosyntec Consultants, Brian Harris
- (1) Geosyntec Consultants, Byran York
- (1) Geosyntec Consultants, Colin Lamas
- (1) Geosyntec Consultants, Kaitlin Thell Ouverson
- (1) Geosyntec Consultants, Paul Botek
- (1) Geosyntec Consultants, Paul Brookner
- (1) Geosyntec Consultants, Tom Ramsey
- (1) Geosyntec Consultants, William Steier

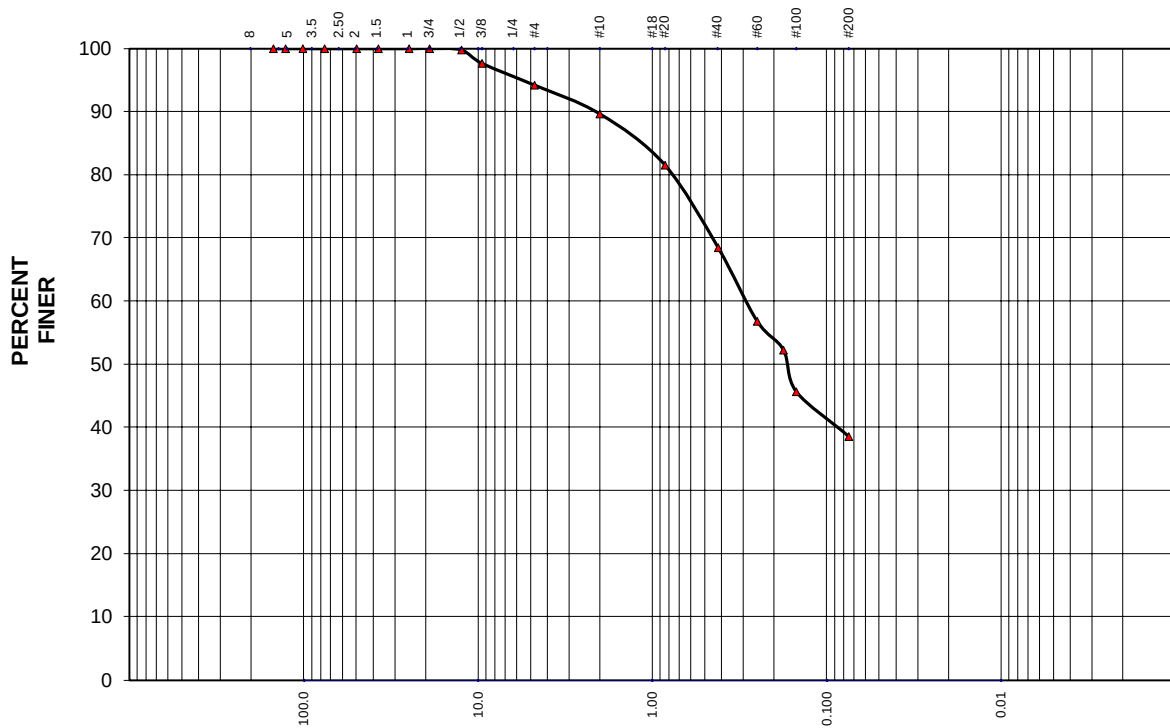
The following table represents the data points estimated from the graph:

Sieve Size (mm)	Percent Finer (%)
1000	100
750	100
600	100
425	100
300	100
250	100
200	100
150	100
118	100
100	100
75	100
60	100
42.5	100
37.5	100
30	100
25	100
20	100
15	100
12.5	100
11.8	100
10.0	100
7.5	100
6.0	100
4.75	100
4.25	100
3.75	100
3.0	100
2.5	100
2.0	100
1.5	100
1.18	100
1.0	100
0.85	100
0.75	100
0.60	100
0.50	100
0.425	100
0.375	100
0.30	100
0.25	100
0.20	100
0.15	100
0.125	100
0.10	100
0.075	100
0.060	100
0.050	100
0.0425	100
0.0375	100
0.030	100
0.025	100
0.020	100
0.015	100
0.0125	100
0.010	100
0.0075	100
0.0060	100
0.0050	100
0.00425	100
0.00375	100
0.0030	100
0.0025	100
0.0020	100
0.0015	100
0.00125	100
0.0010	100
0.00075	100
0.00060	100
0.00050	100
0.000425	100
0.000375	100
0.00030	100
0.00025	100
0.00020	100
0.00015	100
0.000125	100
0.00010	100
0.000075	100
0.000060	100
0.000050	100
0.0000425	100
0.0000375	100
0.000030	100
0.000025	100
0.000020	100
0.000015	100
0.0000125	100
0.000010	100
0.0000075	100
0.0000060	100
0.0000050	100
0.00000425	100
0.00000375	100
0.0000030	100
0.0000025	100
0.0000020	100
0.0000015	100
0.00000125	100
0.0000010	100
0.00000075	100
0.00000060	100
0.00000050	100
0.000000425	100
0.000000375	100
0.00000030	100
0.00000025	100
0.00000020	100
0.00000015	100
0.000000125	100
0.00000010	100
0.000000075	100
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0.000000050	100
0.0000000425	100
0.0000000375	100
0.000000030	100
0.000000025	100
0.000000020	100
0.000000015	100
0.0000000125	100
0.000000010	100
0.0000000075	100
0.0000000060	100
0.0000000050	100
0.00000000425	100
0.00000000375	100
0.0000000030	100
0.0000000025	100
0.0000000020	100
0.0000000015	100
0.00000000125	100
0.0000000010	100
0.00000000075	100
0.00000000060	100
0.00000000050	100
0.000000000425	100
0.000000000375	100
0.00000000030	100
0.00000000025	100
0.00000000020	100
0.00000000015	100
0.000000000125	100
0.00000000010	100
0.000000000075	100
0.000000000060	100
0.000000000050	100
0.0000000000425	100
0.0000000000375	100
0.000000000030	100
0.000000000025	100
0.000000000020	100
0.000000000015	1

Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	0.00	100			
19.0	3/4"	0.00	100			
12.5	1/2"	0.00	100			
9.5	3/8"	18.42	99			
4.75	#4	18.39	95			
2.00	#10	42.87	91			
0.850	#20	84.29	83			
0.420	#40	155.94	69			
0.250	#60	222.64	56			
0.177	#80	261.04	49			
0.150	#100	283.58	45			
0.075	#200	325.05	37			
Total Dry Wt.			1770	g		
Split Wt.			516.18	g		

J2C136, 5-28-10, Rev. 9

GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		8.1	14.6	77.2	Silt (>0.002mm)	Clay (<0.002mm)
0.0	5.8	% Sand		55.6	38.6	

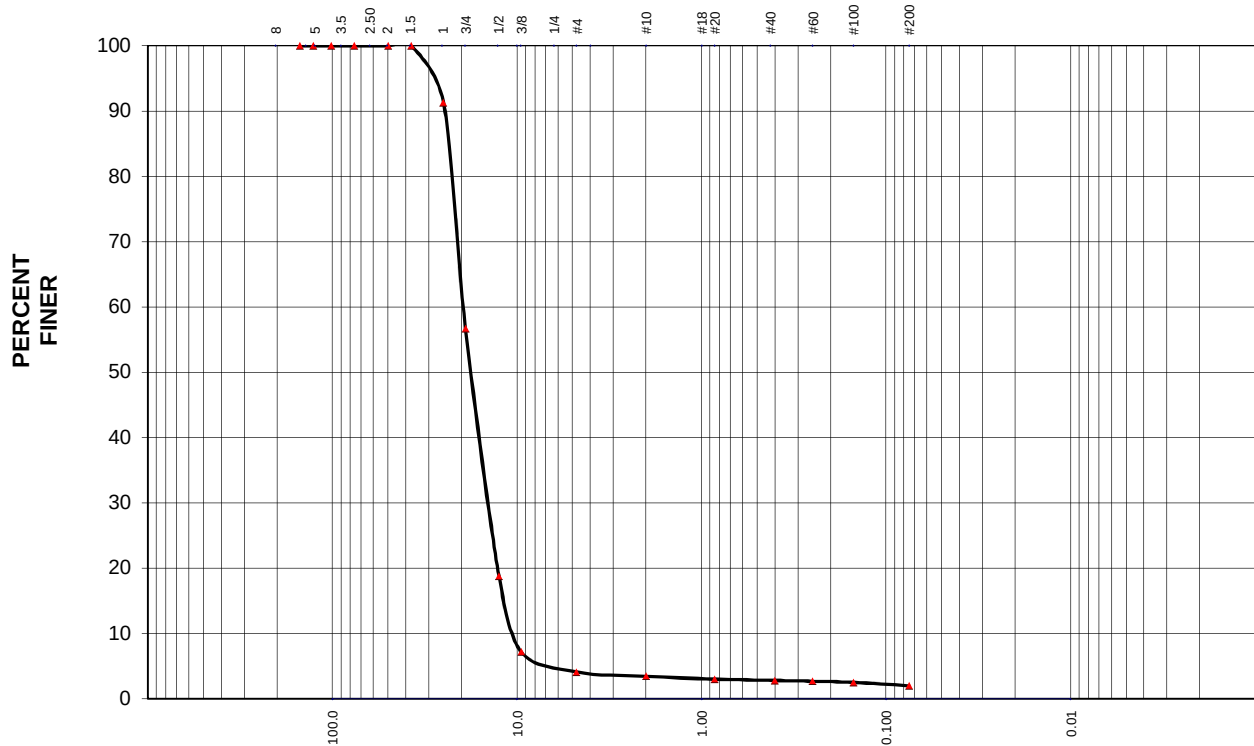
Classification: Silty Sand (SM)

Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Specification Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	0.00	100			
19.0	3/4"	0.00	100			
12.5	1/2"	3.36	99.7			
9.5	3/8"	30.16	98			
4.75	#4	17.89	94			
2.00	#10	41.43	90			
0.850	#20	83.72	82			
0.420	#40	151.57	68			
0.250	#60	212.45	57			
0.177	#80	235.84	52			
0.150	#100	269.95	46			
0.075	#200	306.84	39			

Total Dry Wt. 1275 g
Split Wt. 507.46 g

Project: Elmira HS Football Field	Project No.: J5211361	Date: 11/10/2023
Location: Elmira, New York	Specification: ASTM D6913	
Source: Edger Bree TS8		
 15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/	Remarks:	
	Tested By: K. Lemcke	Date: 11/9/2023

GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	95.9	31.4	20.7	47.8	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		2.1	2.0	

