Compaction Reports Summary Sheet

Service Date	Report Date	Compaction Report Number
11/19/2021	11/19/2021	J5211361.0002
11/20/2021	11/22/2021	J5211361.0005
11/22/2021	11/24/2021	J5211361.0008
11/23/2021	11/24/2021	J5211361.0009
12/1/2021	12/2/2021	J5211361.0010
12/2/2021	12/3/2021	J5211361.0011
12/8/2021	12/13/2021	J5211361.0012
12/9/2021	12/13/2021	J5211361.0013
12/10/2021	12/14/2021	J5211361.0014
12/14/2021	12/15/2024	J5211361.0015
12/15/2021	12/21/2021	J5211361.0016
12/21/2021	12/27/2021	J5211361.0018
12/22/2021	3/10/2022	J5211361.0019
4/26/2022	4/27/2022	J5211361.0061
4/27/2022	6/1/2022	J5211361.0062
4/28/2022	5/4/2022	J5211361.0063
4/29/2022	5/4/2022	J5211361.0064
5/2/2022	5/6/2022	J5211361.0065
5/11/2022	5/16/2022	J5211361.0070
5/13/2022	5/19/2022	J5211361.0072
5/16/2022	5/24/2022	J5211361.0073
5/17/2022	6/8/2022	J5211361.0074
5/20/2022	5/25/2022	J5211361.0076
5/21/2022	5/25/2022	J5211361.0077
5/23/2022	6/8/2022	J5211361.0078
5/26/2022	5/27/2022	J5211361.0083
5/27/2022	5/27/2022	J5211361.0084
5/31/2022	6/2/2022	J5211361.0085
6/1/2022	6/2/2022	J5211361.0086
6/2/2022	6/7/2022	J5211361.0087
6/3/2022	6/6/2022	J5211361.0088
6/6/2022	6/7/2022	J5211361.0089
6/7/2022	6/9/2022	J5211361.0090
6/8/2022	6/9/2022	J5211361.0091
6/10/2022	6/10/2022	J5211361.0093
6/13/2022	6/13/2022	J5211361.0094
6/14/2022	6/14/2022	J5211361.0095
6/15/2022	6/16/2022	J5211361.0096
6/16/2022	6/20/2022	J5211361.0097
6/17/2022	6/20/2022	J5211361.0098

6/19/2022	6/20/2022	J5211361.0099
6/20/2022	6/22/2022	J5211361.0100
6/21/2022	6/28/2022	J5211361.0101
7/5/2022	7/6/2022	J5211361.0103
7/7/2022	7/11/2022	J5211361.0105
7/8/2022	7/12/2022	J5211361.0106
7/9/2022	10/13/2022	J5211361.0107
7/25/2022	1/4/2023	J5211361.0108
7/26/2022	8/19/2022	J5211361.0109
7/27/2022	1/4/2023	J5211361.0110
7/28/2022	8/19/2022	J5211361.0113
7/29/2022	8/19/2022	J5211361.0114
7/30/2022	8/19/2022	J5211361.0115
8/1/2022	8/11/2022	J5211361.0116
8/2/2022	9/6/2022	J5211361.0117
8/3/2022	8/19/2022	J5211361.0118
8/4/2022	10/12/2022	J5211361.0119
8/5/2022	1/3/2023	J5211361.0120
8/8/2022	8/15/2022	J5211361.0121
8/9/2022	8/10/2022	J5211361.0122
8/10/2022	8/12/2022	J5211361.0123
8/11/2022	8/15/2022	J5211361.0124
8/12/2022	8/19/2022	J5211361.0126
8/13/2022	9/6/2022	J5211361.0127
8/14/2022	8/19/2022	J5211361.0129
8/15/2022	8/19/2022	J5211361.0130
8/16/2022	9/6/2022	J5211361.0128
8/17/2022	10/12/2022	J5211361.0131
8/18/2022	8/19/2022	J5211361.0132
8/19/2022	10/12/2022	J5211361.0133
8/31/2022	9/6/2022	J5211361.0139
9/9/2022	9/12/2022	J5211361.0140
9/10/2022	9/12/2022	J5211361.0141
9/12/2022	10/12/2022	J5211361.0143
9/13/2022	9/15/2022	J5211361.0144
9/14/2022	10/12/2022	J5211361.0145
9/15/2022	9/19/2022	J5211361.0146
9/16/2022	11/8/2022	J5211361.0147
9/19/2022	9/26/2022	J5211361.0148
9/20/2022	9/26/2022	J5211361.0150
9/21/2022	9/22/2022	J5211361.0151
9/23/2022	9/26/2022	J5211361.0153
9/24/2022	10/12/2022	J5211361.0154
9/25/2022	10/12/2022	J5211361.0155

9/27/2022	9/28/2022	J5211361.0156
9/28/2022	10/12/2022	J5211361.0157
9/30/2022	10/4/2022	J5211361.0159
10/1/2022	10/4/2022	J5211361.0160
10/3/2022	10/4/2022	J5211361.0161
10/5/2022	10/24/2022	J5211361.0163
10/6/2022	10/31/2022	J5211361.0164
10/7/2022	10/24/2022	J5211361.0166
10/8/2022	10/13/2022	J5211361.0167
10/10/2022	10/13/2022	J5211361.0168
10/26/2022	10/31/2022	J5211361.0169
10/27/2022	10/28/2022	J5211361.0170
10/28/2022	11/3/2022	J5211361.0171
10/29/2022	11/3/2022	J5211361.0172
10/30/2022	11/3/2022	J5211361.0174
10/31/2022	11/3/2022	J5211361.0175
11/1/2022	1/4/2023	J5211361.0176
11/2/2022	1/4/2023	J5211361.0178
11/3/2022	1/4/2023	J5211361.0179
11/7/2022	11/10/2022	J5211361.0180
11/16/2022	1/4/2023	J5211361.0182
12/28/2022	12/30/2022	J5211361.0185
12/29/2022	1/4/2023	J5211361.0186
12/30/2022	1/3/2023	J5211361.0187
12/31/2022	1/5/2023	J5211361.0188
1/4/2023	1/4/2023	J5211361.0190
1/5/2023	1/13/2023	J5211361.0191
1/6/2023	1/16/2023	J5211361.0192
1/7/2023	1/30/2023	J5211361.0193
1/16/2023	1/17/2023	J5211361.0195
2/8/2023	2/14/2023	J5211361.0197
2/10/2023	2/14/2023	J5211361.0199
2/14/2023	2/15/2023	J5211361.201
2/15/2023	2/17/2023	J5211361.202
3/19/2023	3/19/2023	001
3/20/2023	3/20/2023	002
3/21/2023	3/29/2023	003
4/19/2023	4/19/2023	004
4/20/2023	4/20/2023	005
4/21/2023	4/21/2023	006
4/24/2023	4/24/2023	007
4/26/2023	4/26/2023	008
4/26/2023	4/26/2023	009
4/27/2023	4/27/2023	010

5/5/2023	5/5/2023	011
5/8/2023	5/8/2023	012
5/9/2023	5/9/2023	013
5/10/2023	5/10/2023	014
5/11/2023	5/11/2023	015
5/11/2023	5/11/2023	016
5/12/2023	5/12/2023	017
5/13/2023	5/13/2023	018
5/16/2023	5/16/2023	019
5/17/2023	5/17/2023	020
5/18/2023	5/18/2023	021
5/19/2023	5/19/2023	022
5/22/2023	5/22/2023	023
5/24/2023	5/24/2023	024
5/25/2023	5/25/2023	025
5/25/2023	5/25/2023	026
6/8/2023	6/8/2023	027
6/9/2023	6/9/2023	028
6/19/2023	6/19/2023	029
6/20/2023	6/20/2023	030
6/21/2023	6/21/2023	031
6/22/2023	6/22/2023	032
6/29/2023	6/29/2023	033
6/30/2023	6/30/2023	034
7/6/2023	7/6/2023	035
7/7/2023	7/7/2023	036
7/7/2023	7/7/2023	037
7/8/2023	7/8/2023	038
7/10/2023	7/10/2023	039
7/11/2023	7/11/2023	040
7/11/2023	7/11/2023	041
7/11/2023	7/11/2023	042
7/12/2023	7/12/2023	043
7/12/2023	7/12/2023	044
7/12/2023	7/12/2023	045
7/13/2023	7/13/2023	046
7/13/2023	7/13/2023	047
7/13/2023	7/13/2023	048
7/15/2023	7/15/2023	049
7/15/2023	7/15/2023	050
7/15/2023	7/15/2023	051
7/17/2023	7/17/2023	052
7/18/2023	7/18/2023	053
7/20/2023	7/20/2023	054

