Brewer's Pit Proctor and Gradation Reports Summary Sheet

Date:	Proctor Report No.	Gradation Report No.
11/21/2022	J5211361.0181B	J5211361.0181A
11/21/2022	J5211361.0181D	J5211361.0181C
12/7/2022	J5211361.0181E	J5211361.0181F
12/13/2022	J5211361.0181J	J5211361.0181G
12/13/2022	J5211361.0181I	J5211361.0181H
12/13/2022	J5211361.0181K	J5211361.0181L
12/30/2022	J5211361.0181N	J5211361.0181M
1/5/2023	J5211361.0183B	J5211361.0183A
1/5/2023	J5211361.0184B	J5211361.0184A
1/10/2023	J5211361.0184D	J5211361.0184C
1/10/2023	J5211361.0184F	J5211361.0184E
1/12/2023	J5211361.0184H	J5211361.0184G
1/24/2023	J5211361.0184J	J5211361.0184I
1/24/2023	J5211361.0184L	J5211361.0184K
2/9/2023	J5211361.0184N	J5211361.0184M
3/9/2023	J5211361.0203B	J5211361.0203A
3/9/2023	J5211361.0203D	J5211361.0203C
3/9/2023	J5211361.0203F	J5211361.0203E
3/14/2023	J5211361.0203G	J5211361.0203H
3/14/2023	J5211361.0203J	J5211361.0203I
3/14/2023	J5211361.0203L	J5211361.0203K
3/14/2023	J5211361.0203N	J5211361.0203M
3/14/2023	J5211361.0203P	J5211361.0203O
3/17/2023	J5211361.0203R	J5211361.0203Q
3/17/2023	J5211361.0203T	J5211361.0203S

Hawbaker Import/Stone Mix Proctor and Gradation Reports Summary Sheet

Date:	Proctor Report No.	Gradation Report No.
5/13/2022	J5211361.0069B	J5211361.0069A
5/24/2022	J5211361.0081B	J5211361.0081A

Hawbaker Proctor and Gradation Reports Summary Sheet

Date:	Proctor Report No.	Gradation Report No.
4/11/2022	J5211361.0047B	J5211361.0047A
4/14/2022	J5211361.0049B	J5211361.0049A
4/16/2022	J5211361.0049D	J5211361.0049C
4/19/2022	J5211361.0049F	J5211361.0049E
4/20/2022	J5211361.0049H	J5211361.0049G
4/20/2022	J5211361.0049J	J5211361.0049I
4/26/2022	J5211361.0049L	J5211361.0049K
4/26/2022	J5211361.0049N	J5211361.0049M
4/26/2022	J5211361.0049R	J5211361.0049Q
4/26/2022	J5211361.0049T	J5211361.0049S
4/26/2022	J5211361.0049V	J5211361.0049U
5/2/2022	J5211361.0053B	J5211361.0053A
5/2/2022	J5211361.0053D	J5211361.0053C
5/2/2022	J5211361.0053F	J5211361.0053E
5/2/2022	J5211361.0053H	J5211361.0053G
5/6/2022	J5211361.0053J	J5211361.0053I
5/6/2022	J5211361.0053L	J5211361.0053K
5/6/2022	J5211361.0053N	J5211361.0053M
5/6/2022	J5211361.0053P	J5211361.0053O
5/6/2022	J5211361.0053R	J5211361.0053Q
5/16/2022	J5211361.0067B	J5211361.0067A
5/16/2022	J5211361.0067D	J5211361.0067C
5/23/2022	J5211361.0079A	J5211361.0079
6/30/2022	J5211361.0067L	J5211361.0067K
6/30/2022	J5211361.0067N	J5211361.0067M
7/15/2022	J5211361.0067P	J5211361.0067O
7/20/2022	J5211361.0067R	J5211361.0067Q
7/20/2022	J5211361.0067T	J5211361.0067S
7/22/2022	J5211361.0067U	J5211361.0067V
7/22/2022	J5211361.0067X	J5211361.0067W
7/27/2022	J5211361.0067Z	J5211361.0067Y
7/27/2022	J5211361.0112A	J5211361.0112
7/28/2022	J5211361.0112B	J5211361.0112C
8/11/2022	J5211361.0111B	J5211361.0111A
8/13/2022	J5211361.0111D	J5211361.0111C
8/16/2022	J5211361.0111F	J5211361.0111E
8/17/2022	J5211361.0111H	J5211361.0111G
8/20/2022	J5211361.0111J	J5211361.0111I
8/20/2022	J5211361.0111L	J5211361.0111K
8/22/2022	J5211361.0111N	J5211361.0111M

Date:	Compaction Report No.	Gradation Report No.
8/22/2022	J5211361.0111P	J5211361.0111O
8/23/2022	J5211361.0111R	J5211361.0111Q
8/26/2022	J5211361.0125B	J5211361.0125A
8/26/2022	J5211361.0125C	J5211361.0125D
8/30/2022	J5211361.0125F	J5211361.0125E
8/30/2022	J5211361.0125H	J5211361.0125G
9/1/2022	J5211361.0125J	J5211361.0125I
9/1/2022	J5211361.0125L	J5211361.0125K
9/6/2022	J5211361.0125N	J5211361.0125M
9/7/2022	J5211361.0125P	J5211361.0125O
9/8/2022	J5211361.0125R	J5211361.0125Q
9/10/2022	J5211361.0125S	J5211361.0125T
9/13/2022	J5211361.0135B	J5211361.0135A
9/15/2022	J5211361.0135D	J5211361.0135C
9/20/2022	J5211361.0135F	J5211361.0135E
9/21/2022	J5211361.0135H	J5211361.0135G
9/21/2022	J5211361.0135J	J5211361.0135I
9/26/2022	J5211361.0135L	J5211361.0135K
9/26/2022	J5211361.0135N	J5211361.0135M
9/27/2022	J5211361.0136B	J5211361.0136A
9/27/2022	J5211361.0136D	J5211361.0136C
9/28/2022	J5211361.0136F	J5211361.0136E
9/28/2022	J5211361.0137B	J5211361.0137A
10/3/2022	J5211361.0137J	J5211361.0137I
10/6/2022	J5211361.0137L	J5211361.0137K
10/10/2022	J5211361.0137P	J5211361.0137O
10/13/2022	J5211361.0138B	J5211361.0138A
10/17/2022	J5211361.0138D	J5211361.0138C
10/21/2022	J5211361.0138F	J5211361.0138E
10/21/2022	J5211361.0138H	J5211361.0138G
10/24/2022	J5211361.0138J	J5211361.0138I
10/24/2022	J5211361.0138L	J5211361.0138K
10/25/2022	J5211361.0138N	J5211361.0138M
10/27/2022	J5211361.0138O	J5211361.0138P
11/1/2022	J5211361.0138R	J5211361.0138Q
11/2/2022	J5211361.0138T	J5211361.0138S
11/11/2022	J5211361.0149H	J5211361.0149G
11/28/2022	J5211361.0149J	J5211361.0149I
12/13/2022	J5211361.0149P	J5211361.0149O
12/30/2022	J5211361.0149R	J5211361.0149Q

Date:	Compaction Report No.	Gradation Report No.
1/10/2023	J5211361.0149T	J5211361.0149S
2/9/2023	J5211361.0149V	J5211361.0149U
2/9/2023	J5211361.0149X	J5211361.0149W
2/27/2023	J5211361.0149Z	J5211361.0149Y
2/28/2023	J5211361.0162B	J5211361.0162A
3/9/2023	J5211361.0162D	J5211361.0162C
3/9/2023	J5211361.0162F	J5211361.0162E
3/21/2023	J5211361.0165B	J5211361.0165A
3/21/2023	J5211361.0165D	J5211361.0165C
3/21/2023	J5211361.0165F	J5211361.0165E
3/21/2023	J5211361.0165H	J5211361.0165G
3/24/2023	J5211361.0173B	J5211361.0173A
3/24/2023	J5211361.0173D	J5211361.0173C
3/24/2023	J5211361.0173F	J5211361.0173E
3/24/2023	J5211361.0173H	J5211361.0173G
3/24/2023	J5211361.0173J	J5211361.0173I
3/24/2023	J5211361.0173L	J5211361.0173K
3/25/2023	J5211361.0177F	J5211361.0177E
3/25/2023	J5211361.0177H	J5211361.0177G
3/25/2023	J5211361.0177J	J5211361.0177I
3/25/2023	J5211361.0177L	J5211361.0177K
3/25/2023	J5211361.0177N	J5211361.0177M
3/25/2023	J5211361.0177P	J5211361.0177O
3/25/2023	J5211361.0177R	J5211361.0177Q
3/25/2023	J5211361.0177T	J5211361.0177S
3/25/2023	J5211361.0177V	J5211361.0177U
3/25/2023	J5211361.0177X	J5211361.0177W
3/25/2023	J5211361.0177Z	J5211361.0177Y
3/25/2023	J5211361.0205A	J5211361.0205

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0181B
Service Date: 11/08/22
Report Date: 11/21/22

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/21/22
Sampled By: Kyle Lemcke
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample #14

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

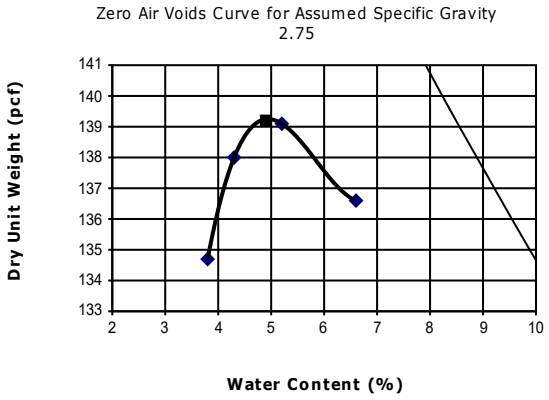
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 26.2
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **139.2**
Optimum Water Content (%): **4.9**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **132.0**
Optimum Water Content (%): **6.5**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0181B
Service Date: 11/08/22
Report Date: 11/21/22
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

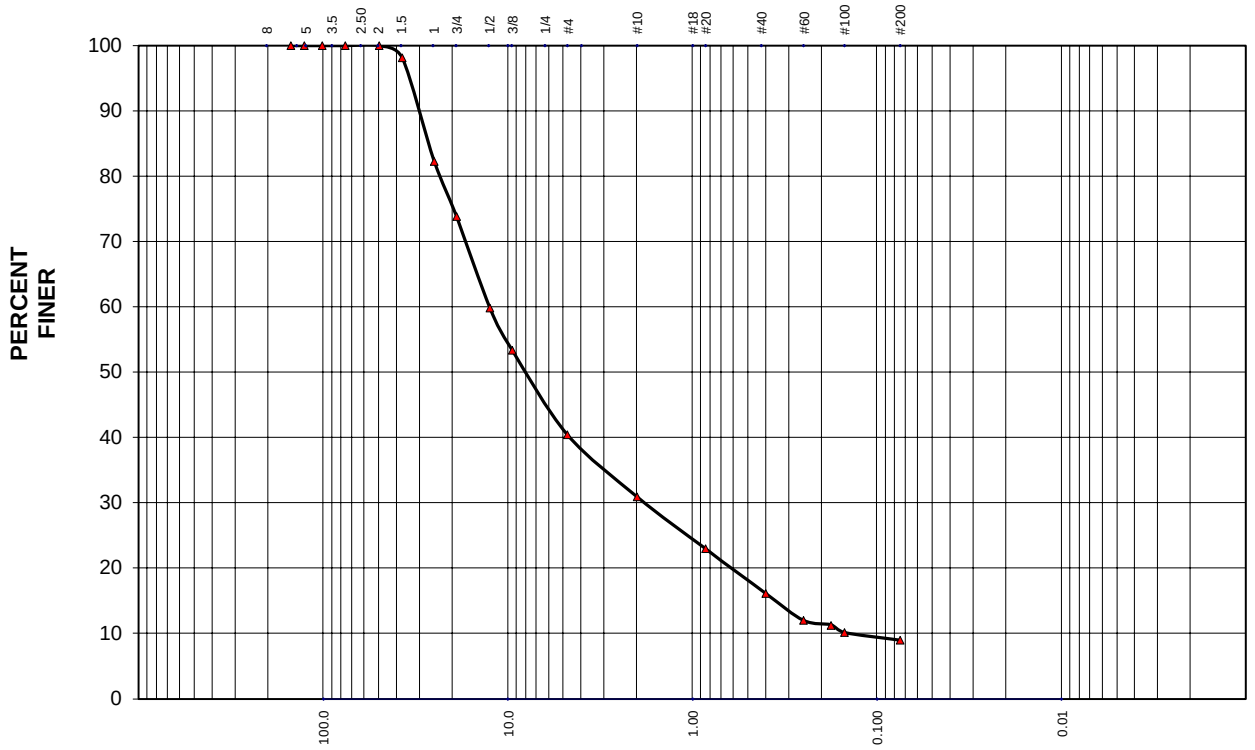
(1) Geosyntec Consultants, Paul Botek

(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	
		30.2	25.4	44.3	Silt (>0.002mm)	Clay (<0.002mm)
0.0	59.5		% Sand	31.4	9.0	

Classification: Item 4 - Sample 14

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"	375.00	98			
25.0	1"	3545.00	82			
19.0	3/4"	5235.00	74			
12.5	1/2"	8020.00	60			
9.5	3/8"	9320.00	53			
4.75	#4	11895.00	40			
2.00	#10	112.71	31			
0.850	#20	207.41	23			
0.400	#40	288.37	16			
0.250	#60	337.21	12			
0.177	#80	345.82	11			
0.150	#100	358.92	10			
0.075	#200	372.65	9			

Total Dry Wt. 19975 g
Split Wt. 479.53 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**11/21/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit				

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 11/15/2022

Distribution Page

Report Number: J5211361.0181A
Service Date: 11/08/22
Report Date: 11/21/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0181D
Service Date: 11/08/22
Report Date: 11/21/22

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/08/22
Sampled By: Pete Valenti
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample #15

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

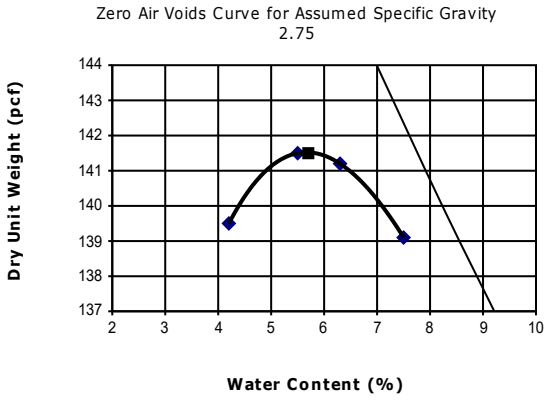
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 26.5
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **141.5**
Optimum Water Content (%): **5.7**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.5**
Optimum Water Content (%): **7.5**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0181D
Service Date: 11/08/22
Report Date: 11/21/22
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

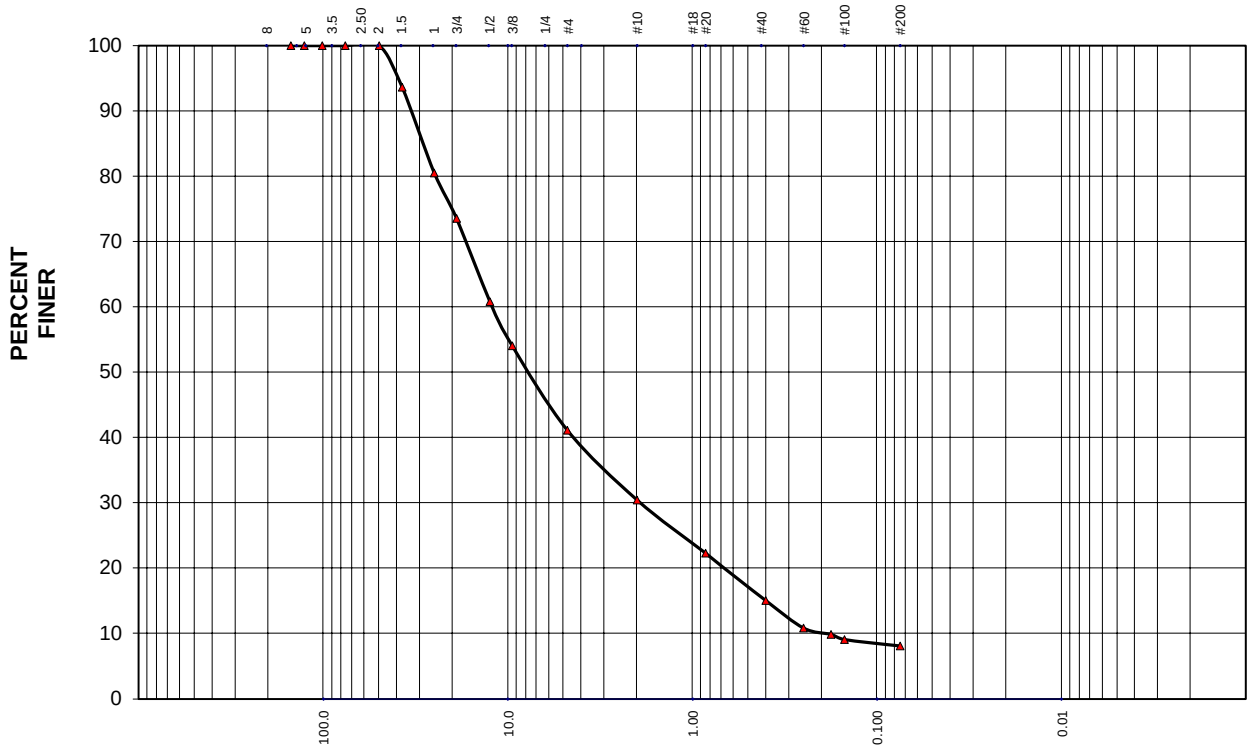
(1) Geosyntec Consultants, Paul Botek

(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	
		32.3	24.6	43.0	Silt (>0.002mm)	Clay (<0.002mm)
0.0	58.9		% Sand	33.0	8.0	

Classification: Item 4 - Sample 15

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"	1095.00	94			
25.0	1"	3350.00	81			
19.0	3/4"	4550.00	74			
12.5	1/2"	6740.00	61			
9.5	3/8"	7900.00	54			
4.75	#4	10130.00	41			
2.00	#10	104.45	30			
0.850	#20	184.06	22			
0.400	#40	254.93	15			
0.250	#60	295.83	11			
0.177	#80	305.84	10			
0.150	#100	312.93	9			
0.075	#200	323.19	8			

Total Dry Wt. 17190 g
Split Wt. 401.95 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**11/21/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit				

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 11/16/2022

Distribution Page

Report Number: J5211361.0181C
Service Date: 11/08/22
Report Date: 11/21/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0181E
Service Date: 11/08/22
Report Date: 12/07/22

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/08/22
Sampled By: Pete Valenti
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample #2

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

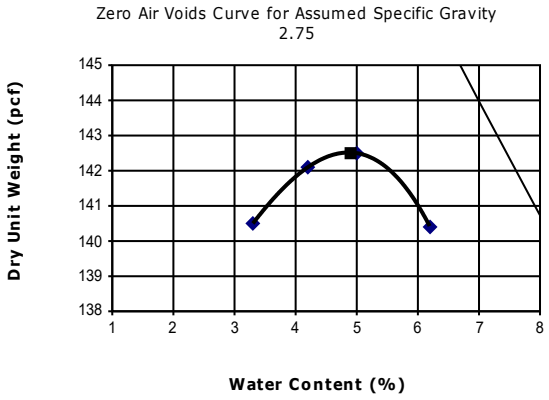
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 29.3
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **142.5**
Optimum Water Content (%): **4.9**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.8**
Optimum Water Content (%): **6.7**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0181E
Service Date: 11/08/22
Report Date: 12/07/22
Task:

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

Distribution List

(1) Geosyntec Consultants, Miranda Stelmach

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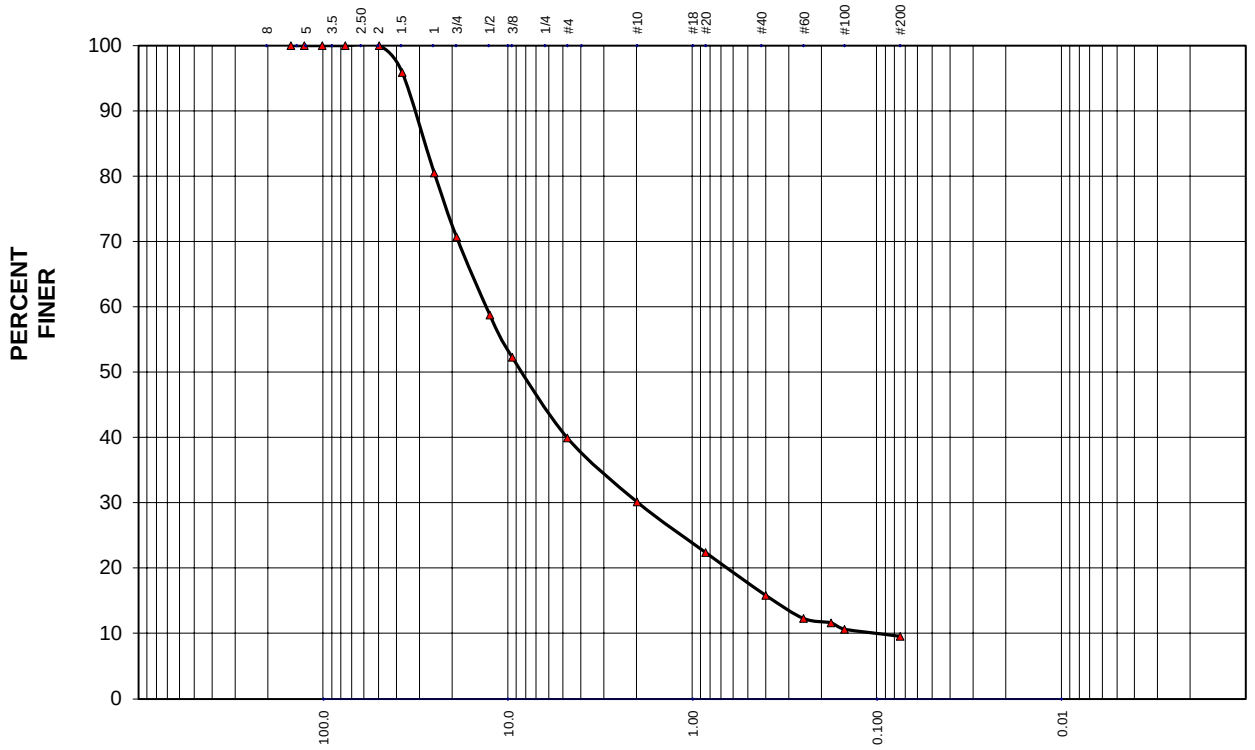
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(1) Geosyntec Consultants, Paul Brookner

(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	
		32.2	25.5	42.3	Silt (>0.002mm)	Clay (<0.002mm)
0.0	60.1		% Sand	30.4	9.6	

Classification: Item 4

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"	775.00	96			
25.0	1"	3695.00	80			
19.0	3/4"	5535.00	71			
12.5	1/2"	7805.00	59			
9.5	3/8"	9025.00	52			
4.75	#4	11360.00	40			
2.00	#10	94.95	30			
0.850	#20	170.00	22			
0.400	#40	233.79	16			
0.250	#60	268.08	12			
0.177	#80	274.86	12			
0.150	#100	283.91	11			
0.075	#200	294.83	10			

Total Dry Wt. 18915 g
Split Wt. 387.64 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**12/7/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit	Sample #2			

Terracon
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Rochester, NY 14624
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 12/5/2022

Distribution Page

Report Number: J5211361.0181F
Service Date: 11/08/22
Report Date: 12/07/22
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

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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0181J
Service Date: 11/08/22
Report Date: 12/13/22

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/08/22
Sampled By: Pete Valenti
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample #1

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

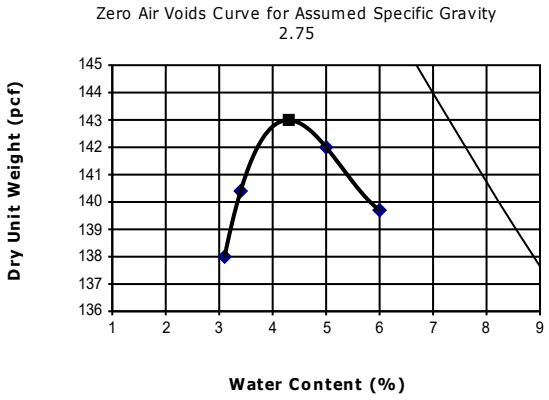
USCS:

Oversized Particles (%): 31.7
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **143.0**
Optimum Water Content (%): **4.3**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.3**
Optimum Water Content (%): **6.2**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0181J
Service Date: 11/08/22
Report Date: 12/13/22
Task:

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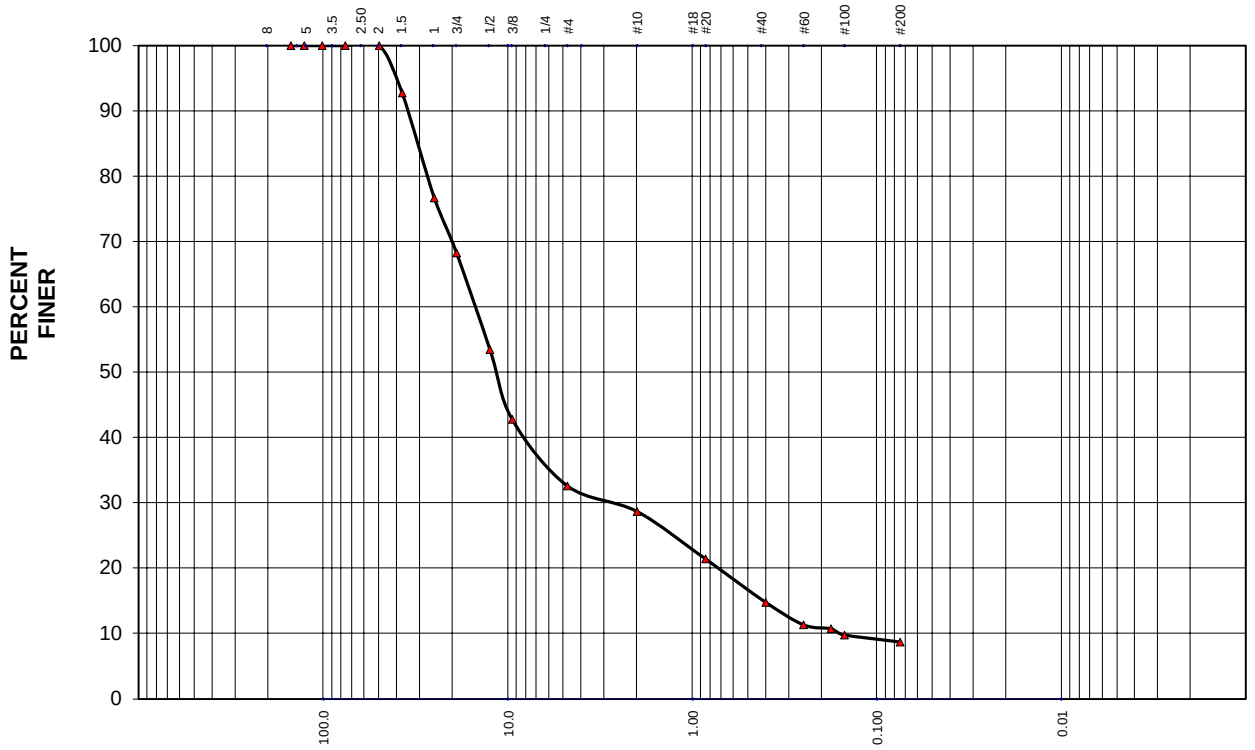
(1) Geosyntec Consultants, Paul Botek

(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	
		16.2	30.6	53.2	Silt (>0.002mm)	Clay (<0.002mm)
0.0	67.4		% Sand	23.9	8.7	

Classification: Item 4

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"	1325.00	93			
25.0	1"	4250.00	77			
19.0	3/4"	5785.00	68			
12.5	1/2"	8490.00	53			
9.5	3/8"	10440.00	43			
4.75	#4	12300.00	33			
2.00	#10	38.19	29			
0.850	#20	110.06	21			
0.400	#40	175.18	15			
0.250	#60	209.38	11			
0.177	#80	215.43	11			
0.150	#100	224.71	10			
0.075	#200	235.13	9			

Total Dry Wt. 18240 g
Split Wt. 320.77 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**12/13/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit	Sample #1			

Terracon
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Rochester, NY 14624
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 12/13/2022

Distribution Page

Report Number: J5211361.0181G
Service Date: 11/08/22
Report Date: 12/13/22
Task:

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

Distribution List

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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0181I
Service Date: 11/08/22
Report Date: 12/13/22

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/08/22
Sampled By: Pete Valenti
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample 3

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

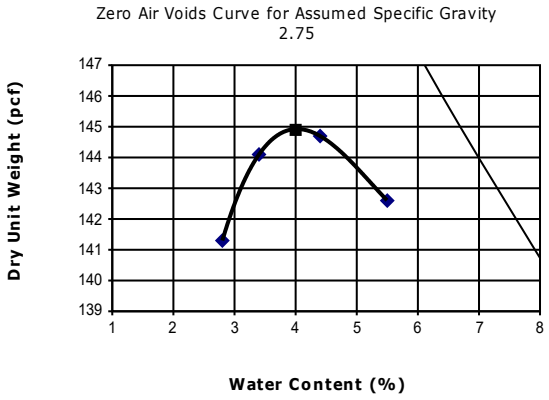
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 32.7
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **144.9**
Optimum Water Content (%): **4.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **136.7**
Optimum Water Content (%): **5.7**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0181I
Service Date: 11/08/22
Report Date: 12/13/22
Task:

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(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

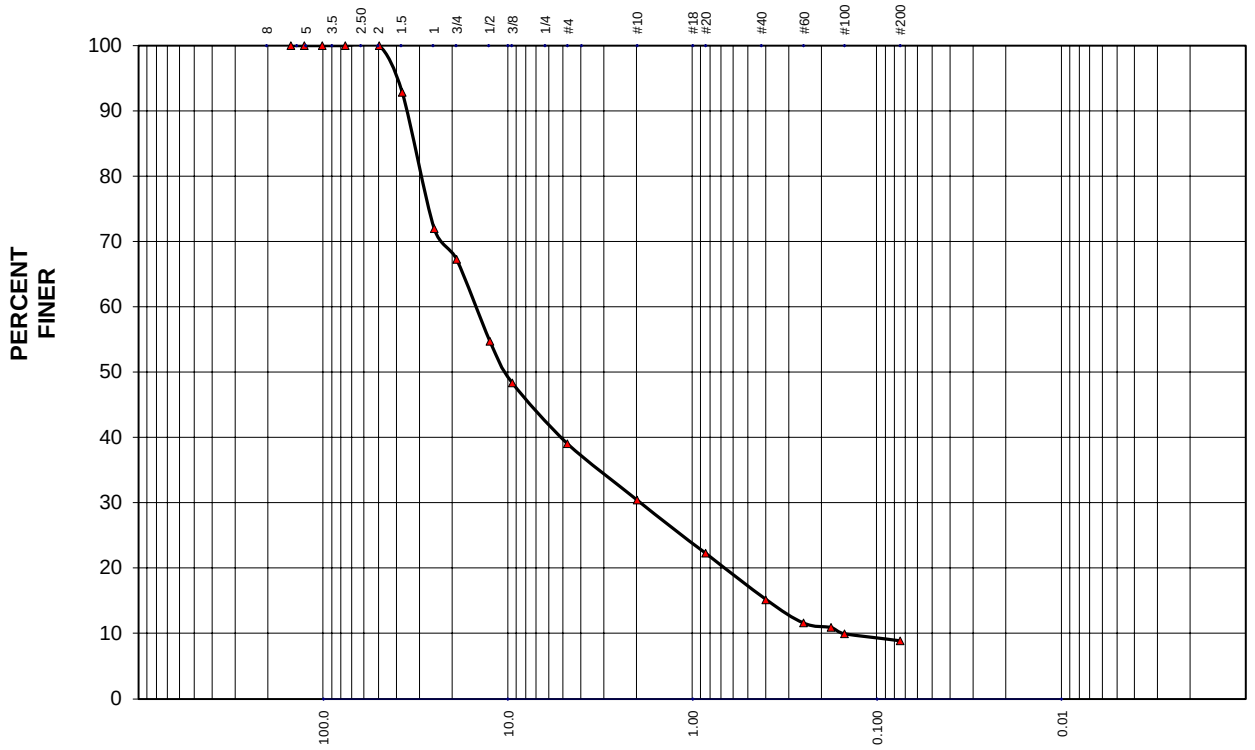
(1) Geosyntec Consultants, Paul Botek

(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	
		28.6	27.1	44.3	Silt (>0.002mm)	Clay (<0.002mm)
0.0	60.9		% Sand	30.2	8.9	

Classification: Item 4

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"	1700.00	93			
25.0	1"	6695.00	72			
19.0	3/4"	7805.00	67			
12.5	1/2"	10800.00	55			
9.5	3/8"	12310.00	48			
4.75	#4	14530.00	39			
2.00	#10	81.33	30			
0.850	#20	158.26	22			
0.400	#40	224.70	15			
0.250	#60	258.63	12			
0.177	#80	265.04	11			
0.150	#100	273.73	10			
0.075	#200	283.88	9			

Total Dry Wt. 23850 g
Split Wt. 367.69 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**12/13/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit	Sample #3			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 12/8/2022

Distribution Page

Report Number: J5211361.0181H
Service Date: 11/08/22
Report Date: 12/13/22
Task:

15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
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Distribution List

(1) Geosyntec Consultants, Miranda Stelmach

(1) Geosyntec Consultants, Aron Krasnopoler

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(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0181K
Service Date: 11/08/22
Report Date: 12/13/22

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/08/22
Sampled By: Pete Valenti
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample 4

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

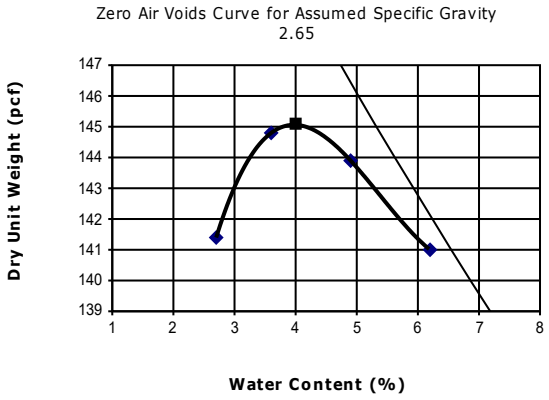
USCS:

Oversized Particles (%): 32.3
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **145.1**
Optimum Water Content (%): **4.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **137.0**
Optimum Water Content (%): **5.6**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0181K
Service Date: 11/08/22
Report Date: 12/13/22
Task:

15 Marway Cir, Ste 2B
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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

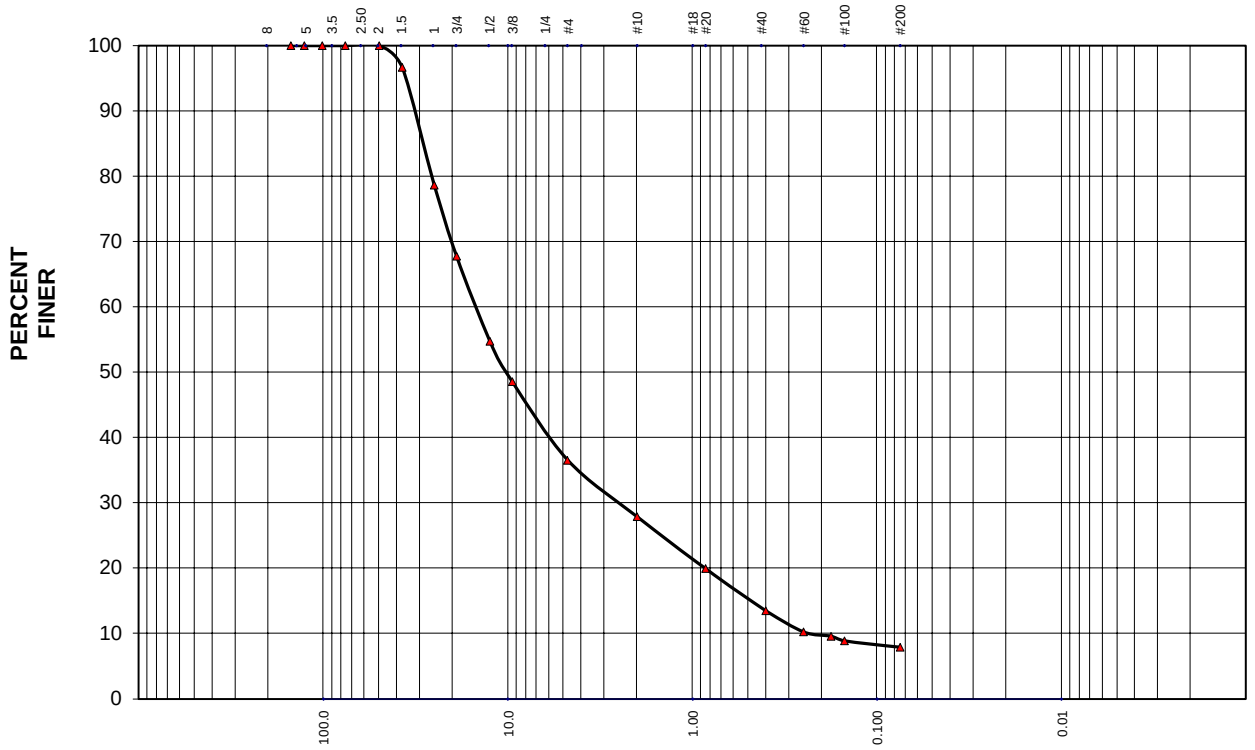
(1) Geosyntec Consultants, Paul Botek

(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	
		30.3	27.8	41.9	Silt (>0.002mm)	Clay (<0.002mm)
0.0	63.4		% Sand	28.7	7.9	

Classification: Item 4

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"	600.00	97			
25.0	1"	3870.00	79			
19.0	3/4"	5840.00	68			
12.5	1/2"	8200.00	55			
9.5	3/8"	9315.00	49			
4.75	#4	11490.00	37			
2.00	#10	94.21	28			
0.850	#20	180.54	20			
0.400	#40	249.82	14			
0.250	#60	285.48	10			
0.177	#80	292.43	10			
0.150	#100	300.17	9			
0.075	#200	310.94	8			

Total Dry Wt. 18110 g
Split Wt. 396.56 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**12/13/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit	Sample #4			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 12/7/2022

Distribution Page

Report Number: J5211361.0181L
Service Date: 11/08/22
Report Date: 12/13/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0181N
Service Date: 11/08/22
Report Date: 12/30/22

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/08/22
Sampled By: Pete Valenti
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample #5

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

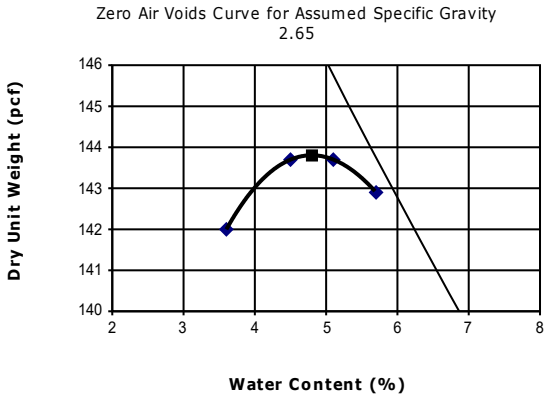
USCS:

Oversized Particles (%): 31.9
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **143.8**
Optimum Water Content (%): **4.8**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.5**
Optimum Water Content (%): **6.8**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0181N
Service Date: 11/08/22
Report Date: 12/30/22
Task:

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Distribution List

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(1) Geosyntec Consultants, Aron Krasnopoler

(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

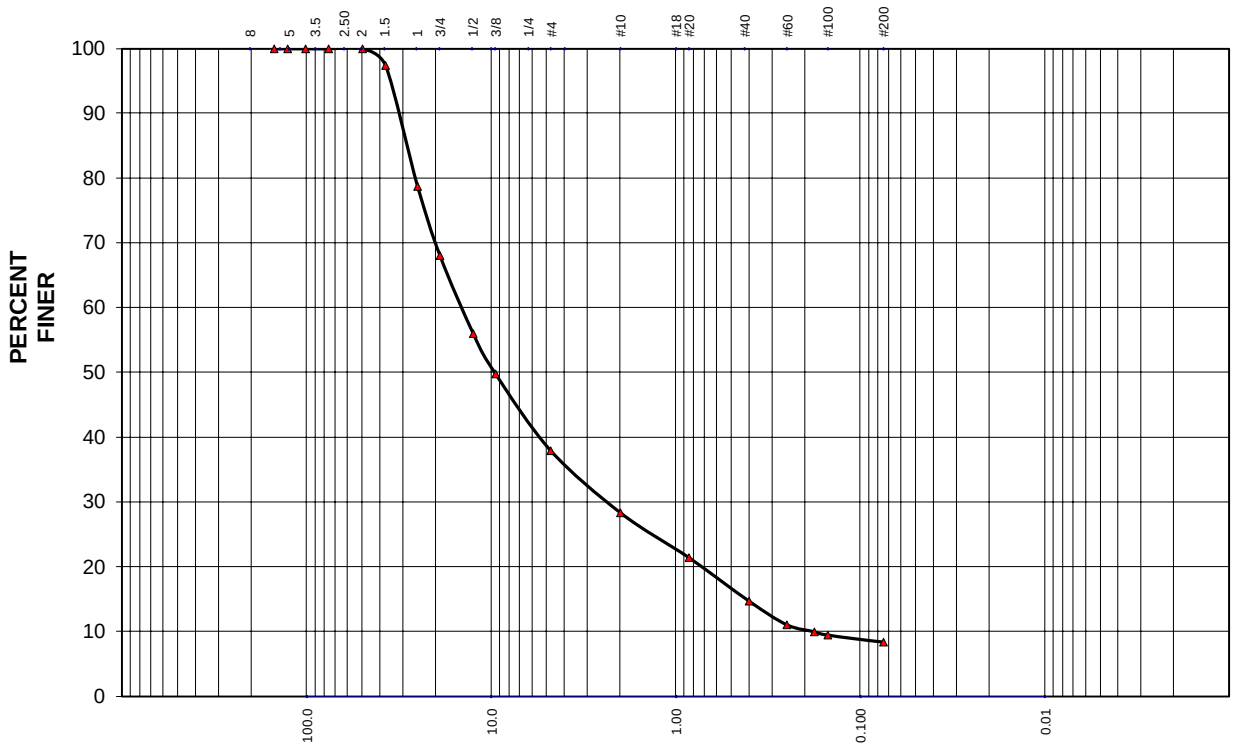
(1) Geosyntec Consultants, Paul Botek

(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	
		32.3	23.5	44.2	Silt (>0.002mm)	Clay (<0.002mm)
0.0	62.1		% Sand	29.5	8.4	

Classification: Item 4

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"	475.00	97			
25.0	1"	3820.00	79			
19.0	3/4"	5725.00	68			
12.5	1/2"	7900.00	56			
9.5	3/8"	9010.00	50			
4.75	#4	11140.00	38			
2.00	#10	100.11	28			
0.850	#20	173.19	21			
0.400	#40	243.89	15			
0.250	#60	281.58	11			
0.177	#80	293.43	10			
0.150	#100	298.72	9			
0.075	#200	310.36	8			

Total Dry Wt. 17940 g
Split Wt. 398.13 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**12/27/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit	Sample #5			

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15 Marway Circle, Suite 2B
Rochester, NY 14624
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 12/21/2022

Distribution Page

Report Number: J5211361.0181M
Service Date: 11/08/22
Report Date: 12/30/22
Task:

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

Distribution List

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(1) Geosyntec Consultants, Colin Lamas

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(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0183B
Service Date: 11/16/22
Report Date: 01/05/23

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/16/22
Sampled By: Rob Castronovo
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample #6

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

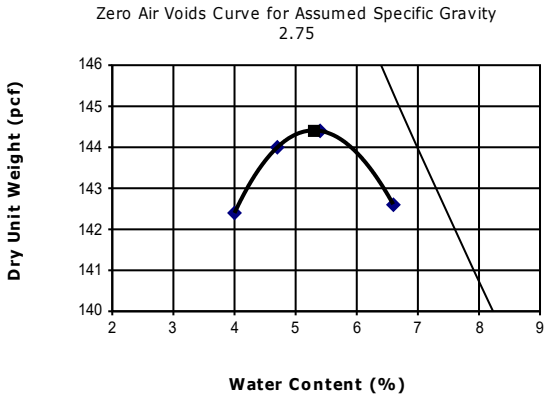
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 32.2
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **144.4**
Optimum Water Content (%): **5.3**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **136.2**
Optimum Water Content (%): **7.7**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0183B
Service Date: 11/16/22
Report Date: 01/05/23
Task:

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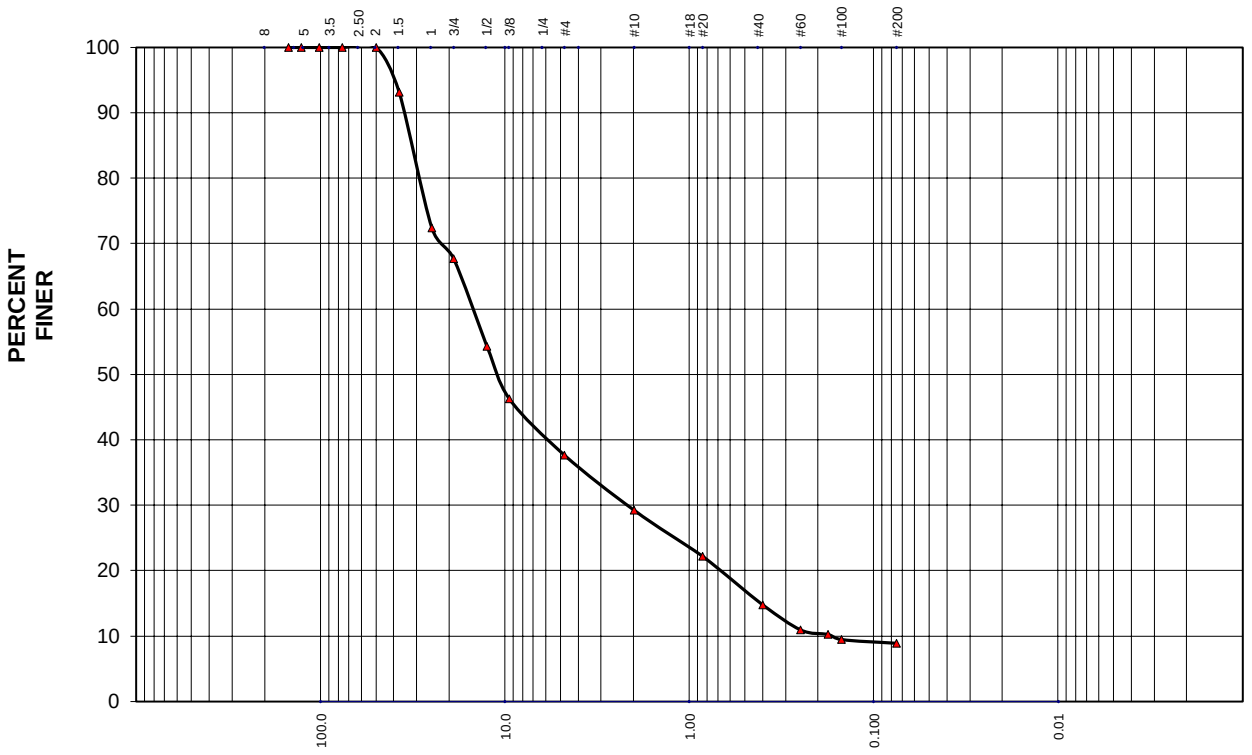
(1) Geosyntec Consultants, Paul Botek

(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	
		29.4	24.4	46.2	Silt (>0.002mm)	Clay (<0.002mm)
0.0	62.3		% Sand	28.7	9.0	

Classification: Item 4

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"	1540.00	93			
25.0	1"	6190.00	72			
19.0	3/4"	7235.00	68			
12.5	1/2"	10245.00	54			
9.5	3/8"	12050.00	46			
4.75	#4	13990.00	38			
2.00	#10	85.38	29			
0.850	#20	156.37	22			
0.400	#40	231.48	15			
0.250	#60	269.93	11			
0.177	#80	277.16	10			
0.150	#100	285.32	9			
0.075	#200	290.55	9			

Total Dry Wt. 22450 g
Split Wt. 381.28 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**1/3/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit	Sample #6			

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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 12/29/2023

Distribution Page

Report Number: J5211361.0183A
Service Date: 11/16/22
Report Date: 01/05/23
Task:

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

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(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0184B
Service Date: 11/22/22
Report Date: 01/05/23

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/16/22
Sampled By: Rob Castronovo
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample #7

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

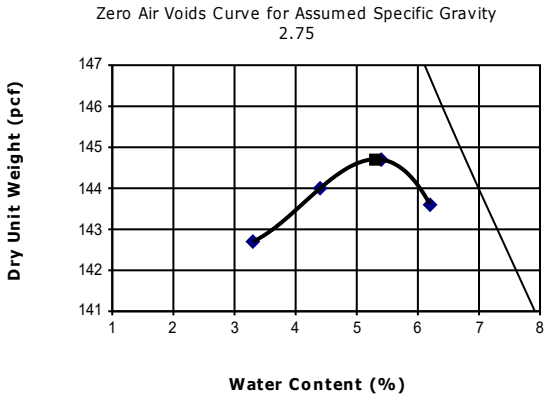
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 32.2
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **144.7**
Optimum Water Content (%): **5.3**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **136.6**
Optimum Water Content (%): **7.6**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0184B
Service Date: 11/22/22
Report Date: 01/05/23
Task:

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(1) Geosyntec Consultants, Colin Lamas

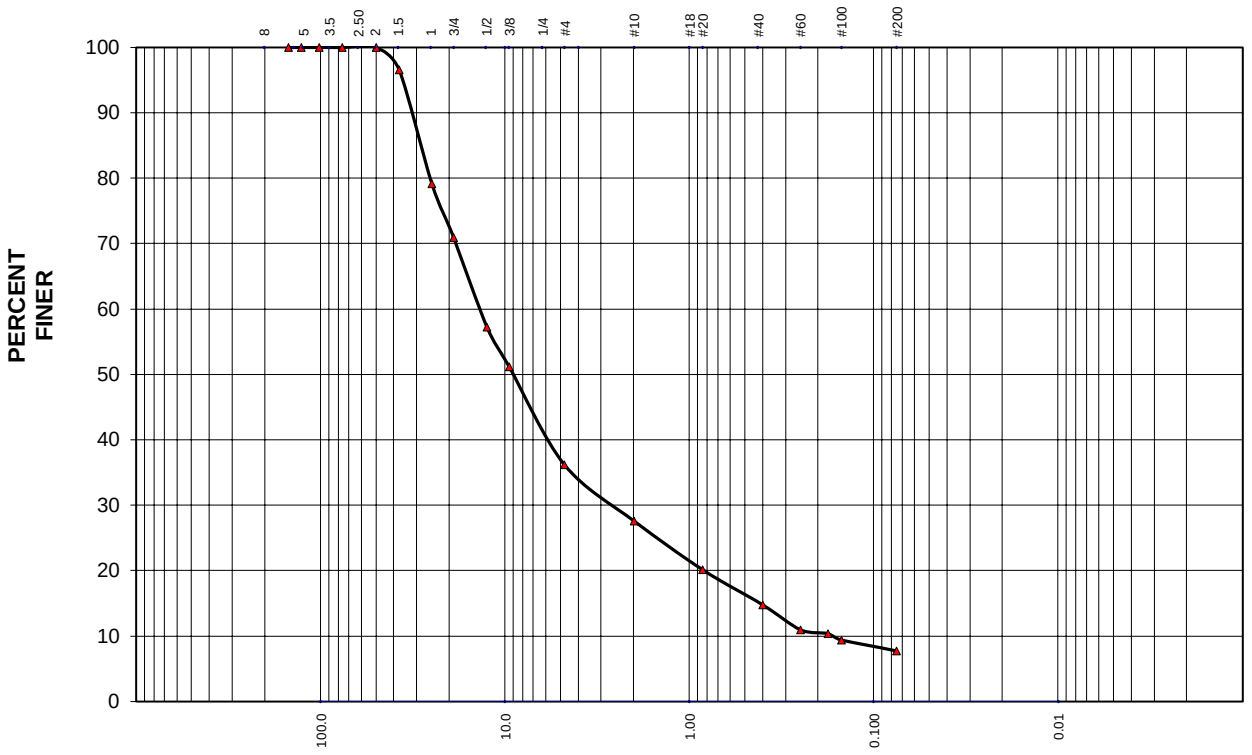
(1) Geosyntec Consultants, Paul Botek

(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	
		30.2	26.1	43.7	Silt (>0.002mm)	Clay (<0.002mm)
0.0	63.8		% Sand	28.4	7.8	

Classification: Item 4

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"	705.00	97			
25.0	1"	4250.00	79			
19.0	3/4"	5945.00	71			
12.5	1/2"	8730.00	57			
9.5	3/8"	9970.00	51			
4.75	#4	13040.00	36			
2.00	#10	119.25	28			
0.850	#20	222.54	20			
0.400	#40	297.63	15			
0.250	#60	350.02	11			
0.177	#80	358.66	10			
0.150	#100	372.41	9			
0.075	#200	395.13	8			

Total Dry Wt. 20440 g
Split Wt. 503.46 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**1/4/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit	Sample 7			

Terracon
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 12/29/2023

Distribution Page

Report Number: J5211361.0184A
Service Date: 11/22/22
Report Date: 01/05/23
Task:

15 Marway Cir, Ste 2B
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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0184D
Service Date: 11/22/22
Report Date: 01/10/23

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/22/22
Sampled By: Rob Castronovo
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample #8

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method A
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

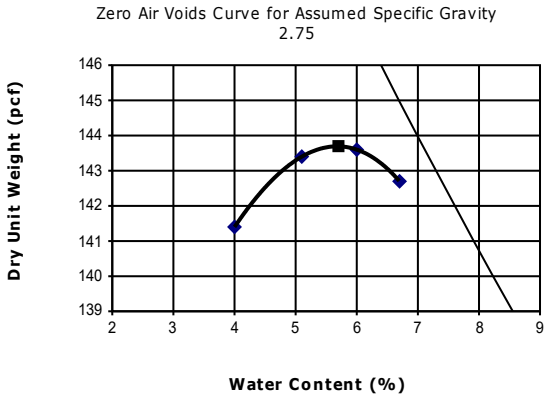
USCS:

Oversized Particles (%): 31.0
Moisture (%): 0.5
Sieve for Oversize Fraction: 4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **143.7**
Optimum Water Content (%): **5.7**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.7**
Optimum Water Content (%): **8.0**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0184D
Service Date: 11/22/22
Report Date: 01/10/23
Task:

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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

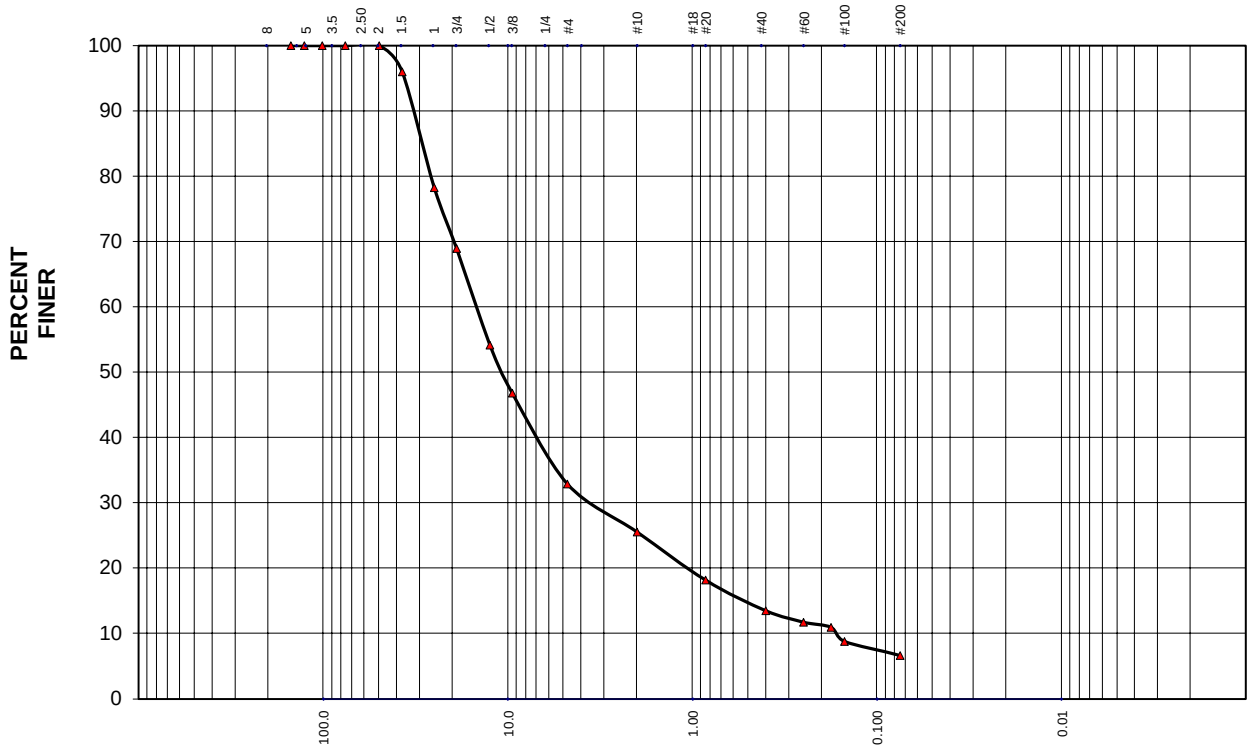
(1) Geosyntec Consultants, Paul Botek

(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	
		28.2	28.0	43.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	67.1		% Sand	26.3	6.7	

Classification: Item 4

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"	735.00	96			
25.0	1"	4005.00	78			
19.0	3/4"	5720.00	69			
12.5	1/2"	8455.00	54			
9.5	3/8"	9800.00	47			
4.75	#4	12365.00	33			
2.00	#10	83.41	26			
0.850	#20	166.09	18			
0.400	#40	218.59	14			
0.250	#60	238.48	12			
0.177	#80	247.76	11			
0.150	#100	271.43	9			
0.075	#200	295.62	7			

Total Dry Wt. 18435 g
Split Wt. 370.71 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**1/6/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit	Sample #8			

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Rochester, NY 14624
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 1/6/2023

Distribution Page

Report Number: J5211361.0184C
Service Date: 11/22/22
Report Date: 01/10/23
Task:

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Rochester, NY 14624-2300
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Distribution List

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(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0184F
Service Date: 11/22/22
Report Date: 01/10/23

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/22/22
Sampled By: Rob Castronovo
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample 9

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

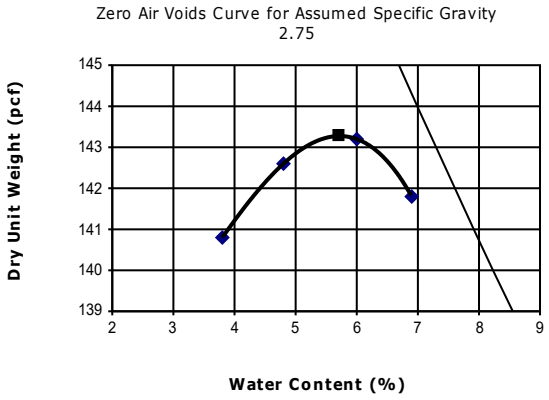
USCS:

Oversized Particles (%): 28.9
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **143.3**
Optimum Water Content (%): **5.7**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.9**
Optimum Water Content (%): **7.9**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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Distribution Page

Report Number: J5211361.0184F
Service Date: 11/22/22
Report Date: 01/10/23
Task:

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Rochester, NY 14624-2300
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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

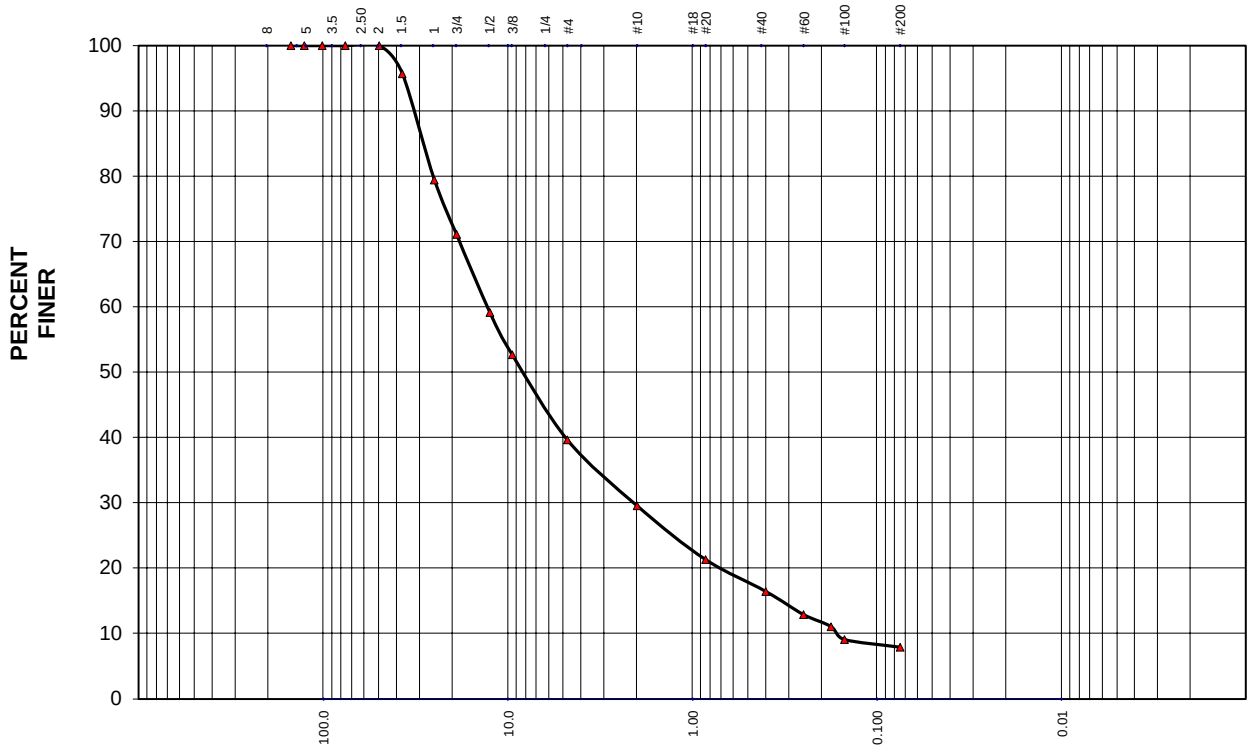
(1) Geosyntec Consultants, Paul Botek

(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	
		31.8	25.8	42.3	Silt (>0.002mm)	Clay (<0.002mm)
0.0	60.4		% Sand	31.7	7.9	

Classification: Item 4

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"	1005.00	96			
25.0	1"	4835.00	79			
19.0	3/4"	6815.00	71			
12.5	1/2"	9625.00	59			
9.5	3/8"	11145.00	53			
4.75	#4	14225.00	40			
2.00	#10	139.41	30			
0.850	#20	252.64	21			
0.400	#40	320.09	16			
0.250	#60	369.36	13			
0.177	#80	395.01	11			
0.150	#100	422.12	9			
0.075	#200	438.16	8			

Total Dry Wt. 23550 g
Split Wt. 547.85 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**1/4/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit	Sample 9			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 1/9/2023

Distribution Page

Report Number: J5211361.0184E
Service Date: 11/22/22
Report Date: 01/10/23
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

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LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0184H
Service Date: 11/22/22
Report Date: 01/12/23

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/22/22
Sampled By: Rob Castronovo
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample 10

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

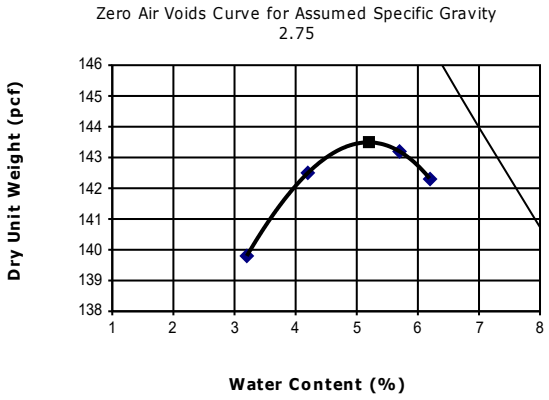
USCS:

Oversized Particles (%): 33.4
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **143.5**
Optimum Water Content (%): **5.2**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.6**
Optimum Water Content (%): **7.6**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0184H
Service Date: 11/22/22
Report Date: 01/12/23
Task:

15 Marway Cir, Ste 2B
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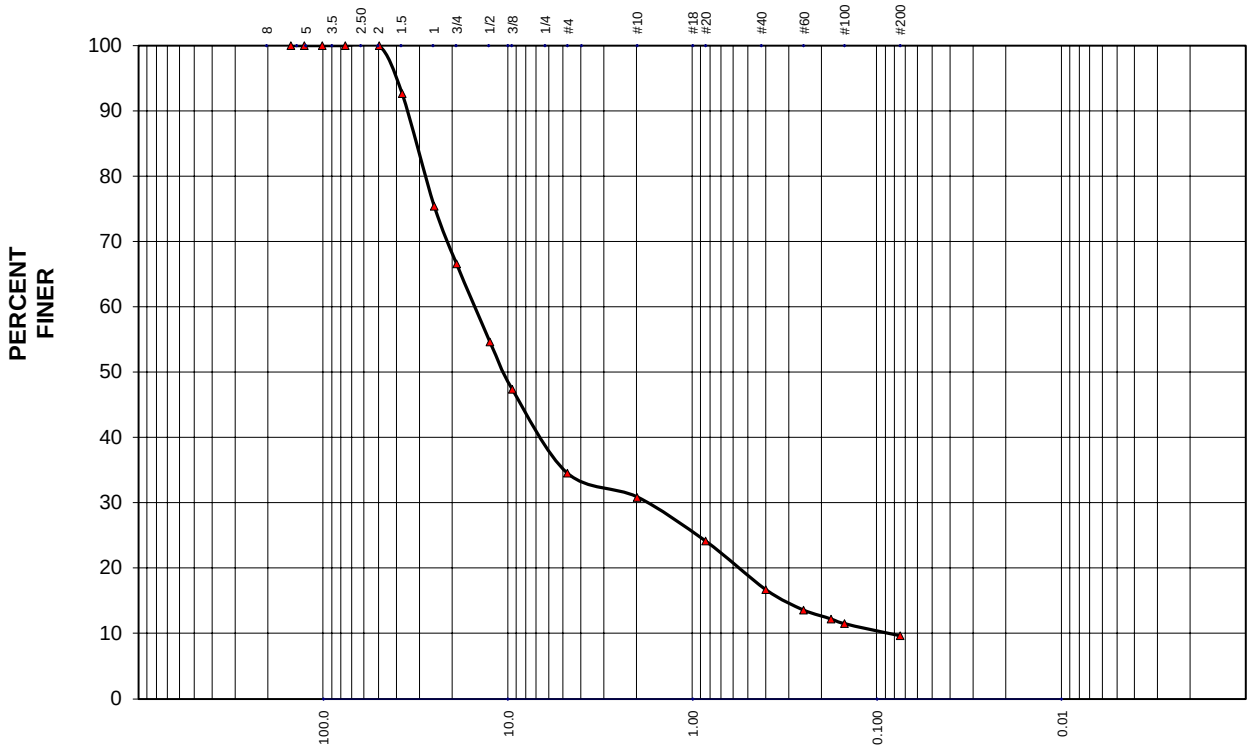
(1) Geosyntec Consultants, Paul Botek

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(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	
		14.7	27.1	58.2	Silt (>0.002mm)	Clay (<0.002mm)
0.0	65.5		% Sand	24.8	9.7	

Classification: Item 4

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"	1405.00	93			
25.0	1"	4680.00	75			
19.0	3/4"	6355.00	67			
12.5	1/2"	8625.00	55			
9.5	3/8"	10005.00	47			
4.75	#4	12460.00	35			
2.00	#10	35.06	31			
0.850	#20	99.57	24			
0.400	#40	171.38	17			
0.250	#60	200.82	14			
0.177	#80	213.93	12			
0.150	#100	221.13	11			
0.075	#200	238.44	10			

Total Dry Wt. 19030 g
Split Wt. 331.43 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**1/11/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit	Sample #10			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 1/10/2023

Distribution Page

Report Number: J5211361.0184G
Service Date: 11/22/22
Report Date: 01/12/23
Task:

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

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(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0184J
Service Date: 11/22/22
Report Date: 01/24/23

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/22/22
Sampled By: Pete Valenti
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample 11

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

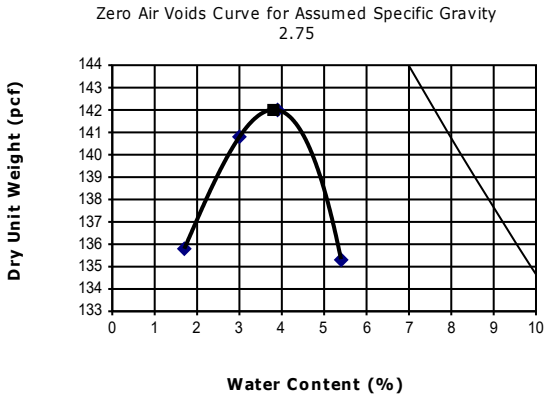
USCS:

Oversized Particles (%): 27.3
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **142.0**
Optimum Water Content (%): **3.8**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.8**
Optimum Water Content (%): **5.1**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0184J
Service Date: 11/22/22
Report Date: 01/24/23
Task:

15 Marway Cir, Ste 2B
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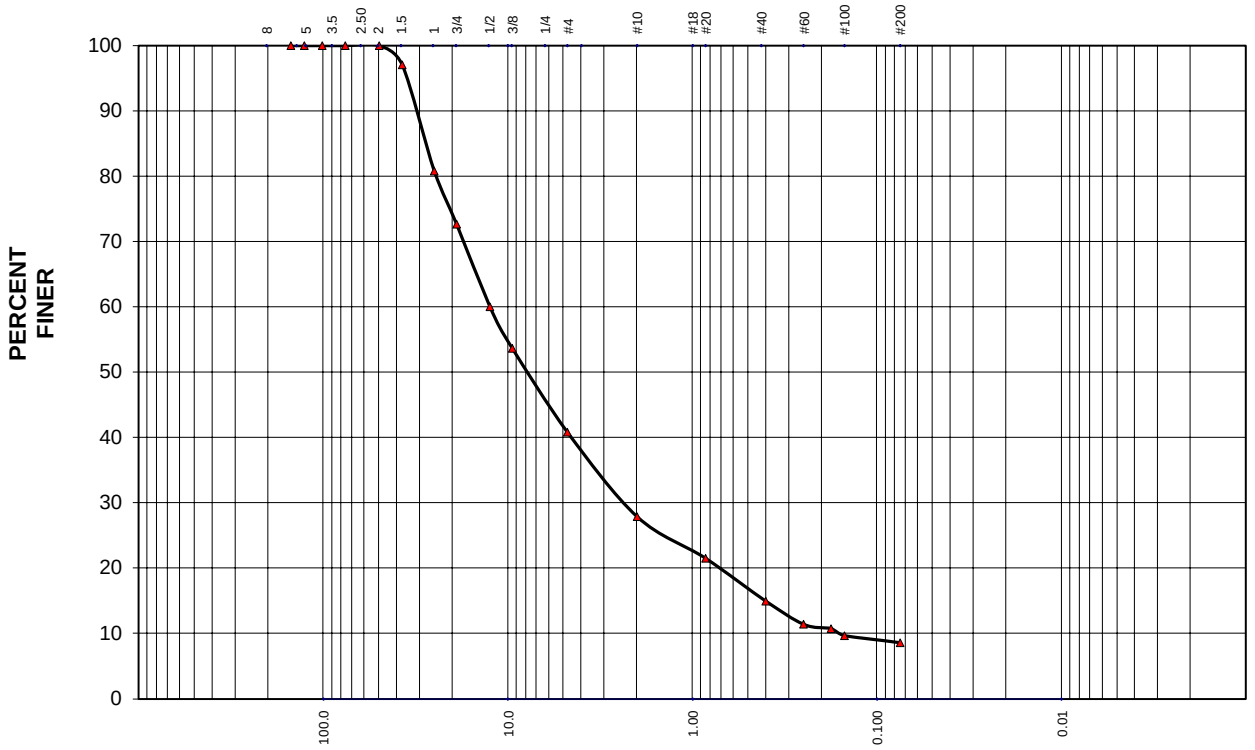
(1) Geosyntec Consultants, Paul Botek

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(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	
		40.1	19.7	40.1	Silt (>0.002mm)	Clay (<0.002mm)
0.0	59.2		% Sand	32.2	8.6	

Classification: Item 4

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"	565.00	97			
25.0	1"	3725.00	81			
19.0	3/4"	5305.00	73			
12.5	1/2"	7765.00	60			
9.5	3/8"	9000.00	54			
4.75	#4	11505.00	41			
2.00	#10	153.53	28			
0.850	#20	228.96	22			
0.400	#40	306.73	15			
0.250	#60	349.21	11			
0.177	#80	356.82	11			
0.150	#100	369.26	10			
0.075	#200	382.40	9			

Total Dry Wt. 19435 g
Split Wt. 484.29 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**1/24/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit	Sample #11			

Terracon
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Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 1/20/2023

Distribution Page

Report Number: J5211361.0184I
Service Date: 11/22/22
Report Date: 01/24/23
Task:

15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0184L
Service Date: 11/22/22
Report Date: 01/24/23

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/22/22
Sampled By: Pete Valenti
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample 12

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

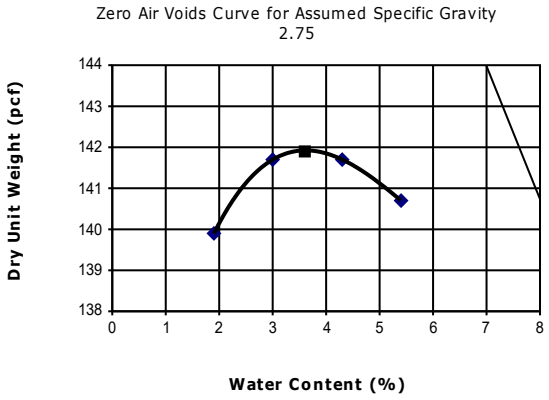
USCS:

Oversized Particles (%): 31.7
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **141.9**
Optimum Water Content (%): **3.6**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.1**
Optimum Water Content (%): **5.2**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0184L
Service Date: 11/22/22
Report Date: 01/24/23
Task:

15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

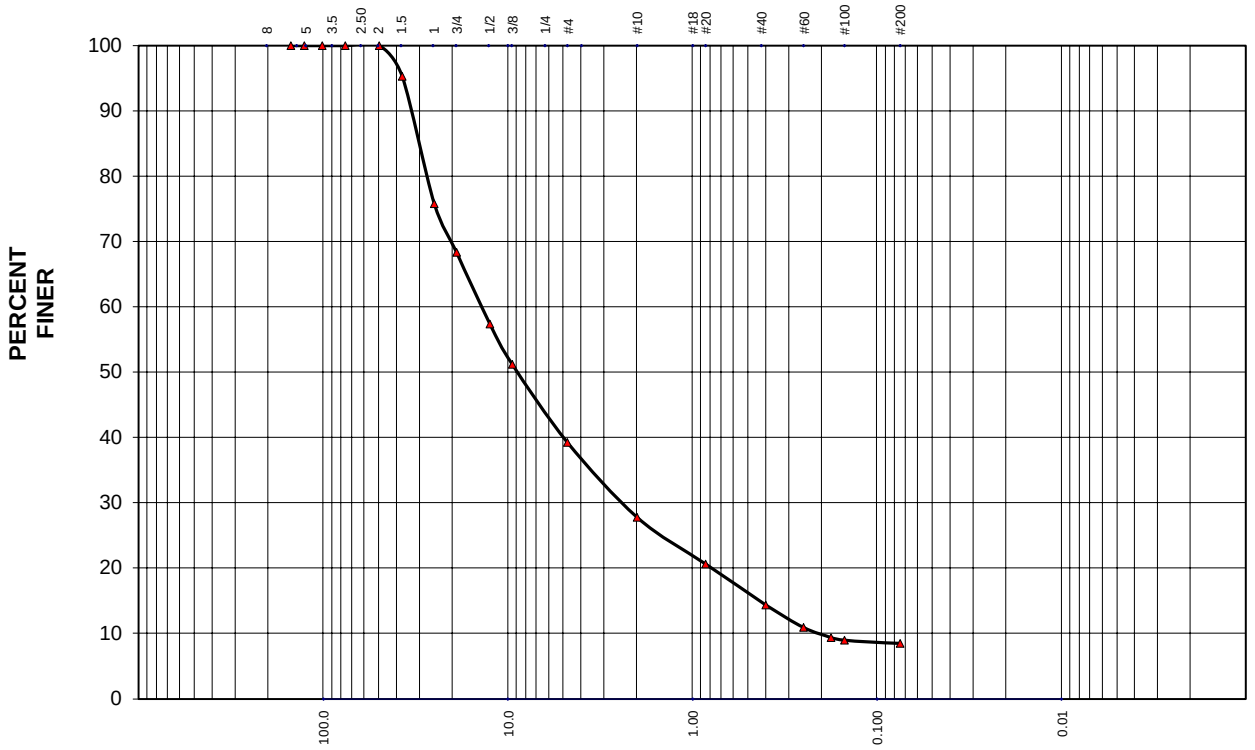
(1) Geosyntec Consultants, Paul Botek

(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	
		37.2	23.1	39.7	Silt (>0.002mm)	Clay (<0.002mm)
0.0	60.7		% Sand	30.8	8.5	

Classification: Item 4

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"	920.00	95			
25.0	1"	4710.00	76			
19.0	3/4"	6170.00	68			
12.5	1/2"	8295.00	57			
9.5	3/8"	9500.00	51			
4.75	#4	11830.00	39			
2.00	#10	180.22	28			
0.850	#20	291.85	21			
0.400	#40	390.41	14			
0.250	#60	444.91	11			
0.177	#80	468.82	9			
0.150	#100	475.86	9			
0.075	#200	483.85	8			

Total Dry Wt. 19475 g
Split Wt. 616.58 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**1/24/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit	Sample #12			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 1/20/2023

Distribution Page

Report Number: J5211361.0184K
Service Date: 11/22/22
Report Date: 01/24/23
Task:

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

Distribution List

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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0184N
Service Date: 11/22/22
Report Date: 02/09/23

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/22/22
Sampled By: Pete Valenti
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample 13

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

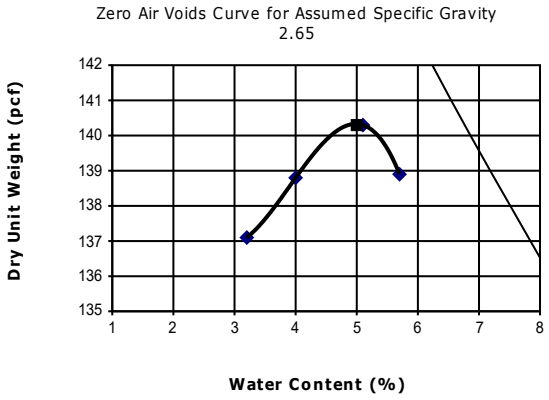
USCS:

Oversized Particles (%): 32.0
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.3**
Optimum Water Content (%): **5.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **130.9**
Optimum Water Content (%): **7.0**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0184N
Service Date: 11/22/22
Report Date: 02/09/23
Task:

15 Marway Cir, Ste 2B
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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

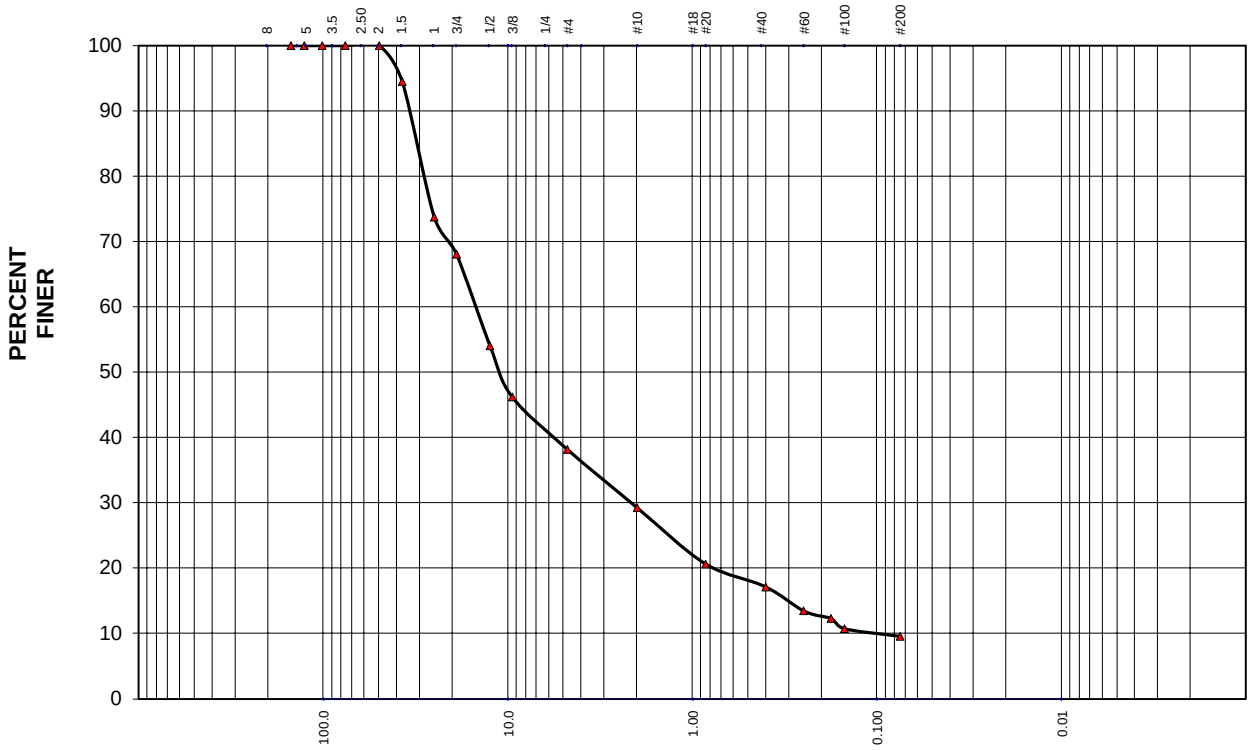
(1) Geosyntec Consultants, Paul Botek

(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	
		31.3	29.9	38.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	61.8		% Sand	28.7	9.5	

Classification: Item 4

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"	1195.00	95			
25.0	1"	5735.00	74			
19.0	3/4"	6980.00	68			
12.5	1/2"	10040.00	54			
9.5	3/8"	11745.00	46			
4.75	#4	13500.00	38			
2.00	#10	96.85	29			
0.850	#20	189.42	21			
0.400	#40	227.45	17			
0.250	#60	267.22	13			
0.177	#80	280.03	12			
0.150	#100	296.53	11			
0.075	#200	309.45	10			

Total Dry Wt. 21845 g
Split Wt. 412.53 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**2/6/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit	Sample 13			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 2/3/2023

Distribution Page

Report Number: J5211361.0184M
Service Date: 11/22/22
Report Date: 02/09/23
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0203B
Service Date: 03/03/23
Report Date: 03/09/23

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 03/03/23
Sampled By: Davut Tuncay
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample #16

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

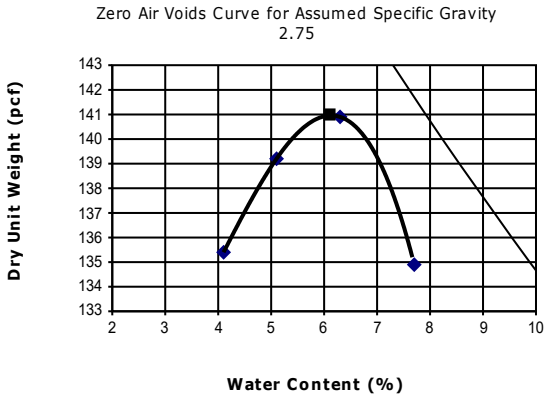
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 20.5
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **141.0**
Optimum Water Content (%): **6.1**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.7**
Optimum Water Content (%): **7.6**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0203B
Service Date: 03/03/23
Report Date: 03/09/23
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

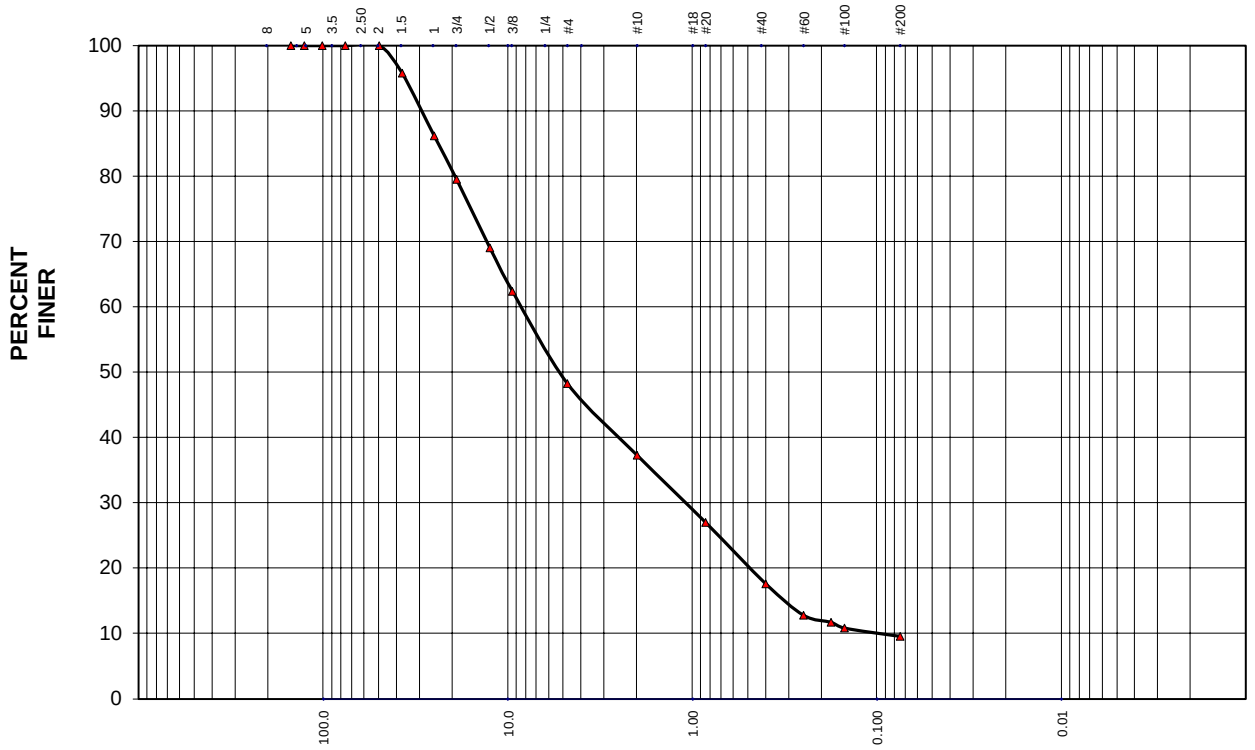
(1) Geosyntec Consultants, Paul Botek

(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	
		28.3	26.5	45.2	Silt (>0.002mm)	Clay (<0.002mm)
0.0	51.7		% Sand	38.7	9.5	