Classification: #57 Stone

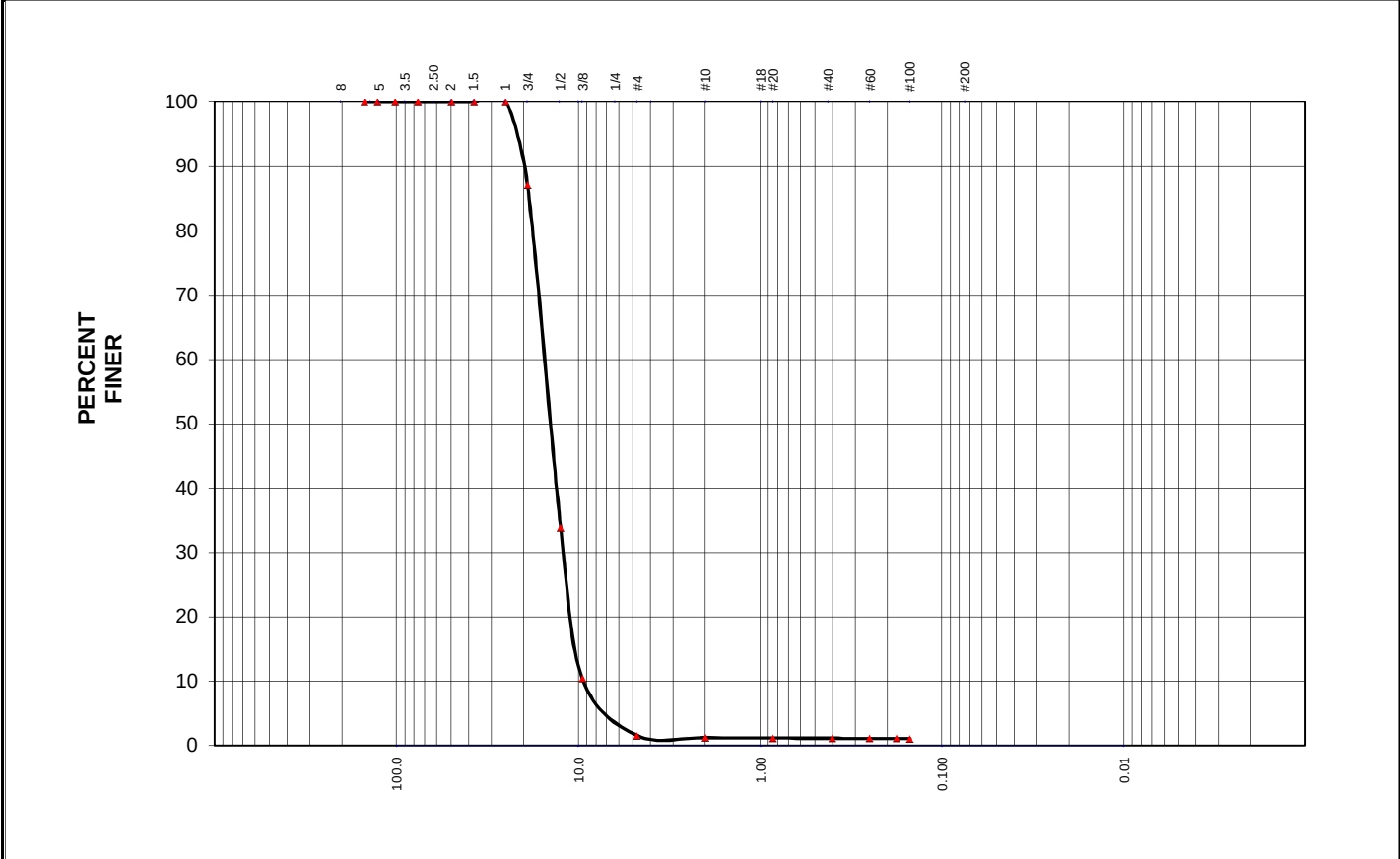
Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	805.00	91			
19.0	3/4"	4005.00	57			
12.5	1/2"	7520.00	19			
9.5	3/8"	8590.00	7.2			
4.75	#4	8875.00	4.1			
2.00	#10	65.43	3.4			
0.850	#20	108.56	3.0			
0.400	#40	127.57	2.8			
0.250	#60	139.88	2.7			
0.150	#100	157.63	2.5			
0.075	#200	208.06	2.0			

Total Dry Wt. 9255 g
Split Wt. 405.71 g

Project: Elmira High School Football Field	Project No.: J5211361	Date: 4/25/2022
Location: Elmira, New York	Specification: ASTM C136	
Source: Lawrenceville Quarry		

Terracon 15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/	Remarks: Tested By: K. Lemcke Date: 4/23/2022
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GRAIN SIZE DISTRIBUTION TEST REPORT ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		69.7	13.2	17.2	Silt (>0.002mm)	Clay (<0.002mm)
0.0	98.4	% Sand		0.5	1.1	

Classification:	#57 stone
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Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	0.00	100			
19.0	3/4"	1885.00	87			
12.5	1/2"	9635.00	34			
9.5	3/8"	13050.00	10			
4.75	#4	14340.00	1.6			
2.00	#10	40.62	1.2			
0.850	#20	48.30	1.2			
0.400	#40	52.11	1.1			
0.250	#60	54.97	1.1			
0.177	#80	56.14	1.1			
0.150	#100	58.30	1.1			
0.075	#200	66.23	1.0			
Total Dry Wt.		14570	g			
Split Wt.		184.88	g			

Project: Elmira HS Football Field	Project No.: J5211361	Date: 5/2/2022
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Project No.: J5211361	Date: 5/2/2022
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Date:	5/2/2022
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Location: Elmira, New York	Specification: ASTM C136	
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Specification:	ASTM C136
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Source	Hawbaker - Erwin Quarry	Sample #2
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Sample #2

Terracop 15 Marway Circle, Suite 2B
Rochester, NY 14624

Remarks:

Tested By:	K. Lemcke	Date:	4/29/2022
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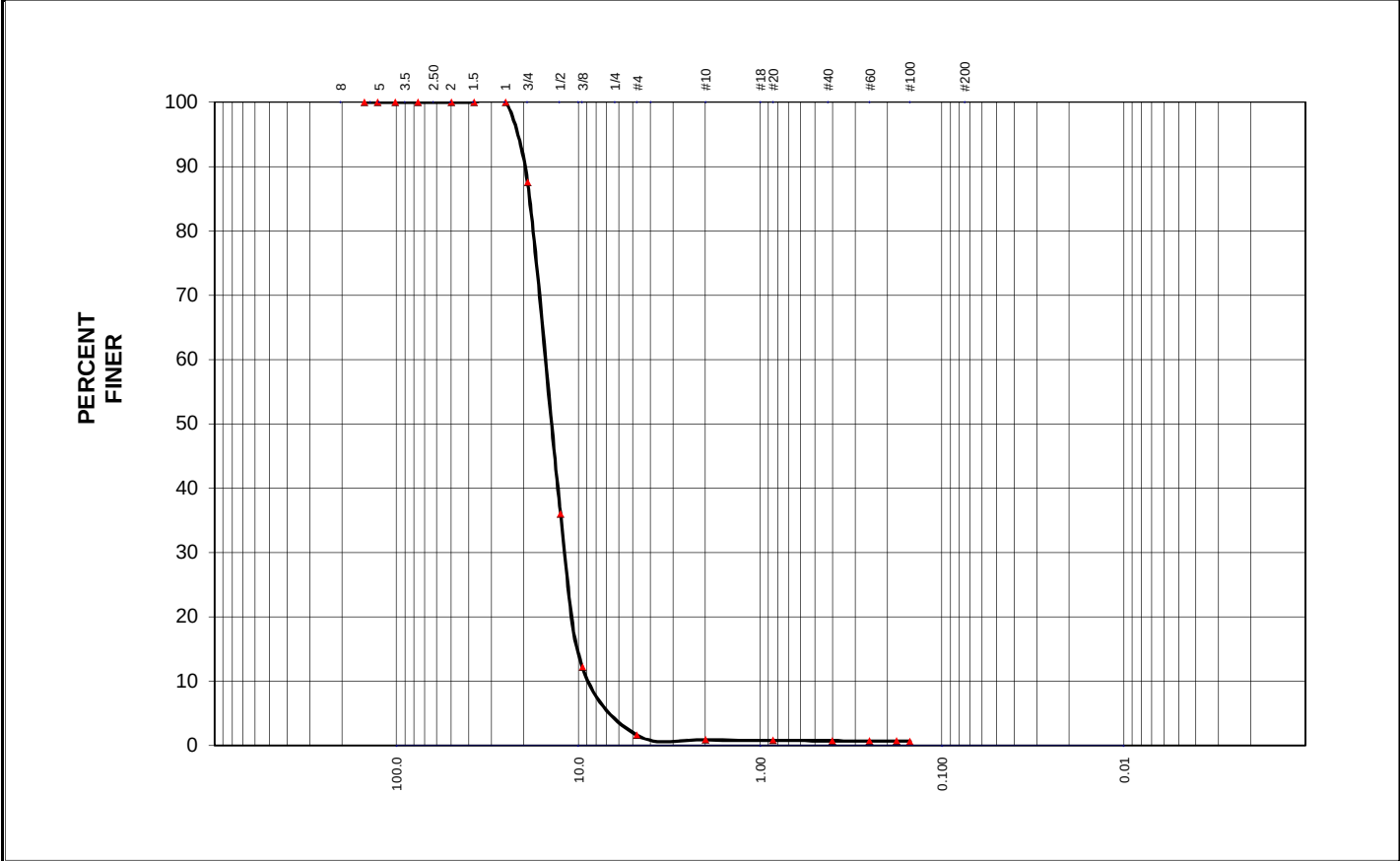
Date: 4/29/2022