7/23/2023	7/23/2023	055
7/24/2023	7/24/2023	056
7/31/2023	7/31/2023	057
8/1/2023	8/1/2023	058
8/1/2023	8/1/2023	059
8/2/2023	8/2/2023	060
8/3/2023	8/3/2023	061
8/7/2023	8/7/2023	062
8/17/2023	8/17/2023	063
8/18/2023	8/18/2023	064
8/19/2023	8/19/2023	065
8/22/2023	8/22/2023	066
9/8/2023	9/8/2023	067
9/14/2023	9/14/2023	068
9/14/2023	9/14/2023	069
9/15/2023	9/15/2023	070
9/15/2023	9/15/2023	071
9/18/2023	9/18/2023	072
9/21/2023	9/21/2023	073
10/2/2023	10/2/2023	074
10/4/2023	10/4/2023	075
10/25/2023	10/25/2023	076
10/27/2023	10/27/2023	077
11/3/2023	11/3/2023	078
11/9/2023	11/9/2023	079
11/9/2023	11/9/2023	080
12/4/2023	12/4/2023	081
12/5/2023	12/5/2023	082
12/15/2023	12/15/2023	083
12/20/2023	12/20/2023	084
12/30/2023	12/30/2023	085
1/22/2024	1/22/2024	086
1/24/2024	1/24/2024	087
1/29/2024	1/29/2024	088
4/1/2024	4/1/2024	089
4/15/2024	4/15/2024	090
4/16/2024	4/16/2024	091
4/18/2024	4/18/2024	092
4/19/2024	4/19/2024	093

FIELD DENSITY TEST REPORT

Report Number: J5211361.0002
Service Date: 11/19/21
Report Date: 11/19/21
Task:

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
Elmira, NY
Project Number: J5211361

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0006	PENDING PROCTOR Item 4 client provided Proctor		7.5	136.0		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	A1 10' pit								
1	center	1st	1	6	144.6	10.8	8.1	133.8	98
2	e	1st	1	6	144.6	12.4	9.4	132.2	97
3	w	1st	1	6	143.2	12.5	9.6	130.7	96
4	s	1st	1	6	142.1	12.1	9.3	130.0	96
5	s	1st	1	6	143.6	11.1	8.4	132.5	97
	A1 10' pit								
6	center	2nd	1	6	143.9	11.5	8.7	132.4	97
7	e	2nd	1	6	143.9	10.9	8.2	133.0	98
8	n	2nd	1	6	144.6	11.2	8.4	133.4	98
9	w	2nd	1	6	144.4	13.0	9.9	131.4	97
10	center	2nd	1	6	143.2	11.3	8.6	131.9	97
11			1		0.0	0.0	0.0		

Datum: client described eleveations
S/N: 70428 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 03/31/2021
Comments: ATL Proctor from 1/202, results pending new proctor.

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor:
Report Distribution:
(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0005
Service Date: 11/20/21
Report Date: 11/22/21
Task:

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
Elmira, NY
Project Number: J5211361

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0006	PENDING PROCTOR Item 4 client provided Proctor		7.5	136.0		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	10ft pit								
1	-7ft	-7ft	1	6	146.9	12.0	8.9	134.9	99
	10ft pit								
2	-7ft	-7ft	1	6	150.5	10.2	7.3	140.3	100+
	10ft								
3	-7ft	-7ft	1	6	147.4	10.0	7.3	137.4	100+
	10ft pit								
4	-7ft	-7ft	1	6	151.2	12.1	8.7	139.1	100+
	10ft								
5	-7ft	-7ft	1	6	147.7	11.6	8.5	136.1	100
	10ft pit								
6	-6ft	-6ft	1	6	143.1	10.5	7.9	132.6	98
	10ft pit								
7	-6ft	-6f5	1	6	145.2	10.4	7.7	134.8	99
	10ft pit								
8	-6ft	-6ft	1	6	145.7	11.4	8.5	134.3	99
	10ft pit								
9	-6ft	-6ft	1	6	143.4	10.1	7.6	133.3	98
	10ft pit								
10	-6ft	-6ft	1	6	146.4	11.2	8.3	135.2	99
	10ft pit								
11	-5ft	-5ft	1	6	143.1	9.5	7.1	133.6	98
	10ft pit								
12	-5ft	-5ft	1	6	144.7	9.3	6.9	135.4	100

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0005
Service Date: 11/20/21
Report Date: 11/22/21
Task:

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
Elmira, NY
Project Number: J5211361

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	10ft pit								
13	-5ft	-5ft	1	6	147.5	9.4	6.8	138.1	100+
	10ft pit								
14	-5ft	-5ft	1	6	145.9	8.5	6.2	137.4	100+
	10ft pit								
15	-5ft	-5ft	1	6	143.4	9.6	7.2	133.8	98
	10ft pit								
16	-4ft	-4ft	1	6	144.8	9.0	6.6	135.8	100
	10ft pit								
17	-4ft	-4ft	1	6	142.0	9.7	7.3	132.3	97
	10ft pit								
18	-4ft	-4ft	1	6	145.8	8.6	6.3	137.2	100+
	10ft pit								
19	-4ft	-4ft	1	6	142.8	8.3	6.2	134.5	99
	10ft pit								
20	-4ft	-4ft	1	6	148.6	8.7	6.2	139.9	100+

Datum: Top of existing grade **Std. Cnt. M:** 467 **Std. Cnt. D:** 2456
S/N: 75757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 01/23/2020
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec Consultants
Contractor:
Report Distribution:
(1) Geosyntec Consultants, Miranda Stelmach (1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0008
Service Date: 11/22/21
Report Date: 11/24/21
Task:

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
Elmira, NY
Project Number: J5211361

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0006	PENDING PROCTOR Item 4 client provided Proctor		7.5	136.0		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	A1 pit								
1	center	6 ft lift	1	6	145.5	11.9	8.9	133.6	98
	"								
2	west	6 ft lift	1	6	142.1	11.4	8.7	130.7	96
	"								
3	west	6 ft lift	1	6	145.2	12.4	9.3	132.8	98
	"								
4	east	6 ft lift	1	6	146.2	11.8	8.8	134.4	99
	"								
5	east	6 fit lift	1	6	143.0	12.4	9.5	130.6	96
	electric conduit repair trench								
6	west of gate	final	1	6	139.3	10.3	8.0	129.0	95
	"								
7	west of gate	final	1	6	141.5	12.4	9.6	129.1	95
	"								
8	east of gate	final	1	6	144.7	9.6	7.1	135.1	99
	"								
9	east of gate	final	1	6	143.3	9.9	7.4	133.4	98
	"								
10	east of gate	final	1	6	144.5	9.7	7.2	134.8	99
	A1 pit								
11	center	7 ft lift	1	6	143.5	12.6	9.6	130.9	96
	"								
12	west	7 ft lift	1	6	143.9	10.3	7.7	133.6	98

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0008
Service Date: 11/22/21
Report Date: 11/24/21
Task:

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
Elmira, NY
Project Number: J5211361

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	"								
13	west	7 ft lift	1	6	141.8	11.5	8.8	130.3	96
	"								
14	east	7 ft lift	1	6	145.8	10.4	7.7	135.4	100
	"								
15	east	7 ft lift	1	6	145.0	11.4	8.5	133.6	98

Datum: elevations provided by client
S/N: 70428 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 03/31/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor:
Report Distribution:
(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0009
Service Date: 11/23/21
Report Date: 11/24/21
Task:

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
Elmira, NY
Project Number: J5211361

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0006	PENDING PROCTOR Item 4 client provided Proctor		7.5	136.0		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	A1 Pit								
1	center	8 ft	1	6	143.0	11.0	8.3	132.0	97
2	east	8 ft	1	6	143.7	10.5	7.9	133.2	98
3	east	8 ft	1	6	141.5	11.2	8.6	130.3	96
4	west	8 ft	1	6	143.8	11.6	8.8	132.2	97
5	west	8 ft	1	6	141.2	12.1	9.4	129.1	95

Datum: client provided elevations
S/N: 70428 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 03/31/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor:
Report Distribution:
(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0010
Service Date: 12/01/21
Report Date: 12/02/21
Task:

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
Elmira, NY
Project Number: J5211361