Classification: Item 4 - Sample 16

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"	775.00	96			
25.0	1"	2520.00	86			
19.0	3/4"	3725.00	80			
12.5	1/2"	5630.00	69			
9.5	3/8"	6830.00	62			
4.75	#4	9405.00	48			
2.00	#10	77.66	37			
0.850	#20	150.42	27			
0.400	#40	216.92	18			
0.250	#60	251.34	13			
0.177	#80	258.61	12			
0.150	#100	265.20	11			
0.075	#200	274.28	10			

Total Dry Wt. 18175 g
Split Wt. 341.69 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/9/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit				

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/8/2023

Distribution Page

Report Number: J5211361.0203A
Service Date: 03/03/23
Report Date: 03/09/23
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0203D
Service Date: 03/03/23
Report Date: 03/09/23

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 03/03/23
Sampled By: Davut Tuncay
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample #17

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

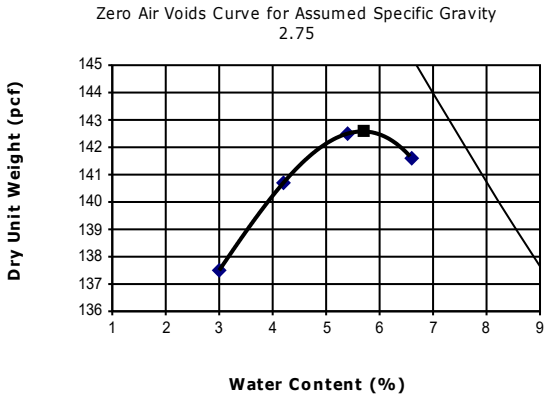
USCS:

Oversized Particles (%): 28.7
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **142.6**
Optimum Water Content (%): **5.7**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.1**
Optimum Water Content (%): **7.7**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0203D
Service Date: 03/03/23
Report Date: 03/09/23
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

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(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

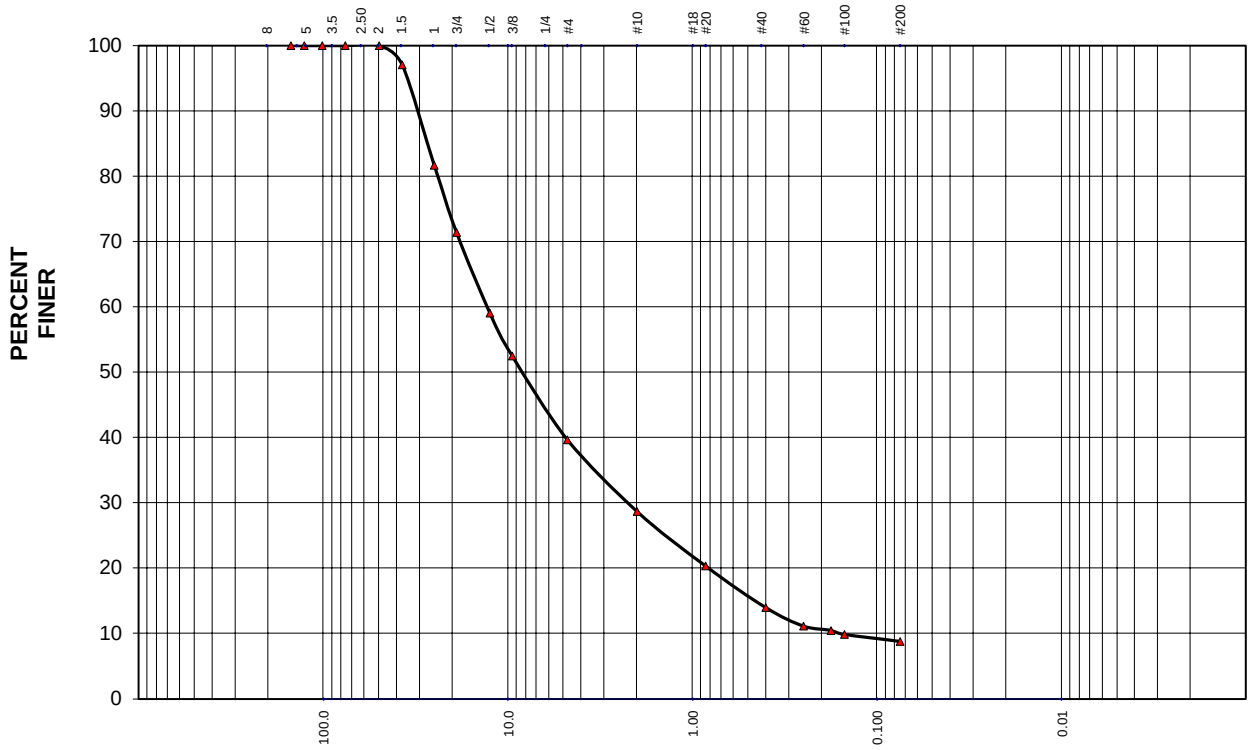
(1) Geosyntec Consultants, Paul Botek

(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	
		35.8	26.9	37.3	Silt (>0.002mm)	Clay (<0.002mm)
0.0	60.3		% Sand	30.9	8.8	

Classification: Item 4 - Sample 17

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"	490.00	97			
25.0	1"	3030.00	82			
19.0	3/4"	4730.00	71			
12.5	1/2"	6755.00	59			
9.5	3/8"	7840.00	52			
4.75	#4	9955.00	40			
2.00	#10	166.76	29			
0.850	#20	292.00	20			
0.400	#40	388.07	14			
0.250	#60	431.03	11			
0.177	#80	440.26	10			
0.150	#100	450.25	10			
0.075	#200	466.07	9			

Total Dry Wt. 16505 g
Split Wt. 598.48 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/9/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit				

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/8/2023

Distribution Page

Report Number: J5211361.0203C
Service Date: 03/03/23
Report Date: 03/09/23
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

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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0203F
Service Date: 03/03/23
Report Date: 03/09/23

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 03/03/23
Sampled By: Davut Tuncay
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample #18

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

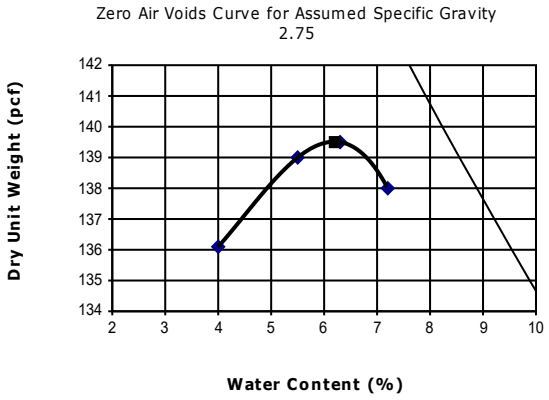
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 25.9
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **139.5**
Optimum Water Content (%): **6.2**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **132.2**
Optimum Water Content (%): **8.2**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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Distribution Page

Report Number: J5211361.0203F
Service Date: 03/03/23
Report Date: 03/09/23
Task:

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

Distribution List

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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

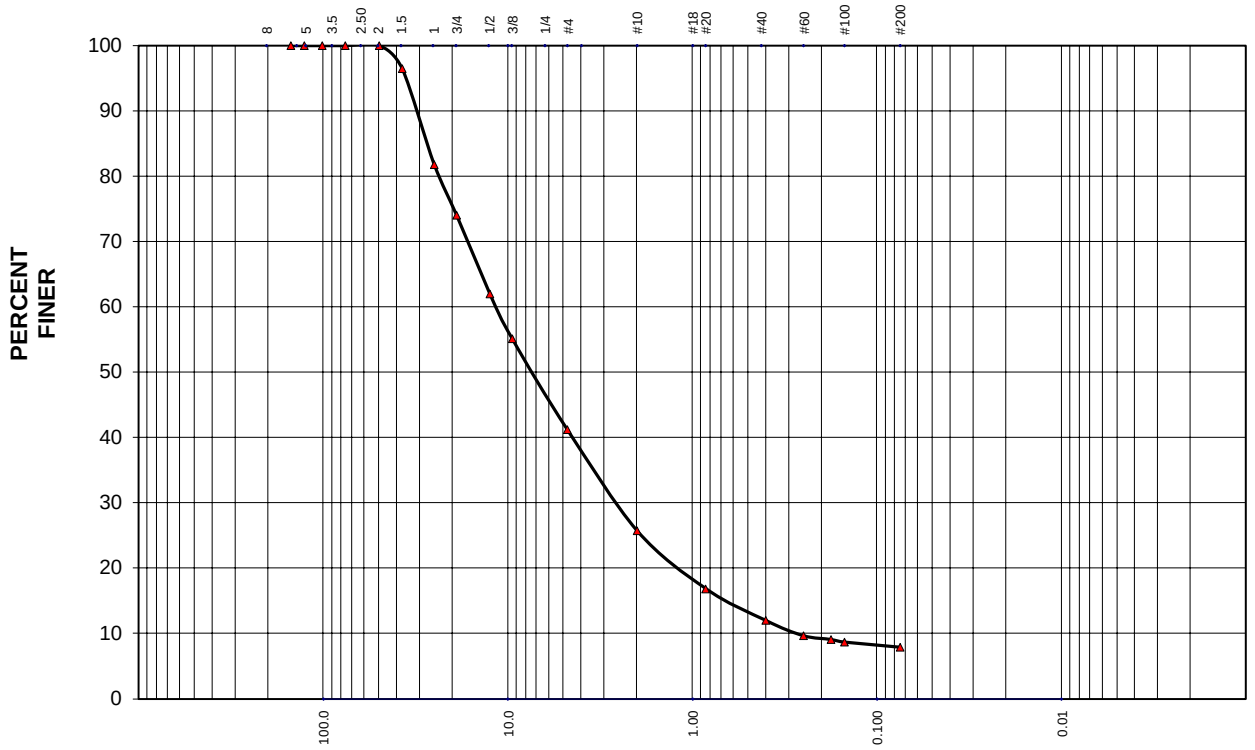
(1) Geosyntec Consultants, Paul Botek

(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	
		46.3	26.8	26.9	Silt (>0.002mm)	Clay (<0.002mm)
0.0	58.8		% Sand	33.3	7.9	

Classification: Item 4 - Sample 18

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"	595.00	96			
25.0	1"	3030.00	82			
19.0	3/4"	4315.00	74			
12.5	1/2"	6320.00	62			
9.5	3/8"	7475.00	55			
4.75	#4	9790.00	41			
2.00	#10	203.41	26			
0.850	#20	321.20	17			
0.400	#40	385.75	12			
0.250	#60	416.11	10			
0.177	#80	423.56	9			
0.150	#100	429.09	9			
0.075	#200	439.45	8			

Total Dry Wt. 16640 g
Split Wt. 544.04 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/9/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit				

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/7/2023

Distribution Page

Report Number: J5211361.0203E
Service Date: 03/03/23
Report Date: 03/09/23
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0203G
Service Date: 03/03/23
Report Date: 03/14/23

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 03/03/23
Sampled By: Davut Tuncay
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample #19

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

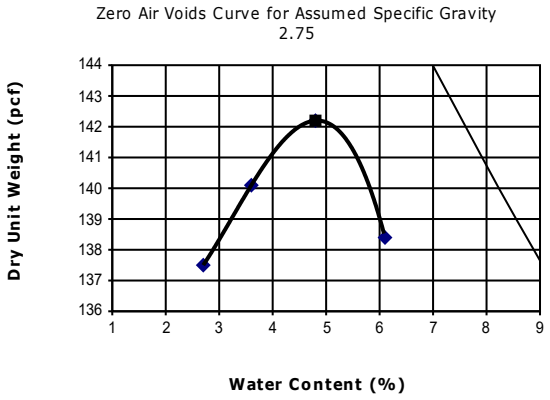
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 34.5
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **142.2**
Optimum Water Content (%): **4.8**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **132.4**
Optimum Water Content (%): **7.1**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0203G
Service Date: 03/03/23
Report Date: 03/14/23
Task:

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

Distribution List

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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

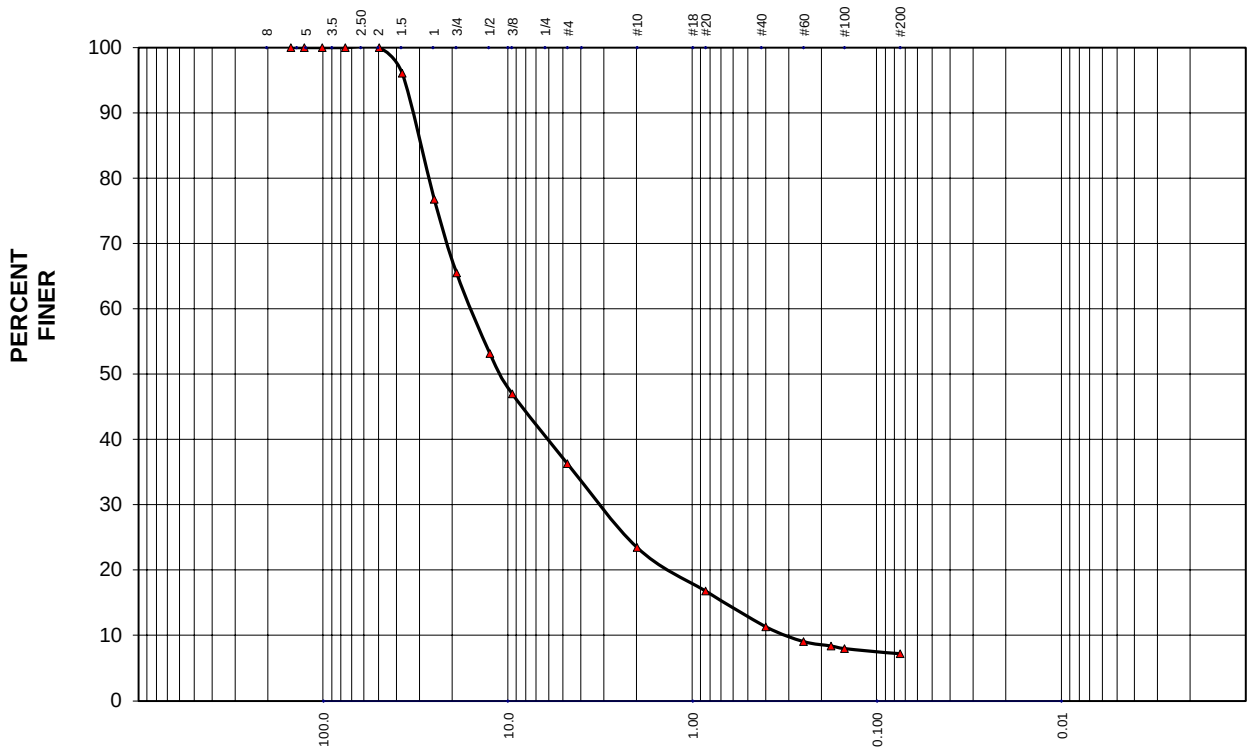
(1) Geosyntec Consultants, Paul Botek

(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	
		44.2	22.9	32.9	Silt (>0.002mm)	Clay (<0.002mm)
0.0	63.7		% Sand	29.1	7.2	

Classification: Item 4 - Sample 19

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"	610.00	96			
25.0	1"	3615.00	77			
19.0	3/4"	5385.00	65			
12.5	1/2"	7310.00	53			
9.5	3/8"	8265.00	47			
4.75	#4	9935.00	36			
2.00	#10	243.13	23			
0.850	#20	368.81	17			
0.400	#40	471.17	11			
0.250	#60	515.27	9			
0.177	#80	526.88	8			
0.150	#100	535.03	8			
0.075	#200	550.02	7			

Total Dry Wt. 15595 g
Split Wt. 685.92 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/13/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit				

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/10/2023

Distribution Page

Report Number: J5211361.0203H
Service Date: 03/03/23
Report Date: 03/14/23
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0203J
Service Date: 03/03/23
Report Date: 03/14/23

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 03/03/23
Sampled By: Davut Tuncay
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample 20

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

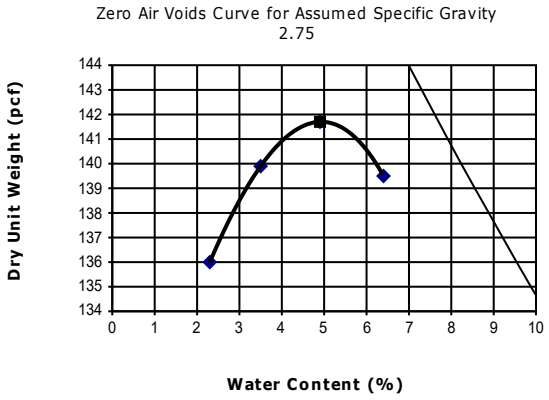
USCS:

Oversized Particles (%): 25.3
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.7

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **141.7**
Optimum Water Content (%): **4.9**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.5**
Optimum Water Content (%): **6.4**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0203J
Service Date: 03/03/23
Report Date: 03/14/23
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

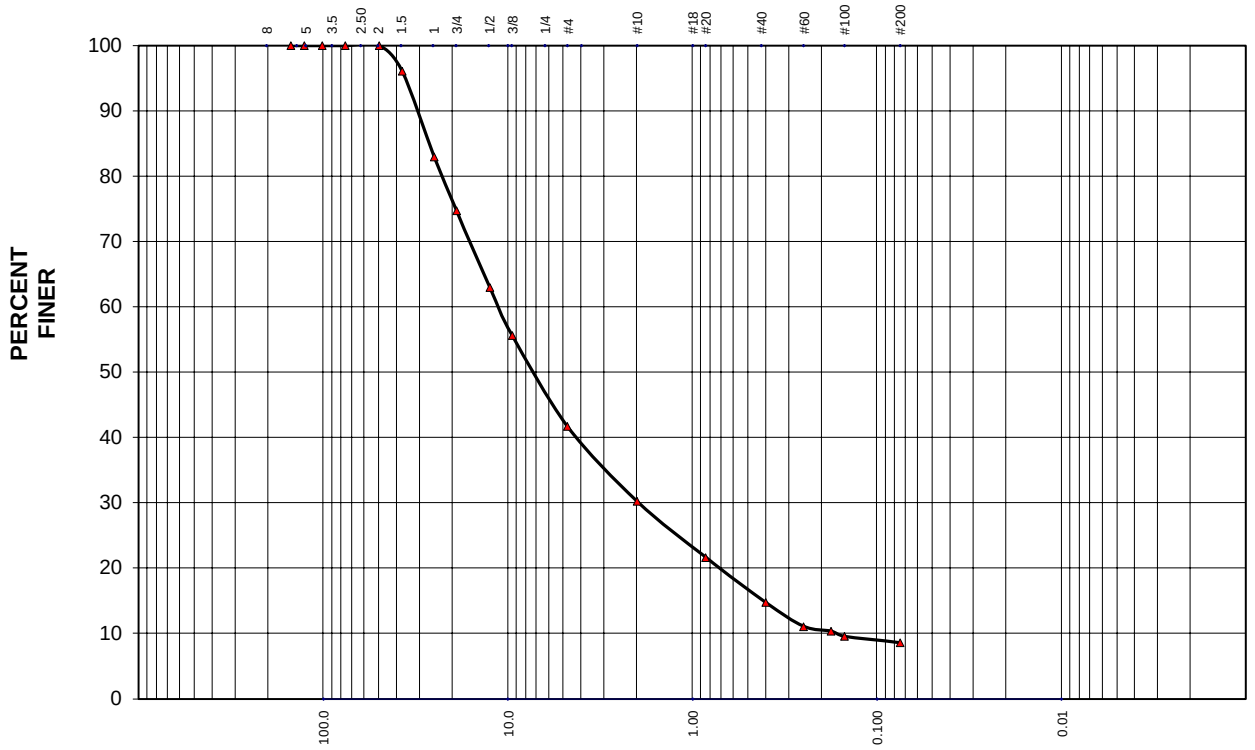
(1) Geosyntec Consultants, Paul Botek

(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	
		34.7	25.9	39.4	Silt (>0.002mm)	Clay (<0.002mm)
0.0	58.3		% Sand	33.1	8.6	

Classification: Item 4 - Sample 20

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"	455.00	96			
25.0	1"	1970.00	83			
19.0	3/4"	2930.00	75			
12.5	1/2"	4290.00	63			
9.5	3/8"	5140.00	56			
4.75	#4	6740.00	42			
2.00	#10	226.35	30			
0.850	#20	395.69	22			
0.400	#40	532.54	15			
0.250	#60	604.12	11			
0.177	#80	617.94	10			
0.150	#100	633.56	10			
0.075	#200	652.93	9			

Total Dry Wt. 11570 g
Split Wt. 822.51 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/13/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit				

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/10/2023

Distribution Page

Report Number: J5211361.0203I
Service Date: 03/03/23
Report Date: 03/14/23
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, Paul Botek

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(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0203L
Service Date: 03/03/23
Report Date: 03/14/23

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 03/03/23
Sampled By: Davut Tuncay
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample #21

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

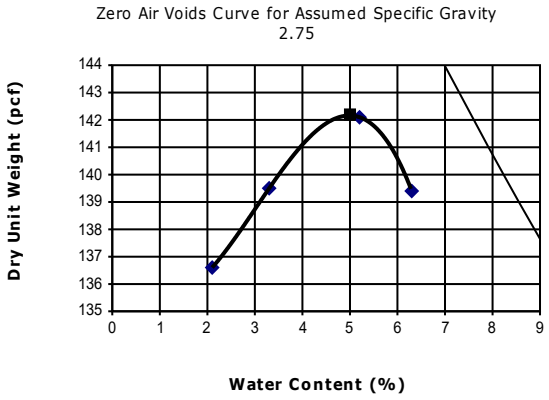
USCS:

Oversized Particles (%): 27.3
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **142.2**
Optimum Water Content (%): **5.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.0**
Optimum Water Content (%): **6.7**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0203L
Service Date: 03/03/23
Report Date: 03/14/23
Task:

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Distribution List

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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

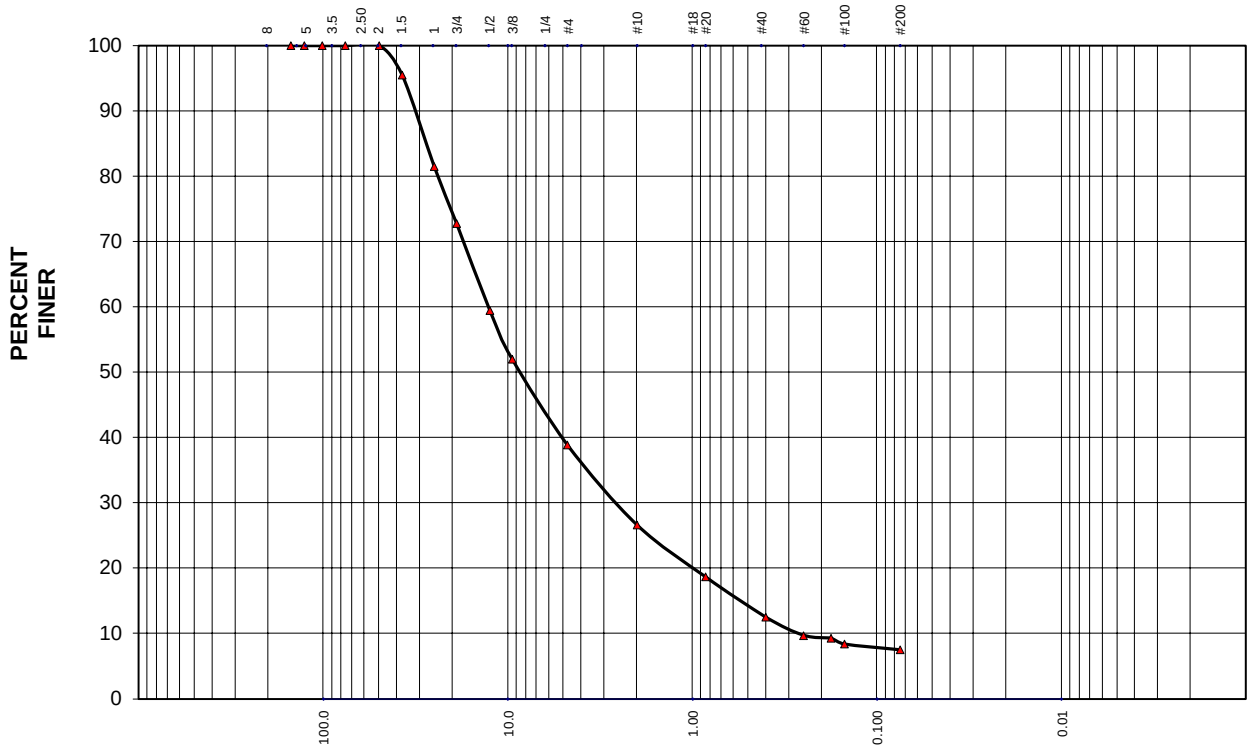
(1) Geosyntec Consultants, Paul Botek

(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	
		39.1	25.3	35.6	Silt (>0.002mm)	Clay (<0.002mm)
0.0	61.1		% Sand	31.4	7.5	

Classification: Item 4 - Sample 21

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"	840.00	96			
25.0	1"	3475.00	81			
19.0	3/4"	5110.00	73			
12.5	1/2"	7600.00	59			
9.5	3/8"	9000.00	52			
4.75	#4	11455.00	39			
2.00	#10	180.56	27			
0.850	#20	297.17	19			
0.400	#40	387.37	13			
0.250	#60	429.00	10			
0.177	#80	435.71	9			
0.150	#100	448.11	8			
0.075	#200	461.27	8			

Total Dry Wt. 18745 g
Split Wt. 571.78 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/13/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit				

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/10/2023

Distribution Page

Report Number: J5211361.0203K
Service Date: 03/03/23
Report Date: 03/14/23
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, Byran York

(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0203N
Service Date: 03/03/23
Report Date: 03/14/23

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 03/03/23
Sampled By: Davut Tuncay
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample #22

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

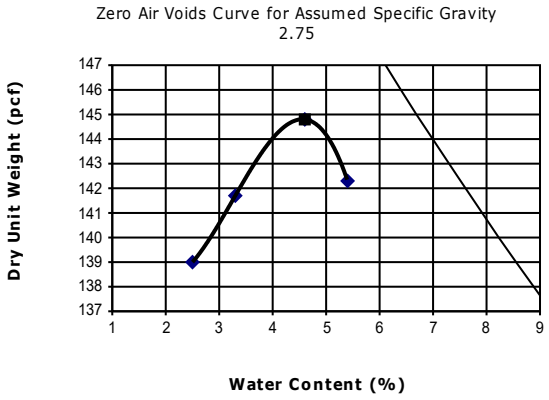
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 31.7
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **144.8**
Optimum Water Content (%): **4.6**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **136.9**
Optimum Water Content (%): **6.5**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0203N
Service Date: 03/03/23
Report Date: 03/14/23
Task:

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Distribution List

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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

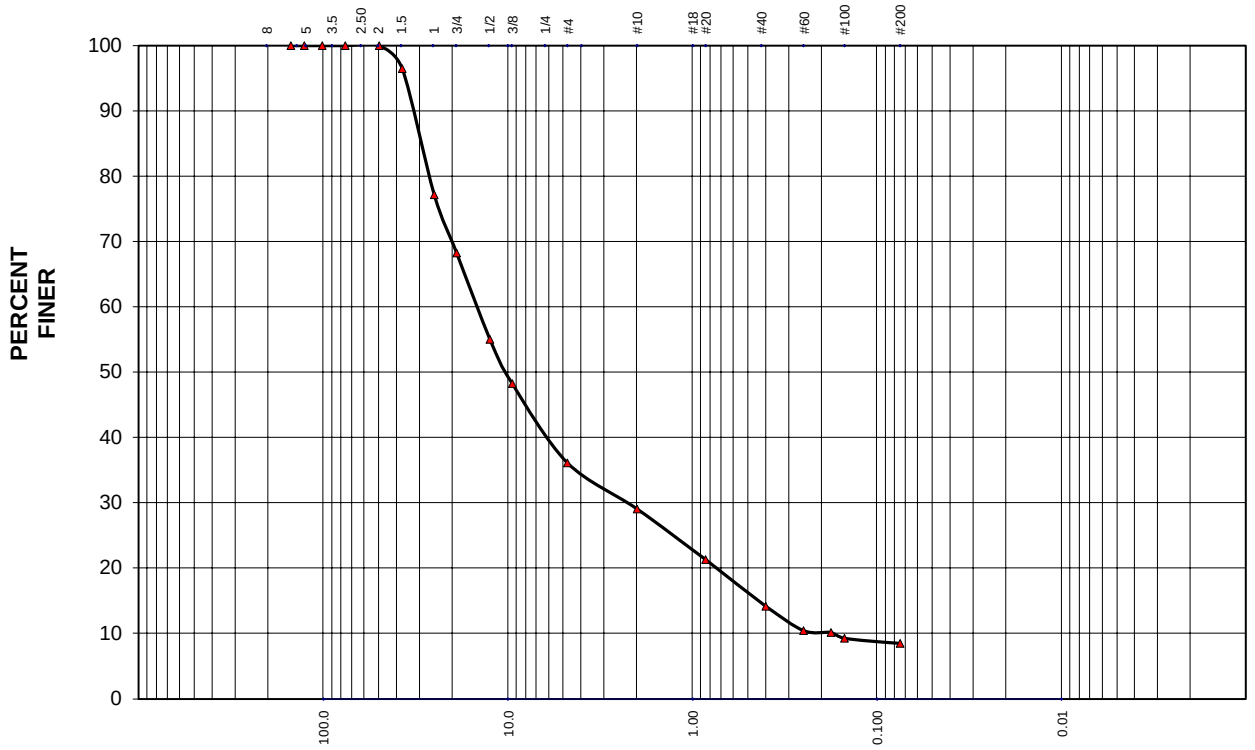
(1) Geosyntec Consultants, Paul Botek

(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	
		25.5	28.1	46.4	Silt (>0.002mm)	Clay (<0.002mm)
0.0	63.9		% Sand	27.7	8.4	

Classification: Item 4 - Sample 22

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"	680.00	97			
25.0	1"	4460.00	77			
19.0	3/4"	6185.00	68			
12.5	1/2"	8775.00	55			
9.5	3/8"	10095.00	48			
4.75	#4	12450.00	36			
2.00	#10	77.12	29			
0.850	#20	162.23	21			
0.400	#40	239.93	14			
0.250	#60	280.59	10			
0.177	#80	284.39	10			
0.150	#100	293.56	9			
0.075	#200	302.58	8			

Total Dry Wt. 19495 g
Split Wt. 394.89 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/13/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit				

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/13/2023

Distribution Page

Report Number: J5211361.0203M
Service Date: 03/03/23
Report Date: 03/14/23
Task:

15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
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Distribution List

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(1) Geosyntec Consultants, Aron Krasnopoler

(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0203P
Service Date: 03/03/23
Report Date: 03/14/23

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 03/03/23
Sampled By: Davut Tuncay
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample #23

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

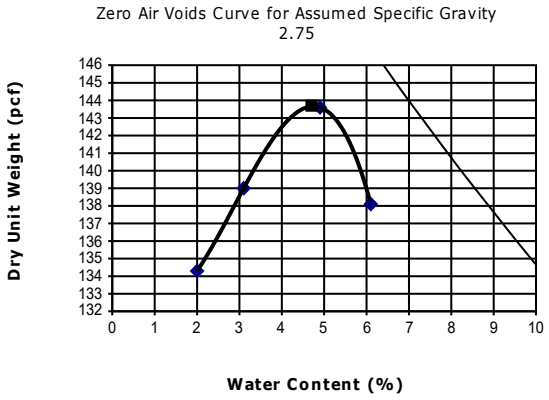
USCS:

Oversized Particles (%): 24.7
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **143.7**
Optimum Water Content (%): **4.7**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **137.7**
Optimum Water Content (%): **6.2**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0203P
Service Date: 03/03/23
Report Date: 03/14/23
Task:

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Distribution List

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(1) Geosyntec Consultants, Aron Krasnopoler

(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

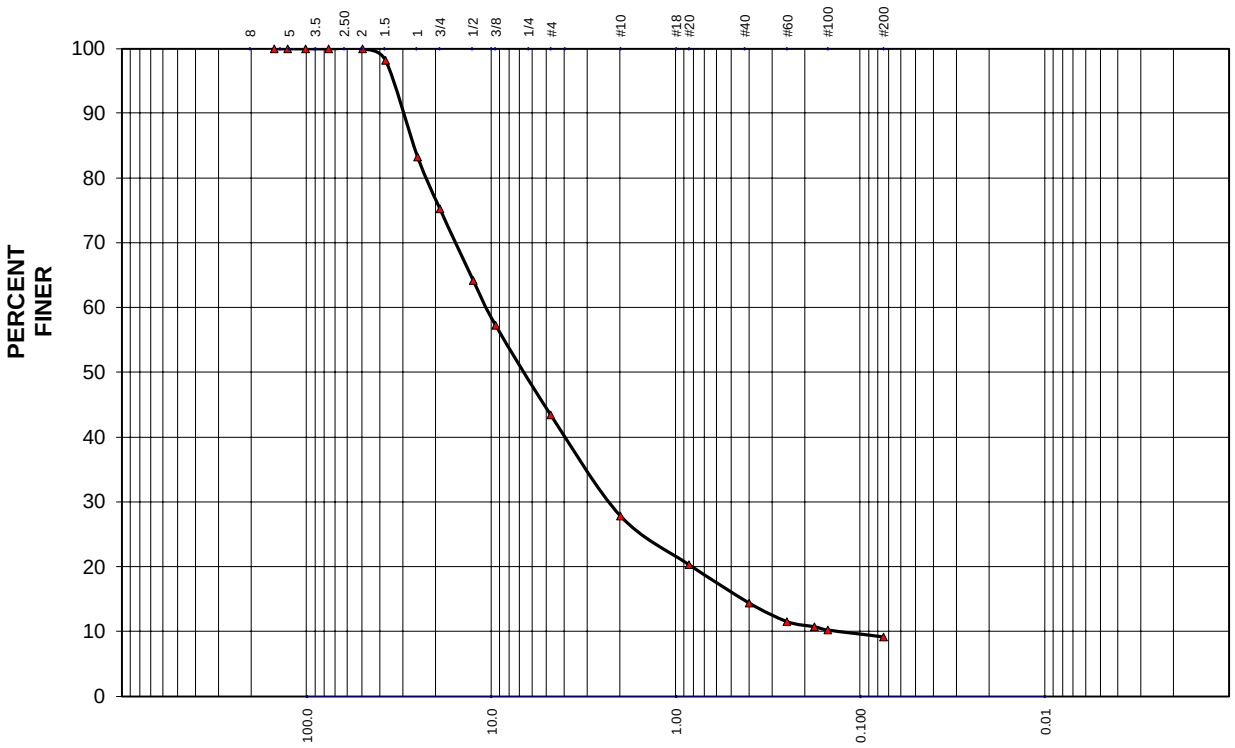
(1) Geosyntec Consultants, Paul Botek

(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	
		45.4	21.9	32.6	Silt (>0.002mm)	Clay (<0.002mm)
0.0	56.6		% Sand	34.2	9.2	

Classification: Item 4 - Sample 23

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"	305.00	98			
25.0	1"	2855.00	83			
19.0	3/4"	4220.00	75			
12.5	1/2"	6110.00	64			
9.5	3/8"	7290.00	57			
4.75	#4	9655.00	43			
2.00	#10	230.74	28			
0.850	#20	342.09	20			
0.400	#40	431.09	14			
0.250	#60	472.60	12			
0.177	#80	485.12	11			
0.150	#100	492.60	10			
0.075	#200	507.92	9			

Total Dry Wt. 17070 g
Split Wt. 645.01 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/13/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit				

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/13/2023

Distribution Page

Report Number: J5211361.0203O
Service Date: 03/03/23
Report Date: 03/20/23 Revision 1 - Revision 1
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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0203R
Service Date: 03/03/23
Report Date: 03/17/23

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 03/03/23
Sampled By:
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 -Sample #24

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

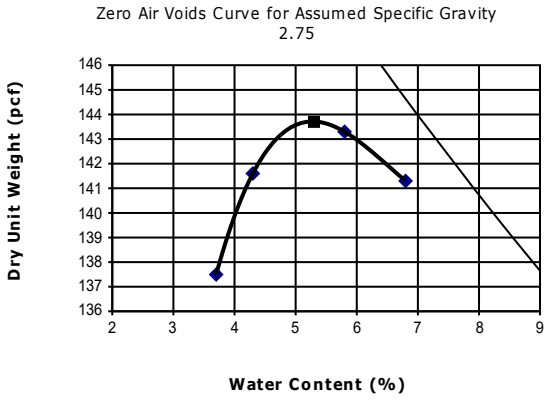
USCS:

Oversized Particles (%): 26.7
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **143.7**
Optimum Water Content (%): **5.3**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **137.1**
Optimum Water Content (%): **7.1**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0203R
Service Date: 03/03/23
Report Date: 03/17/23
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

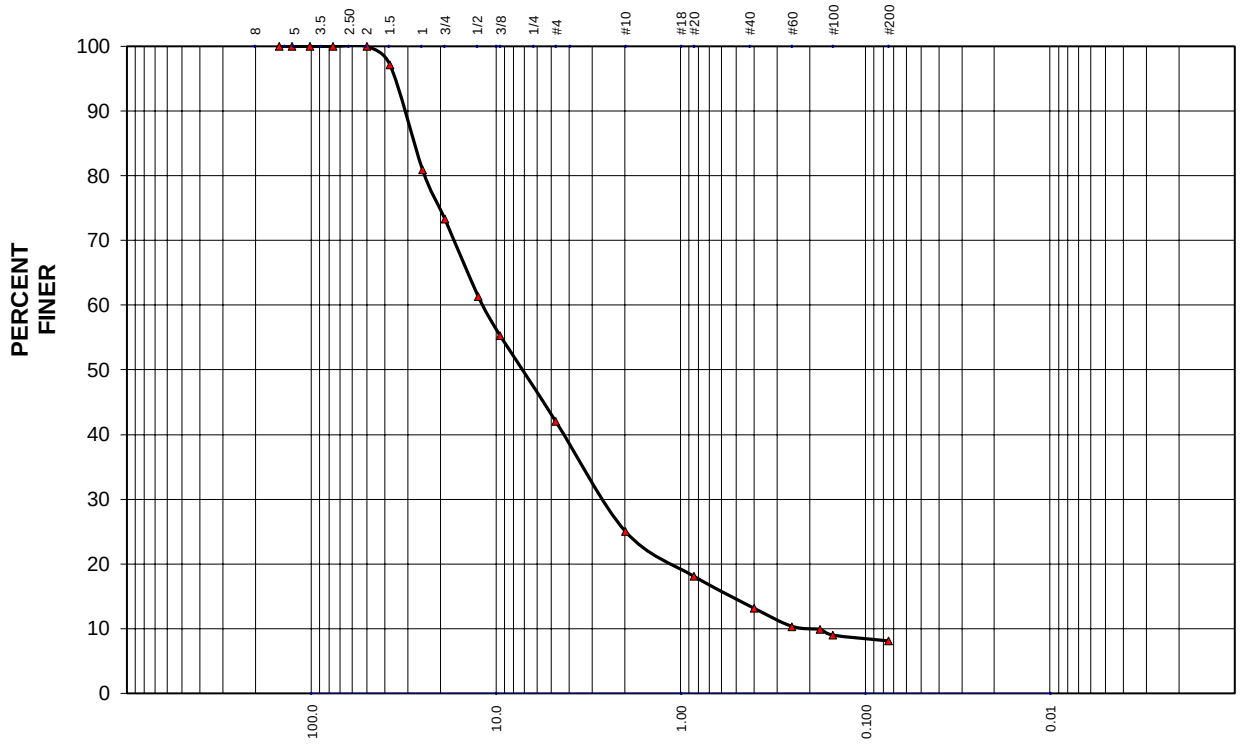
(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

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



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		50.2	20.5	29.3	Silt (>0.002mm)	Clay (<0.002mm)
0.0	57.9		% Sand	33.9	8.2	

Classification: Item 4 - Sample 24

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"	440.00	97			
25.0	1"	2945.00	81			
19.0	3/4"	4130.00	73			
12.5	1/2"	5975.00	61			
9.5	3/8"	6910.00	55			
4.75	#4	8965.00	42			
2.00	#10	225.33	25			
0.850	#20	317.26	18			
0.400	#40	381.78	13			
0.250	#60	419.66	10			
0.177	#80	425.86	10			
0.150	#100	436.86	9			
0.075	#200	448.79	8			

Total Dry Wt. 15475 g
Split Wt. 557 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/17/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit				

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/16/2023

Distribution Page

Report Number: J5211361.0203Q
Service Date: 03/03/23
Report Date: 03/17/23
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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0203T
Service Date: 03/03/23
Report Date: 03/17/23

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 Number: J5211361

Material Information

Source of Material: Brewer Pit
Proposed Use: Structural Fill

Sample Information

Sample Date: 03/03/23
Sampled By: Davut Tuncay
Sample Location: Imported from Brewer Pit

Sample Description: Item 4 - Sample #25

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

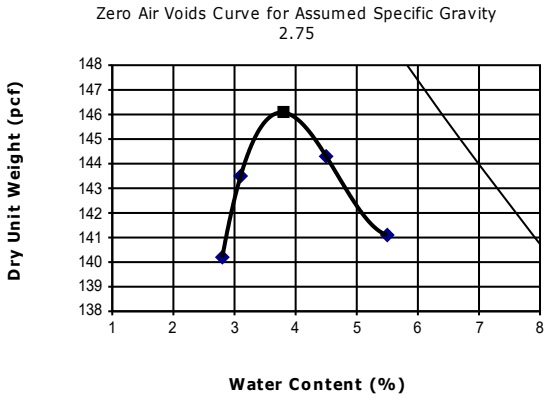
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 34.7
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **146.1**
Optimum Water Content (%): **3.8**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **137.4**
Optimum Water Content (%): **5.6**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0203T
Service Date: 03/03/23
Report Date: 03/17/23
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

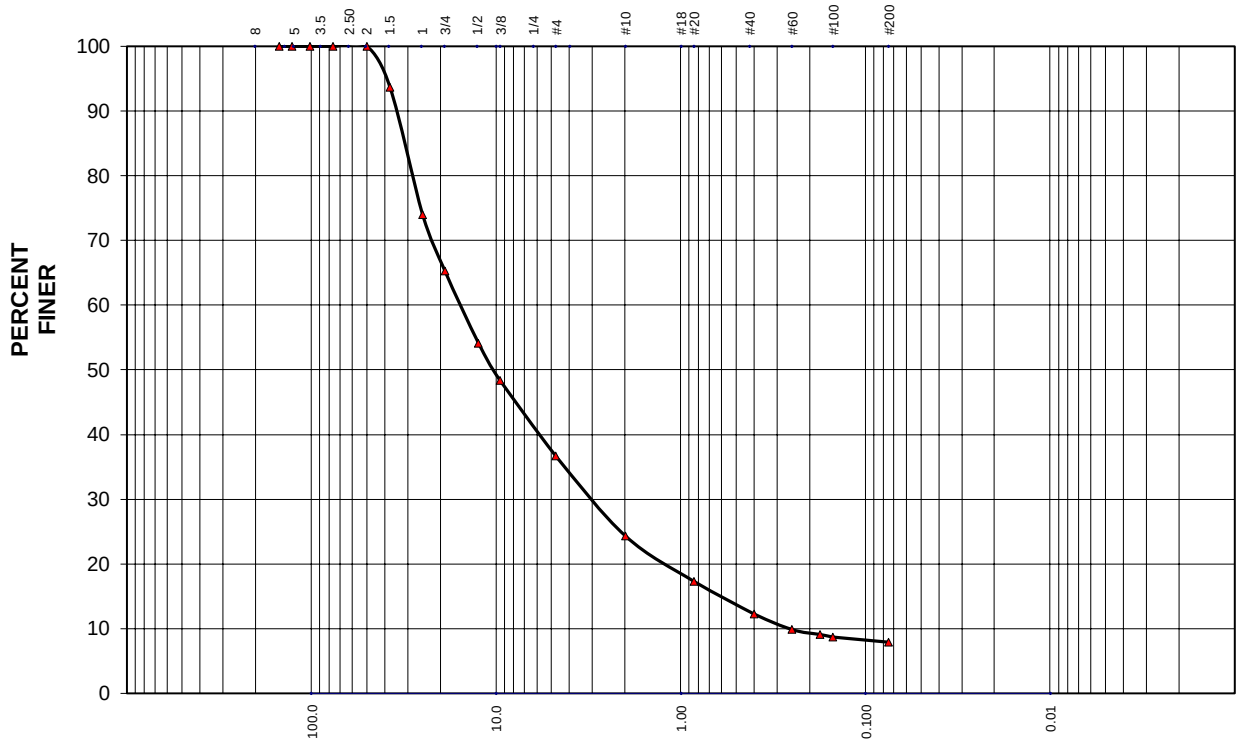
(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

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



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		43.1	24.1	32.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	63.3		% Sand	28.8	8.0	

Classification: Item 4 - Sample 25

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"	1155.00	94			
25.0	1"	4795.00	74			
19.0	3/4"	6410.00	65			
12.5	1/2"	8470.00	54			
9.5	3/8"	9535.00	48			
4.75	#4	11695.00	37			
2.00	#10	146.45	24			
0.850	#20	228.39	17			
0.400	#40	287.89	12			
0.250	#60	316.64	10			
0.177	#80	325.83	9			
0.150	#100	329.96	9			
0.075	#200	339.64	8			

Total Dry Wt. 18490 g
Split Wt. 433.55 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/17/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Brewer Pit				

15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/16/2023

Distribution Page

Report Number: J5211361.0203S
Service Date: 03/03/23
Report Date: 03/17/23
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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0069B
Service Date: 05/09/22
Report Date: 05/13/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 05/09/22
Sampled By: Pete Valenti
Sample Location: Stockpile

Sample Description: #57 Stone mixed with Item 4

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

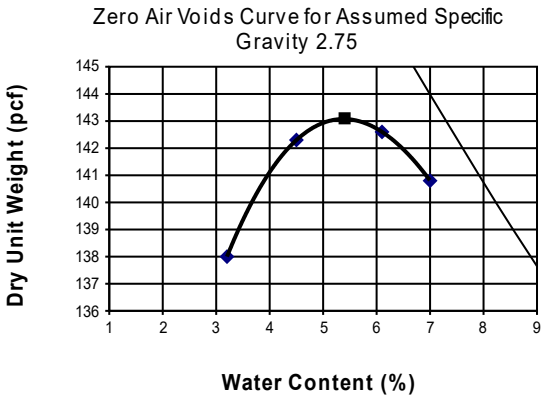
USCS:

Oversized Particles (%): 24.6
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **143.1**
Optimum Water Content (%): **5.4**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **137.0**
Optimum Water Content (%): **6.9**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0069B
Service Date: 05/09/22
Report Date: 05/13/22
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

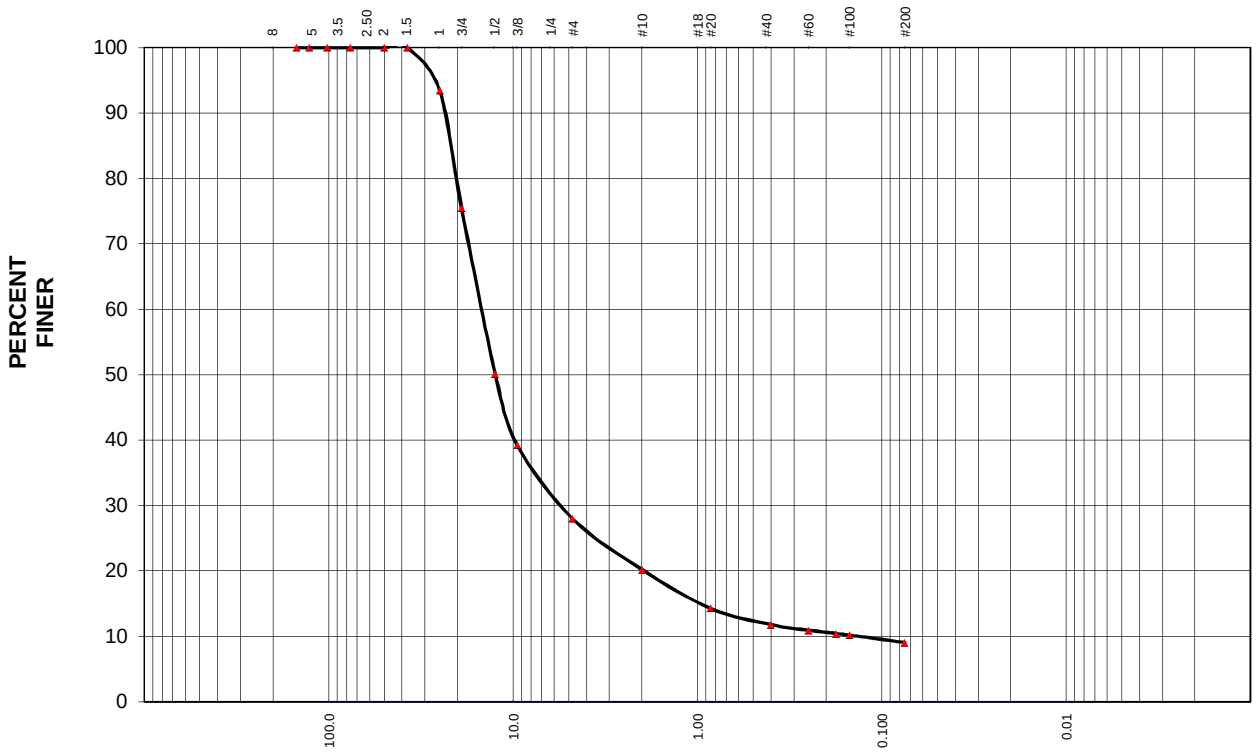
(1) Geosyntec Consultants, Paul Botek

(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	
		41.0	31.4	27.6	Silt (>0.002mm)	Clay (<0.002mm)
0.0	72.0		% Sand	18.9	9.1	

Classification: Mixture of #57 Stone and Item 4

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"	1020.00	93			
19.0	3/4"	3810.00	75			
12.5	1/2"	7735.00	50			
9.5	3/8"	9425.00	39			
4.75	#4	11175.00	28			
2.00	#10	216.16	20			
0.850	#20	381.60	14			
0.400	#40	450.60	12			
0.250	#60	474.75	11			
0.177	#80	488.45	10			
0.150	#100	495.62	10			
0.075	#200	527.37	9			

Total Dry Wt.	15515	g
Split Wt.	779.68	g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**5/12/2022**
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: P. Valenti Date: 5/12/2022

Distribution Page

Report Number: J5211361.0069A
Service Date: 05/09/22
Report Date: 05/13/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0081B
Service Date: 05/23/22
Report Date: 05/24/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 05/23/22
Sampled By: Pete Valenti
Sample Location: Stockpile

Sample Description: Item 4 mixed with #57 Stone

Laboratory Test Data

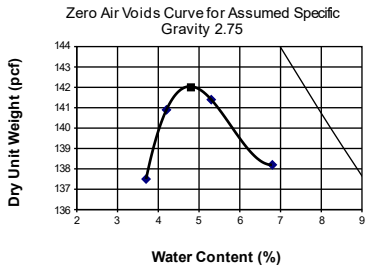
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

USCS:

Oversized Particles (%): 37.2
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65



Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): 142.0
Optimum Water Content (%): 4.8

Uncorrected Values
Maximum Dry Unit Weight (pcf): 131.1
Optimum Water Content (%): 7.3

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:
Report Distribution:

See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0081B
Service Date: 05/23/22
Report Date: 05/24/22
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

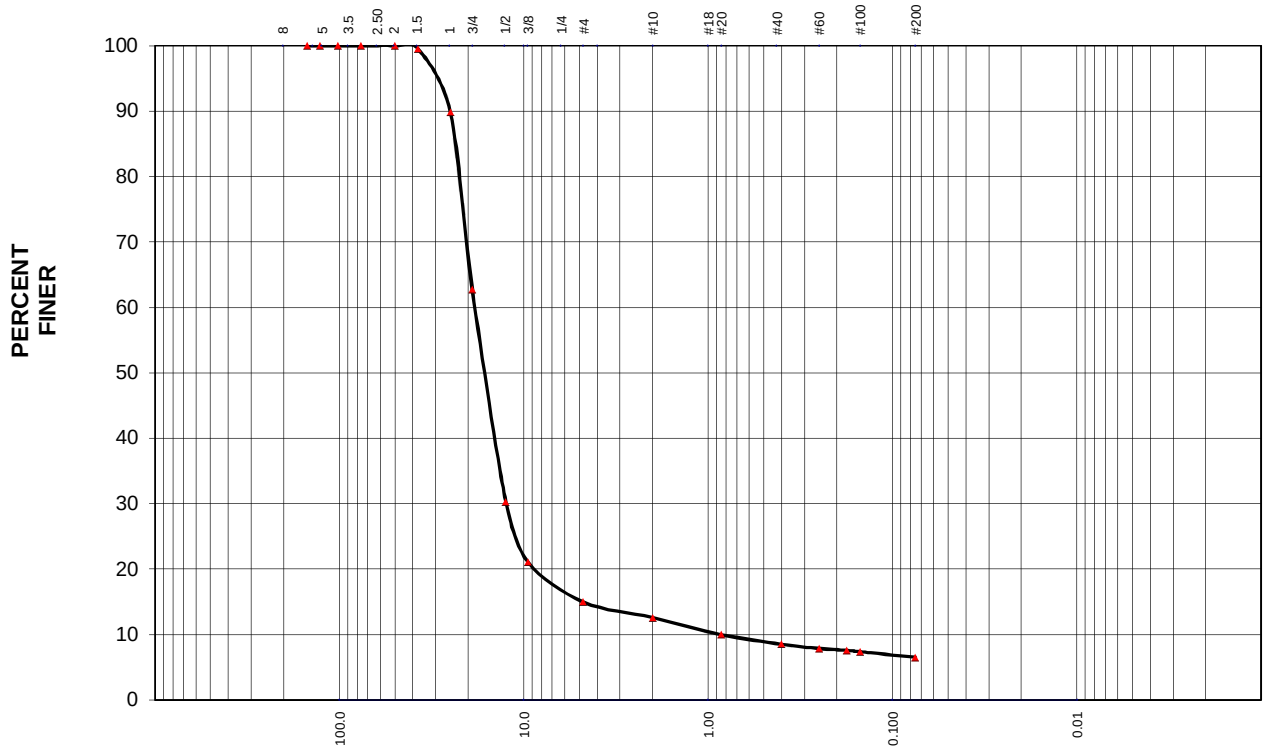
(1) Geosyntec Consultants, Paul Botek

(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	
		28.4	30.4	41.2	Silt (>0.002mm)	Clay (<0.002mm)
0.0	85.0	% Sand		8.5	6.5	

Classification: Imported - Item 4 mixed with #57 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"	60.00	99.5			
25.0	1"	1350.00	90			
19.0	3/4"	4955.00	63			
12.5	1/2"	9280.00	30			
9.5	3/8"	10505.00	21			
4.75	#4	11320.00	15			
2.00	#10	49.53	13			
0.850	#20	102.64	10			
0.400	#40	132.99	9			
0.250	#60	146.65	8			
0.177	#80	152.53	8			
0.150	#100	156.39	7			
0.075	#200	174.46	7			

Total Dry Wt. 13315 g
Split Wt. 308.29 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**5/24/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #38A			

15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 5/24/2022

Distribution Page

Report Number: J5211361.0081A
Service Date: 05/23/22
Report Date: 05/24/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0047B
Service Date: 04/08/22
Report Date: 04/11/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 04/08/22
Sampled By: Pete Valenti
Sample Location: Stockpile

Sample Description: PENNDOT Approved Material

Laboratory Test Data

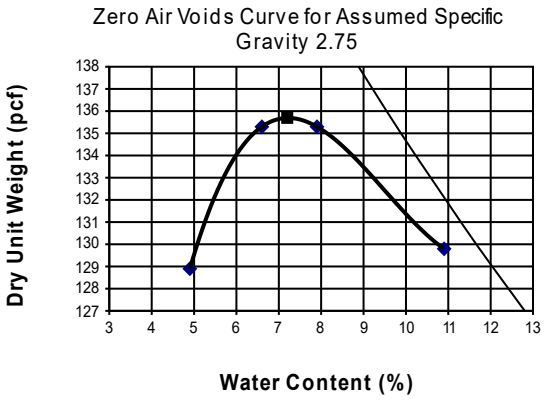
	Result	Specifications
Test Procedure:	ASTM D698	
Test Method:	Method C	
Sample Preparation:	Wet	
Rammer Type:	Mechanical	
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		
Oversized Particles (%):	11.2	
Moisture (%):	0.5	
Sieve for Oversize Fraction:	3/4	
Assumed Bulk Specific Gravity of Oversized Particles:	2.65	

Corrected for Oversized Particles (ASTM D4718)

Maximum Dry Unit Weight (pcf):	**135.7**
Optimum Water Content (%):	**7.2**

Uncorrected Values

Maximum Dry Unit Weight (pcf):	**132.7**
Optimum Water Content (%):	**8.1**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris
(1) Geosyntec Consultants, Colin Lamas

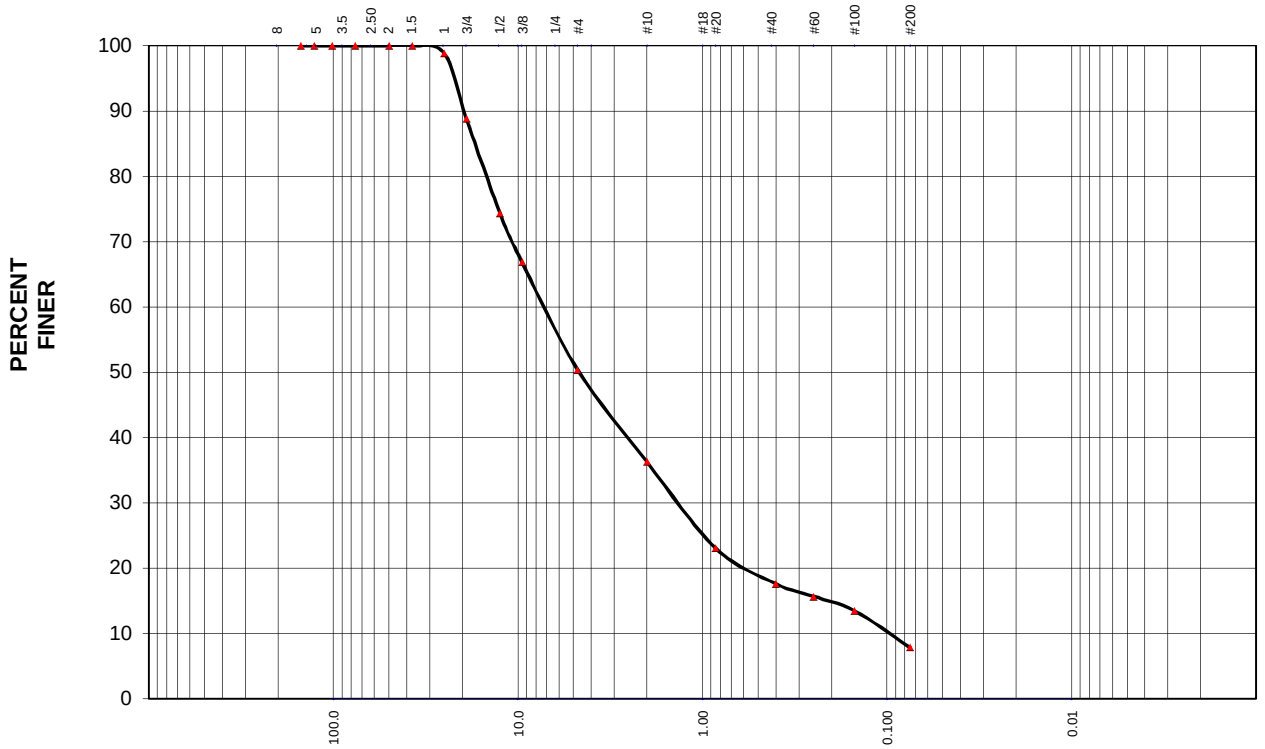
Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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	
		33.1	31.0	35.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	49.6		% Sand	42.5	7.9	

Classification: Imported - PENNDOT Approved Material

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"	310.00	99			
19.0	3/4"	2875.00	89			
12.5	1/2"	6585.00	74			
9.5	3/8"	8495.00	67			
4.75	#4	12715.00	50			
2.00	#10	155.60	36			
0.850	#20	301.35	23			
0.400	#40	361.64	18			
0.250	#60	383.08	16			
0.150	#100	407.43	13			
0.075	#200	469.52	8			

Total Dry Wt. 25620 g
Split Wt. 556.26 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**4/11/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrencville Quarry				

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 4/11/2022

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0049B
Service Date: 04/12/22
Report Date: 04/14/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 04/12/22
Sampled By: Pete Valenti
Sample Location: Stockpile

Sample Description: PENNDOT Approved Material, Sample #2

Laboratory Test Data

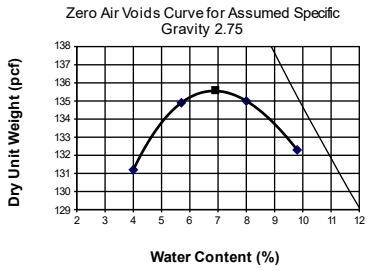
Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

USCS:

Oversized Particles (%): 11.0
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65



Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **135.6**
Optimum Water Content (%): **6.9**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **132.6**
Optimum Water Content (%): **7.6**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

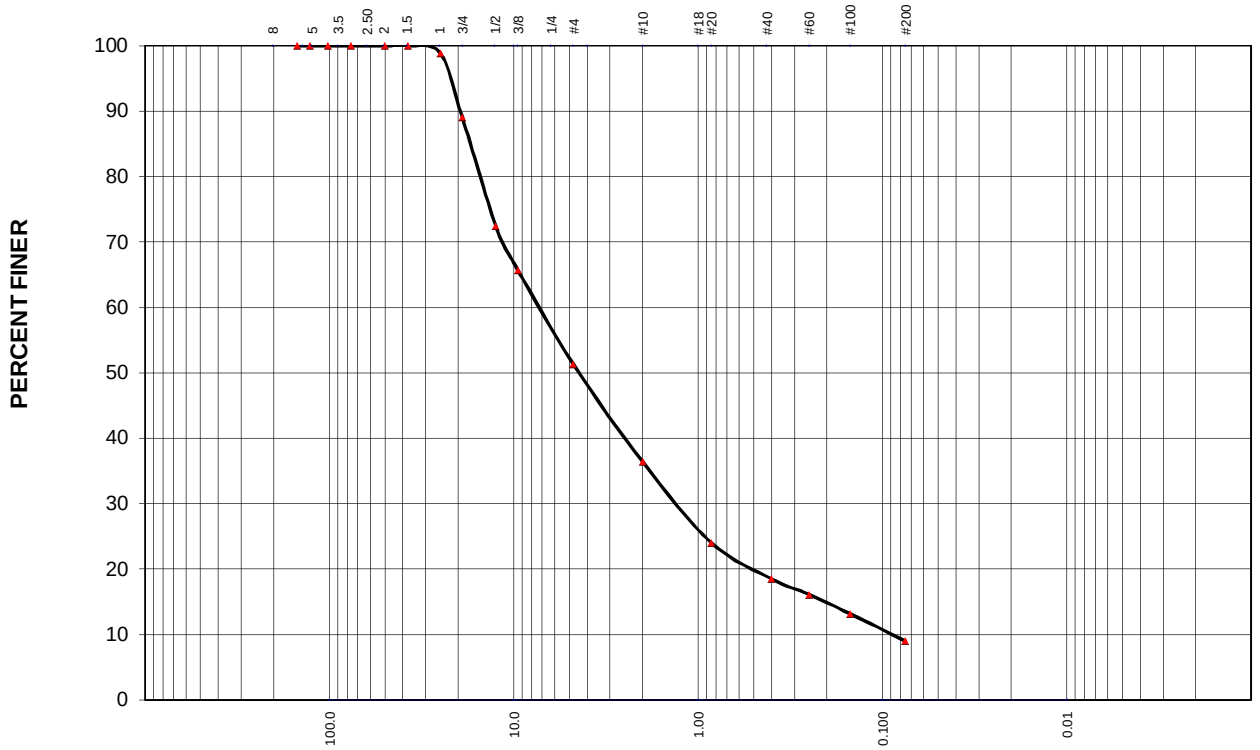
(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris
(1) Geosyntec Consultants, Colin Lamas
(1) Geosyntec Consultants, Paul Botek
(1) Geosyntec Consultants, Paul Brookner
(1) Geosyntec Consultants, Tom Ramsey
(1) Geosyntec Consultants, William Steier

Reviewed By: Kyle P. Lemcke
Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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	
		35.3	29.2	35.5	Silt (>0.002mm)	Clay (<0.002mm)
0.0	48.7		% Sand	42.3	9.0	

Classification: Imported - PENNDOT Approved Material

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"	265.00	99			
19.0	3/4"	2540.00	89			
12.5	1/2"	6385.00	72			
9.5	3/8"	7950.00	66			
4.75	#4	11285.00	51			
2.00	#10	168.14	36			
0.850	#20	307.54	24			
0.400	#40	369.81	19			
0.250	#60	396.79	16			
0.150	#100	429.85	13			
0.075	#200	476.91	9			

Total Dry Wt. 23195 g
Split Wt. 578.43 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**4/14/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #2			

15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 4/14/2022

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0049D
Service Date: 04/12/22
Report Date: 04/16/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 04/12/22
Sampled By: Pete Valenti
Sample Location: Stockpile

Sample Description: PENNDOT Approved Material, Sample #3

Laboratory Test Data

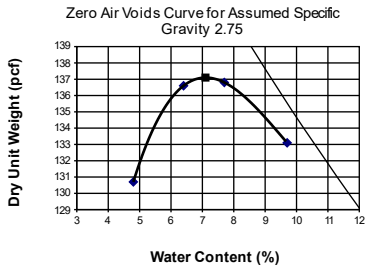
Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

USCS:

Oversized Particles (%): 12.0
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65



Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **137.1**
Optimum Water Content (%): **7.1**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.9**
Optimum Water Content (%): **8.0**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris
(1) Geosyntec Consultants, Colin Lamas
(1) Geosyntec Consultants, Paul Botek
(1) Geosyntec Consultants, Paul Brookner
(1) Geosyntec Consultants, Tom Ramsey
(1) Geosyntec Consultants, William Steier

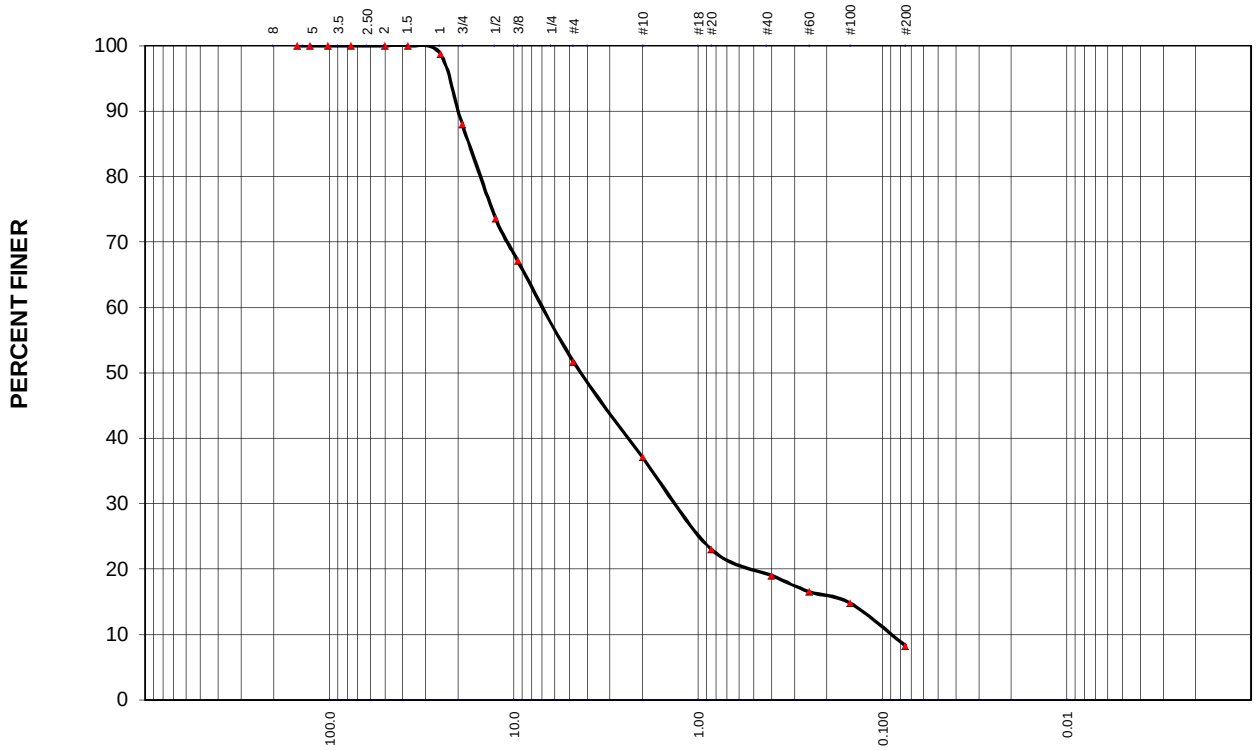
Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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	
		33.7	32.3	34.0	Silt (>0.002mm)	Clay (<0.002mm)
0.0	48.3		% Sand	43.4	8.3	

Classification: Imported - PENNDOT Approved Material

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"	325.00	99			
19.0	3/4"	3140.00	88			
12.5	1/2"	6920.00	74			
9.5	3/8"	8605.00	67			
4.75	#4	12650.00	52			
2.00	#10	164.35	37			
0.850	#20	321.82	23			
0.400	#40	366.85	19			
0.250	#60	394.68	17			
0.150	#100	414.17	15			
0.075	#200	487.29	8			

Total Dry Wt. 26200 g
Split Wt. 580.45 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**4/16/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #3			

15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 4/15/2022

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0049F
Service Date: 04/12/22
Report Date: 04/19/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Strucutral Fill

Sample Information

Sample Date: 04/12/22
Sampled By: Pete Valenti
Sample Location: Stockpile

Sample Description: PENNDOT Approved Material, Sample 4

Laboratory Test Data

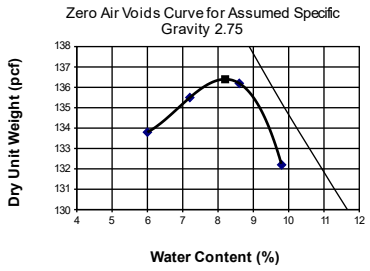
Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

USCS:

Oversized Particles (%): 16.8
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65



Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **136.4**
Optimum Water Content (%): **8.2**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **131.7**
Optimum Water Content (%): **9.8**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris
(1) Geosyntec Consultants, Colin Lamas
(1) Geosyntec Consultants, Paul Botek
(1) Geosyntec Consultants, Paul Brookner
(1) Geosyntec Consultants, Tom Ramsey
(1) Geosyntec Consultants, William Steier

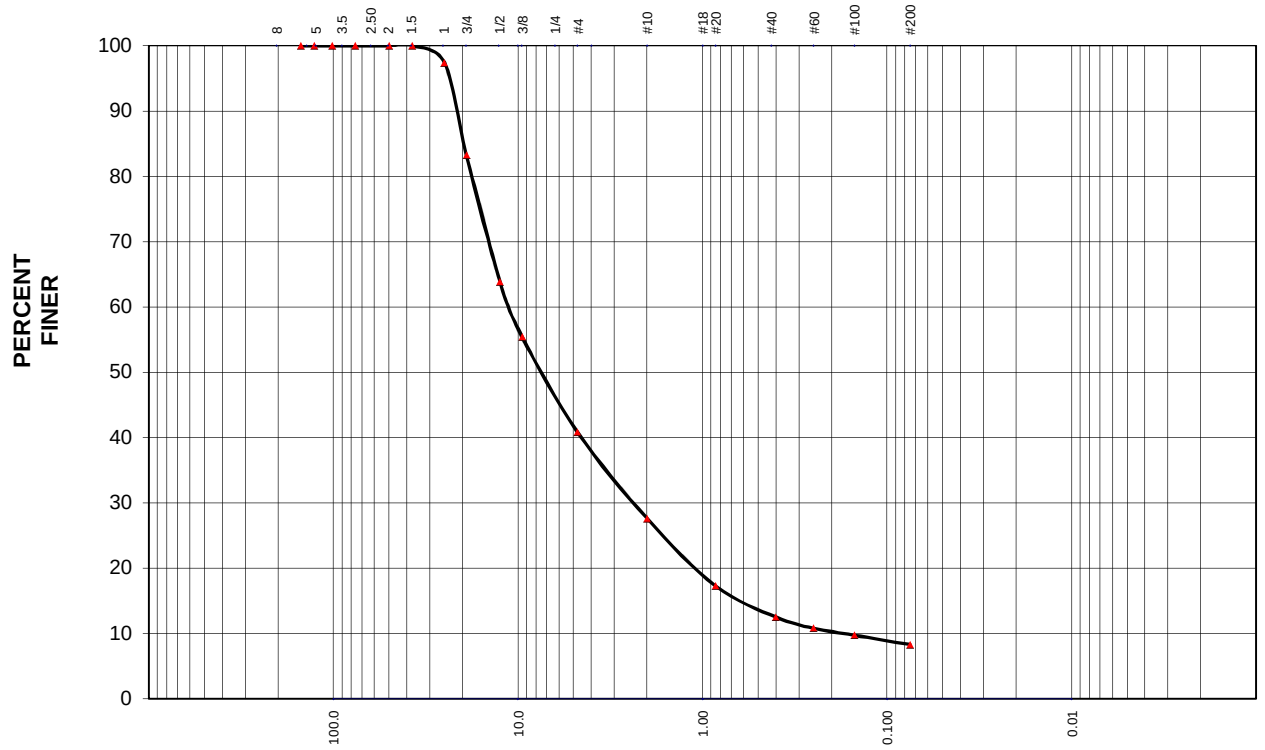
Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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	
		40.5	31.9	27.6	Silt (>0.002mm)	Clay (<0.002mm)
0.0	59.2		% Sand	32.5	8.3	

Classification: Imported - PENNDOT Approved Material

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"	375.00	97			
19.0	3/4"	2395.00	83			
12.5	1/2"	5170.00	64			
9.5	3/8"	6365.00	55			
4.75	#4	8455.00	41			
2.00	#10	247.74	28			
0.850	#20	443.04	17			
0.400	#40	532.29	13			
0.250	#60	564.80	11			
0.150	#100	585.23	10			
0.075	#200	611.94	8			

Total Dry Wt. 14280 g
Split Wt. 768.39 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**4/19/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #4			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 4/18/2022

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0049H
Service Date: 04/12/22
Report Date: 04/20/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 04/12/22
Sampled By: Pete Valenti
Sample Location: Stockpile

Sample Description: PENNDOT Approved Material

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

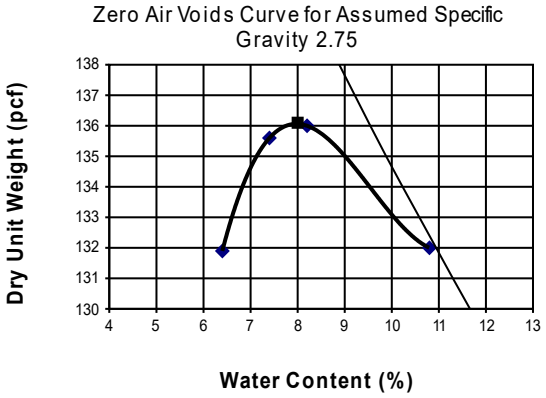
USCS:

Oversized Particles (%): 10.7
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **136.1**
Optimum Water Content (%): **8.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.2**
Optimum Water Content (%): **8.9**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris
(1) Geosyntec Consultants, Colin Lamas
(1) Geosyntec Consultants, Paul Botek
(1) Geosyntec Consultants, Paul Brookner
(1) Geosyntec Consultants, Tom Ramsey
(1) Geosyntec Consultants, William Steier

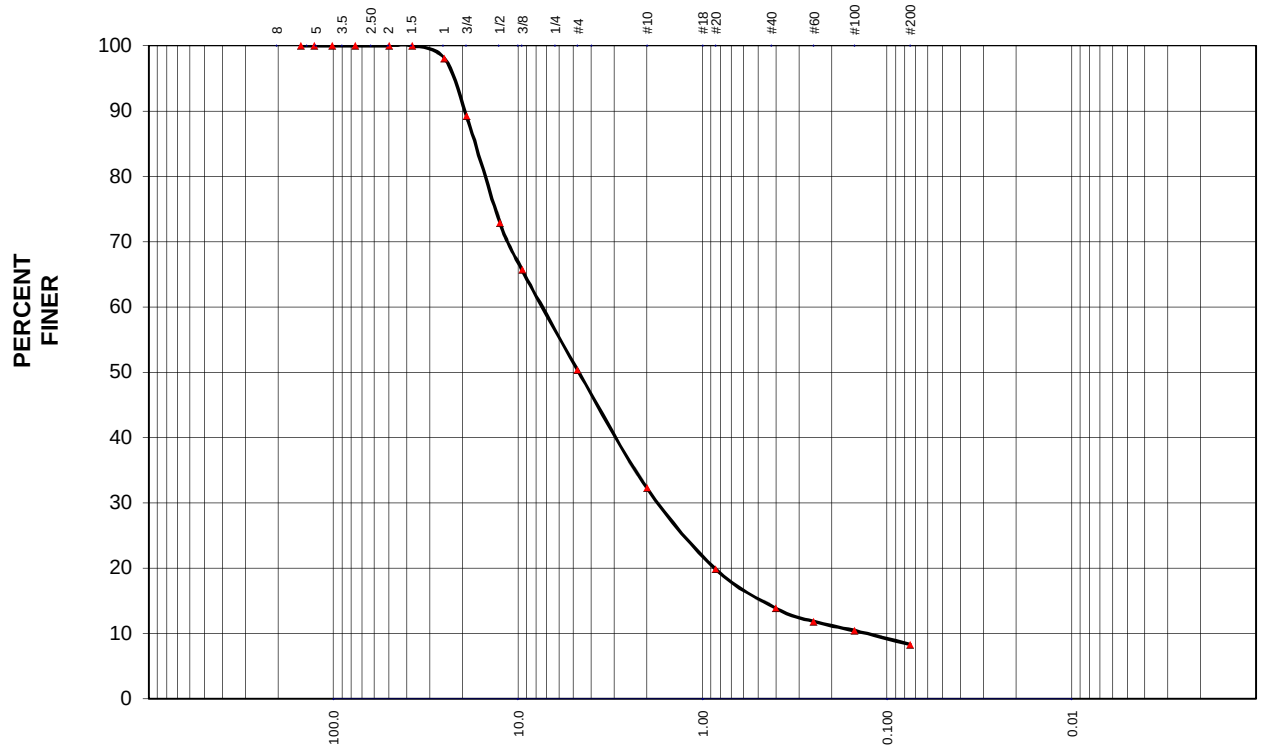
Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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	
		43.0	29.6	27.5	Silt (>0.002mm)	Clay (<0.002mm)
0.0	49.7		% Sand	42.0	8.3	

Classification: Imported - PENNDOT Approved Material

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"	280.00	98			
19.0	3/4"	1555.00	89			
12.5	1/2"	3930.00	73			
9.5	3/8"	4970.00	66			
4.75	#4	7190.00	50			
2.00	#10	450.03	32			
0.850	#20	759.44	20			
0.400	#40	908.66	14			
0.250	#60	959.83	12			
0.150	#100	994.31	10			
0.075	#200	1046.94	8			

Total Dry Wt. 14475 g
Split Wt. 1254.69 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**4/19/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #5			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 4/18/2022

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0049J
Service Date: 04/12/22
Report Date: 04/20/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 04/12/22
Sampled By: Pete Valenti
Sample Location: Stockpile

Sample Description: PENNDOT Approved Material

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

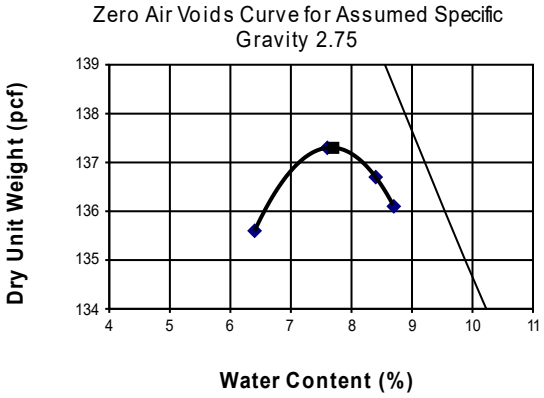
USCS:

Oversized Particles (%): 15.5
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **137.3**
Optimum Water Content (%): **7.7**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.2**
Optimum Water Content (%): **9.1**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris
(1) Geosyntec Consultants, Colin Lamas
(1) Geosyntec Consultants, Paul Botek
(1) Geosyntec Consultants, Paul Brookner
(1) Geosyntec Consultants, Tom Ramsey
(1) Geosyntec Consultants, William Steier

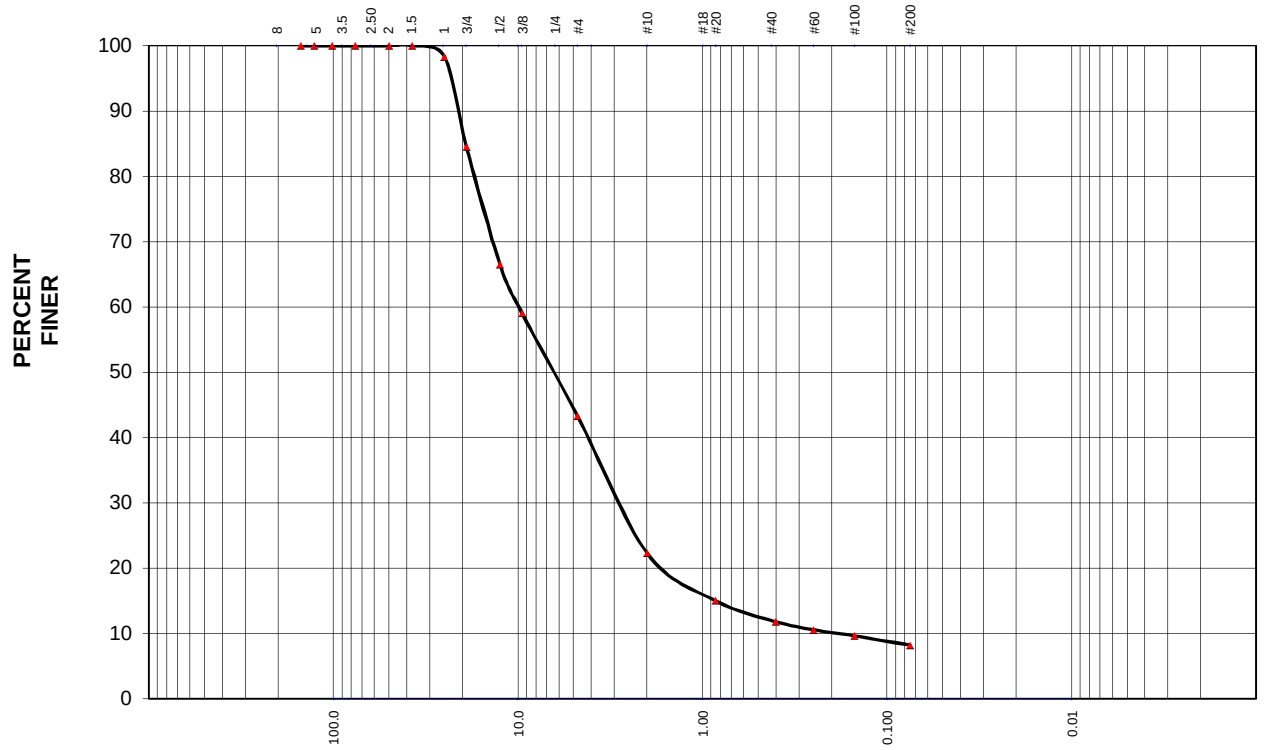
Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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	
		59.7	20.9	19.4	Silt (>0.002mm)	Clay (<0.002mm)
0.0	56.7		% Sand	35.1	8.2	

Classification: Imported - PENNDOT Approved Material

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"	235.00	98			
19.0	3/4"	2105.00	85			
12.5	1/2"	4565.00	66			
9.5	3/8"	5575.00	59			
4.75	#4	7720.00	43			
2.00	#10	604.17	22			
0.850	#20	815.57	15			
0.400	#40	907.99	12			
0.250	#60	943.31	11			
0.150	#100	970.35	10			
0.075	#200	1011.89	8			

Total Dry Wt. 13610 g
Split Wt. 1248.62 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**4/20/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #6			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 4/18/2022

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0049L
Service Date: 04/12/22
Report Date: 04/26/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 04/12/22
Sampled By: William Jablonski
Sample Location: Stockpile

Sample Description: PENNDOT Approved Material, Sample 7

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

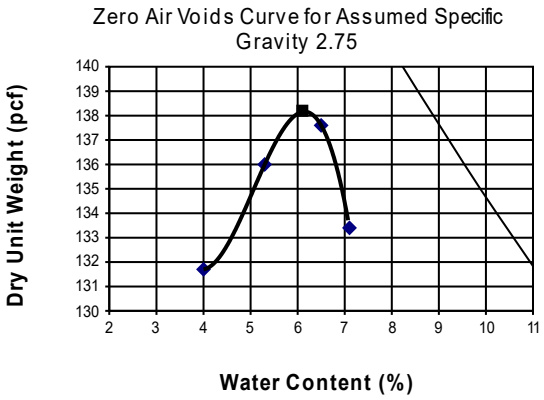
USCS:

Oversized Particles (%): 16.4
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.2**
Optimum Water Content (%): **6.1**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.9**
Optimum Water Content (%): **7.2**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris
(1) Geosyntec Consultants, Colin Lamas
(1) Geosyntec Consultants, Paul Botek
(1) Geosyntec Consultants, Paul Brookner
(1) Geosyntec Consultants, Tom Ramsey
(1) Geosyntec Consultants, William Steier

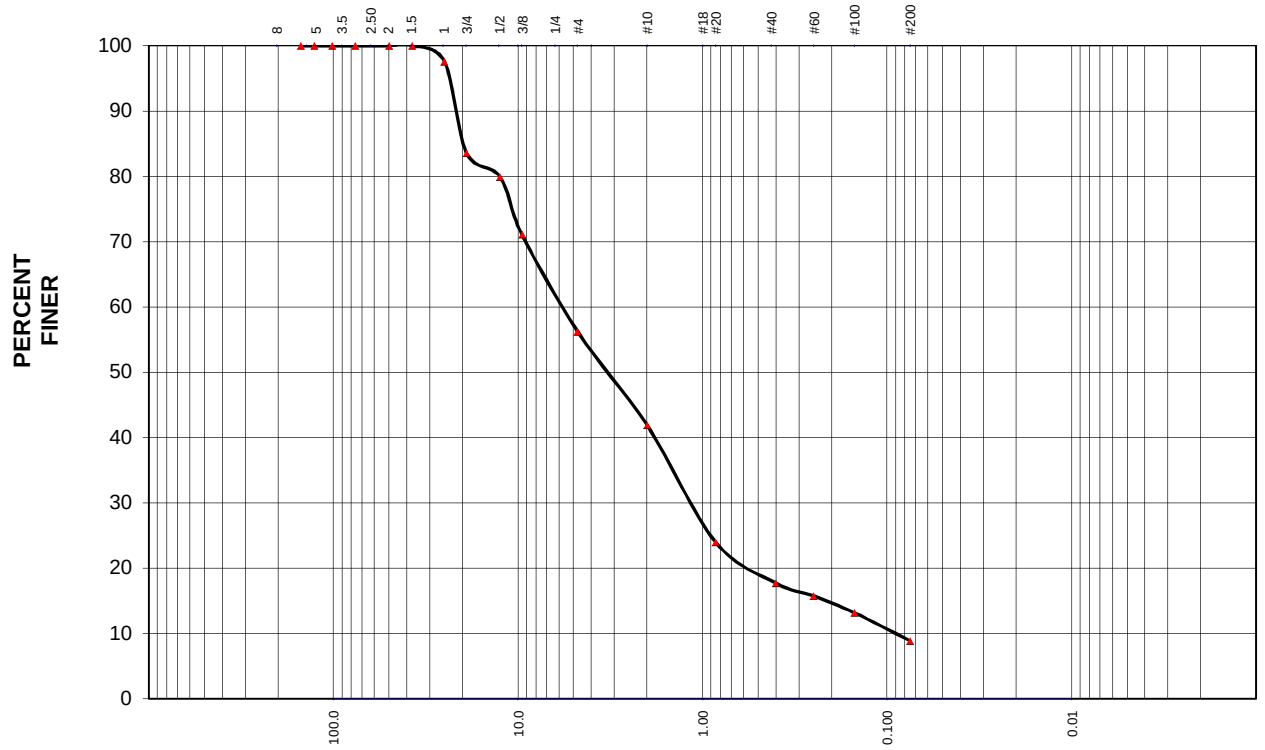
Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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	
		30.2	37.8	32.0	Silt (>0.002mm)	Clay (<0.002mm)
0.0	43.8		% Sand	47.3	8.9	

Classification: Imported - PENNDOT Approved Material

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"	520.00	98			
19.0	3/4"	3500.00	84			
12.5	1/2"	4280.00	80			
9.5	3/8"	6160.00	71			
4.75	#4	9325.00	56			
2.00	#10	104.35	42			
0.850	#20	234.88	24			
0.400	#40	280.79	18			
0.250	#60	294.97	16			
0.150	#100	313.97	13			
0.075	#200	345.19	9			

Total Dry Wt. 21300 g
Split Wt. 410.02 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**4/25/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #7			

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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0049N
Service Date: 04/12/22
Report Date: 04/26/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 04/12/22
Sampled By: William Jablonski
Sample Location: Stockpile

Sample Description: PENNDOT Approved Material, Sample #8

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

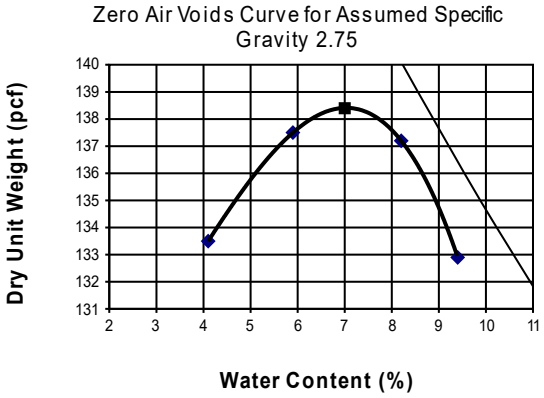
USCS:

Oversized Particles (%): 10.0
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.4**
Optimum Water Content (%): **7.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.8**
Optimum Water Content (%): **7.7**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris
(1) Geosyntec Consultants, Colin Lamas
(1) Geosyntec Consultants, Paul Botek
(1) Geosyntec Consultants, Paul Brookner
(1) Geosyntec Consultants, Tom Ramsey
(1) Geosyntec Consultants, William Steier

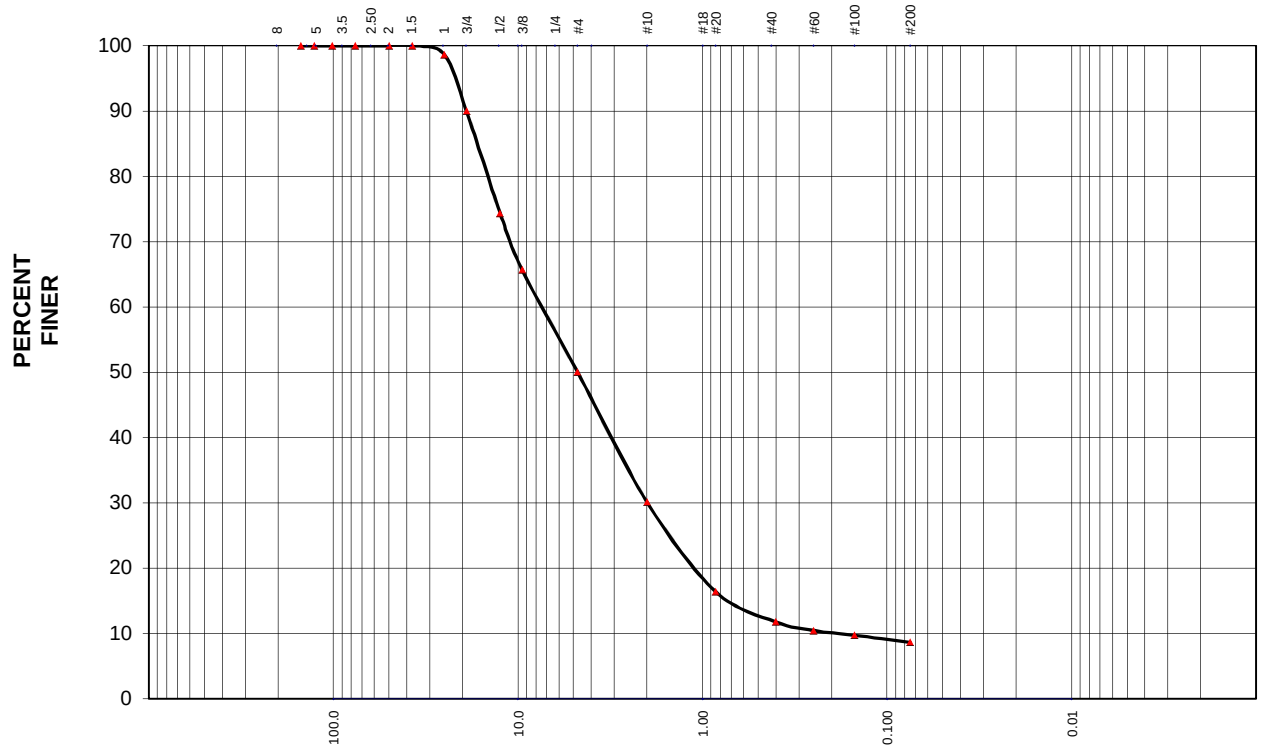
Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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	
		48.0	33.1	18.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	50.0		% Sand	41.4	8.6	

Classification: Imported - PENNDOT Approved Material

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"	250.00	99			
19.0	3/4"	1825.00	90			
12.5	1/2"	4660.00	74			
9.5	3/8"	6235.00	66			
4.75	#4	9090.00	50			
2.00	#10	183.37	30			
0.850	#20	309.94	16			
0.400	#40	352.89	12			
0.250	#60	365.13	10			
0.150	#100	371.82	10			
0.075	#200	381.83	9			

Total Dry Wt. 18185 g
Split Wt. 461.58 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**4/26/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #8			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 4/22/2022

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0049R
Service Date: 04/12/22
Report Date: 04/26/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 04/12/22
Sampled By: William Jablonski
Sample Location: Stockpile

Sample Description: PENNDOT Approved Material, Sample #10

Laboratory Test Data

Test Procedure: ASTM D1557
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

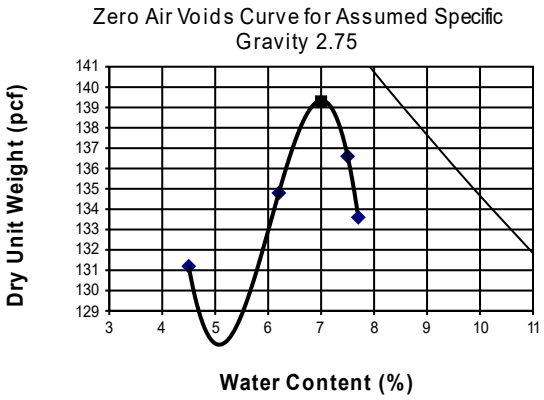
USCS:

Oversized Particles (%): 14.6
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **139.3**
Optimum Water Content (%): **7.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **136.3**
Optimum Water Content (%): **8.1**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris
(1) Geosyntec Consultants, Colin Lamas
(1) Geosyntec Consultants, Paul Botek
(1) Geosyntec Consultants, Paul Brookner
(1) Geosyntec Consultants, Tom Ramsey
(1) Geosyntec Consultants, William Steier

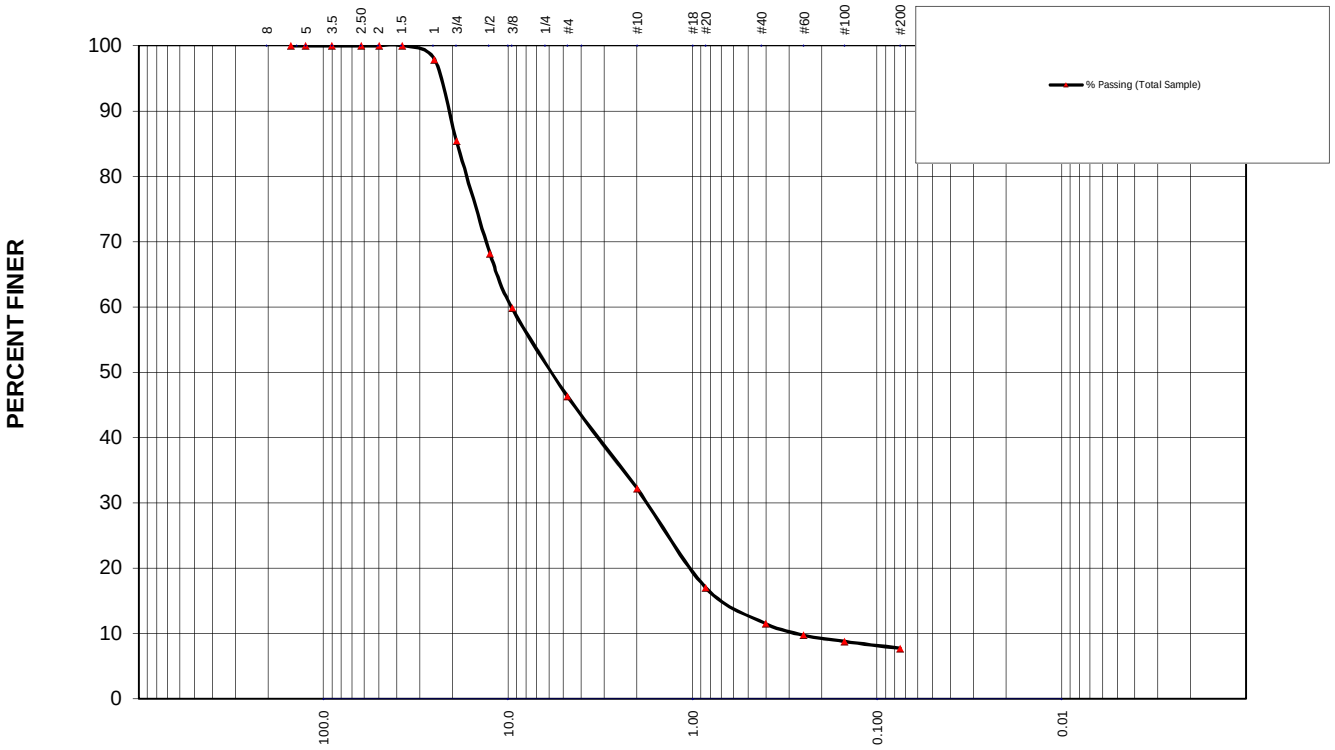
Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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	
		36.5	39.4	24.1	Silt (>0.002mm)	Clay (<0.002mm)
0.0	53.7		% Sand	38.6	7.7	

Classification: Imported - PENNDOT Approved Material

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			
125.0	5"	0.00	100			
90.0	3.5"	0.00	100			
62.5	2.5"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	290.00	98			
19.0	3/4"	1970.00	85			
12.5	1/2"	4310.00	68			
9.5	3/8"	5435.00	60			
4.75	#4	178.81	46			
2.00	#10	364.60	32			
0.850	#20	564.95	17			
0.400	#40	637.79	12			
0.250	#60	661.08	10			
0.150	#100	674.03	9			
0.075	#200	687.80	8			

Total Dry Wt. 13530 g
Split Wt. 789.82 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**4/26/2022**
City:	Elmira, New York	Specification:	ASTM C136		
Source:	Lawrenceville Quarry	Sample #10			

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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0049T
Service Date: 04/12/22
Report Date: 04/26/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 04/12/22
Sampled By: William Jablonski
Sample Location: Stockpile

Sample Description: PENNDOT Approved Material, Sample #11

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

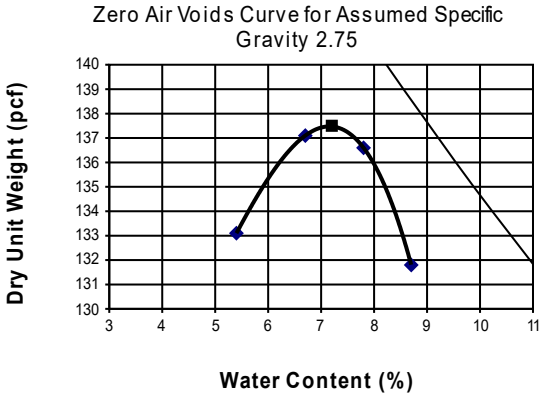
USCS:

Oversized Particles (%): 10.2
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **137.5**
Optimum Water Content (%): **7.2**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.9**
Optimum Water Content (%): **7.9**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris
(1) Geosyntec Consultants, Colin Lamas
(1) Geosyntec Consultants, Paul Botek
(1) Geosyntec Consultants, Paul Brookner
(1) Geosyntec Consultants, Tom Ramsey
(1) Geosyntec Consultants, William Steier

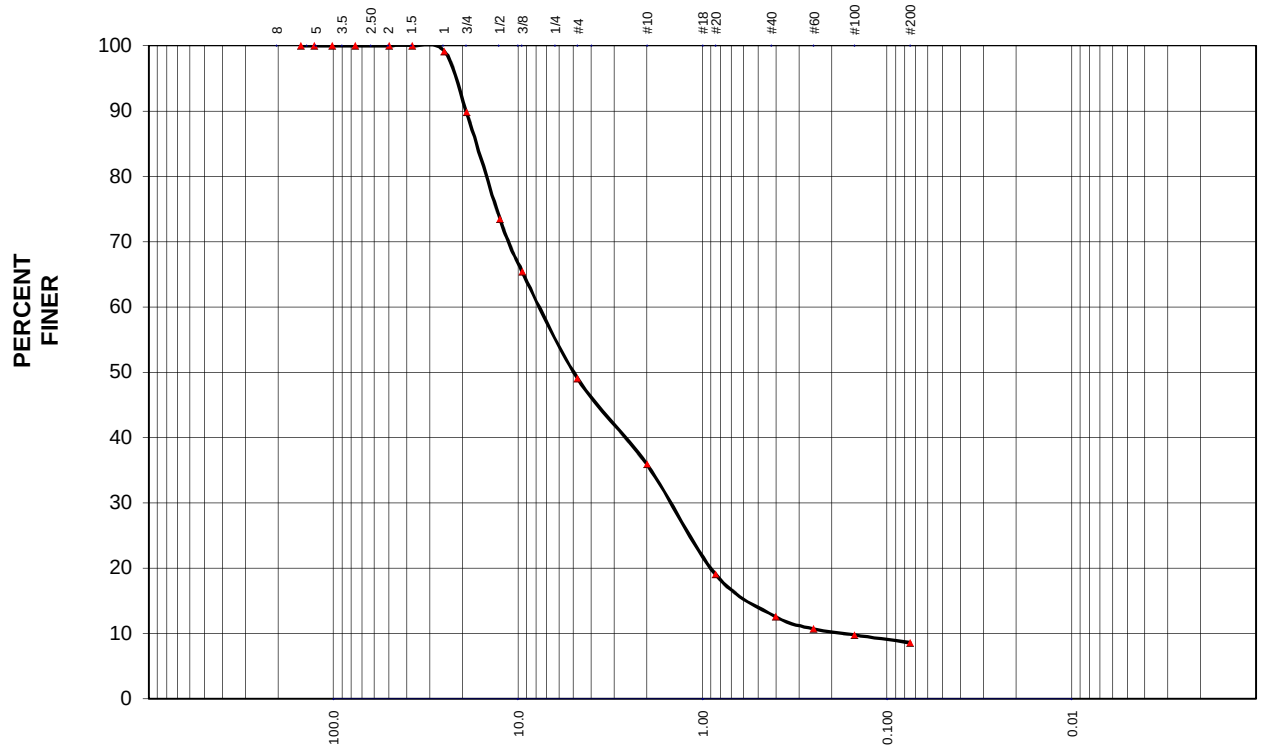
Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		32.5	41.6	25.9	Silt (>0.002mm)	Clay (<0.002mm)
0.0	51.0		% Sand	40.5	8.6	

Classification: Imported - PENNDOT Approved Material

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"	145.00	99			
19.0	3/4"	1740.00	90			
12.5	1/2"	4535.00	73			
9.5	3/8"	5905.00	65			
4.75	#4	8705.00	49			
2.00	#10	165.01	36			
0.850	#20	376.04	19			
0.400	#40	457.45	13			
0.250	#60	480.59	11			
0.150	#100	492.51	10			
0.075	#200	507.37	9			

Total Dry Wt. 17085 g
Split Wt. 615.08 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**4/26/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #11			

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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0049V
Service Date: 04/12/22
Report Date: 04/26/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 04/12/22
Sampled By: William Jablonski
Sample Location: Stockpile

Sample Description: PENNDOT Approved Material, Sample #12

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method A
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

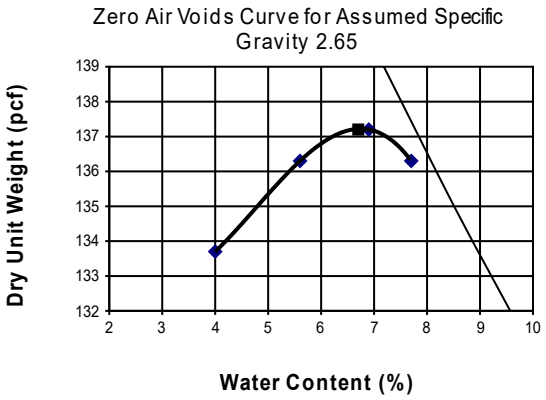
USCS:

Oversized Particles (%): 15.8
Moisture (%): 0.5
Sieve for Oversize Fraction: 4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **137.2**
Optimum Water Content (%): **6.7**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **132.9**
Optimum Water Content (%): **8.0**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris
(1) Geosyntec Consultants, Colin Lamas
(1) Geosyntec Consultants, Paul Botek
(1) Geosyntec Consultants, Paul Brookner
(1) Geosyntec Consultants, Tom Ramsey
(1) Geosyntec Consultants, William Steier

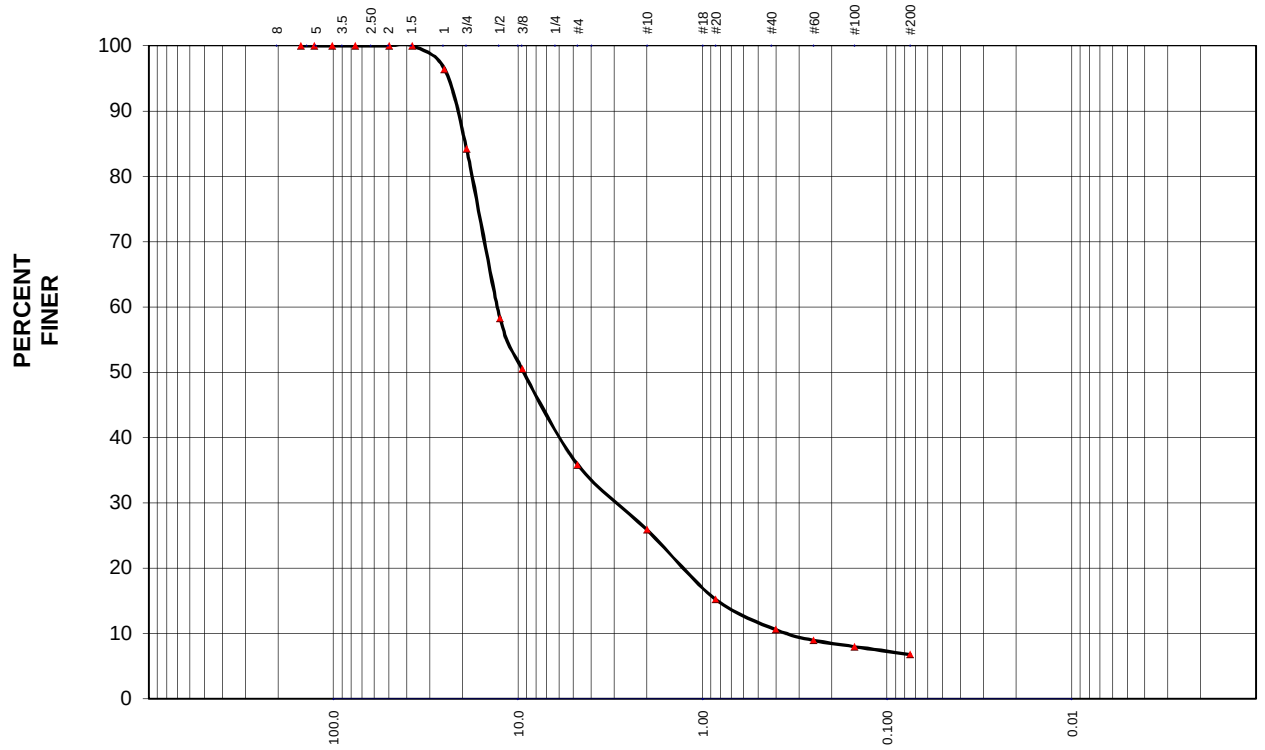
Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		34.3	36.6	29.0	Silt (>0.002mm)	Clay (<0.002mm)
0.0	64.1		% Sand	29.1	6.8	

Classification: Imported - PENNDOT Approved Material

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"	470.00	96			
19.0	3/4"	2070.00	84			
12.5	1/2"	5465.00	58			
9.5	3/8"	6485.00	50			
4.75	#4	8400.00	36			
2.00	#10	226.22	26			
0.850	#20	467.76	15			
0.400	#40	572.60	11			
0.250	#60	609.88	9			
0.150	#100	632.03	8			
0.075	#200	659.16	7			

Total Dry Wt. 13095 g
Split Wt. 813.21 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**4/26/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #12			

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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0053B
Service Date: 04/14/22
Report Date: 05/02/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 04/14/22
Sampled By: William Jablonski
Sample Location: Stockpile

Sample Description: PENNDOT Approved Material, sample #13

Laboratory Test Data

Test Procedure: ASTM D1557
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

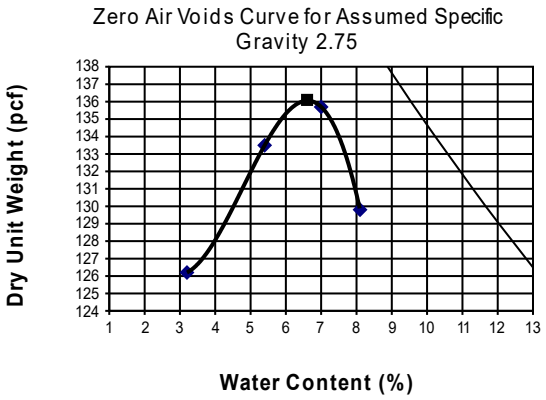
USCS:

Oversized Particles (%): 14.7
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **136.1**
Optimum Water Content (%): **6.6**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **132.0**
Optimum Water Content (%): **7.6**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris
(1) Geosyntec Consultants, Colin Lamas
(1) Geosyntec Consultants, Paul Botek
(1) Geosyntec Consultants, Paul Brookner
(1) Geosyntec Consultants, Tom Ramsey
(1) Geosyntec Consultants, William Steier

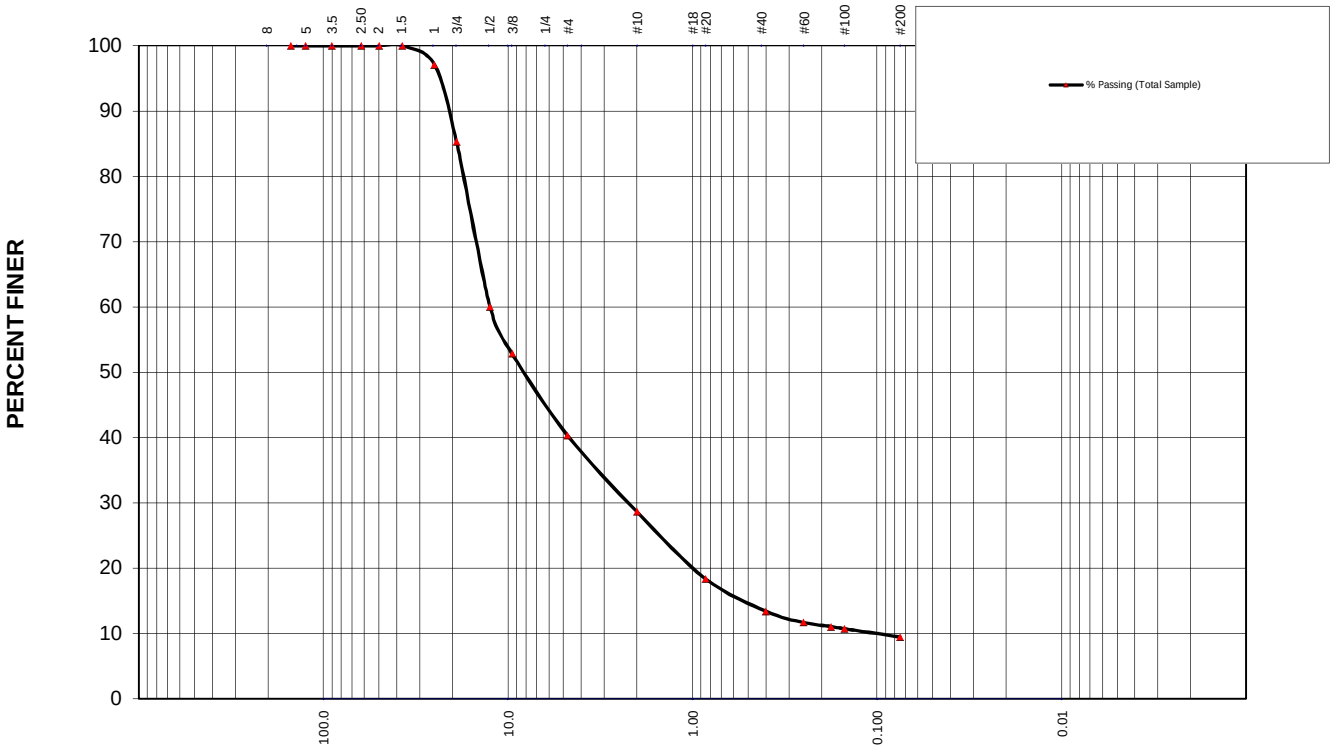
Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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	
		37.9	33.2	28.9	Silt (>0.002mm)	Clay (<0.002mm)
0.0	59.7		% Sand	30.9	9.5	

Classification: Imported - PENNDOT Approved Material

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			
125.0	5"	0.00	100			
90.0	3.5"	0.00	100			
62.5	2.5"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	540.00	97			
19.0	3/4"	2700.00	85			
12.5	1/2"	7330.00	60			
9.5	3/8"	8645.00	53			
4.75	#4	155.24	40			
2.00	#10	300.67	29			
0.850	#20	427.95	18			
0.400	#40	489.68	13			
0.250	#60	511.28	12			
0.177	#80	518.83	11			
0.150	#100	522.96	11			
0.075	#200	538.8	9			

Total Dry Wt. 18325 g
Split Wt. 656.38 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**4/28/2022**
City:	Elmira, New York	Specification:	ASTM C136		
Source:	Lawrenceville Quarry	Sample #13			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 4/26/2022

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0053D
Service Date: 04/14/22
Report Date: 05/02/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 04/18/22
Sampled By: William Jablonski
Sample Location: Stockpile

Sample Description: PENNDOT Approved Material, Sample #14

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

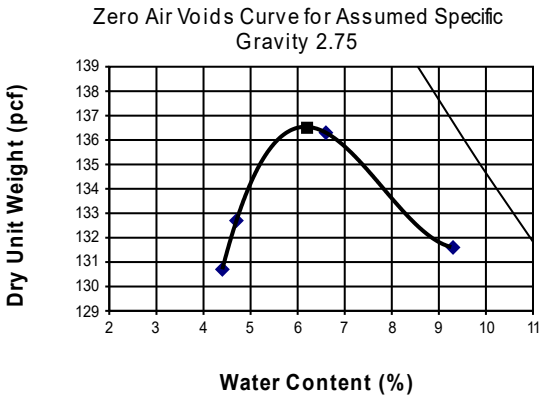
USCS:

Oversized Particles (%): 16.2
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **136.5**
Optimum Water Content (%): **6.2**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **132.4**
Optimum Water Content (%): **7.1**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris
(1) Geosyntec Consultants, Colin Lamas
(1) Geosyntec Consultants, Paul Botek
(1) Geosyntec Consultants, Paul Brookner
(1) Geosyntec Consultants, Tom Ramsey
(1) Geosyntec Consultants, William Steier

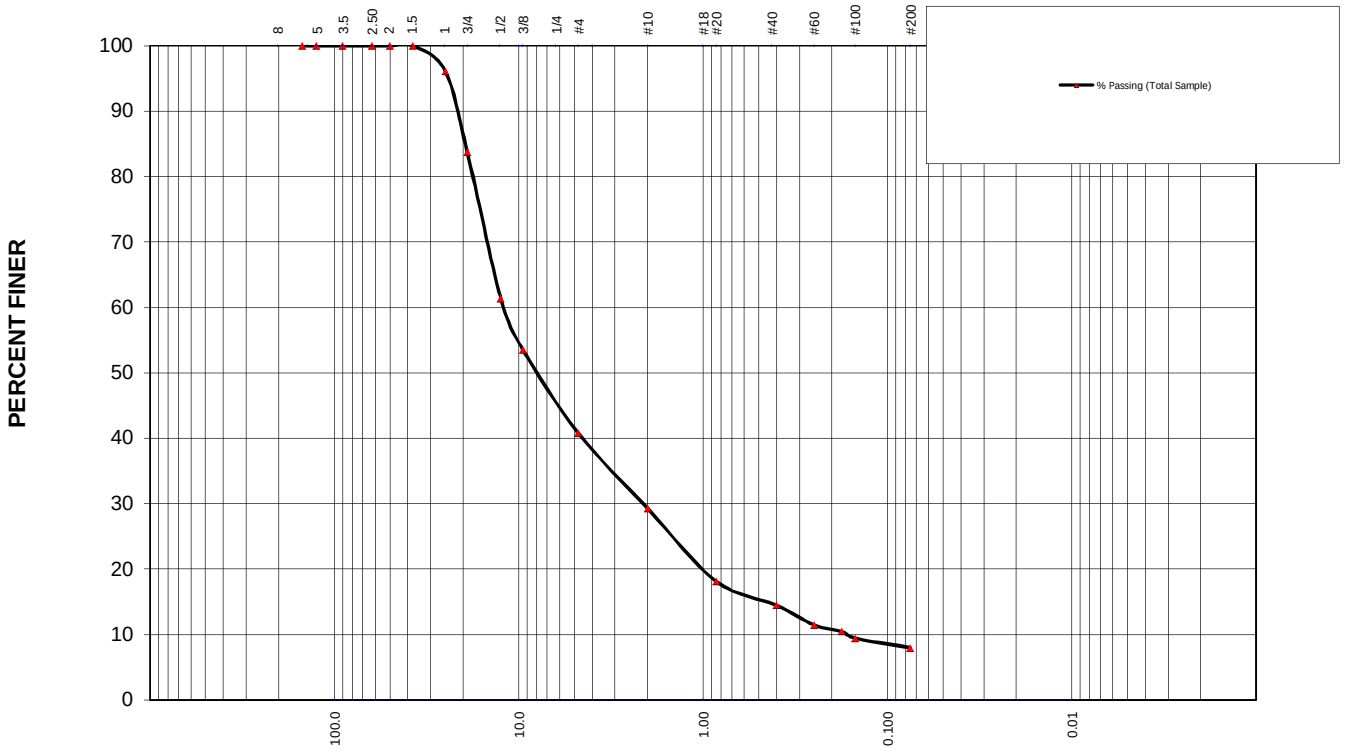
Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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	
		35.1	33.9	31.0	Silt (>0.002mm)	Clay (<0.002mm)
0.0	59.2		% Sand	32.8	8.0	

Classification: Imported - PENNDOT Approved Material

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			
125.0	5"	0.00	100			
90.0	3.5"	0.00	100			
62.5	2.5"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	465.00	96			
19.0	3/4"	1950.00	84			
12.5	1/2"	4640.00	61			
9.5	3/8"	5570.00	54			
4.75	#4	162.76	41			
2.00	#10	309.67	29			
0.850	#20	451.45	18			
0.400	#40	498.01	14			
0.250	#60	536.28	11			
0.177	#80	549.18	10			
0.150	#100	562.13	9			
0.075	#200	580.97	8			

Total Dry Wt. 12000 g
Split Wt. 682.44 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**4/28/2022**
City:	Elmira, New York	Specification:	ASTM C136		
Source:	Lawrenceville Quarry	Sample #14			

15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 4/26/2022

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0053F
Service Date: 04/14/22
Report Date: 05/02/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 04/18/22
Sampled By: William Jablonski
Sample Location: Stockpile

Sample Description: PENNDOT Approved Material, Sample #15

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

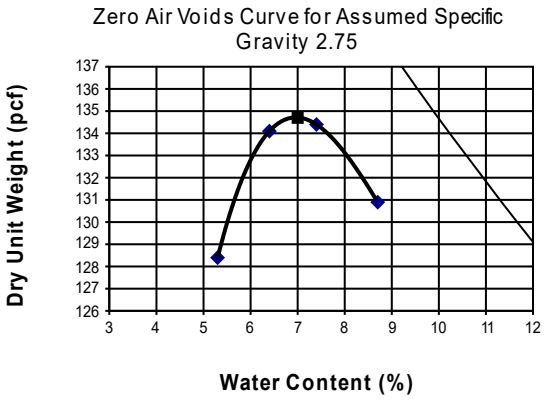
USCS:

Oversized Particles (%): 13.2
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **134.7**
Optimum Water Content (%): **7.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **131.1**
Optimum Water Content (%): **8.0**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris
(1) Geosyntec Consultants, Colin Lamas
(1) Geosyntec Consultants, Paul Botek
(1) Geosyntec Consultants, Paul Brookner
(1) Geosyntec Consultants, Tom Ramsey
(1) Geosyntec Consultants, William Steier

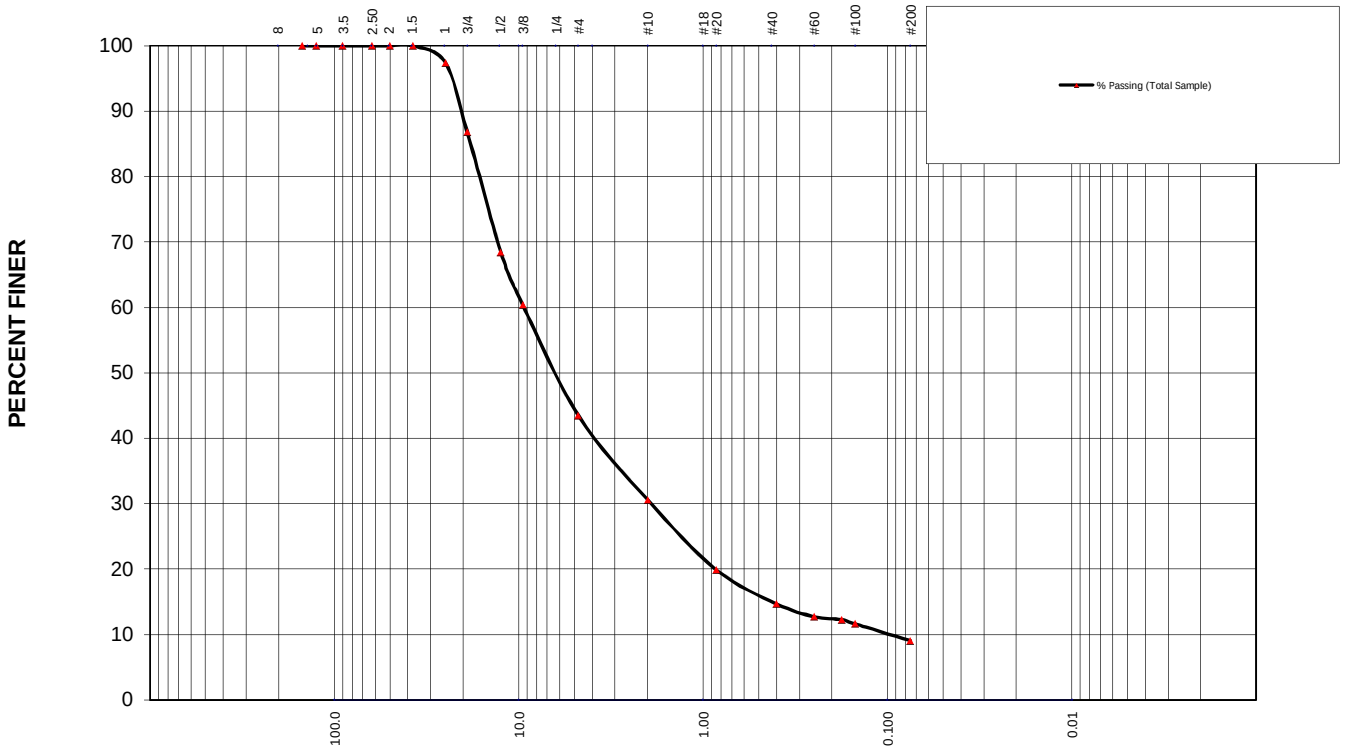
Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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	
		37.4	31.0	31.6	Silt (>0.002mm)	Clay (<0.002mm)
0.0	56.5		% Sand	34.4	9.0	

Classification: Imported - PENNDOT Approved Material

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			
125.0	5"	0.00	100			
90.0	3.5"	0.00	100			
62.5	2.5"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	0.00	100			
25.0	1"	275.00	97			
19.0	3/4"	1405.00	87			
12.5	1/2"	3365.00	68			
9.5	3/8"	4225.00	60			
4.75	#4	140.90	43			
2.00	#10	248.49	31			
0.850	#20	337.51	20			
0.400	#40	381.11	15			
0.250	#60	397.43	13			
0.177	#80	401.25	12			
0.150	#100	406.48	12			
0.075	#200	428.22	9			

Total Dry Wt. 10665 g
Split Wt. 503.67 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**4/28/2022**
City:	Elmira, New York	Specification:	ASTM C136		
Source:	Lawrenceville Quarry	Sample #15			

15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 4/26/2022

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0053H
Service Date: 04/14/22
Report Date: 05/02/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 04/18/22
Sampled By: William Jablonski
Sample Location: Stockpile

Sample Description: PENNDOT Approved Material, Sample #16

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

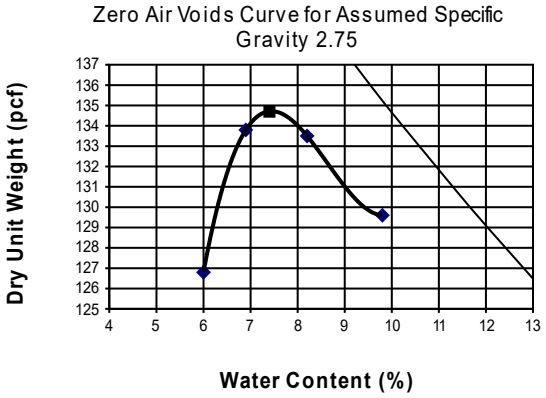
USCS:

Oversized Particles (%): 12.0
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **134.7**
Optimum Water Content (%): **7.4**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **131.3**
Optimum Water Content (%): **8.4**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris
(1) Geosyntec Consultants, Colin Lamas
(1) Geosyntec Consultants, Paul Botek
(1) Geosyntec Consultants, Paul Brookner
(1) Geosyntec Consultants, Tom Ramsey
(1) Geosyntec Consultants, William Steier

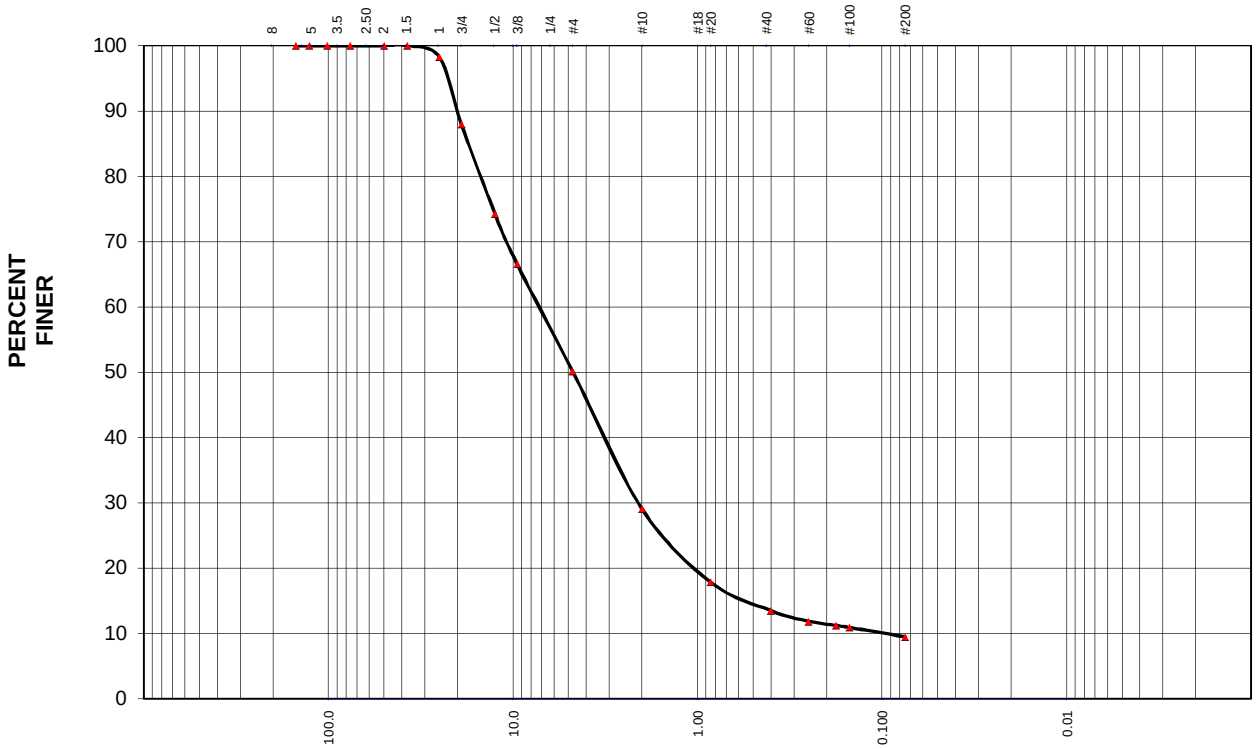
Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		51.8	27.6	20.6	Silt (>0.002mm)	Clay (<0.002mm)
0.0	49.8		% Sand	40.7	9.5	

Classification: Imported - PENNDOT Approved Material

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"	200.00	98			
19.0	3/4"	1355.00	88			
12.5	1/2"	2900.00	74			
9.5	3/8"	3760.00	67			
4.75	#4	5605.00	50			
2.00	#10	217.21	29			
0.850	#20	332.80	18			
0.400	#40	377.69	14			
0.250	#60	394.77	12			
0.177	#80	401.21	11			
0.150	#100	404.56	11			
0.075	#200	419.28	9			

Total Dry Wt. 11245 g
Split Wt. 517.08 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**4/29/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #16			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 4/26/2022

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0053J
Service Date: 04/14/22
Report Date: 05/06/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 04/18/22
Sampled By: William Jablonski
Sample Location: Stockpile

Sample Description: NYSDOT approved Material

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

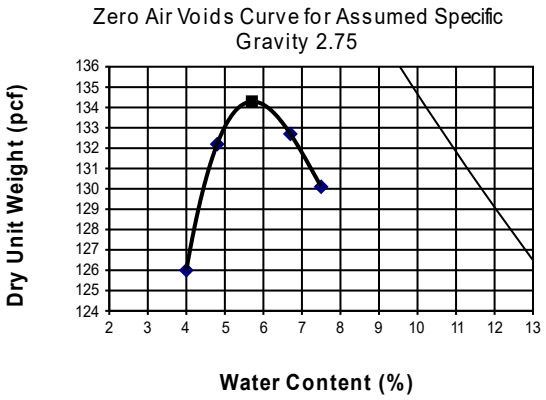
USCS:

Oversized Particles (%): 16.6
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **134.3**
Optimum Water Content (%): **5.7**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **129.2**
Optimum Water Content (%): **6.8**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:
Report Distribution:

See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0053J
Service Date: 04/14/22
Report Date: 05/06/22
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

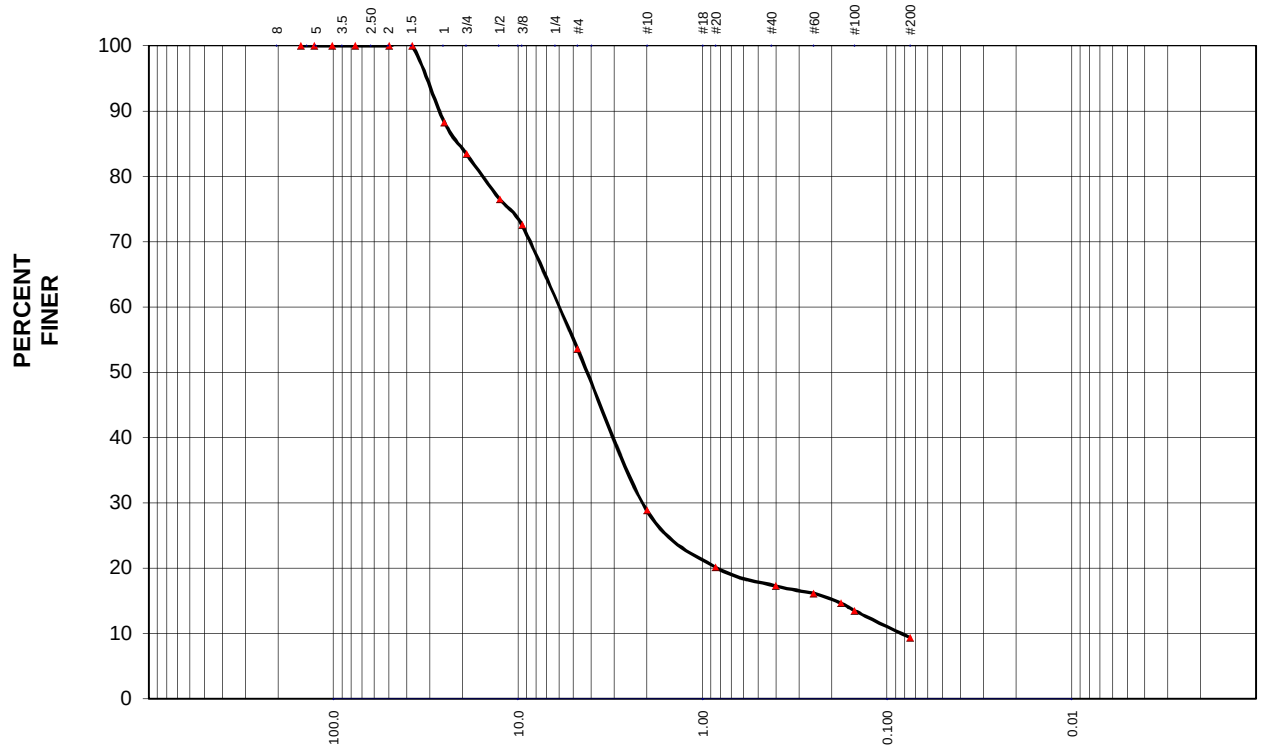
(1) Geosyntec Consultants, Paul Botek

(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	
		56.0	19.6	24.4	Silt (>0.002mm)	Clay (<0.002mm)
0.0	46.5		% Sand	44.2	9.4	

Classification: Imported - NYSDOT Approved Material

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"	1385.00	88			
19.0	3/4"	1955.00	83			
12.5	1/2"	2775.00	76			
9.5	3/8"	3235.00	73			
4.75	#4	5470.00	54			
2.00	#10	203.10	29			
0.850	#20	274.25	20			
0.400	#40	298.10	17			
0.250	#60	307.26	16			
0.177	#80	319.45	15			
0.150	#100	329.14	13			
0.075	#200	362.98	9			

Total Dry Wt. 11775 g
Split Wt. 439.9 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**5/2/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #17			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

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

Distribution Page

Report Number: J5211361.0053I
Service Date: 04/14/22
Report Date: 05/03/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0053L
Service Date: 04/14/22
Report Date: 05/06/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 04/18/22
Sampled By: William Jablonski
Sample Location: Stockpile

Sample Description: NYSDOT Approved Material

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

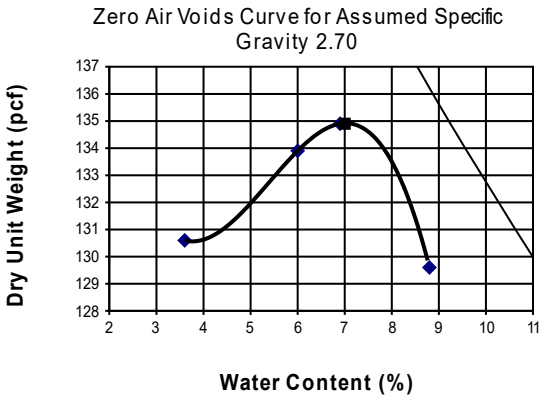
USCS:

Oversized Particles (%): 27.1
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **134.9**
Optimum Water Content (%): **7.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **126.2**
Optimum Water Content (%): **9.4**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:
Report Distribution:

See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0053L
Service Date: 04/14/22
Report Date: 05/06/22
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

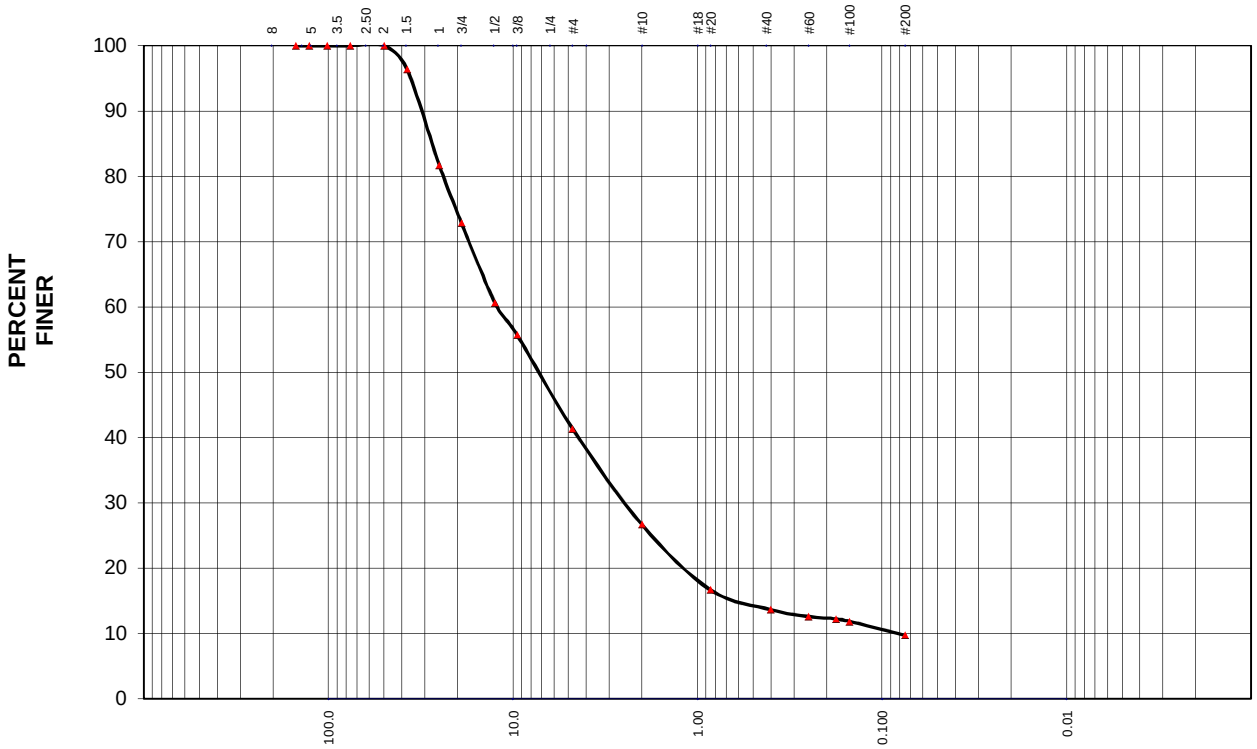
(1) Geosyntec Consultants, Paul Botek

(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	
		46.4	31.6	22.0	Silt (>0.002mm)	Clay (<0.002mm)
0.0	58.6		% Sand	31.6	9.7	

Classification: Imported - NYSDOT Approved Material

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"	445.00	96			
25.0	1"	2255.00	82			
19.0	3/4"	3335.00	73			
12.5	1/2"	4845.00	61			
9.5	3/8"	5440.00	56			
4.75	#4	7205.00	41			
2.00	#10	194.10	27			
0.850	#20	326.19	17			
0.400	#40	366.27	14			
0.250	#60	380.00	13			
0.177	#80	384.56	12			
0.150	#100	389.91	12			
0.075	#200	418.04	10			

Total Dry Wt. 12285 g
Split Wt. 546.5 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**5/2/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #18			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

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

Distribution Page

Report Number: J5211361.0053K
Service Date: 04/14/22
Report Date: 05/03/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0053N
Service Date: 04/14/22
Report Date: 05/06/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 04/18/22
Sampled By: William Jablonski
Sample Location: Stockpile

Sample Description: NYSDOT Approved Material

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

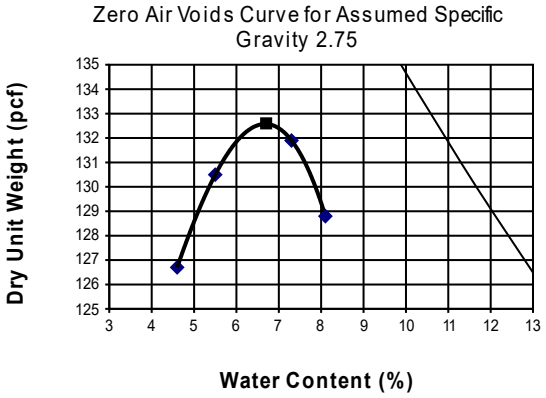
USCS:

Oversized Particles (%): 11.7
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **132.6**
Optimum Water Content (%): **6.7**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **129.2**
Optimum Water Content (%): **7.5**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0053N
Service Date: 04/14/22
Report Date: 05/06/22
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

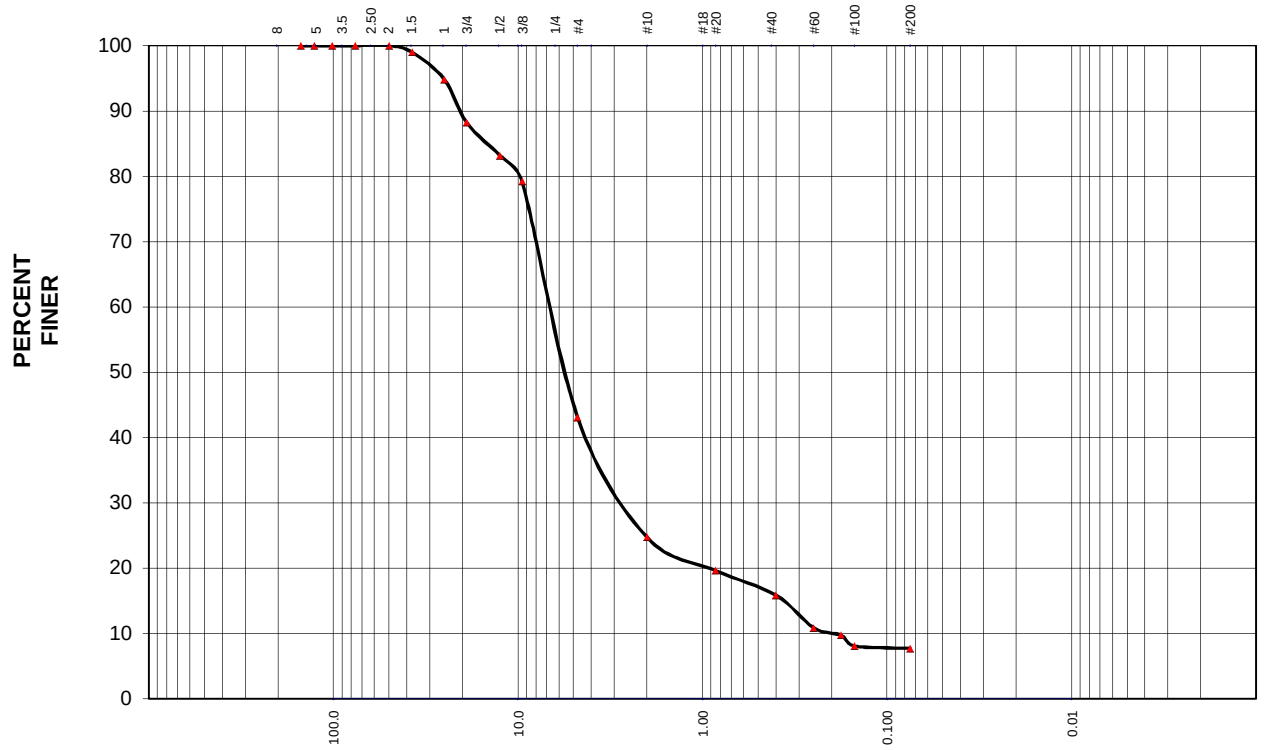
(1) Geosyntec Consultants, Paul Botek

(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	
		51.9	14.4	33.7	Silt (>0.002mm)	Clay (<0.002mm)
0.0	56.9		% Sand	35.4	7.7	

Classification: Imported - NYSDOT Approved Material

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"	105.00	99			
25.0	1"	545.00	95			
19.0	3/4"	1235.00	88			
12.5	1/2"	1775.00	83			
9.5	3/8"	2185.00	79			
4.75	#4	5985.00	43			
2.00	#10	295.61	25			
0.850	#20	377.82	20			
0.400	#40	438.57	16			
0.250	#60	519.18	11			
0.177	#80	537.86	10			
0.150	#100	564.36	8			
0.075	#200	570.02	8			

Total Dry Wt. 10515 g
Split Wt. 694.56 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**5/2/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #19			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

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

Distribution Page

Report Number: J5211361.0053M
Service Date: 04/14/22
Report Date: 05/06/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0053P
Service Date: 04/14/22
Report Date: 05/06/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 05/18/22
Sampled By: William Jablonski
Sample Location: Stockpile

Sample Description: NYSDOT Approved Material

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

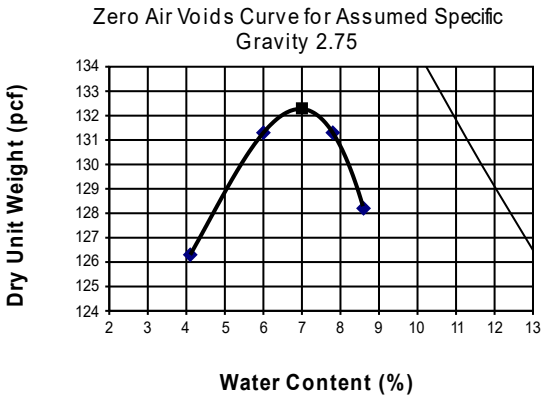
USCS:

Oversized Particles (%): 10.2
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **132.3**
Optimum Water Content (%): **7.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **129.3**
Optimum Water Content (%): **7.7**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0053P
Service Date: 04/14/22
Report Date: 05/06/22
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

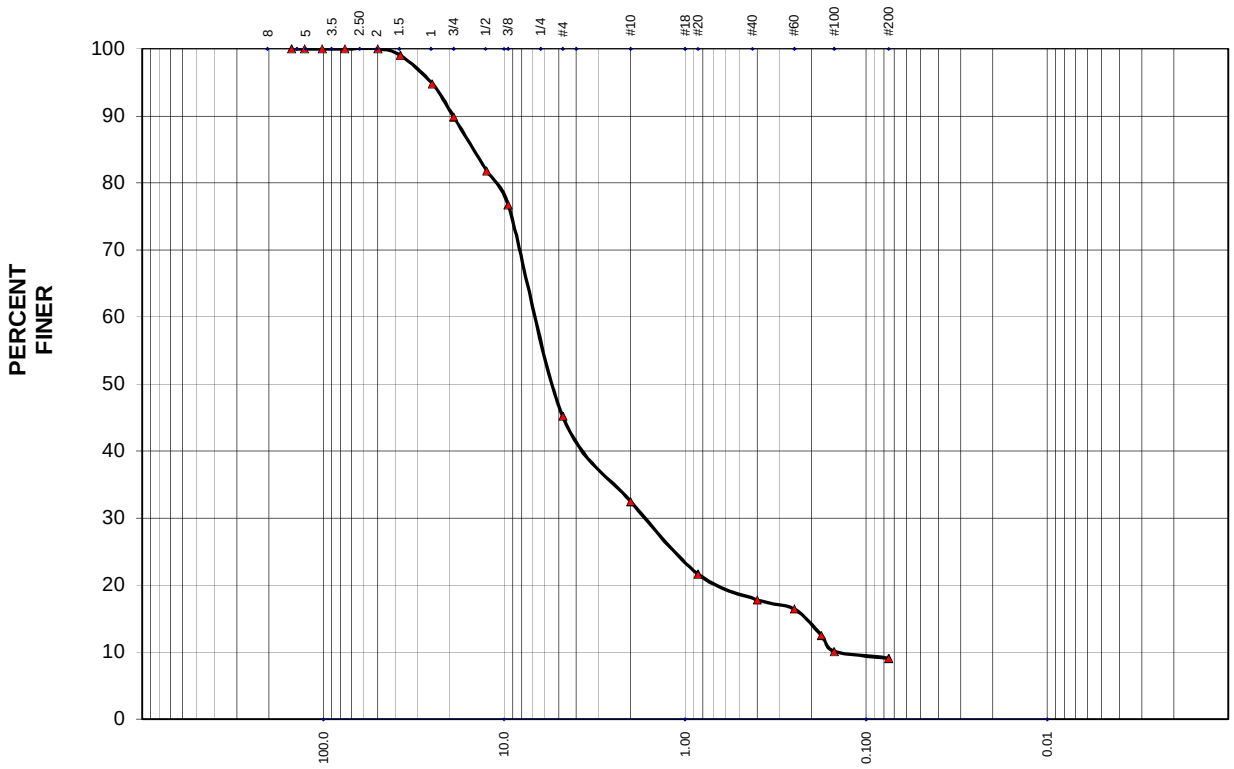
(1) Geosyntec Consultants, Paul Botek

(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	
		35.2	30.1	34.7	Silt (>0.002mm)	Clay (<0.002mm)
0.0	54.8		% Sand	36.1	9.1	

Classification: Imported - NYSDOT Approved Material

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"	100.00	99			
25.0	1"	540.00	95			
19.0	3/4"	1055.00	90			
12.5	1/2"	1890.00	82			
9.5	3/8"	2415.00	77			
4.75	#4	5685.00	45			
2.00	#10	192.74	32			
0.850	#20	357.20	22			
0.400	#40	415.20	18			
0.250	#60	435.87	16			
0.177	#80	495.58	13			
0.150	#100	531.71	10			
0.075	#200	547.18	9			

Total Dry Wt. 10375 g
Split Wt. 685.17 g

Project: **Elmira High School Football Field**	Project No.: **J5211361**	Date: **5/3/2022**
Location: Elmira, New York	Specification: ASTM C136	
Source Lawrenceville Quarry	Sample #20	

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 5/1/2022

Distribution Page

Report Number: J5211361.0053O
Service Date: 04/14/22
Report Date: 05/06/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0053R
Service Date: 04/14/22
Report Date: 05/06/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 04/18/22
Sampled By: William Jablonski
Sample Location: Stockpile

Sample Description: NYSDOT Approved Material

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

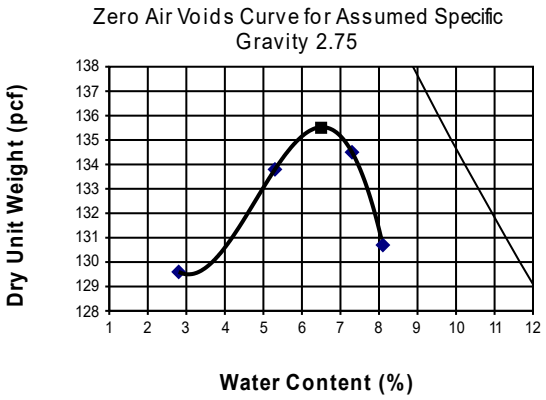
USCS:

Oversized Particles (%): 22.0
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **135.5**
Optimum Water Content (%): **6.5**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **129.1**
Optimum Water Content (%): **8.2**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0053R
Service Date: 04/14/22
Report Date: 05/06/22
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

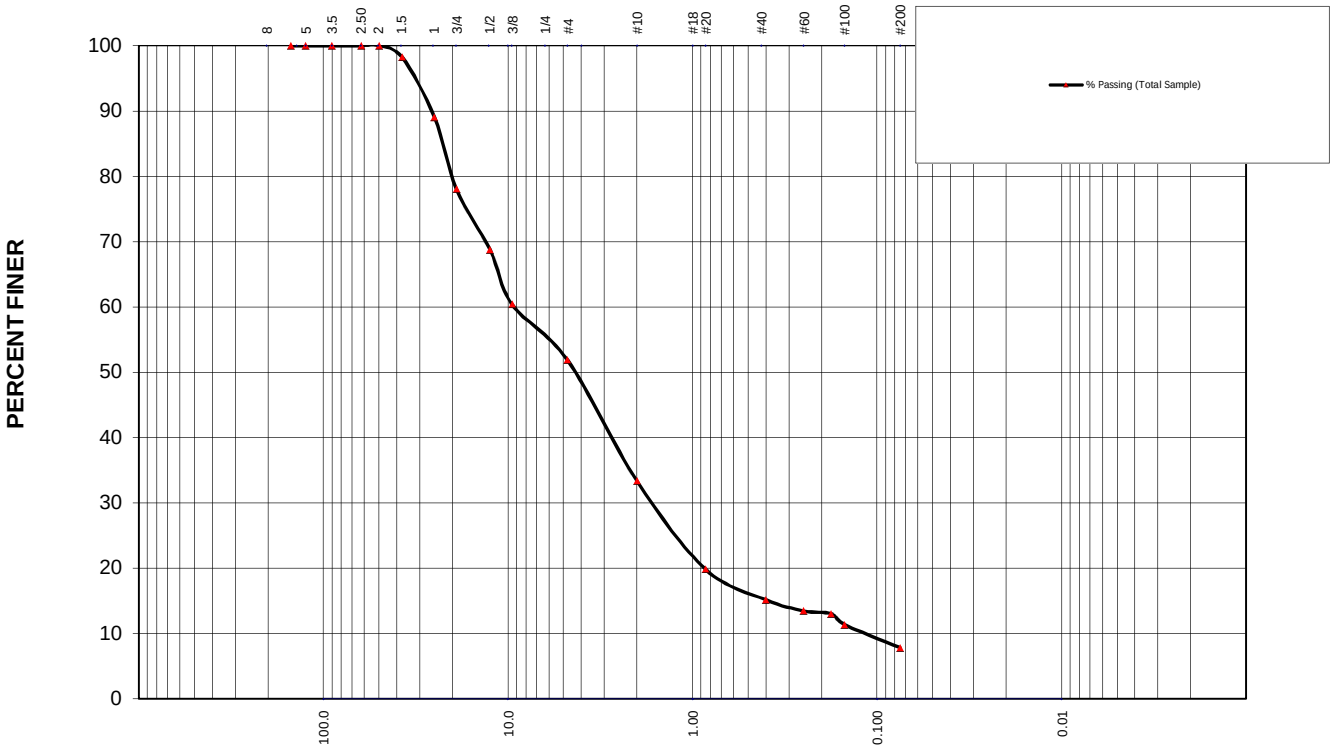
(1) Geosyntec Consultants, Paul Botek

(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	
		42.1	30.7	27.3	Silt (>0.002mm)	Clay (<0.002mm)
0.0	48.2		% Sand	44.0	7.8	

Classification: Imported - NYSDOT Approved Material

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			
125.0	5"	0.00	100			
90.0	3.5"	0.00	100			
62.5	2.5"	0.00	100			
50.0	2"	0.00	100			
37.5	1.5"	235.00	98			
25.0	1"	1455.00	89			
19.0	3/4"	2925.00	78			
12.5	1/2"	4160.00	69			
9.5	3/8"	5270.00	60			
4.75	#4	74.08	52			
2.00	#10	234.78	33			
0.850	#20	351.91	20			
0.400	#40	392.47	15			
0.250	#60	407.20	13			
0.177	#80	410.96	13			
0.150	#100	425.43	11			
0.075	#200	456.16	8			

Total Dry Wt. 13300 g
Split Wt. 524.1 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**5/2/2022**
City:	Elmira, New York	Specification:	ASTM C136		
Source:	Lawrenceville Quarry	Sample #21			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

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

Distribution Page

Report Number: J5211361.0053Q
Service Date: 04/14/22
Report Date: 05/06/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0067B
Service Date: 05/04/22
Report Date: 05/16/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 05/04/22
Sampled By: Kyle Lemcke
Sample Location: Stockpile

Sample Description: PENNDOT Approved Material

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

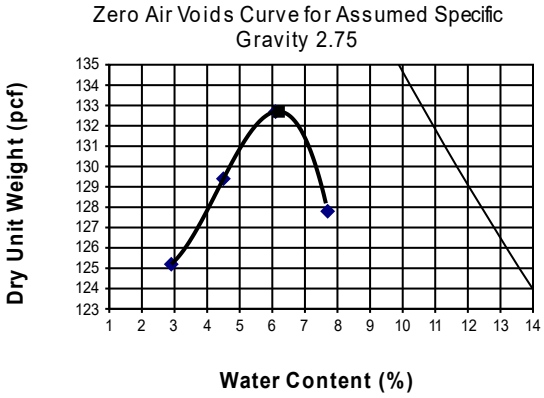
USCS:

Oversized Particles (%): 12.0
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **132.7**
Optimum Water Content (%): **6.2**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **129.2**
Optimum Water Content (%): **6.9**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0067B
Service Date: 05/04/22
Report Date: 05/16/22
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

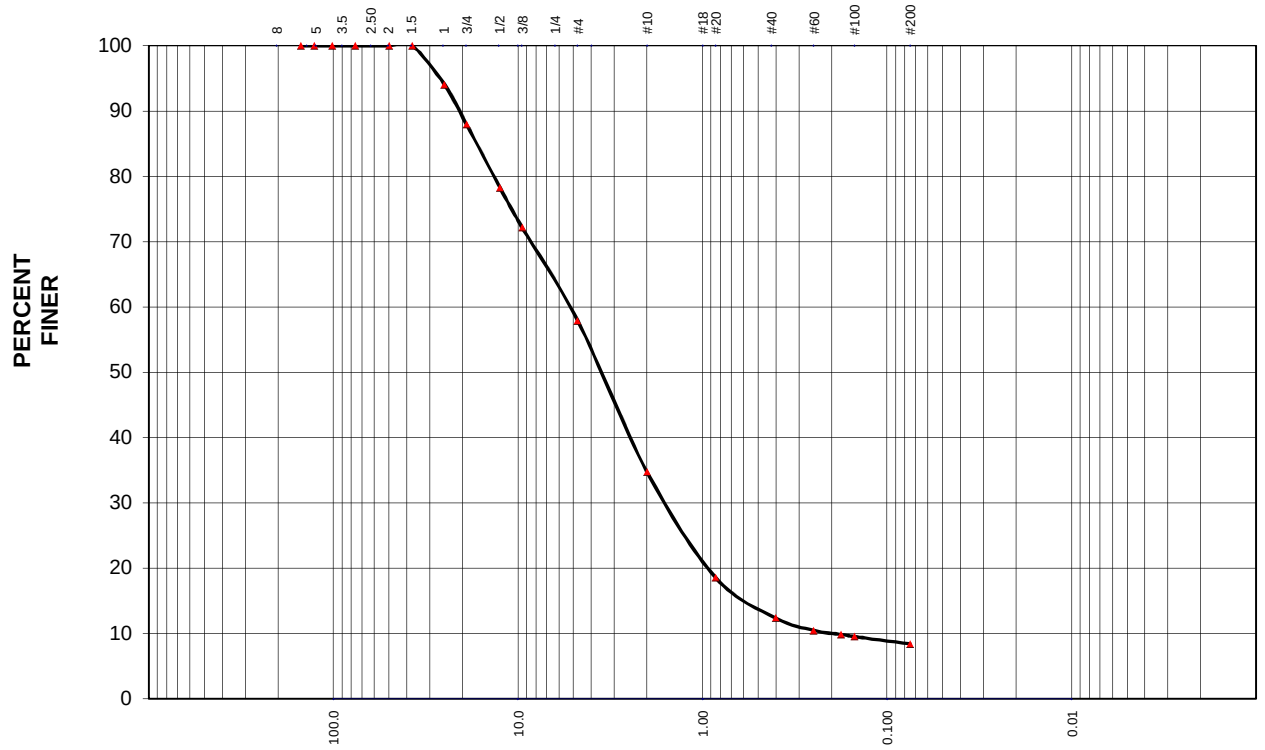
(1) Geosyntec Consultants, Paul Botek

(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	
		46.7	32.7	20.5	Silt (>0.002mm)	Clay (<0.002mm)
0.0	42.1		% Sand	49.5	8.4	

Classification: Imported - PENNDOT Approved Material

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"	760.00	94			
19.0	3/4"	1530.00	88			
12.5	1/2"	2766.00	78			
9.5	3/8"	3540.00	72			
4.75	#4	5350.00	58			
2.00	#10	361.00	35			
0.850	#20	613.72	19			
0.400	#40	710.45	12			
0.250	#60	740.15	10			
0.177	#80	749.80	10			
0.150	#100	754.90	10			
0.075	#200	772.31	8			

Total Dry Wt. 12708 g
Split Wt. 903.48 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**5/16/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #22			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: P. Valenti Date: 5/12/2022

Distribution Page

Report Number: J5211361.0067A
Service Date: 05/04/22
Report Date: 05/16/22
Task:

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

Distribution List

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LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0067D
Service Date: 05/04/22
Report Date: 05/16/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 05/04/22
Sampled By: Pete Valenti
Sample Location: Stockpile

Sample Description: PENNDOT Approved Material

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

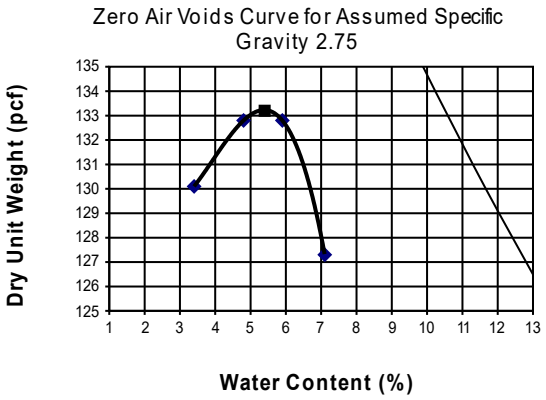
USCS:

Oversized Particles (%): 16.0
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **133.2**
Optimum Water Content (%): **5.4**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **128.4**
Optimum Water Content (%): **6.3**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0067D
Service Date: 05/04/22
Report Date: 05/16/22
Task:

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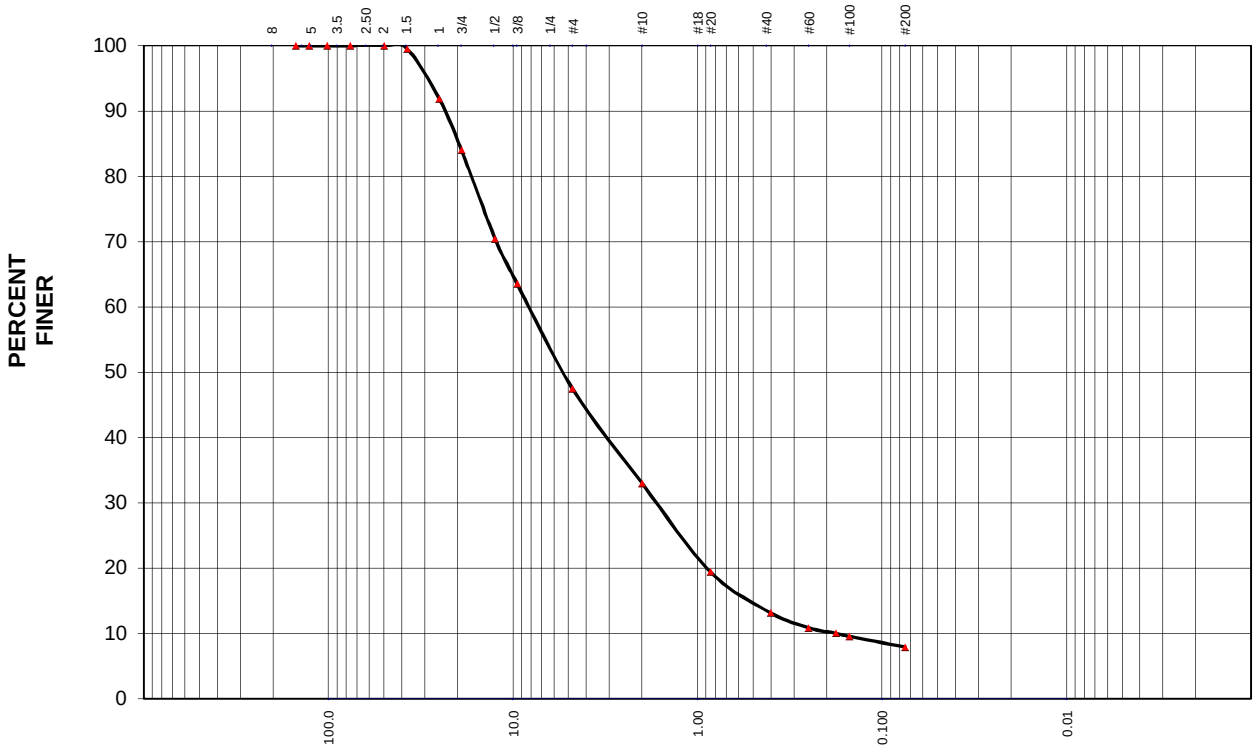
(1) Geosyntec Consultants, Paul Botek

(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	
		36.6	34.4	29.0	Silt (>0.002mm)	Clay (<0.002mm)
0.0	52.5		% Sand	39.5	7.9	

Classification: Imported - PENNDOT Approved Material

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"	92.00	99.5			
25.0	1"	1660.00	92			
19.0	3/4"	3250.00	84			
12.5	1/2"	6005.00	70			
9.5	3/8"	7395.00	64			
4.75	#4	10670.00	47			
2.00	#10	128.85	33			
0.850	#20	250.06	19			
0.400	#40	305.93	13			
0.250	#60	326.25	11			
0.177	#80	333.71	10			
0.150	#100	337.94	10			
0.075	#200	352.44	8			

Total Dry Wt. 20308 g
Split Wt. 423.15 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**5/16/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #23			

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http://www.terracon.com/

Remarks:

Tested By: P. Valenti Date: 5/12/2022

Distribution Page

Report Number: J5211361.0067C
Service Date: 05/04/22
Report Date: 05/16/22
Task:

15 Marway Cir, Ste 2B
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Distribution List

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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0079A
Service Date: 05/22/22
Report Date: 05/23/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 05/12/22
Sampled By: Rob Castronovo
Sample Location: Stockpile

Sample Description: Item 4 - Sample 38

Laboratory Test Data

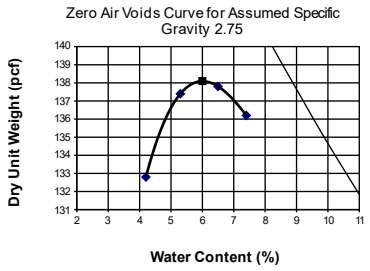
Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

USCS:

Oversized Particles (%): 11.6
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65



Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.1**
Optimum Water Content (%): **6.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.2**
Optimum Water Content (%): **6.7**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:
Report Distribution:

See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0079A
Service Date: 05/22/22
Report Date: 05/23/22
Task:

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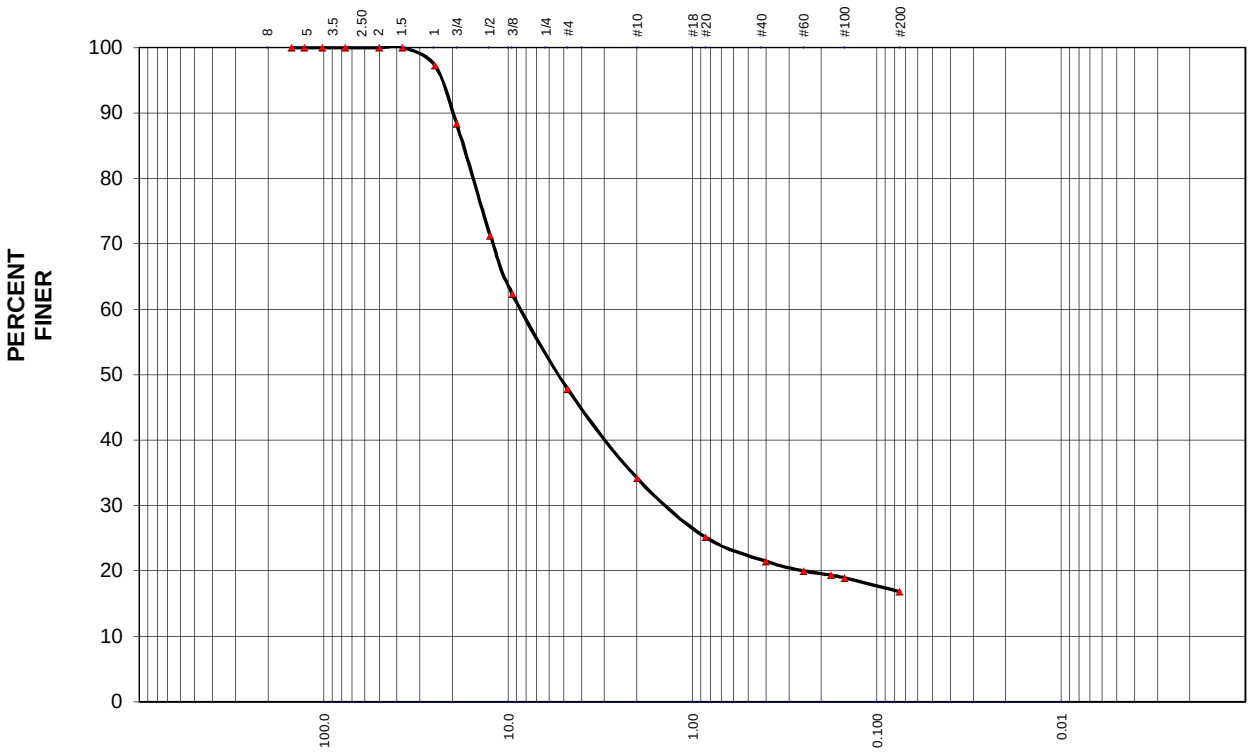
(1) Geosyntec Consultants, Paul Botek

(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	
		44.0	29.2	26.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	52.2		% Sand	31.0	16.9	

Classification: Imported - Item 4

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"	365.00	97			
19.0	3/4"	1575.00	88			
12.5	1/2"	3890.00	71			
9.5	3/8"	5095.00	62			
4.75	#4	7070.00	48			
2.00	#10	139.51	34			
0.850	#20	232.28	25			
0.400	#40	269.76	21			
0.250	#60	284.83	20			
0.177	#80	291.59	19			
0.150	#100	295.88	19			
0.075	#200	317.25	17			

Total Dry Wt. 13550 g
Split Wt. 489.97 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**5/23/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #38			

Terracon
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Rochester, NY 14624
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 5/20/2022