Terracon

585-247-3471

<http://www.terracon.com/>

GRAIN SIZE DISTRIBUTION TEST REPORT ASTM TEST METHODS: C136, C117, D2487



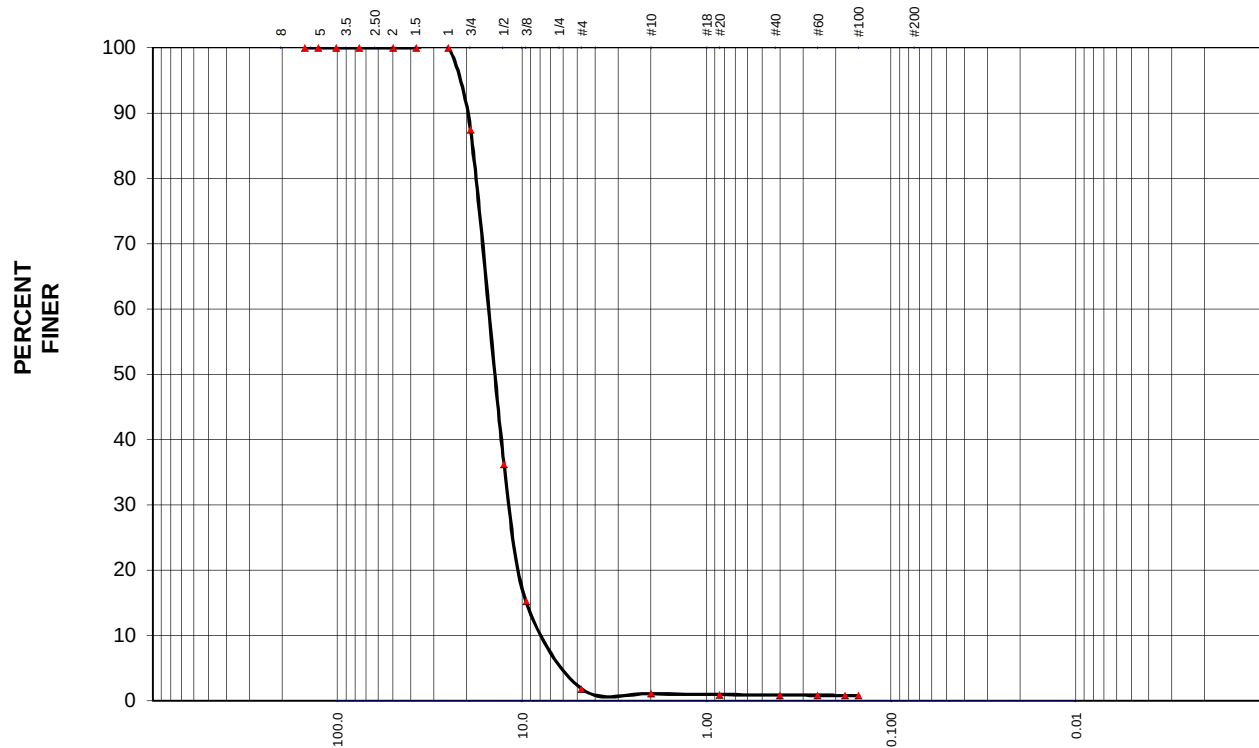
% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		74.4	13.6	11.9	Silt (>0.002mm)	Clay (<0.002mm)
0.0	98.4	% Sand		0.9	0.7	

Classification:	#57 stone
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Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	0.00	100			
19.0	3/4"	1640.00	88			
12.5	1/2"	8415.00	36			
9.5	3/8"	11545.00	12			
4.75	#4	12935.00	1.6			
2.00	#10	93.60	0.9			
0.850	#20	110.74	0.8			
0.400	#40	118.02	0.7			
0.250	#60	122.05	0.7			
0.177	#80	124.28	0.7			
0.150	#100	125.75	0.7			
0.075	#200	133.43	0.6			
Total Dry Wt.		13145	g			
Split Wt.		221	g			

J2C136, 5-28-10, Rev. 9

GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	98.2	70.0	15.2	14.8	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		1.0	0.8	

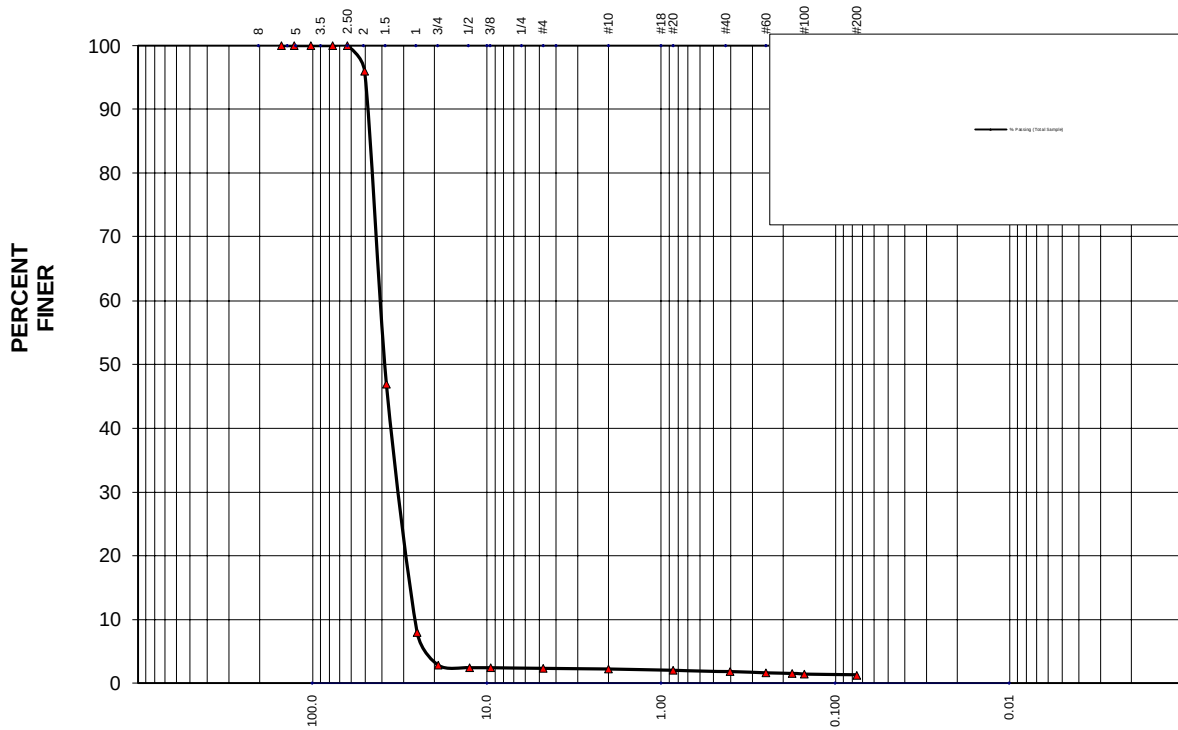
Classification: #57 stone

Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	0.00	100			
19.0	3/4"	1645.00	87			
12.5	1/2"	8385.00	36			
9.5	3/8"	11145.00	15			
4.75	#4	12905.00	1.8			
2.00	#10	61.31	1.1			
0.850	#20	74.60	1.0			
0.400	#40	80.50	0.9			
0.250	#60	83.91	0.8			
0.177	#80	86.07	0.8			
0.150	#100	87.53	0.8			
0.075	#200	95.06	0.7			

Total Dry Wt. 13145 g
Split Wt. 156.55 g

Project: Elmira HS Football Field	Project No.: J5211361	Date: 5/2/2022
Location: Elmira, New York	Specification: ASTM C136	
Source: Hawbaker - Erwin Quarry	Sample #4	
15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/		Remarks: Tested By: K. Lemcke Date: 4/29/2022

GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		11.1	19.4	69.5	Silt (>0.002mm)	Clay (<0.002mm)
0.0	97.7	% Sand		1.1	1.3	

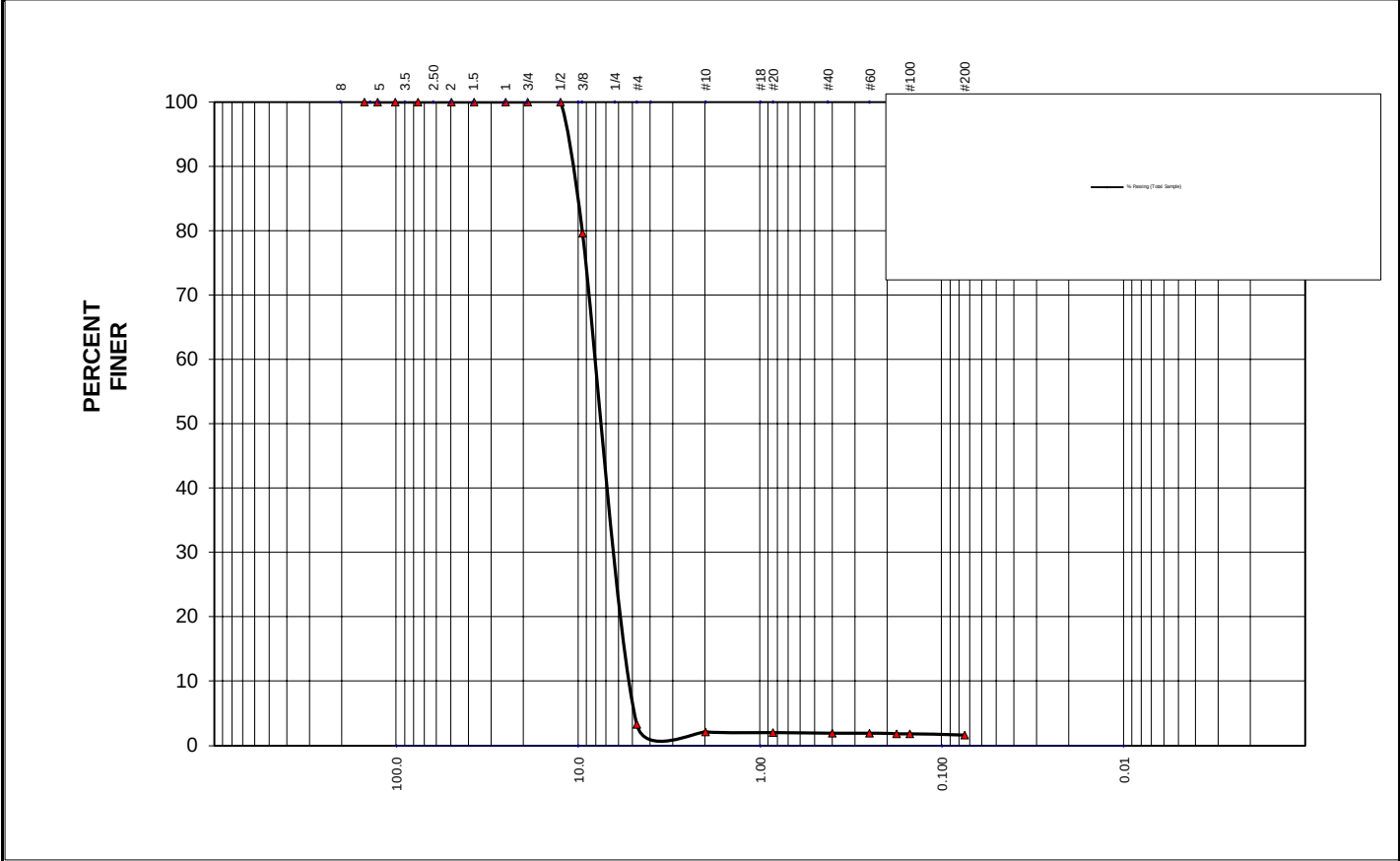
Classification: **#3 Stone**

Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
63.0	2.5"	0.00	100			
50.0	2"	1535.00	96			
37.5	1.5"	20080.00	47			
25.0	1"	34805.00	8			
19.0	3/4"	36760.00	3			
12.5	1/2"	36890.00	2			
9.5	3/8"	36910.00	2			
4.75	#4	36945.00	2			
2.00	#10	28.47	2			
0.850	#20	78.29	2			
0.400	#40	129.23	2			
0.250	#60	169.39	2			
0.177	#80	200.05	1.5			
0.150	#100	212.12	1.4			
0.075	#200	256.76	1.3			