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0007B	Item 4	ASTM D698	7.4	134.0		
2	J5211361.0007B	Item 4	ASTM D698	7.4	134.0		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	NE A1 pit								
1	center	first lift	1	6	144.9	12.7	9.6	132.2	99
	"								
2	west	first	1	6	143.6	12.5	9.5	131.1	98
	"								
3	north	first	1	6	146.0	13.6	10.3	132.4	99
	"								
4	south	first	1	6	143.7	14.1	10.9	129.6	97
	"								
5	south	first	1	6	142.8	13.3	10.3	129.5	97
	"								
6	center	second lif	1	6	138.8	10.9	8.5	127.9	95
	"								
7	center	second	1	6	138.8	11.2	8.8	127.6	95
	"								
8	west	second	1	6	144.2	11.8	8.9	132.4	99
	"								
9	east	second	1	6	144.8	11.8	8.9	133.0	99
	"								
10	south	second	1	6	143.5	11.6	8.8	131.9	98
	"								
11	center	th liftird	1	6	144.3	12.9	9.8	131.4	98
	"								
12	north	third	1	6	144.1	13.0	9.9	131.1	98

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0010
Service Date: 12/01/21
Report Date: 12/02/21
Task:

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
Elmira, NY
Project Number: J5211361

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	"								
13	south	third	1	6	146.1	13.0	9.8	133.1	99
	"								
14	center	third	1	6	146.3	11.8	8.8	134.5	100
	"								
15	west	third	1	6	146.4	12.2	9.1	134.2	100
	"								
16	center	fourth	1	6	144.5	13.3	10.1	131.2	98
	"								
17	north	fourth	1	6	141.9	13.1	10.2	128.8	96
	"								
18	north	fourth	1	6	140.8	12.9	10.1	127.9	95
	"								
19	west	fourth	1	6	142.0	13.0	10.1	129.0	96
	"								
20	south	fourth	1	6	143.3	11.8	9.0	131.5	98
21	center	fifth	1	6	142.0	11.5	8.8	130.5	97
22	south	fifth	1	6	143.5	11.5	8.7	132.0	99
23	east	fifth	1	6	141.4	11.4	8.8	130.0	97
24	west	fifth	1	6	141.0	11.9	9.2	129.1	96
25	center	fifth	1	6	142.2	11.5	8.8	130.7	98

Datum: one foot lifts from bottom of pit up.
S/N: 70428 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 03/31/2021
Comments:

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0010
Service Date: 12/01/21
Report Date: 12/02/21
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor:
Report Distribution:
(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0011
Service Date: 12/02/21
Report Date: 12/03/21
Task:

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
Elmira, NY
Project Number: J5211361

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0007B	Item 4	ASTM D698	7.4	134.0		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	-5ft pit								
1	-3ft	Lift 1	1	8	146.0	11.2	8.3	134.8	100+
	-5ft pit								
2	-3ft	Lift 1	1	8	145.5	10.0	7.4	135.5	100+
	-5ft pit								
3	-3ft	Lift 1	1	8	146.3	10.7	7.9	135.6	100+
	-5ft pit								
4	-3ft	Lift 1	1	8	148.8	11.7	8.5	137.1	100+
	-5ft pit								
5	-3ft	Lift 1	1	8	147.4	10.9	8.0	136.5	100+
	-5ft pit								
6	-2ft	Lift 2	1	8	149.1	11.6	8.4	137.5	100+
	-5ft pit								
7	-2ft	Lift 2	1	8	147.4	10.5	7.7	136.9	100+
	-5ft pit								
8	-2ft	Lift 2	1	8	141.7	10.9	8.3	130.8	98
	-5ft pit								
9	-2ft	Lift 2	1	8	144.2	11.3	8.5	132.9	99
	-5ft pit								
10	-2ft	Lift 2	1	8	146.1	9.3	6.8	136.8	100+
	-5ft pit								
11	-1ft	Lift 3	1	8	138.1	8.8	6.8	129.3	96
	-5ft pit								
12	-1ft	Lift 3	1	8	147.6	10.8	7.9	136.8	100+
	-5ft pit								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0011
Service Date: 12/02/21
Report Date: 12/03/21
Task:

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
Elmira, NY
Project Number: J5211361

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
13	-1ft	Lift 3	1	8	145.4	11.4	8.5	134.0	100
	-5ft pit								
14	-1ft	Lift 3	1	8	146.1	11.2	8.3	134.9	100+
	-5ft pit								
15	-1ft	Lift 3	1	8	143.6	9.8	7.3	133.8	100
	-5ft pit								
16	0ft	Lift 4	1	8	146.3	10.7	7.9	135.6	100+
	Lift 4								
17	0ft	Lift 4	1	8	146.0	8.5	6.2	137.5	100+
	-5ft pit								
18	0ft	Lift 4	1	8	145.4	8.9	6.5	136.5	100+
	-5ft pit								
19	0ft	Lift 4	1	8	146.0	12.2	9.1	133.8	100
	-5ft pit								
20	0ft	Lift 4	1	8	146.2	9.3	6.8	136.9	100+

Datum: Top of existing grade **Std. Cnt. M:** 423 **Std. Cnt. D:** 2452
S/N: 75757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 01/23/2020
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec Consultants
Contractor:
Report Distribution:
(1) Geosyntec Consultants, Miranda Stelmach (1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0012
Service Date: 12/08/21
Report Date: 12/13/21
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0007B	Item 4	ASTM D698	7.4	134.0		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 1 Northwest								
1	east	-2.5'	1	6	146.1	11.6	8.6	134.5	100
	Area 1 Northwest								
2	west	-2.5'	1	6	146.6	12.6	9.4	134.0	100
	Area 1 Northwest								
3	north	-2.5'	1	6	143.2	11.2	8.5	132.0	99
	Area 1 Northwest								
4	center	-2.5'	1	6	144.1	12.7	9.7	131.4	98
	Area 1 Northwest								
5	center	-2.5'	1	6	146.3	11.7	8.7	134.6	100

Datum: elev. provided by contractor, from final elev.
S/N: 70428 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 03/31/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor:
Report Distribution:
(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0013
Service Date: 12/09/21
Report Date: 12/13/21
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0007B	Item 4	ASTM D698	7.4	134.0		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area A1								
1	-1.5ft North East Section	Lift 1	1	8	141.6	12.9	10.0	128.7	96
	Area A1								
2	-1.5ft North East Section	Lift 1	1	8	144.8	12.6	9.5	132.2	99
	Area A1								
3	-1.5ft / North East Section	Lift 1	1	8	143.9	12.7	9.7	131.2	98
	Area A1								
4	-1.5ft / North East Section	Lift 1	1	8	142.8	10.8	8.2	132.0	99
	Area 1								
5	-1.5ft / North East Section	Lift 1	1	8	146.8	13.1	9.8	133.7	100
	Area 1								
6	-1.5ft / East South East Section	Lift 1	1	8	145.5	13.5	10.2	132.0	99
	Area 1								
7	-1.5ft / East South East Section	Lift 1	1	8	144.1	12.3	9.3	131.8	98
	Area 1								
8	-1.5ft / East South East Section	Lift 1	1	8	144.2	12.9	9.8	131.3	98
	Area 1								
9	-1.5ft / East South East Section	Lift 1	1	8	144.7	13.4	10.2	131.3	98
	Area 1								
10	-1.5ft / East South East Section	Lift 1	1	8	144.3	12.8	9.7	131.5	98
	Area 1								
11	-1.5ft / North East Center	Lift 1	1	8	143.4	12.4	9.5	131.0	98
	Area 1								
12	-1.5ft / North East Center	Lift 1	1	8	148.7	12.4	9.1	136.3	100+
	Area 1								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0013
Service Date: 12/09/21
Report Date: 12/13/21
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
13	-1.5ft / North East Center	Lift 1	1	8	144.7	12.4	9.4	132.3	99
	Area 1								
14	-1.5ft / North East Center	Lift 1	1	8	138.4	9.5	7.4	128.9	96
	Area 1								
15	-1.5ft / North East Center	Lift 1	1	8	146.1	13.3	10.0	132.8	99
	Area 1								
16	-1.5ft / Center South	Lift 1	1	8	139.3	10.0	7.7	129.3	96
	Area 1								
17	-1.5ft / Center South	Lift 1	1	8	141.6	12.8	9.9	128.8	96
	Area 1								
18	-1.5ft / Center South	Lift 1	1	8	142.9	12.0	9.2	130.9	98
	Area 1								
19	-1.5ft / Center South	Lift 1	1	8	146.4	11.5	8.5	134.9	100+
	Area 1								
20	-1.5ft / Center South	Lift 1	1	8	146.5	9.8	7.2	136.7	100+
	Area 1								
21	-1.5ft / North East Corner	Lift 1	1	8	139.6	11.9	9.3	127.7	95
	Area 1								
22	-1.5ft / North East Corner	Lift 1	1	8	148.5	11.1	8.1	137.4	100+
	Area 1								
23	-1.5ft / North East Corner	Lift 1	1	8	147.5	11.2	8.2	136.3	100+
	Area 1								
24	-1.5ft / North East Corner	Lift 1	1	8	144.3	11.3	8.5	133.0	99
	Area 1								
25	-1.5ft / North East Corner	Lift 1	1	8	145.1	13.1	9.9	132.0	99
	Area 1								
26	-2.5ft / South East Corner	Lift 1	1	8	140.7	10.7	8.2	130.0	97
	Area 1								
27	-2.5ft / South East Corner	Lift 1	1	8	140.0	9.6	7.4	130.4	97
	Area 1								
28	-2.5ft / South East Corner	Lift 1	1	8	141.7	10.6	8.1	131.1	98