Distribution Page

Report Number: J5211361.0079
Service Date: 05/22/22
Report Date: 05/23/22
Task:

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585-247-3471

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(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0067L
Service Date: 05/04/22
Report Date: 06/30/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 05/04/22
Sampled By: Pete Valenti
Sample Location: Lawrenceville Quarry

Sample Description: PENNDOT Approved Material

Laboratory Test Data

Test Procedure: ASTM D1557
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

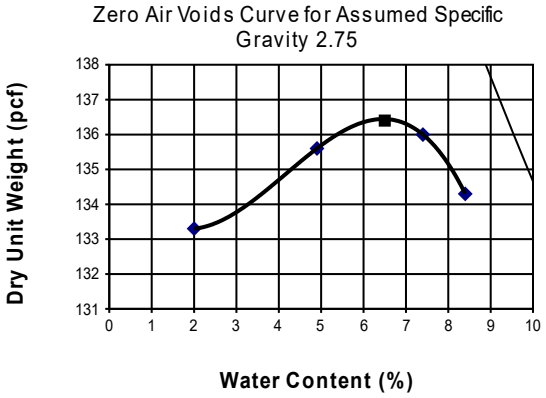
USCS:

Oversized Particles (%): 14.5
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **136.4**
Optimum Water Content (%): **6.5**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **132.6**
Optimum Water Content (%): **7.4**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:
Report Distribution:

See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0067L
Service Date: 05/04/22
Report Date: 06/30/22
Task:

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Rochester, NY 14624-2300
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Distribution List

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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

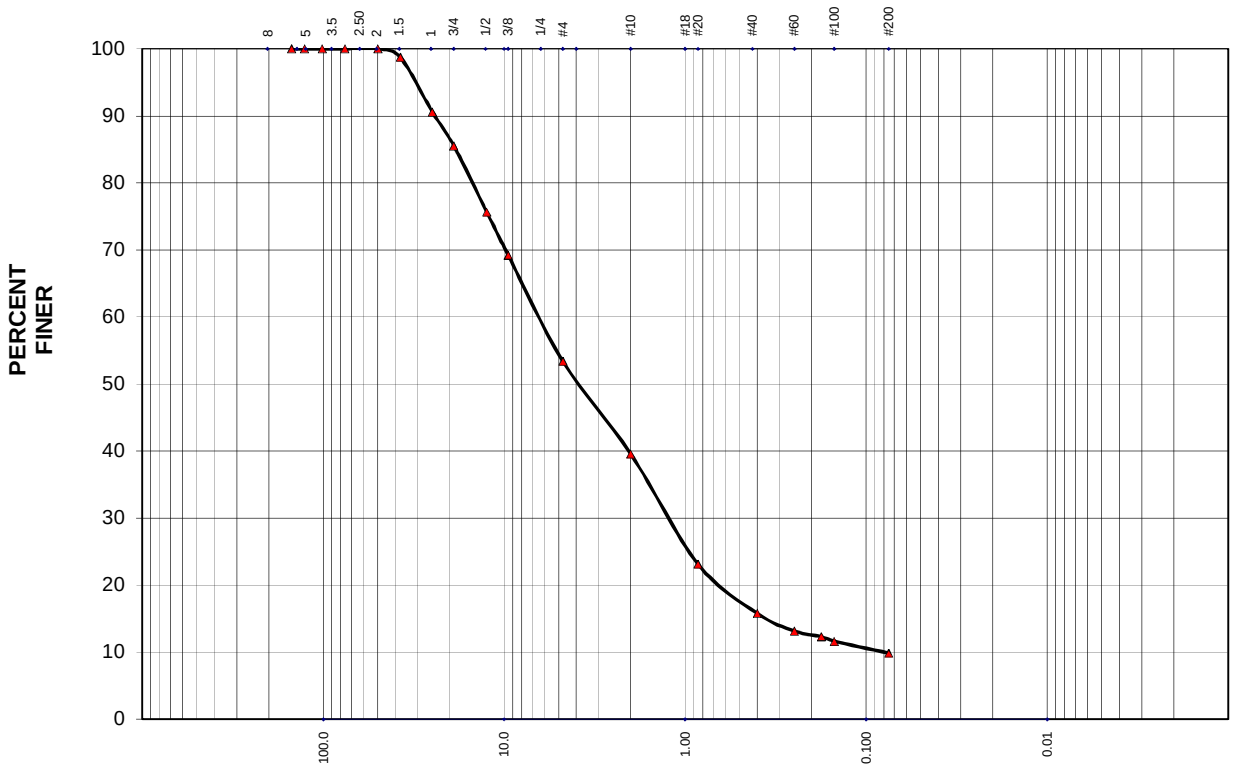
(1) Geosyntec Consultants, Paul Botek

(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	
		31.8	37.7	30.5	Silt (>0.002mm)	Clay (<0.002mm)
0.0	46.6		% Sand	43.6	9.8	

Classification: Imported - PENNDOT Approved Material

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"	200.00	99			
25.0	1"	1475.00	91			
19.0	3/4"	2270.00	86			
12.5	1/2"	3825.00	76			
9.5	3/8"	4830.00	69			
4.75	#4	7310.00	53			
2.00	#10	98.52	40			
0.850	#20	215.45	23			
0.400	#40	267.69	16			
0.250	#60	286.39	13			
0.177	#80	292.45	12			
0.150	#100	297.31	12			
0.075	#200	309.98	10			

Total Dry Wt. 15695 g
Split Wt. 380.04 g

Project: **Elmira High School Football Field**	Project No.: **J5211361**	Date: **6/30/2022**
Location: Elmira, New York	Specification: ASTM C136	
Source Lawrenceville Quarry	Sample #27	

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 6/22/2022

Distribution Page

Report Number: J5211361.0067K
Service Date: 05/04/22
Report Date: 06/30/22
Task:

15 Marway Cir, Ste 2B
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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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0067N
Service Date: 05/04/22
Report Date: 06/30/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 05/04/22
Sampled By: Pete Valenti
Sample Location: Lawrenceville Quarry

Sample Description: PENNDOT approved material

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

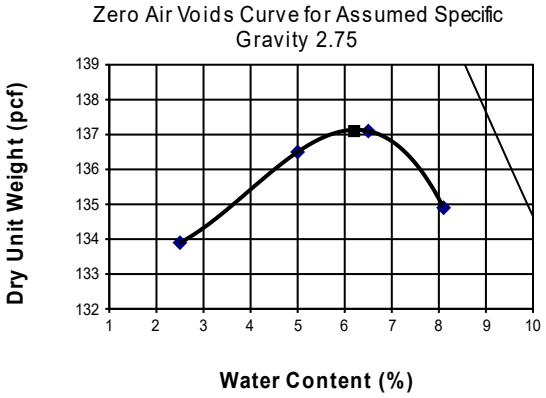
USCS:

Oversized Particles (%): 19.8
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **137.1**
Optimum Water Content (%): **6.2**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **131.6**
Optimum Water Content (%): **7.6**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0067N
Service Date: 05/04/22
Report Date: 06/30/22
Task:

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

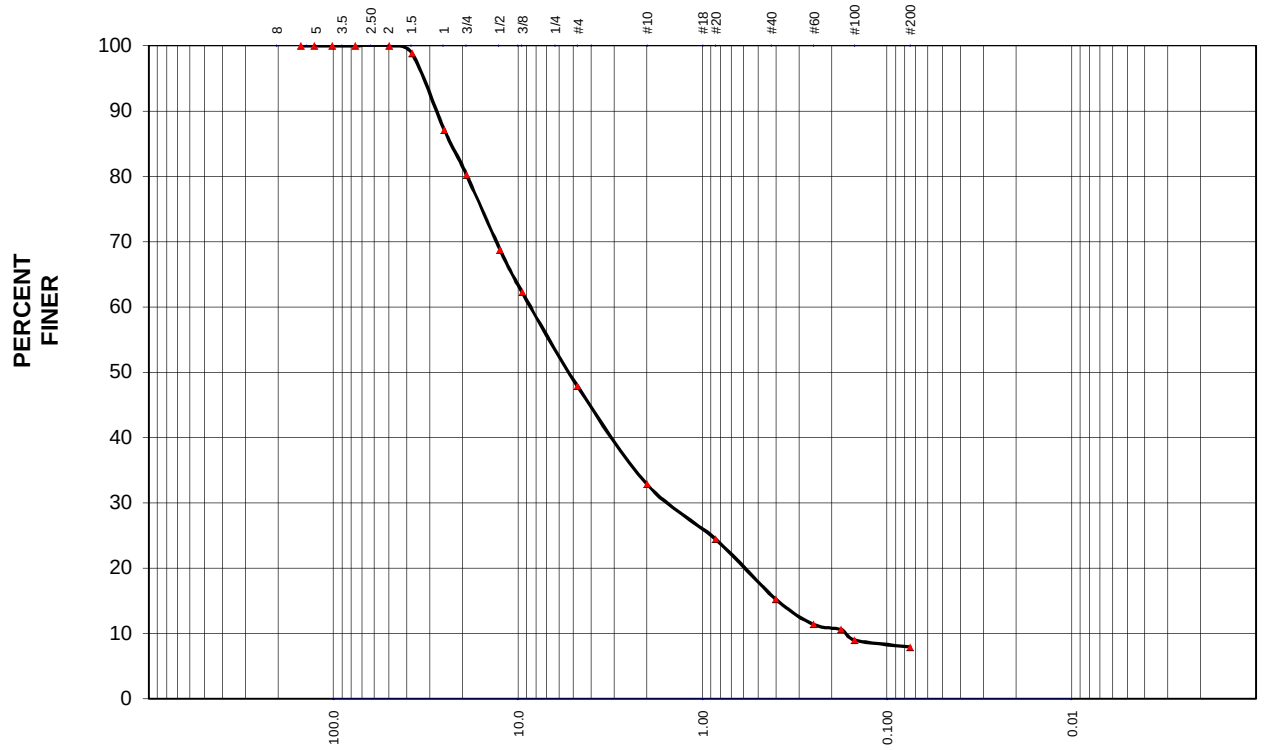
(1) Geosyntec Consultants, Paul Botek

(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	
		37.6	21.0	41.4	Silt (>0.002mm)	Clay (<0.002mm)
0.0	52.2		% Sand	39.9	7.9	

Classification: Imported - PENNDOT Approved Material

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"	215.00	99			
25.0	1"	2290.00	87			
19.0	3/4"	3495.00	80			
12.5	1/2"	5520.00	69			
9.5	3/8"	6670.00	62			
4.75	#4	9220.00	48			
2.00	#10	376.59	33			
0.850	#20	587.49	24			
0.400	#40	817.98	15			
0.250	#60	915.23	11			
0.177	#80	934.58	11			
0.150	#100	974.89	9			
0.075	#200	1002.27	8			

Total Dry Wt. 17675 g
Split Wt. 1200.91 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**6/30/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #28			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 6/22/2022

Distribution Page

Report Number: J5211361.0067M
Service Date: 05/04/22
Report Date: 06/30/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0067P
Service Date: 05/04/22
Report Date: 07/15/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 05/04/22
Sampled By: Pete Valenti
Sample Location: Lawrenceville Quarry

Sample Description: PENNDOT Approved Material

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

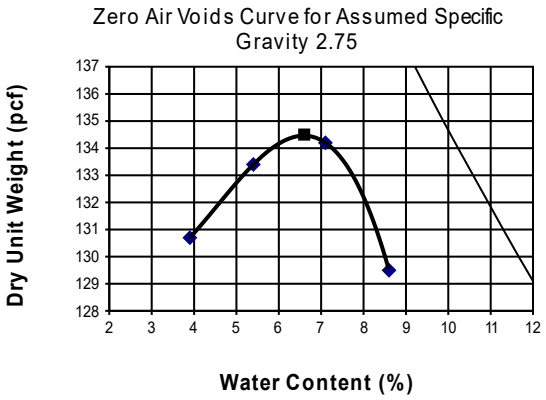
USCS:

Oversized Particles (%): 14.1
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **134.5**
Optimum Water Content (%): **6.6**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **130.5**
Optimum Water Content (%): **7.6**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0067P
Service Date: 05/04/22
Report Date: 07/15/22
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

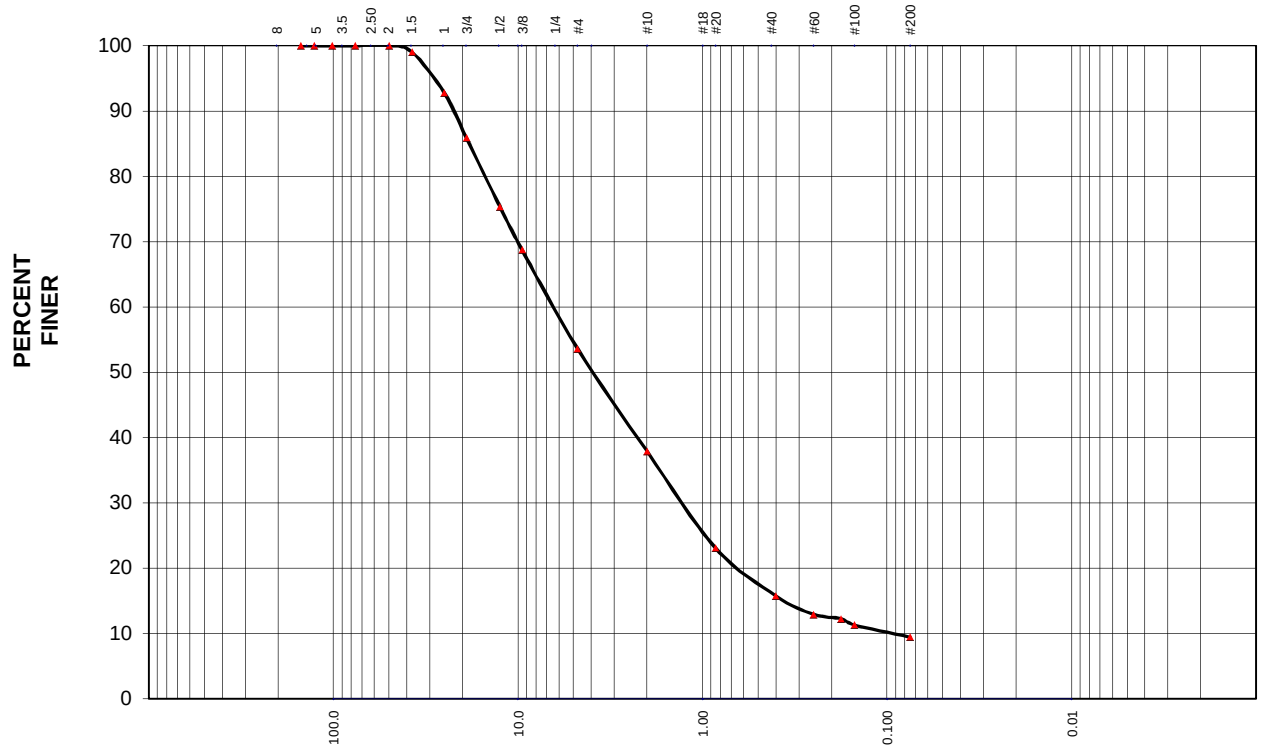
(1) Geosyntec Consultants, Paul Botek

(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	
		35.5	33.6	30.9	Silt (>0.002mm)	Clay (<0.002mm)
0.0	46.4		% Sand	44.2	9.4	

Classification: Imported - PENNDOT Approved Material

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"	165.00	99			
25.0	1"	1200.00	93			
19.0	3/4"	2330.00	86			
12.5	1/2"	4075.00	75			
9.5	3/8"	5155.00	69			
4.75	#4	7650.00	54			
2.00	#10	120.50	38			
0.850	#20	234.34	23			
0.400	#40	290.61	16			
0.250	#60	312.20	13			
0.177	#80	317.47	12			
0.150	#100	324.77	11			
0.075	#200	339.10	9			

Total Dry Wt. 16485 g
Split Wt. 411.61 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**7/15/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #29			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 7/11/2022

Distribution Page

Report Number: J5211361.0067O
Service Date: 05/04/22
Report Date: 07/15/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0067R
Service Date: 05/04/22
Report Date: 07/20/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 05/05/22
Sampled By: Pete Valenti
Sample Location: Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #30

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

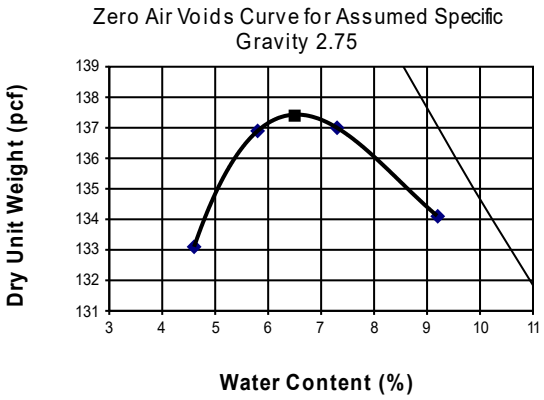
USCS:

Oversized Particles (%): 11.6
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **137.4**
Optimum Water Content (%): **6.5**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.5**
Optimum Water Content (%): **7.3**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0067R
Service Date: 05/04/22
Report Date: 07/20/22
Task:

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Distribution List

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(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

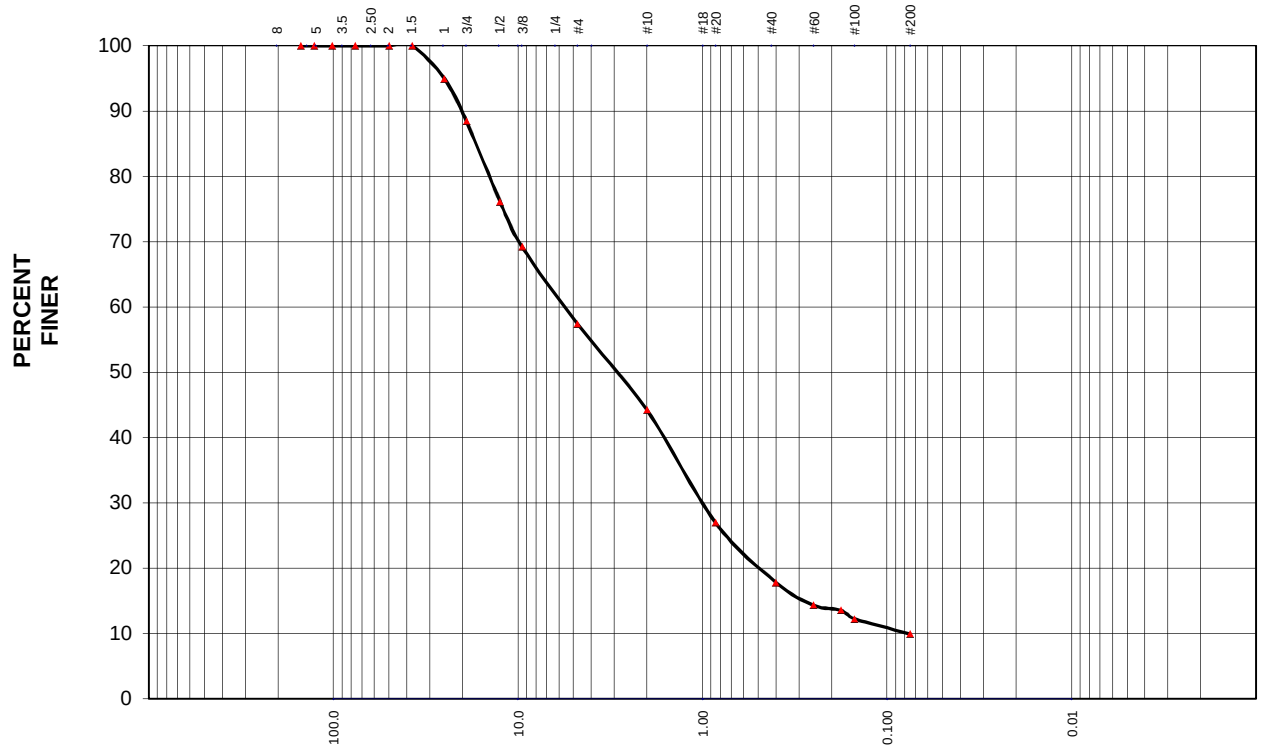
(1) Geosyntec Consultants, Paul Botek

(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	
		27.8	36.3	35.9	Silt (>0.002mm)	Clay (<0.002mm)
0.0	42.6		% Sand	47.4	9.9	

Classification: Imported - PENNDOT Approved Material

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"	835.00	95			
19.0	3/4"	1905.00	88			
12.5	1/2"	3920.00	76			
9.5	3/8"	5055.00	69			
4.75	#4	6995.00	57			
2.00	#10	100.58	44			
0.850	#20	232.20	27			
0.400	#40	302.17	18			
0.250	#60	328.77	14			
0.177	#80	334.75	14			
0.150	#100	344.67	12			
0.075	#200	362.37	10			

Total Dry Wt. 16415 g
Split Wt. 438.27 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**7/20/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #30			

Terracon
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Rochester, NY 14624
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 7/19/2022

Distribution Page

Report Number: J5211361.0067Q
Service Date: 05/04/22
Report Date: 07/20/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0067T
Service Date: 05/04/22
Report Date: 07/20/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 05/05/22
Sampled By: Pete Valenti
Sample Location: Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #31

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

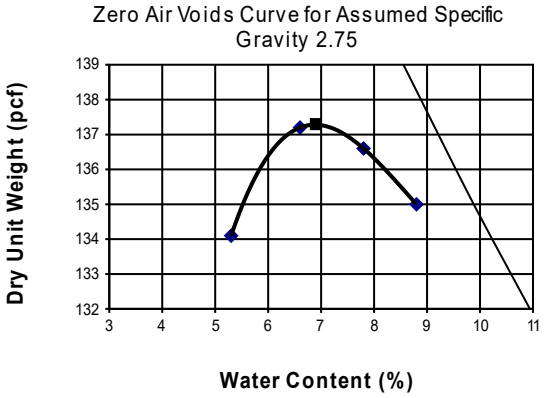
USCS:

Oversized Particles (%): 15.4
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **137.3**
Optimum Water Content (%): **6.9**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.2**
Optimum Water Content (%): **8.0**



Comments:

Services: Sample fill material at borrow source and return it to laboratory on Service Date. Prepare and test sample for moisture-density relationship and Atterberg Limits. Atterberg Limits test method is ASTM D4318, Method B, dry preparation.

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0067T
Service Date: 05/04/22
Report Date: 07/20/22
Task:

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

Distribution List

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(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

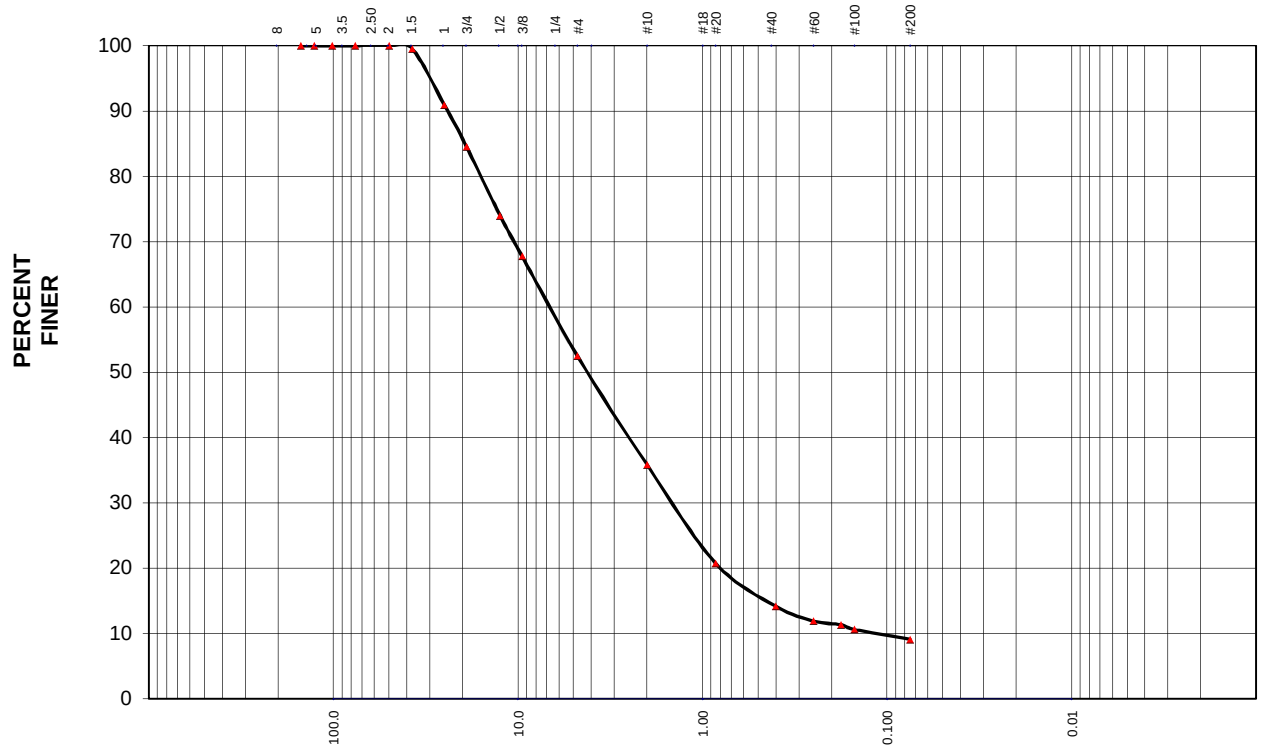
(1) Geosyntec Consultants, Paul Botek

(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	
		38.2	34.9	26.9	Silt (>0.002mm)	Clay (<0.002mm)
0.0	47.6		% Sand	43.3	9.1	

Classification: Imported - PENNDOT Approved Material

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"	65.00	100			
25.0	1"	1320.00	91			
19.0	3/4"	2240.00	85			
12.5	1/2"	3775.00	74			
9.5	3/8"	4675.00	68			
4.75	#4	6900.00	52			
2.00	#10	144.02	36			
0.850	#20	275.48	21			
0.400	#40	332.67	14			
0.250	#60	352.50	12			
0.177	#80	357.41	11			
0.150	#100	363.72	11			
0.075	#200	376.95	9			

Total Dry Wt. 14505 g
Split Wt. 456.01 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**7/20/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #31			

Terracon
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Rochester, NY 14624
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 7/19/2022

Distribution Page

Report Number: J5211361.0067S
Service Date: 05/04/22
Report Date: 07/20/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0067U
Service Date: 05/04/22
Report Date: 07/22/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 07/22/22
Sampled By: Kyle Lemcke
Sample Location: Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #32

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

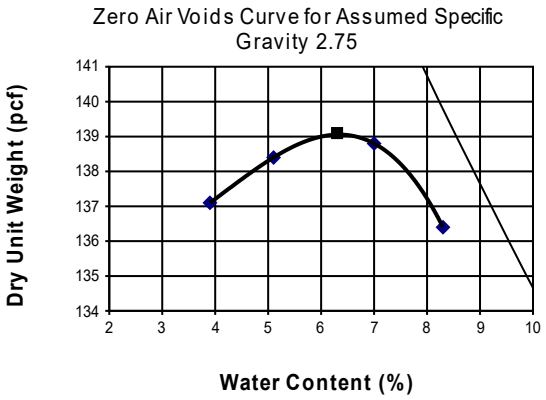
USCS:

Oversized Particles (%): 19.4
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **139.1**
Optimum Water Content (%): **6.3**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.9**
Optimum Water Content (%): **7.7**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0067U
Service Date: 05/04/22
Report Date: 07/22/22
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

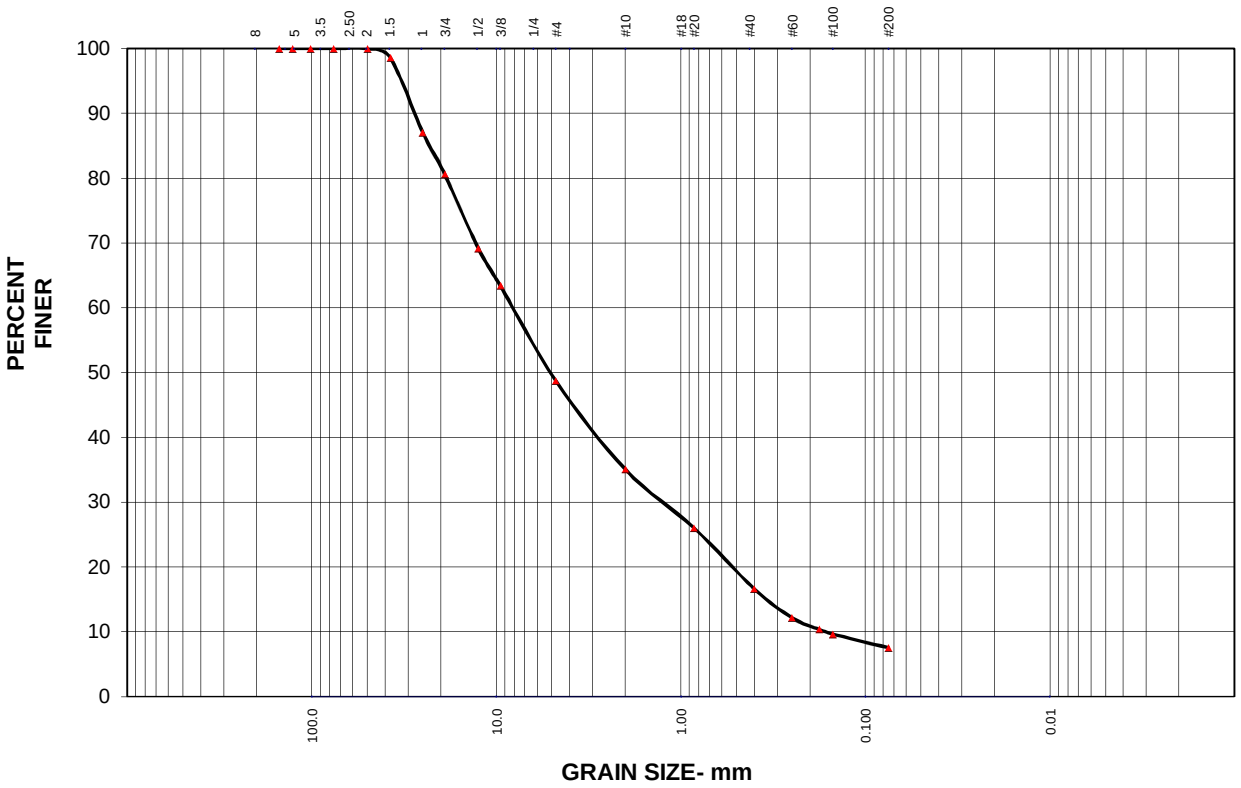
(1) Geosyntec Consultants, Paul Botek

(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	
		33.1	22.0	44.9	Silt (>0.002mm)	Clay (<0.002mm)
0.0	51.3	% Sand		41.2	7.5	

Classification: Imported - PENNDOT Approved Material

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"	280.00	99			
25.0	1"	2475.00	87			
19.0	3/4"	3720.00	81			
12.5	1/2"	5910.00	69			
9.5	3/8"	7005.00	63			
4.75	#4	9815.00	49			
2.00	#10	320.04	35			
0.850	#20	532.14	26			
0.400	#40	752.98	17			
0.250	#60	857.23	12			
0.177	#80	900.31	10			
0.150	#100	917.09	10			
0.075	#200	966.17	8			

Total Dry Wt. 19135 g
Split Wt. 1143.26 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**7/22/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #32			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 7/22/2022

Distribution Page

Report Number: J5211361.0067V
Service Date: 05/04/22
Report Date: 07/22/22
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

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(1) Geosyntec Consultants, Paul Brookner

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LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0067X
Service Date: 05/04/22
Report Date: 07/22/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 05/04/22
Sampled By: Pete Valenti
Sample Location: Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #33

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

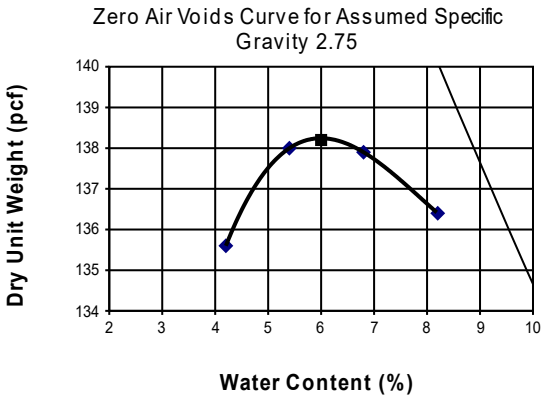
USCS:

Oversized Particles (%): 14.9
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.2**
Optimum Water Content (%): **6.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.4**
Optimum Water Content (%): **6.9**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0067X
Service Date: 05/04/22
Report Date: 07/22/22
Task:

15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
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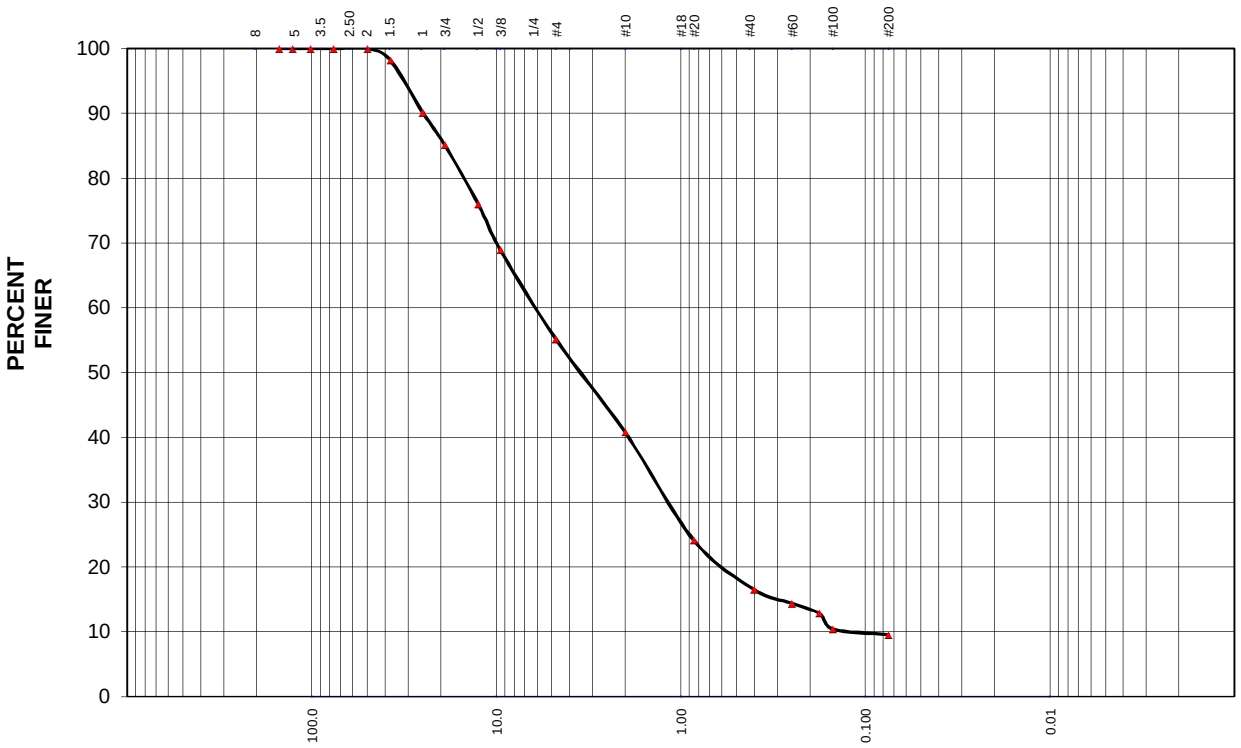
(1) Geosyntec Consultants, Paul Botek

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(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	
		31.5	36.5	32.0	Silt (>0.002mm)	Clay (<0.002mm)
0.0	44.9		% Sand	45.6	9.5	

Classification: Imported - PENNDOT Approved Material

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"	305.00	98			
25.0	1"	1695.00	90			
19.0	3/4"	2550.00	85			
12.5	1/2"	4120.00	76			
9.5	3/8"	5325.00	69			
4.75	#4	7685.00	55			
2.00	#10	104.83	41			
0.850	#20	226.49	24			
0.400	#40	281.98	16			
0.250	#60	297.48	14			
0.177	#80	308.91	13			
0.150	#100	326.35	10			
0.075	#200	332.87	10			

Total Dry Wt. 17130 g
Split Wt. 402.38 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**7/22/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #33			

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585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 7/22/2022

Distribution Page

Report Number: J5211361.0067W
Service Date: 05/04/22
Report Date: 07/22/22
Task:

15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

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(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0067Z
Service Date: 05/04/22
Report Date: 07/27/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 05/04/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #34

Laboratory Test Data

Test Procedure: ASTM D1557
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

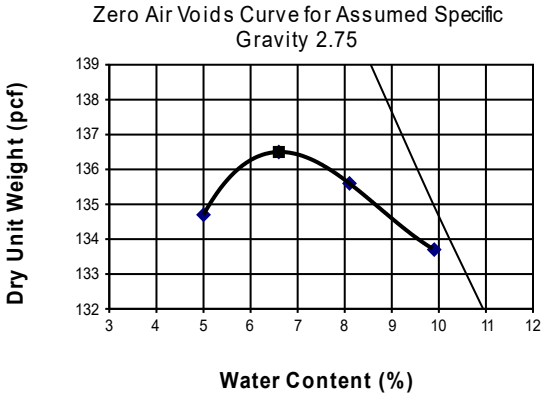
USCS:

Oversized Particles (%): 12.6
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **136.5**
Optimum Water Content (%): **6.6**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.1**
Optimum Water Content (%): **7.6**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:
Report Distribution:

See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0067Z
Service Date: 05/04/22
Report Date: 07/27/22
Task:

15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
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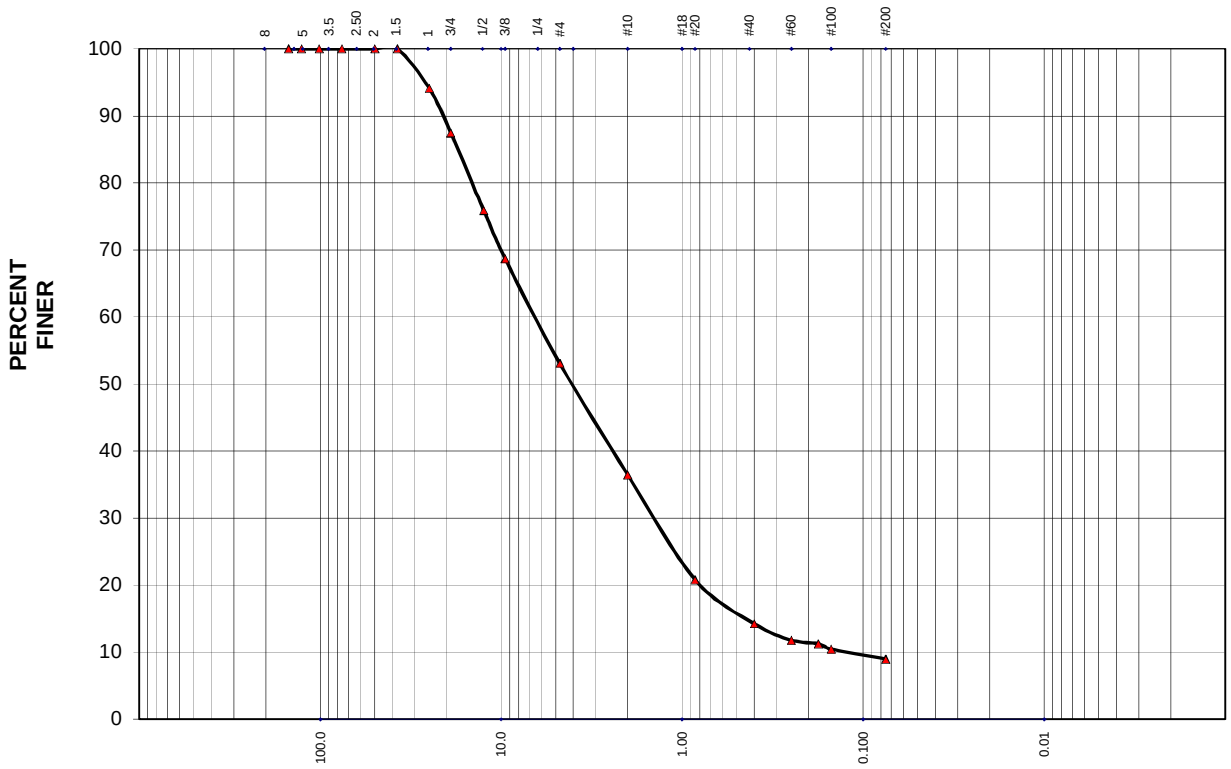
(1) Geosyntec Consultants, Paul Botek

(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	
		37.7	35.4	26.9	Silt (>0.002mm)	Clay (<0.002mm)
0.0	46.9		% Sand	44.1	9.0	

Classification: Imported - PENNDOT Approved Material

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"	635.00	94			
19.0	3/4"	1350.00	87			
12.5	1/2"	2595.00	76			
9.5	3/8"	3370.00	69			
4.75	#4	5045.00	53			
2.00	#10	230.34	36			
0.850	#20	446.49	21			
0.400	#40	537.20	14			
0.250	#60	571.38	12			
0.177	#80	578.81	11			
0.150	#100	589.70	10			
0.075	#200	610.60	9			

Total Dry Wt. 10755 g
Split Wt. 734.52 g

Project: **Elmira High School Football Field**	Project No.: **J5211361**	Date: **7/27/2022**
Location: Elmira, New York	Specification: ASTM C136	
Source Lawrenceville Quarry	Sample #34	

Terracon
15 Marway Circle, Suite 2B
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585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 7/27/2022

Distribution Page

Report Number: J5211361.0067Y
Service Date: 05/04/22
Report Date: 07/27/22
Task:

15 Marway Cir, Ste 2B
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Distribution List

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(1) Geosyntec Consultants, Brian Harris

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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

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(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0112A
Service Date: 07/27/22
Report Date: 07/27/22

Terracon
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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 05/04/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawerenceville Quarry

Sample Description: PENNDOT Approved Material Sample #35

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

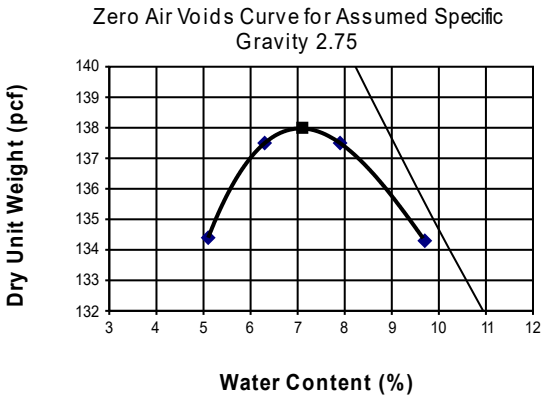
USCS:

Oversized Particles (%): 12.4
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.0**
Optimum Water Content (%): **7.1**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.9**
Optimum Water Content (%): **8.0**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:

See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0112A
Service Date: 07/27/22
Report Date: 07/27/22
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

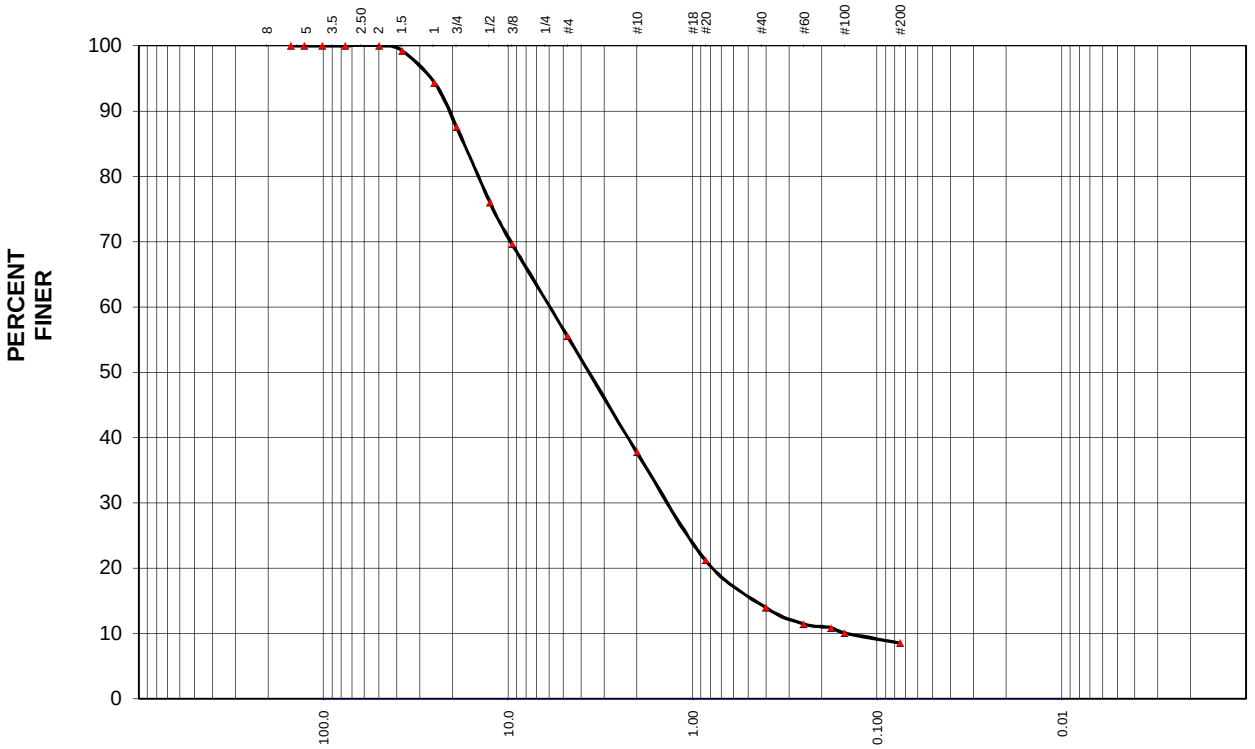
(1) Geosyntec Consultants, Paul Botek

(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	
		37.8	35.2	27.0	Silt (>0.002mm)	Clay (<0.002mm)
0.0	44.5		% Sand	46.9	8.6	

Classification: Imported - PENNDOT Approved Material

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"	80.00	99			
25.0	1"	585.00	94			
19.0	3/4"	1285.00	88			
12.5	1/2"	2490.00	76			
9.5	3/8"	3145.00	70			
4.75	#4	4610.00	55			
2.00	#10	156.12	38			
0.850	#20	301.66	21			
0.400	#40	365.48	14			
0.250	#60	387.34	11			
0.177	#80	392.47	11			
0.150	#100	399.55	10			
0.075	#200	412.97	9			

Total Dry Wt. 10355 g
Split Wt. 488.24 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**7/27/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #35			

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

Tested By: K. Lemcke Date: 7/27/2022

Distribution Page

Report Number: J5211361.0112
Service Date: 07/27/22
Report Date: 07/27/22
Task:

15 Marway Cir, Ste 2B
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585-247-3471

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(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0112B
Service Date: 07/27/22
Report Date: 07/28/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 05/04/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #36

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

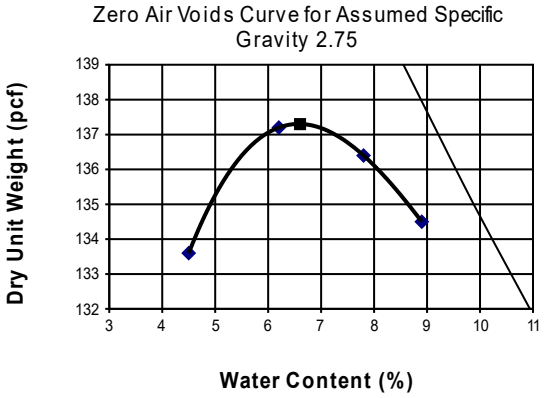
USCS:

Oversized Particles (%): 12.3
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **137.3**
Optimum Water Content (%): **6.6**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.1**
Optimum Water Content (%): **7.4**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:
Report Distribution:

See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0112B
Service Date: 07/27/22
Report Date: 07/28/22
Task:

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

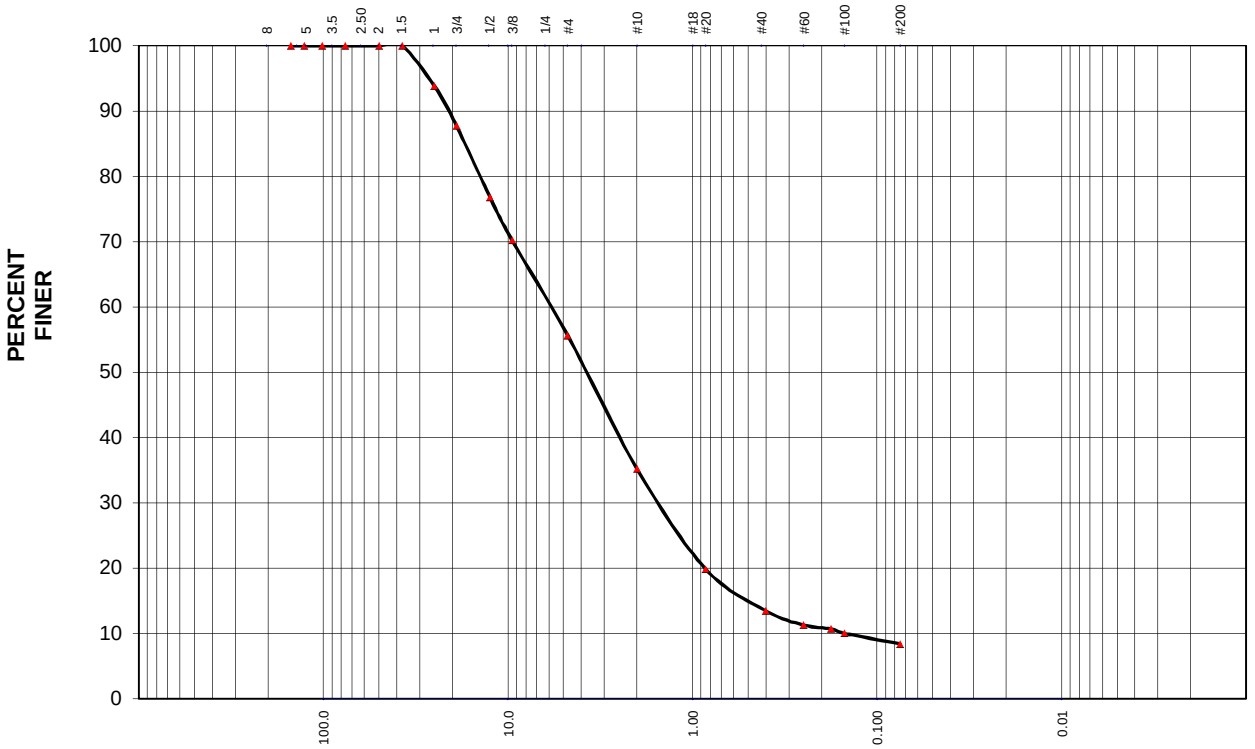
(1) Geosyntec Consultants, Paul Botek

(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	
		43.2	32.5	24.3	Silt (>0.002mm)	Clay (<0.002mm)
0.0	44.3		% Sand	47.3	8.4	

Classification: Imported - PENNDOT Approved Material

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"	740.00	94			
19.0	3/4"	1460.00	88			
12.5	1/2"	2765.00	77			
9.5	3/8"	3545.00	70			
4.75	#4	5275.00	56			
2.00	#10	208.65	35			
0.850	#20	365.54	20			
0.400	#40	430.85	13			
0.250	#60	453.16	11			
0.177	#80	459.25	11			
0.150	#100	466.24	10			
0.075	#200	482.74	8			

Total Dry Wt. 11895 g
Split Wt. 568.58 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**7/28/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #36			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 7/28/2022

Distribution Page

Report Number: J5211361.0112C
Service Date: 07/27/22
Report Date: 07/28/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0111B
Service Date: 07/26/22
Report Date: 08/11/22 Revision 1 - 1

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 07/26/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: NYSDOT approved material sample #39

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

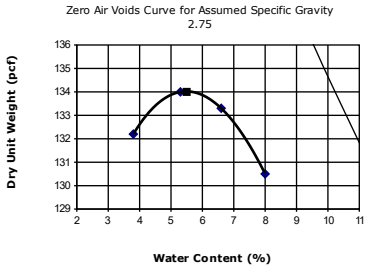
USCS:

Oversized Particles (%): 18.0
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **134.0**
Optimum Water Content (%): **5.5**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **128.6**
Optimum Water Content (%): **6.6**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0111B
Service Date: 07/26/22
Report Date: 08/11/22 Revision 1 - 1
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

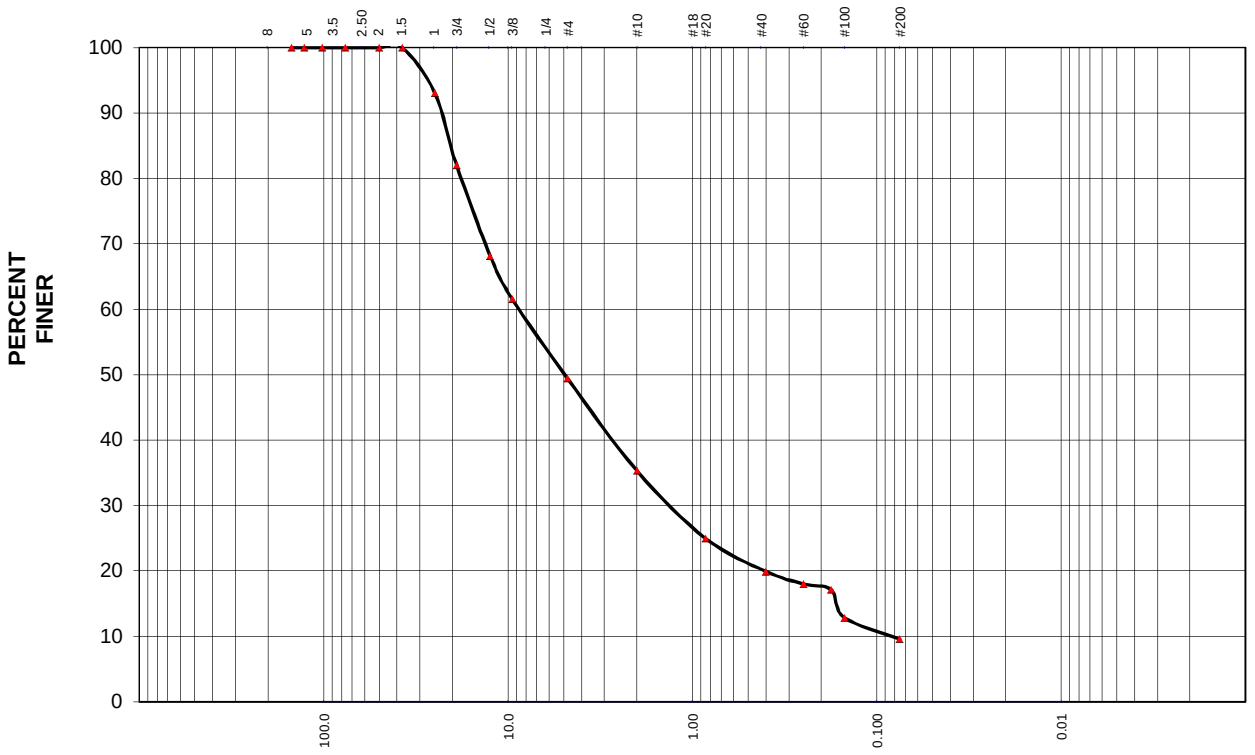
(1) Geosyntec Consultants, Paul Botek

(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	
		35.4	26.0	38.6	Silt (>0.002mm)	Clay (<0.002mm)
0.0	50.6		% Sand	39.8	9.6	

Classification: Imported - NYSDOT Approved Material

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"	1075.00	93			
19.0	3/4"	2810.00	82			
12.5	1/2"	4975.00	68			
9.5	3/8"	6000.00	62			
4.75	#4	7905.00	49			
2.00	#10	191.53	35			
0.850	#20	331.99	25			
0.400	#40	400.76	20			
0.250	#60	426.77	18			
0.177	#80	438.91	17			
0.150	#100	496.99	13			
0.075	#200	541.09	10			

Total Dry Wt. 15620 g
Split Wt. 671.86 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**8/10/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #39			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 8/9/2022

Distribution Page

Report Number: J5211361.0111A
Service Date: 07/26/22
Report Date: 08/11/22 Revision 1 - 1
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0111D
Service Date: 07/26/22
Report Date: 08/13/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

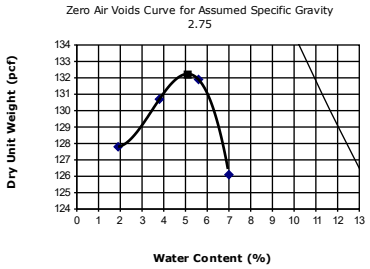
Sample Information

Sample Date: 07/26/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: NYSDOT Approved Material Sample #40

Laboratory Test Data

	Result	Specifications
Test Procedure:	ASTM D698	
Test Method:	Method C	
Sample Preparation:	Wet	
Rammer Type:	Mechanical	
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		
Oversized Particles (%):	11.1	
Moisture (%):	0.5	
Sieve for Oversize Fraction:	3/4	
Assumed Bulk Specific Gravity of Oversized Particles:	2.65	



Corrected for Oversized Particles (ASTM D4718)

Maximum Dry Unit Weight (pcf):	**132.2**
Optimum Water Content (%):	**5.1**

Uncorrected Values

Maximum Dry Unit Weight (pcf):	**128.9**
Optimum Water Content (%):	**5.6**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0111D
Service Date: 07/26/22
Report Date: 08/13/22
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

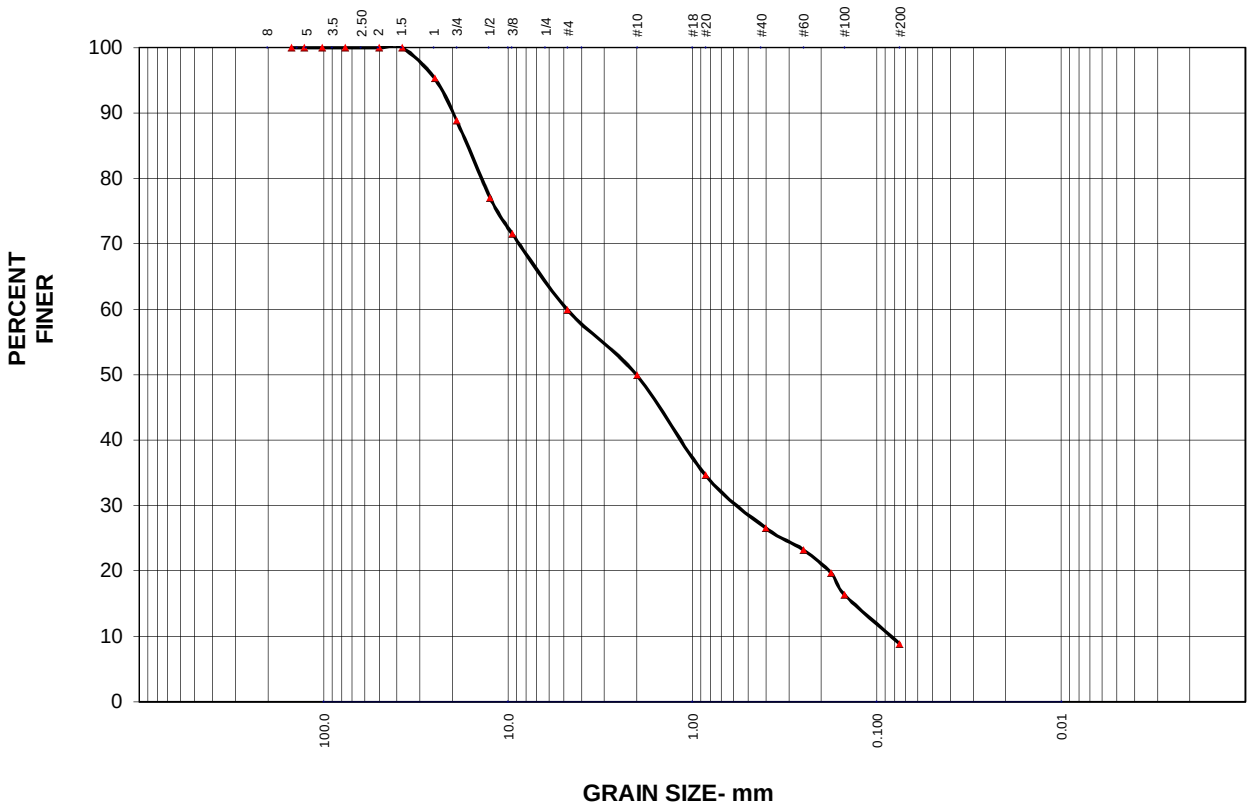
(1) Geosyntec Consultants, Paul Botek

(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	
		19.6	29.9	50.5	Silt (>0.002mm)	Clay (<0.002mm)
0.0	40.1	% Sand		51.1	8.8	

Classification: Imported - NYSDOT Approved Material

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"	620.00	95			
19.0	3/4"	1470.00	89			
12.5	1/2"	3025.00	77			
9.5	3/8"	3755.00	72			
4.75	#4	5290.00	60			
2.00	#10	106.99	50			
0.850	#20	270.40	35			
0.400	#40	357.09	27			
0.250	#60	392.48	23			
0.177	#80	430.48	20			
0.150	#100	466.02	16			
0.075	#200	546.74	9			

Total Dry Wt. 13190 g
Split Wt. 641.41 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**8/13/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #40			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: C. Monteleone Date: 8/10/2022

Distribution Page

Report Number: J5211361.0111C
Service Date: 07/26/22
Report Date: 08/13/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0111F
Service Date: 07/26/22
Report Date: 08/16/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

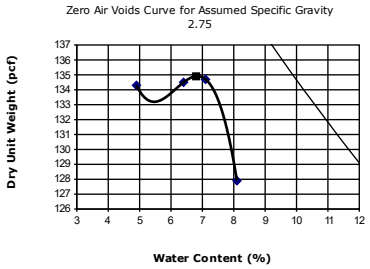
Sample Information

Sample Date: 07/26/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample 41

Laboratory Test Data

	Result	Specifications
Test Procedure:	ASTM D698	
Test Method:	Method C	
Sample Preparation:	Wet	
Rammer Type:	Mechanical	
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		
Oversized Particles (%):	23.9	
Moisture (%):	0.5	
Sieve for Oversize Fraction:	3/4	
Assumed Bulk Specific Gravity of Oversized Particles:	2.65	



Corrected for Oversized Particles (ASTM D4718)

Maximum Dry Unit Weight (pcf):	**134.9**
Optimum Water Content (%):	**6.8**

Uncorrected Values

Maximum Dry Unit Weight (pcf):	**127.6**
Optimum Water Content (%):	**8.8**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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Distribution Page

Report Number: J5211361.0111F
Service Date: 07/26/22
Report Date: 08/16/22
Task:

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

Distribution List

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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

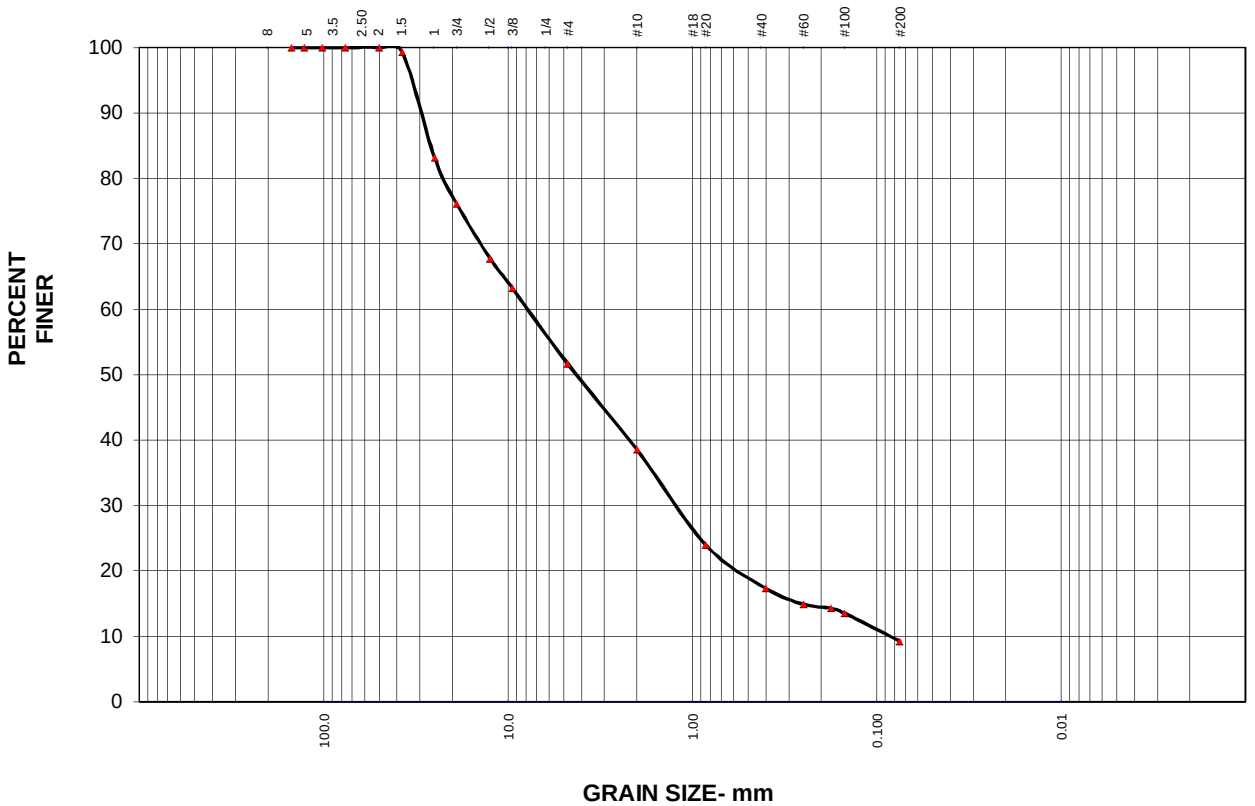
(1) Geosyntec Consultants, Paul Botek

(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	
		31.0	34.3	34.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	48.3		% Sand	42.4	9.3	

Classification: Imported - PENNDOT Approved Material

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"	105.00	99			
25.0	1"	2620.00	83			
19.0	3/4"	3715.00	76			
12.5	1/2"	5020.00	68			
9.5	3/8"	5720.00	63			
4.75	#4	7520.00	52			
2.00	#10	100.20	39			
0.850	#20	211.15	24			
0.400	#40	262.15	17			
0.250	#60	280.72	15			
0.177	#80	285.44	14			
0.150	#100	291.09	14			
0.075	#200	323.71	9			

Total Dry Wt. 15565 g
Split Wt. 394.49 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**8/16/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #41			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: C. Monteleone Date: 8/15/2022

Distribution Page

Report Number: J5211361.0111E
Service Date: 07/26/22
Report Date: 08/16/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0111H
Service Date: 07/26/22
Report Date: 08/17/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 07/26/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #42

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

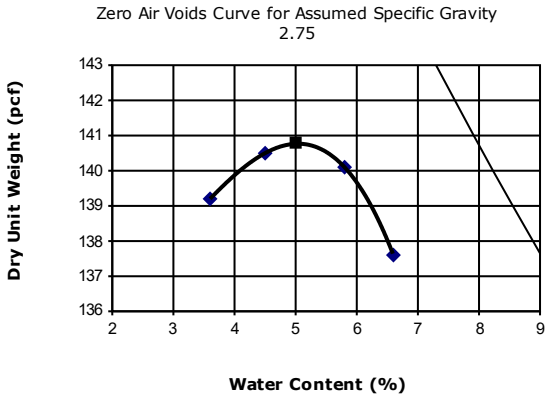
USCS:

Oversized Particles (%): 35.0
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.8**
Optimum Water Content (%): **5.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **130.2**
Optimum Water Content (%): **7.5**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: _____

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0111H
Service Date: 07/26/22
Report Date: 08/17/22
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

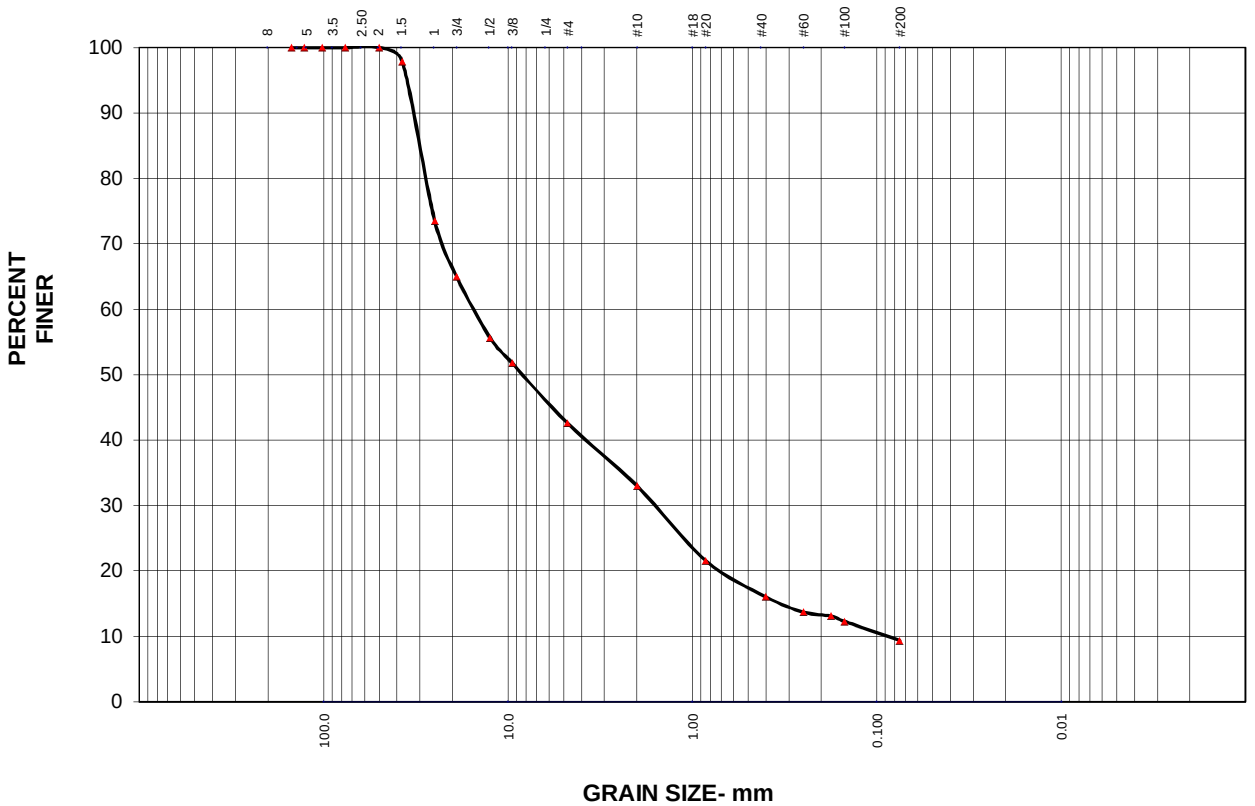
(1) Geosyntec Consultants, Paul Botek

(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	
		28.7	34.3	36.9	Silt (>0.002mm)	Clay (<0.002mm)
0.0	57.4		% Sand	33.2	9.3	

Classification: Imported - PENNDOT Approved Material

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"	280.00	98			
25.0	1"	3475.00	74			
19.0	3/4"	4600.00	65			
12.5	1/2"	5830.00	56			
9.5	3/8"	6335.00	52			
4.75	#4	7545.00	43			
2.00	#10	132.56	33			
0.850	#20	290.96	22			
0.400	#40	368.20	16			
0.250	#60	400.64	14			
0.177	#80	409.15	13			
0.150	#100	420.14	12			
0.075	#200	461.27	9			

Total Dry Wt. 13135 g
Split Wt. 591.04 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**8/16/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #42			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: C. Monteleone Date: 8/15/2022

Distribution Page

Report Number: J5211361.0111G
Service Date: 07/26/22
Report Date: 08/17/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0111J
Service Date: 07/26/22
Report Date: 08/20/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 07/26/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #43

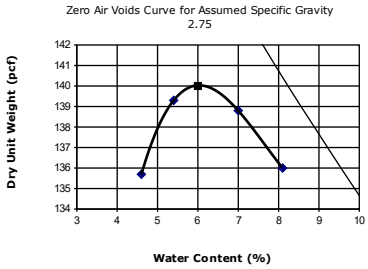
Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 20.3
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65



Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.0**
Optimum Water Content (%): **6.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.7**
Optimum Water Content (%): **7.4**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0111J
Service Date: 07/26/22
Report Date: 08/20/22
Task:

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

Distribution List

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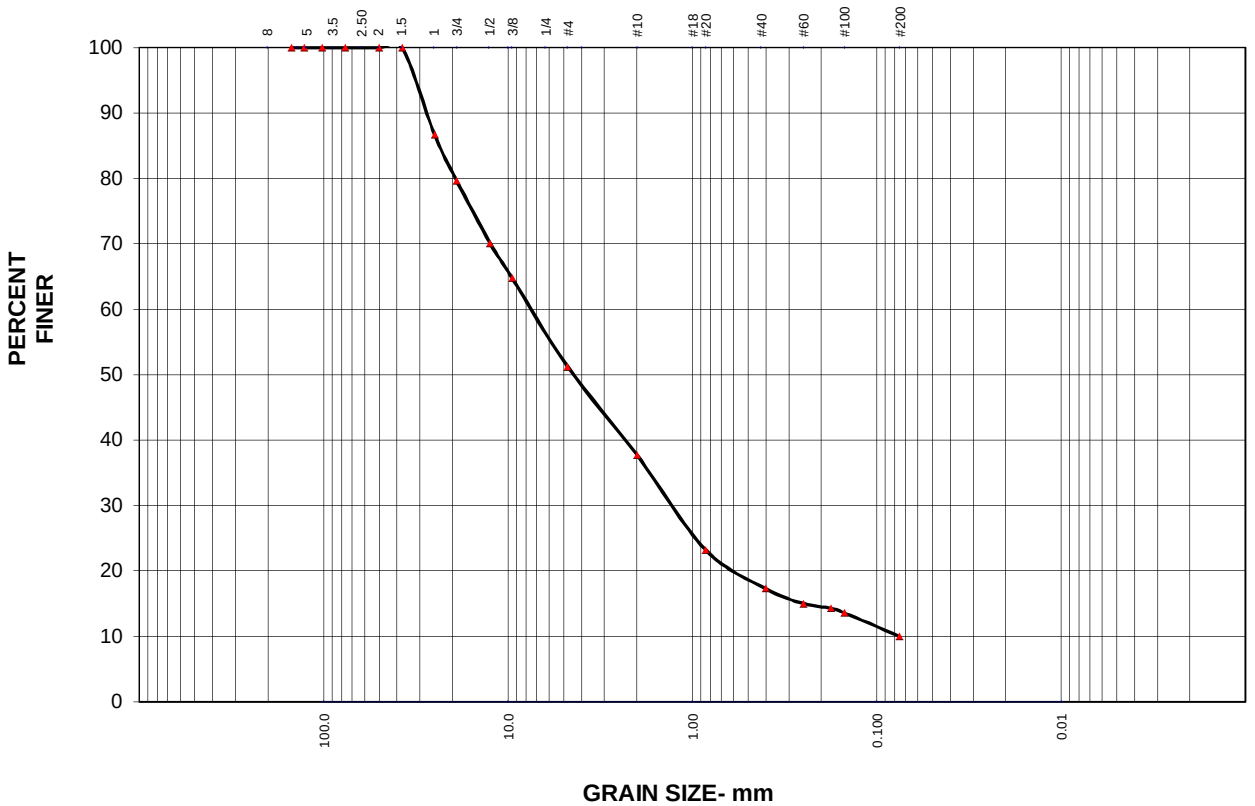
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(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

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



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		32.8	35.1	32.1	Silt (>0.002mm)	Clay (<0.002mm)
0.0	48.8		% Sand	41.2	10.0	

Classification: Imported - PENNDOT Approved Material

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"	1220.00	87			
19.0	3/4"	1860.00	80			
12.5	1/2"	2740.00	70			
9.5	3/8"	3225.00	65			
4.75	#4	4465.00	51			
2.00	#10	170.38	38			
0.850	#20	353.12	23			
0.400	#40	428.17	17			
0.250	#60	457.15	15			
0.177	#80	466.16	14			
0.150	#100	475.08	14			
0.075	#200	520.22	10			

Total Dry Wt. 9155 g
Split Wt. 646.6 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**8/19/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #43			

Terracon
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http://www.terracon.com/

Remarks:

Tested By: C. Monteleone Date: 8/18/2022

Distribution Page

Report Number: J5211361.0111I
Service Date: 07/26/22
Report Date: 08/20/22
Task:

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

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(1) Geosyntec Consultants, Colin Lamas

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(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0111L
Service Date: 07/26/22
Report Date: 08/20/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 07/26/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #44

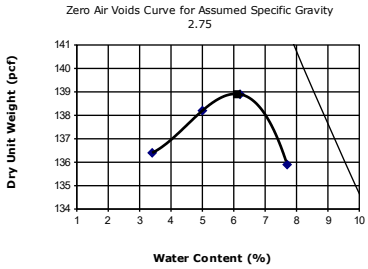
Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 20.4
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65



Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.9**
Optimum Water Content (%): **6.1**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.4**
Optimum Water Content (%): **7.5**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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Distribution Page

Report Number: J5211361.0111L
Service Date: 07/26/22
Report Date: 08/20/22
Task:

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Distribution List

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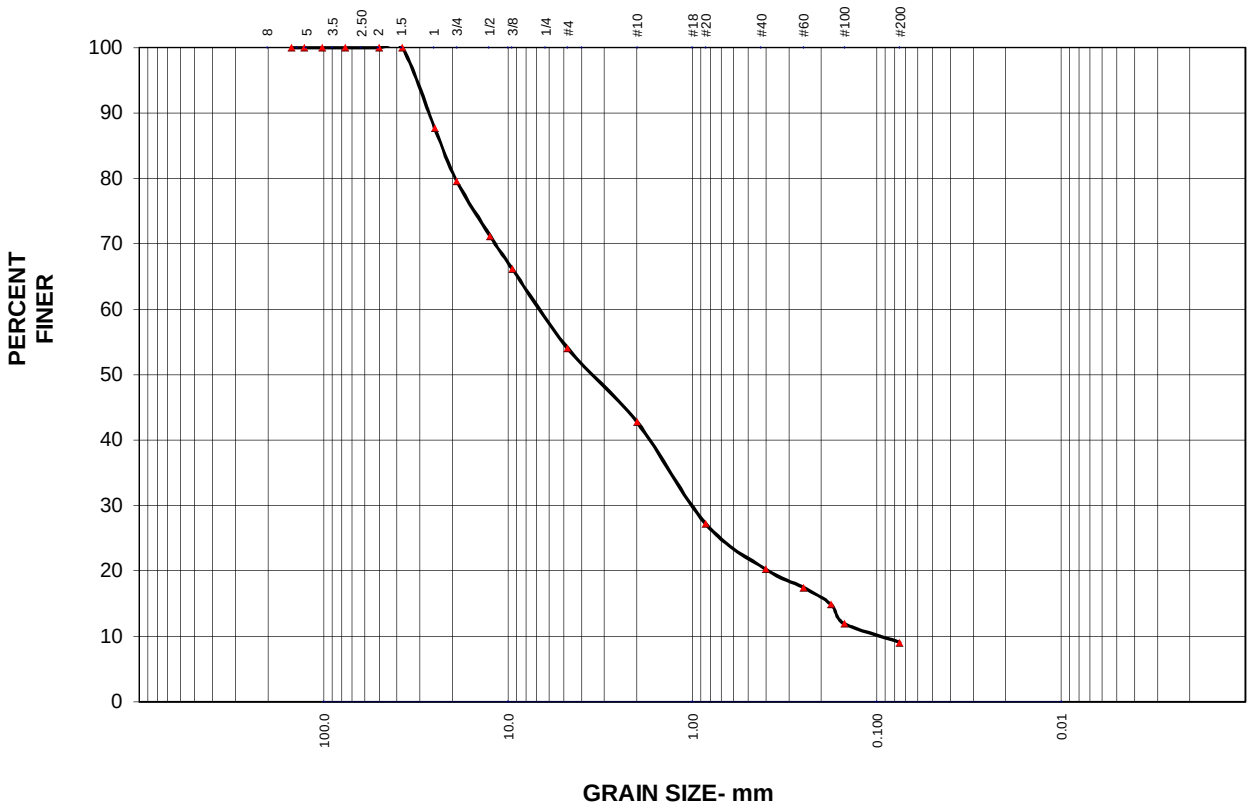
(1) Geosyntec Consultants, Paul Botek

(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	
		25.0	34.6	40.4	Silt (>0.002mm)	Clay (<0.002mm)
0.0	46.0		% Sand	45.0	9.1	

Classification: Imported - PENNDOT Approved Material

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"	1435.00	88			
19.0	3/4"	2385.00	80			
12.5	1/2"	3370.00	71			
9.5	3/8"	3955.00	66			
4.75	#4	5375.00	54			
2.00	#10	141.70	43			
0.850	#20	337.32	27			
0.400	#40	425.46	20			
0.250	#60	460.45	17			
0.177	#80	492.81	15			
0.150	#100	530.02	12			
0.075	#200	566.09	9			

Total Dry Wt. 11695 g
Split Wt. 680.38 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**8/19/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #44			

Terracon
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http://www.terracon.com/

Remarks:

Tested By: C. Monteleone Date: 8/18/2022

Distribution Page

Report Number: J5211361.0111K
Service Date: 07/26/22
Report Date: 08/20/22
Task:

15 Marway Cir, Ste 2B
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(1) Geosyntec Consultants, Paul Brookner

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LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0111N
Service Date: 07/26/22
Report Date: 08/22/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 07/26/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #45

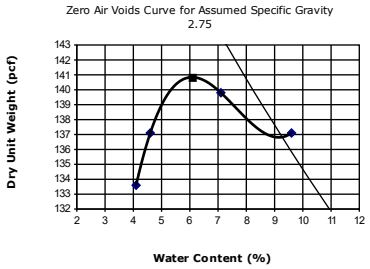
Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 22.7
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65



Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.8**
Optimum Water Content (%): **6.1**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.1**
Optimum Water Content (%): **7.7**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

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Service Date: 07/26/22
Report Date: 08/22/22
Task:

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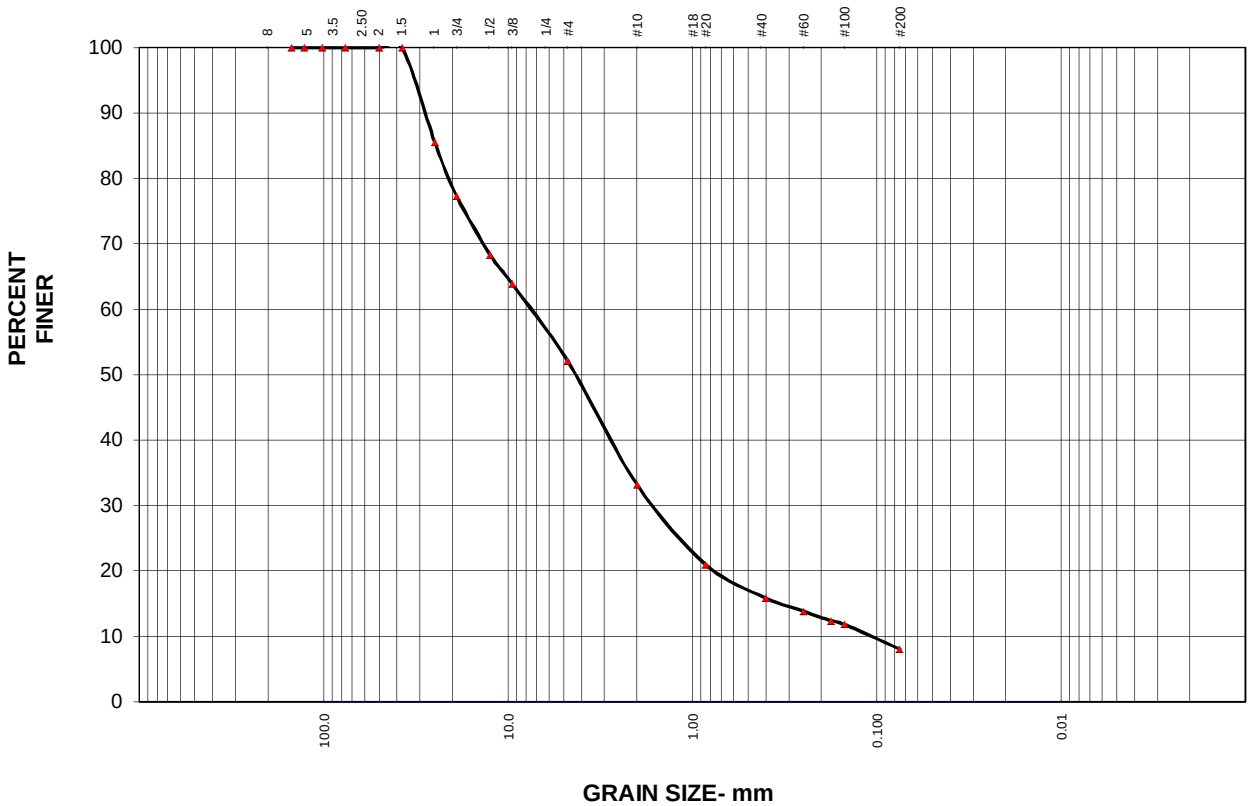
(1) Geosyntec Consultants, Paul Botek

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(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	
		42.9	27.7	29.4	Silt (>0.002mm)	Clay (<0.002mm)
0.0	47.9		% Sand	44.0	8.1	

Classification: Imported - PENNDOT Approved Material

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"	2135.00	86			
19.0	3/4"	3360.00	77			
12.5	1/2"	4695.00	68			
9.5	3/8"	5350.00	64			
4.75	#4	7095.00	52			
2.00	#10	240.08	33			
0.850	#20	395.23	21			
0.400	#40	460.83	16			
0.250	#60	486.29	14			
0.177	#80	504.85	12			
0.150	#100	511.85	12			
0.075	#200	559.89	8			

Total Dry Wt. 14810 g
Split Wt. 662.42 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**8/22/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #45			

Terracon
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Rochester, NY 14624
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http://www.terracon.com/

Remarks:

Tested By: C. Monteleone Date: 8/18/2022

Distribution Page

Report Number: J5211361.0111M
Service Date: 07/26/22
Report Date: 08/22/22
Task:

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(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

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(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0111P
Service Date: 07/26/22
Report Date: 08/22/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 07/26/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #46