Total Dry Wt. 37820 g
Split Wt. 561.49 g

Project: Elmira High School Football Field	Project No.: J5211361	Date: 6/27/2023
Location: Elmira, New York	Specification: ASTM C136	
Source: Pleasant Gap Quarry		
15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/		Remarks: Tested By: R. Castronovo Date: 6/26/2023

GRAIN SIZE DISTRIBUTION TEST REPORT ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		72.8	5.8	21.4	Silt (>0.002mm)	Clay (<0.002mm)
0.0	96.7	% Sand		1.6	1.7	

Classification:	#1 Stone
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Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Specification Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	0.00	100			
19.0	3/4"	0.00	100			
12.5	1/2"	0.00	100			
9.5	3/8"	1965.00	80			
4.75	#4	9320.00	3.3			
2.00	#10	106.70	2.1			
0.850	#20	115.18	2.0			
0.400	#40	120.97	1.9			
0.250	#60	126.12	1.9			
0.177	#80	128.07	1.9			
0.150	#100	133.25	1.8			
0.075	#200	146.58	1.7			
Total Dry Wt.		9635	g			
Split Wt.		298.2	g			

Project: Elmira High School Football Field	Project No.: J5211361	Date: 5/31/2023
Location: Elmira, New York	Specification: ASTM C136	
Source: Corning Pit - Edger Enterprises	Sample #1	

Project: Elmira High School Football Field	Project No.: J5211361	Date: 5/31/2023
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Location: Elmira, New York	Specification: ASTM C136	
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Source: Corning Pit - Edger Enterprises	Sample #1
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	15 Marway Circle, Suite 2B	Remarks:
	Rochester, NY 14624	

585-247-3471

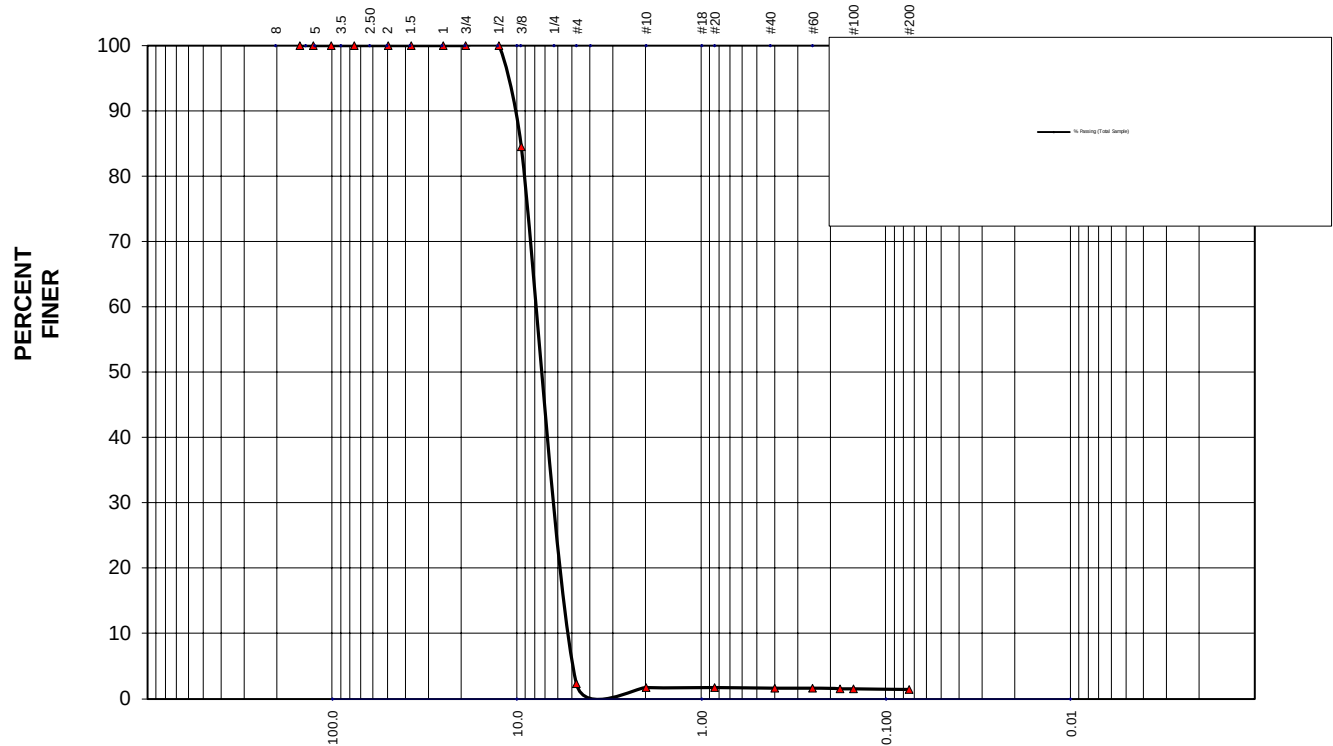
<http://www.terracon.com/>

Remarks:

Tested By:	K. Lemcke	Date:	5/30/2023
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Date: 5/30/2023

GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	97.6	63.6	5.9	30.5	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		1.0	1.4	

Classification: **#1 Stone**

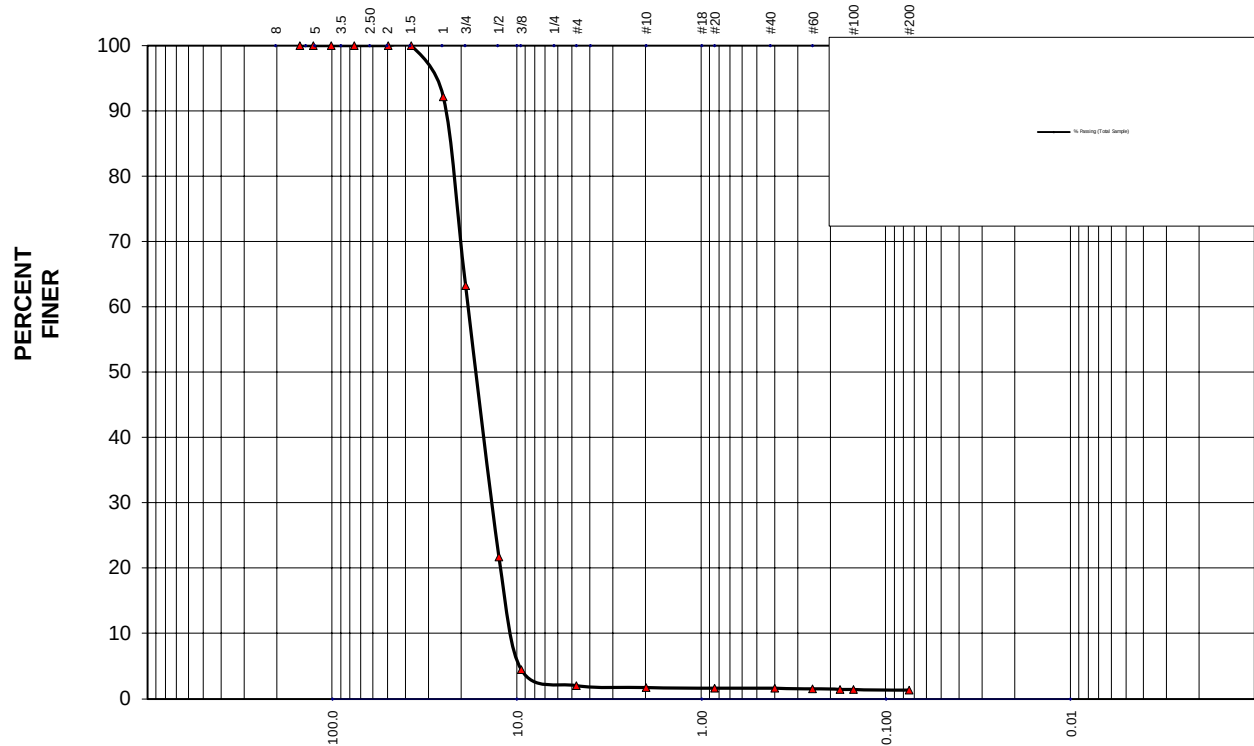
Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Specification Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	0.00	100			
19.0	3/4"	0.00	100			
12.5	1/2"	0.00	100			
9.5	3/8"	1780.00	84			
4.75	#4	11190.00	2.4			
2.00	#10	62.60	1.7			
0.850	#20	68.43	1.7			
0.400	#40	72.66	1.7			
0.250	#60	76.96	1.6			
0.177	#80	81.03	1.6			
0.150	#100	83.34	1.5			
0.075	#200	98.42	1.4			

Total Dry Wt. 11460 g
Split Wt. 243.01 g

Project: Elmira High School Football Field	Project No.: J5211361	Date: 5/31/2023
Location: Elmira, New York	Specification: ASTM C136	
Source: Corning Pit - Edger Enterprises	Sample #2	

 15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/	Remarks:	
	Tested By: K. Lemcke	Date: 5/30/2023

GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	98.0	43.1	13.3	43.7	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		0.7	1.3	

Classification: **#1/#2 Mix**

Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Specification Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	1465.00	92			
19.0	3/4"	6905.00	63			
12.5	1/2"	14695.00	22			
9.5	3/8"	17940.00	4			
4.75	#4	18400.00	2			
2.00	#10	52.92	1.7			
0.850	#20	69.20	1.6			
0.400	#40	78.92	1.6			
0.250	#60	87.28	1.5			
0.177	#80	100.53	1.5			
0.150	#100	113.08	1.4			
0.075	#200	122.85	1.3			