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0013
Service Date: 12/09/21
Report Date: 12/13/21
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 1								
29	-2.5ft / South East Corner	Lift 1	1	8	144.1	12.0	9.1	132.1	99
	Area 1								
30	-2.5ft / South East Corner	Lift 1	1	8	142.4	11.4	8.7	131.0	98
	Area 1								
31	-2.5ft / South East Corner	Lift 2	1	8	144.5	11.3	8.5	133.2	99
	Area 1								
32	-2.5ft / South East Corner	Lift 2	1	8	144.2	8.4	6.2	135.8	100+
	Area 1								
33	-2.5ft / South East Corner	Lift 2	1	8	143.8	9.8	7.3	134.0	100
	Area 1								
34	-2.5ft / South East Corner	Lift 2	1	8	145.7	10.0	7.4	135.7	100+
	Area 1								
35	-2.5ft / South East Corner	Lift 2	1	8	145.7	10.2	7.5	135.5	100+
	Area 1								
36	-3.5ft / South West Pit	Lift 1	1	8	142.0	10.8	8.2	131.2	98
	Area 1								
37	-3.5ft / South West Pit	Lift 1	1	8	138.7	9.1	7.0	129.6	97
	Area 1								
38	-3.5ft / South West Pit	Lift 1	1	8	150.2	11.4	8.2	138.8	100+
	Area 1								
39	-3.5ft / South West Pit	Lift 1	1	8	137.8	9.0	7.0	128.8	96
	Area 1								
40	-3.5ft / South West Pit	Lift 1	1	8	144.3	11.3	8.5	133.0	99
	Area 1								
41	-2.5ft / South West Pit	Lift 2	1	8	135.1	7.8	6.1	127.3	95
	Area 1								
42	-3.5ft / South West Pit	Lift 2	1	8	142.8	10.5	7.9	132.3	99
	Area 1								
43	-3.5ft / South West Pit	Lift 2	1	8	144.1	10.7	8.0	133.4	100

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0013
Service Date: 12/09/21
Report Date: 12/13/21
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 1								
44	-3.5ft / South West Pit	Lift 2	1	8	138.9	10.3	8.0	128.6	96
	Area 1								
45	-3.5ft / South West Pit	Lift 2	1	8	144.5	9.8	7.3	134.7	100+

Datum: Top of existing grade **Std. Cnt. M:** 359 **Std. Cnt. D:** 2459
S/N: 75757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 01/23/2020
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec
Contractor:
Report Distribution:
(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0014
Service Date: 12/10/21
Report Date: 12/14/21
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0007B	Item 4	ASTM D698	7.4	134.0		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 1								
1	-.5ft / North East Corner	Lift 2	1	8	139.1	9.2	7.1	129.9	97
	Area 1								
2	-.5ft / North East Corner	Lift 2	1	8	137.0	9.1	7.1	127.9	95
	Area 1								
3	-.5ft / North East Corner	Lift 2	1	8	135.1	7.8	6.1	127.3	95
	Area 1								
4	-.5ft / North East Corner	Lift 2	1	8	142.4	10.4	7.9	132.0	99
	Area 1								
5	-.5ft / North East Corner	Lift 2	1	8	139.2	10.2	7.9	129.0	96
	Area 1								
6	-1.5ft / South West Pit	Lift 3	1	8	138.2	10.0	7.8	128.2	96
	Area 1								
7	-1.5ft / South West Pit	Lift 3	1	8	139.2	10.7	8.3	128.5	96
	Area 1								
8	-1.5ft / South West Pit	Lift 3	1	8	141.7	10.0	7.6	131.7	98
	Area 1								
9	-1.5ft / South West Pit	Lift 3	1	8	140.1	10.4	8.0	129.7	97
	Area 1								
10	-1.5ft / South West Pit	Lift 3	1	8	141.0	10.9	8.4	130.1	97
	Area 1								
11	-1.5ft / South East Corner	Lift 2	1	8	141.8	12.3	9.5	129.5	97
	Area 1								
12	-1.5ft / South East Corner	Lift 2	1	8	140.7	11.1	8.6	129.6	97
	Area 1								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0014
Service Date: 12/10/21
Report Date: 12/14/21
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
13	-1.5ft / South East Corner	Lift 2	1	8	138.9	11.1	8.7	127.8	95
	Area 1								
14	-1.5ft / South East Corner	Lift 2	1	8	137.4	10.3	8.1	127.1	95
	Area 1								
15	-1.5ft / South East Corner	Lift 2	1	8	137.9	10.8	8.5	127.1	95
	Area 1								
16	-1.5ft / center	Lift 2	1	8	140.0	10.6	8.2	129.4	97
	Area 1								
17	-1.5ft / center	Lift 2	1	8	140.0	11.2	8.7	128.8	96
	Area 1								
18	-1.5ft / center	Lift 2	1	8	138.4	10.0	7.8	128.4	96
	Area 1								
19	-1.5ft / center	Lift 2	1	8	140.1	11.2	8.7	128.9	96
	Area 1								
20	-1.5ft / center	Lift 2	1	8	140.4	11.2	8.7	129.2	96

Datum: Top of existing grade **Std. Cnt. M:** 681 **Std. Cnt. D:** 2281
S/N: 74112 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/26/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec Consultants
Contractor:
Report Distribution:
(1) Geosyntec Consultants, Miranda Stelmach (1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0015
Service Date: 12/14/21
Report Date: 12/15/21
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0007B	Item 4	ASTM D698	7.4	134.0		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 1								
1	-.5ft / Center West	Lift 1	1	8	140.5	10.5	8.1	130.0	97
	Area 1								
2	-.5ft / Center West	Lift 1	1	8	138.5	11.2	8.8	127.3	95
	Area 1								
3	-.5ft / Center West	Lift 1	1	8	136.4	9.3	7.3	127.1	95
	Area 1								
4	-.5ft / Center	Lift 1	1	8	137.8	10.3	8.1	127.5	95
	Area 1								
5	-.5ft / East	Lift 1	1	8	137.4	9.8	7.7	127.6	95
	Area 1								
6	-.5ft / North	Lift 1	1	8	142.4	12.0	9.2	130.4	97
	Area 1								
7	-.5ft / Center West	Lift 1	1	8	136.0	8.9	7.0	127.1	95
	Area 1								
8	-.5ft / Center	Lift 1	1	8	137.5	10.2	8.0	127.3	95
	Area 1								
9	- 6ft / Dry well 1	Lift 1	1	8	139.0	11.8	9.3	127.2	95
	Area 1								
10	- 6ft / Dry well 2	Lift 1	1	8	138.5	11.2	8.8	127.3	95
	Area 1								
11	- 5ft / Dry well 1	Lift 2	1	8	138.8	11.5	9.0	127.3	95
	Area 1								
12	- 5ft / Dry well 2	Lift 2	1	8	137.0	9.4	7.4	127.6	95
	Area 1								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0015
Service Date: 12/14/21
Report Date: 12/15/21
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
13	- 4ft / Dry well 1	Lift 3	1	8	140.0	11.1	8.6	128.9	96
	Area 1								
14	- 4ft / Dry well 2	Lift 3	1	8	137.7	9.8	7.7	127.9	95
	Area 1								
15	- 3ft / Dry well 1	Lift 4	1	8	138.7	11.6	9.1	127.1	95
	Area 1								
16	- 3ft / Dry well 2	Lift 4	1	8	137.9	10.6	8.3	127.3	95
	Area 1								
17	- 2ft / Dry well 1	Lift 5	1	8	140.0	11.0	8.5	129.0	96
	Area 1								
18	- 2ft / Dry well 2	Lift 5	1	8	138.7	10.2	7.9	128.5	96