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

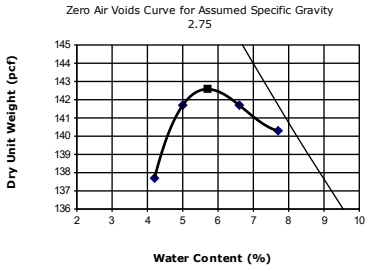
USCS:

Oversized Particles (%): 29.3
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **142.6**
Optimum Water Content (%): **5.7**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.9**
Optimum Water Content (%): **7.8**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0111P
Service Date: 07/26/22
Report Date: 08/22/22
Task:

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(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

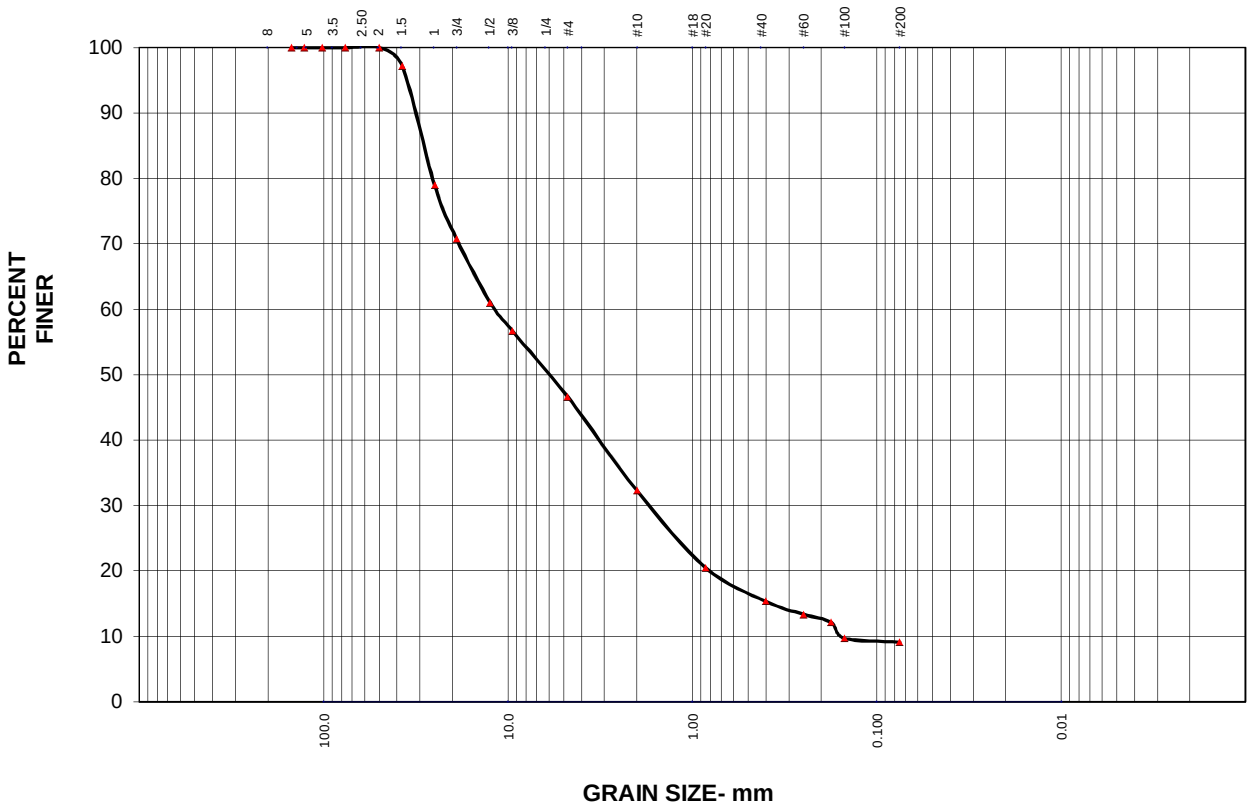
(1) Geosyntec Consultants, Paul Botek

(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	
		38.2	31.4	30.4	Silt (>0.002mm)	Clay (<0.002mm)
0.0	53.4		% Sand	37.5	9.1	

Classification: Imported - PENNDOT Approved Material

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"	480.00	97			
25.0	1"	3625.00	79			
19.0	3/4"	5045.00	71			
12.5	1/2"	6720.00	61			
9.5	3/8"	7460.00	57			
4.75	#4	9200.00	47			
2.00	#10	170.75	32			
0.850	#20	310.95	20			
0.400	#40	372.27	15			
0.250	#60	395.78	13			
0.177	#80	410.33	12			
0.150	#100	439.48	10			
0.075	#200	446.62	9			

Total Dry Wt. 17235 g
Split Wt. 554.96 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**8/22/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #46			

Terracon
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Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: C. Monteleone Date: 8/19/2022

Distribution Page

Report Number: J5211361.0111O
Service Date: 07/26/22
Report Date: 08/22/22
Task:

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Distribution List

(1) Geosyntec Consultants, Miranda Stelmach

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(1) Geosyntec Consultants, Brian Harris

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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0111R
Service Date: 07/26/22
Report Date: 08/23/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 07/26/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #47

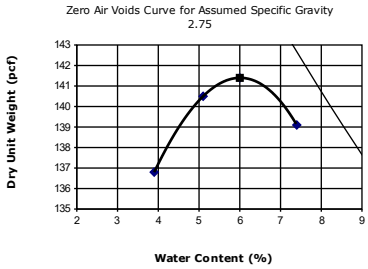
Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 22.0
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65



Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **141.4**
Optimum Water Content (%): **6.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.8**
Optimum Water Content (%): **7.6**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0111R
Service Date: 07/26/22
Report Date: 08/23/22
Task:

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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

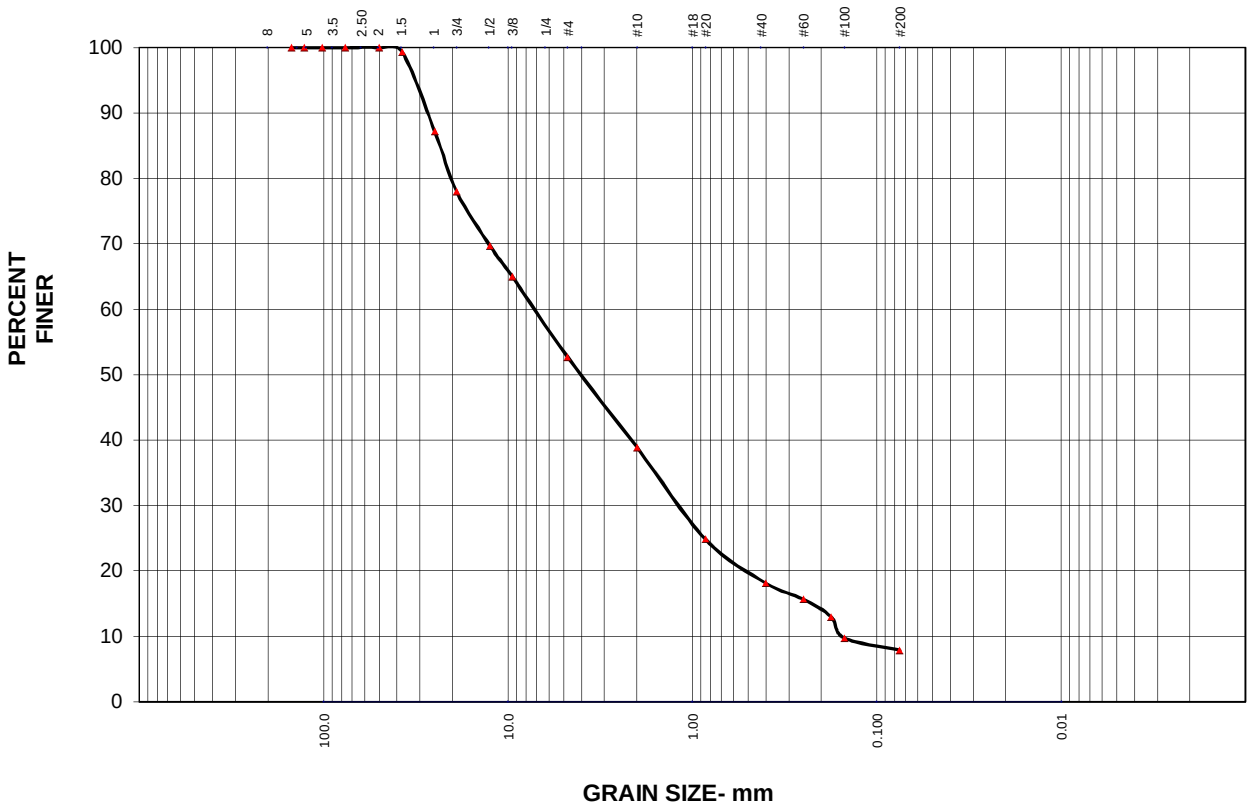
(1) Geosyntec Consultants, Paul Botek

(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	
		30.8	31.4	37.9	Silt (>0.002mm)	Clay (<0.002mm)
0.0	47.3		% Sand	44.8	7.9	

Classification: Imported - PENNDOT Approved Material

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"	110.00	99			
25.0	1"	2030.00	87			
19.0	3/4"	3505.00	78			
12.5	1/2"	4830.00	70			
9.5	3/8"	5570.00	65			
4.75	#4	7530.00	53			
2.00	#10	147.33	39			
0.850	#20	297.43	25			
0.400	#40	368.88	18			
0.250	#60	395.19	16			
0.177	#80	423.93	13			
0.150	#100	458.68	10			
0.075	#200	478.67	8			

Total Dry Wt. 15915 g
Split Wt. 562.73 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**8/23/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #47			

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Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: C. Monteleone Date: 8/22/2022

Distribution Page

Report Number: J5211361.0111Q
Service Date: 07/26/22
Report Date: 08/23/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0125B
Service Date: 07/27/22
Report Date: 08/26/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 07/27/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #48

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

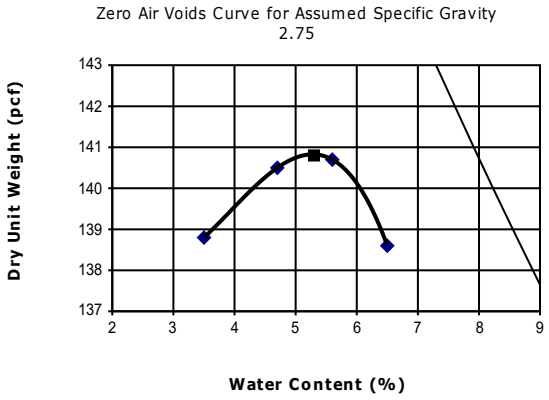
USCS:

Oversized Particles (%): 25.7
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.8**
Optimum Water Content (%): **5.3**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.0**
Optimum Water Content (%): **6.9**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0125B
Service Date: 07/27/22
Report Date: 08/26/22
Task:

15 Marway Cir, Ste 2B
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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

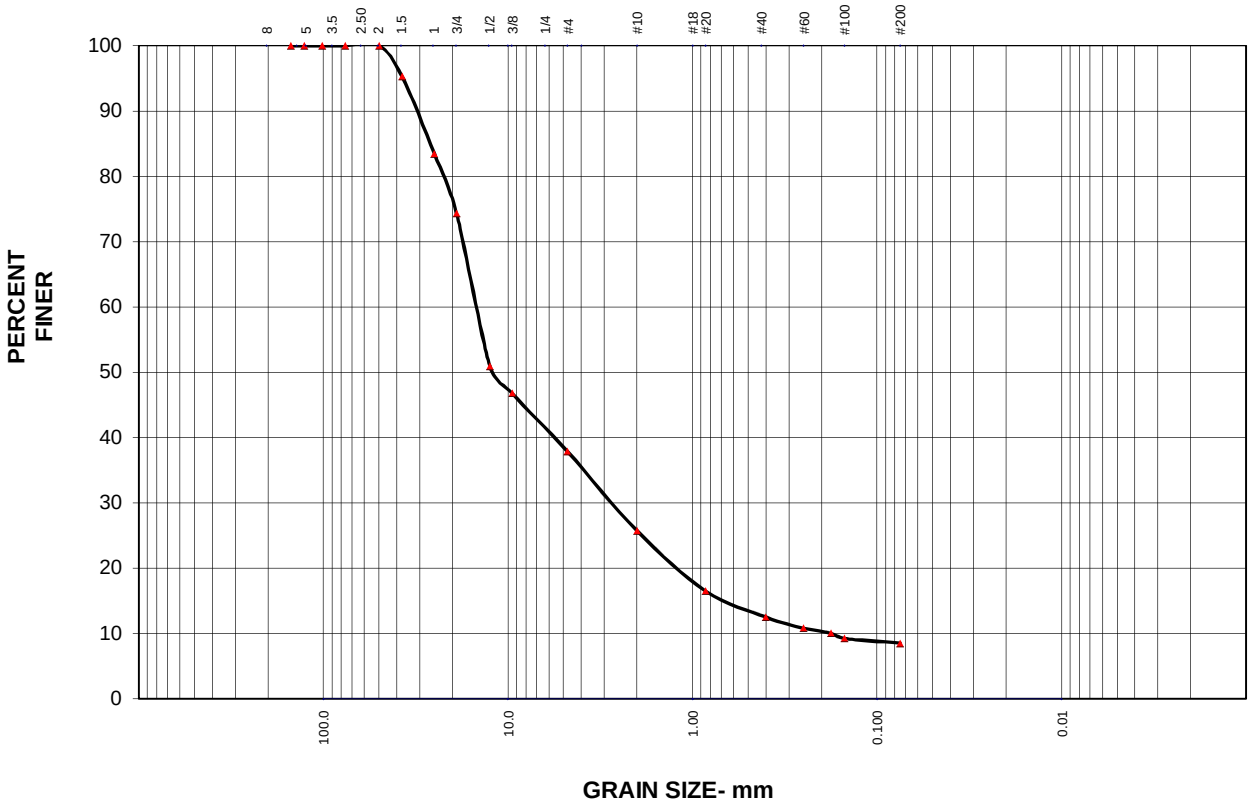
(1) Geosyntec Consultants, Paul Botek

(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	
		41.4	31.5	27.2	Silt (>0.002mm)	Clay (<0.002mm)
0.0	62.1		% Sand	29.3	8.5	

Classification: Imported - PENNDOT Approved Material

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"	670.00	95			
25.0	1"	2360.00	83			
19.0	3/4"	3655.00	74			
12.5	1/2"	6985.00	51			
9.5	3/8"	7570.00	47			
4.75	#4	8835.00	38			
2.00	#10	134.84	26			
0.850	#20	237.38	17			
0.400	#40	281.66	13			
0.250	#60	300.61	11			
0.177	#80	309.45	10			
0.150	#100	318.11	9			
0.075	#200	326.04	9			

Total Dry Wt. 14220 g
Split Wt. 420.78 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**8/26/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #48			

Terracon
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Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: C. Monteleone Date: 8/22/2022

Distribution Page

Report Number: J5211361.0125A
Service Date: 07/27/22
Report Date: 08/26/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0125C
Service Date: 07/27/22
Report Date: 08/26/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 07/27/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved material Sample #49

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

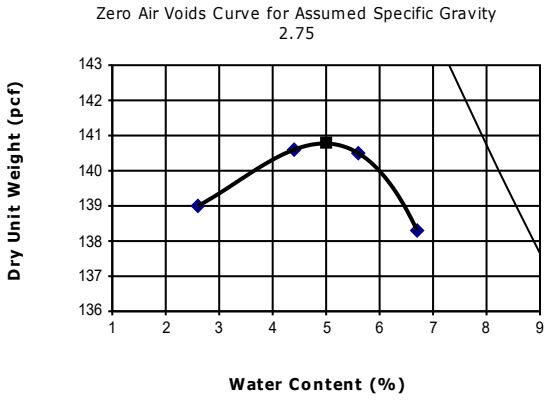
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 26.9
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.8**
Optimum Water Content (%): **5.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.4**
Optimum Water Content (%): **6.7**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0125C
Service Date: 07/27/22
Report Date: 08/26/22
Task:

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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

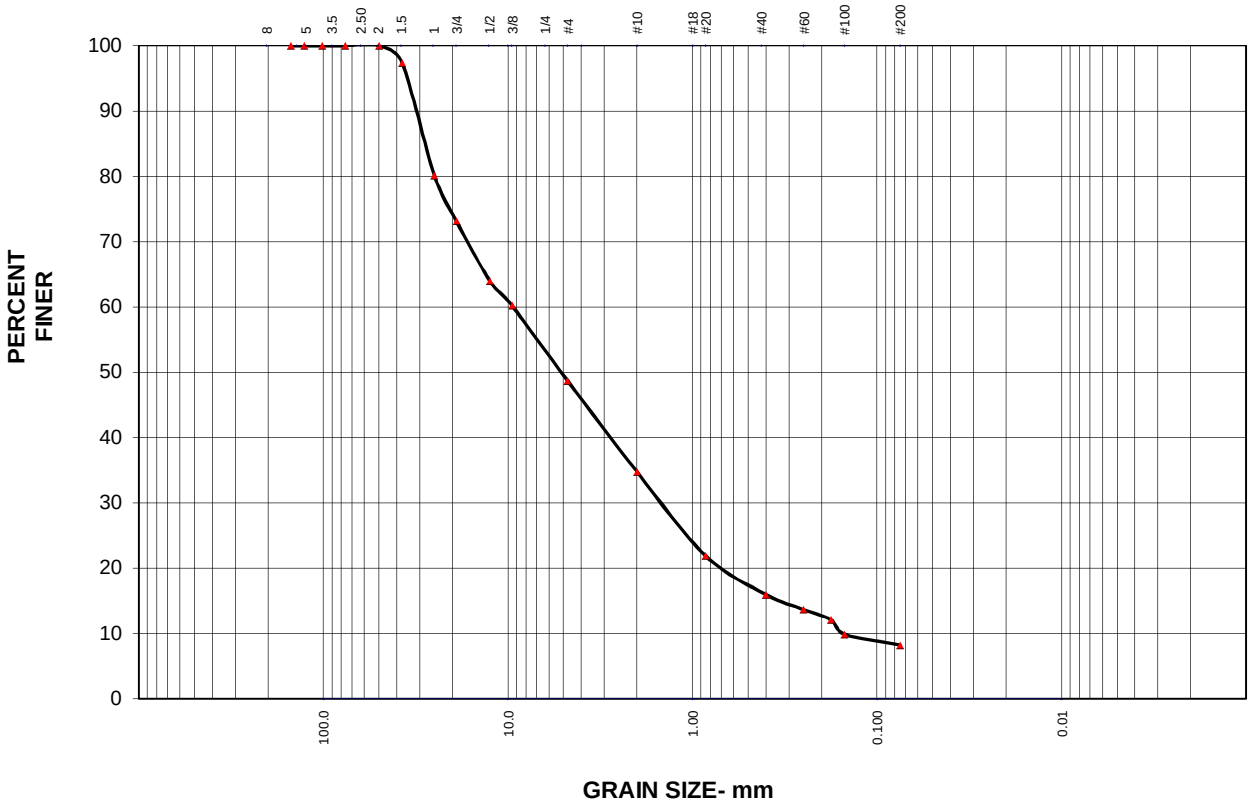
(1) Geosyntec Consultants, Paul Botek

(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	
		34.4	31.8	33.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	51.3		% Sand	40.5	8.2	

Classification: Imported - PENNDOT Approved Material

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"	375.00	97			
25.0	1"	2855.00	80			
19.0	3/4"	3855.00	73			
12.5	1/2"	5175.00	64			
9.5	3/8"	5710.00	60			
4.75	#4	7360.00	49			
2.00	#10	116.29	35			
0.850	#20	223.71	22			
0.400	#40	273.08	16			
0.250	#60	292.50	14			
0.177	#80	305.66	12			
0.150	#100	323.99	10			
0.075	#200	337.92	8			

Total Dry Wt. 14345 g
Split Wt. 406.5 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**8/26/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #49			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 8/26/2022

Distribution Page

Report Number: J5211361.0125D
Service Date: 07/27/22
Report Date: 08/26/22
Task:

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

Distribution List

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(1) Geosyntec Consultants, Aron Krasnopoler

(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0125F
Service Date: 07/27/22
Report Date: 08/30/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 07/27/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved material Sample #50

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

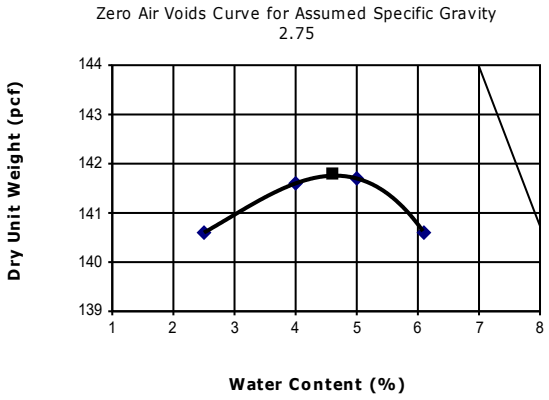
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 28.0
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **141.8**
Optimum Water Content (%): **4.6**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.3**
Optimum Water Content (%): **6.3**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0125F
Service Date: 07/27/22
Report Date: 08/30/22
Task:

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Rochester, NY 14624-2300
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Distribution List

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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

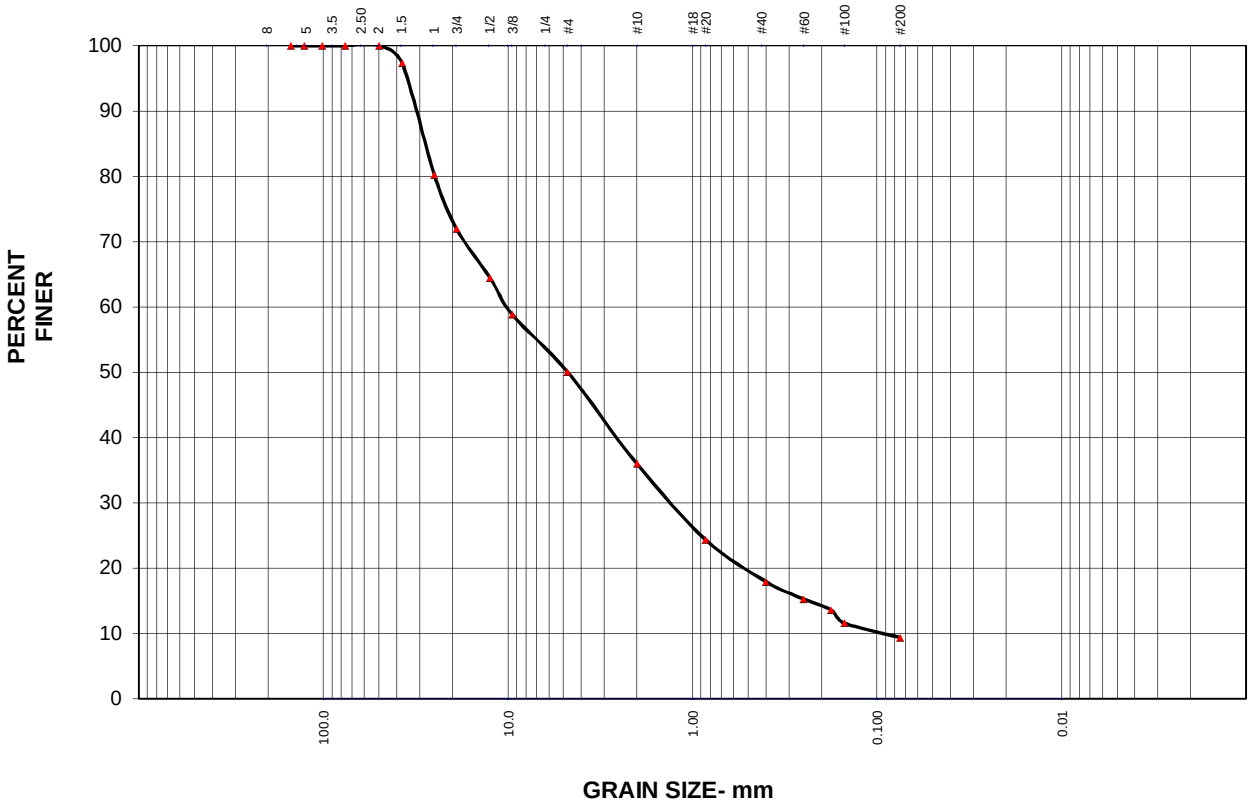
(1) Geosyntec Consultants, Paul Botek

(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	
		34.6	28.5	36.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	50.0		% Sand	40.7	9.4	

Classification: Imported - PENNDOT Approved Material

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"	405.00	97			
25.0	1"	3005.00	80			
19.0	3/4"	4250.00	72			
12.5	1/2"	5395.00	64			
9.5	3/8"	6245.00	59			
4.75	#4	7580.00	50			
2.00	#10	121.39	36			
0.850	#20	221.48	24			
0.400	#40	276.93	18			
0.250	#60	299.70	15			
0.177	#80	314.47	14			
0.150	#100	331.72	12			
0.075	#200	350.64	9			

Total Dry Wt. 15175 g
Split Wt. 431.59 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**8/30/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #50			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 8/27/2022

Distribution Page

Report Number: J5211361.0125E
Service Date: 07/27/22
Report Date: 08/30/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0125H
Service Date: 07/27/22
Report Date: 08/30/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 07/27/22
Sampled By:
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #51

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

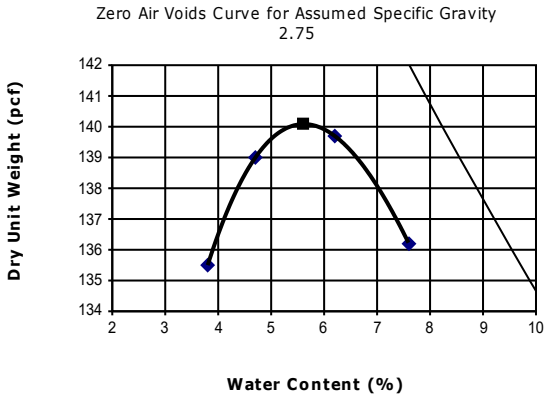
USCS:

Oversized Particles (%): 21.6
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.1**
Optimum Water Content (%): **5.6**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.5**
Optimum Water Content (%): **7.0**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0125H
Service Date: 07/27/22
Report Date: 08/30/22
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

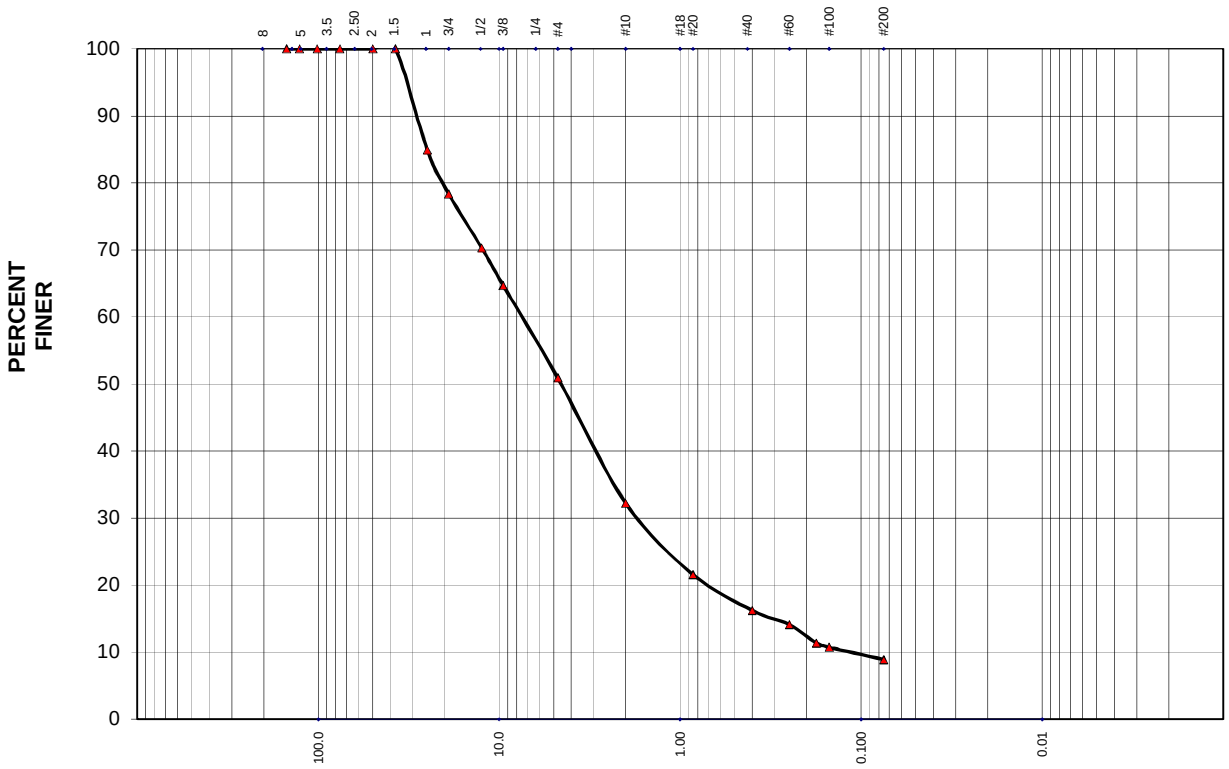
(1) Geosyntec Consultants, Paul Botek

(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	
		44.5	25.3	30.2	Silt (>0.002mm)	Clay (<0.002mm)
0.0	49.1		% Sand	42.0	8.9	

Classification: Imported - PENNDOT Approved Material

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"	2450.00	85			
19.0	3/4"	3510.00	78			
12.5	1/2"	4820.00	70			
9.5	3/8"	5725.00	65			
4.75	#4	7960.00	51			
2.00	#10	255.19	32			
0.850	#20	400.12	22			
0.400	#40	473.28	16			
0.250	#60	501.83	14			
0.177	#80	539.47	11			
0.150	#100	548.16	11			
0.075	#200	573.25	9			

Total Dry Wt. 16220 g
Split Wt. 694.58 g

Project: **Elmira High School Football Field**	Project No.: **J5211361**	Date: **8/30/2022**
Location: Elmira, New York	Specification: ASTM C136	
Source Lawrenceville Quarry	Sample #51	

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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 8/30/2022

Distribution Page

Report Number: J5211361.0125G
Service Date: 07/27/22
Report Date: 08/30/22
Task:

15 Marway Cir, Ste 2B
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Distribution List

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LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0125J
Service Date: 07/27/22
Report Date: 09/01/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 07/27/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #52

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

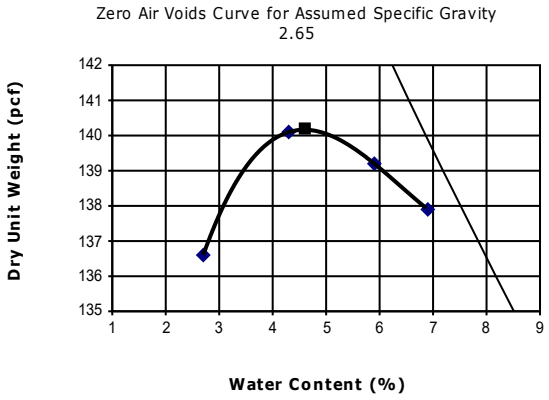
USCS:

Oversized Particles (%): 24.9
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.2**
Optimum Water Content (%): **4.6**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.4**
Optimum Water Content (%): **6.0**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0125J
Service Date: 07/27/22
Report Date: 09/01/22
Task:

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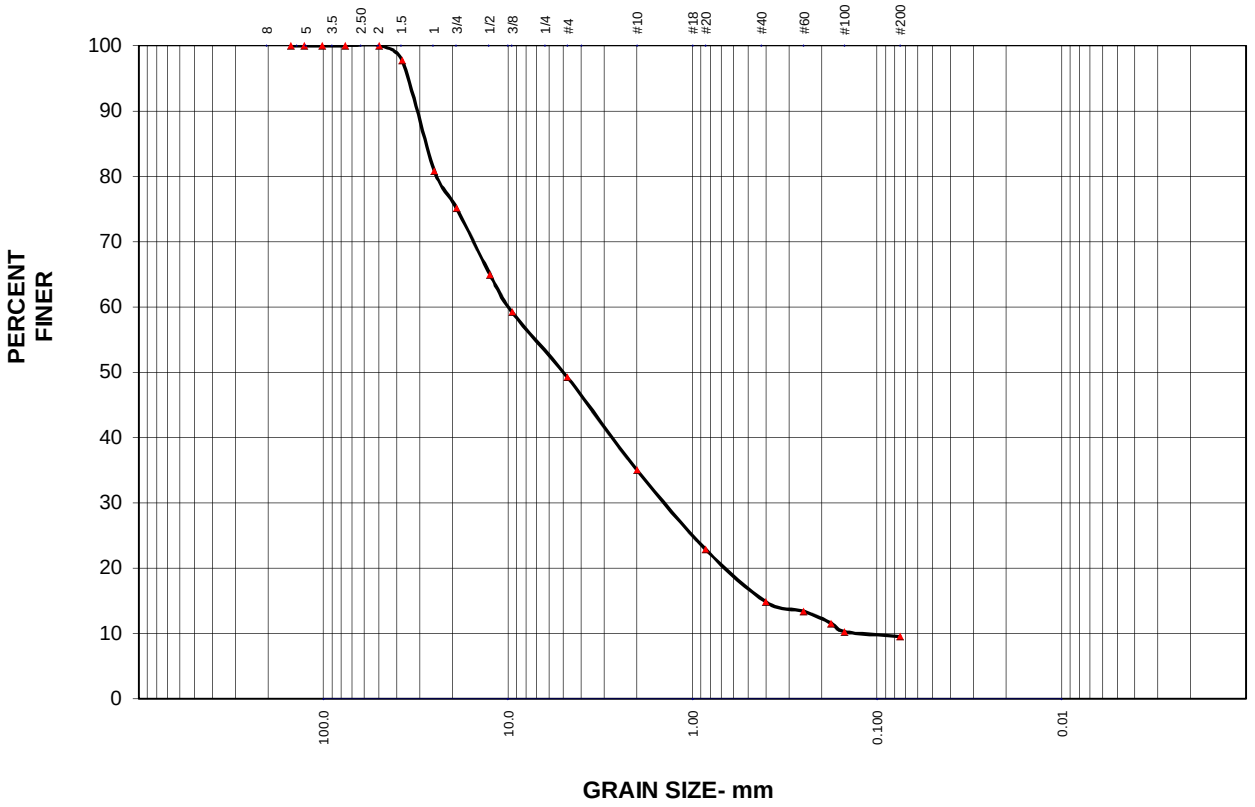
(1) Geosyntec Consultants, Paul Botek

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(1) Geosyntec Consultants, Tom Ramsey

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



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		35.8	30.5	33.7	Silt (>0.002mm)	Clay (<0.002mm)
0.0	50.8		% Sand	39.7	9.5	

Classification: Imported - PENNDOT Approved Material

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"	310.00	98			
25.0	1"	2645.00	81			
19.0	3/4"	3420.00	75			
12.5	1/2"	4825.00	65			
9.5	3/8"	5615.00	59			
4.75	#4	6990.00	49			
2.00	#10	123.85	35			
0.850	#20	229.45	23			
0.400	#40	300.04	15			
0.250	#60	312.43	13			
0.177	#80	328.46	12			
0.150	#100	339.91	10			
0.075	#200	346.12	10			

Total Dry Wt. 13760 g
Split Wt. 429.46 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**8/31/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #52			

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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 8/31/2022

Distribution Page

Report Number: J5211361.0125I
Service Date: 07/27/22
Report Date: 08/31/22
Task:

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Rochester, NY 14624-2300
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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0125L
Service Date: 07/27/22
Report Date: 09/01/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 07/27/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #53

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

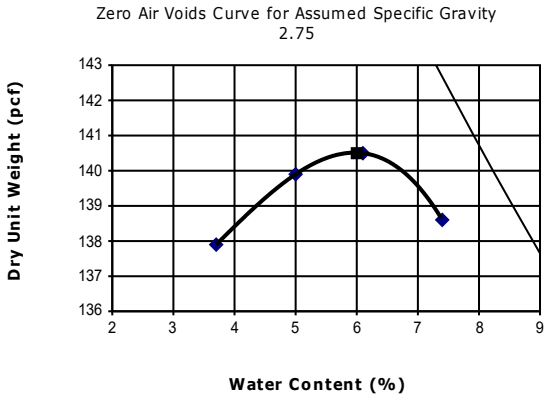
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 27.0
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.5**
Optimum Water Content (%): **6.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.1**
Optimum Water Content (%): **7.9**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0125L
Service Date: 07/27/22
Report Date: 09/01/22
Task:

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Distribution List

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(1) Geosyntec Consultants, Colin Lamas

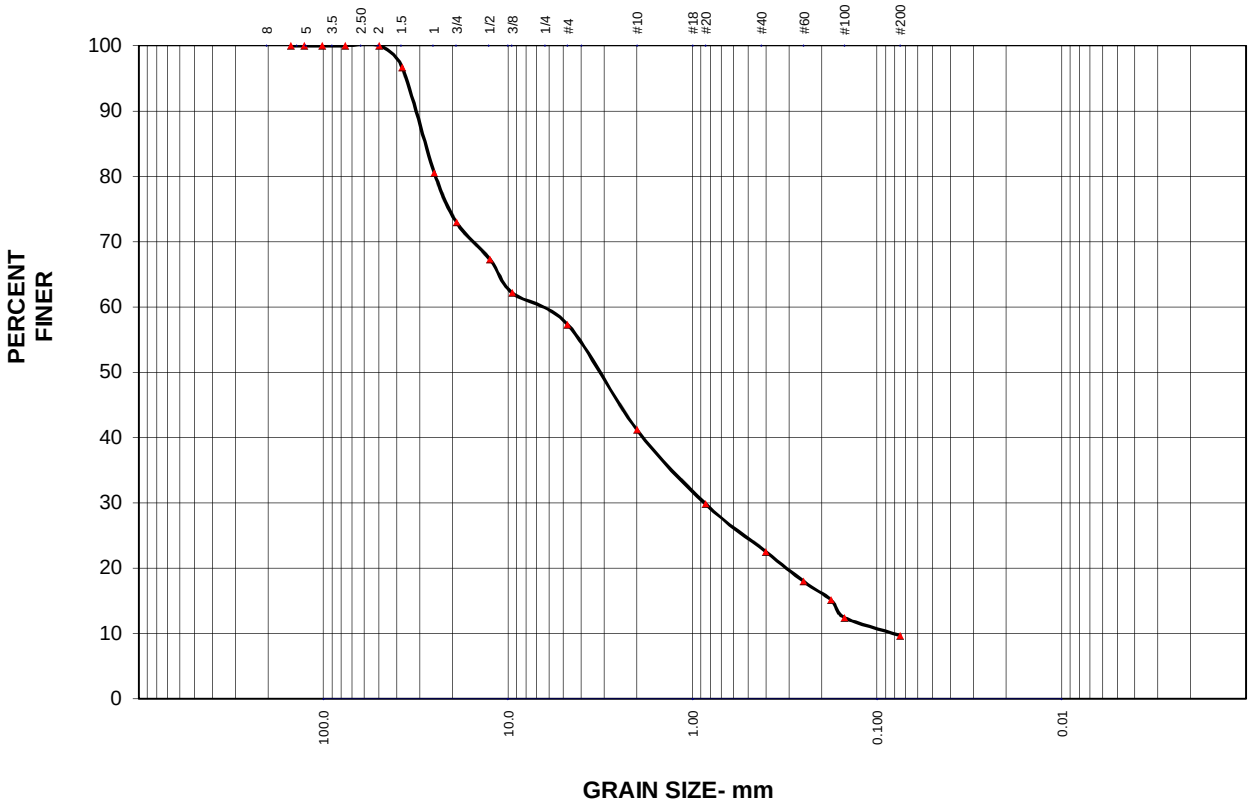
(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

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



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		33.8	23.9	42.3	Silt (>0.002mm)	Clay (<0.002mm)
0.0	42.7		% Sand	47.6	9.7	

Classification: Imported - PENNDOT Approved Material

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"	605.00	97			
25.0	1"	3585.00	80			
19.0	3/4"	4960.00	73			
12.5	1/2"	6005.00	67			
9.5	3/8"	6940.00	62			
4.75	#4	7835.00	57			
2.00	#10	117.41	41			
0.850	#20	200.35	30			
0.400	#40	253.87	22			
0.250	#60	286.85	18			
0.177	#80	307.65	15			
0.150	#100	327.29	12			
0.075	#200	347.13	10			

Total Dry Wt. 18345 g
Split Wt. 417.94 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**9/1/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #53			

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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 8/31/2022

Distribution Page

Report Number: J5211361.0125K
Service Date: 07/27/22
Report Date: 09/01/22
Task:

15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
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Distribution List

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(1) Geosyntec Consultants, Aron Krasnopoler

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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

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(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0125N
Service Date: 07/27/22
Report Date: 09/06/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 07/27/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #54

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

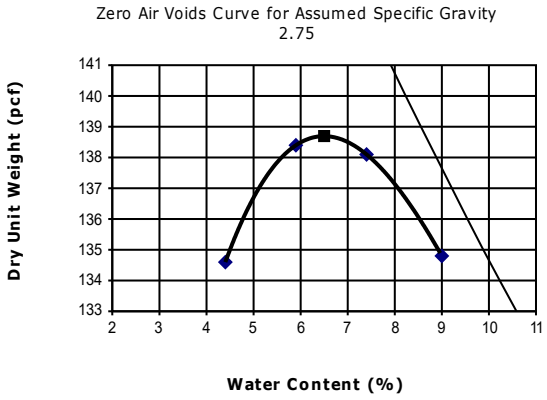
USCS:

Oversized Particles (%): 23.4
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.7**
Optimum Water Content (%): **6.5**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **132.2**
Optimum Water Content (%): **8.3**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0125N
Service Date: 07/27/22
Report Date: 09/06/22
Task:

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(1) Geosyntec Consultants, Colin Lamas

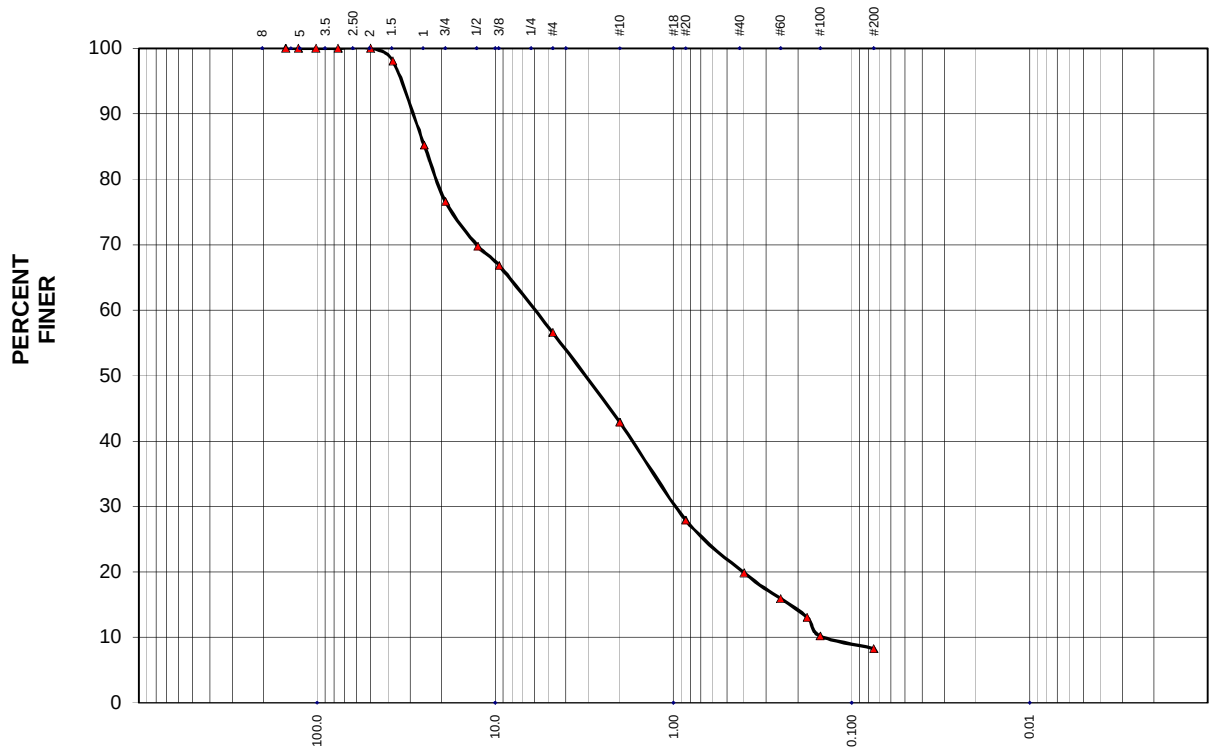
(1) Geosyntec Consultants, Paul Botek

(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	
		28.3	31.0	40.6	Silt (>0.002mm)	Clay (<0.002mm)
0.0	43.4		% Sand	48.3	8.3	

Classification: Imported - PENNDOT Approved Material

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"	355.00	98			
25.0	1"	2675.00	85			
19.0	3/4"	4230.00	77			
12.5	1/2"	5460.00	70			
9.5	3/8"	5985.00	67			
4.75	#4	7840.00	57			
2.00	#10	130.92	43			
0.850	#20	274.37	28			
0.400	#40	351.68	20			
0.250	#60	389.01	16			
0.177	#80	416.64	13			
0.150	#100	443.81	10			
0.075	#200	462.27	8			

Total Dry Wt. 18045 g
Split Wt. 541.63 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**9/2/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #54			

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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 9/2/2022

Distribution Page

Report Number: J5211361.0125M
Service Date: 07/27/22
Report Date: 09/06/22
Task:

15 Marway Cir, Ste 2B
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(1) Geosyntec Consultants, Aron Krasnopoler

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(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0125P
Service Date: 07/27/22
Report Date: 09/07/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/27/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #55

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

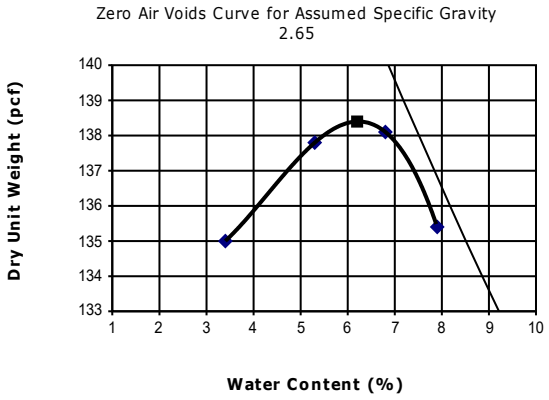
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 21.5
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.4**
Optimum Water Content (%): **6.2**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **132.5**
Optimum Water Content (%): **7.8**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0125P
Service Date: 07/27/22
Report Date: 09/07/22
Task:

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Rochester, NY 14624-2300
585-247-3471

Distribution List

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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

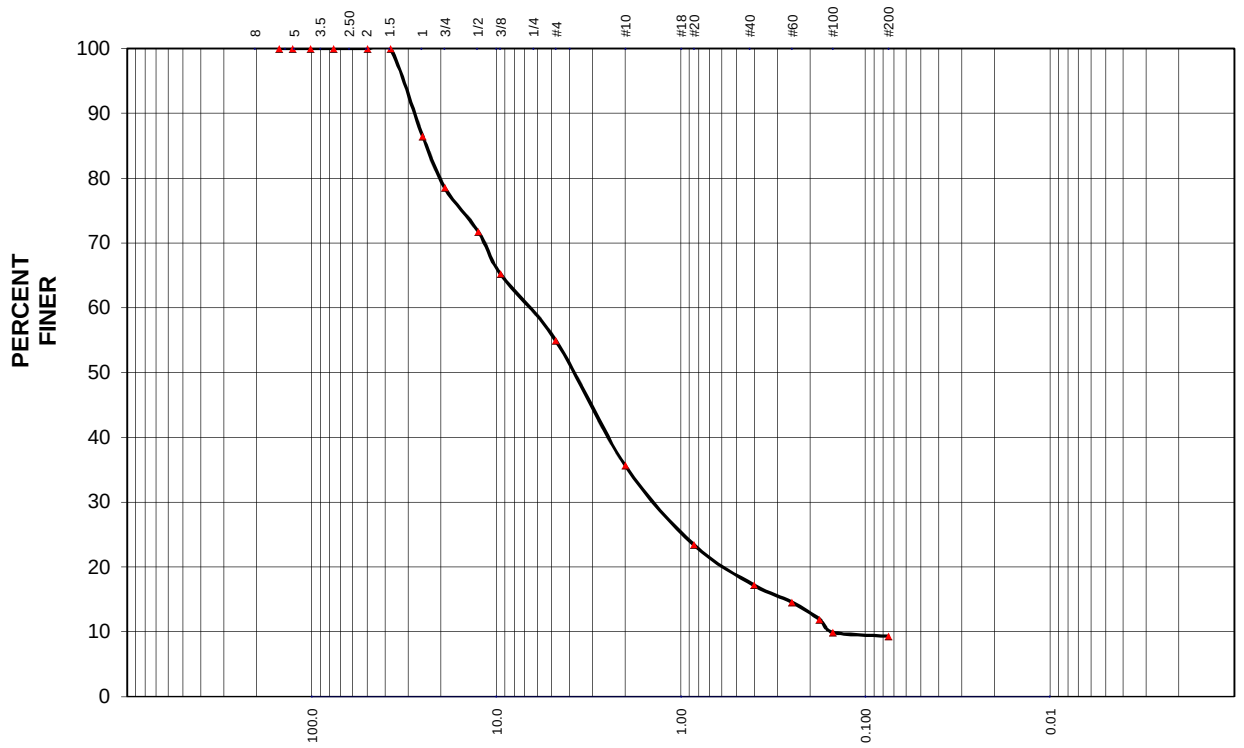
(1) Geosyntec Consultants, Paul Botek

(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	
		42.3	26.8	30.9	Silt (>0.002mm)	Clay (<0.002mm)
0.0	45.1		% Sand	45.6	9.3	

Classification: Imported - PENNDOT Approved Material

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"	2355.00	86			
19.0	3/4"	3725.00	79			
12.5	1/2"	4900.00	72			
9.5	3/8"	6030.00	65			
4.75	#4	7820.00	55			
2.00	#10	230.12	36			
0.850	#20	375.74	23			
0.400	#40	450.09	17			
0.250	#60	481.13	15			
0.177	#80	512.91	12			
0.150	#100	536.56	10			
0.075	#200	543.82	9			

Total Dry Wt. 17345 g
Split Wt. 654.85 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**9/6/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #55			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 9/2/2022

Distribution Page

Report Number: J5211361.0125O
Service Date: 07/27/22
Report Date: 09/07/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0125R
Service Date: 07/27/22
Report Date: 09/08/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 07/27/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #56

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

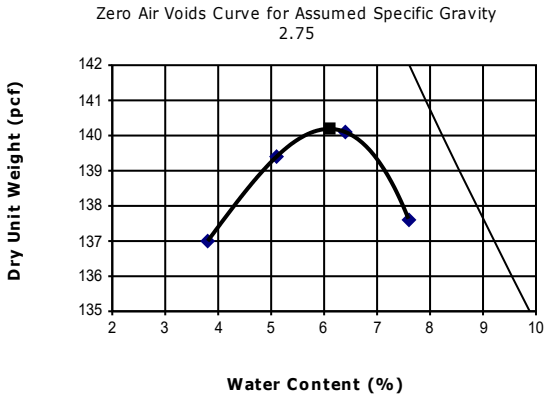
USCS:

Oversized Particles (%): 23.0
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.2**
Optimum Water Content (%): **6.1**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.1**
Optimum Water Content (%): **7.8**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0125R
Service Date: 07/27/22
Report Date: 09/08/22
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

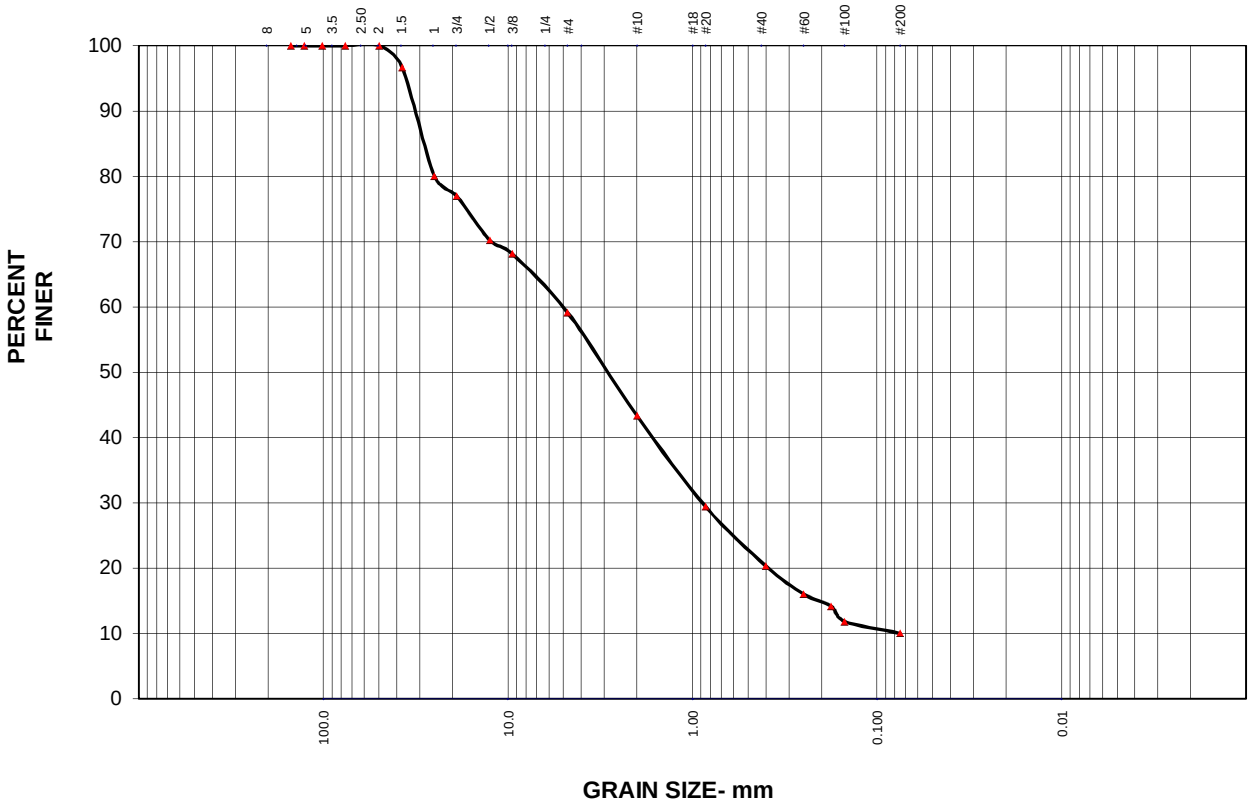
(1) Geosyntec Consultants, Paul Botek

(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	
		32.2	28.3	39.5	Silt (>0.002mm)	Clay (<0.002mm)
0.0	40.8		% Sand	49.1	10.0	

Classification: Imported - PENNDOT Approved Material

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"	635.00	97			
25.0	1"	3840.00	80			
19.0	3/4"	4420.00	77			
12.5	1/2"	5730.00	70			
9.5	3/8"	6120.00	68			
4.75	#4	7845.00	59			
2.00	#10	109.45	43			
0.850	#20	205.63	29			
0.400	#40	268.47	20			
0.250	#60	298.35	16			
0.177	#80	311.26	14			
0.150	#100	327.42	12			
0.075	#200	340.02	10			

Total Dry Wt. 19205 g
Split Wt. 409.43 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**9/8/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #56			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 9/7/2022

Distribution Page

Report Number: J5211361.0125Q
Service Date: 07/27/22
Report Date: 09/08/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0125S
Service Date: 07/27/22
Report Date: 09/10/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 07/27/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #57

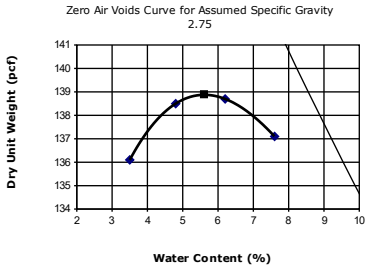
Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 20.6
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65



Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.9**
Optimum Water Content (%): **5.6**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.3**
Optimum Water Content (%): **6.9**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0125S
Service Date: 07/27/22
Report Date: 09/10/22
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

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(1) Geosyntec Consultants, Colin Lamas

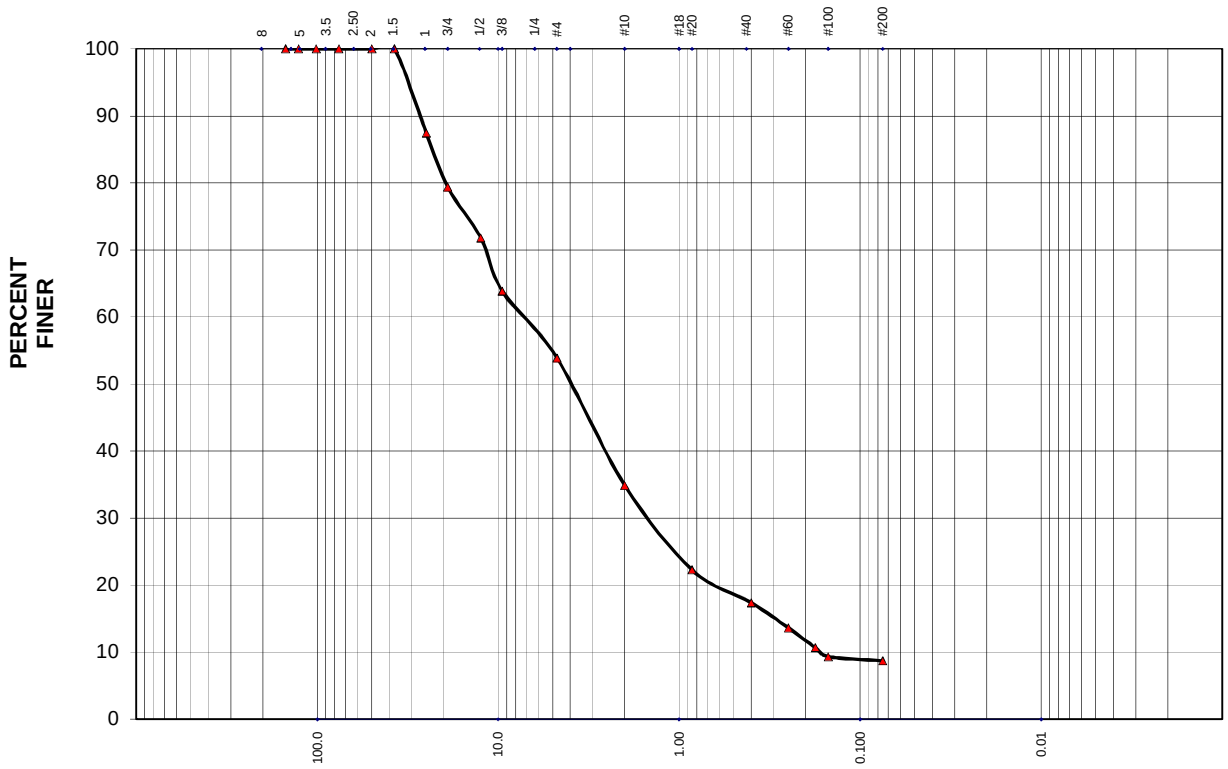
(1) Geosyntec Consultants, Paul Botek

(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	
		42.1	27.9	30.0	Silt (>0.002mm)	Clay (<0.002mm)
0.0	46.1		% Sand	45.2	8.7	

Classification: Imported - PENNDOT Approved Material

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"	1940.00	87			
19.0	3/4"	3185.00	79			
12.5	1/2"	4350.00	72			
9.5	3/8"	5580.00	64			
4.75	#4	7120.00	54			
2.00	#10	222.93	35			
0.850	#20	370.90	22			
0.400	#40	428.46	17			
0.250	#60	472.13	14			
0.177	#80	506.97	11			
0.150	#100	522.81	9			
0.075	#200	530.08	9			

Total Dry Wt. 15445 g
Split Wt. 632.28 g

Project: **Elmira High School Football Field**	Project No.: **J5211361**	Date: **9/9/2022**
Location: Elmira, New York	Specification: ASTM C136	
Source Lawrenceville Quarry	Sample #57	

15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 9/8/2022

Distribution Page

Report Number: J5211361.0125T
Service Date: 07/27/22
Report Date: 09/10/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0135B
Service Date: 08/22/22
Report Date: 09/13/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/22/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #58

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

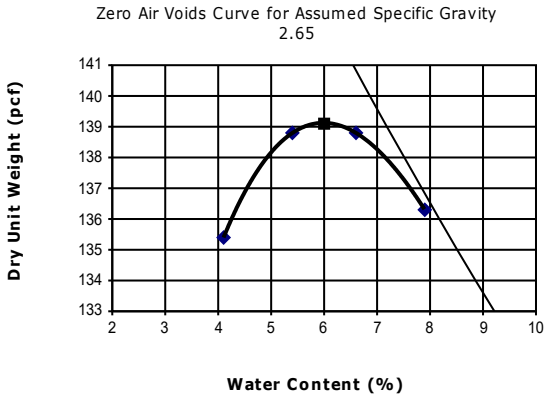
USCS:

Oversized Particles (%): 21.0
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **139.1**
Optimum Water Content (%): **6.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.5**
Optimum Water Content (%): **7.4**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0135B
Service Date: 08/22/22
Report Date: 09/13/22
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

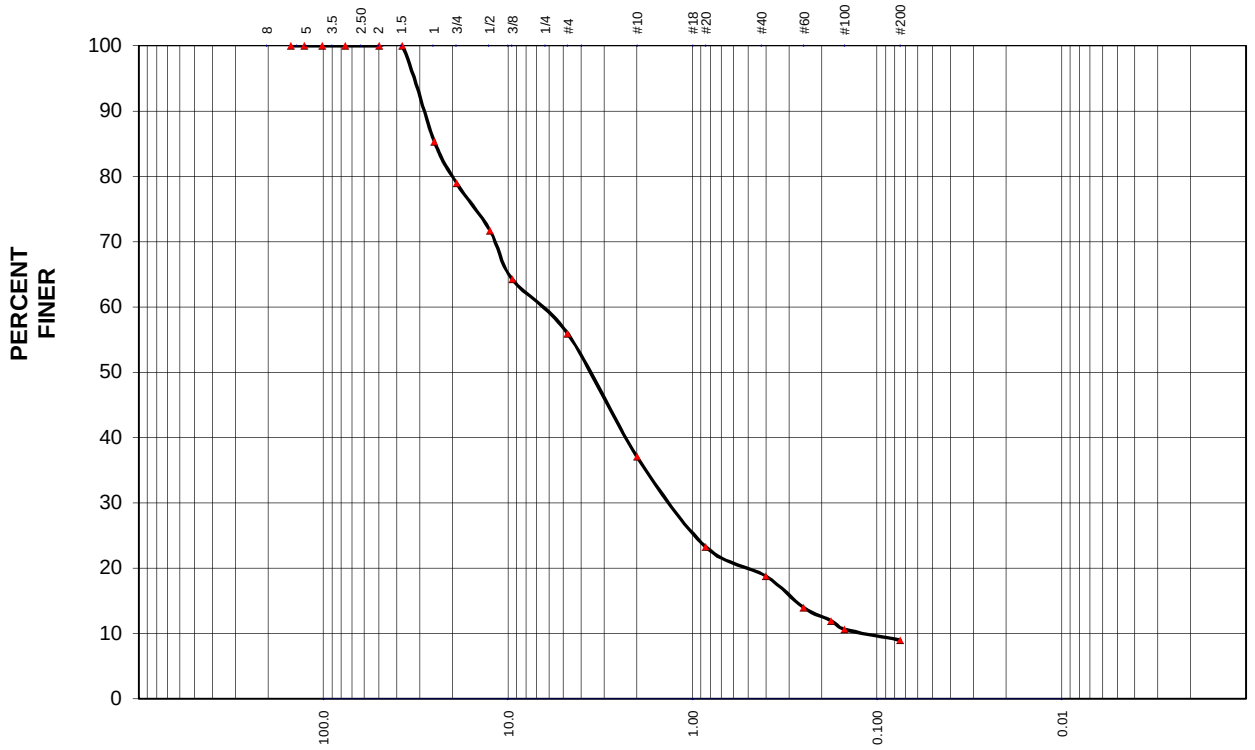
(1) Geosyntec Consultants, Paul Botek

(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	
		40.1	29.4	30.5	Silt (>0.002mm)	Clay (<0.002mm)
0.0	44.1		% Sand	46.9	9.0	

Classification: Imported - PENNDOT Approved Material

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"	2670.00	85			
19.0	3/4"	3815.00	79			
12.5	1/2"	5135.00	72			
9.5	3/8"	6485.00	64			
4.75	#4	7995.00	56			
2.00	#10	209.14	37			
0.850	#20	362.34	23			
0.400	#40	412.30	19			
0.250	#60	465.99	14			
0.177	#80	488.12	12			
0.150	#100	502.81	11			
0.075	#200	521.23	9			

Total Dry Wt. 18140 g
Split Wt. 620.94 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**9/13/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #58			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 9/9/2022

Distribution Page

Report Number: J5211361.0135A
Service Date: 08/22/22
Report Date: 09/13/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0135D
Service Date: 08/22/22
Report Date: 09/15/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/22/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #59

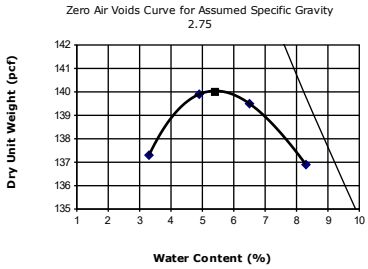
Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 24.6
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65



Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.0**
Optimum Water Content (%): **5.4**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.3**
Optimum Water Content (%): **7.0**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0135D
Service Date: 08/22/22
Report Date: 09/15/22
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

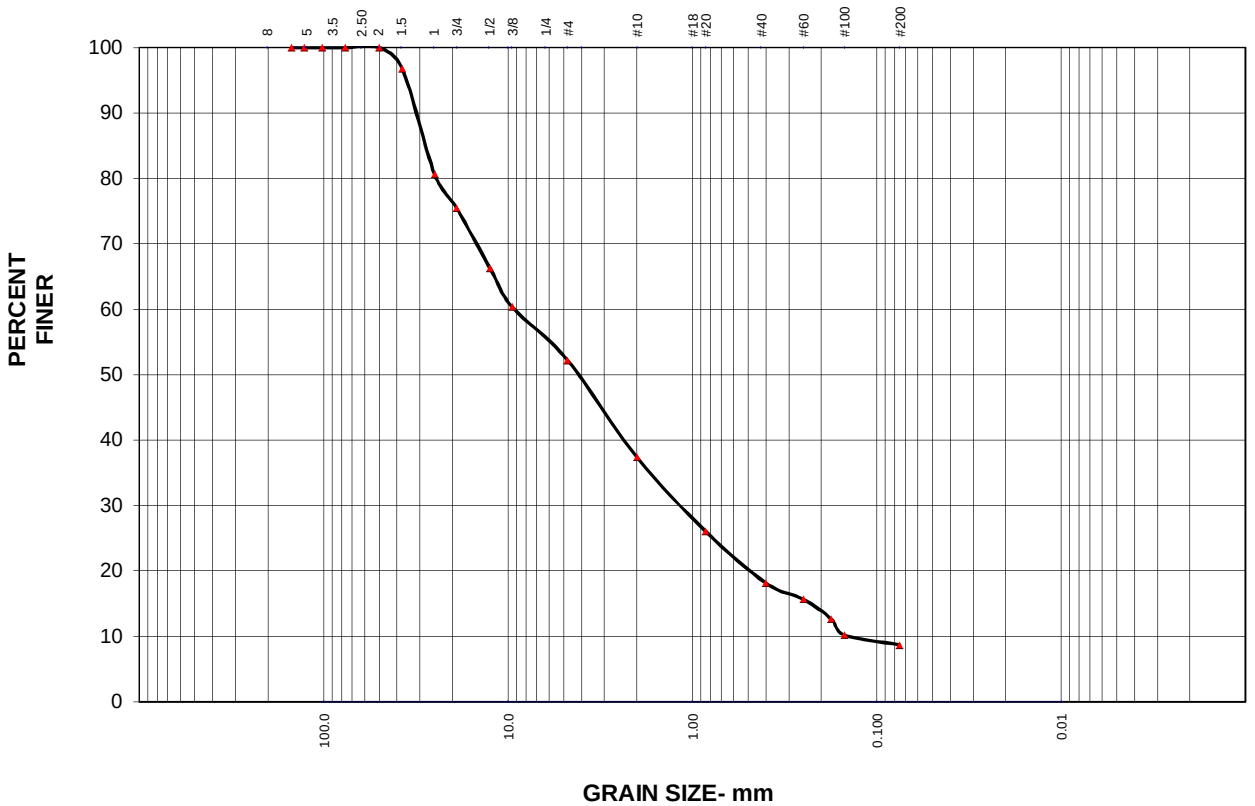
(1) Geosyntec Consultants, Paul Botek

(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	
		34.1	25.9	40.0	Silt (>0.002mm)	Clay (<0.002mm)
0.0	47.8		% Sand	43.5	8.7	

Classification: Imported - PENNDOT Approved Material

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"	485.00	97			
25.0	1"	2935.00	81			
19.0	3/4"	3720.00	75			
12.5	1/2"	5115.00	66			
9.5	3/8"	6005.00	60			
4.75	#4	7235.00	52			
2.00	#10	134.82	37			
0.850	#20	237.25	26			
0.400	#40	309.16	18			
0.250	#60	331.74	16			
0.177	#80	358.66	13			
0.150	#100	381.32	10			
0.075	#200	395.12	9			

Total Dry Wt. 15145 g
Split Wt. 473.92 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**9/15/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #59			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 9/14/2022

Distribution Page

Report Number: J5211361.0135C
Service Date: 08/22/22
Report Date: 09/15/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0135F
Service Date: 08/22/22
Report Date: 09/20/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/22/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #60

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

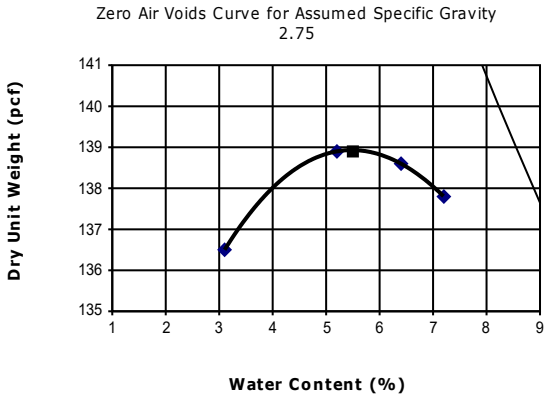
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 18.6
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.9**
Optimum Water Content (%): **5.5**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.0**
Optimum Water Content (%): **6.7**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0135F
Service Date: 08/22/22
Report Date: 09/20/22
Task:

15 Marway Cir, Ste 2B
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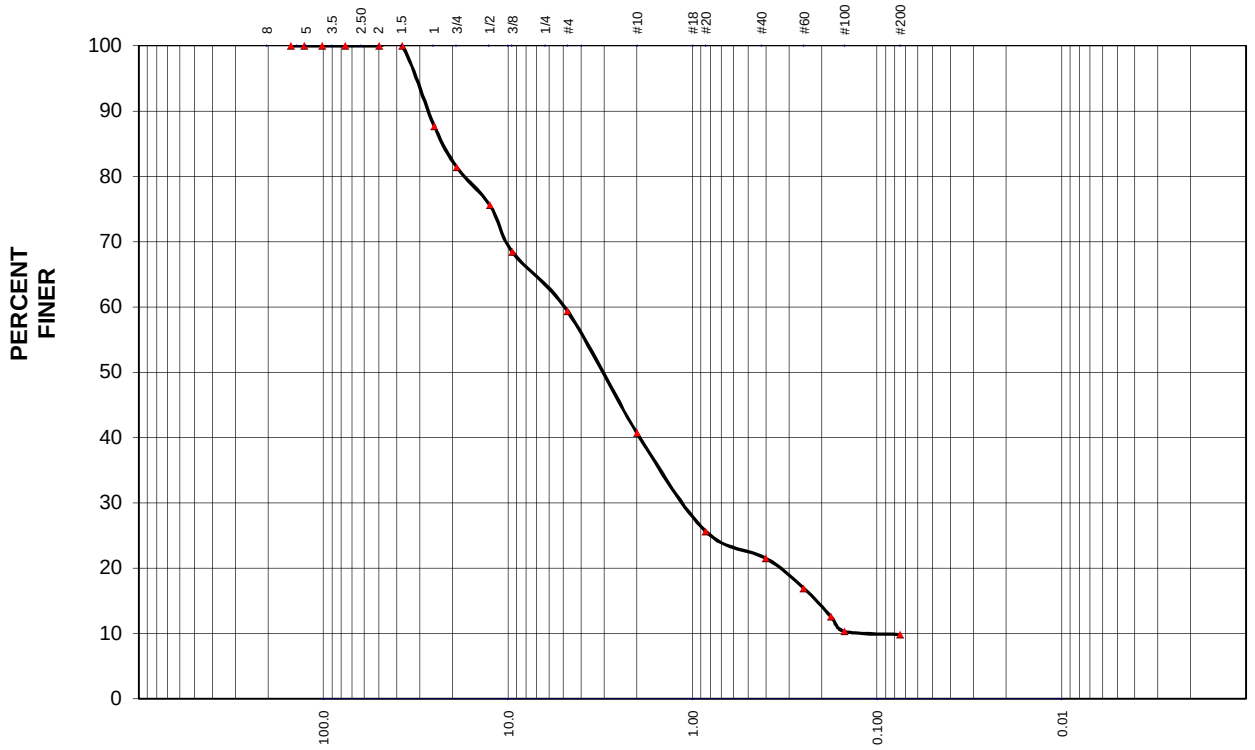
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GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		37.6	30.4	31.9	Silt (>0.002mm)	Clay (<0.002mm)
0.0	40.6		% Sand	49.5	9.8	

Classification: Imported - PENNDOT Approved Material

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"	2410.00	88			
19.0	3/4"	3620.00	81			
12.5	1/2"	4750.00	76			
9.5	3/8"	6135.00	68			
4.75	#4	7905.00	59			
2.00	#10	200.41	41			
0.850	#20	362.42	26			
0.400	#40	406.82	22			
0.250	#60	455.93	17			
0.177	#80	503.29	13			
0.150	#100	527.48	10			
0.075	#200	532.49	10			

Total Dry Wt. 19450 g
Split Wt. 638.35 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**9/6/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #60			

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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 9/2/2022

Distribution Page

Report Number: J5211361.0135E
Service Date: 08/22/22
Report Date: 09/20/22
Task:

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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0135H
Service Date: 08/22/22
Report Date: 09/21/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/22/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #61

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

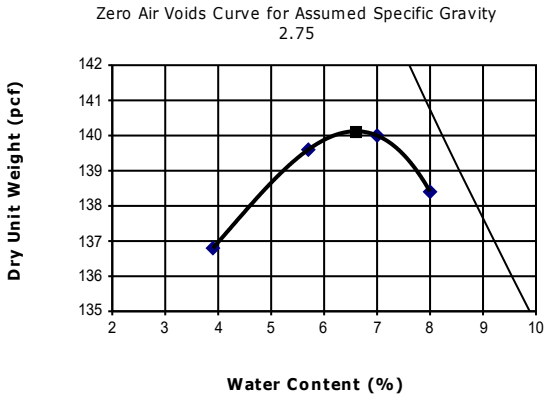
USCS:

Oversized Particles (%): 25.3
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.1**
Optimum Water Content (%): **6.6**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.3**
Optimum Water Content (%): **8.6**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0135H
Service Date: 08/22/22
Report Date: 09/21/22
Task:

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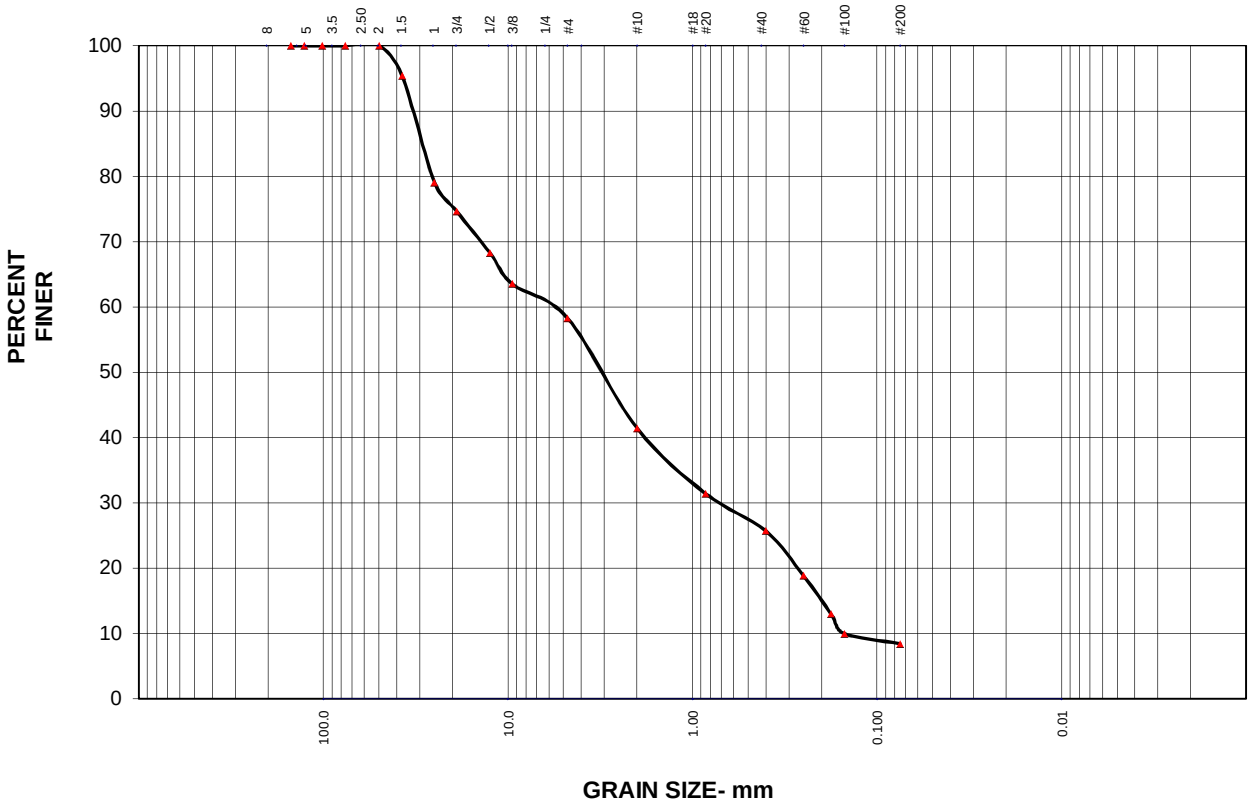
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(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

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



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		33.8	20.1	46.2	Silt (>0.002mm)	Clay (<0.002mm)
0.0	41.7		% Sand	49.8	8.4	

Classification: Imported - PENNDOT Approved Material

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"	935.00	95			
25.0	1"	4280.00	79			
19.0	3/4"	5185.00	75			
12.5	1/2"	6490.00	68			
9.5	3/8"	7460.00	64			
4.75	#4	8535.00	58			
2.00	#10	140.12	41			
0.850	#20	223.51	31			
0.400	#40	271.45	26			
0.250	#60	328.62	19			
0.177	#80	377.54	13			
0.150	#100	402.35	10			
0.075	#200	415.16	8			

Total Dry Wt. 20455 g
Split Wt. 485.45 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**9/21/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #61			

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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 9/19/2022

Distribution Page

Report Number: J5211361.0135G
Service Date: 08/22/22
Report Date: 09/21/22
Task:

15 Marway Cir, Ste 2B
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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0135J
Service Date: 08/22/22
Report Date: 09/21/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/22/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #62

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

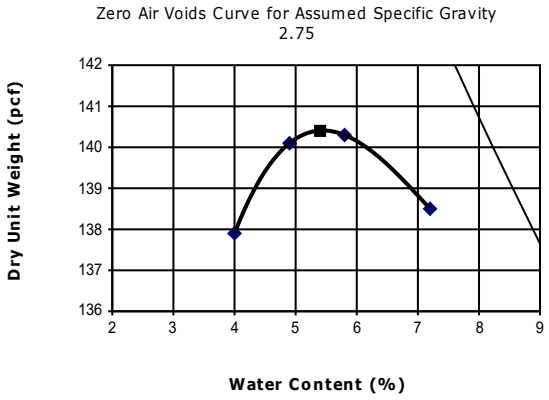
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 24.1
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.4**
Optimum Water Content (%): **5.4**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.0**
Optimum Water Content (%): **7.1**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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Distribution Page

Report Number: J5211361.0135J
Service Date: 08/22/22
Report Date: 09/21/22
Task:

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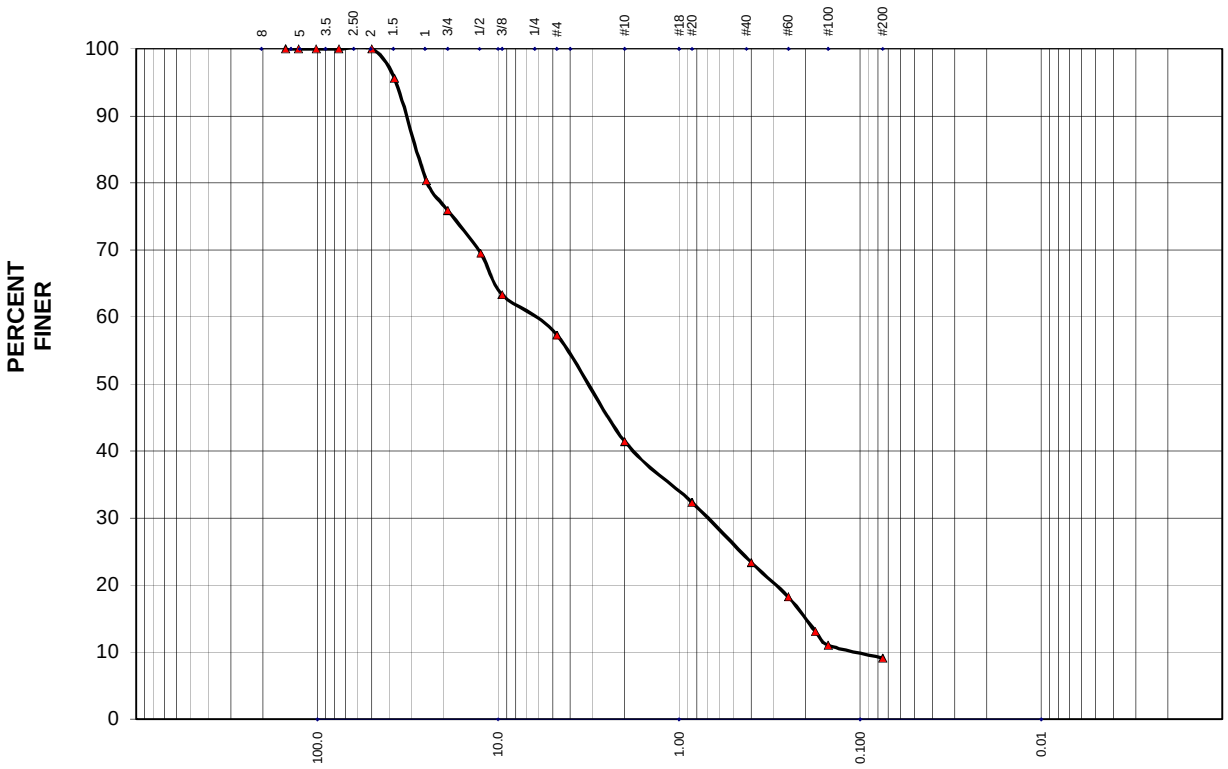
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GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		33.0	18.8	48.2	Silt (>0.002mm)	Clay (<0.002mm)
0.0	42.7		% Sand	48.2	9.1	

Classification: Imported - PENNDOT Approved Material

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"	845.00	96			
25.0	1"	3815.00	80			
19.0	3/4"	4680.00	76			
12.5	1/2"	5920.00	70			
9.5	3/8"	7130.00	63			
4.75	#4	8295.00	57			
2.00	#10	138.54	41			
0.850	#20	217.61	32			
0.400	#40	295.63	23			
0.250	#60	340.54	18			
0.177	#80	385.17	13			
0.150	#100	403.44	11			
0.075	#200	420.06	9			

Total Dry Wt. 19435 g
Split Wt. 499.61 g

Project: **Elmira High School Football Field**	Project No.: **J5211361**	Date: **9/21/2022**
Location: Elmira, New York	Specification: ASTM C136	
Source Lawrenceville Quarry	Sample #62	

Terracon
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 9/20/2022

Distribution Page

Report Number: J5211361.0135I
Service Date: 08/22/22
Report Date: 09/21/22
Task:

15 Marway Cir, Ste 2B
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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0135L
Service Date: 08/22/22
Report Date: 09/26/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/22/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #63

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

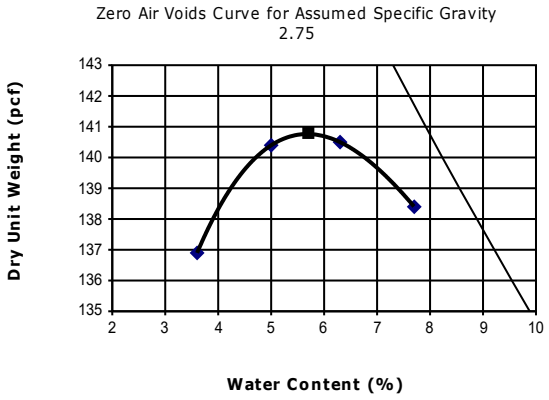
USCS:

Oversized Particles (%): 23.0
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.8**
Optimum Water Content (%): **5.7**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.7**
Optimum Water Content (%): **7.3**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0135L
Service Date: 08/22/22
Report Date: 09/26/22
Task:

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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