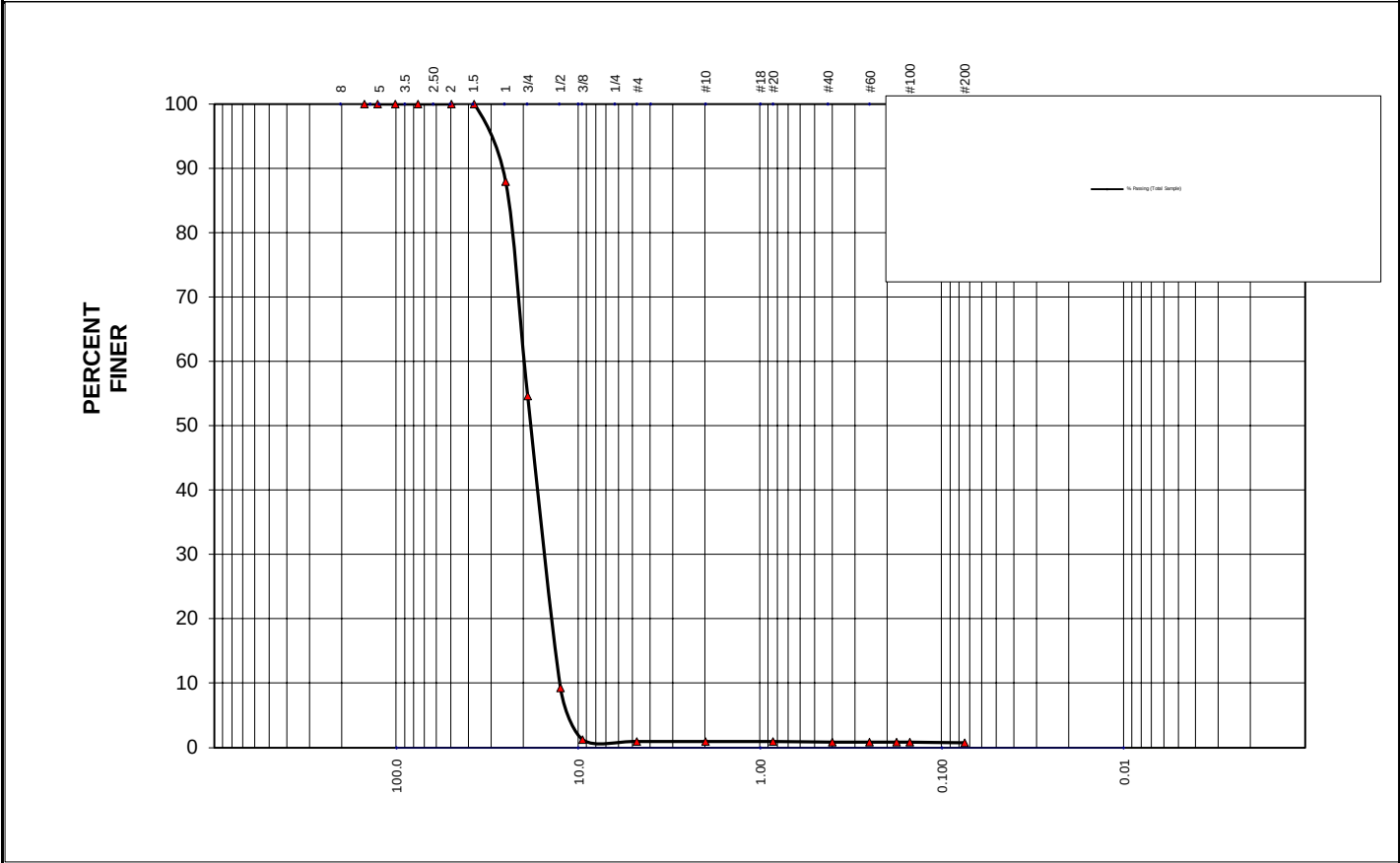
Total Dry Wt. 18780 g
Split Wt. 361.4 g

Project: Elmira High School Football Field	Project No.: J5211361	Date: 5/31/2023
Location: Elmira, New York	Specification: ASTM C136	
Source: Corning Pit - Edger Enterprises	Sample #1	

15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/		Remarks:
		Tested By: K. Lemcke Date: 5/26/2023

GRAIN SIZE DISTRIBUTION TEST REPORT

ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		15.0	11.7	73.3	Silt (>0.002mm)	Clay (<0.002mm)
0.0	99.0	% Sand		0.2	0.7	

Classification:	#1/#2 Mix
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Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	2145.00	88			
19.0	3/4"	8050.00	55			
12.5	1/2"	16115.00	9			
9.5	3/8"	17545.00	1.2			
4.75	#4	17590.00	1.0			
2.00	#10	4.85	0.9			
0.850	#20	8.64	0.9			
0.400	#40	12.24	0.9			
0.250	#60	15.78	0.9			
0.177	#80	19.32	0.8			
0.150	#100	20.83	0.8			
0.075	#200	32.35	0.7			
Total Dry Wt.		17760	g			
Split Wt.		147.64	g			

Project: Elmira High School Football Field	Project No.: J5211361	Date: 5/31/2023
Location: Elmira, New York	Specification: ASTM C136	
Source: Corning Pit - Edger Enterprises	Sample #2	

Location: Elmira, New York	Specification: ASTM C136	
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15 Marway Circle, Suite 2B	Remarks:
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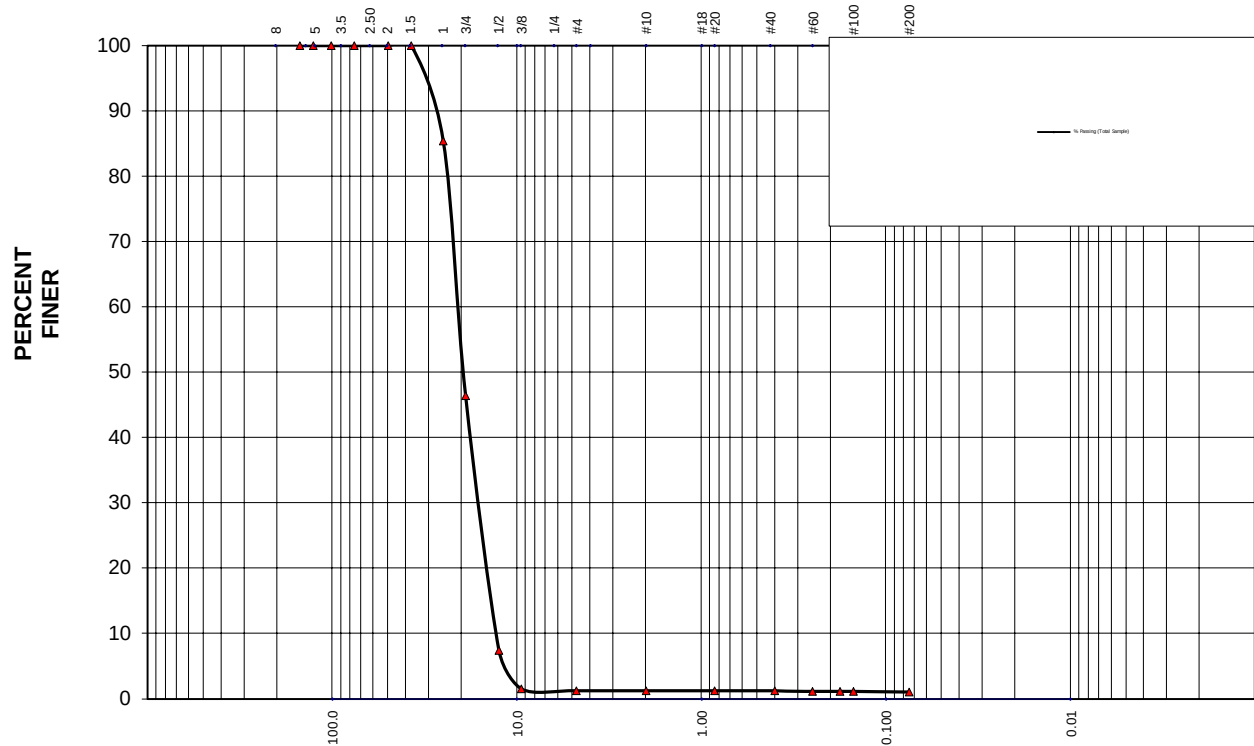
<http://www.terracon.com/>

Tested By:	K. Lemcke	Date:	5/26/2023
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Tested By:	K. Lemcke	Date:	5/26/2023
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Tested By:	K. Lemcke	Date:	5/26/2023
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GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	98.7	9.4	9.6	81.0	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		0.2	1.0	

Classification: **#1/#2 Mix**

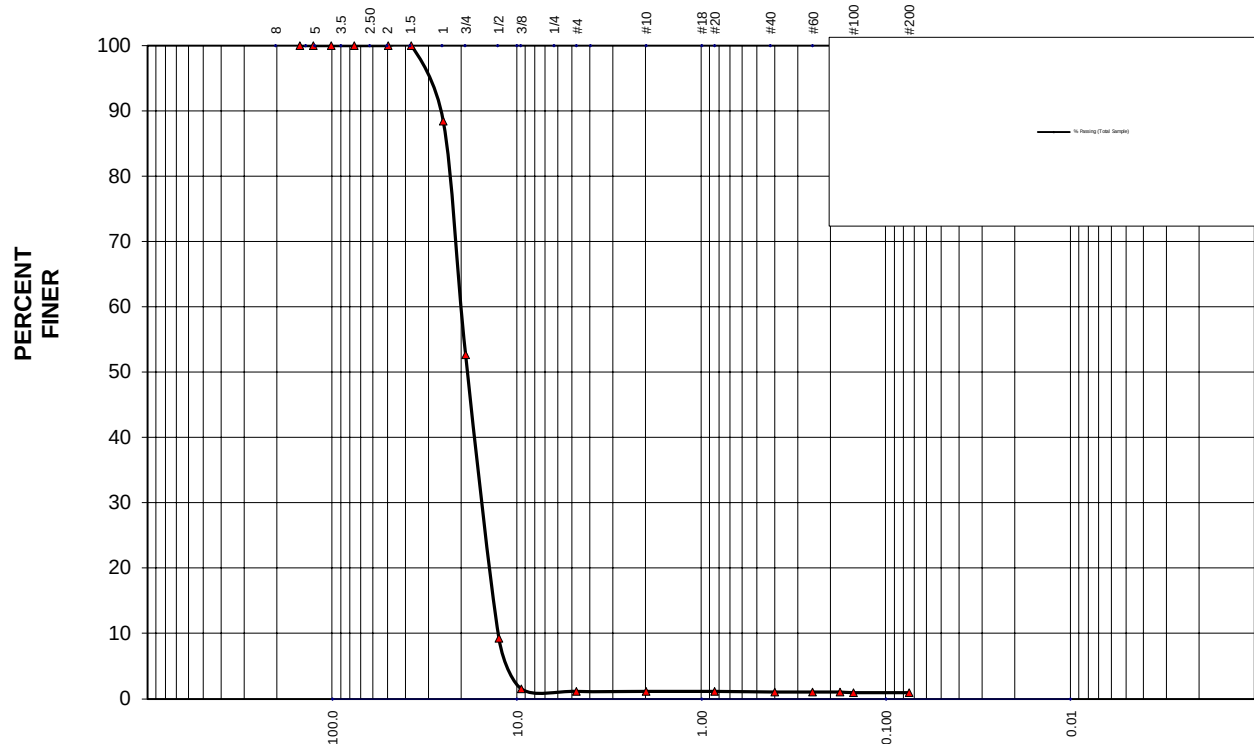
Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Specification Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	2590.00	85			
19.0	3/4"	9495.00	46			
12.5	1/2"	16410.00	7			
9.5	3/8"	17460.00	1.5			
4.75	#4	17505.00	1.3			
2.00	#10	3.42	1.2			
0.850	#20	6.89	1.2			
0.400	#40	11.18	1.2			
0.250	#60	15.93	1.2			
0.177	#80	19.06	1.1			
0.150	#100	23.10	1.1			
0.075	#200	36.26	1.0			