Datum: Top of existing grade **Std. Cnt. M:** 2281 **Std. Cnt. D:** 727
S/N: 74112 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/26/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec Consultants
Contractor:
Report Distribution:
(1) Geosyntec Consultants, Miranda Stelmach (1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0016
Service Date: 12/15/21
Report Date: 12/21/21
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0007B	Item 4	ASTM D698	7.4	134.0		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	**Area 1** - 1ft / Dry well 1	Lift 6	1	8	138.1	10.9	8.6	127.2	95
2	**Area 1** - 1ft / Dry well 2	Lift 6	1	8	138.3	10.4	8.1	127.9	95
3	**Area 1** -1.5ft / center west	Lift 2	1	8	138.4	10.1	7.9	128.3	96
4	**Area 1** -1.5ft / center west	Lift 1	1	8	136.7	9.5	7.5	127.2	95
5	**Area 1** -1.5ft / center west	Lift 1	1	8	140.4	11.1	8.6	129.3	96
6	**Area 1** -1.5ft / center west	Lift 1	1	8	136.8	9.5	7.5	127.3	95
7	**Area 1** -1.5ft / center west	Lift 1	1	8	140.5	10.0	7.7	130.5	97
8	**Area 1** - .5ft / center west	Lift 2	1	8	140.5	10.0	7.7	130.5	97
9	**Area 1** -.5ft / center west	Lift 2	1	8	137.9	9.5	7.4	128.4	96
10	**Area 1** -.5ft / center west	Lift 2	1	8	138.3	8.9	6.9	129.4	97
11	**Area 1** -.5ft / center west	Lift 2	1	8	136.7	9.5	7.5	127.2	95
12	**Area 1** -.5ft / center west	Lift 2	1	8	138.3	9.8	7.6	128.5	96

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0016
Service Date: 12/15/21
Report Date: 12/21/21
Task:

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

Datum: Top of existing grade **Std. Cnt. M:** 728 **Std. Cnt. D:** 2275
S/N: 74112 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/26/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec Consultants
Contractor:
Report Distribution:
(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0018
Service Date: 12/21/21
Report Date: 12/27/21
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0007B	Item 4	ASTM D698	7.4	134.0		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 1								
1	-1ft / South West Corner	Lift 1	1	8	136.0	8.5	6.7	127.5	95
	Area 1								
2	-1ft / South West Corner	Lift 1	1	8	137.1	9.7	7.6	127.4	95
	Area 1								
3	-1ft / South West Corner	Lift 1	1	8	137.9	9.6	7.5	128.3	96
	Area 1								
4	-1ft / South West Corner	Lift 1	1	8	137.9	9.6	7.5	128.3	96
	Area 1								
5	-1ft / South West Corner	Lift 1	1	8	138.2	9.3	7.2	128.9	96
	Area 1								
6	-1ft / center south near fence	Lift 1	1	8	143.6	9.4	7.0	134.2	100
	Area 1								
7	-5ft / drywell 3	Lift 1	1	8	137.8	9.4	7.3	128.4	96
	Area 1								
8	-1ft / North East Corner	Lift 1	1	8	138.1	10.7	8.4	127.4	95
	Area 1								
9	-1ft / North East Corner	Lift 1	1	8	140.0	9.6	7.4	130.4	97
	Area 1								
10	-1ft / North East Corner	Lift 1	1	8	142.1	10.0	7.6	132.1	99
	Area 1								
11	-1ft / North East Corner	Lift 1	1	8	141.1	10.2	7.8	130.9	98
	Area 1								
12	-1ft / North East Corner	Lift 1	1	8	142.1	10.0	7.6	132.1	99
	Area 1								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0018
Service Date: 12/21/21
Report Date: 12/27/21
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
13	-4ft / Dry well 3	Lift 2	1	8	138.5	11.2	8.8	127.3	95
	Ares 1								
14	-3ft / Drywell 3	Lift 3	1	8	138.8	10.4	8.1	128.4	96
	Area 1								
15	-2ft / Drywell 3	Lift 4	1	8	135.5	8.3	6.5	127.2	95
	Area 1								
16	-1ft / Drywell 3	Lift 5	1	8	138.1	7.8	6.0	130.3	97
	Area 1								
17	-0ft / Drywell 3	Lift 6	1	8	141.8	9.9	7.5	131.9	98
	Area 1								
18	-0ft / South near fence	Lift 2	1	8	140.7	11.1	8.6	129.6	97
	Area 1								
19	-0ft / South near fence	Lift 2	1	8	140.5	10.8	8.3	129.7	97
	Area 1								
20	-0ft / South near fence	Lift 2	1	8	139.6	10.2	7.9	129.4	97
	Area 1								
21	-0ft / South near fence	Lift 2	1	8	137.5	10.4	8.2	127.1	95
	Area 1								
22	-0ft / South near fence	Lift 2	1	8	141.2	10.0	7.6	131.2	98

Datum: Top of existing grade **Std. Cnt. M:** 677 **Std. Cnt. D:** 2267
S/N: 74112 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/26/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0018
Service Date: 12/21/21
Report Date: 12/27/21
Task:

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec
Contractor:
Report Distribution:
(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0019
Service Date: 12/22/21
Report Date: 03/10/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0007B	Item 4	ASTM D698	7.4	134.0		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 1								
1	South East section	Lift1/-1ft	1	8	142.0	10.8	8.2	131.2	98
	Are 1								
2	South East section	Lift1/-1ft	1	8	142.7	10.0	7.5	132.7	99
	Area 1								
3	South East section	Lift1/-1ft	1	8	140.2	9.7	7.4	130.5	97
	Area 1								
4	South East section	Lift1/-1ft	1	8	138.3	10.5	8.2	127.8	95
	Area 1								
5	South East section	Lift1/-1ft	1	8	135.4	8.0	6.3	127.4	95
	Area 1								
6	North East corner	Lift1/-2ft	1	8	138.9	9.2	7.1	129.7	97
	Area 1								
7	North East corner	Lift1/-2ft	1	8	142.1	10.5	8.0	131.6	98
	Area 1								
8	North East corner	Lift1/-2ft	1	8	144.1	10.8	8.1	133.3	99
	North East corner								
9	Area 1	Lift1/-2ft	1	8	141.2	9.5	7.2	131.7	98
	Area 1								
10	North East corner	Lift1/-2ft	1	8	142.3	10.4	7.9	131.9	98
	Area 1								
11	South East section	Lift2/0ft	1	8	137.5	9.0	7.0	128.5	96
	Area 1								
12	South East section	Lift2/0ft	1	8	137.8	10.4	8.2	127.4	95
	Area 1								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0019
Service Date: 12/22/21
Report Date: 03/10/22
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
13	South East section	Lift2/0ft	1	8	139.9	10.1	7.8	129.8	97
	Area 1								
14	South East section	Lift2/0ft	1	8	136.7	9.1	7.1	127.6	95
	Area 1								
15	South East section	Lift2/1ft	1	8	136.5	8.3	6.5	128.2	96
	Area 1								
16	South section	Lift1/ 0ft	1	8	137.3	8.9	6.9	128.4	96
	Area 1								
17	South section	Lift 1/0ft	1	8	139.7	10.8	8.4	128.9	96
	Area 1								
18	South section	Lift 1	1	8	139.7	9.9	7.6	129.8	97
	Area 1								
19	South section	Lift 1/0ft	1	8	141.0	11.5	8.9	129.5	97
	Area 1								
20	South section	Lift1 /0ft	1	8	137.7	10.3	8.1	127.4	95
	Area 1								
21	West section	Lift1/ 0ft	1	8	136.5	8.9	7.0	127.6	95
	Area 1								
22	West sectiob	Lift1/ 0ft	1	8	138.1	10.2	8.0	127.9	95
	Area 1								
23	West section	Lift1/ 0ft	1	8	137.6	10.4	8.2	127.2	95
	Area 1								
24	West section	Lift1/ 0ft	1	8	139.0	11.4	8.9	127.6	95
	Area 1								
25	West section	Lift1/ 0ft	1	8	138.0	10.7	8.4	127.3	95

Datum: Top of existing grade **Std. Cnt. M:** 652 **Std. Cnt. D:** 2450
S/N: 70546 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/31/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0019
Service Date: 12/22/21
Report Date: 03/10/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec
Contractor:
Report Distribution:
(1) Geosyntec Consultants, Miranda Stelmach
(1) Geosyntec Consultants, Aron Krasnopoler
(1) Geosyntec Consultants, Brian Harris

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0061
Service Date: 04/26/22
Report Date: 04/27/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049V	PENNDOT Approved Material	ASTM D698	6.7	137.2		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	A1- A6								
1	North	1	1	6	141.9	9.0	6.8	132.9	97
2	South	1	1	6	148.4	9.2	6.6	139.2	100+
3	East	1	1	6	144.9	9.5	7.0	135.4	99
4	West	1	1	6	149.1	8.4	6.0	140.7	100+
5	Center	1	1	6	148.1	8.9	6.4	139.2	100+
6	North	2	1	6	140.0	8.4	6.4	131.6	96
7	South	2	1	6	147.2	9.9	7.2	137.3	100
8	East	2	1	6	145.9	10.7	7.9	135.2	99
9	West	2	1	6	144.9	9.0	6.6	135.9	99
10	Center	2	1	6	144.7	10.6	7.9	134.1	98
11	North	3	1	6	141.6	8.9	6.7	132.7	97
12	South	3	1	6	141.2	8.2	6.2	133.0	97
13	East	3	1	6	145.7	10.8	8.0	134.9	98
14	West	3	1	6	145.4	10.9	8.1	134.5	98
15	Center	3	1	6	146.1	11.1	8.2	135.0	98