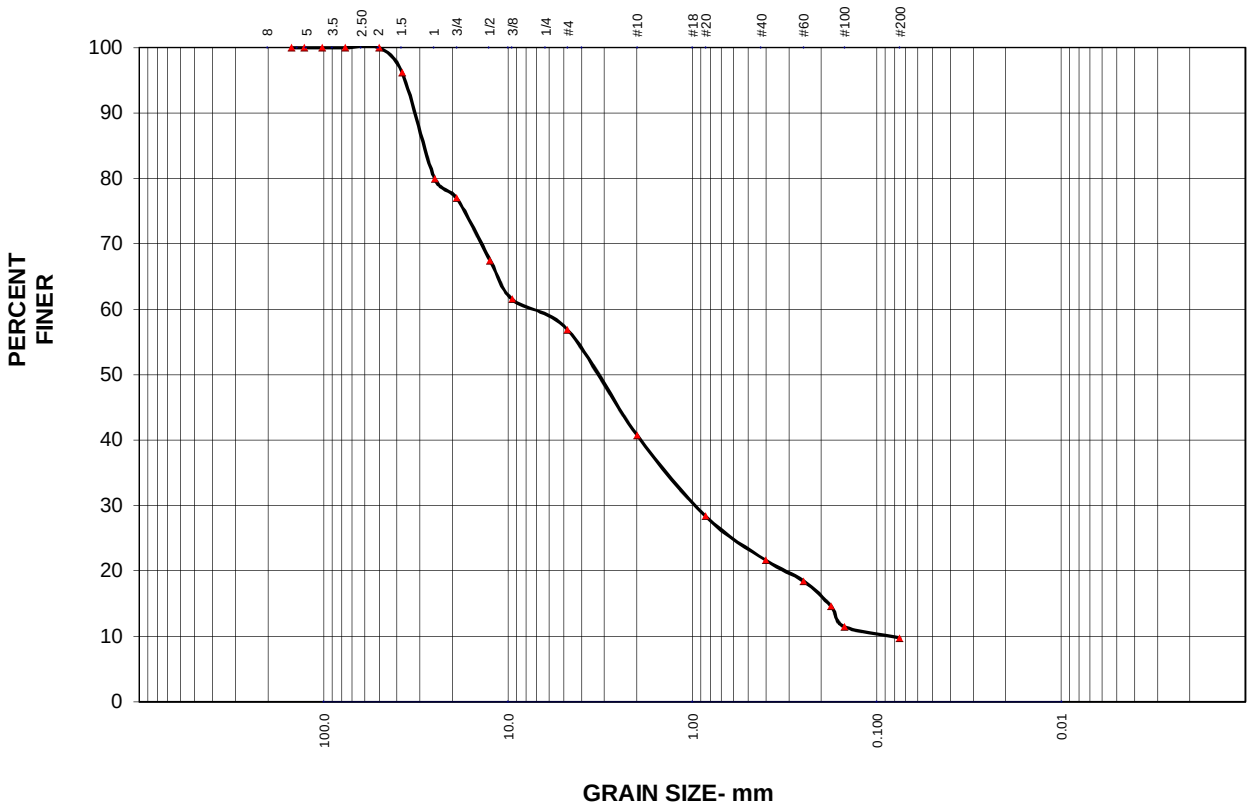
(1) Geosyntec Consultants, Paul Botek

(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	
		34.2	26.3	39.5	Silt (>0.002mm)	Clay (<0.002mm)
0.0	43.2	% Sand		47.1	9.8	

Classification: Imported - PENNDOT Approved Material

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"	670.00	96			
25.0	1"	3495.00	80			
19.0	3/4"	4015.00	77			
12.5	1/2"	5685.00	67			
9.5	3/8"	6720.00	62			
4.75	#4	7540.00	57			
2.00	#10	143.82	41			
0.850	#20	254.58	28			
0.400	#40	314.82	22			
0.250	#60	343.10	18			
0.177	#80	377.86	15			
0.150	#100	405.62	11			
0.075	#200	421.14	10			

Total Dry Wt. 17465 g
Split Wt. 508.38 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**9/23/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #63			

Terracon
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Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 9/23/2022

Distribution Page

Report Number: J5211361.0135K
Service Date: 08/22/22
Report Date: 09/26/22
Task:

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Distribution List

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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0135N
Service Date: 08/22/22
Report Date: 09/26/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/22/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville

Sample Description: PENNDOT Approved Material Sample #64

Laboratory Test Data

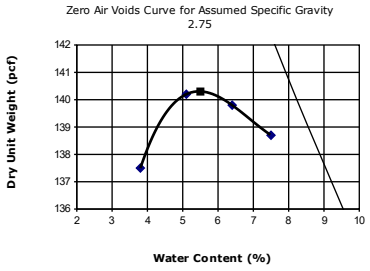
	Result	Specifications
Test Procedure: ASTM D698	**Liquid Limit:**	
Test Method: Method C	**Plastic Limit:**	
Sample Preparation: Wet	**Plasticity Index:**	
Rammer Type: Mechanical	**In-Place Moisture (%):**	
	USCS:	

Oversized Particles (%): 22.6
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.3**
Optimum Water Content (%): **5.5**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.3**
Optimum Water Content (%): **6.9**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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Distribution Page

Report Number: J5211361.0135N
Service Date: 08/22/22
Report Date: 09/26/22
Task:

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Rochester, NY 14624-2300
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Distribution List

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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

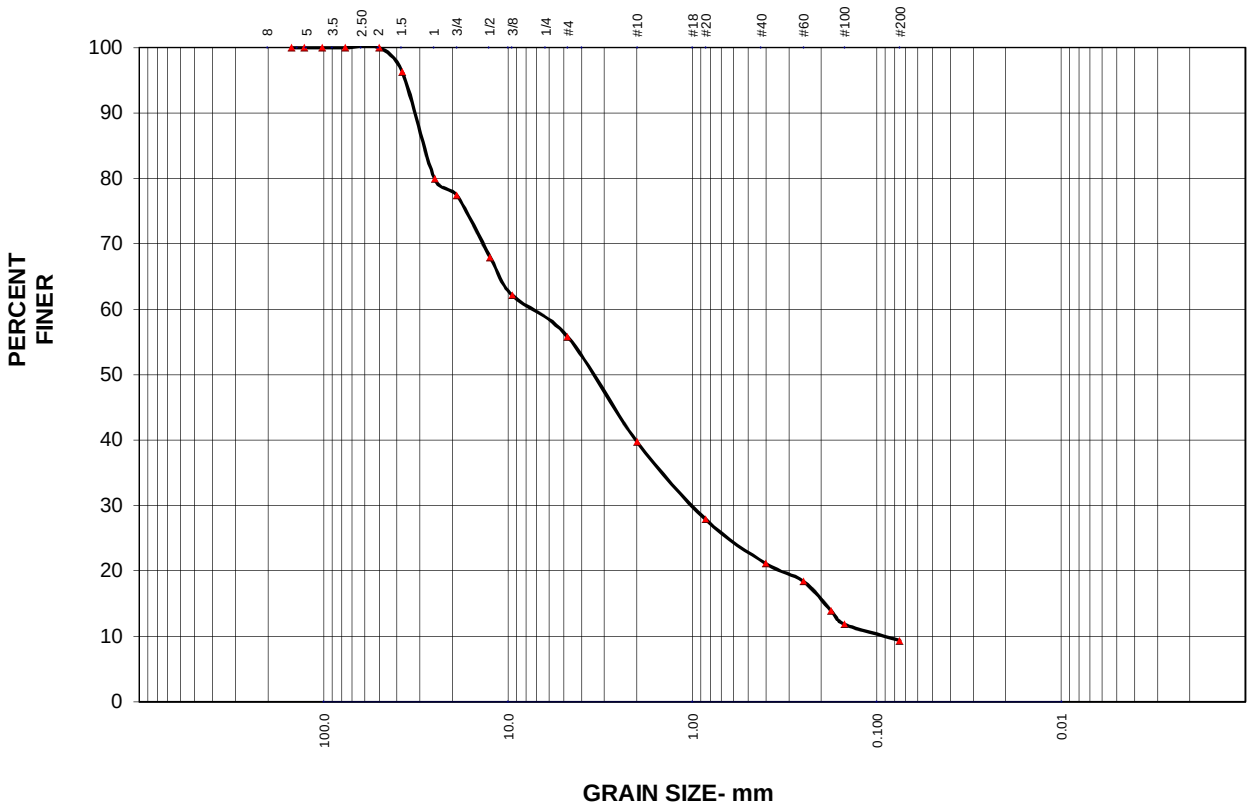
(1) Geosyntec Consultants, Paul Botek

(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	
		34.6	25.5	39.9	Silt (>0.002mm)	Clay (<0.002mm)
0.0	44.2		% Sand	46.4	9.4	

Classification: Imported - PENNDOT Approved Material

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"	600.00	96			
25.0	1"	3285.00	80			
19.0	3/4"	3690.00	77			
12.5	1/2"	5245.00	68			
9.5	3/8"	6195.00	62			
4.75	#4	7230.00	56			
2.00	#10	150.43	40			
0.850	#20	261.48	28			
0.400	#40	324.65	21			
0.250	#60	350.19	18			
0.177	#80	392.25	14			
0.150	#100	411.60	12			
0.075	#200	434.87	9			

Total Dry Wt. 16360 g
Split Wt. 522.56 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**9/23/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #64			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 9/23/2022

Distribution Page

Report Number: J5211361.0135M
Service Date: 08/22/22
Report Date: 09/26/22
Task:

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

Distribution List

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(1) Geosyntec Consultants, Aron Krasnopoler

(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0136B
Service Date: 08/23/22
Report Date: 09/27/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structual Fill

Sample Information

Sample Date: 08/23/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #65

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

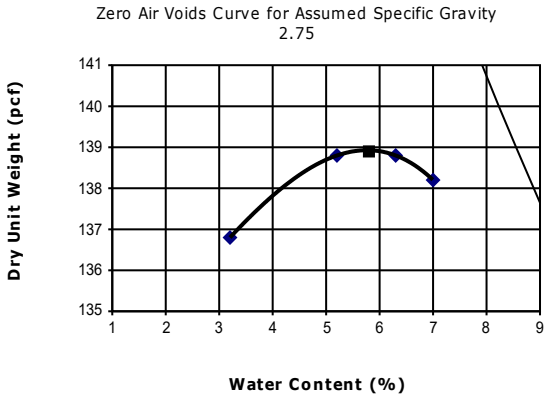
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 18.2
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.9**
Optimum Water Content (%): **5.8**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.1**
Optimum Water Content (%): **7.0**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0136B
Service Date: 08/23/22
Report Date: 09/27/22
Task:

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Distribution List

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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

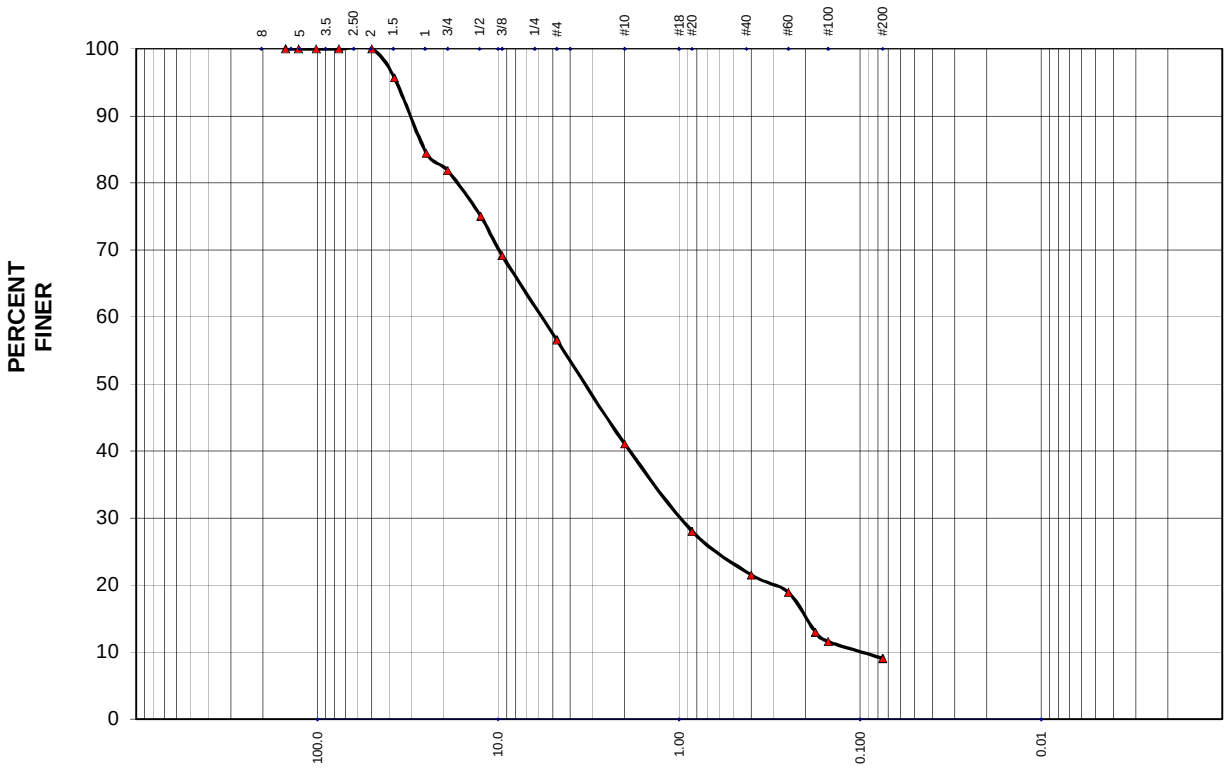
(1) Geosyntec Consultants, Paul Botek

(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	
		32.6	27.4	39.9	Silt (>0.002mm)	Clay (<0.002mm)
0.0	43.4		% Sand	47.5	9.1	

Classification: Imported - PENNDOT Approved Material

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"	935.00	96			
25.0	1"	3380.00	84			
19.0	3/4"	3950.00	82			
12.5	1/2"	5425.00	75			
9.5	3/8"	6710.00	69			
4.75	#4	9445.00	57			
2.00	#10	139.54	41			
0.850	#20	256.81	28			
0.400	#40	315.43	22			
0.250	#60	338.94	19			
0.177	#80	392.48	13			
0.150	#100	405.18	12			
0.075	#200	427.64	9			

Total Dry Wt. 21745 g
Split Wt. 509.46 g

Project: **Elmira High School Football Field**	Project No.: **J5211361**	Date: **9/27/2022**
Location: Elmira, New York	Specification: ASTM C136	
Source Lawrenceville Quarry	Sample #65	

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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 9/27/2022

Distribution Page

Report Number: J5211361.0136A
Service Date: 08/23/22
Report Date: 09/27/22
Task:

15 Marway Cir, Ste 2B
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Distribution List

(1) Geosyntec Consultants, Miranda Stelmach

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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0136D
Service Date: 08/23/22
Report Date: 09/27/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/23/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #66

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

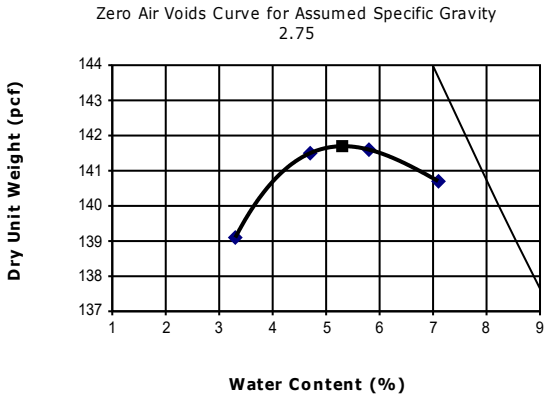
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 23.4
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **141.7**
Optimum Water Content (%): **5.3**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.7**
Optimum Water Content (%): **6.8**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0136D
Service Date: 08/23/22
Report Date: 09/27/22
Task:

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(1) Geosyntec Consultants, Colin Lamas

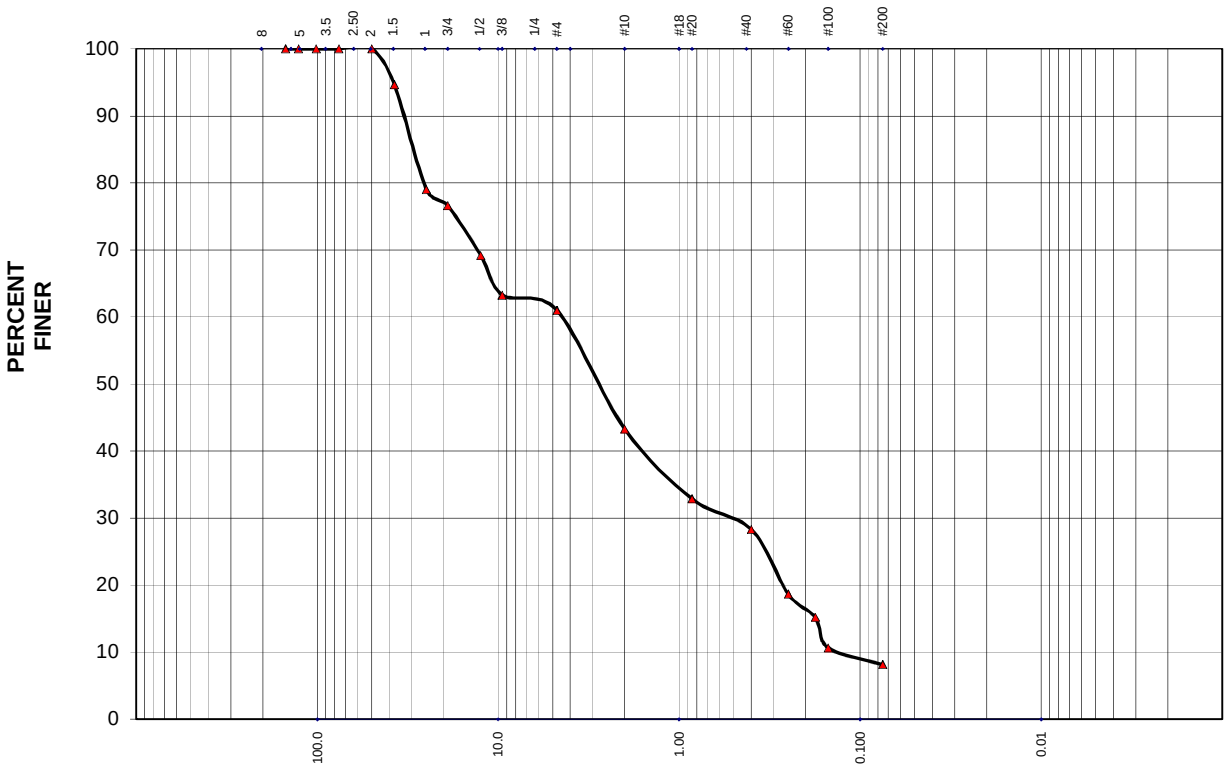
(1) Geosyntec Consultants, Paul Botek

(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	
		33.5	19.7	46.7	Silt (>0.002mm)	Clay (<0.002mm)
0.0	39.0		% Sand	52.8	8.2	

Classification: Imported - PENNDOT Approved Material

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"	1255.00	95			
25.0	1"	4915.00	79			
19.0	3/4"	5480.00	77			
12.5	1/2"	7230.00	69			
9.5	3/8"	8610.00	63			
4.75	#4	9145.00	61			
2.00	#10	157.18	43			
0.850	#20	249.61	33			
0.400	#40	290.04	28			
0.250	#60	375.38	19			
0.177	#80	406.23	15			
0.150	#100	446.91	11			
0.075	#200	468.67	8			

Total Dry Wt. 23455 g
Split Wt. 541.09 g

Project: **Elmira High School Football Field**	Project No.: **J5211361**	Date: **9/27/2022**
Location: Elmira, New York	Specification: ASTM C136	
Source Lawrenceville Quarry	Sample #66	

Terracon
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Rochester, NY 14624
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 9/27/2022

Distribution Page

Report Number: J5211361.0136C
Service Date: 08/23/22
Report Date: 09/27/22
Task:

15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
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Distribution List

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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0136F
Service Date: 08/23/22
Report Date: 09/28/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/23/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #67

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

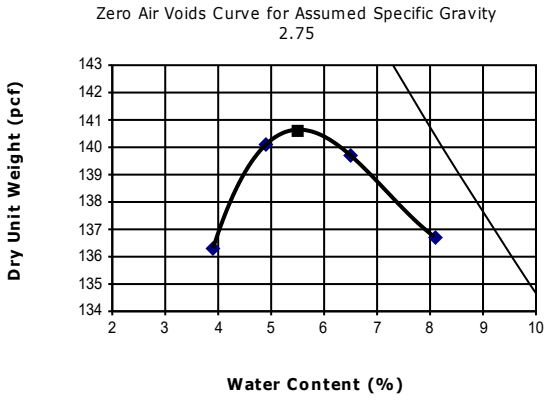
USCS:

Oversized Particles (%): 16.1
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.6**
Optimum Water Content (%): **5.5**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **136.6**
Optimum Water Content (%): **6.5**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0136F
Service Date: 08/23/22
Report Date: 09/28/22
Task:

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Distribution List

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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

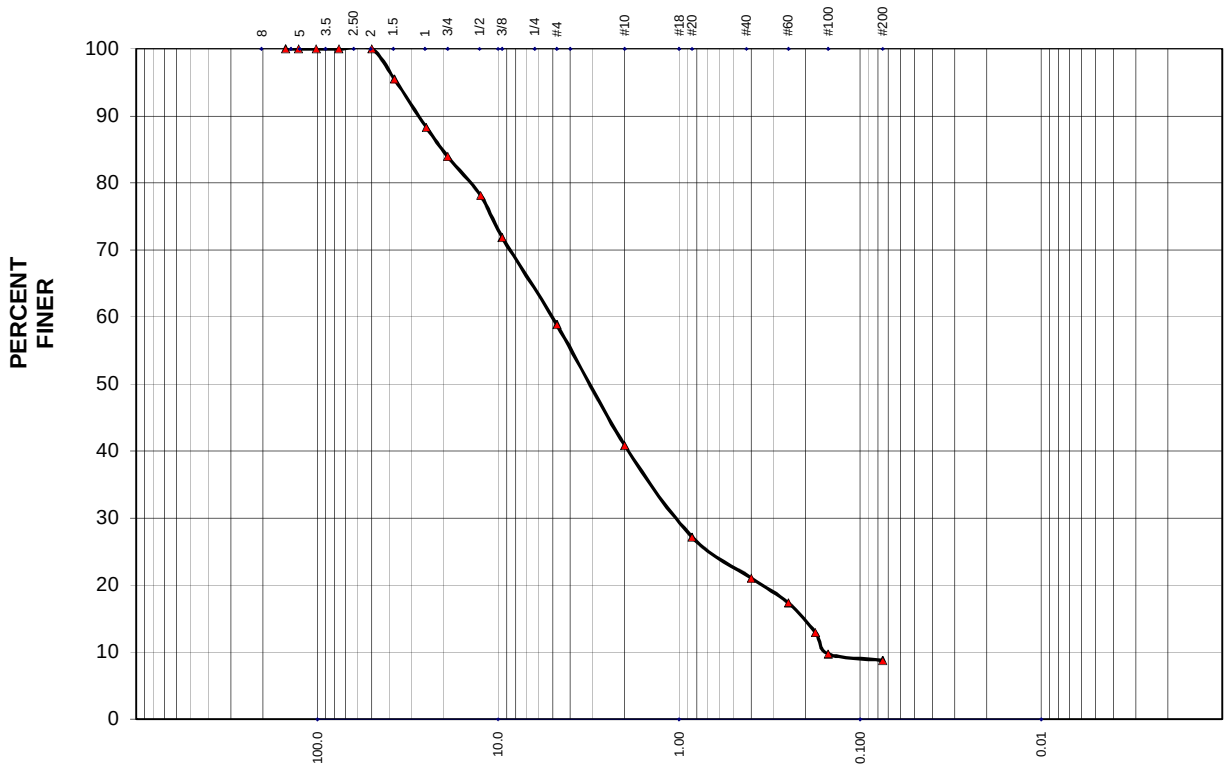
(1) Geosyntec Consultants, Paul Botek

(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	
		36.0	27.2	36.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	41.1		% Sand	50.1	8.8	

Classification: Imported - PENNDOT Approved Material

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"	1100.00	95			
25.0	1"	2845.00	88			
19.0	3/4"	3910.00	84			
12.5	1/2"	5330.00	78			
9.5	3/8"	6850.00	72			
4.75	#4	10010.00	59			
2.00	#10	185.47	41			
0.850	#20	325.71	27			
0.400	#40	388.59	21			
0.250	#60	426.59	17			
0.177	#80	472.35	13			
0.150	#100	505.10	10			
0.075	#200	515.12	9			

Total Dry Wt. 24345 g
Split Wt. 605.12 g

Project: **Elmira High School Football Field**	Project No.: **J5211361**	Date: **9/28/2022**
Location: Elmira, New York	Specification: ASTM C136	
Source Lawrenceville Quarry	Sample #67	

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 9/27/2022

Distribution Page

Report Number: J5211361.0136E
Service Date: 08/23/22
Report Date: 09/28/22
Task:

15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
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Distribution List

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(1) Geosyntec Consultants, Aron Krasnopoler

(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0137B
Service Date: 08/24/22
Report Date: 09/28/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/24/22
Sampled By: Dalton Cook
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material sample #68

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

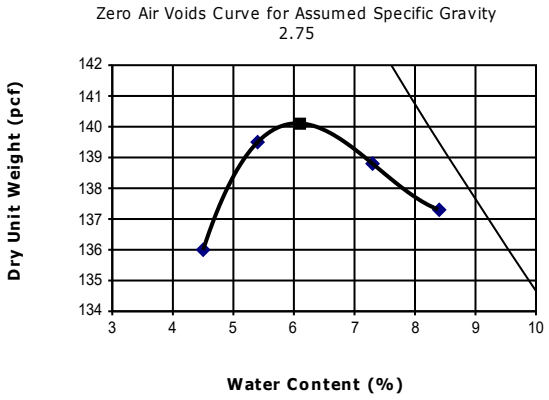
USCS:

Oversized Particles (%): 17.4
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.1**
Optimum Water Content (%): **6.1**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.8**
Optimum Water Content (%): **7.2**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0137B
Service Date: 08/24/22
Report Date: 09/28/22
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

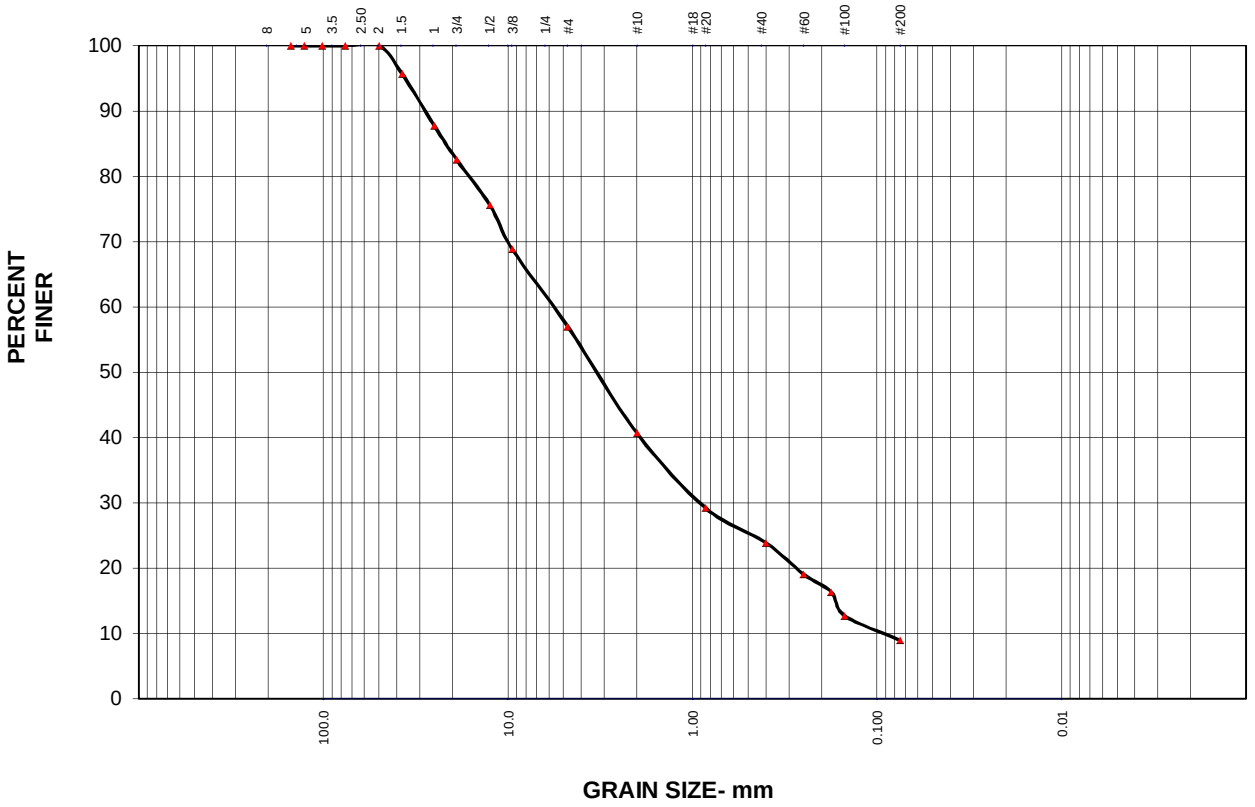
(1) Geosyntec Consultants, Paul Botek

(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	
		34.0	23.8	42.2	Silt (>0.002mm)	Clay (<0.002mm)
0.0	43.0		% Sand	48.1	8.9	

Classification: Imported - PENNDOT Approved Material

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"	965.00	96			
25.0	1"	2760.00	88			
19.0	3/4"	3915.00	83			
12.5	1/2"	5485.00	76			
9.5	3/8"	6985.00	69			
4.75	#4	9650.00	57			
2.00	#10	167.13	41			
0.850	#20	284.30	29			
0.400	#40	338.77	24			
0.250	#60	388.12	19			
0.177	#80	415.66	16			
0.150	#100	452.85	13			
0.075	#200	491.73	9			

Total Dry Wt. 22450 g
Split Wt. 583.12 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**9/28/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #68			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 9/28/2022

Distribution Page

Report Number: J5211361.0137A
Service Date: 08/24/22
Report Date: 09/28/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

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LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0137J
Service Date: 08/24/22
Report Date: 10/03/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/24/22
Sampled By: Dalton Cook
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #72

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

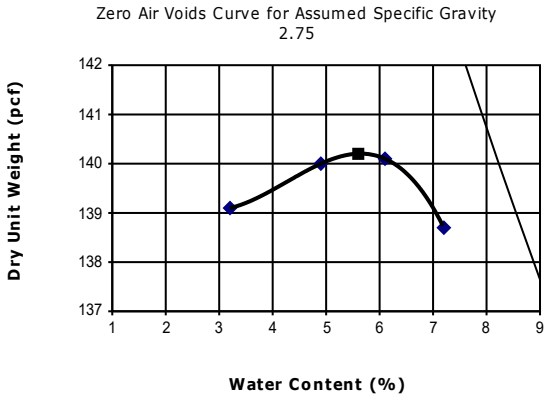
USCS:

Oversized Particles (%): 23.7
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.2**
Optimum Water Content (%): **5.6**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.8**
Optimum Water Content (%): **7.3**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0137J
Service Date: 08/24/22
Report Date: 10/03/22
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, Byran York

(1) Geosyntec Consultants, Colin Lamas

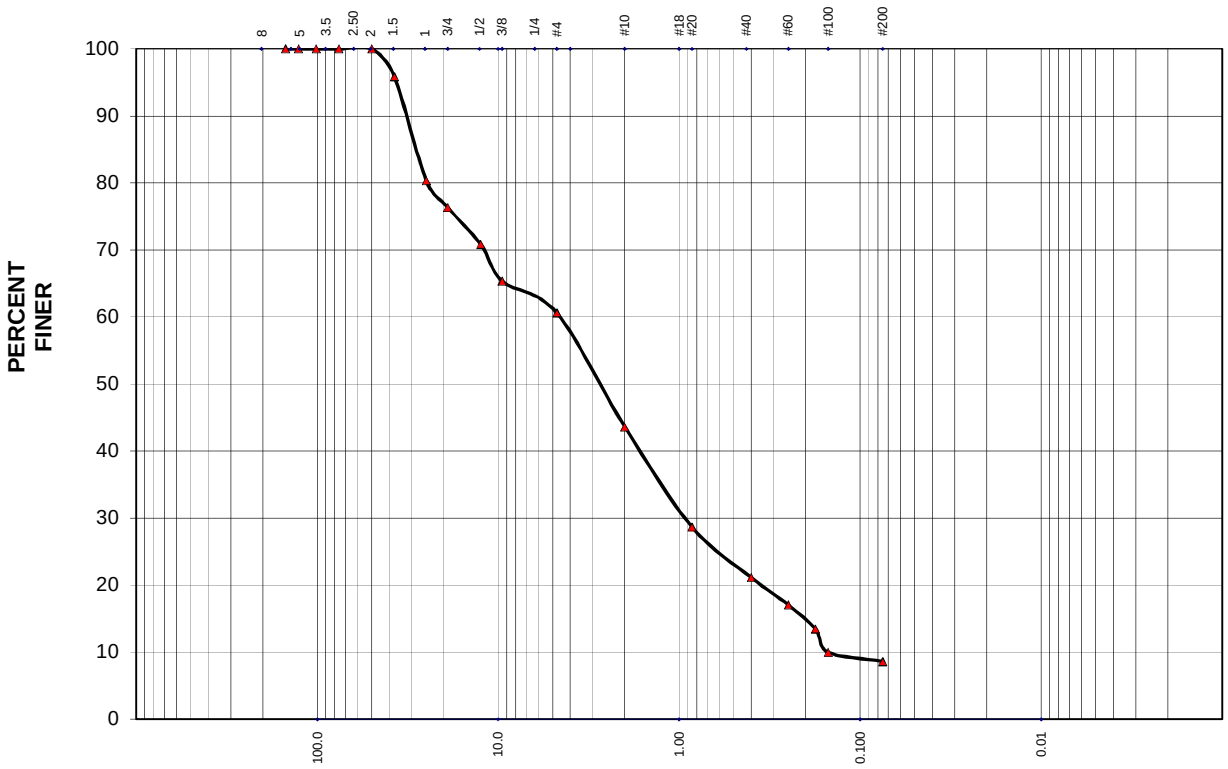
(1) Geosyntec Consultants, Paul Botek

(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	
		32.7	28.8	38.6	Silt (>0.002mm)	Clay (<0.002mm)
0.0	39.4		% Sand	52.0	8.6	

Classification: Imported - PENNDOT Approved Material

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"	830.00	96			
25.0	1"	3920.00	80			
19.0	3/4"	4720.00	76			
12.5	1/2"	5815.00	71			
9.5	3/8"	6910.00	65			
4.75	#4	7855.00	61			
2.00	#10	132.41	44			
0.850	#20	248.91	29			
0.400	#40	307.58	21			
0.250	#60	339.50	17			
0.177	#80	367.42	13			
0.150	#100	394.60	10			
0.075	#200	405.13	9			

Total Dry Wt. 19940 g
Split Wt. 472.35 g

Project: **Elmira High School Football Field**	Project No.: **J5211361**	Date: **10/3/2022**
Location: Elmira, New York	Specification: ASTM C136	
Source Lawrenceville Quarry	Sample #72	

Terracon
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Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 10/3/2022

Distribution Page

Report Number: J5211361.0137I
Service Date: 08/24/22
Report Date: 10/04/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0137L
Service Date: 08/24/22
Report Date: 10/06/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/24/22
Sampled By: Dalton Cook
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #73

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

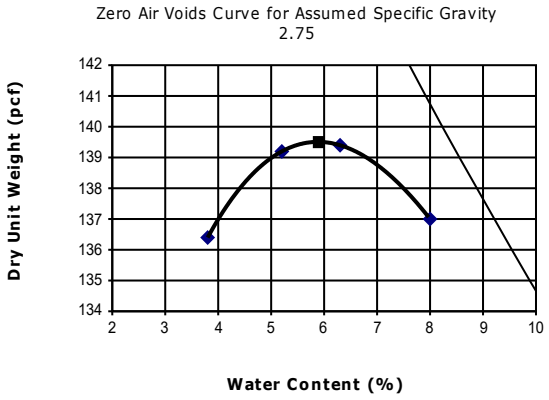
USCS:

Oversized Particles (%): 21.5
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **139.5**
Optimum Water Content (%): **5.9**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.7**
Optimum Water Content (%): **7.3**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0137L
Service Date: 08/24/22
Report Date: 10/06/22
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

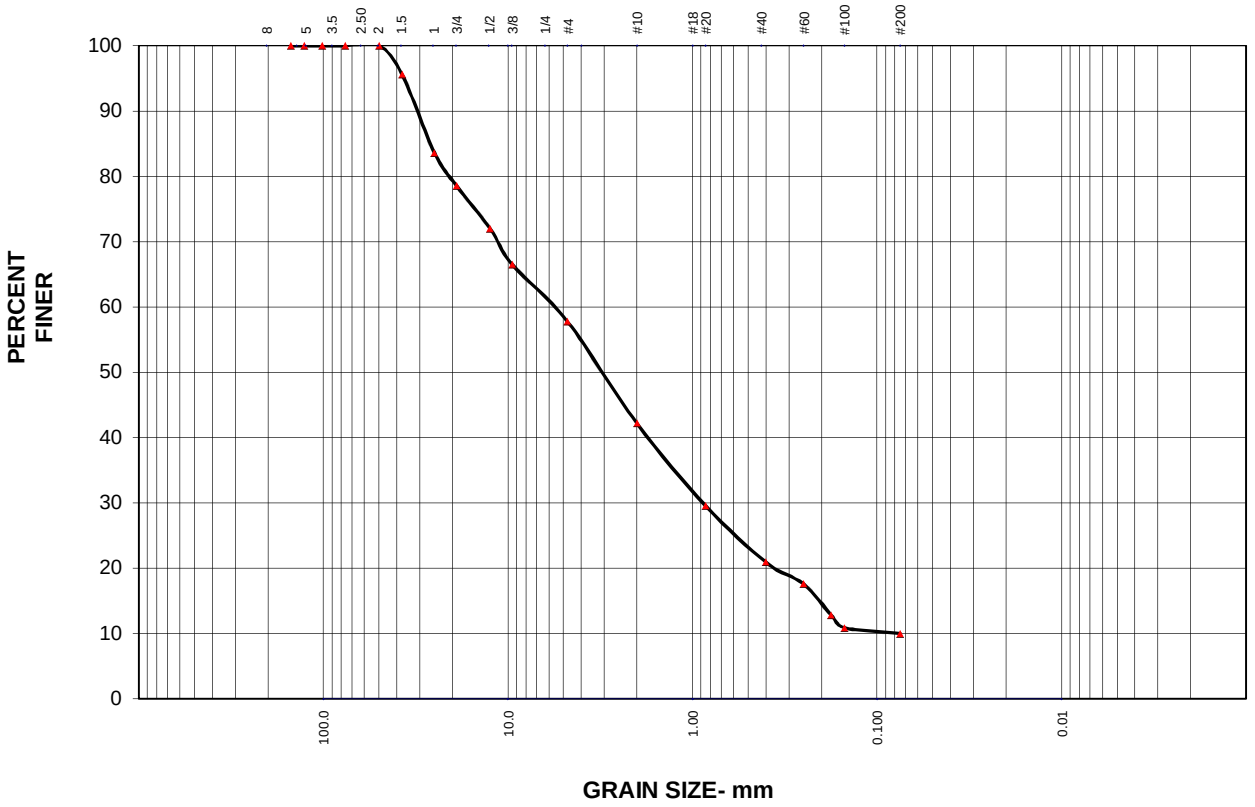
(1) Geosyntec Consultants, Paul Botek

(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	
		32.6	26.4	41.0	Silt (>0.002mm)	Clay (<0.002mm)
0.0	42.2		% Sand	47.8	10.0	

Classification: Imported - PENNDOT Approved Material

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"	845.00	96			
25.0	1"	3155.00	84			
19.0	3/4"	4125.00	79			
12.5	1/2"	5380.00	72			
9.5	3/8"	6440.00	66			
4.75	#4	8120.00	58			
2.00	#10	134.81	42			
0.850	#20	243.76	30			
0.400	#40	318.89	21			
0.250	#60	347.62	18			
0.177	#80	388.65	13			
0.150	#100	405.50	11			
0.075	#200	413.28	10			

Total Dry Wt. 19220 g
Split Wt. 499.65 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**10/4/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #73			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 10/4/2022

Distribution Page

Report Number: J5211361.0137K
Service Date: 08/24/22
Report Date: 10/06/22
Task:

15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
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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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0137P
Service Date: 08/24/22
Report Date: 10/10/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/24/22
Sampled By: Dalton Cook
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #75

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

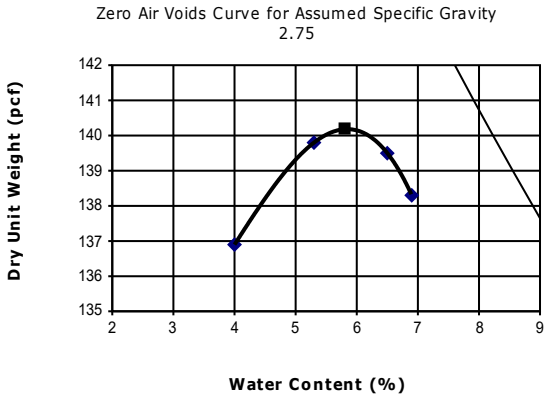
USCS:

Oversized Particles (%): 19.4
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.2**
Optimum Water Content (%): **5.8**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.2**
Optimum Water Content (%): **7.0**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0137P
Service Date: 08/24/22
Report Date: 10/10/22
Task:

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Rochester, NY 14624-2300
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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

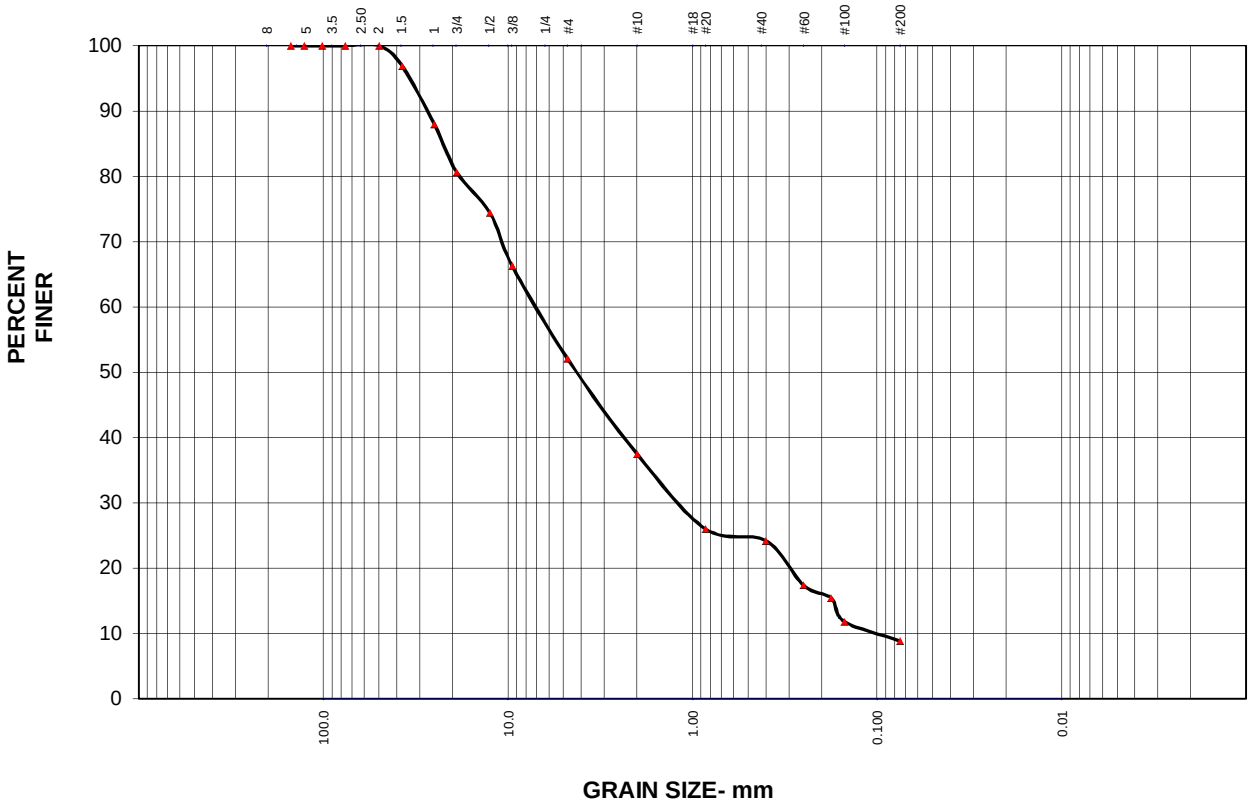
(1) Geosyntec Consultants, Paul Botek

(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	
		33.7	26.6	39.7	Silt (>0.002mm)	Clay (<0.002mm)
0.0	47.9		% Sand	43.2	8.9	

Classification: Imported - PENNDOT Approved Material

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"	605.00	97			
25.0	1"	2350.00	88			
19.0	3/4"	3765.00	81			
12.5	1/2"	4980.00	74			
9.5	3/8"	6550.00	66			
4.75	#4	9325.00	52			
2.00	#10	161.92	37			
0.850	#20	289.43	26			
0.400	#40	309.56	24			
0.250	#60	385.41	17			
0.177	#80	407.01	15			
0.150	#100	447.21	12			
0.075	#200	479.91	9			

Total Dry Wt. 19450 g
Split Wt. 578.47 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**10/10/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #75			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 10/7/2022

Distribution Page

Report Number: J5211361.0137O
Service Date: 08/24/22
Report Date: 10/10/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0138B
Service Date: 08/30/22
Report Date: 10/13/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/30/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #76

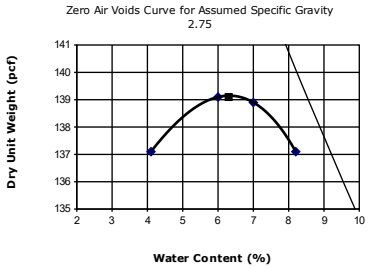
Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 23.8
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65



Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **139.1**
Optimum Water Content (%): **6.3**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **132.6**
Optimum Water Content (%): **8.1**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0138B
Service Date: 08/30/22
Report Date: 10/13/22
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

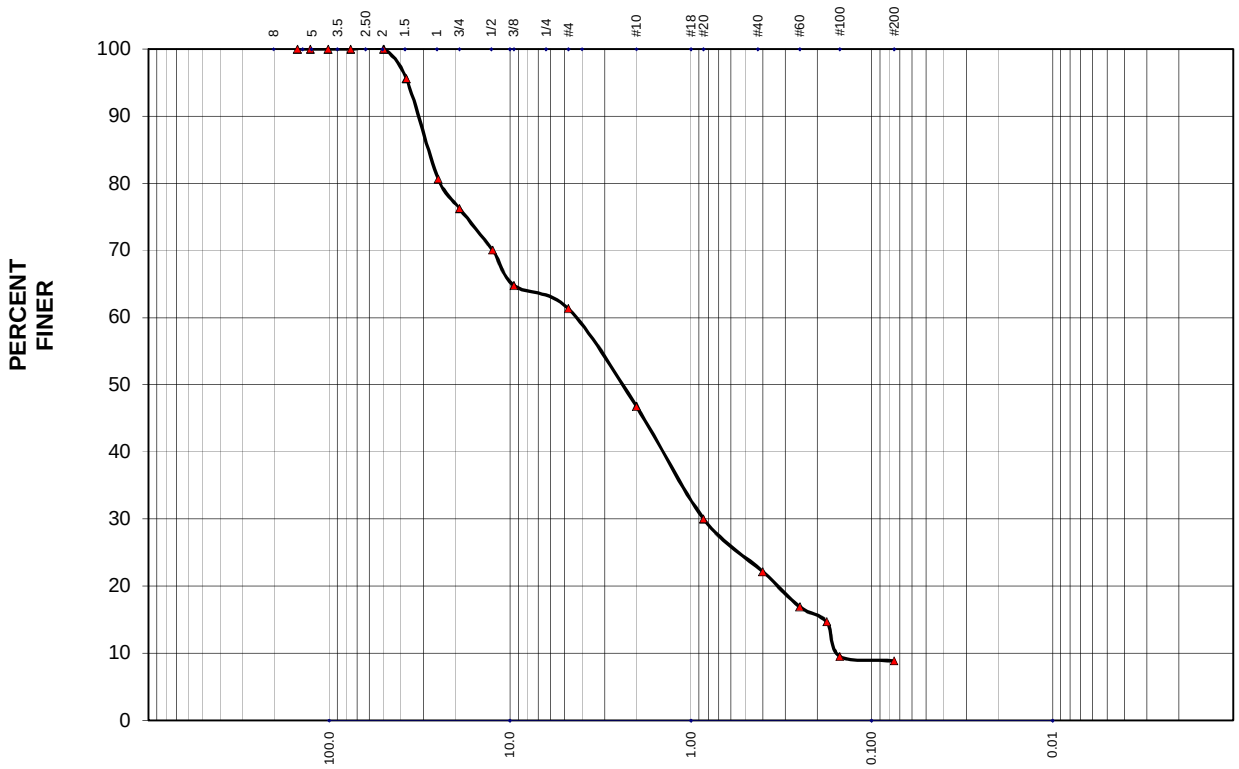
(1) Geosyntec Consultants, Paul Botek

(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	
		27.7	31.9	40.4	Silt (>0.002mm)	Clay (<0.002mm)
0.0	38.7		% Sand	52.5	8.8	

Classification: Imported - PENNDOT Approved Material

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"	910.00	96			
25.0	1"	4015.00	81			
19.0	3/4"	4935.00	76			
12.5	1/2"	6220.00	70			
9.5	3/8"	7315.00	65			
4.75	#4	8030.00	61			
2.00	#10	109.45	47			
0.850	#20	235.45	30			
0.400	#40	294.61	22			
0.250	#60	334.06	17			
0.177	#80	350.98	15			
0.150	#100	389.42	10			
0.075	#200	394.75	9			

Total Dry Wt. 20765 g
Split Wt. 461.24 g

Project: **Elmira High School Football Field**	Project No.: **J5211361**	Date: **10/13/2022**
Location: Elmira, New York	Specification: ASTM C136	
Source Lawrenceville Quarry	Sample #76	

15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 10/111

Distribution Page

Report Number: J5211361.0138A
Service Date: 08/30/22
Report Date: 10/13/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0138D
Service Date: 08/30/22
Report Date: 10/17/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/30/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #77

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

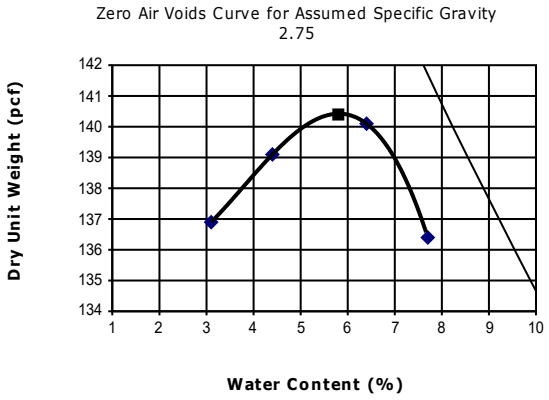
USCS:

Oversized Particles (%): 16.7
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.4**
Optimum Water Content (%): **5.8**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **136.2**
Optimum Water Content (%): **6.9**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0138D
Service Date: 08/30/22
Report Date: 10/17/22
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

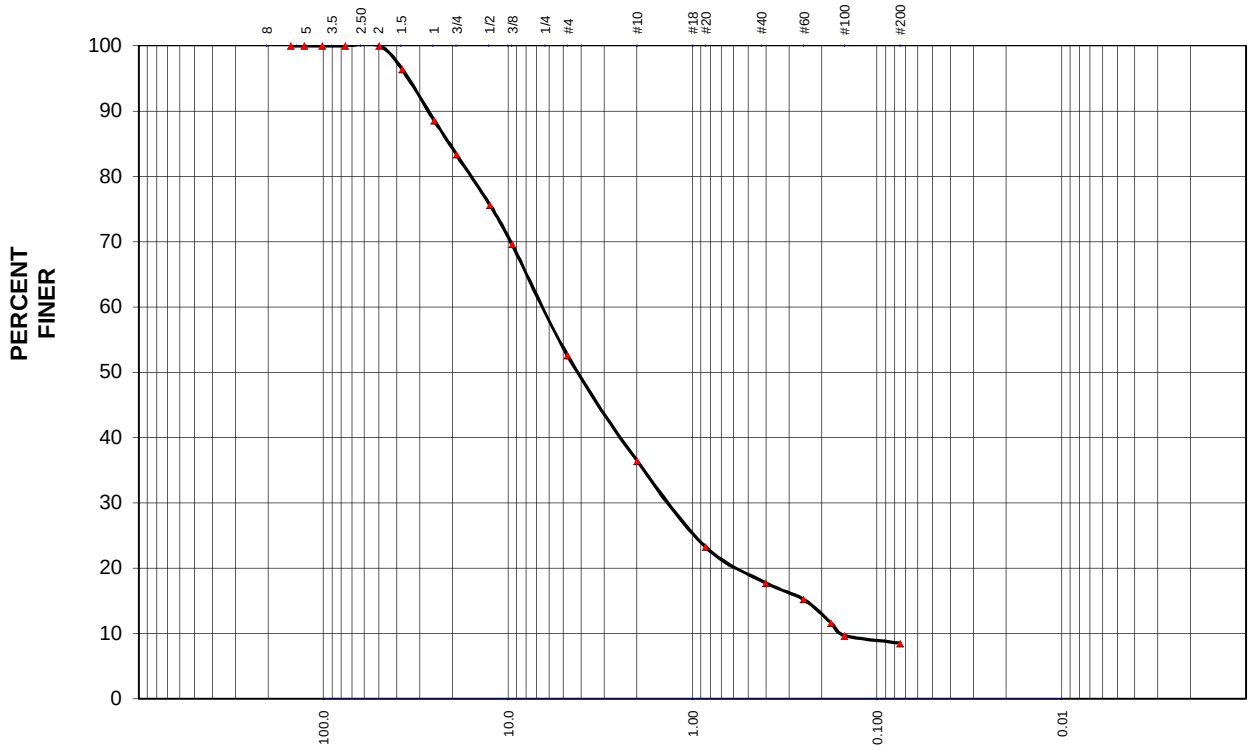
(1) Geosyntec Consultants, Paul Botek

(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	
		36.6	29.9	33.5	Silt (>0.002mm)	Clay (<0.002mm)
0.0	47.5		% Sand	44.0	8.5	

Classification: Imported - PENNDOT Approved Material

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"	725.00	96			
25.0	1"	2310.00	88			
19.0	3/4"	3350.00	83			
12.5	1/2"	4900.00	76			
9.5	3/8"	6105.00	70			
4.75	#4	9525.00	53			
2.00	#10	181.46	36			
0.850	#20	329.54	23			
0.400	#40	391.56	18			
0.250	#60	420.01	15			
0.177	#80	460.94	12			
0.150	#100	482.34	10			
0.075	#200	495.18	9			

Total Dry Wt. 20070 g
Split Wt. 591.21 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**10/17/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #77			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 10/14/2022

Distribution Page

Report Number: J5211361.0138C
Service Date: 08/30/22
Report Date: 10/17/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0138F
Service Date: 08/30/22
Report Date: 10/21/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/30/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #78

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method A
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

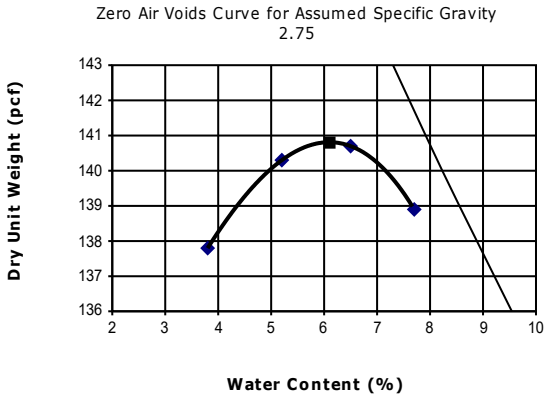
USCS:

Oversized Particles (%): 21.0
Moisture (%): 0.5
Sieve for Oversize Fraction: 4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.8**
Optimum Water Content (%): **6.1**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.4**
Optimum Water Content (%): **7.6**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0138F
Service Date: 08/30/22
Report Date: 10/21/22
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

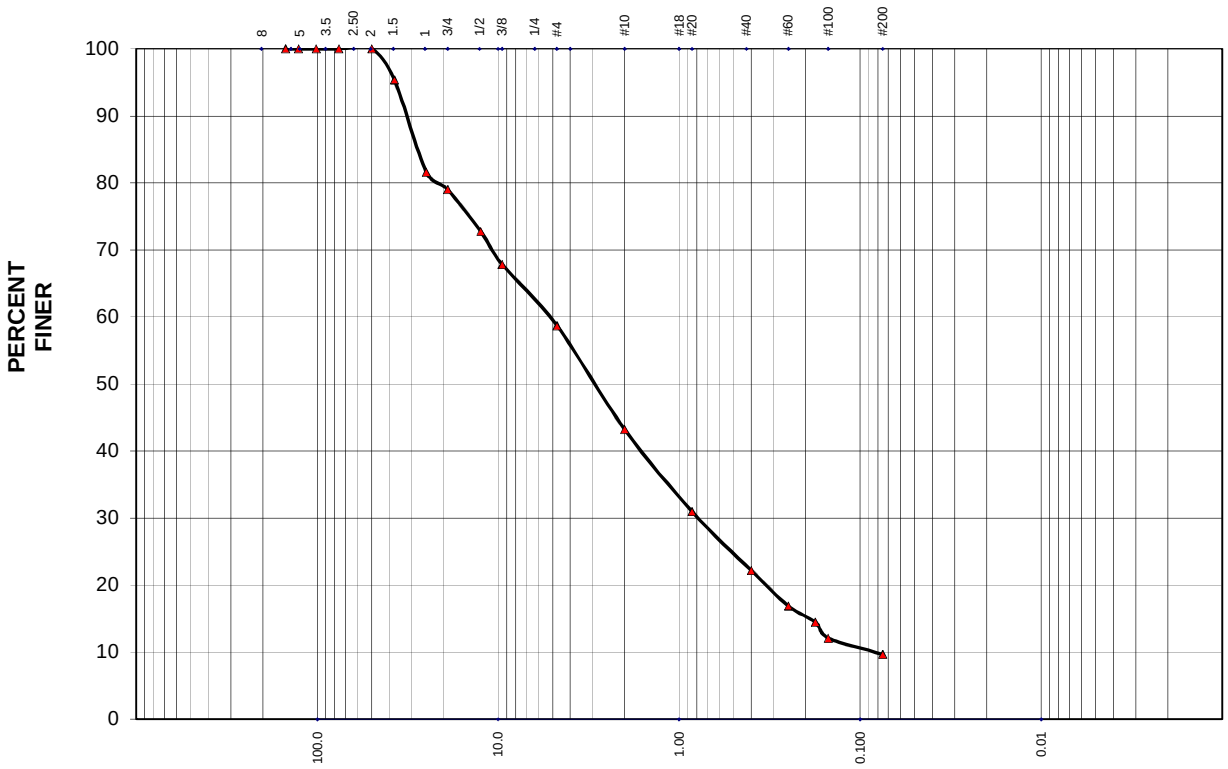
(1) Geosyntec Consultants, Paul Botek

(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	
		31.6	24.9	43.4	Silt (>0.002mm)	Clay (<0.002mm)
0.0	41.3		% Sand	49.0	9.7	

Classification: Imported - PENNDOT Approved Material

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"	935.00	95			
25.0	1"	3705.00	82			
19.0	3/4"	4225.00	79			
12.5	1/2"	5490.00	73			
9.5	3/8"	6485.00	68			
4.75	#4	8315.00	59			
2.00	#10	139.03	43			
0.850	#20	248.61	31			
0.400	#40	327.60	22			
0.250	#60	374.91	17			
0.177	#80	396.59	14			
0.150	#100	418.25	12			
0.075	#200	439.62	10			

Total Dry Wt. 20145 g
Split Wt. 526.48 g

Project: **Elmira High School Football Field**	Project No.: **J5211361**	Date: **10/21/2022**
Location: Elmira, New York	Specification: ASTM C136	
Source Lawrenceville Quarry	Sample #78	

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 10/20/2022

Distribution Page

Report Number: J5211361.0138E
Service Date: 08/30/22
Report Date: 10/21/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0138H
Service Date: 08/30/22
Report Date: 10/21/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/30/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #79

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

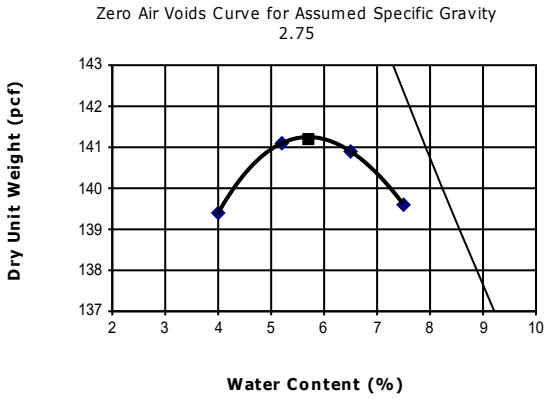
USCS:

Oversized Particles (%): 27.1
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **141.2**
Optimum Water Content (%): **5.7**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.0**
Optimum Water Content (%): **7.6**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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Distribution Page

Report Number: J5211361.0138H
Service Date: 08/30/22
Report Date: 10/21/22
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

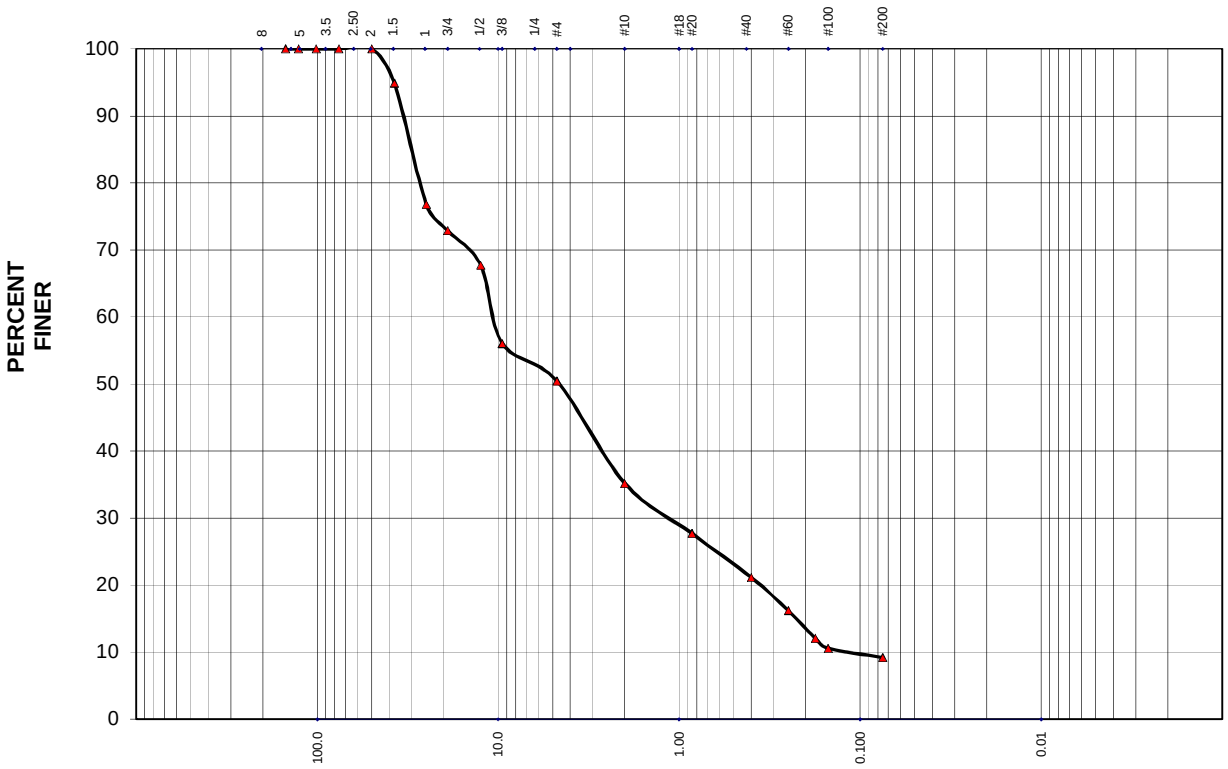
(1) Geosyntec Consultants, Paul Botek

(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	
		37.0	18.2	44.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	49.5		% Sand	41.3	9.2	

Classification: Imported - PENNDOT Approved Material

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"	940.00	95			
25.0	1"	4280.00	77			
19.0	3/4"	5005.00	73			
12.5	1/2"	5955.00	68			
9.5	3/8"	8105.00	56			
4.75	#4	9140.00	50			
2.00	#10	154.64	35			
0.850	#20	230.60	28			
0.400	#40	297.01	21			
0.250	#60	346.82	16			
0.177	#80	389.06	12			
0.150	#100	404.15	11			
0.075	#200	418.05	9			

Total Dry Wt. 18450 g
Split Wt. 511.24 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**10/21/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #79			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 10/20/2022

Distribution Page

Report Number: J5211361.0138G
Service Date: 08/30/22
Report Date: 10/21/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0138J
Service Date: 08/30/22
Report Date: 10/24/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/30/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #80

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

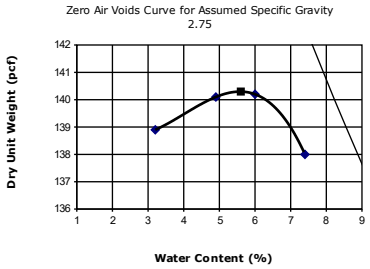
USCS:

Oversized Particles (%): 22.9
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.3**
Optimum Water Content (%): **5.6**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.2**
Optimum Water Content (%): **7.1**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0138J
Service Date: 08/30/22
Report Date: 10/24/22
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

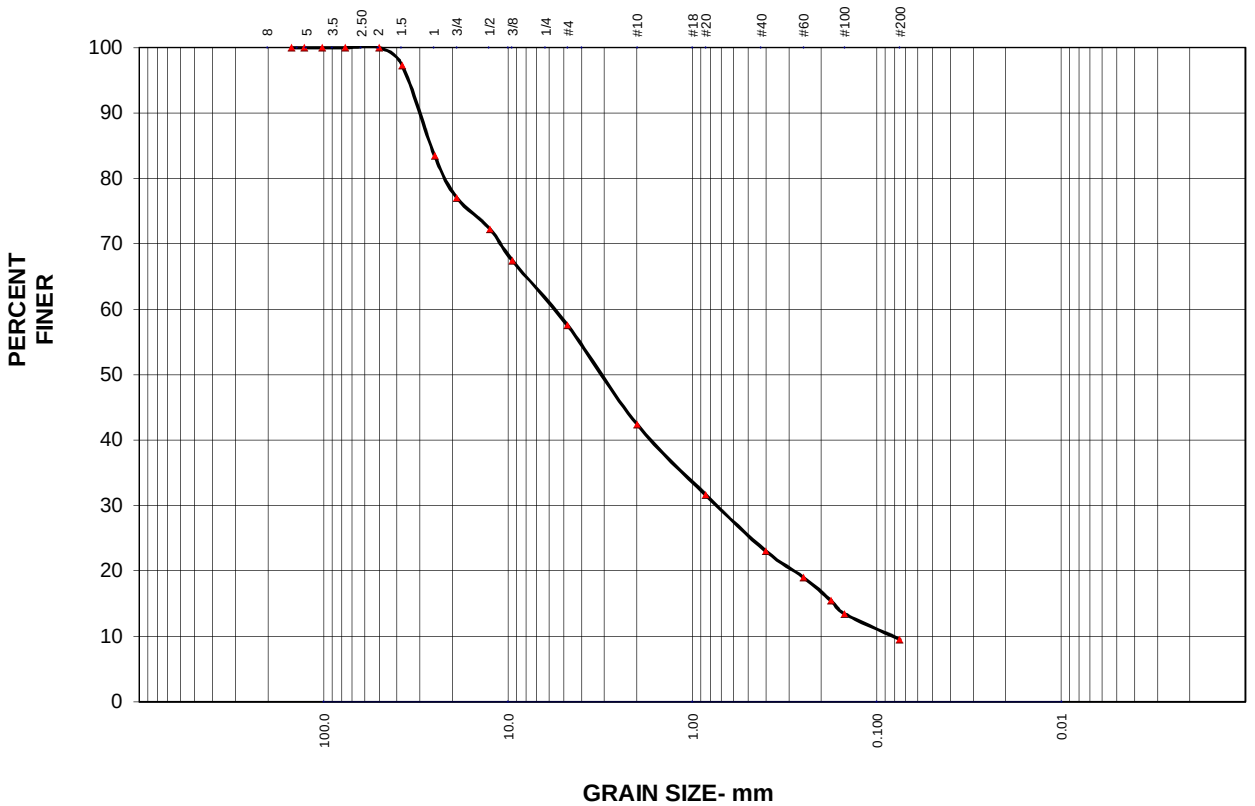
(1) Geosyntec Consultants, Paul Botek

(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	
		31.5	22.4	46.1	Silt (>0.002mm)	Clay (<0.002mm)
0.0	42.5		% Sand	48.0	9.5	

Classification: Imported - PENNDOT Approved Material

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"	500.00	97			
25.0	1"	3050.00	83			
19.0	3/4"	4235.00	77			
12.5	1/2"	5120.00	72			
9.5	3/8"	6005.00	67			
4.75	#4	7840.00	58			
2.00	#10	141.25	42			
0.850	#20	241.97	32			
0.400	#40	322.74	23			
0.250	#60	360.01	19			
0.177	#80	393.56	15			
0.150	#100	412.18	13			
0.075	#200	448.96	10			

Total Dry Wt. 18455 g
Split Wt. 538.12 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**10/23/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #80			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 10/21/2022

Distribution Page

Report Number: J5211361.0138I
Service Date: 08/30/22
Report Date: 10/24/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0138L
Service Date: 08/30/22
Report Date: 10/24/22

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 Number: J5211361

Material Information

Source of Material: Lawrencville Quarry
Proposed Use: Structural Fill

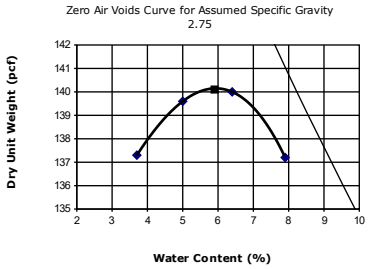
Sample Information

Sample Date: 08/30/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #81

Laboratory Test Data

	Result	Specifications
Test Procedure:	ASTM D698	
Test Method:	Method C	
Sample Preparation:	Wet	
Rammer Type:	Mechanical	
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		
Oversized Particles (%):	21.1	
Moisture (%):	0.5	
Sieve for Oversize Fraction:	3/4	
Assumed Bulk Specific Gravity of Oversized Particles:	2.65	



Corrected for Oversized Particles (ASTM D4718)

Maximum Dry Unit Weight (pcf):	**140.1**
Optimum Water Content (%):	**5.9**

Uncorrected Values

Maximum Dry Unit Weight (pcf):	**134.7**
Optimum Water Content (%):	**7.4**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0138L
Service Date: 08/30/22
Report Date: 10/24/22
Task:

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

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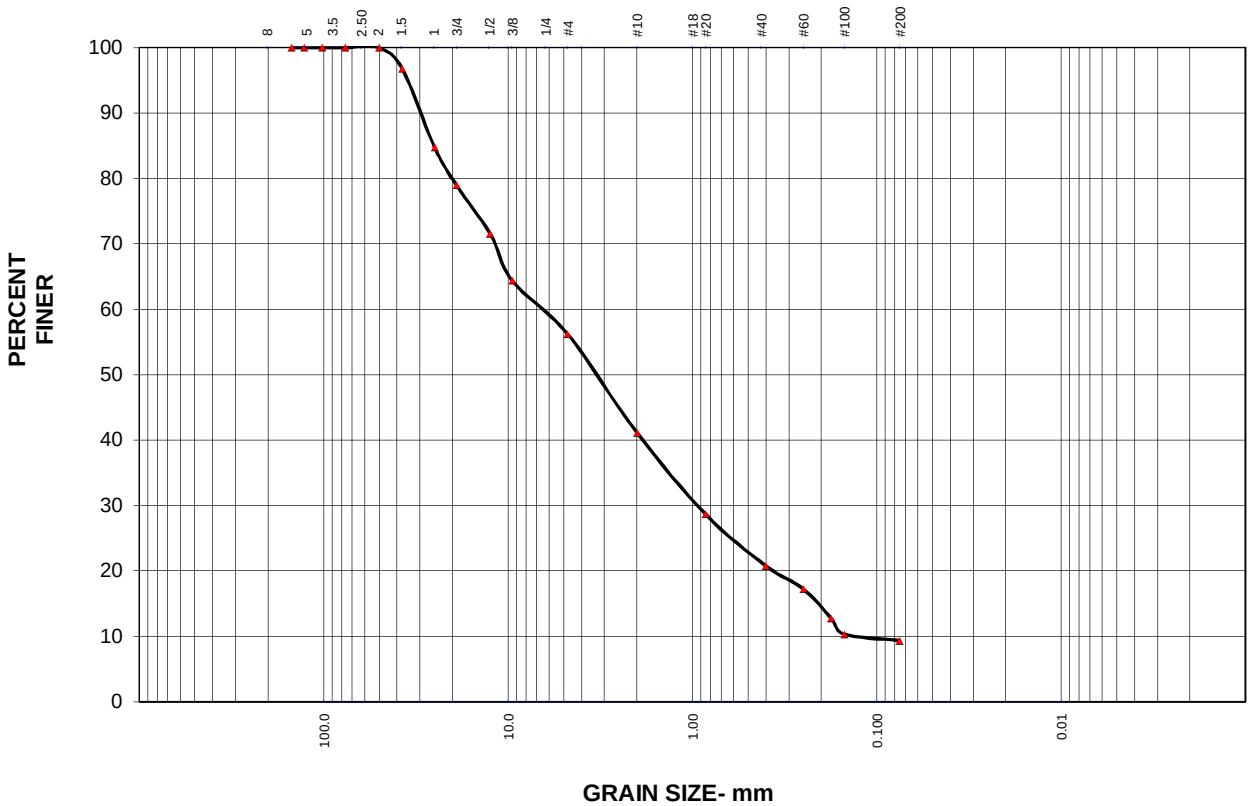
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GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		32.2	26.5	41.3	Silt (>0.002mm)	Clay (<0.002mm)
0.0	43.8		% Sand	46.9	9.3	

Classification: Imported - PENNDOT Approved Material

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"	530.00	97			
25.0	1"	2530.00	85			
19.0	3/4"	3485.00	79			
12.5	1/2"	4710.00	72			
9.5	3/8"	5895.00	64			
4.75	#4	7245.00	56			
2.00	#10	128.94	41			
0.850	#20	235.19	29			
0.400	#40	302.58	21			
0.250	#60	332.85	17			
0.177	#80	371.01	13			
0.150	#100	392.03	10			
0.075	#200	400.41	9			

Total Dry Wt. 16550 g
Split Wt. 480.12 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**10/4/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #73			

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Rochester, NY 14624
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 10/4/2022

Distribution Page

Report Number: J5211361.0138K
Service Date: 08/30/22
Report Date: 10/24/22
Task:

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

Distribution List

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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0138N
Service Date: 08/30/22
Report Date: 10/25/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/30/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #82

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

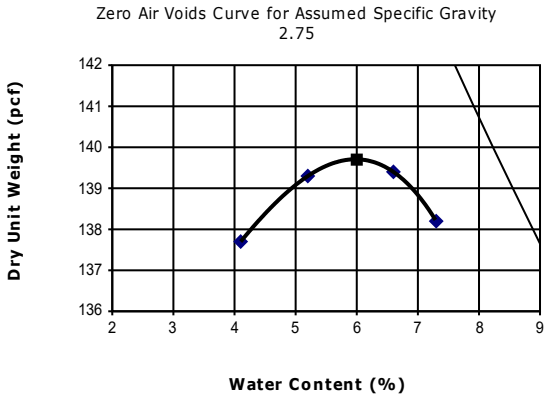
USCS:

Oversized Particles (%): 23.7
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **139.7**
Optimum Water Content (%): **6.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.3**
Optimum Water Content (%): **7.7**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0138N
Service Date: 08/30/22
Report Date: 10/25/22
Task:

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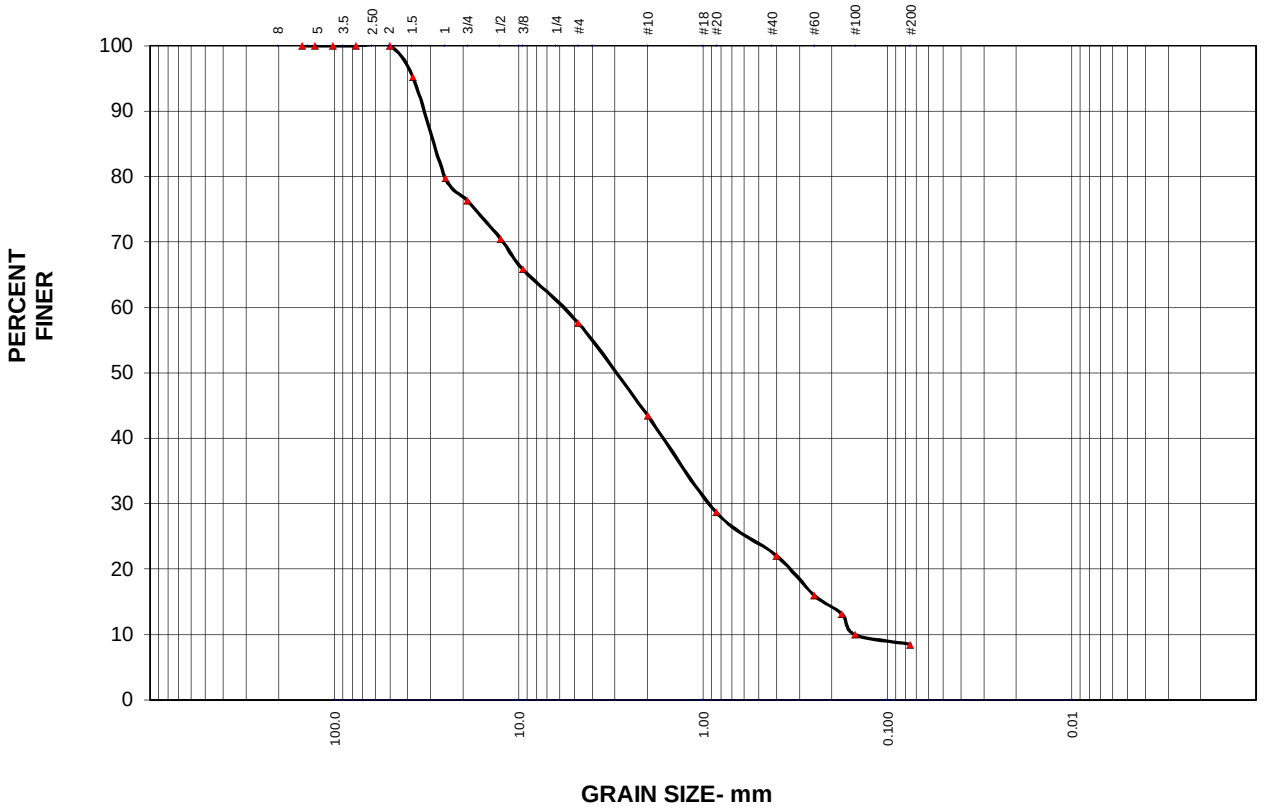
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(1) Geosyntec Consultants, William Steier

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



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		28.8	30.1	41.1	Silt (>0.002mm)	Clay (<0.002mm)
0.0	42.4	% Sand		49.1	8.5	

Classification: Imported - PENNDOT Approved Material

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"	1105.00	95			
25.0	1"	4685.00	80			
19.0	3/4"	5490.00	76			
12.5	1/2"	6850.00	70			
9.5	3/8"	7925.00	66			
4.75	#4	9830.00	58			
2.00	#10	121.71	43			
0.850	#20	248.92	29			
0.400	#40	305.96	22			
0.250	#60	358.13	16			
0.177	#80	382.73	13			
0.150	#100	410.09	10			
0.075	#200	422.88	8			

Total Dry Wt. 23195 g
Split Wt. 495.99 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**10/25/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #82			

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Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 10/25/2022

Distribution Page

Report Number: J5211361.0138M
Service Date: 08/30/22
Report Date: 10/25/22
Task:

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

Distribution List

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(1) Geosyntec Consultants, Paul Botek

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(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0138O
Service Date: 08/30/22
Report Date: 10/27/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/30/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #83

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

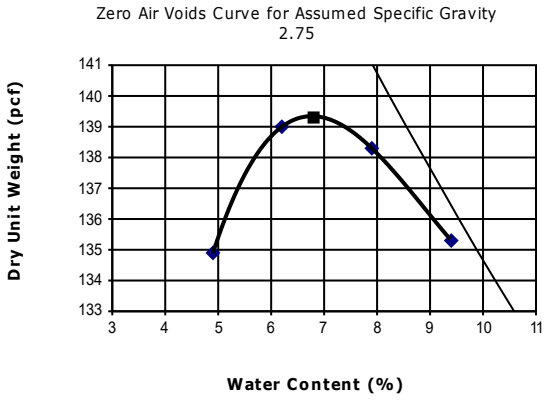
USCS:

Oversized Particles (%): 16.5
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **139.3**
Optimum Water Content (%): **6.8**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.3**
Optimum Water Content (%): **8.0**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0138O
Service Date: 08/30/22
Report Date: 10/27/22
Task:

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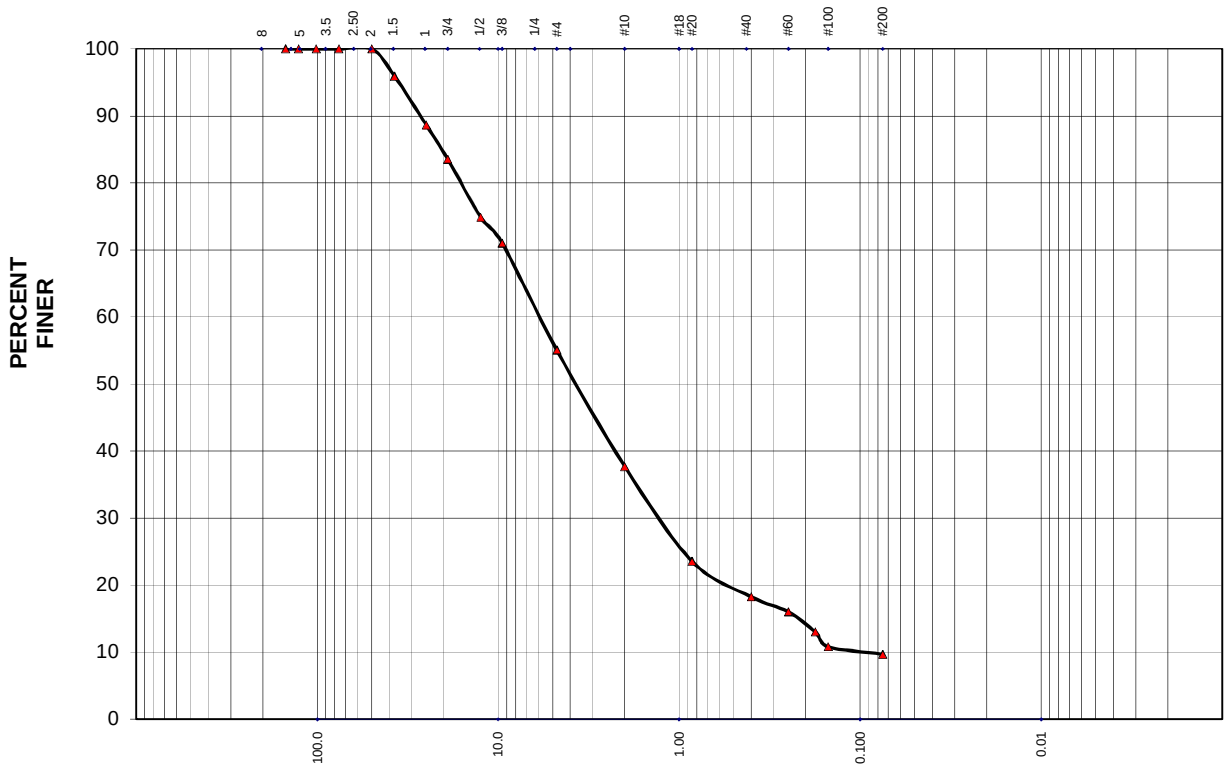
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GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		38.3	31.2	30.5	Silt (>0.002mm)	Clay (<0.002mm)
0.0	44.9		% Sand	45.4	9.7	

Classification: Imported - PENNDOT Approved Material

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"	905.00	96			
25.0	1"	2535.00	89			
19.0	3/4"	3680.00	84			
12.5	1/2"	5610.00	75			
9.5	3/8"	6475.00	71			
4.75	#4	10035.00	55			
2.00	#10	192.43	38			
0.850	#20	348.92	24			
0.400	#40	407.48	18			
0.250	#60	432.16	16			
0.177	#80	465.34	13			
0.150	#100	489.98	11			
0.075	#200	502.31	10			

Total Dry Wt. 22345 g
Split Wt. 609.46 g

Project: **Elmira High School Football Field**	Project No.: **J5211361**	Date: **10/26/2022**
Location: Elmira, New York	Specification: ASTM C136	
Source Lawrenceville Quarry	Sample #83	

Terracon
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Rochester, NY 14624
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 10/26/2022

Distribution Page

Report Number: J5211361.0138P
Service Date: 08/30/22
Report Date: 10/27/22
Task:

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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0138R
Service Date: 08/30/22
Report Date: 11/01/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/30/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #84

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

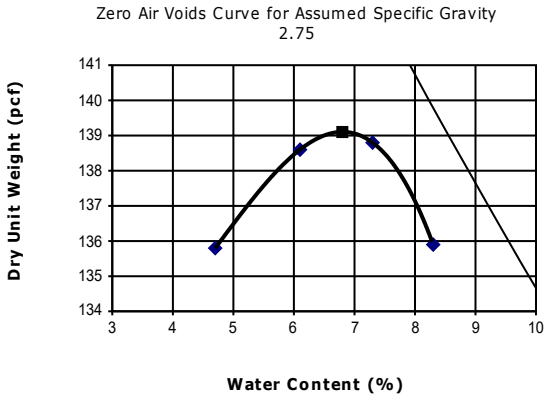
USCS:

Oversized Particles (%): 19.5
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **139.1**
Optimum Water Content (%): **6.8**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.0**
Optimum Water Content (%): **8.4**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0138R
Service Date: 08/30/22
Report Date: 11/01/22
Task:

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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