Total Dry Wt. 17730 g
Split Wt. 191.15 g

Project: Elmira High School Football Field	Project No.: J5211361	Date: 5/31/2023
Location: Elmira, New York	Specification: ASTM C136	
Source: Corning Pit - Edger Enterprises	Sample #3	

 15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/	Remarks:	
	Tested By: K. Lemcke	Date: 5/26/2023

GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	98.9	13.7	9.6	76.7	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		0.2	0.9	

Classification: **#1/#2 Mix**

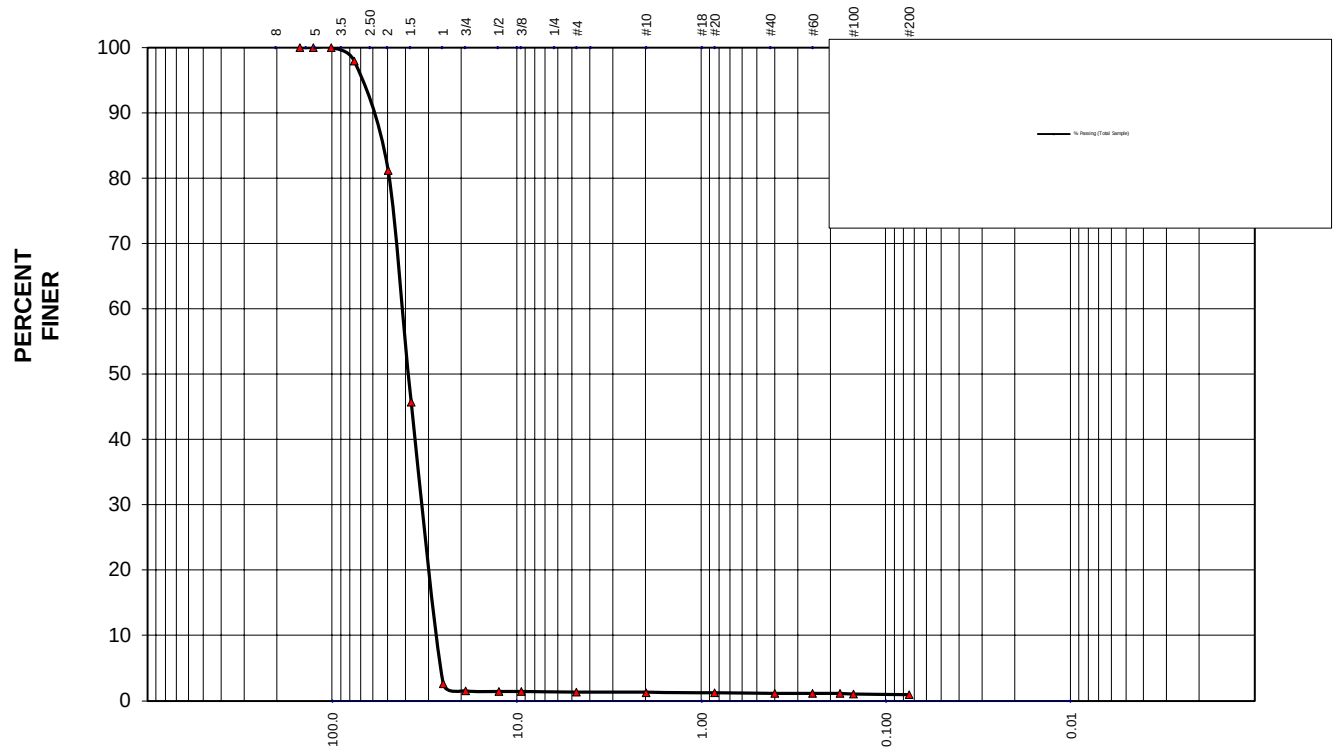
Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	2015.00	88			
19.0	3/4"	8225.00	53			
12.5	1/2"	15780.00	9			
9.5	3/8"	17135.00	1.5			
4.75	#4	17195.00	1.1			
2.00	#10	4.39	1.1			
0.850	#20	7.47	1.1			
0.400	#40	10.92	1.1			
0.250	#60	14.67	1.1			
0.177	#80	20.44	1.0			
0.150	#100	25.84	1.0			
0.075	#200	32.08	0.9			

Total Dry Wt. 17395 g
Split Wt. 175.3 g

Project: Elmira High School Football Field	Project No.: J5211361	Date: 5/31/2023
Location: Elmira, New York	Specification: ASTM C136	
Source: Corning pit - Edger Enterprises	Sample #4	

15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/	Remarks: Tested By: K. Lemcke Date: 5/26/2023
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GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	98.6	17.5	15.6	66.9	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		0.4	0.9	

Classification: **#3/#4 Mix**

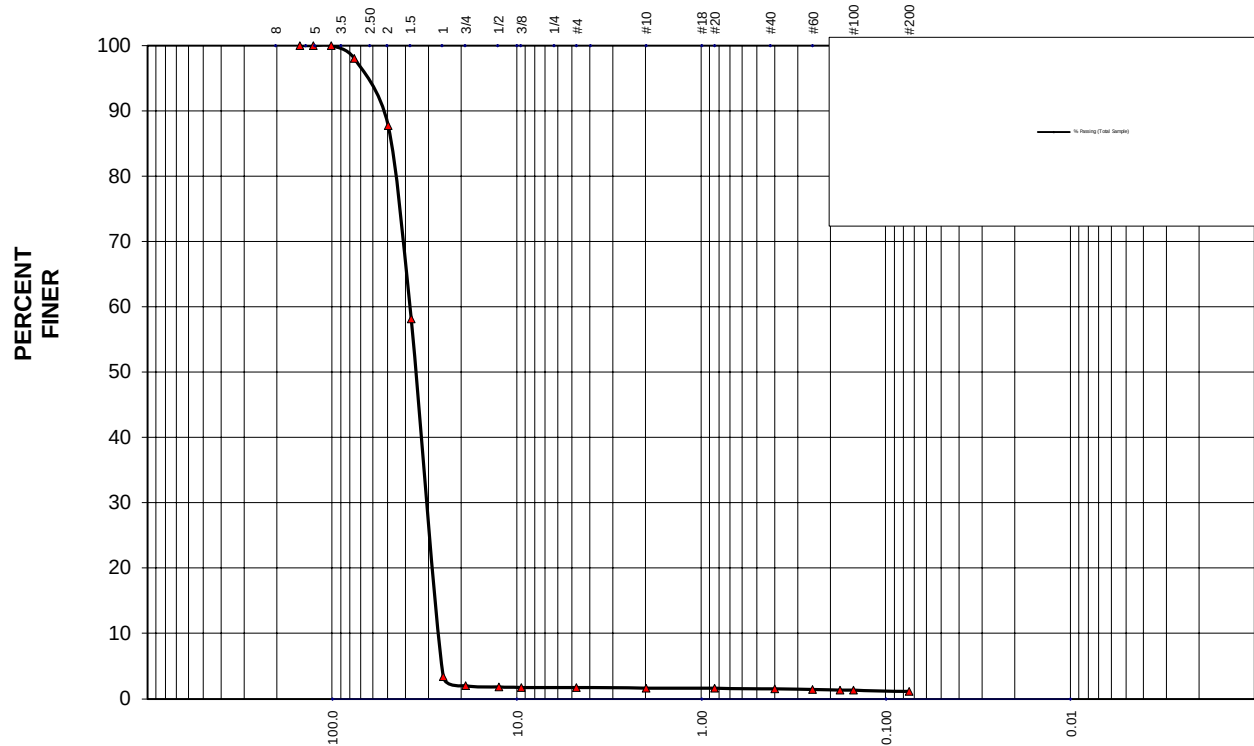
Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	800.00	98			
50.0	2"	7225.00	81			
37.5	1.5"	20790.00	46			
25.0	1"	37315.00	3			
19.0	3/4"	37710.00	2			
12.5	1/2"	37750.00	1.4			
9.5	3/8"	37765.00	1.4			
4.75	#4	37785.00	1.4			
2.00	#10	27.49	1.3			
0.850	#20	51.86	1.2			
0.400	#40	71.73	1.2			
0.250	#60	90.26	1.1			
0.177	#80	99.43	1.1			
0.150	#100	115.91	1.1			
0.075	#200	156.65	0.9			

Total Dry Wt. 38305 g
Split Wt. 514.39 g

Project: Elmira High School Football Field	Project No.: J5211361	Date: 5/26/2023
Location: Elmira, New York	Specification: ASTM C136	
Source: Corning Pit - Edger Enterprises	Sample #1	

 15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/	Remarks:	
	Tested By: K. Lemcke	Date: 5/25/2023

GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	98.3	10.6	10.9	78.5	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		0.6	1.1	