Datum: Final grade **Std. Cnt. M:** 755 **Std. Cnt. D:** 2428
S/N: 74112 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/26/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To: Brian with Geosyntec Consultants
Contractor: Recon
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: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0062
Service Date: 04/27/22
Report Date: 06/01/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0047B	PENNDOT Approved Material	ASTM D698	7.2	135.7		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 1								
1	SE corner	Lift 1	1	6	142.3	10.2	7.7	132.1	97
	Area 1								
2	SE corner	Lift 2	1	6	141.3	9.4	7.1	131.9	97
	Area 1								
3	SE corner	Lift 2	1	6	139.6	9.0	6.9	130.6	96
	Area 1								
4	SE corner	Lift 2	1	6	141.4	9.6	7.3	131.8	97
	Area 1								
5	SE corner	Lift 2	1	6	140.2	9.7	7.4	130.5	96
	Area 1								
6	SE corner	Lift 2	1	6	139.5	8.9	6.8	130.6	96
	Area 1								
7	SE corner	Lift 3	1	6	141.2	9.1	6.9	132.1	97
	Area 1								
8	SE corner	Lift 3	1	6	144.0	9.7	7.2	134.3	99
	Area 1								
9	SE corner	Lift 3	1	6	142.5	9.7	7.3	132.8	98
	Area 1								
10	SE corner	Lift 3	1	6	143.2	9.7	7.3	133.5	98
	Area 1								
11	SE corner	Lift 3	1	6	140.9	9.6	7.3	131.3	97
	Area 1								
12	SE corner	Lift 4	1	6	143.5	10.4	7.8	133.1	98
	Area 1								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0062
Service Date: 04/27/22
Report Date: 06/01/22
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
13	SE corner	Lift 3	1	6	141.3	9.7	7.4	131.6	97
	Area 1								
14	SE corner	Lift 4	1	6	140.0	9.3	7.1	130.7	96
	Area 1								
15	SE corner	Lift 4	1	6	140.5	9.6	7.3	130.9	96
	Area 1								
16	SE corner	Lift 4	1	6	143.9	10.2	7.6	133.7	99

Datum: Top of existing grade **Std. Cnt. M:** 752 **Std. Cnt. D:** 2706
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec and Recon
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0063
Service Date: 04/28/22
Report Date: 05/04/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049B	PENNDOT Approved Material, Sample #2	ASTM D698	6.9	135.6		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	North East corner								
1	North East corner of test area	Lift 1	1	6	133.9	5.4	4.2	128.5	95
	North East corner								
2	-6ft	Lift 1	1	6	133.9	5.0	3.9	128.9	95
	North East corner								
3	-6ft	Lift 1	1	6	140.3	7.2	5.4	133.1	98
	North East corner								
4	-6ft	Lift 1	1	6	137.5	9.2	7.2	128.3	95
	North East corner								
5	-6ft	Lift 1	1	6	142.3	7.5	5.6	134.8	99
	North East corner								
6	-7ft	Lift 1	1	6	182.2	53.9	42.0	128.3	95
	North East corner								
7	-5ft	Lift 2	1	6	135.6	5.5	4.2	130.1	96
	North East corner								
8	-4ft	Lift 3	1	6	145.1	9.5	7.0	135.6	100
	North East corner								
9	-4ft	Lift 3	1	6	141.7	9.3	7.0	132.4	98
	North East corner								
10	-3ft	Lift 3	1	6	144.5	8.4	6.2	136.1	100
	North East corner								
11	-5ft	Lift 2	1	6	141.9	7.9	5.9	134.0	99
	North East corner								
12	- 4ft	Lift 2	1	6	134.4	6.0	4.7	128.4	95

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0063
Service Date: 04/28/22
Report Date: 05/04/22
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	North East corner								
13	-4ft	Lift 2	1	6	136.7	6.5	5.0	130.2	96
	North East corner								
14	-3ft	Lift 3	1	6	134.2	5.3	4.1	128.9	95
	North East corner								
15	-3ft	Lift 3	1	6	137.6	8.6	6.7	129.0	95
	North East corner								
16	-4ft	Lift 3	1	6	136.3	7.2	5.6	129.1	95
	North East corner								
17	-4ft	Lift 3	1	6	137.8	6.2	4.7	131.6	97
	North East corner								
18	-3ft	Lift 3	1	6	137.7	7.4	5.7	130.3	96
	North East corner								
19	-2ft	Lift 3	1	6	139.4	7.4	5.6	132.0	97
	North East corner								
20	-2ft	Lift 3	1	6	137.3	7.3	5.6	130.0	96
	North East corner								
21	-3ft	Lift 4	1	6	137.1	6.0	4.6	131.1	97
	North East corner								
22	-3ft	Lift 4	1	6	144.1	8.3	6.1	135.8	100
	North East corner								
23	-2ft	Lift 4	1	6	139.6	9.0	6.9	130.6	96

Datum: Top of existing grade **Std. Cnt. M:** 2719 **Std. Cnt. D:** 763
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0063
Service Date: 04/28/22
Report Date: 05/04/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: Onsite Representatives of Geosyntec
Contractor: Recon
Report Distribution:

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

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0064
Service Date: 04/29/22
Report Date: 05/04/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049D	PENNDOT Approved Material, Sample #3	ASTM D698	7.1	137.1		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
23	**North East corner** -2ft	Lift 5	1	6	140.8	7.6	5.7	133.2	97
24	**North East corner** -2ft	Lift 5	1	6	146.1	8.0	5.8	138.1	100+
25	**North East corner** -2ft	Lift 5	1	6	138.3	5.4	4.1	132.9	97
26	**North East corner** -2ft	Lift 6	1	6	135.8	5.7	4.4	130.1	95
27	**North East c** -2ft	Lift 6	1	6	137.4	5.9	4.5	131.5	96
28	**North East corner** -2ft	Lift 6	1	6	137.9	4.8	3.6	133.1	97
29	**North East corner** -2ft	Lift 6	1	6	139.1	5.6	4.2	133.5	97
30	**North East corner** -2ft	Lift 6	1	6	136.1	5.6	4.3	130.5	95
31	**North East corner** -1ft	Lift 6	1	6	136.5	5.6	4.3	130.9	95
32	**North East corner** -1ft	Lift 7	1	6	136.2	5.1	3.9	131.1	96
33	**North East corner** -1ft	Lift 7	1	6	139.3	6.1	4.6	133.2	97
34	**North East corner** -1ft	Lift 7	1	6	136.6	5.4	4.1	131.2	96

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0064
Service Date: 04/29/22
Report Date: 05/04/22
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	North East corner								
35	-1ft	Lift 7	1	6	136.2	5.1	3.9	131.1	96
	North East corner								
36	-0ft	Lift 8	1	6	136.4	5.9	4.5	130.5	95
	North East corner								
37	-0ft	Lift 8	1	6	135.1	4.8	3.7	130.3	95
	North East corner								
38	-0ft	Lift 8	1	6	138.8	6.0	4.5	132.8	97
	North East corner								
39	-0ft	Lift 8	1	6	136.0	5.9	4.5	130.1	95
	North East corner								
40	-0ft	Lift 8	1	6	137.4	5.0	3.8	132.4	97

Datum: Top of existing grade **Std. Cnt. M:** 765 **Std. Cnt. D:** 2718
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec
Contractor: Recon
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: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0065
Service Date: 05/02/22
Report Date: 05/06/22 Revision 1 - Label
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049F	PENNDOT Approved Material, Sample 4	ASTM D698	8.2	136.4		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	**east railspur** south	-38"	1	6	136.3	5.0	3.8	131.3	96
2	**east railspur** south	-38"	1	6	137.8	5.8	4.4	132.0	97
3	**east railspur** center	-38"	1	6	138.5	5.5	4.1	133.0	98
4	**east railspur** north	-38"	1	6	138.3	5.4	4.1	132.9	97
5	**east railspur** north	-38"	1	6	140.3	5.5	4.1	134.8	99
6	**east railspur** south	-30"	1	6	138.3	5.3	4.0	133.0	98
7	**east railspur** south	-30"	1	6	135.9	5.5	4.2	130.4	96
8	**east railspur** center	-30"	1	6	137.3	5.3	4.0	132.0	97
9	**east railspur** north	-30"	1	6	138.1	5.2	3.9	132.9	97
10	**east railspur** north	-30"	1	6	139.4	5.6	4.2	133.8	98