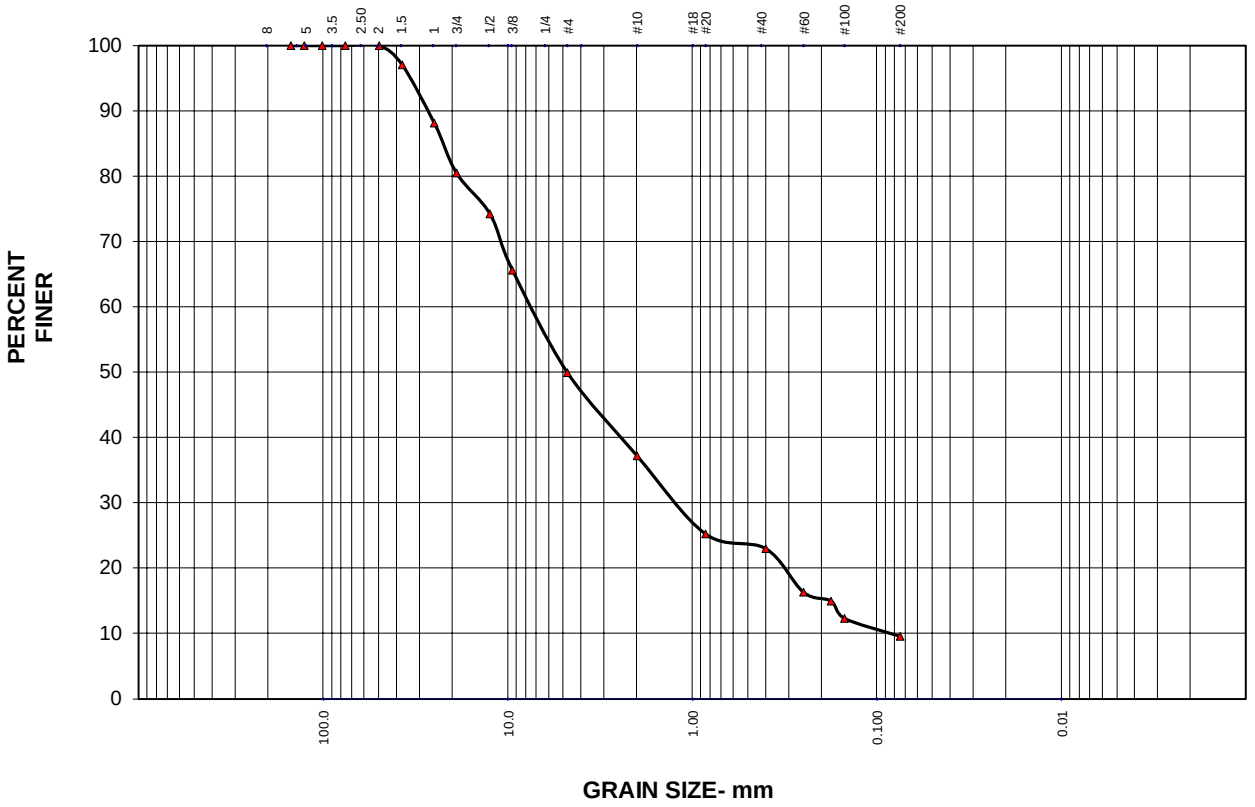
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(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

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



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		31.7	29.6	38.7	Silt (>0.002mm)	Clay (<0.002mm)
0.0	50.0		% Sand	40.4	9.6	

Classification: Imported - PENNDOT Approved Material

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"	525.00	97			
25.0	1"	2130.00	88			
19.0	3/4"	3505.00	80			
12.5	1/2"	4625.00	74			
9.5	3/8"	6165.00	66			
4.75	#4	8980.00	50			
2.00	#10	142.56	37			
0.850	#20	275.84	25			
0.400	#40	300.41	23			
0.250	#60	375.31	16			
0.177	#80	389.94	15			
0.150	#100	419.65	12			
0.075	#200	450.03	10			

Total Dry Wt. 17950 g
Split Wt. 556.82 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**10/10/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #84			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 10/7/2022

Distribution Page

Report Number: J5211361.0138Q
Service Date: 08/30/22
Report Date: 11/01/22
Task:

15 Marway Cir, Ste 2B
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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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0138T
Service Date: 08/30/22
Report Date: 11/02/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 08/30/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #85

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

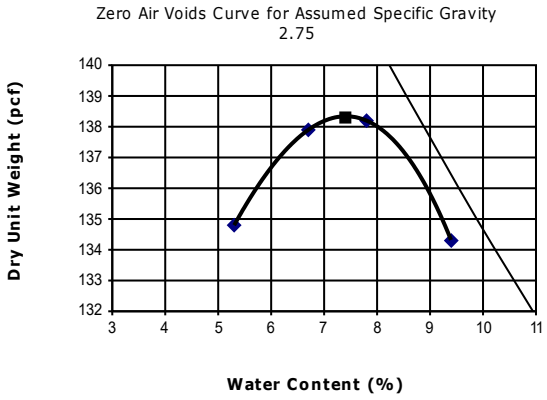
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 15.1
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.3**
Optimum Water Content (%): **7.4**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.4**
Optimum Water Content (%): **8.7**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0138T
Service Date: 08/30/22
Report Date: 11/02/22
Task:

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Rochester, NY 14624-2300
585-247-3471

Distribution List

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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

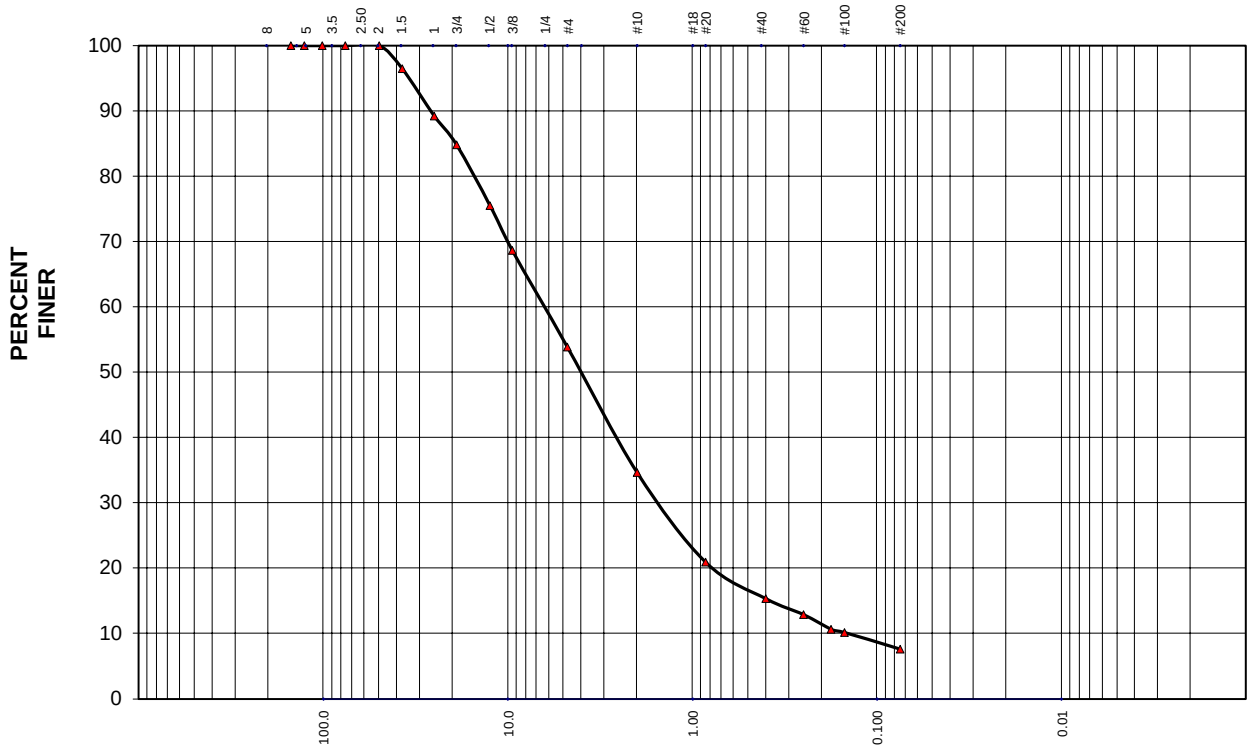
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(1) Geosyntec Consultants, Paul Brookner

(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	
		41.4	29.8	28.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	46.2		% Sand	46.2	7.6	

Classification: Imported - PENNDOT Approved Material

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"	680.00	97			
25.0	1"	2100.00	89			
19.0	3/4"	2950.00	85			
12.5	1/2"	4760.00	76			
9.5	3/8"	6095.00	69			
4.75	#4	8985.00	54			
2.00	#10	199.41	35			
0.850	#20	342.78	21			
0.400	#40	401.04	15			
0.250	#60	426.48	13			
0.177	#80	449.78	11			
0.150	#100	455.09	10			
0.075	#200	481.24	8			

Total Dry Wt. 19455 g
Split Wt. 560.46 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**11/2/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #85			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 11/1/2022

Distribution Page

Report Number: J5211361.0138S
Service Date: 08/30/22
Report Date: 11/02/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0149H
Service Date: 09/14/22
Report Date: 11/11/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 09/14/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #89

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

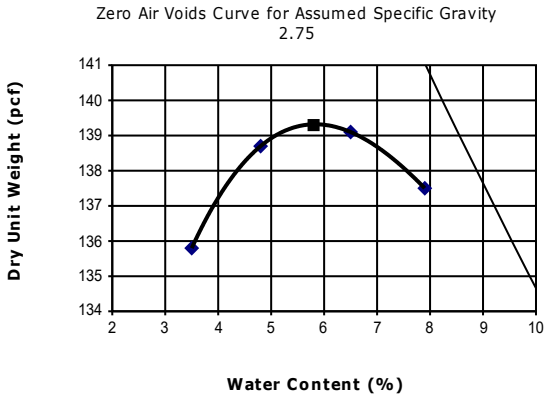
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 22.5
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **139.3**
Optimum Water Content (%): **5.8**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.3**
Optimum Water Content (%): **7.4**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0149H
Service Date: 09/14/22
Report Date: 11/11/22
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

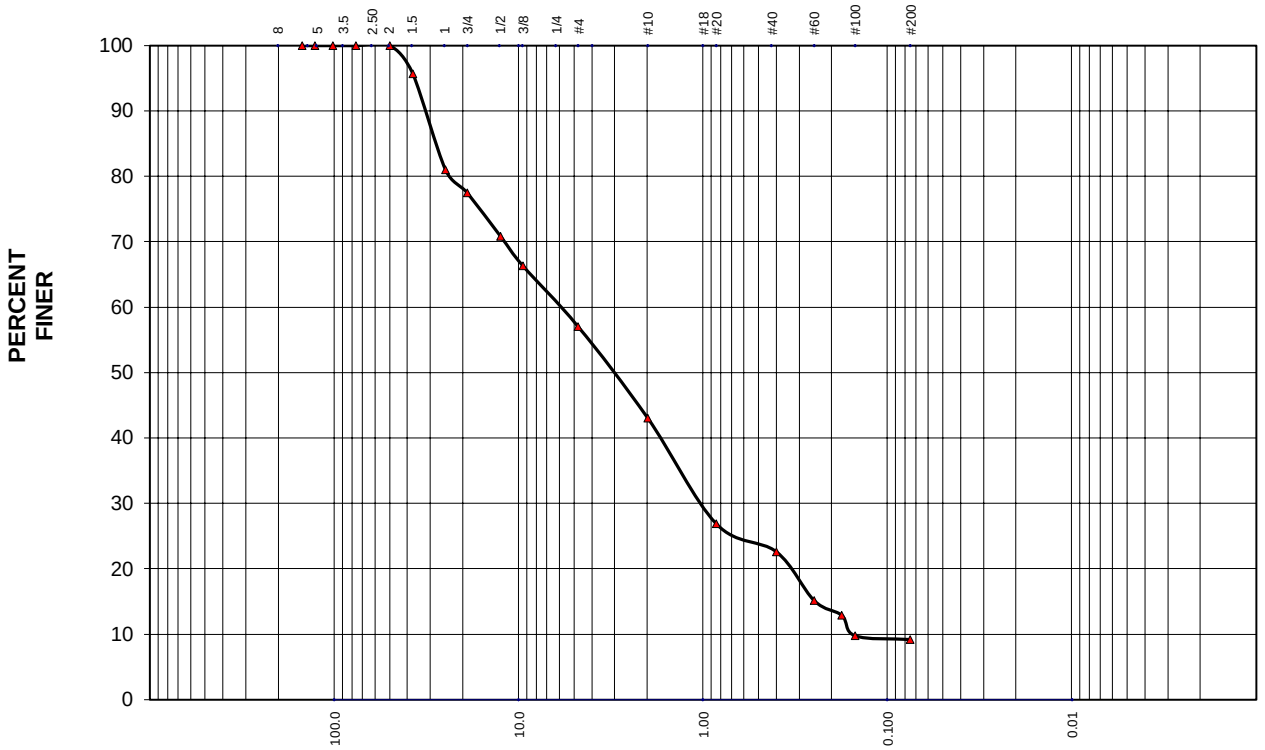
(1) Geosyntec Consultants, Paul Botek

(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	
		29.3	33.7	37.0	Silt (>0.002mm)	Clay (<0.002mm)
0.0	42.9		% Sand	47.8	9.3	

Classification: Imported - PENNDOT Approved Material

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"	990.00	96			
25.0	1"	4325.00	81			
19.0	3/4"	5140.00	78			
12.5	1/2"	6655.00	71			
9.5	3/8"	7695.00	66			
4.75	#4	9805.00	57			
2.00	#10	122.93	43			
0.850	#20	264.54	27			
0.400	#40	302.51	23			
0.250	#60	367.92	15			
0.177	#80	387.41	13			
0.150	#100	415.38	10			
0.075	#200	419.94	9			

Total Dry Wt. 22845 g
Split Wt. 501.24 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**11/11/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #89			

15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 11/10/2022

Distribution Page

Report Number: J5211361.0149G
Service Date: 09/14/22
Report Date: 11/11/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0149J
Service Date: 09/14/22
Report Date: 11/28/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 09/14/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #90

Laboratory Test Data

Test Procedure: ASTM D1557
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

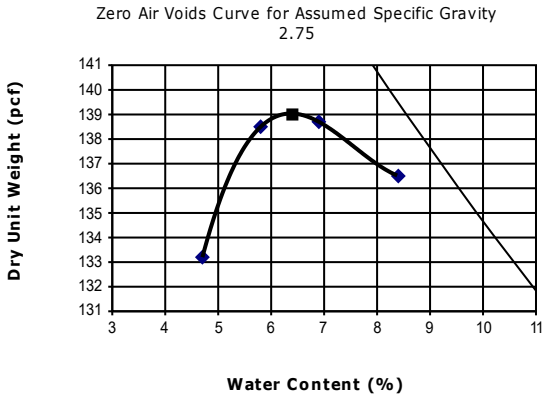
USCS:

Oversized Particles (%): 14.6
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **139.0**
Optimum Water Content (%): **6.4**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.3**
Optimum Water Content (%): **7.4**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0149J
Service Date: 09/14/22
Report Date: 11/28/22
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

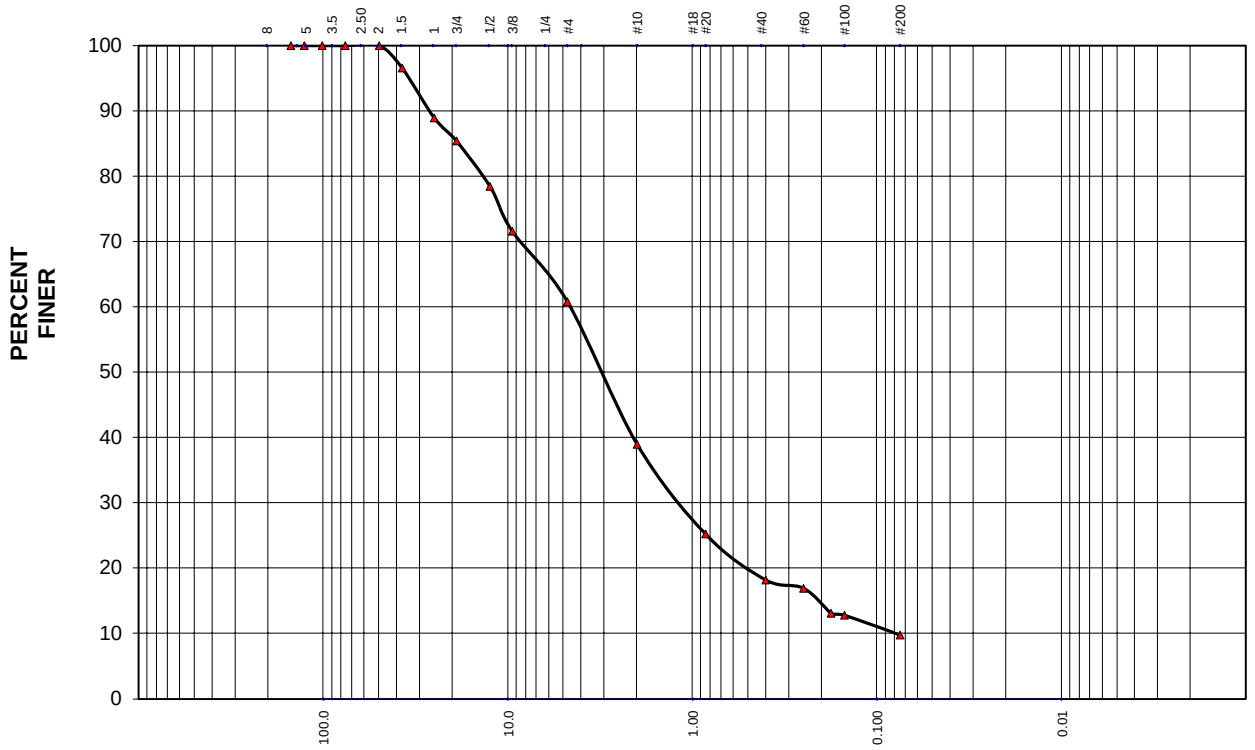
(1) Geosyntec Consultants, Paul Botek

(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	
		42.7	27.0	30.2	Silt (>0.002mm)	Clay (<0.002mm)
0.0	39.2		% Sand	51.0	9.8	

Classification: Imported - PENNDOT Approved Material

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"	815.00	97			
25.0	1"	2640.00	89			
19.0	3/4"	3480.00	85			
12.5	1/2"	5125.00	78			
9.5	3/8"	6755.00	72			
4.75	#4	9320.00	61			
2.00	#10	209.41	39			
0.850	#20	341.85	25			
0.400	#40	409.65	18			
0.250	#60	421.33	17			
0.177	#80	458.04	13			
0.150	#100	461.22	13			
0.075	#200	490.05	10			

Total Dry Wt. 23765 g
Split Wt. 584.32 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**11/22/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #90			

Terracon
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 11/21/2022

Distribution Page

Report Number: J5211361.0149I
Service Date: 09/14/22
Report Date: 11/28/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0149P
Service Date: 09/14/22
Report Date: 12/13/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 09/14/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material #93

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

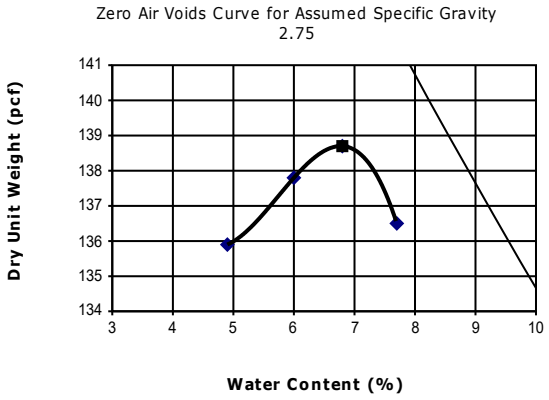
USCS:

Oversized Particles (%): 20.7
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.7**
Optimum Water Content (%): **6.8**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.1**
Optimum Water Content (%): **8.4**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0149P
Service Date: 09/14/22
Report Date: 12/13/22
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

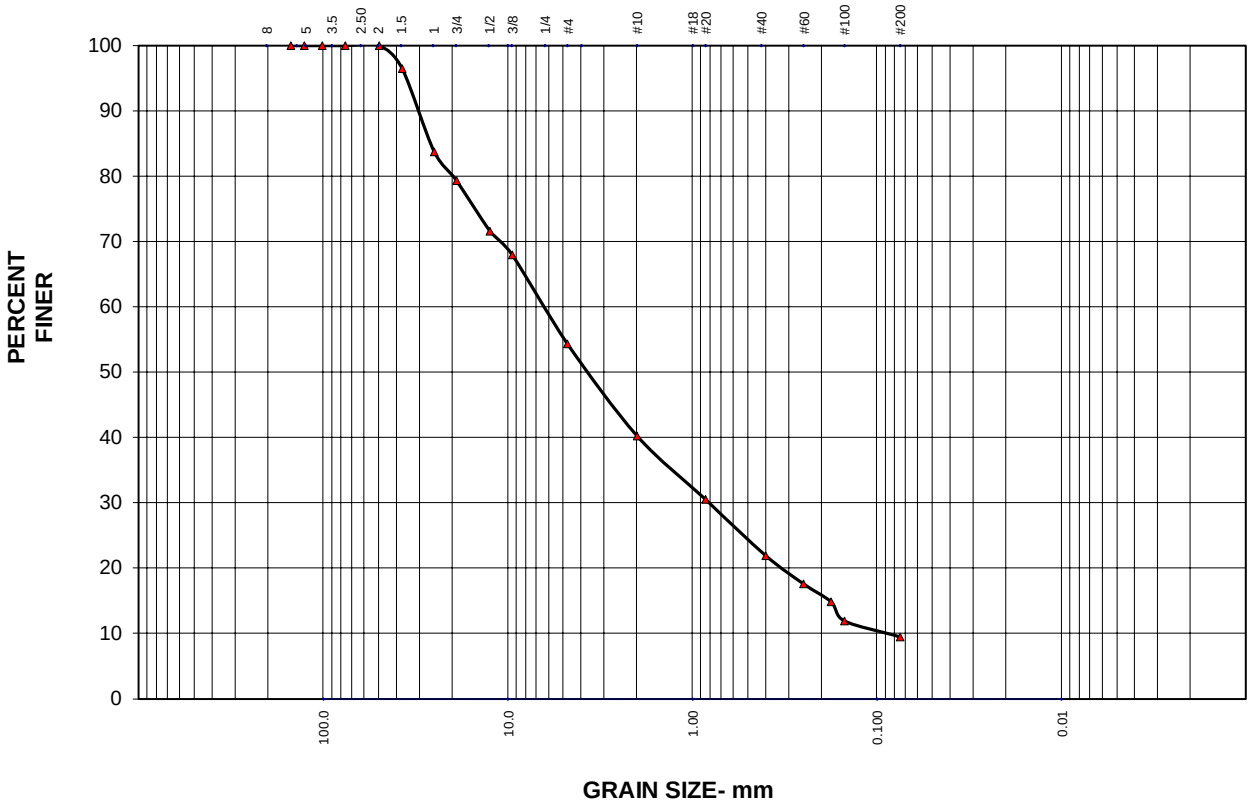
(1) Geosyntec Consultants, Paul Botek

(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	
		31.5	21.7	46.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	45.6		% Sand	44.9	9.5	

Classification: Imported - PENNDOT Approved Material

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"	680.00	96			
25.0	1"	3125.00	84			
19.0	3/4"	3985.00	79			
12.5	1/2"	5460.00	72			
9.5	3/8"	6170.00	68			
4.75	#4	8775.00	54			
2.00	#10	142.09	40			
0.850	#20	240.12	30			
0.400	#40	326.68	22			
0.250	#60	370.09	18			
0.177	#80	397.82	15			
0.150	#100	426.79	12			
0.075	#200	451.18	10			

Total Dry Wt. 19235 g
Split Wt. 546.79 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**12/13/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #93			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 12/12/2022

Distribution Page

Report Number: J5211361.0149O
Service Date: 09/14/22
Report Date: 12/13/22
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0149R
Service Date: 09/14/22
Report Date: 12/30/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date:
Sampled By:
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #94

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

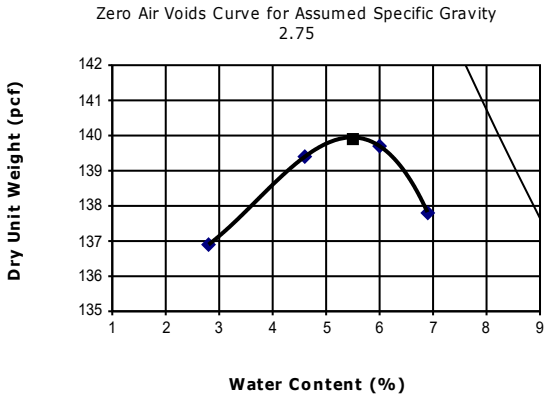
USCS:

Oversized Particles (%): 20.6
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): 139.9
Optimum Water Content (%): 5.5

Uncorrected Values
Maximum Dry Unit Weight (pcf): 134.6
Optimum Water Content (%): 6.8



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0149R
Service Date: 09/14/22
Report Date: 12/30/22
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

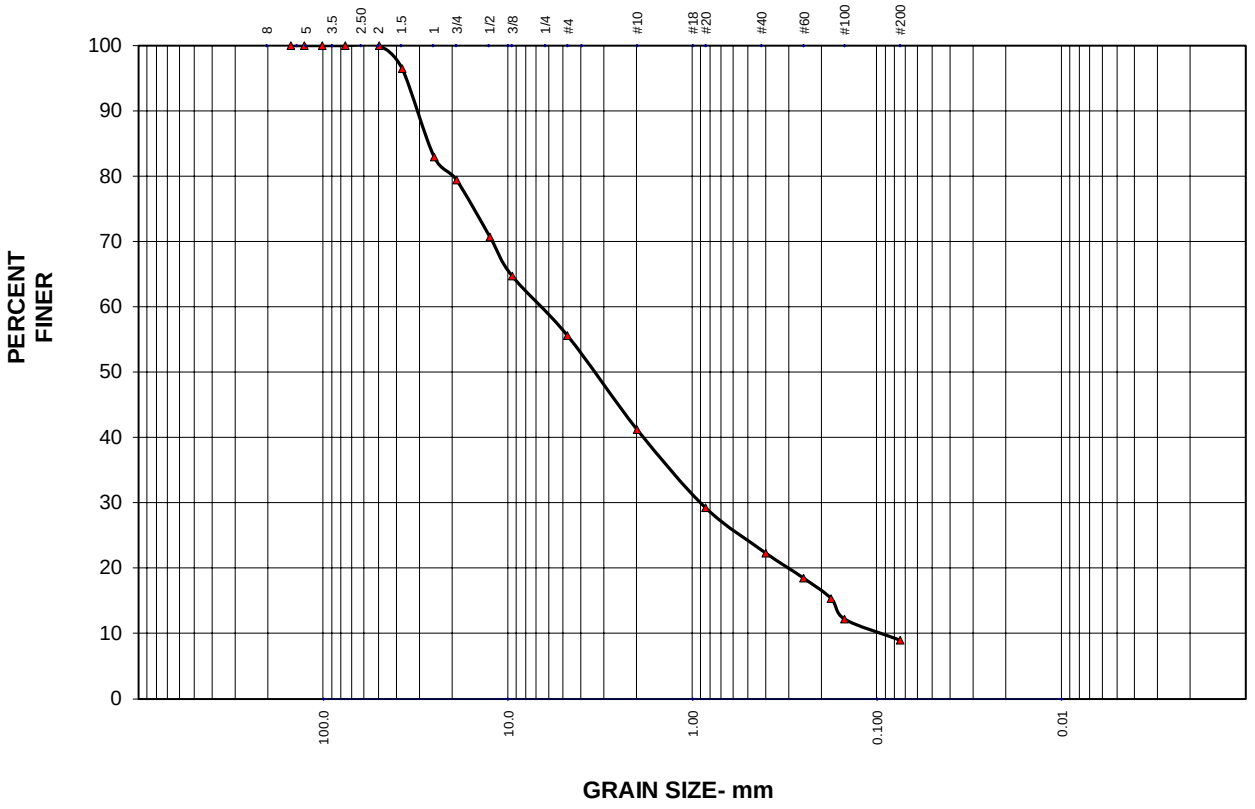
(1) Geosyntec Consultants, Paul Botek

(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	
		30.8	25.7	43.5	Silt (>0.002mm)	Clay (<0.002mm)
0.0	44.4		% Sand	46.6	9.0	

Classification: Imported - PENNDOT Approved Material

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"	680.00	96			
25.0	1"	3250.00	83			
19.0	3/4"	3915.00	79			
12.5	1/2"	5560.00	71			
9.5	3/8"	6710.00	65			
4.75	#4	8435.00	56			
2.00	#10	141.28	41			
0.850	#20	259.08	29			
0.400	#40	327.18	22			
0.250	#60	364.93	18			
0.177	#80	395.74	15			
0.150	#100	426.47	12			
0.075	#200	458.30	9			

Total Dry Wt. 19005 g
Split Wt. 546.8 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**12/30/2022**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #94			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 12/23/2022

Distribution Page

Report Number: J5211361.0149Q
Service Date: 09/14/22
Report Date: 12/30/22
Task:

15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
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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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0149T
Service Date: 09/14/22
Report Date: 01/10/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date:
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #95

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

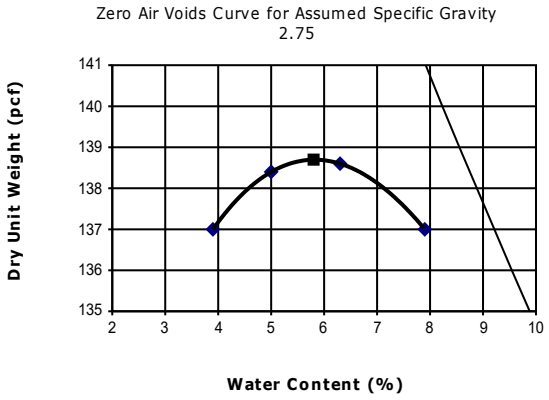
USCS:

Oversized Particles (%): 18.6
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.7**
Optimum Water Content (%): **5.8**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.8**
Optimum Water Content (%): **7.1**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0149T
Service Date: 09/14/22
Report Date: 01/10/23
Task:

15 Marway Cir, Ste 2B
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Distribution List

(1) Geosyntec Consultants, Miranda Stelmach

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(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

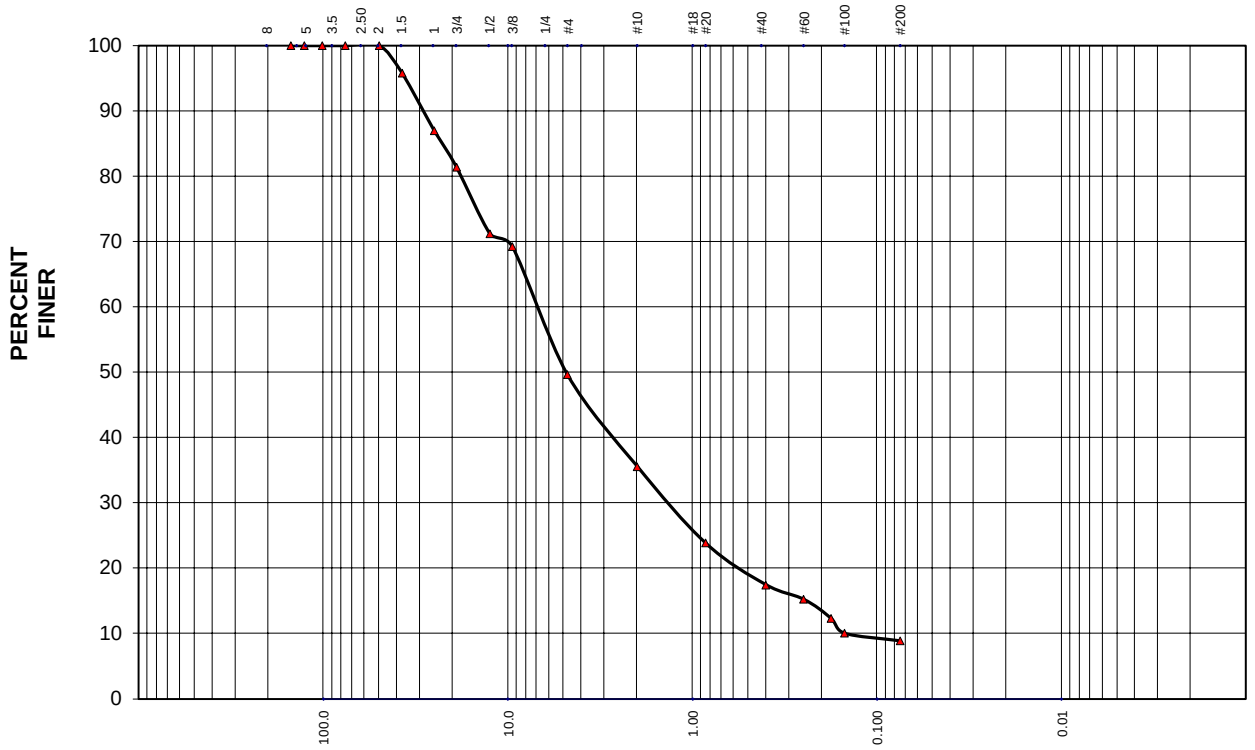
(1) Geosyntec Consultants, Paul Botek

(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	
		34.5	28.7	36.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	50.3		% Sand	40.8	8.9	

Classification: Imported - PENNDOT Approved Material

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"	905.00	96			
25.0	1"	2760.00	87			
19.0	3/4"	3955.00	81			
12.5	1/2"	6110.00	71			
9.5	3/8"	6525.00	69			
4.75	#4	10685.00	50			
2.00	#10	169.47	36			
0.850	#20	310.38	24			
0.400	#40	387.62	17			
0.250	#60	413.90	15			
0.177	#80	449.37	12			
0.150	#100	476.22	10			
0.075	#200	491.05	9			

Total Dry Wt. 21225 g
Split Wt. 597.65 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**1/9/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #95			

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Remarks:

Tested By: K. Lemcke Date: 1/5/2023

Distribution Page

Report Number: J5211361.0149S
Service Date: 09/14/22
Report Date: 01/10/23
Task:

15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
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Distribution List

(1) Geosyntec Consultants, Miranda Stelmach

(1) Geosyntec Consultants, Aron Krasnopoler

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(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0149V
Service Date: 09/14/22
Report Date: 02/09/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 09/14/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

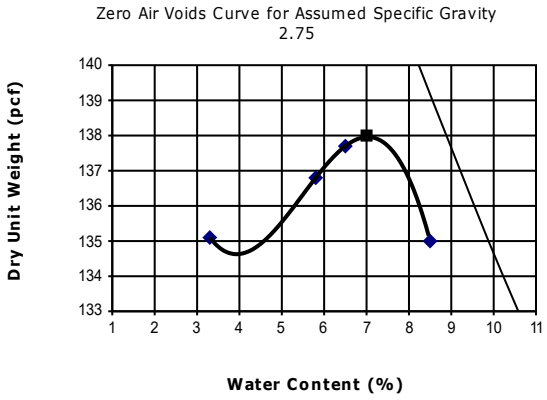
USCS:

Oversized Particles (%): 13.8
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.0**
Optimum Water Content (%): **7.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.4**
Optimum Water Content (%): **8.1**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0149V
Service Date: 09/14/22
Report Date: 02/09/23
Task:

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Distribution List

(1) Geosyntec Consultants, Miranda Stelmach

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(1) Geosyntec Consultants, Colin Lamas

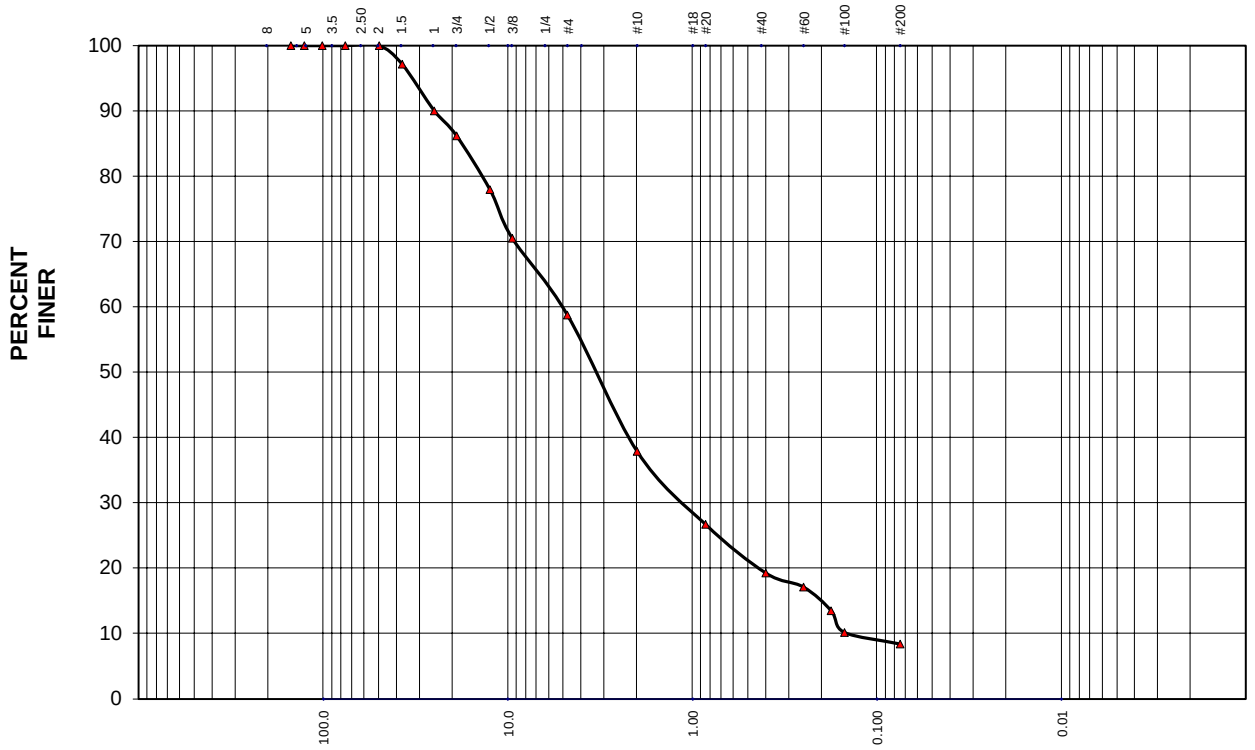
(1) Geosyntec Consultants, Paul Botek

(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	
		41.5	22.3	36.3	Silt (>0.002mm)	Clay (<0.002mm)
0.0	41.2		% Sand	50.4	8.4	

Classification: Imported - PENNDOT Approved Material

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"	605.00	97			
25.0	1"	2140.00	90			
19.0	3/4"	2960.00	86			
12.5	1/2"	4735.00	78			
9.5	3/8"	6325.00	71			
4.75	#4	8845.00	59			
2.00	#10	214.54	38			
0.850	#20	329.64	27			
0.400	#40	405.96	19			
0.250	#60	427.94	17			
0.177	#80	465.04	13			
0.150	#100	499.10	10			
0.075	#200	517.13	8			

Total Dry Wt. 21450 g
Split Wt. 603.52 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**2/6/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #96			

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Remarks:

Tested By: K. Lemcke Date: 2/1/2023

Distribution Page

Report Number: J5211361.0149U
Service Date: 09/14/22
Report Date: 02/09/23
Task:

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Distribution List

(1) Geosyntec Consultants, Miranda Stelmach

(1) Geosyntec Consultants, Aron Krasnopoler

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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0149X
Service Date: 09/14/22
Report Date: 02/09/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 09/14/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #97

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

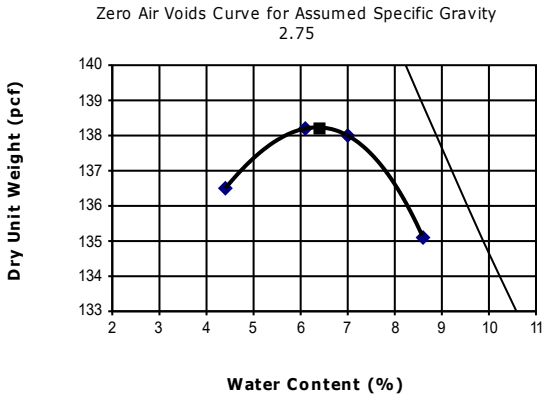
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 18.1
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.2**
Optimum Water Content (%): **6.4**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.3**
Optimum Water Content (%): **7.6**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0149X
Service Date: 09/14/22
Report Date: 02/09/23
Task:

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Distribution List

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(1) Geosyntec Consultants, Brian Harris

(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

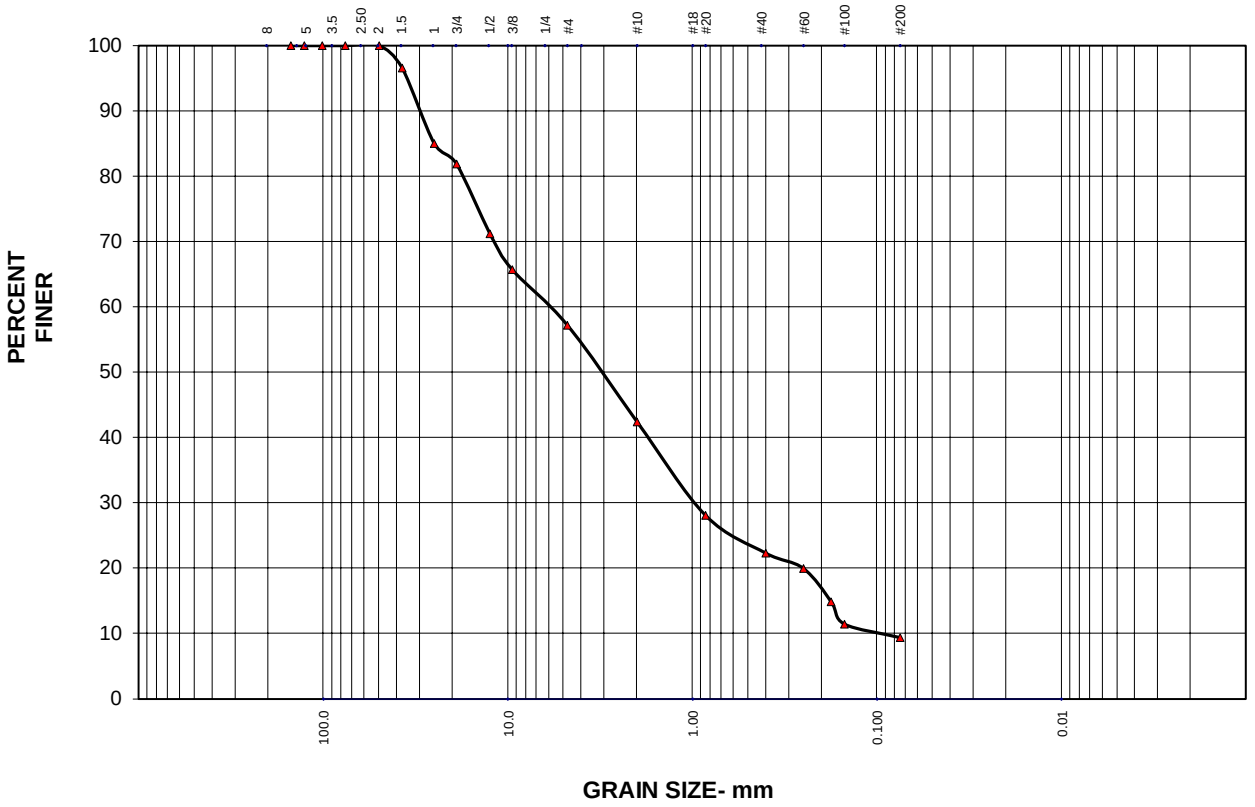
(1) Geosyntec Consultants, Paul Botek

(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	
		30.9	30.0	39.1	Silt (>0.002mm)	Clay (<0.002mm)
0.0	42.8		% Sand	47.8	9.4	

Classification: Imported - PENNDOT Approved Material

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"	710.00	97			
25.0	1"	3060.00	85			
19.0	3/4"	3710.00	82			
12.5	1/2"	5890.00	71			
9.5	3/8"	7015.00	66			
4.75	#4	8755.00	57			
2.00	#10	145.02	42			
0.850	#20	285.73	28			
0.400	#40	342.69	22			
0.250	#60	365.47	20			
0.177	#80	415.18	15			
0.150	#100	448.95	11			
0.075	#200	469.10	9			

Total Dry Wt. 20455 g
Split Wt. 561.27 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**2/6/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #97			

Terracon
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 2/1/2023

Distribution Page

Report Number: J5211361.0149W
Service Date: 09/14/22
Report Date: 02/09/23
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0149Z
Service Date: 09/14/22
Report Date: 02/27/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 09/14/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawreceville Quarry

Sample Description: PENNDOT Approved Material Sample #98

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

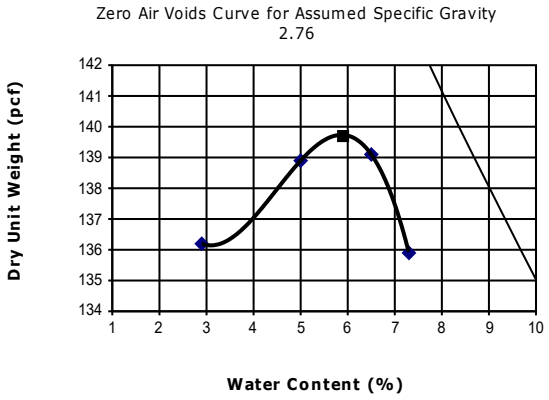
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 20.2
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **139.7**
Optimum Water Content (%): **5.9**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.4**
Optimum Water Content (%): **7.2**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0149Z
Service Date: 09/14/22
Report Date: 02/27/23
Task:

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

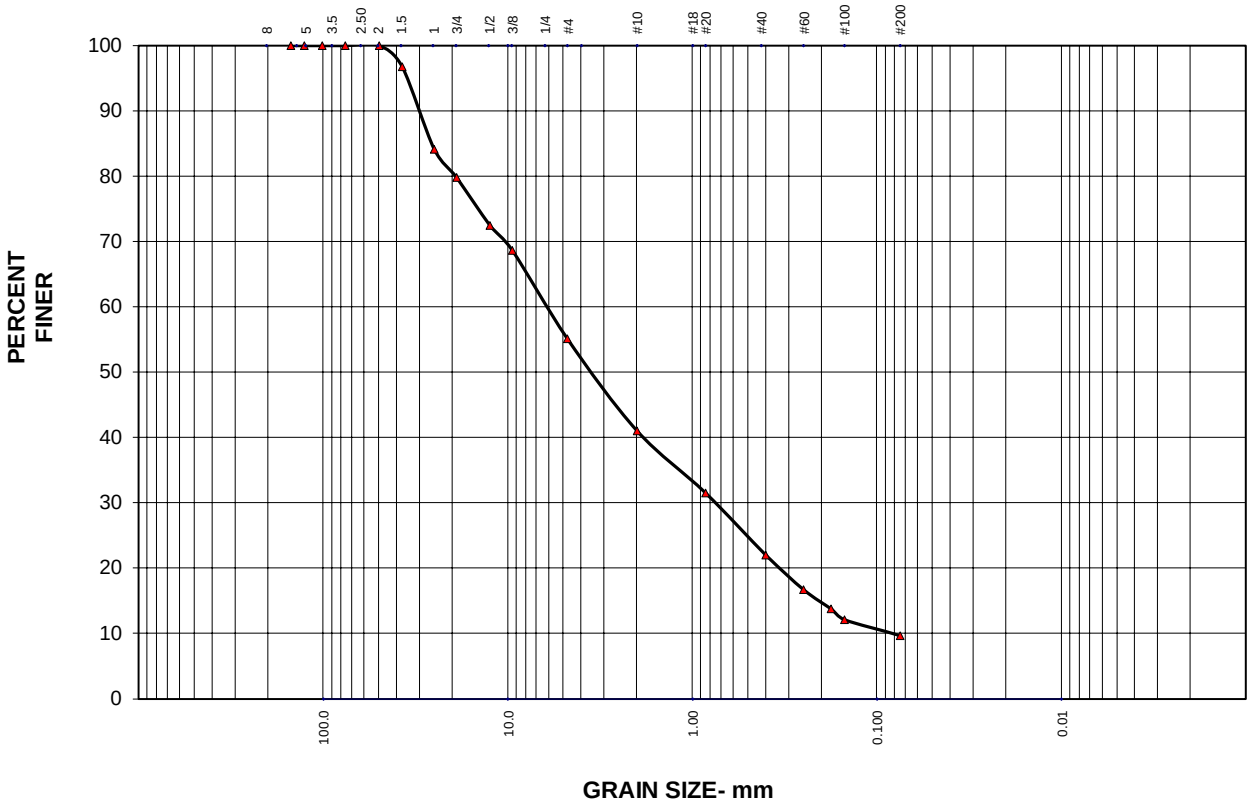
(1) Geosyntec Consultants, Paul Botek

(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	
		31.0	20.8	48.2	Silt (>0.002mm)	Clay (<0.002mm)
0.0	44.9		% Sand	45.4	9.7	

Classification: Imported - PENNDOT Approved Material

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"	595.00	97			
25.0	1"	2940.00	84			
19.0	3/4"	3750.00	80			
12.5	1/2"	5120.00	72			
9.5	3/8"	5815.00	69			
4.75	#4	8340.00	55			
2.00	#10	130.05	41			
0.850	#20	217.42	32			
0.400	#40	305.68	22			
0.250	#60	354.72	17			
0.177	#80	382.09	14			
0.150	#100	397.15	12			
0.075	#200	419.51	10			

Total Dry Wt. 18565 g
Split Wt. 509.12 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**2/20/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #98			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 2/15/2023

Distribution Page

Report Number: J5211361.0149Y
Service Date: 09/14/22
Report Date: 02/28/23
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0162B
Service Date: 10/04/22
Report Date: 12/13/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 09/20/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #99

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

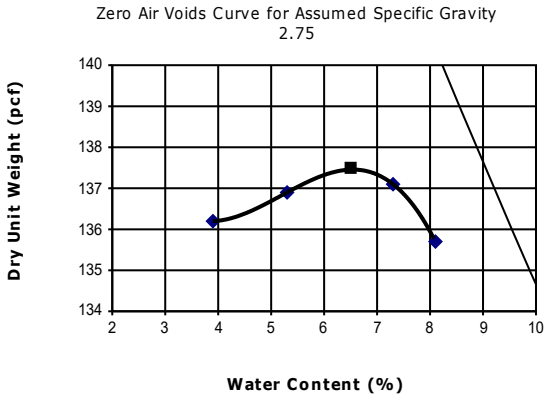
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 17.1
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **137.5**
Optimum Water Content (%): **6.5**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **132.8**
Optimum Water Content (%): **7.8**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0162B
Service Date: 10/04/22
Report Date: 12/13/22
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

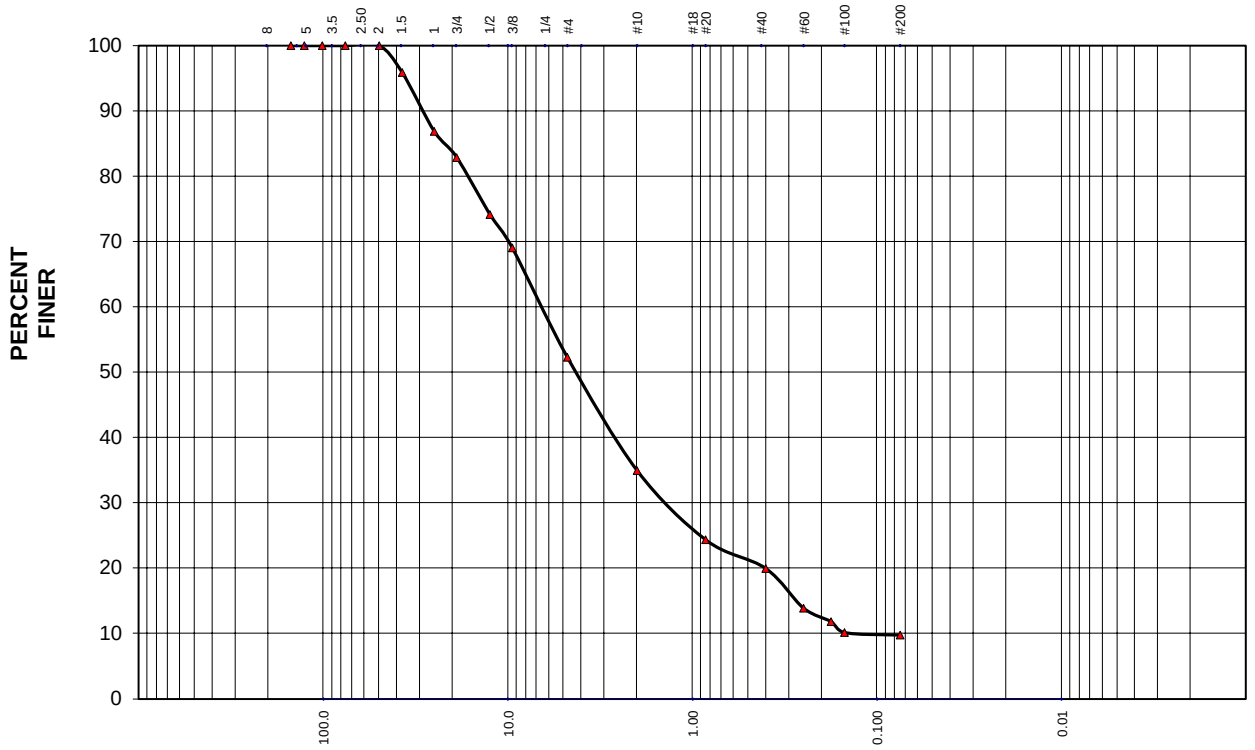
(1) Geosyntec Consultants, Paul Botek

(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	
		40.6	24.9	34.4	Silt (>0.002mm)	Clay (<0.002mm)
0.0	47.7		% Sand	42.5	9.7	

Classification: Imported - PENNDOT Approved Material

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"	835.00	96			
25.0	1"	2685.00	87			
19.0	3/4"	3490.00	83			
12.5	1/2"	5275.00	74			
9.5	3/8"	6310.00	69			
4.75	#4	9740.00	52			
2.00	#10	192.34	35			
0.850	#20	310.42	24			
0.400	#40	359.84	20			
0.250	#60	426.71	14			
0.177	#80	450.19	12			
0.150	#100	468.62	10			
0.075	#200	473.35	10			

Total Dry Wt. 20405 g
Split Wt. 581.52 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**2/27/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #99			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 2/20/2023

Distribution Page

Report Number: J5211361.0162A
Service Date: 10/04/22
Report Date: 02/28/23
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0162D
Service Date: 10/04/22
Report Date: 11/28/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 10/04/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #100

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

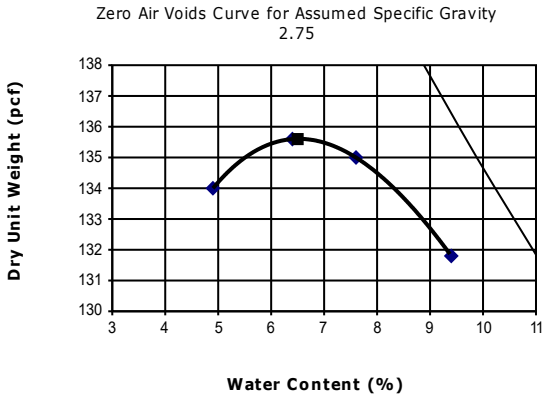
USCS:

Oversized Particles (%): 12.3
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **135.6**
Optimum Water Content (%): **6.5**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **132.3**
Optimum Water Content (%): **7.3**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0162D
Service Date: 10/04/22
Report Date: 11/28/22
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

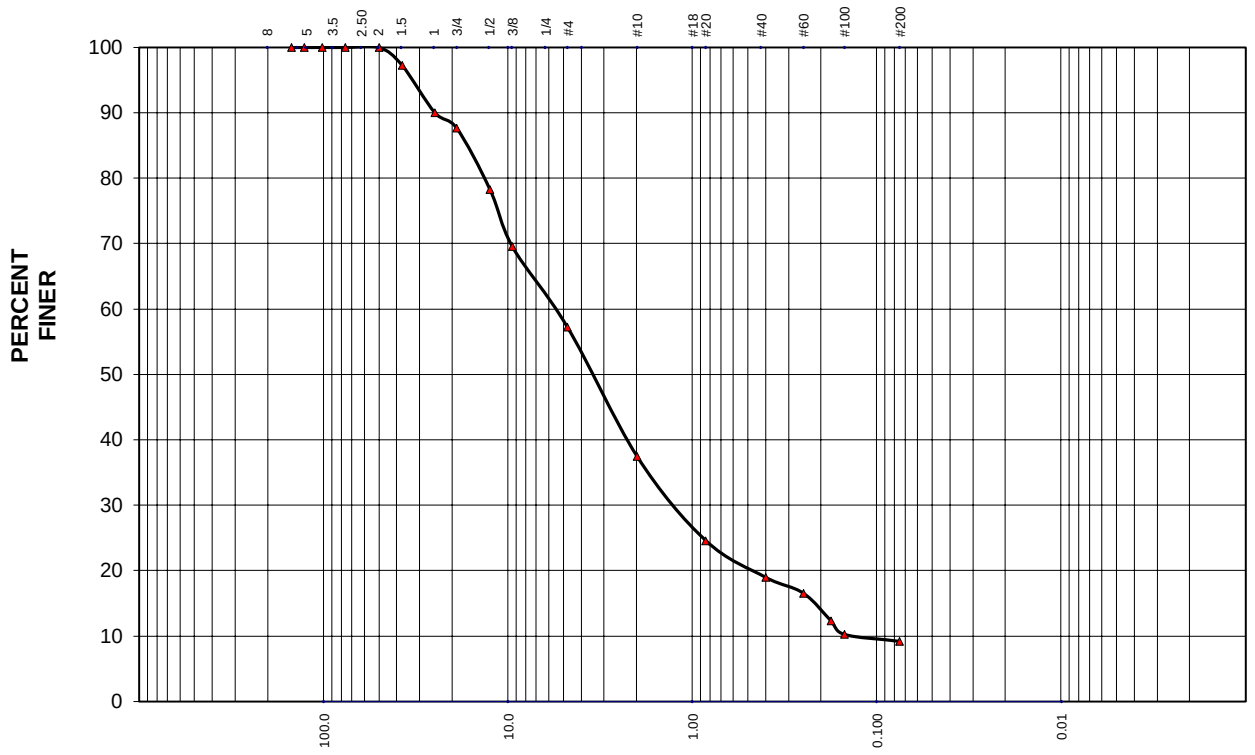
(1) Geosyntec Consultants, Paul Botek

(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	
		41.2	26.8	32.0	Silt (>0.002mm)	Clay (<0.002mm)
0.0	42.7		% Sand	48.0	9.3	

Classification: Imported - PENNDOT Approved Material

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"	570.00	97			
25.0	1"	2080.00	90			
19.0	3/4"	2560.00	88			
12.5	1/2"	4525.00	78			
9.5	3/8"	6345.00	70			
4.75	#4	8915.00	57			
2.00	#10	212.05	37			
0.850	#20	349.65	25			
0.400	#40	409.89	19			
0.250	#60	435.76	17			
0.177	#80	481.23	12			
0.150	#100	503.50	10			
0.075	#200	514.21	9			

Total Dry Wt. 20875 g
Split Wt. 613.48 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/7/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #100			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/2/2023

Distribution Page

Report Number: J5211361.0162C
Service Date: 10/04/22
Report Date: 03/09/23
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0162F
Service Date: 10/04/22
Report Date: 03/09/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 10/04/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #101

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

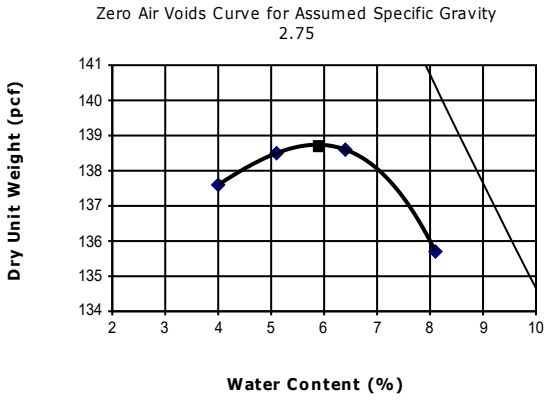
USCS:

Oversized Particles (%): 18.2
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.7**
Optimum Water Content (%): **5.9**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.0**
Optimum Water Content (%): **7.0**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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Distribution Page

Report Number: J5211361.0162F
Service Date: 10/04/22
Report Date: 03/09/23
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

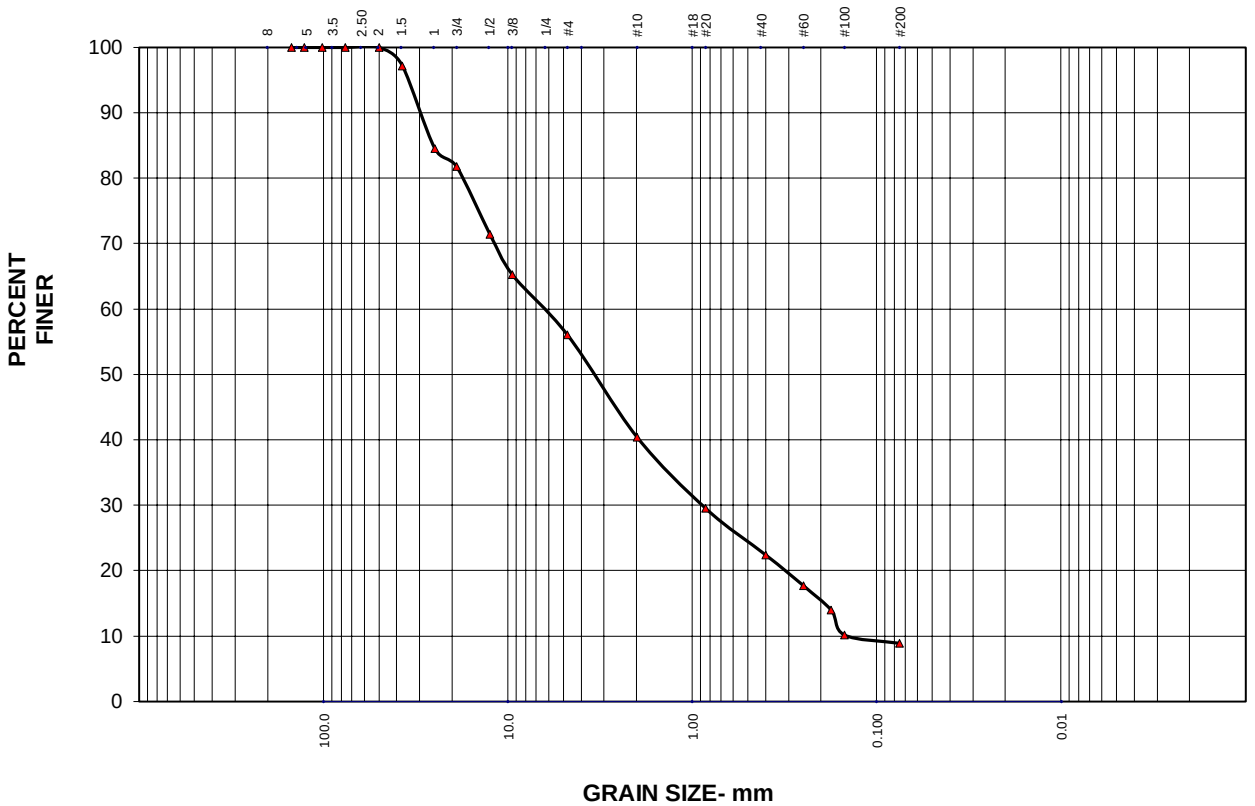
(1) Geosyntec Consultants, Paul Botek

(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	
		33.2	23.1	43.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	43.9		% Sand	47.2	8.9	

Classification: Imported - PENNDOT Approved Material

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"	495.00	97			
25.0	1"	2755.00	85			
19.0	3/4"	3250.00	82			
12.5	1/2"	5105.00	71			
9.5	3/8"	6190.00	65			
4.75	#4	7840.00	56			
2.00	#10	149.61	40			
0.850	#20	253.78	30			
0.400	#40	322.19	22			
0.250	#60	367.24	18			
0.177	#80	401.99	14			
0.150	#100	438.84	10			
0.075	#200	451.23	9			

Total Dry Wt. 17855 g
Split Wt. 536.57 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/7/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #101			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/3/2023

Distribution Page

Report Number: J5211361.0162E
Service Date: 10/04/22
Report Date: 03/09/23
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, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0165B
Service Date: 10/05/22
Report Date: 03/21/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 10/05/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #102

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

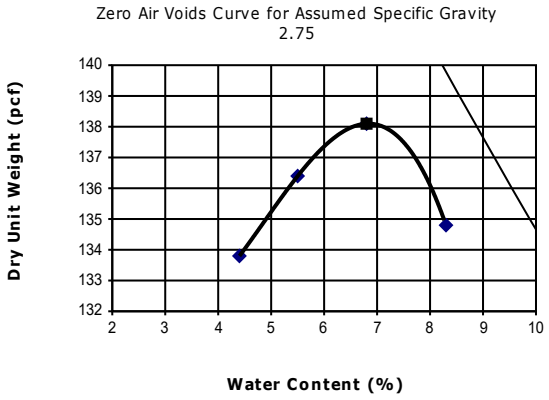
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 18.8
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.1**
Optimum Water Content (%): **6.8**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.0**
Optimum Water Content (%): **8.2**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0165B
Service Date: 10/05/22
Report Date: 03/21/23
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

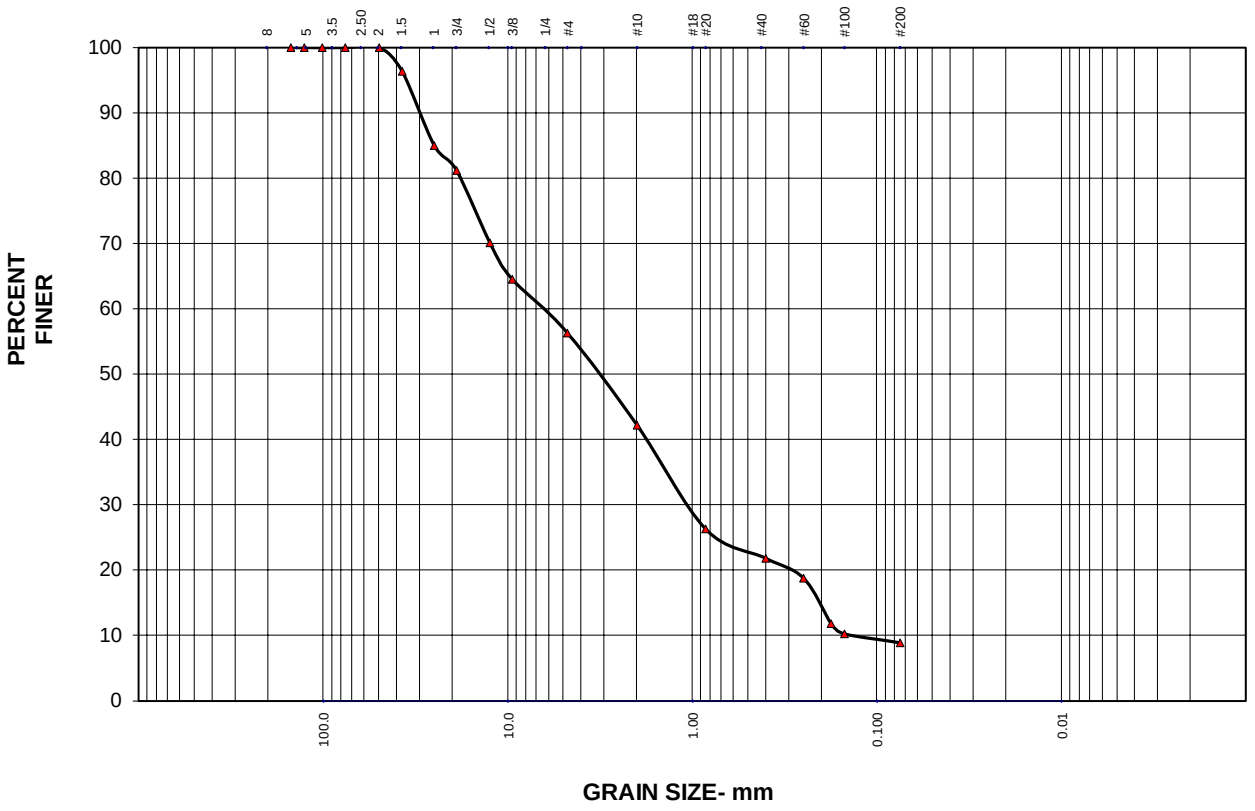
(1) Geosyntec Consultants, Paul Botek

(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	
		29.8	33.4	36.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	43.7		% Sand	47.5	8.9	

Classification: Imported - PENNDOT Approved Material

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"	765.00	96			
25.0	1"	3125.00	85			
19.0	3/4"	3920.00	81			
12.5	1/2"	6240.00	70			
9.5	3/8"	7395.00	65			
4.75	#4	9105.00	56			
2.00	#10	136.41	42			
0.850	#20	289.05	26			
0.400	#40	332.64	22			
0.250	#60	361.19	19			
0.177	#80	428.33	12			
0.150	#100	443.61	10			
0.075	#200	457.08	9			

Total Dry Wt. 20855 g
Split Wt. 542.37 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/21/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #102			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/15/2023

Distribution Page

Report Number: J5211361.0165A
Service Date: 10/05/22
Report Date: 03/21/23
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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0165D
Service Date: 10/05/22
Report Date: 03/21/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 10/05/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #103

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

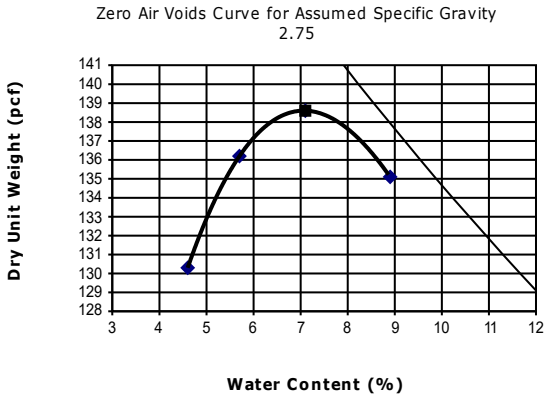
USCS:

Oversized Particles (%): 16.0
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.6**
Optimum Water Content (%): **7.1**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.4**
Optimum Water Content (%): **8.3**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0165D
Service Date: 10/05/22
Report Date: 03/21/23
Task:

15 Marway Cir, Ste 2B
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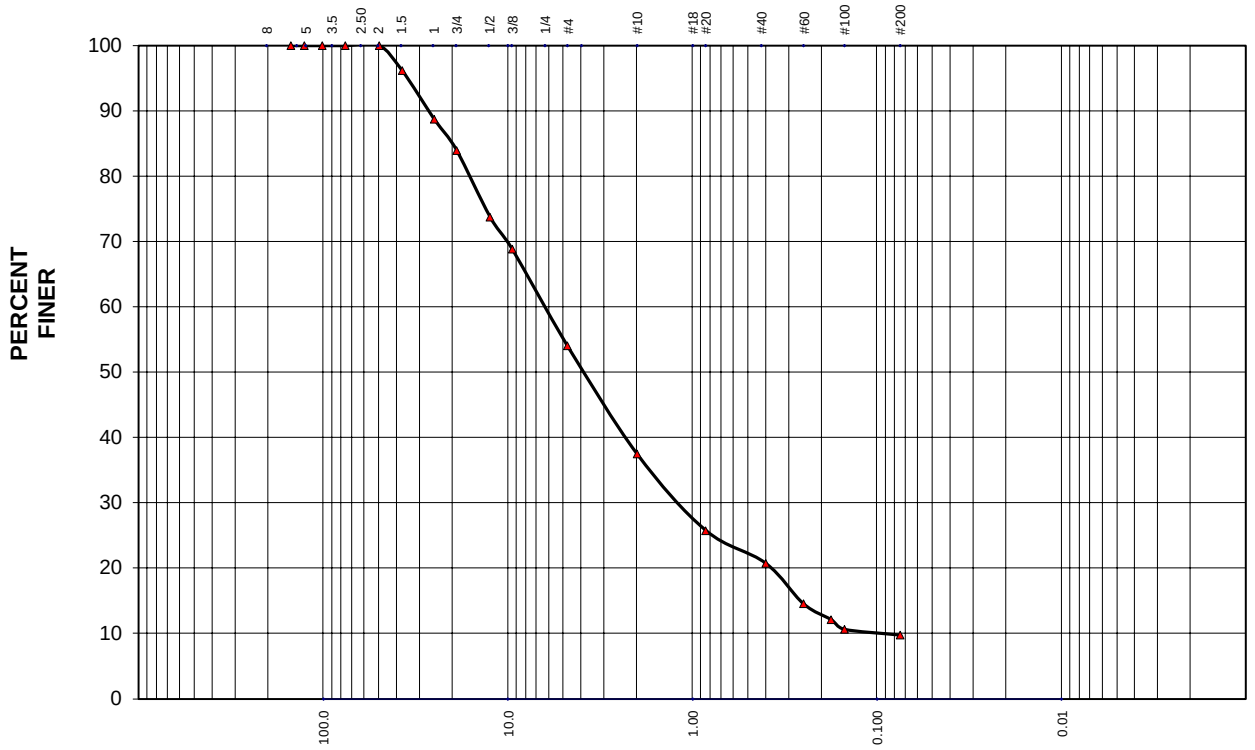
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GRAIN SIZE DISTRIBUTION TEST REPORT
ASTM TEST METHODS: C136, C117, D2487



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		37.4	26.4	36.2	Silt (>0.002mm)	Clay (<0.002mm)
0.0	45.9		% Sand	44.3	9.8	

Classification: Imported - PENNDOT Approved Material

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"	760.00	96			
25.0	1"	2240.00	89			
19.0	3/4"	3185.00	84			
12.5	1/2"	5210.00	74			
9.5	3/8"	6195.00	69			
4.75	#4	9130.00	54			
2.00	#10	175.63	37			
0.850	#20	299.45	26			
0.400	#40	352.37	21			
0.250	#60	418.66	15			
0.177	#80	443.75	12			
0.150	#100	459.91	11			
0.075	#200	469.03	10			

Total Dry Wt. 19875 g
Split Wt. 572.38 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/21/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #103			

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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/14/2023

Distribution Page

Report Number: J5211361.0165C
Service Date: 10/05/22
Report Date: 03/21/23
Task:

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(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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0165F
Service Date: 10/05/22
Report Date: 12/13/22

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 10/05/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #104

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

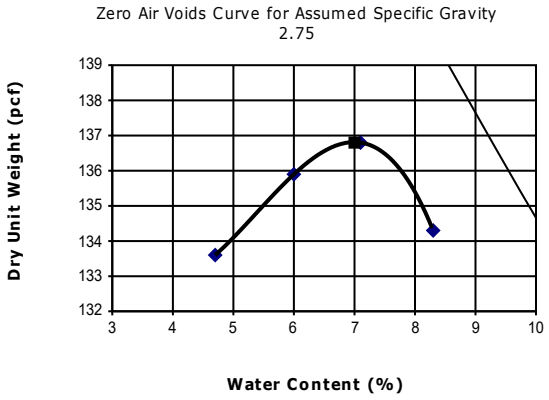
USCS:

Oversized Particles (%): 14.2
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **136.8**
Optimum Water Content (%): **7.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.0**
Optimum Water Content (%): **8.1**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0165F
Service Date: 10/05/22
Report Date: 12/13/22
Task:

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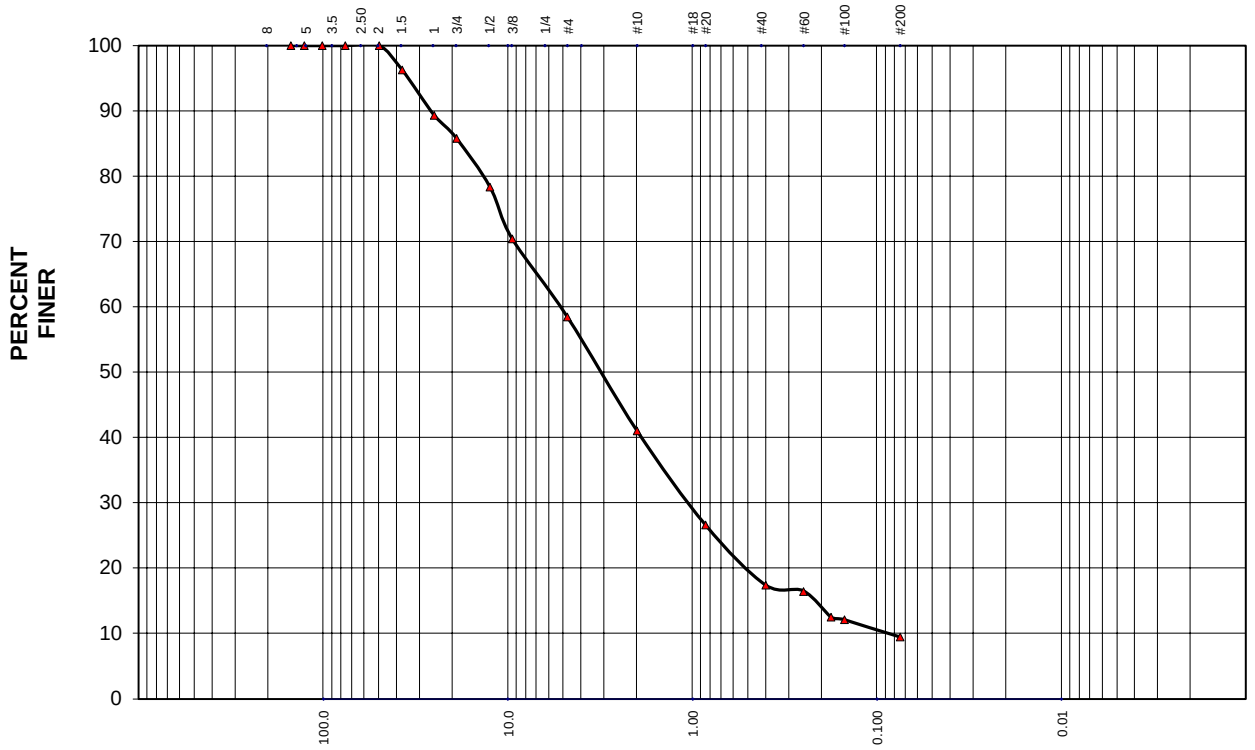
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(1) Geosyntec Consultants, Tom Ramsey

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



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		35.7	29.4	34.9	Silt (>0.002mm)	Clay (<0.002mm)
0.0	41.5		% Sand	49.0	9.5	

Classification: Imported - PENNDOT Approved Material

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"	785.00	96			
25.0	1"	2240.00	89			
19.0	3/4"	2995.00	86			
12.5	1/2"	4550.00	78			
9.5	3/8"	6220.00	70			
4.75	#4	8740.00	58			
2.00	#10	178.43	41			
0.850	#20	325.67	27			
0.400	#40	419.25	17			
0.250	#60	428.94	16			
0.177	#80	469.01	13			
0.150	#100	473.82	12			
0.075	#200	500.04	10			

Total Dry Wt. 21050 g
Split Wt. 597.14 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/21/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #104			

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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/15/2023

Distribution Page

Report Number: J5211361.0165E
Service Date: 10/05/22
Report Date: 03/21/23
Task:

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(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0165H
Service Date: 10/05/22
Report Date: 03/21/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 10/05/22
Sampled By: Pete Valenti
Sample Location: Imported from lawrenceville Quarry

Sample Description: PENNDOT Approved Material #105

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

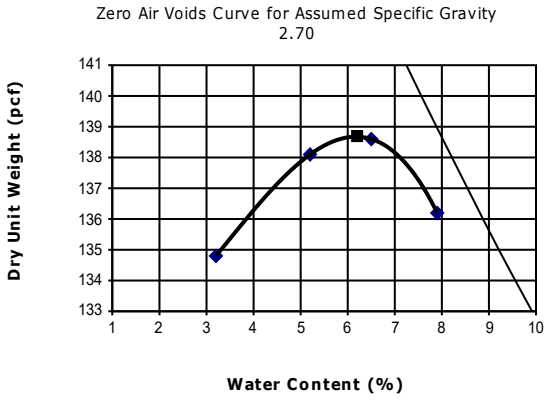
USCS:

Oversized Particles (%): 19.6
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.7**
Optimum Water Content (%): **6.2**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.4**
Optimum Water Content (%): **7.5**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0165H
Service Date: 10/05/22
Report Date: 03/21/23
Task:

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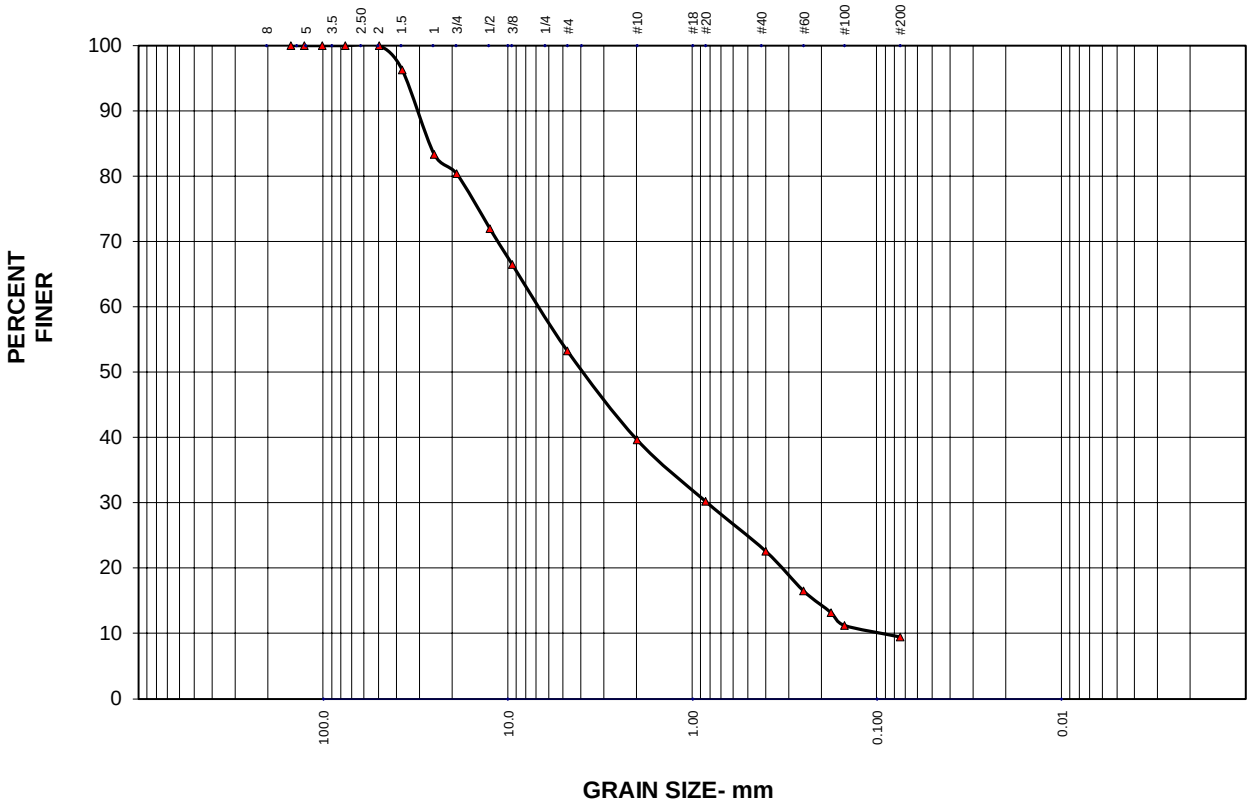
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(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

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



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		31.1	21.5	47.4	Silt (>0.002mm)	Clay (<0.002mm)
0.0	46.8		% Sand	43.8	9.5	

Classification: Imported - PENNDOT Approved Material

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"	725.00	96			
25.0	1"	3280.00	83			
19.0	3/4"	3855.00	80			
12.5	1/2"	5515.00	72			
9.5	3/8"	6590.00	67			
4.75	#4	9205.00	53			
2.00	#10	147.82	40			
0.850	#20	249.95	30			
0.400	#40	333.18	23			
0.250	#60	399.04	17			
0.177	#80	435.02	13			
0.150	#100	456.27	11			
0.075	#200	475.63	9			

Total Dry Wt. 19675 g
Split Wt. 578.41 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/21/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #105			

Terracon
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/15/2023

Distribution Page

Report Number: J5211361.0165G
Service Date: 10/05/22
Report Date: 03/21/23
Task:

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(1) Geosyntec Consultants, Colin Lamas

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(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

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(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0173B
Service Date: 10/29/22
Report Date: 03/24/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 10/29/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #106

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

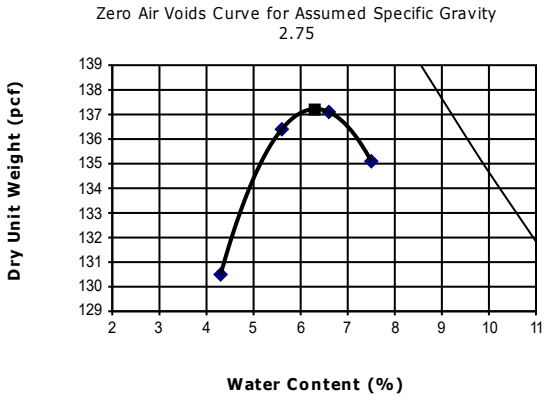
USCS:

Oversized Particles (%): 18.2
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **137.2**
Optimum Water Content (%): **6.3**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **132.3**
Optimum Water Content (%): **7.6**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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Distribution Page

Report Number: J5211361.0173B
Service Date: 10/29/22
Report Date: 03/24/23
Task:

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(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Kaitlin Thell Ouverson