Classification: **#3/#4 Mix**

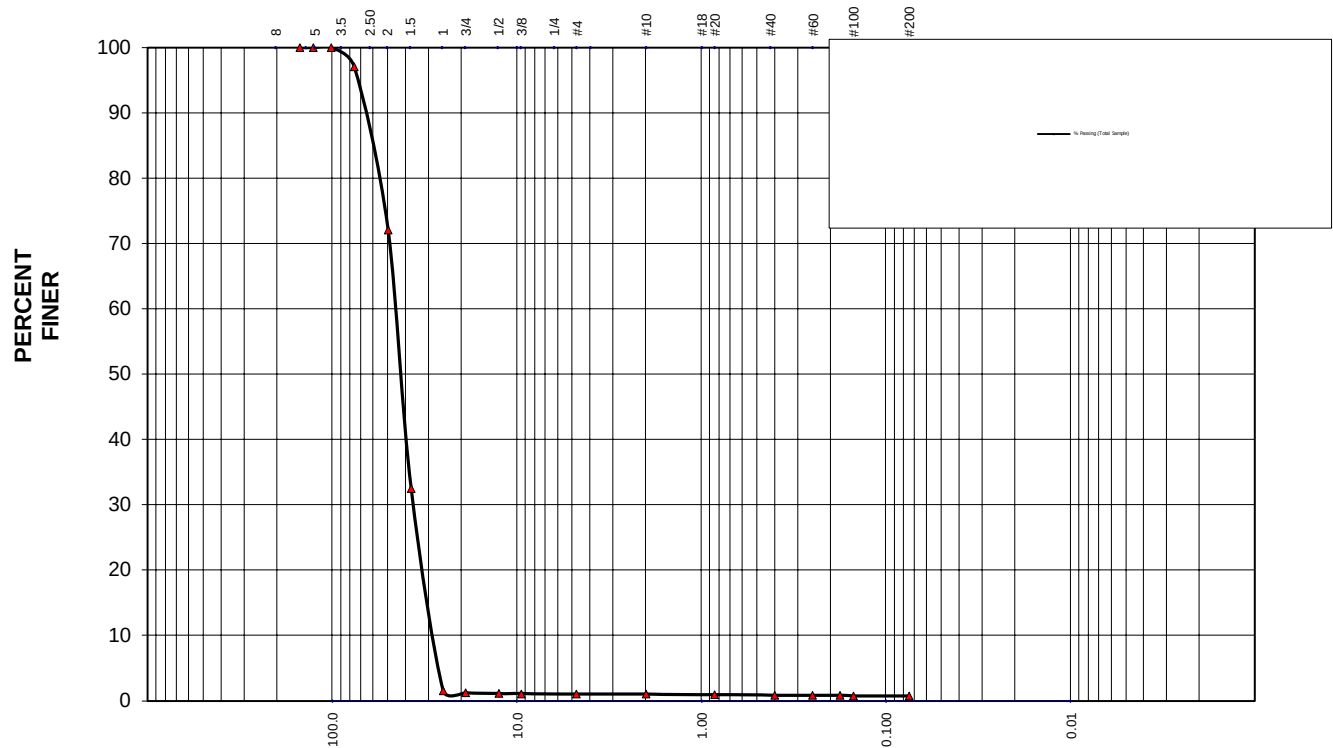
Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	730.00	98			
50.0	2"	4525.00	88			
37.5	1.5"	15485.00	58			
25.0	1"	35770.00	3			
19.0	3/4"	36300.00	2			
12.5	1/2"	36375.00	1.8			
9.5	3/8"	36380.00	1.8			
4.75	#4	36395.00	1.7			
2.00	#10	19.64	1.7			
0.850	#20	39.93	1.6			
0.400	#40	61.28	1.5			
0.250	#60	88.57	1.4			
0.177	#80	118.45	1.3			
0.150	#100	132.13	1.3			
0.075	#200	185.74	1.1			

Total Dry Wt. 37035 g
Split Wt. 529.74 g

Project: Elmira High School Football Field	Project No.: J5211361	Date: 5/26/2023
Location: Elmira, New York	Specification: ASTM C136	
Source: Corning Pit - Edger Enterprises	Sample #2	

15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/		Remarks:
		Tested By: K. Lemcke Date: 5/25/2023

GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0.0	98.9	17.9	16.8	65.3	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand		0.4	0.7	

Classification: **#3/#4 Mix**

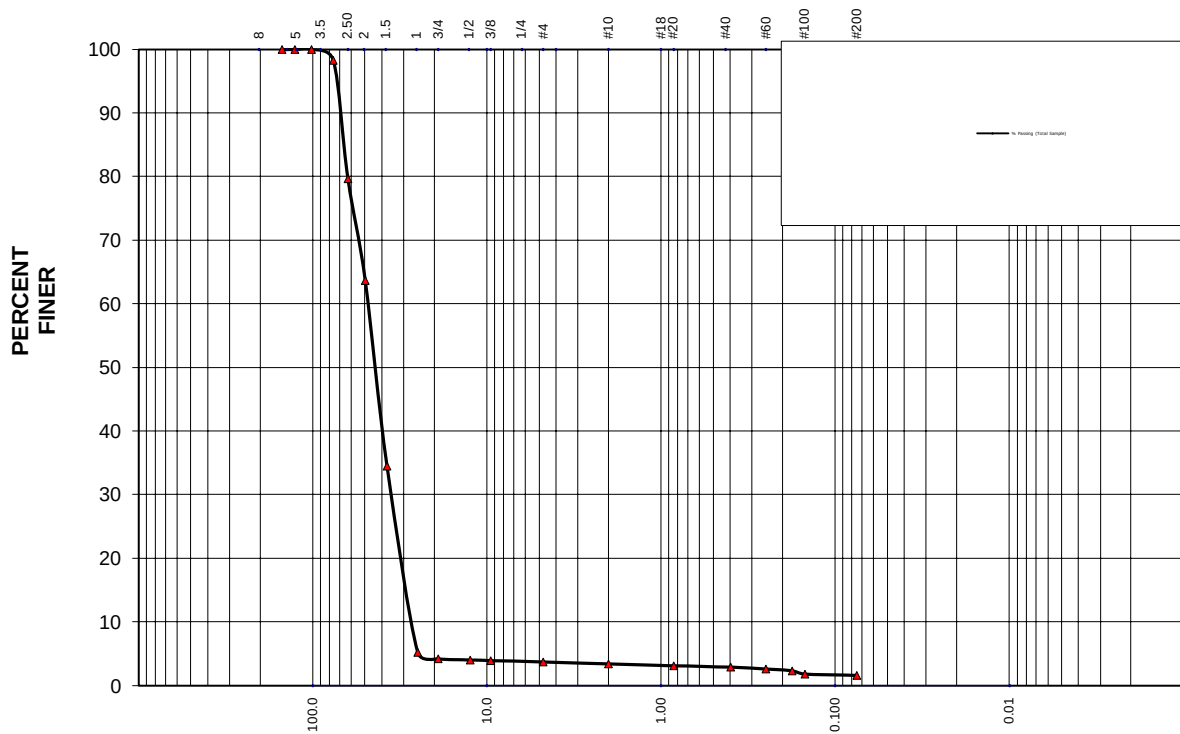
Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	1145.00	97			
50.0	2"	10770.00	72			
37.5	1.5"	26045.00	32			
25.0	1"	37955.00	2			
19.0	3/4"	38085.00	1			
12.5	1/2"	38130.00	1.1			
9.5	3/8"	38135.00	1.1			
4.75	#4	38145.00	1.1			
2.00	#10	25.71	1.0			
0.850	#20	49.75	0.9			
0.400	#40	69.09	0.9			
0.250	#60	87.99	0.8			
0.177	#80	93.02	0.8			
0.150	#100	108.65	0.8			
0.075	#200	143.41	0.7			

Total Dry Wt. 38555 g
Split Wt. 418.58 g

Project: Elmira High School Football Field	Project No.: J5211361	Date: 5/26/2023
Location: Elmira, New York	Specification: ASTM C136	
Source: Corning Pit - Edger Enterprises	Sample #3	

 15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/	Remarks:	
	Tested By: K. Lemcke	Date: 5/25/2023

GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



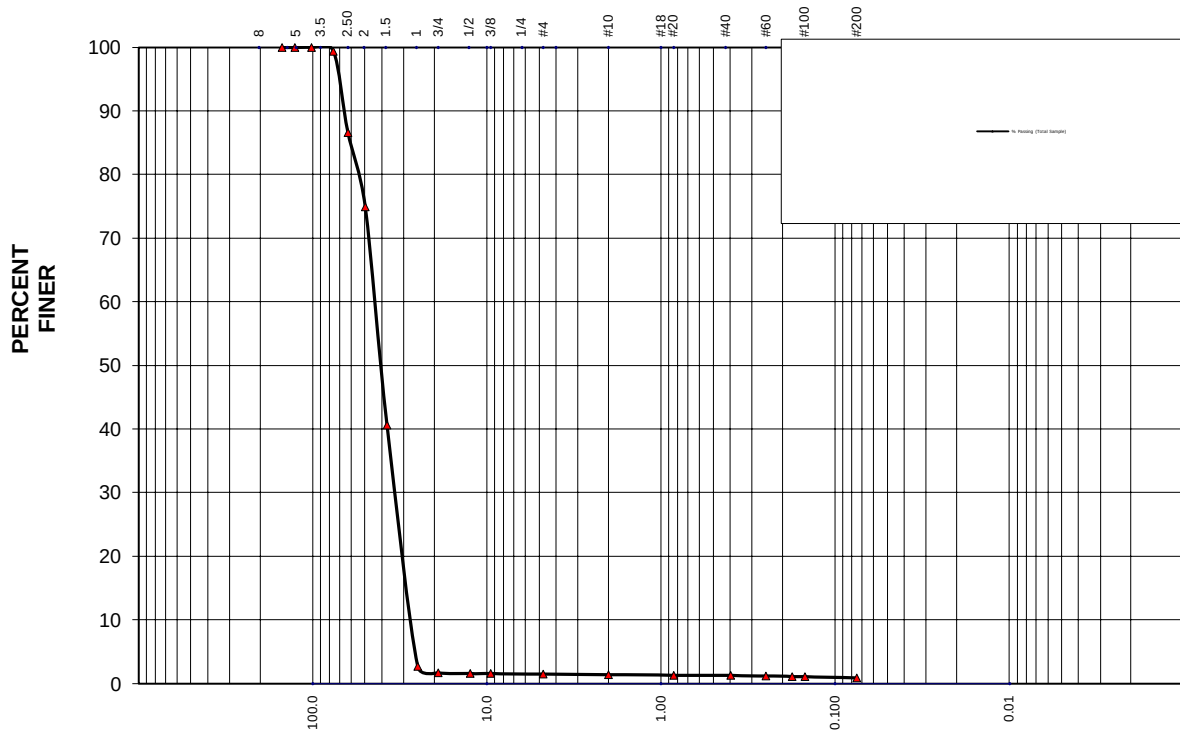
% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		15.1	11.5	73.4	Silt (>0.002mm)	Clay (<0.002mm)
0.0	96.2	% Sand		2.1	1.6	