Datum: see GPS log for data; lift./Elev. from top of grad
S/N: 70111 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 02/04/2022
Comments:

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0065
Service Date: 05/02/22
Report Date: 05/06/22 Revision 1 - Label
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0070
Service Date: 05/11/22
Report Date: 05/16/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0053R	NYSDOT Approved Material	ASTM D698	6.5	135.5		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Large pit								
1	-12ft	Lift 1	1	6	135.7	5.6	4.3	130.1	96
2	-12ft	Lift 1	1	6	136.0	5.6	4.3	130.4	96
3	-12ft	Lift 1	1	6	135.9	5.1	3.9	130.8	97
4	-12ft	Lift 1	1	6	136.3	6.1	4.7	130.2	96
5	-12ft	Lift 1	1	6	136.6	6.1	4.7	130.5	96

Datum: Top of existing grade **Std. Cnt. M:** 766 **Std. Cnt. D:** 2728
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: Onsite Representatives of Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0072
Service Date: 05/13/22
Report Date: 05/19/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0069B	#57 Stone mixed with Item 4	ASTM D698	5.4	143.1		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Southwest main hole								
1	1	2	1	6	147.2	8.2	5.9	139.0	97
	Southwest main hole								
2	2	2	1	6	145.6	7.1	5.1	138.5	97
	Southwest main hole								
3	3	2	1	6	147.2	7.1	5.1	140.1	98
	Southwest main hole								
4	4	2	1	6	146.8	7.3	5.2	139.5	97
	Southwest main hole								
5	5	2	1	6	144.7	7.9	5.8	136.8	96
	Southwest main hole								
6	1	3	1	6	142.9	6.4	4.7	136.5	95
	Southwest main hole								
7	2	3	1	6	145.3	8.4	6.1	136.9	96
	Southwest main hole								
8	3	3	1	6	144.5	6.9	5.0	137.6	96
	Southwest main hole								
9	4	3	1	6	144.4	6.9	5.0	137.5	96
	Southwest main hole								
10	5	3	1	6	145.4	9.8	7.2	135.6	95

Datum: Final grade **Std. Cnt. M:** 725 **Std. Cnt. D:** 2453
S/N: 75757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 01/23/2020
Comments:

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0072
Service Date: 05/13/22
Report Date: 05/19/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To: Miranda with Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0073
Service Date: 05/16/22
Report Date: 05/24/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049J	PENNDOT Approved Material	ASTM D698	7.7	137.3		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	Area 2	Lift 1	1	6	145.5	8.5	6.2	137.0	100
2	Area 2	Lift 1	1	6	145.6	7.5	5.4	138.1	100+
3	Area 2	Lift 1	1	6	145.5	8.1	5.9	137.4	100
4	Area 2	Lift 1	1	6	143.5	7.5	5.5	136.0	99
5	Area 2	Lift 1	1	6	141.8	7.4	5.5	134.4	98

Datum: Top of existing grade **Std. Cnt. M:** 778 **Std. Cnt. D:** 2591
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0074
Service Date: 05/17/22
Report Date: 06/08/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049B	PENNDOT Approved Material, Sample #2	ASTM D698	6.9	135.6		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	Area 2	lift 1	1	6	144.5	10.8	8.1	133.7	99
2	Area 2	lift 1	1	6	145.3	9.4	6.9	135.9	100
3	Area 2	lift 1	1	6	145.4	11.6	8.7	133.8	99
4	Area 2	lift 1	1	6	144.6	9.3	6.9	135.3	100
5	Area 2	lift 1	1	6	141.4	10.0	7.6	131.4	97

Datum: top of existing grade **Std. Cnt. M:** 727 **Std. Cnt. D:** 2711
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0076
Service Date: 05/20/22
Report Date: 05/25/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049L	PENNDOT Approved Material, Sample 7	ASTM D698	6.1	138.2		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 2 East half								
1	Area 2	Lift 1	1	6	144.3	12.9	9.8	131.4	95
2	Area 2 East half	Lift 1	1	6	146.6	12.1	9.0	134.5	97
3	Area 2 East half	Lift 1	1	6	147.0	11.5	8.5	135.5	98
4	Area 2 East half	Lift 1	1	6	146.9	10.8	7.9	136.1	98
5	Area 2 East half	Lift 1	1	6	149.7	11.2	8.1	138.5	100
6	Area 2 West half	Lift 1	1	6	146.2	10.7	7.9	135.5	98
7	Area 2 West half	Lift 1	1	6	148.7	11.5	8.4	137.2	99
8	Area 2 West half	Lift 1	1	6	148.3	10.9	7.9	137.4	99
9	Area 2 West half	Lift 1	1	6	148.7	12.0	8.8	136.7	99
10	Area 2 West half	Lift 1	1	6	149.0	10.9	7.9	138.1	100

Datum: Top of existing grade **Std. Cnt. M:** 748 **Std. Cnt. D:** 2504
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0077
Service Date: 05/21/22
Report Date: 05/25/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049L	PENNDOT Approved Material, Sample 7	ASTM D698	6.1	138.2		Min 95
2	J5211361.0049L	PENNDOT Approved Material, Sample 7	ASTM D698	6.1	138.2	Max 18.1	Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
11	Area 2 south half	Lift 2	1	6	138.9	6.5	4.9	132.4	96
12	Area 2 South Half	Lift 2	1	6	139.7	6.8	5.1	132.9	96
13	Area 2 South half	Lift 1	1	6	142.6	10.1	7.6	132.5	96
14	Area 2 South half	Lift 1	1	6	144.3	8.7	6.4	135.6	98
15	Area 2	Lift 2	1	6	142.0	9.9	7.5	132.1	96
16	Area 2 North half	Lift 2	1	6	139.9	7.3	5.5	132.6	96
17	Area 2 North Half	Lift 2	1	6	141.8	6.6	4.9	135.2	98
18	Area 2 North half	Lift 1	1	6	138.2	6.3	4.8	131.9	95
19	Area 2 North half	Lift 2	1	6	140.7	7.1	5.3	133.6	97
20	Area 2 North half	Lift 2	1	6	143.2	7.5	5.5	135.7	98
21	Area 2 South half	Lift 3	1	6	142.3	7.2	5.3	135.1	98
22	Area 2 South half	Lift 3	1	6	140.9	5.3	3.9	135.6	98
23	Area 2 South half	Lift 3	1	6	137.0	5.9	4.5	131.1	95
24	Area 2 South half	Lift 3	1	6	138.1	5.7	4.3	132.4	96
25	Area 2 South half	Lift 3	1	6	137.6	5.9	4.5	131.7	95
26	Area 2 North half	Lift 3	1	6	137.3	6.4	4.9	130.9	95
27	Area 2 North half	Lift 3	1	6	139.6	6.8	5.1	132.8	96
28	Area 2 North half	Lift 3	1	6	137.8	5.6	4.2	132.2	96
29	Area 2 North half	Lift 3	2	6	136.5	5.4	4.1	131.1	95
30	Area 2 North half	Lift 3	2	6	139.4	5.2	3.9	134.2	97

Datum: Top of existing grade **Std. Cnt. M:** 757 **Std. Cnt. D:** 2507
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0077
Service Date: 05/21/22
Report Date: 05/25/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0078
Service Date: 05/23/22
Report Date: 06/08/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049H	PENNDOT Approved Material	ASTM D698	8.0	136.1		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 2								
1	Area 2		1	6	141.0	5.8	4.3	135.2	99
	Area 2								
2	Area 2		1	6	145.6	7.7	5.6	137.9	100+

Datum: top of existing grade **Std. Cnt. M:** 754 **Std. Cnt. D:** 2717
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0083
Service Date: 05/26/22
Report Date: 05/27/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049N	PENNDOT Approved Material, Sample #8	ASTM D698	7.0	138.4		
2	J5211361.0049P	PENNDOT Approved Material, Sample #9	ASTM D698	7.2	136.4		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	1	1	1	6	147.6	8.0	5.7	139.6	100+
2	2	1	1	6	147.4	9.4	6.8	138.0	100
3	3	1	1	6	147.7	7.8	5.6	139.9	100+
4	4	1	1	6	148.9	8.6	6.1	140.3	100+
5	5	1	1	6	146.1	7.5	5.4	138.6	100
6	6	1	2	6	148.6	9.3	6.7	139.3	100+
7	7	2	2	6	147.7	8.5	6.1	139.2	100+