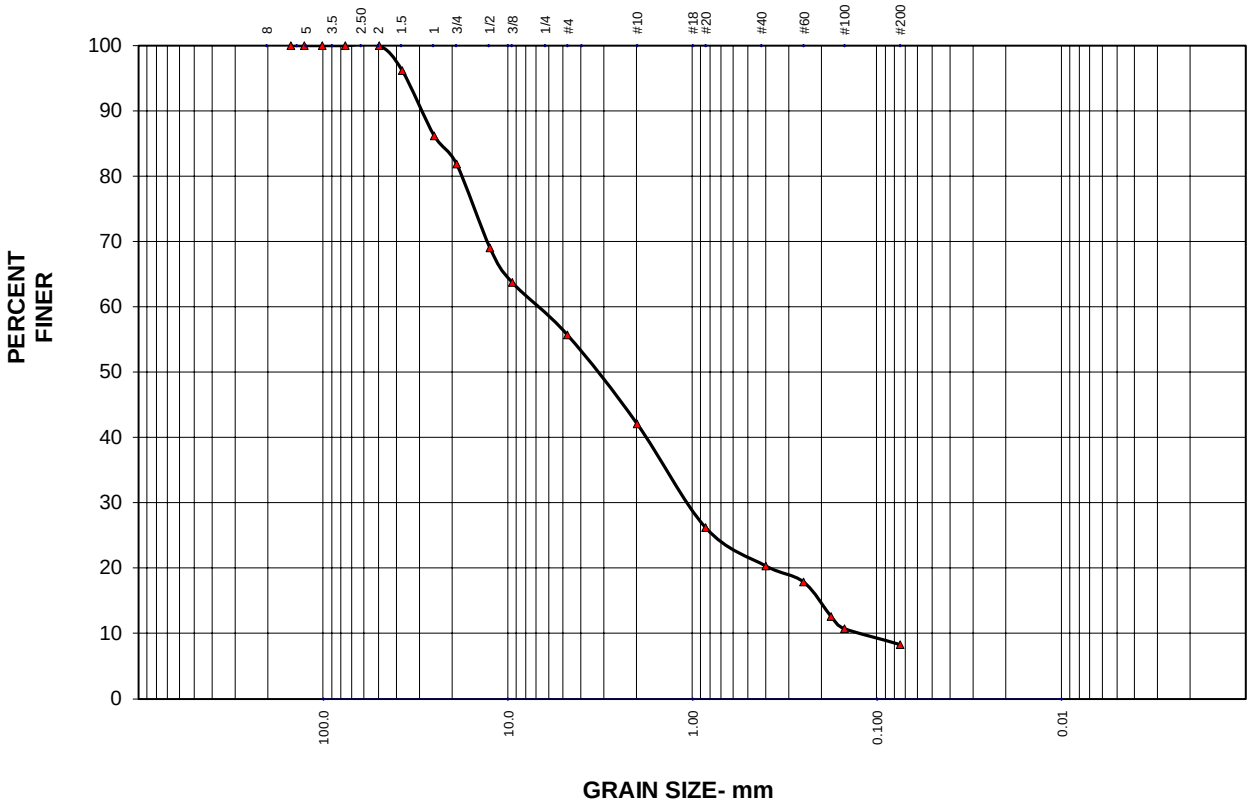
(1) Geosyntec Consultants, Paul Botek

(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	
		28.6	33.5	37.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	44.3		% Sand	47.4	8.3	

Classification: Imported - PENNDOT Approved Material

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"	805.00	96			
25.0	1"	2940.00	86			
19.0	3/4"	3860.00	82			
12.5	1/2"	6575.00	69			
9.5	3/8"	7705.00	64			
4.75	#4	9410.00	56			
2.00	#10	129.62	42			
0.850	#20	281.37	26			
0.400	#40	337.84	20			
0.250	#60	361.20	18			
0.177	#80	411.73	13			
0.150	#100	429.37	11			
0.075	#200	452.50	8			

Total Dry Wt. 21245 g
Split Wt. 532.09 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/23/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #106			

Terracon
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Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/17/2023

Distribution Page

Report Number: J5211361.0173A
Service Date: 10/29/22
Report Date: 03/24/23
Task:

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(1) Geosyntec Consultants, Miranda Stelmach

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(1) Geosyntec Consultants, Brian Harris

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(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

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(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0173D
Service Date: 10/29/22
Report Date: 03/24/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 10/29/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #107

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

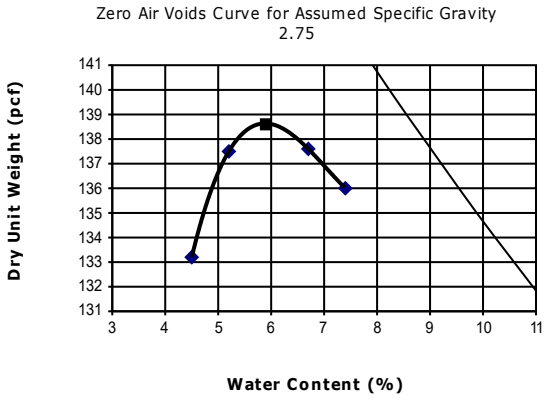
USCS:

Oversized Particles (%): 17.1
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.6**
Optimum Water Content (%): **5.9**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.1**
Optimum Water Content (%): **7.0**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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Distribution Page

Report Number: J5211361.0173D
Service Date: 10/29/22
Report Date: 03/24/23
Task:

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Rochester, NY 14624-2300
585-247-3471

Distribution List

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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Kaitlin Thell Ouverson

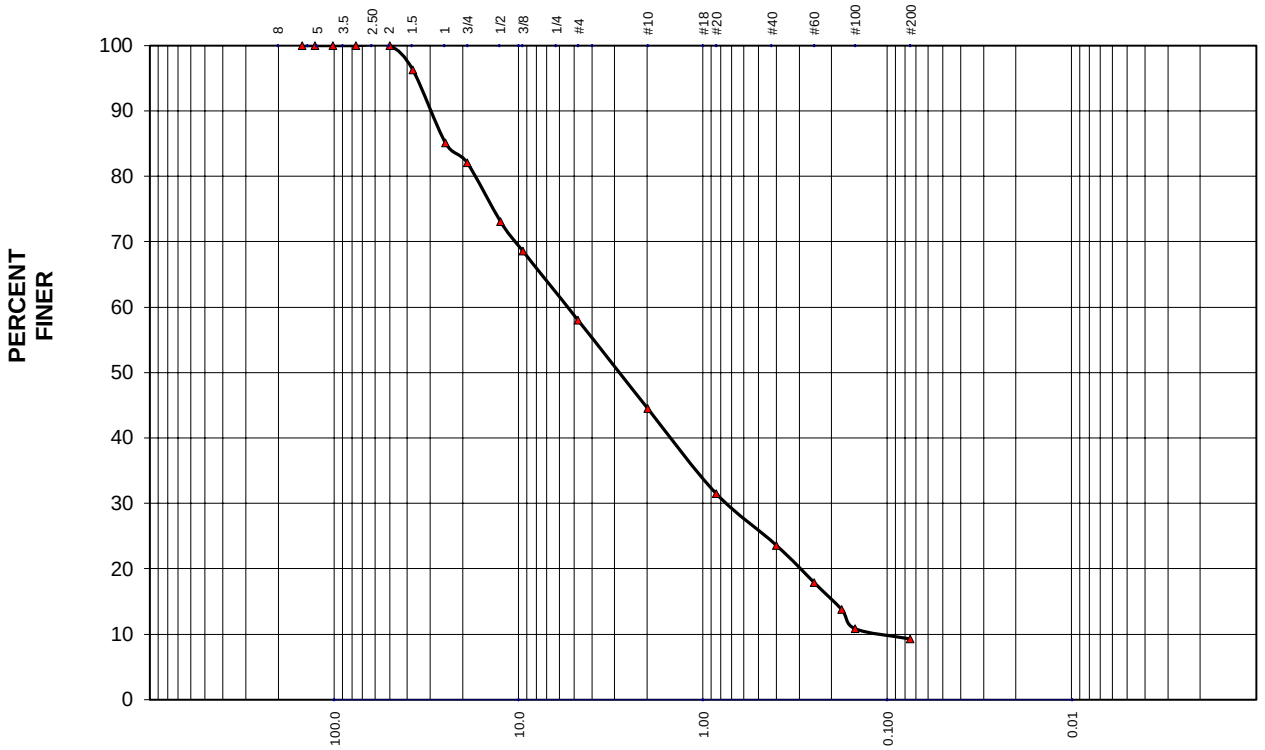
(1) Geosyntec Consultants, Paul Botek

(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	
		27.8	26.5	45.7	Silt (>0.002mm)	Clay (<0.002mm)
0.0	41.9	% Sand		48.8	9.3	

Classification: Imported - PENNDOT Approved Material

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"	745.00	96			
25.0	1"	2995.00	85			
19.0	3/4"	3610.00	82			
12.5	1/2"	5420.00	73			
9.5	3/8"	6330.00	69			
4.75	#4	8445.00	58			
2.00	#10	122.05	45			
0.850	#20	238.52	32			
0.400	#40	309.75	24			
0.250	#60	361.28	18			
0.177	#80	398.01	14			
0.150	#100	424.66	11			
0.075	#200	438.92	9			

Total Dry Wt. 20140 g
Split Wt. 522.52 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/23/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #107			

15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/17/2023

Distribution Page

Report Number: J5211361.0173C
Service Date: 10/29/22
Report Date: 03/24/23
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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0173F
Service Date: 10/29/22
Report Date: 03/24/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 09/29/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #108

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

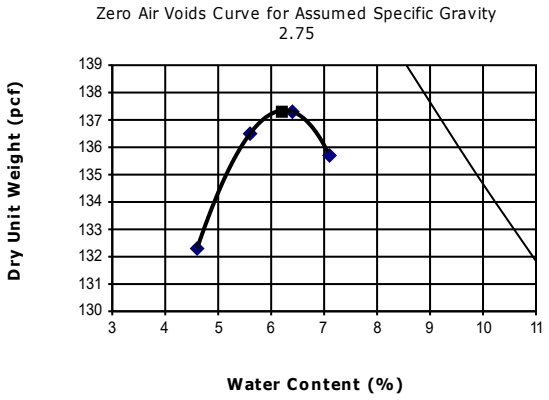
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 17.1
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **137.3**
Optimum Water Content (%): **6.2**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **132.6**
Optimum Water Content (%): **7.5**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0173F
Service Date: 10/29/22
Report Date: 03/24/23
Task:

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(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Kaitlin Thell Ouverson

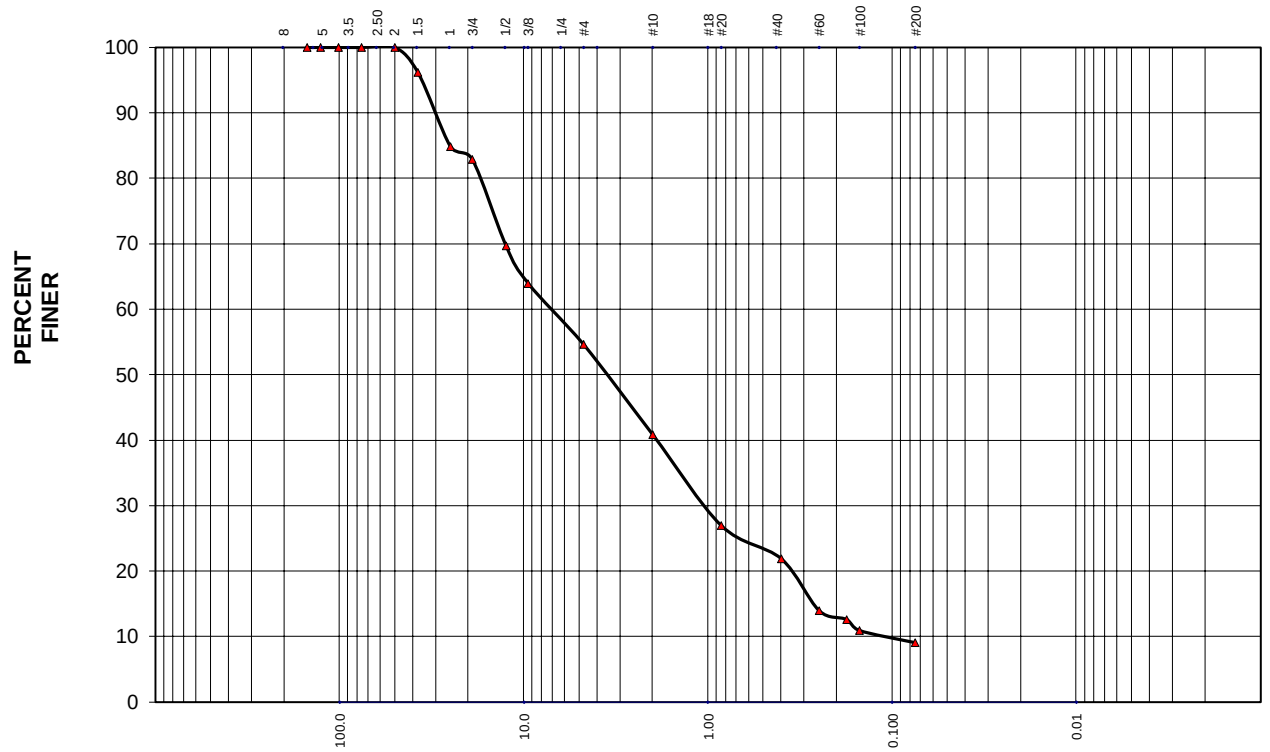
(1) Geosyntec Consultants, Paul Botek

(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	
		30.2	30.4	39.4	Silt (>0.002mm)	Clay (<0.002mm)
0.0	45.3		% Sand	45.6	9.1	

Classification: Imported - PENNDOT Approved Material

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"	785.00	96			
25.0	1"	3120.00	85			
19.0	3/4"	3535.00	83			
12.5	1/2"	6255.00	70			
9.5	3/8"	7440.00	64			
4.75	#4	9370.00	55			
2.00	#10	129.45	41			
0.850	#20	260.02	27			
0.400	#40	308.36	22			
0.250	#60	382.55	14			
0.177	#80	395.16	13			
0.150	#100	411.27	11			
0.075	#200	429.03	9			

Total Dry Wt. 20670 g
Split Wt. 514.46 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/23/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #108			

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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/17/2023

Distribution Page

Report Number: J5211361.0173E
Service Date: 10/29/22
Report Date: 03/24/23
Task:

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Rochester, NY 14624-2300
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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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0173H
Service Date: 10/29/22
Report Date: 03/24/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 10/29/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #109

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

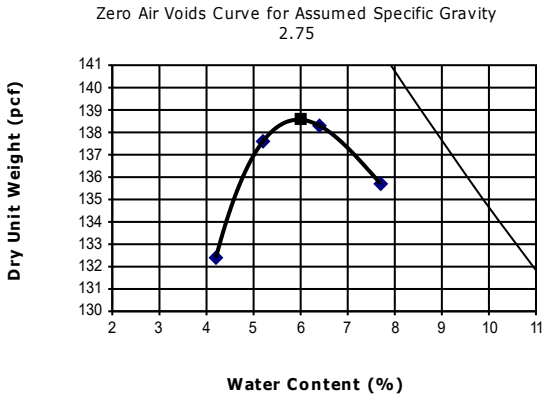
USCS:

Oversized Particles (%): 15.7
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.6**
Optimum Water Content (%): **6.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.5**
Optimum Water Content (%): **7.0**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0173H
Service Date: 10/29/22
Report Date: 03/24/23
Task:

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Rochester, NY 14624-2300
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(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Kaitlin Thell Ouverson

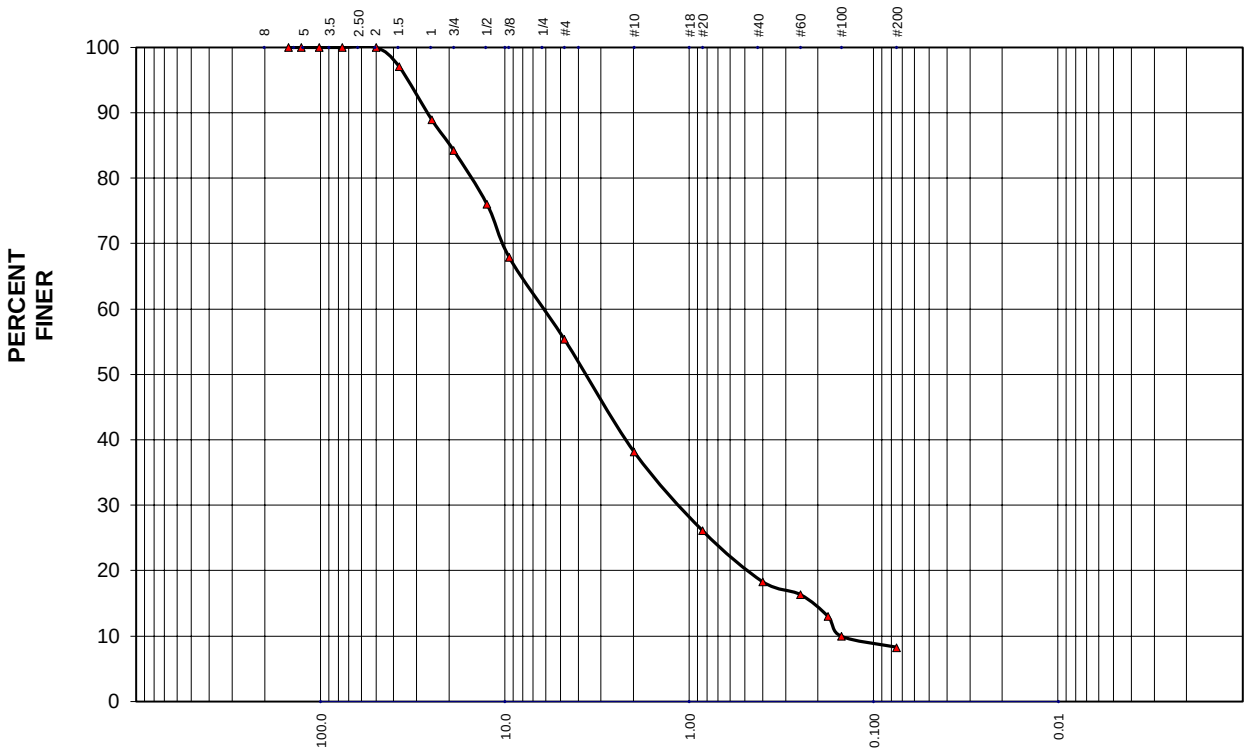
(1) Geosyntec Consultants, Paul Botek

(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	
		36.4	25.7	37.9	Silt (>0.002mm)	Clay (<0.002mm)
0.0	44.6		% Sand	47.1	8.3	

Classification: Imported - PENNDOT Approved Material

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"	615.00	97			
25.0	1"	2320.00	89			
19.0	3/4"	3285.00	84			
12.5	1/2"	5005.00	76			
9.5	3/8"	6720.00	68			
4.75	#4	9340.00	55			
2.00	#10	177.31	38			
0.850	#20	302.38	26			
0.400	#40	382.57	18			
0.250	#60	402.99	16			
0.177	#80	437.83	13			
0.150	#100	469.15	10			
0.075	#200	486.65	8			

Total Dry Wt. 20935 g
Split Wt. 572.45 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/23/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #109			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/20/2023

Distribution Page

Report Number: J5211361.0173G
Service Date: 10/29/22
Report Date: 03/24/23
Task:

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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0173J
Service Date: 10/29/22
Report Date: 03/24/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 10/29/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #110

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

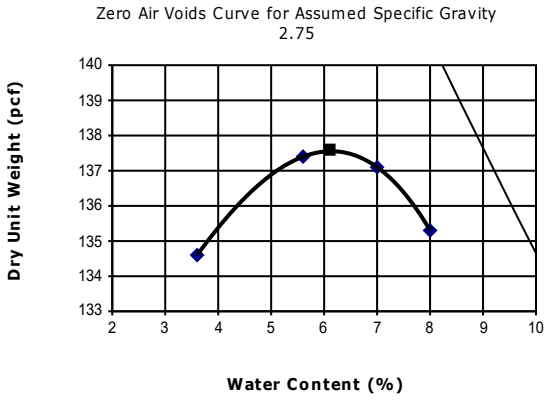
USCS:

Oversized Particles (%): 17.2
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **137.6**
Optimum Water Content (%): **6.1**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **132.9**
Optimum Water Content (%): **7.3**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0173J
Service Date: 10/29/22
Report Date: 03/24/23
Task:

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Rochester, NY 14624-2300
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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

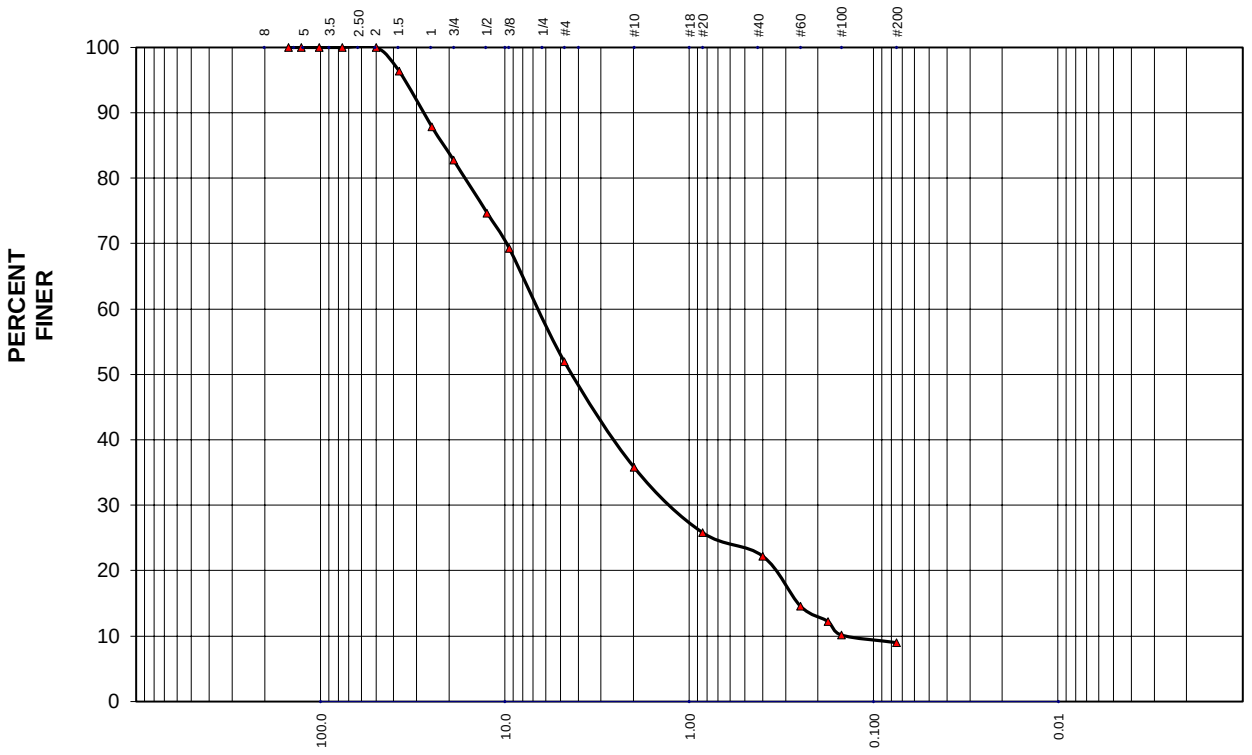
(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

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



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		37.8	23.1	39.1	Silt (>0.002mm)	Clay (<0.002mm)
0.0	48.0		% Sand	42.9	9.1	

Classification: Imported - PENNDOT Approved Material

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"	695.00	96			
25.0	1"	2320.00	88			
19.0	3/4"	3305.00	83			
12.5	1/2"	4855.00	75			
9.5	3/8"	5905.00	69			
4.75	#4	9220.00	52			
2.00	#10	174.39	36			
0.850	#20	281.04	26			
0.400	#40	319.75	22			
0.250	#60	402.37	15			
0.177	#80	427.56	12			
0.150	#100	449.92	10			
0.075	#200	461.81	9			

Total Dry Wt. 19210 g
Split Wt. 559.47 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/23/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #110			

Terracon
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Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/20/2023

Distribution Page

Report Number: J5211361.0173I
Service Date: 10/29/22
Report Date: 03/24/23
Task:

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Rochester, NY 14624-2300
585-247-3471

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(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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0173L
Service Date: 10/29/22
Report Date: 03/24/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 10/29/22
Sampled By: Pete Valenti
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #111

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

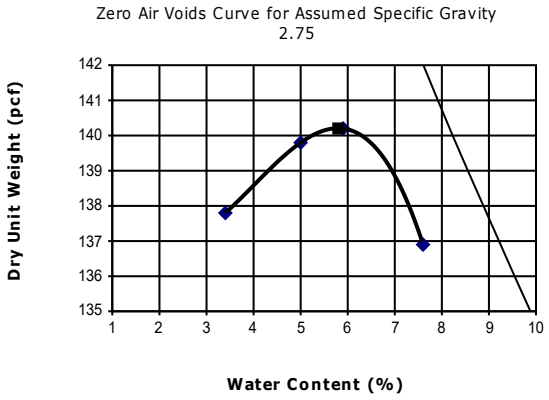
USCS:

Oversized Particles (%): 18.4
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.2**
Optimum Water Content (%): **5.8**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.5**
Optimum Water Content (%): **6.9**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0173L
Service Date: 10/29/22
Report Date: 03/24/23
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

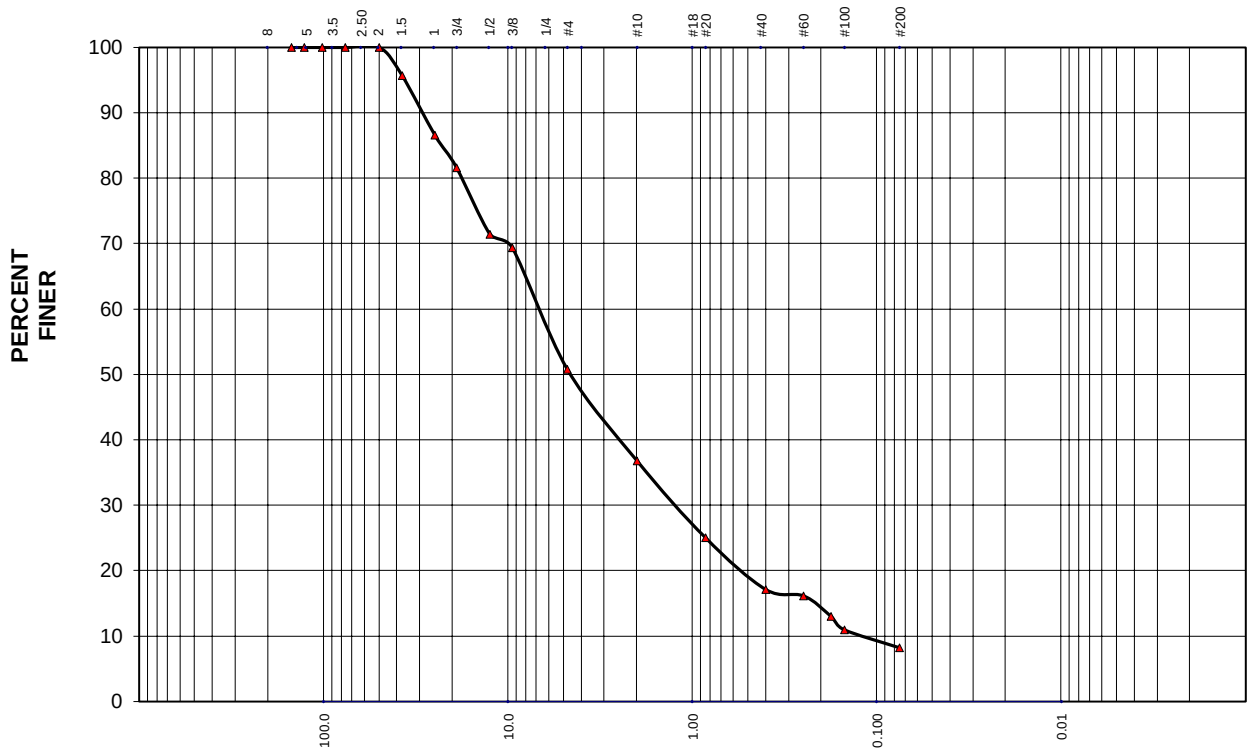
(1) Geosyntec Consultants, Paul Botek

(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	
		32.8	27.7	39.6	Silt (>0.002mm)	Clay (<0.002mm)
0.0	49.2		% Sand	42.6	8.2	

Classification: Imported - PENNDOT Approved Material

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"	955.00	96			
25.0	1"	3010.00	87			
19.0	3/4"	4120.00	82			
12.5	1/2"	6405.00	71			
9.5	3/8"	6870.00	69			
4.75	#4	11040.00	51			
2.00	#10	162.38	37			
0.850	#20	299.45	25			
0.400	#40	391.67	17			
0.250	#60	402.38	16			
0.177	#80	439.20	13			
0.150	#100	463.22	11			
0.075	#200	495.48	8			

Total Dry Wt. 22430 g
Split Wt. 591.24 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/23/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #111			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/20/2023

Distribution Page

Report Number: J5211361.0173K
Service Date: 10/29/22
Report Date: 03/24/23
Task:

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

Distribution List

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(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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0177F
Service Date: 11/01/22
Report Date: 03/25/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/01/22
Sampled By: Kyle Lemcke
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #114

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method A
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

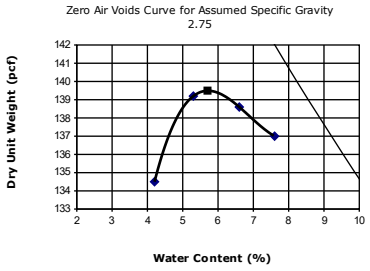
USCS:

Oversized Particles (%): 16.9
Moisture (%): 0.5
Sieve for Oversize Fraction: 4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **139.5**
Optimum Water Content (%): **5.7**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.1**
Optimum Water Content (%): **6.8**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0177F
Service Date: 11/01/22
Report Date: 03/25/23
Task:

15 Marway Cir, Ste 2B
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Distribution List

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(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Kaitlin Thell Ouverson

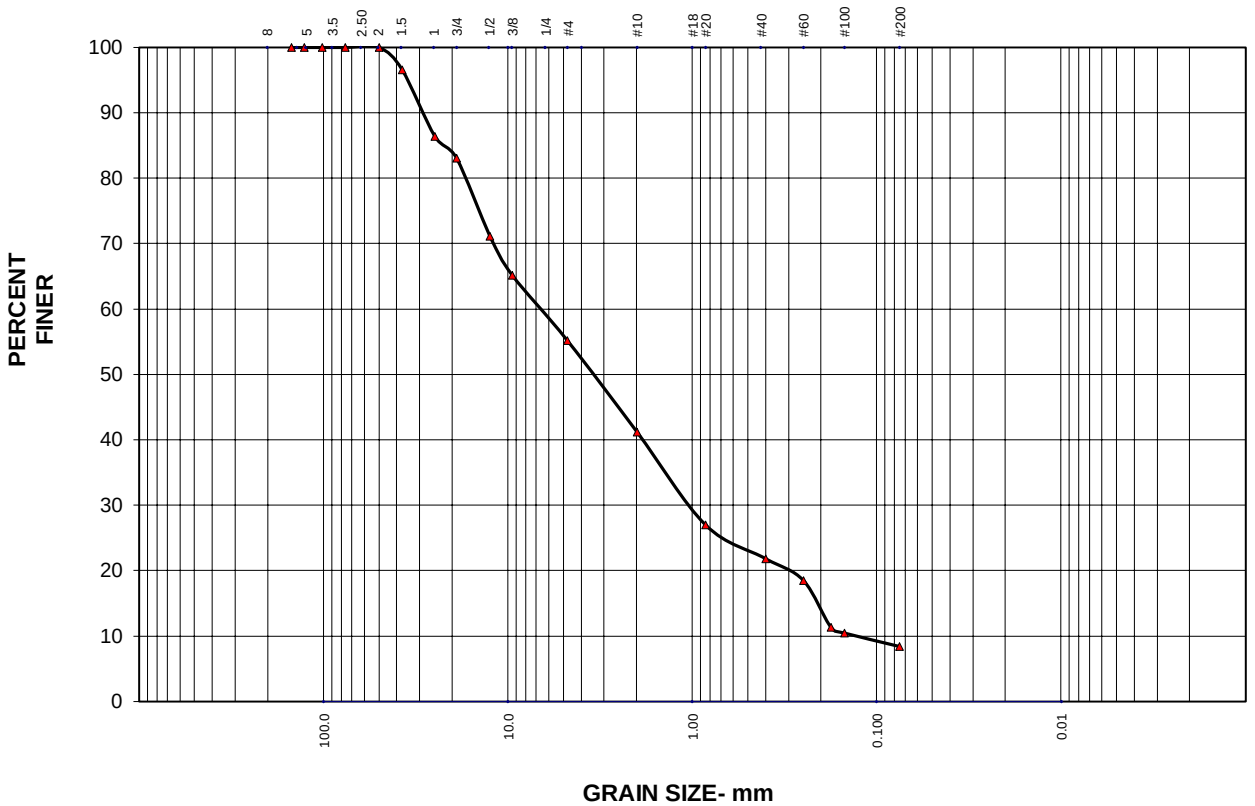
(1) Geosyntec Consultants, Paul Botek

(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	
		29.8	30.3	39.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	44.8		% Sand	46.8	8.4	

Classification: Imported - PENNDOT Approved Material

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"	690.00	97			
25.0	1"	2735.00	86			
19.0	3/4"	3405.00	83			
12.5	1/2"	5810.00	71			
9.5	3/8"	7025.00	65			
4.75	#4	9030.00	55			
2.00	#10	140.05	41			
0.850	#20	282.44	27			
0.400	#40	334.19	22			
0.250	#60	367.83	19			
0.177	#80	439.99	11			
0.150	#100	448.02	11			
0.075	#200	469.27	8			

Total Dry Wt. 20170 g
Split Wt. 553.64 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/23/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #114			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/21/2023

Distribution Page

Report Number: J5211361.0177E
Service Date: 11/01/22
Report Date: 03/24/23
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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0177H
Service Date: 11/01/22
Report Date: 03/25/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

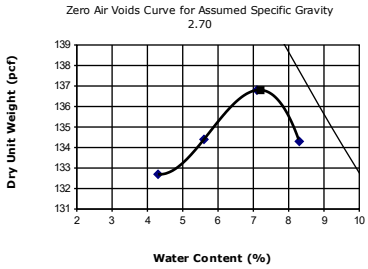
Sample Information

Sample Date: 11/01/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Aprpoved Material Sample #115

Laboratory Test Data

	Result	Specifications
Test Procedure:	ASTM D698	
Test Method:	Method C	
Sample Preparation:	Wet	
Rammer Type:	Mechanical	
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		
Oversized Particles (%):	18.3	
Moisture (%):	0.5	
Sieve for Oversize Fraction:	3/4	
Assumed Bulk Specific Gravity of Oversized Particles:	2.65	



Corrected for Oversized Particles (ASTM D4718)

Maximum Dry Unit Weight (pcf):	**136.8**
Optimum Water Content (%):	**7.2**

Uncorrected Values

Maximum Dry Unit Weight (pcf):	**131.7**
Optimum Water Content (%):	**8.6**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0177H
Service Date: 11/01/22
Report Date: 03/25/23
Task:

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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Kaitlin Thell Ouverson

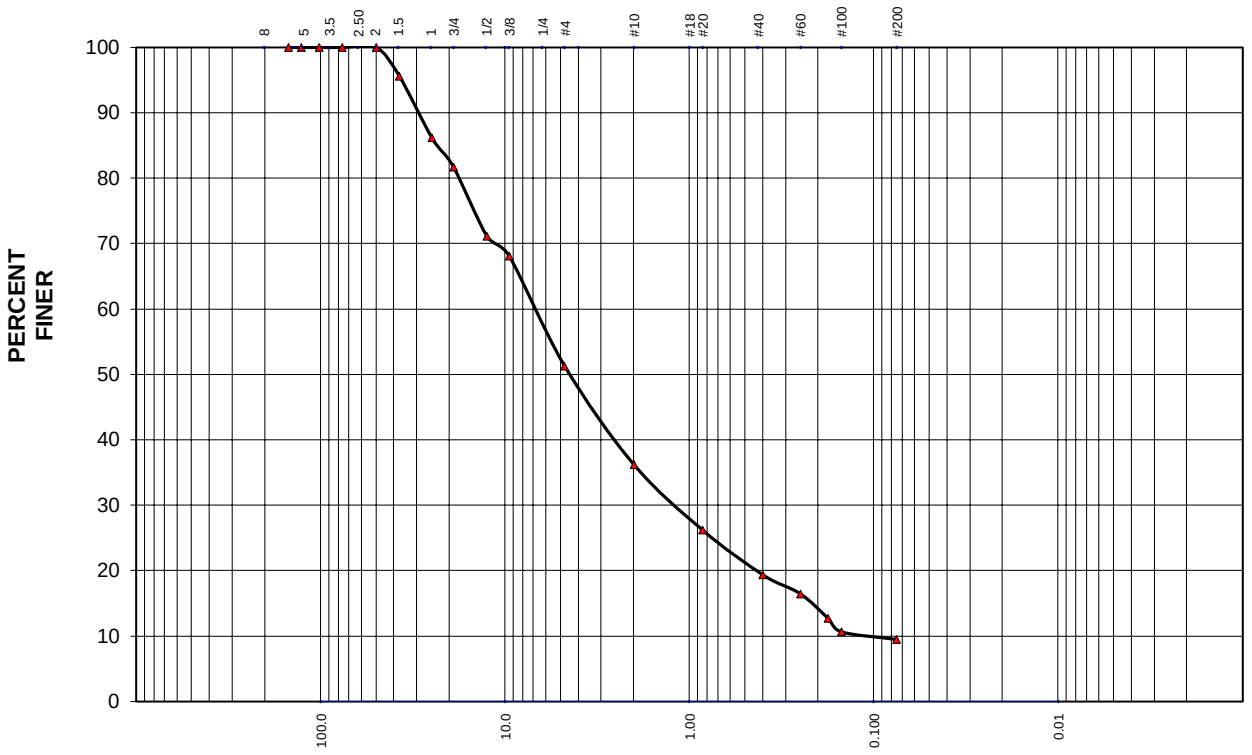
(1) Geosyntec Consultants, Paul Botek

(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	
		36.2	23.8	40.0	Silt (>0.002mm)	Clay (<0.002mm)
0.0	48.7		% Sand	41.8	9.5	

Classification: Imported - PENNDOT Approved Material

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"	975.00	96			
25.0	1"	3105.00	86			
19.0	3/4"	4120.00	82			
12.5	1/2"	6485.00	71			
9.5	3/8"	7170.00	68			
4.75	#4	10940.00	51			
2.00	#10	182.33	36			
0.850	#20	302.18	26			
0.400	#40	384.56	19			
0.250	#60	419.60	17			
0.177	#80	465.24	13			
0.150	#100	490.01	11			
0.075	#200	503.37	10			

Total Dry Wt. 22485 g
Split Wt. 618.34 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/23/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #115			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/21/2023

Distribution Page

Report Number: J5211361.0177G
Service Date: 11/01/22
Report Date: 03/25/23
Task:

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

Distribution List

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(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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0177J
Service Date: 11/01/22
Report Date: 03/25/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/01/22
Sampled By: Kyle Lemcke
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #116

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

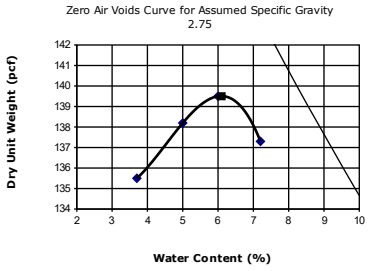
	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 16.4
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **139.5**
Optimum Water Content (%): **6.1**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.3**
Optimum Water Content (%): **7.2**



Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0177J
Service Date: 11/01/22
Report Date: 03/25/23
Task:

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Rochester, NY 14624-2300
585-247-3471

Distribution List

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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

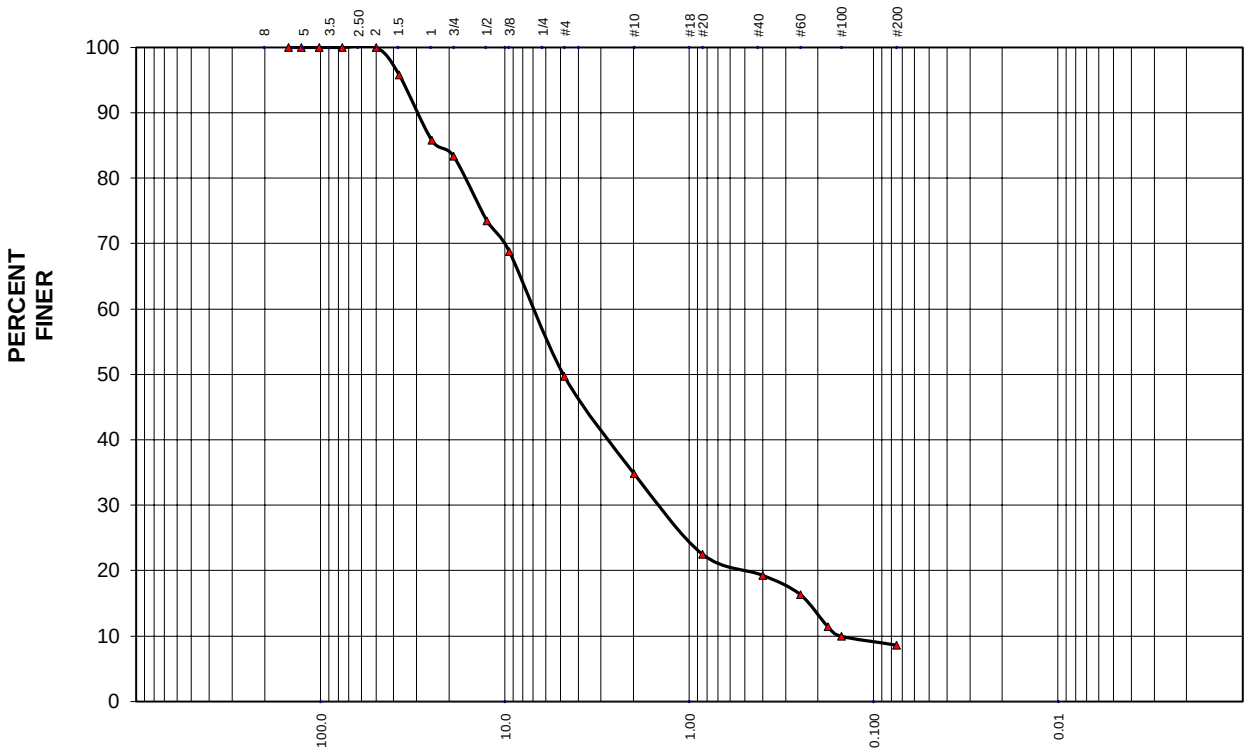
(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

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



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		36.2	30.0	33.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	50.2		% Sand	41.1	8.7	

Classification: Imported - PENNDOT Approved Material

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"	810.00	96			
25.0	1"	2755.00	86			
19.0	3/4"	3220.00	83			
12.5	1/2"	5140.00	74			
9.5	3/8"	6050.00	69			
4.75	#4	9755.00	50			
2.00	#10	130.46	35			
0.850	#20	238.40	23			
0.400	#40	266.61	19			
0.250	#60	292.92	16			
0.177	#80	335.81	11			
0.150	#100	348.63	10			
0.075	#200	360.09	9			

Total Dry Wt. 19420 g
Split Wt. 436.09 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/23/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #116			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/21/2023

Distribution Page

Report Number: J5211361.0177I
Service Date: 11/01/22
Report Date: 03/25/23
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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0177L
Service Date: 11/01/22
Report Date: 03/25/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/01/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #17

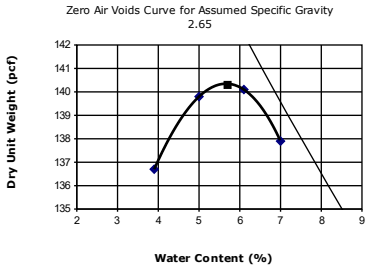
Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 22.0
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65



Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.3**
Optimum Water Content (%): **5.7**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.6**
Optimum Water Content (%): **7.1**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0177L
Service Date: 11/01/22
Report Date: 03/25/23
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

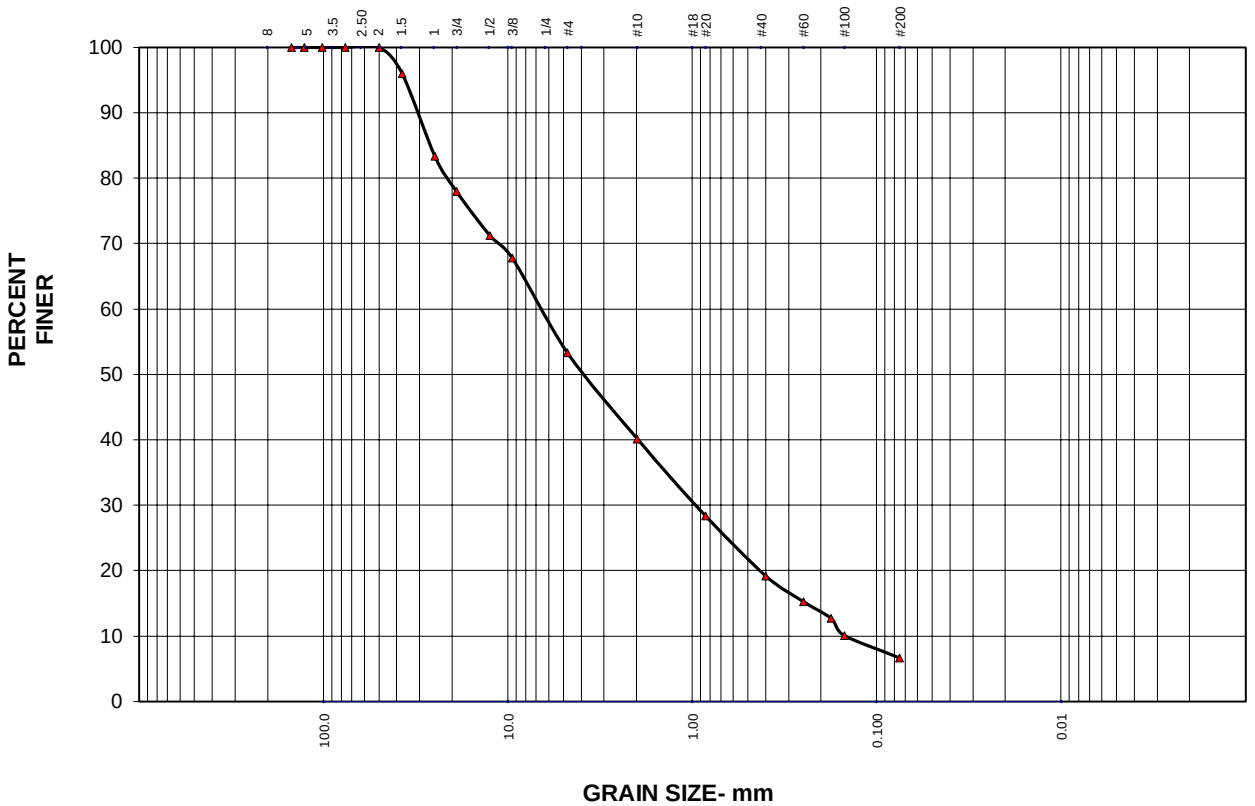
(1) Geosyntec Consultants, Paul Botek

(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	
		28.2	25.2	46.6	Silt (>0.002mm)	Clay (<0.002mm)
0.0	46.6		% Sand	46.6	6.7	

Classification: Imported - PENNDOT Approved Material

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"	780.00	96			
25.0	1"	3250.00	83			
19.0	3/4"	4305.00	78			
12.5	1/2"	5625.00	71			
9.5	3/8"	6290.00	68			
4.75	#4	9125.00	53			
2.00	#10	123.47	40			
0.850	#20	233.71	28			
0.400	#40	320.09	19			
0.250	#60	357.23	15			
0.177	#80	380.90	13			
0.150	#100	405.58	10			
0.075	#200	437.25	7			

Total Dry Wt. 19565 g
Split Wt. 500.35 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/23/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #117			

Terracon
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/20/2023

Distribution Page

Report Number: J5211361.0177K
Service Date: 11/01/22
Report Date: 03/25/23
Task:

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(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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0177N
Service Date: 11/01/22
Report Date: 03/25/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/01/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #118

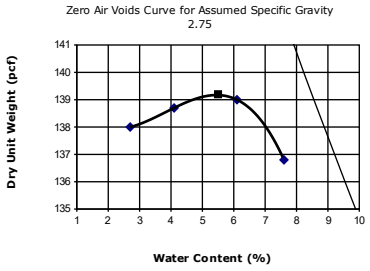
Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 16.6
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65



Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **139.2**
Optimum Water Content (%): **5.5**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.9**
Optimum Water Content (%): **6.4**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0177N
Service Date: 11/01/22
Report Date: 03/25/23
Task:

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(1) Geosyntec Consultants, Kaitlin Thell Ouverson

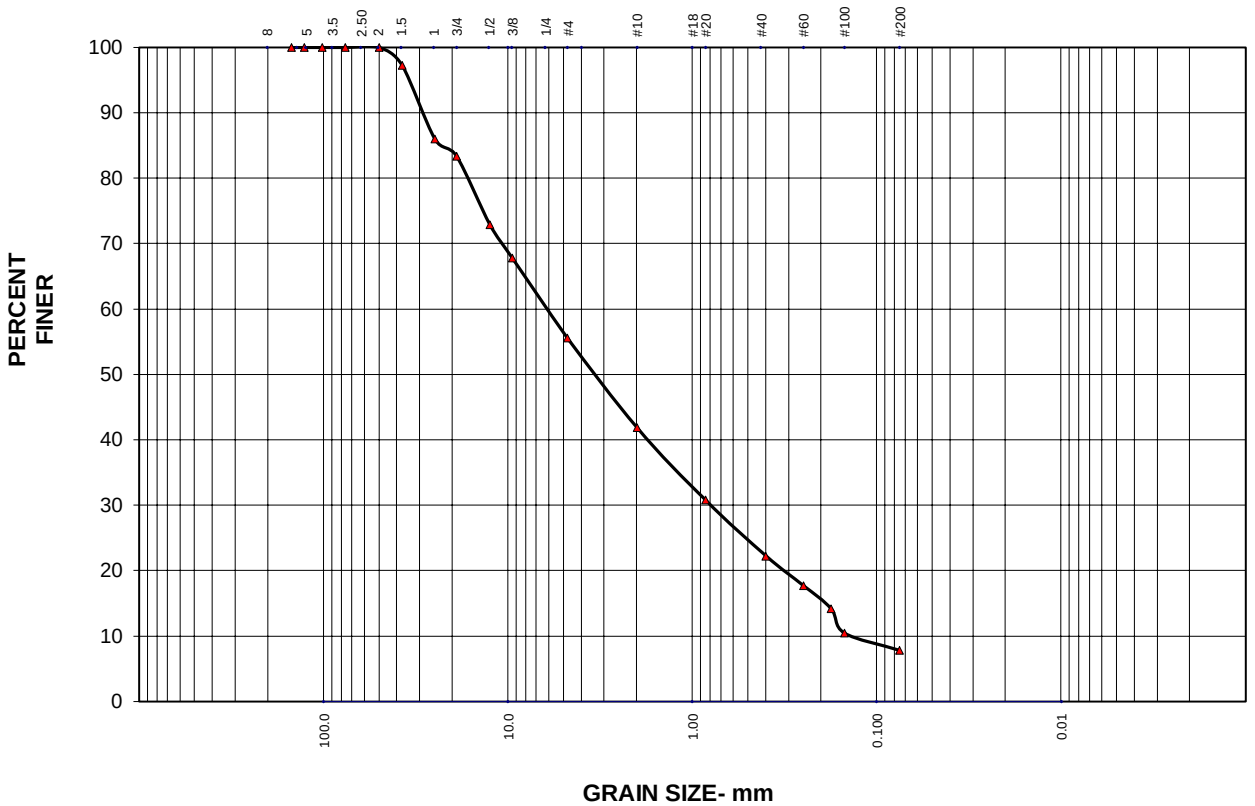
(1) Geosyntec Consultants, Paul Botek

(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	
		28.8	23.1	48.1	Silt (>0.002mm)	Clay (<0.002mm)
0.0	44.4		% Sand	47.8	7.9	

Classification: Imported - PENNDOT Approved Material

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"	475.00	97			
25.0	1"	2430.00	86			
19.0	3/4"	2895.00	83			
12.5	1/2"	4725.00	73			
9.5	3/8"	5605.00	68			
4.75	#4	7730.00	56			
2.00	#10	122.14	42			
0.850	#20	220.03	31			
0.400	#40	295.72	22			
0.250	#60	335.84	18			
0.177	#80	367.02	14			
0.150	#100	400.44	10			
0.075	#200	423.75	8			

Total Dry Wt. 17425 g
Split Wt. 493.37 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/23/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #118			

Terracon
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/22/2023

Distribution Page

Report Number: J5211361.0177M
Service Date: 11/01/22
Report Date: 03/25/23
Task:

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Rochester, NY 14624-2300
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(1) Geosyntec Consultants, Miranda Stelmach

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(1) Geosyntec Consultants, Brian Harris

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(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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0177P
Service Date: 11/01/22
Report Date: 03/25/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/01/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #119

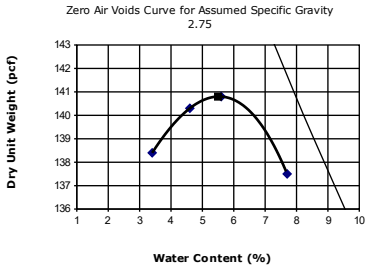
Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 22.0
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65



Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.8**
Optimum Water Content (%): **5.5**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.1**
Optimum Water Content (%): **7.0**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0177P
Service Date: 11/01/22
Report Date: 03/25/23
Task:

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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Kaitlin Thell Ouverson

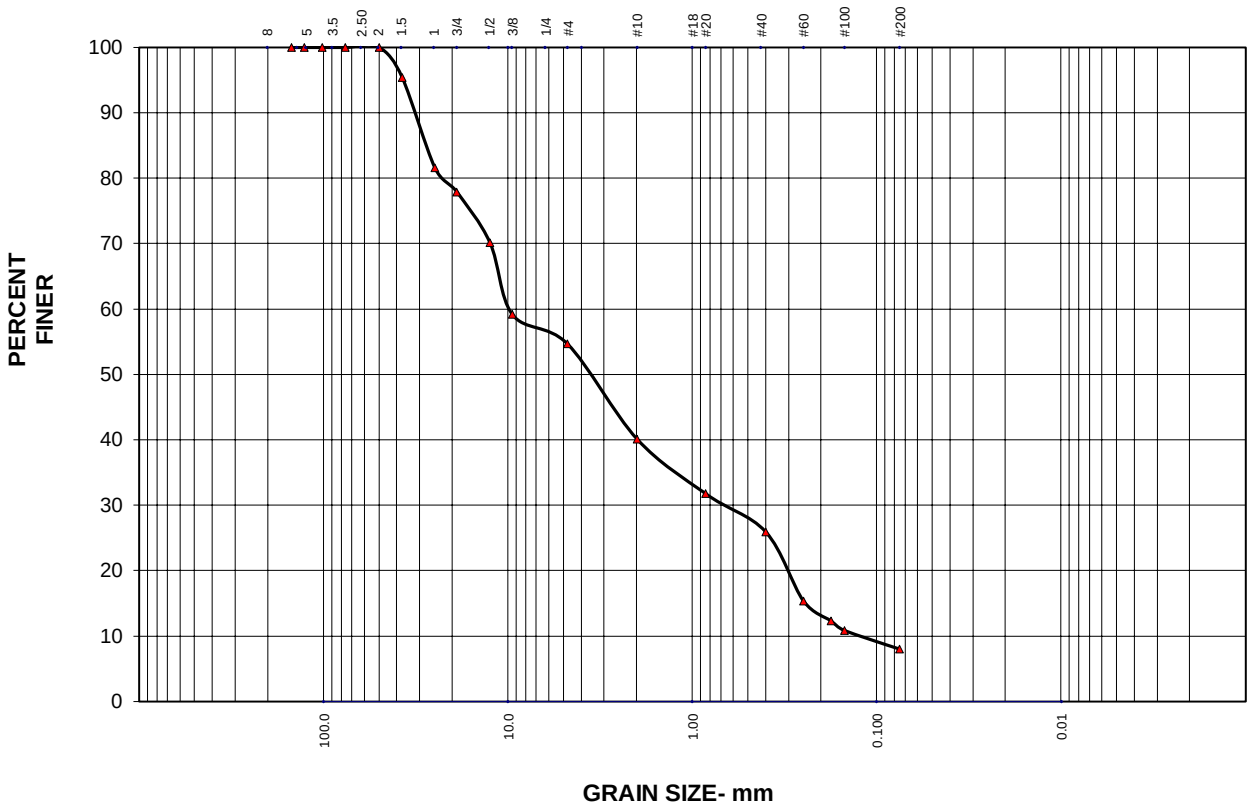
(1) Geosyntec Consultants, Paul Botek

(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	
		31.1	17.9	51.0	Silt (>0.002mm)	Clay (<0.002mm)
0.0	45.3		% Sand	46.7	8.0	

Classification: Imported - PENNDOT Approved Material

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"	845.00	95			
25.0	1"	3420.00	82			
19.0	3/4"	4100.00	78			
12.5	1/2"	5540.00	70			
9.5	3/8"	7590.00	59			
4.75	#4	8430.00	55			
2.00	#10	132.65	40			
0.850	#20	209.17	32			
0.400	#40	262.40	26			
0.250	#60	358.91	15			
0.177	#80	386.72	12			
0.150	#100	400.05	11			
0.075	#200	426.54	8			

Total Dry Wt. 18600 g
Split Wt. 499.81 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/23/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #119			

Terracon
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/21/2023

Distribution Page

Report Number: J5211361.0177O
Service Date: 11/01/22
Report Date: 03/25/23
Task:

15 Marway Cir, Ste 2B
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Distribution List

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(1) Geosyntec Consultants, Aron Krasnopoler

(1) Geosyntec Consultants, Brian Harris

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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Kaitlin Thell Ouverson

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

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LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0177R
Service Date: 11/01/22
Report Date: 03/25/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 03/23/23
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #120

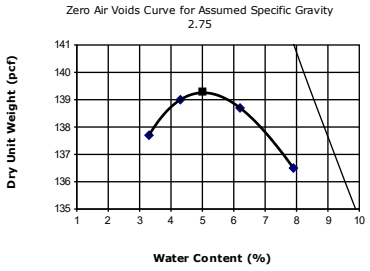
Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 18.2
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65



Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **139.3**
Optimum Water Content (%): **5.0**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.5**
Optimum Water Content (%): **6.1**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0177R
Service Date: 11/01/22
Report Date: 03/25/23
Task:

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Rochester, NY 14624-2300
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(1) Geosyntec Consultants, Byran York

(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Kaitlin Thell Ouverson

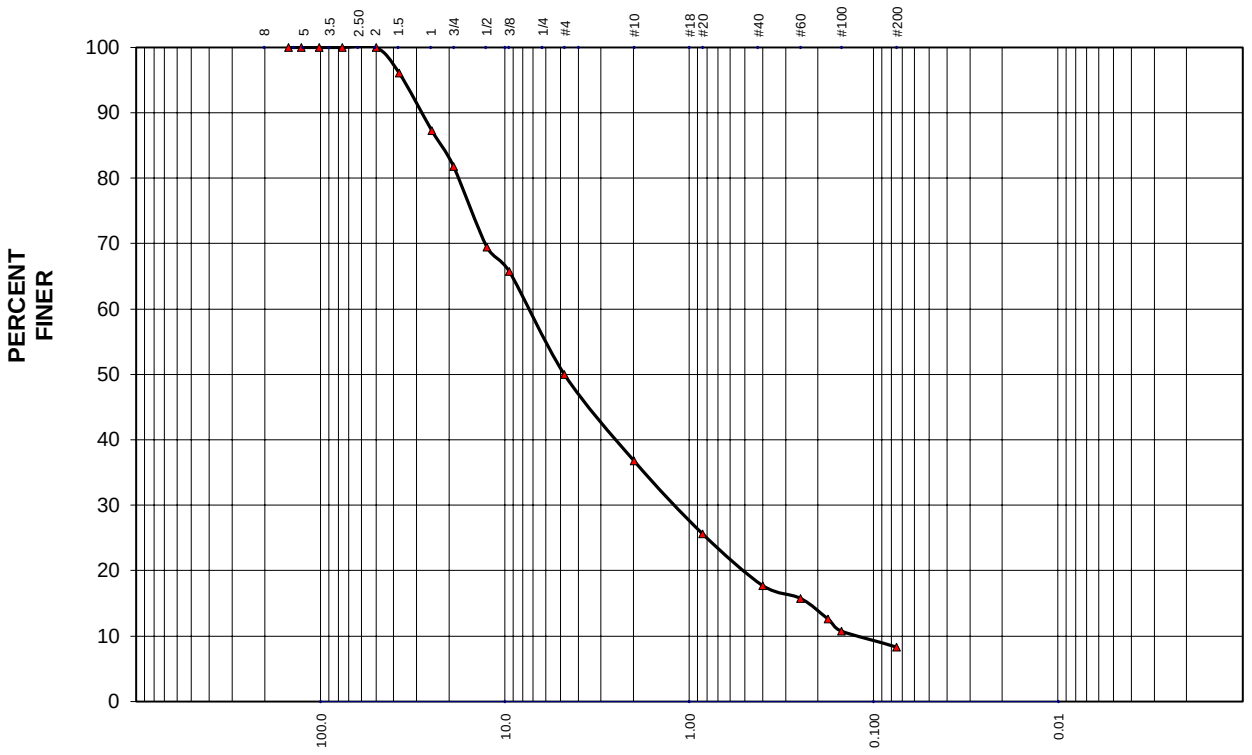
(1) Geosyntec Consultants, Paul Botek

(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	
		31.8	26.7	41.5	Silt (>0.002mm)	Clay (<0.002mm)
0.0	49.9		% Sand	41.7	8.4	

Classification: Imported - PENNDOT Approved Material

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"	840.00	96			
25.0	1"	2765.00	87			
19.0	3/4"	3950.00	82			
12.5	1/2"	6620.00	69			
9.5	3/8"	7430.00	66			
4.75	#4	10835.00	50			
2.00	#10	154.28	37			
0.850	#20	283.62	26			
0.400	#40	375.69	18			
0.250	#60	398.23	16			
0.177	#80	435.50	13			
0.150	#100	456.71	11			
0.075	#200	485.04	8			

Total Dry Wt. 21695 g
Split Wt. 582.45 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/25/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #120			

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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/23/2023

Distribution Page

Report Number: J5211361.0177Q
Service Date: 11/01/22
Report Date: 03/25/23
Task:

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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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0177T
Service Date: 11/01/22
Report Date: 03/25/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/01/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #121

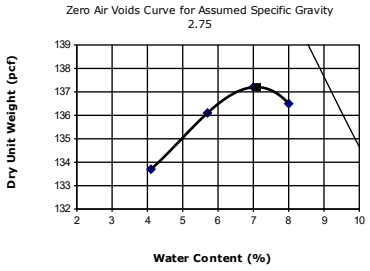
Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 15.2
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65



Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **137.2**
Optimum Water Content (%): **7.1**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **133.1**
Optimum Water Content (%): **8.2**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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Distribution Page

Report Number: J5211361.0177T
Service Date: 11/01/22
Report Date: 03/25/23
Task:

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Rochester, NY 14624-2300
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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

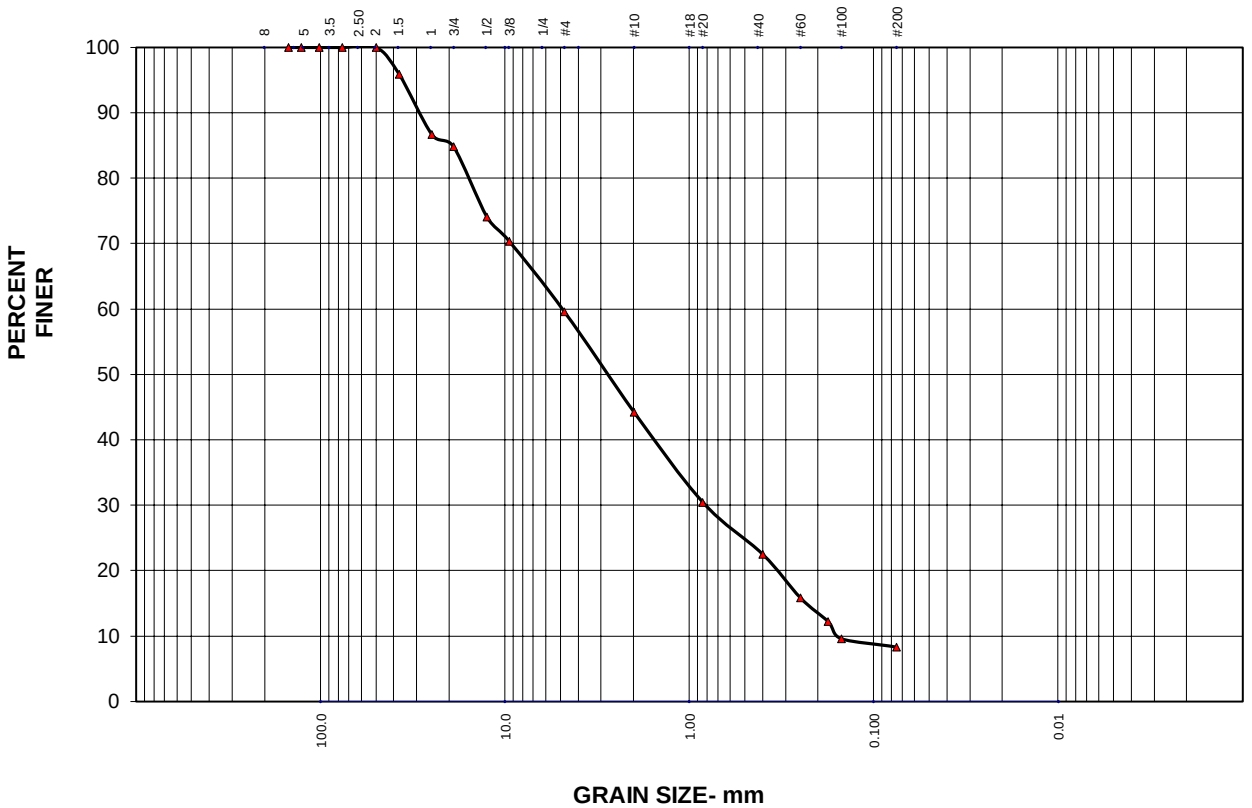
(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

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



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		29.9	26.9	43.2	Silt (>0.002mm)	Clay (<0.002mm)
0.0	40.4	% Sand		51.2	8.4	

Classification: Imported - PENNDOT Approved Material

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"	805.00	96			
25.0	1"	2635.00	87			
19.0	3/4"	3005.00	85			
12.5	1/2"	5125.00	74			
9.5	3/8"	5860.00	70			
4.75	#4	7995.00	60			
2.00	#10	124.14	44			
0.850	#20	235.62	31			
0.400	#40	300.15	23			
0.250	#60	354.23	16			
0.177	#80	382.98	12			
0.150	#100	404.37	10			
0.075	#200	414.58	8			

Total Dry Wt. 19805 g
Split Wt. 482.43 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/25/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #121			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/24/2023

Distribution Page

Report Number: J5211361.0177S
Service Date: 11/01/22
Report Date: 03/25/23
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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0177V
Service Date: 11/01/22
Report Date: 03/25/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/01/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #122

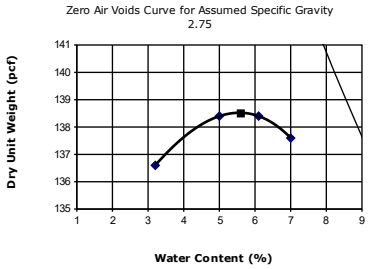
Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 16.1
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65



Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **138.5**
Optimum Water Content (%): **5.6**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.3**
Optimum Water Content (%): **6.6**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0177V
Service Date: 11/01/22
Report Date: 03/25/23
Task:

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

Distribution List

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(1) Geosyntec Consultants, Kaitlin Thell Ouverson

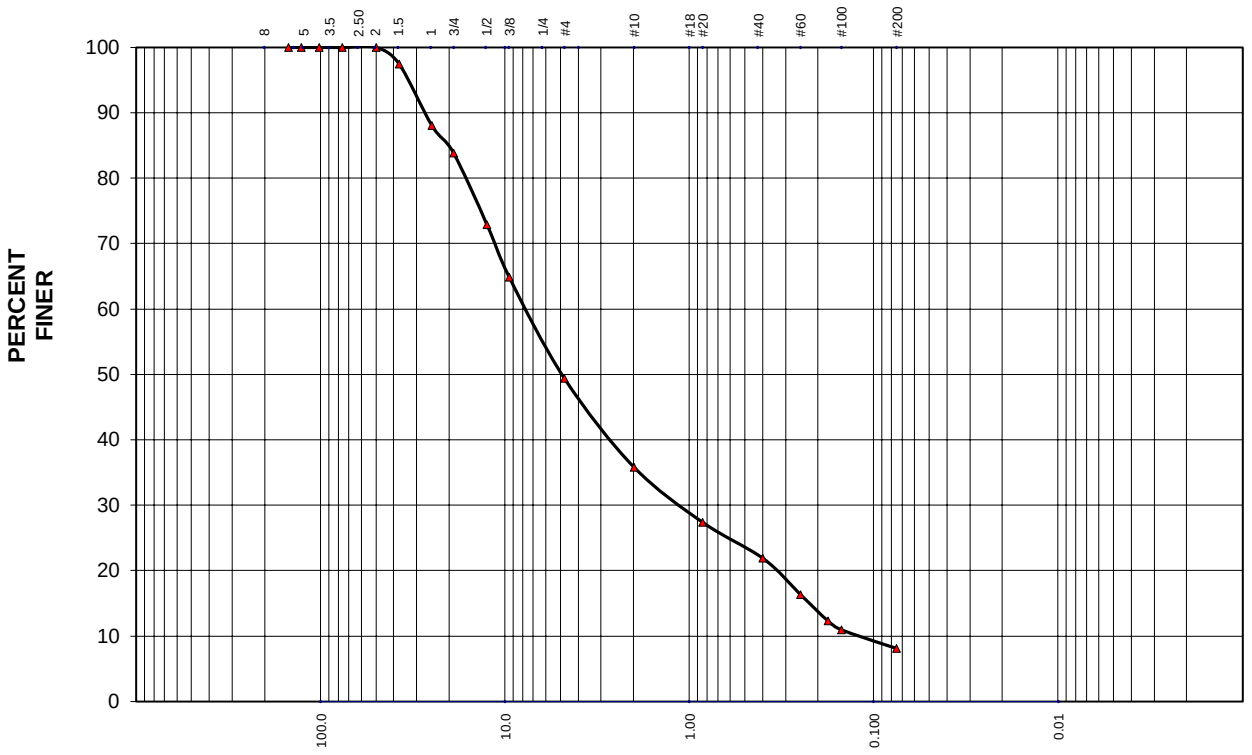
(1) Geosyntec Consultants, Paul Botek

(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	
		32.8	20.3	46.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	50.6		% Sand	41.3	8.1	

Classification: Imported - PENNDOT Approved Material

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"	410.00	97			
25.0	1"	1940.00	88			
19.0	3/4"	2620.00	84			
12.5	1/2"	4395.00	73			
9.5	3/8"	5710.00	65			
4.75	#4	8220.00	49			
2.00	#10	135.46	36			
0.850	#20	219.26	27			
0.400	#40	274.59	22			
0.250	#60	329.71	16			
0.177	#80	370.12	12			
0.150	#100	383.56	11			
0.075	#200	412.37	8			

Total Dry Wt. 16245 g
Split Wt. 493.46 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/25/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #122			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/24/2023

Distribution Page

Report Number: J5211361.0177U
Service Date: 11/01/22
Report Date: 03/25/23
Task:

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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Kaitlin Thell Ouverson

(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

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(1) Geosyntec Consultants, William Steier

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0177X
Service Date: 11/01/22
Report Date: 03/25/23

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 Number: J5211361

Material Information

Source of Material: Lawenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/01/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #123

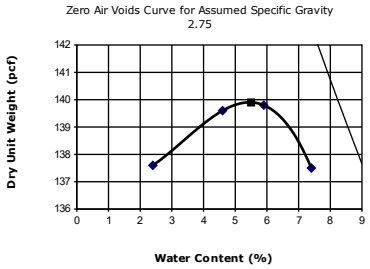
Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 20.3
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65



Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **139.9**
Optimum Water Content (%): **5.5**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **134.6**
Optimum Water Content (%): **6.7**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0177X
Service Date: 11/01/22
Report Date: 03/25/23
Task:

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(1) Geosyntec Consultants, Colin Lamas

(1) Geosyntec Consultants, Kaitlin Thell Ouverson

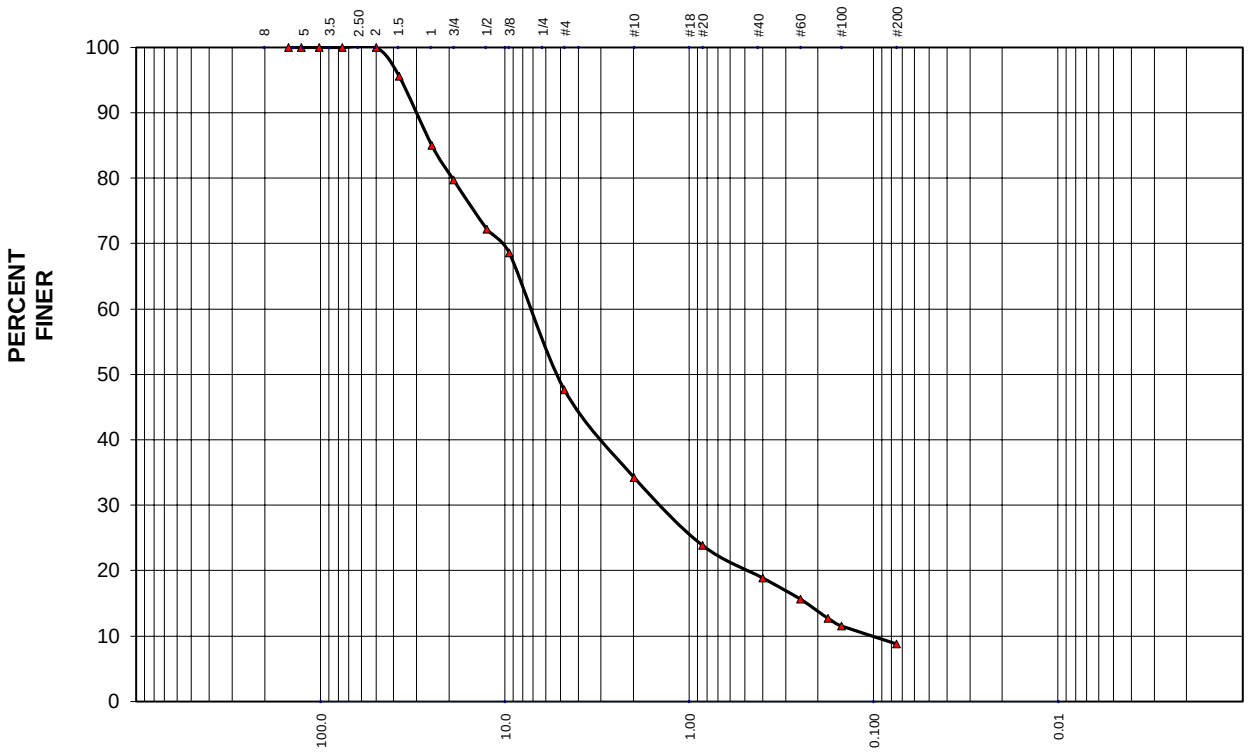
(1) Geosyntec Consultants, Paul Botek

(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	
		34.5	26.7	38.8	Silt (>0.002mm)	Clay (<0.002mm)
0.0	52.3		% Sand	38.9	8.8	

Classification: Imported - PENNDOT Approved Material

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"	1015.00	96			
25.0	1"	3425.00	85			
19.0	3/4"	4655.00	80			
12.5	1/2"	6370.00	72			
9.5	3/8"	7215.00	69			
4.75	#4	12005.00	48			
2.00	#10	179.54	34			
0.850	#20	318.23	24			
0.400	#40	385.47	19			
0.250	#60	429.08	16			
0.177	#80	467.82	13			
0.150	#100	483.05	12			
0.075	#200	520.03	9			

Total Dry Wt. 22955 g
Split Wt. 638.41 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/25/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #123			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/24/2023

Distribution Page

Report Number: J5211361.0177W
Service Date: 11/01/22
Report Date: 03/25/23
Task:

15 Marway Cir, Ste 2B
Rochester, NY 14624-2300
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Distribution List

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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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0177Z
Service Date: 11/01/22
Report Date: 03/25/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/01/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #124

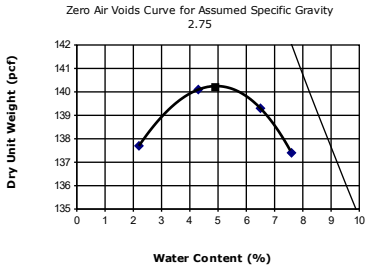
Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 18.6
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65



Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.2**
Optimum Water Content (%): **4.9**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.6**
Optimum Water Content (%): **6.0**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0177Z
Service Date: 11/01/22
Report Date: 03/25/23
Task:

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

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(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

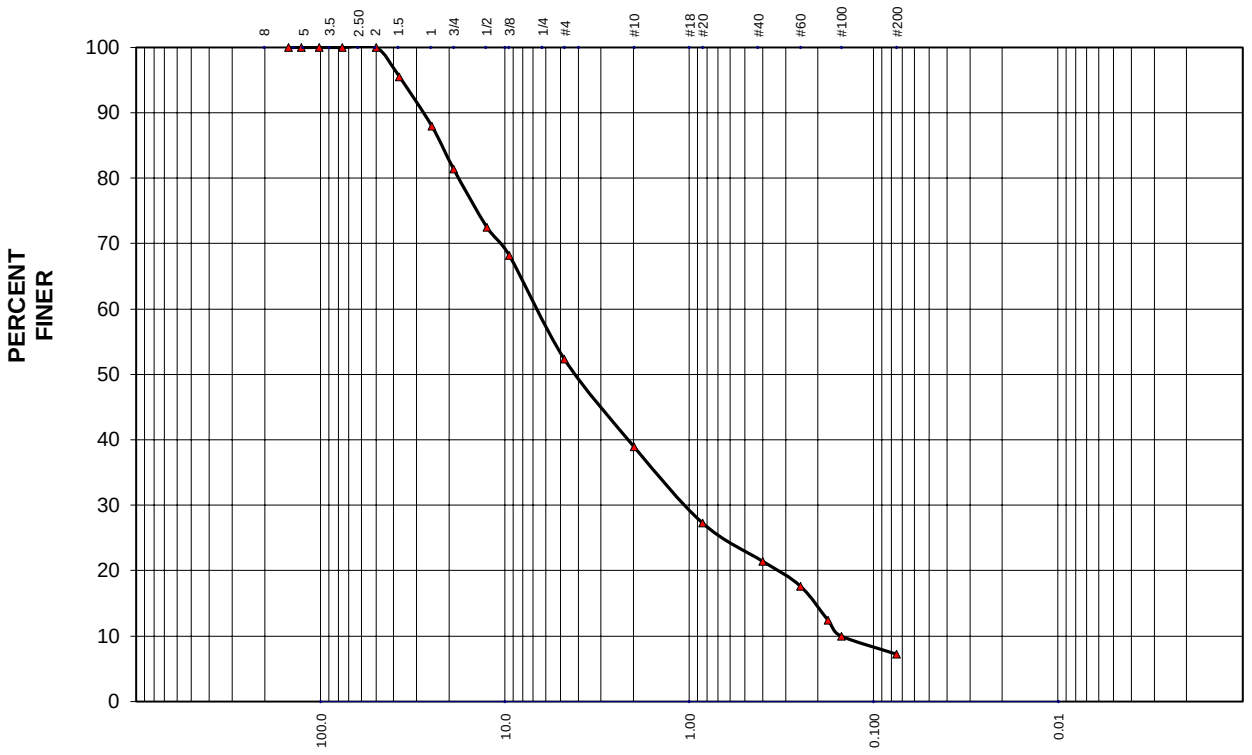
(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

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



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		29.7	25.9	44.5	Silt (>0.002mm)	Clay (<0.002mm)
0.0	47.7		% Sand	45.1	7.3	

Classification: Imported - PENNDOT Approved Material

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"	905.00	96			
25.0	1"	2460.00	88			
19.0	3/4"	3790.00	81			
12.5	1/2"	5615.00	72			
9.5	3/8"	6480.00	68			
4.75	#4	9725.00	52			
2.00	#10	132.09	39			
0.850	#20	247.28	27			
0.400	#40	305.26	21			
0.250	#60	342.51	18			
0.177	#80	394.56	12			
0.150	#100	418.03	10			
0.075	#200	445.47	7			

Total Dry Wt. 20405 g
Split Wt. 517.28 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/25/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #124			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
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http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/24/2023

Distribution Page

Report Number: J5211361.0177Y
Service Date: 11/01/22
Report Date: 03/25/23
Task:

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

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: J5211361.0205A
Service Date: 11/01/22
Report Date: 03/25/23

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 Number: J5211361

Material Information

Source of Material: Lawrenceville Quarry
Proposed Use: Structural Fill

Sample Information

Sample Date: 11/01/22
Sampled By: Rob Castronovo
Sample Location: Imported from Lawrenceville Quarry

Sample Description: PENNDOT Approved Material Sample #125

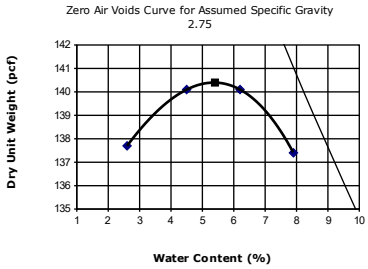
Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	Result	Specifications
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		
USCS:		

Oversized Particles (%): 20.9
Moisture (%): 0.5
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65



Corrected for Oversized Particles (ASTM D4718)
Maximum Dry Unit Weight (pcf): **140.4**
Optimum Water Content (%): **5.4**

Uncorrected Values
Maximum Dry Unit Weight (pcf): **135.0**
Optimum Water Content (%): **6.5**

Comments:

Services:

Terracon Rep.: Kyle Lemcke
Reported To:
Contractor:

Report Distribution:
See attached distribution list.

Reviewed By: Kyle P. Lemcke

Kyle Lemcke
Staff Engineer

Test Methods: ASTM D698

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.

Distribution Page

Report Number: J5211361.0205A
Service Date: 11/01/22
Report Date: 03/25/23
Task:

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

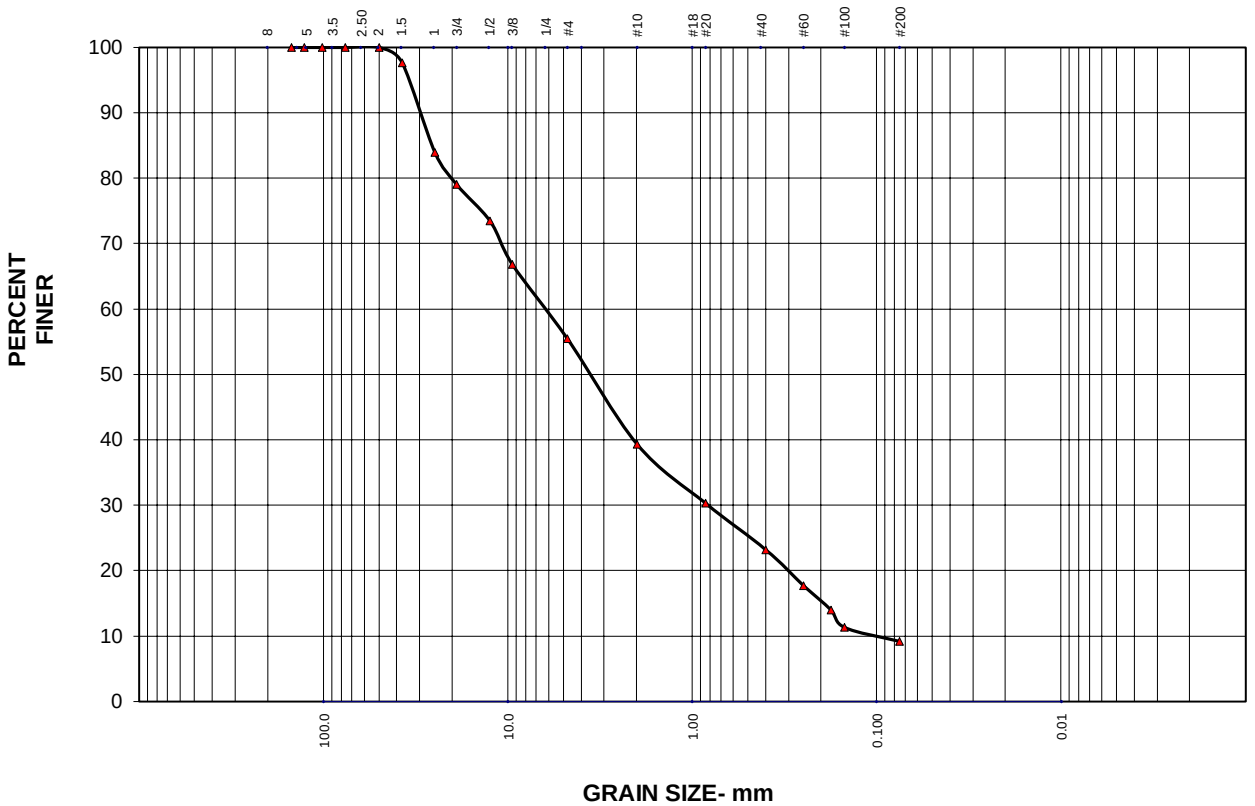
(1) Geosyntec Consultants, Paul Botek

(1) Geosyntec Consultants, Paul Brookner

(1) Geosyntec Consultants, Tom Ramsey

(1) Geosyntec Consultants, William Steier

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



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
		34.8	19.5	45.7	Silt (>0.002mm)	Clay (<0.002mm)
0.0	44.5		% Sand	46.3	9.2	

Classification: Imported - PENNDOT Approved Material

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"	420.00	98			
25.0	1"	2840.00	84			
19.0	3/4"	3710.00	79			
12.5	1/2"	4715.00	73			
9.5	3/8"	5885.00	67			
4.75	#4	7915.00	55			
2.00	#10	160.10	39			
0.850	#20	249.58	30			
0.400	#40	320.32	23			
0.250	#60	374.65	18			
0.177	#80	411.91	14			
0.150	#100	438.45	11			
0.075	#200	459.74	9			

Total Dry Wt. 17770 g
Split Wt. 551.24 g

Project:	**Elmira High School Football Field**	Project No.:	**J5211361**	Date:	**3/25/2023**
Location:	Elmira, New York	Specification:	ASTM C136		
Source	Lawrenceville Quarry	Sample #125			

Terracon
15 Marway Circle, Suite 2B
Rochester, NY 14624
585-247-3471
http://www.terracon.com/

Remarks:

Tested By: K. Lemcke Date: 3/24/2023

Distribution Page

Report Number: J5211361.0205
Service Date: 11/01/22
Report Date: 03/25/23
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