Classification: **#3/#4 Mix**

Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Specification Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	685.00	98			
63.0	2.5"	8145.00	80			
50.0	2"	14585.00	64			
37.5	1.5"	26255.00	35			
25.0	1"	37990.00	5			
19.0	3/4"	38410.00	4			
12.5	1/2"	38470.00	4			
9.5	3/8"	38505.00	4			
4.75	#4	38595.00	4			
2.00	#10	33.42	3			
0.850	#20	58.81	3			
0.400	#40	89.24	3			
0.250	#60	117.06	3			
0.177	#80	142.92	2			
0.150	#100	195.48	1.9			
0.075	#200	221.30	1.6			
Total Dry Wt.		40105	g			
Split Wt.		388.02	g			

Project: Elmira High School Football Field	Project No.: J5211361	Date: 6/15/2023
Location: Elmira, New York	Specification: ASTM C136	
Source: Corning Pit - Edger Enterprises	Sample #1	
15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/		Remarks: Tested By: K. Lemcke Date: 6/15/2023

GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



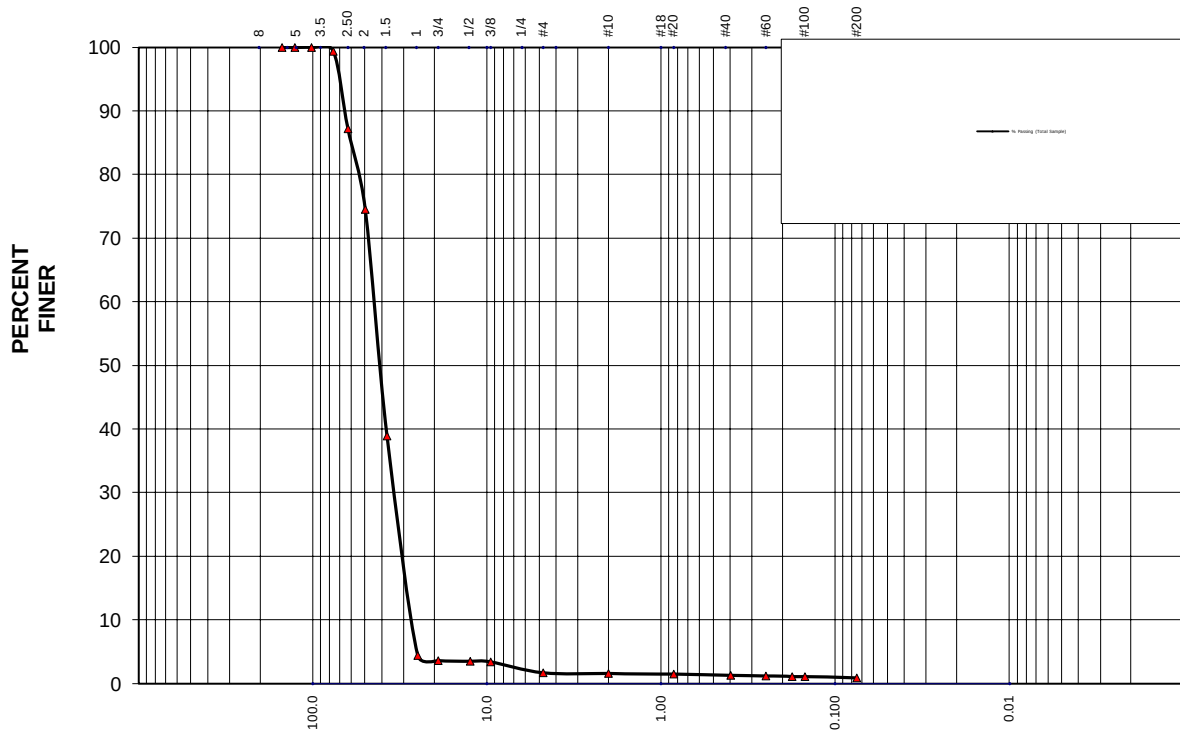
% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		15.3	13.9	70.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	98.5	% Sand		0.6	1.0	

Classification: **#3/#4 Mix**

Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Specification Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	205.00	99			
63.0	2.5"	4775.00	87			
50.0	2"	8955.00	75			
37.5	1.5"	21225.00	41			
25.0	1"	34770.00	3			
19.0	3/4"	35145.00	2			
12.5	1/2"	35180.00	2			
9.5	3/8"	35180.00	2			
4.75	#4	35200.00	2			
2.00	#10	23.88	1.4			
0.850	#20	45.60	1.4			
0.400	#40	65.13	1.3			
0.250	#60	86.05	1.2			
0.177	#80	95.86	1.2			
0.150	#100	114.83	1.1			
0.075	#200	155.92	1.0			
Total Dry Wt.		35750	g			
Split Wt.		408.62	g			

Project: Elmira High School Football Field	Project No.: J5211361	Date: 6/15/2023
Location: Elmira, New York	Specification: ASTM C136	
Source: Corning Pit - Edger Enterprises	Sample #2	
15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/		Remarks: Tested By: K. Lemcke Date: 6/15/2023

GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		16.4	14.1	69.5	Silt (>0.002mm)	Clay (<0.002mm)
0.0	98.3	% Sand		0.8	1.0	

Classification: **#3/#4 Mix**

Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Wt. Retained	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Maximum
150.0	6"	0.00	100			
127.0	5"	0.00	100			
101.6	4"	0.00	100			
76.2	3"	235.00	99			
63.0	2.5"	5025.00	87			
50.0	2"	10025.00	75			
37.5	1.5"	24025.00	39			
25.0	1"	37605.00	4			
19.0	3/4"	37915.00	4			
12.5	1/2"	37950.00	4			
9.5	3/8"	37990.00	3			
4.75	#4	38670.00	2			
2.00	#10	30.98	2			
0.850	#20	57.61	1.5			
0.400	#40	89.94	1.4			
0.250	#60	120.74	1.2			
0.177	#80	137.84	1.2			
0.150	#100	151.21	1.1			
0.075	#200	188.74	1.0			

Total Dry Wt. 39350 g
Split Wt. 429.37 g

Project: Elmira High School Football Field	Project No.: J5211361	Date: 6/15/2023
Location: Elmira, New York	Specification: ASTM C136	
Source: Corning Pit - Edger Enterprises	Sample #3	
15 Marway Circle, Suite 2B Rochester, NY 14624 585-247-3471 http://www.terracon.com/		Remarks: Tested By: K. Lemcke Date: 6/15/2023

Client: Trec Environmental, Inc
Project: Elmira

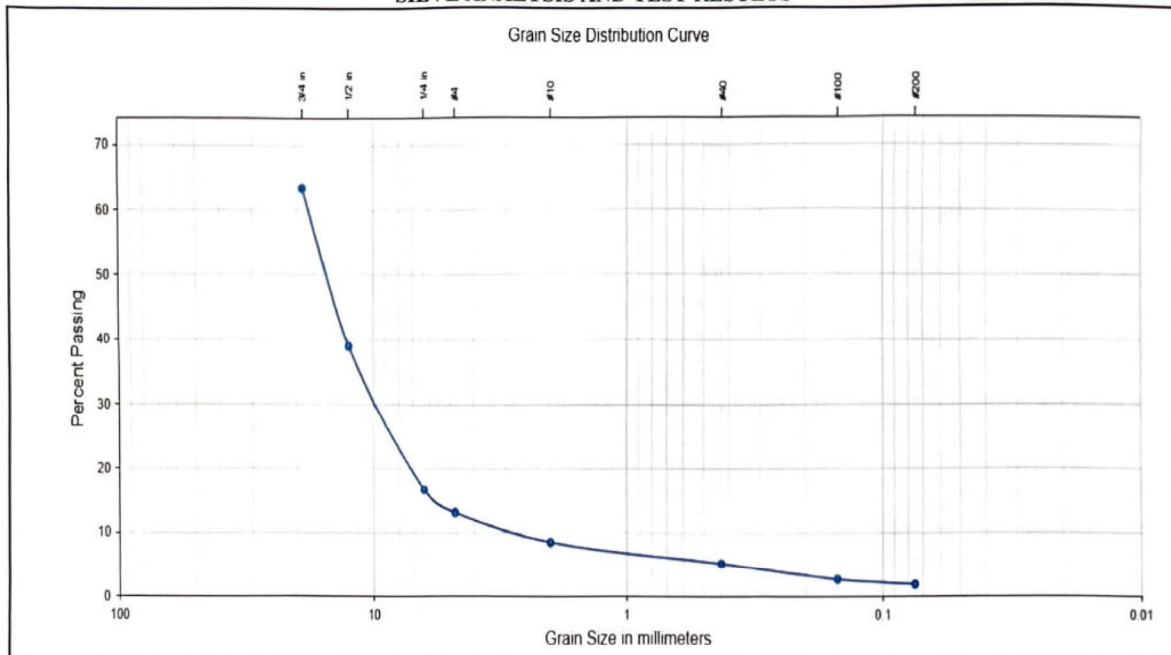
Report Date: 03/30/2026 **Sample Date:** 03/30/2026
Project #: R186

SAMPLE DATA

Test Procedure: ASTM D6913 (Sieve)

Sample No / Location: One Bucket

Sample Description / Classification: Well-graded gravel (GW)

SIEVE ANALYSIS AND TEST RESULTS


Sieve Sizes	Wt. Retained (g)	% Retained	% Passing	Spec Limits
3/4 in (19mm)	591.0	36.8	63.2	
1/2 in (12.5mm)	981.5	61.1	38.9	
1/4 in (6.3mm)	1340.5	83.4	16.6	
#4 (4.75mm)	1397.5	87.0	13.0	
#10 (2mm)	1472.0	91.6	8.4	
#40 (0.425mm)	1525.5	94.9	5.1	
#100 (0.15mm)	1565.0	97.4	2.6	
#200 (0.075mm)	1578.0	98.2	1.8	
PAN	1602.0	99.7	0.3	

Material		
% Gravel	% Sand	% Fines
87.0	11.2	1.8
Atterberg Limits		
PL =	LL =	PI =
Coefficients		
D₆₀ = 18.14	D₁₀ = 2.96	Cc = 1.87
D₃₀ = 10.03		Cu = 6.14
Soil Classification		
USCS		
USCS (ASTM D2487) : GW		
Well-graded gravel		
AASHTO		
A-1-a		

Report Copied to: Keith Hambley

Notes: The results above apply only to the specific samples noted using the aforementioned test method(s) and do not represent any other sample. Reports may not be reproduced except in full without permission.

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