Datum: Final grade **Std. Cnt. M:** 689 **Std. Cnt. D:** 2373
S/N: 75973 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 02/04/2022
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To: Onsite Representatives of Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0084
Service Date: 05/27/22
Report Date: 05/27/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049P	PENNDOT Approved Material, Sample #9	ASTM D698	7.2	136.4		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	1	1	1	6	145.6	10.0	7.4	135.6	99
2	2	1	1	6	145.4	10.3	7.6	135.1	99
3	3	1	1	6	144.7	10.5	7.8	134.2	98

Datum: Final grade **Std. Cnt. M:** 689 **Std. Cnt. D:** 2373
S/N: 75973 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 02/04/2022
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To: Onsite Representatives of Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0085
Service Date: 05/31/22
Report Date: 06/02/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049R	PENNDOT Approved Material, Sample #10	ASTM D1557	7.0	139.3		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 2								
1	South section	Lift 1	1	6	140.3	7.1	5.3	133.2	96
	Area 2								
2	South section	Lift 1	1	6	139.1	6.5	4.9	132.6	95

Datum: Top of existing grade **Std. Cnt. M:** 752 **Std. Cnt. D:** 2725
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0086
Service Date: 06/01/22
Report Date: 06/02/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049F	PENNDOT Approved Material, Sample 4	ASTM D698	8.2	136.4		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	1	1	1	6	139.6	6.0	4.5	133.6	98
2	2	1	1	6	140.8	5.9	4.4	134.9	99
3	3	1	1	6	138.6	7.0	5.3	131.6	96

Datum: Final grade **Std. Cnt. M:** 2569 **Std. Cnt. D:** 721
S/N: 75968 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 07/01/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To: Onsite Representatives of Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0087
Service Date: 06/02/22
Report Date: 06/07/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049R	PENNDOT Approved Material, Sample #10	ASTM D1557	7.0	139.3		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	Area 2	Lift 1	1	6	149.5	7.9	5.6	141.6	100+
2	Area 2	Lift 1	1	6	144.7	6.9	5.0	137.8	99

Datum: Top of existing grade **Std. Cnt. M:** 747 **Std. Cnt. D:** 2713
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0088
Service Date: 06/03/22
Report Date: 06/06/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049P	PENNDOT Approved Material, Sample #9	ASTM D698	7.2	136.4		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Main pit backfill								
1	1	1	1	6	139.6	7.4	5.6	132.2	97
	Main pit backfill								
2	2	1	1	6	139.7	8.2	6.2	131.5	96
	Main pit backfill								
3	3	1	1	6	137.7	5.8	4.4	131.9	97

Datum: Final grade **Std. Cnt. M:** 721 **Std. Cnt. D:** 2569
S/N: 75968 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 07/01/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To: Miranda with Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0089
Service Date: 06/06/22
Report Date: 06/07/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0081B	Item 4 mixed with #57 Stone	ASTM D698	4.8	142.0		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	Area 2	Lift 2	1	6	145.5	8.6	6.3	136.9	96
2	Area 2	Lift 2	1	6	144.0	8.3	6.1	135.7	96
3	Area 2	Lift 2	1	6	144.3	8.7	6.4	135.6	95
4	Area 2	Lift 2	1	6	144.8	8.5	6.2	136.3	96
5	Area 2	Lift 1	1	6	143.9	8.7	6.4	135.2	95
6	Area 2	Lift 1	1	6	145.6	8.6	6.3	137.0	96
7	Area 2	Lift 2	1	6	143.7	8.3	6.1	135.4	95
8	Area 2	Lift 2	1	6	144.0	8.4	6.2	135.6	95

Datum: Top of existing grade **Std. Cnt. M:** 771 **Std. Cnt. D:** 2718
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec and Recon
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0090
Service Date: 06/07/22
Report Date: 06/09/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049P	PENNDOT Approved Material, Sample #9	ASTM D698	7.2	136.4		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	1	1	1	6	136.9	7.0	5.4	129.9	95
2	2	1	1	6	139.3	7.6	5.8	131.7	97
3	3	1	1	6	138.3	7.1	5.4	131.2	96
4	4	1	1	6	140.3	8.8	6.7	131.5	96
5	5	1	1	6	138.5	8.5	6.5	130.0	95

Datum: Final grade **Std. Cnt. M:** 721 **Std. Cnt. D:** 2585
S/N: 75968 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 07/01/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To: Miranda with Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0091
Service Date: 06/08/22
Report Date: 06/09/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049V	PENNDOT Approved Material, Sample #12	ASTM D698	6.7	137.2		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	Area 2	Lift 1	1	6	141.6	8.4	6.3	133.2	97
2	Area 2	Lift 2	1	6	143.2	8.0	5.9	135.2	99

Datum: Top of existing grade **Std. Cnt. M:** 769 **Std. Cnt. D:** 2697
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec and Recon
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0093
Service Date: 06/10/22
Report Date: 06/10/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049V	PENNDOT Approved Material, Sample #12	ASTM D698	6.7	137.2		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 2								
1	Center	Lift 1	1	6	144.5	8.9	6.6	135.6	99
	Area 2								
2	Center	Lift 1	1	6	136.4	6.1	4.7	130.3	95
	Area 2								
3	South	Lift 1	1	6	143.1	8.5	6.3	134.6	98
	Area 2								
4	South	Lift 1	1	6	141.2	8.1	6.1	133.1	97
	Area 2								
5	North	Lift 1	1	6	139.1	8.0	6.1	131.1	96
	Area 2								
6	North	Lift 1	1	6	137.9	7.2	5.5	130.7	95

Datum: Top of existing grade **Std. Cnt. M:** 769 **Std. Cnt. D:** 2490
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec and Recon
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0094
Service Date: 06/13/22
Report Date: 06/13/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049V	PENNDOT Approved Material, Sample #12	ASTM D698	6.7	137.2		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	1	1	1	6	143.7	5.7	4.1	138.0	100+
2	2	1	1	6	136.2	5.2	4.0	131.0	95
3	3	1	1	6	142.9	5.8	4.2	137.1	100
4	4	1	1	6	138.3	5.7	4.3	132.6	97
5	5	1	1	6	135.9	5.2	4.0	130.7	95

Datum: Final grade **Std. Cnt. M:** 763 **Std. Cnt. D:** 2432
S/N: 74112 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/26/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To: Miranda with Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0095
Service Date: 06/14/22
Report Date: 06/14/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049V	PENNDOT Approved Material, Sample #12	ASTM D698	6.7	137.2		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 2								
1	South end	Lift 1	1	6	139.3	7.0	5.3	132.3	96
	Area 2								
2	South end	Lift 1	1	6	143.1	6.4	4.7	136.7	100
	Area 2								
3	Middle	Lift 1	1	6	135.6	5.7	4.4	129.9	95
	Area 2								
4	Middle	Lift 1	1	6	136.6	6.5	5.0	130.1	95
	Area 2								
5	North end	Lift 1	1	6	137.2	6.5	5.0	130.7	95
	Area 2								
6	North end	Lift 1	1	6	138.3	6.8	5.2	131.5	96

Datum: Top of existing grade **Std. Cnt. M:** 770 **Std. Cnt. D:** 2693
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec and Recon
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0096
Service Date: 06/15/22
Report Date: 06/16/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049V	PENNDOT Approved Material, Sample #12	ASTM D698	6.7	137.2		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 2								
1	West half	Lift 1	1	6	139.9	6.2	4.6	133.7	97
	Area 2								
2	West half	Lift 1	1	6	137.2	6.7	5.1	130.5	95
	Area 2								
3	West half	Lift 1	1	6	140.3	6.8	5.1	133.5	97
	Area 2								
4	West half	Lift 1	1	6	136.4	5.4	4.1	131.0	95
	Area 2								
5	West half	Lift 1	1	6	137.9	6.3	4.8	131.6	96

Datum: Top of existing grade **Std. Cnt. M:** 766 **Std. Cnt. D:** 2739
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec and Recon
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0097
Service Date: 06/16/22
Report Date: 06/20/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049V	PENNDOT Approved Material, Sample #12	ASTM D698	6.7	137.2		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 2								
1	East half	Lift 1	1	6	145.2	5.6	4.0	139.6	100+
	Area 2								
2	East half	Lift 1	1	6	141.3	4.8	3.5	136.5	99
	Area 2								
3	East half	Lift 1	1	6	139.7	5.2	3.9	134.5	98
	Area 2								
4	East half	Lift 1	1	6	138.9	5.2	3.9	133.7	97
	Area 2								
5	East half	Lift 1	1	6	138.5	5.1	3.8	133.4	97
	Area 2								
6	East half	Lift 2	1	6	138.7	6.6	5.0	132.1	96
	Area 2								
7	West half	Lift 2	1	6	137.9	7.1	5.4	130.8	95
	Area 2								
8	West half	Lift 2	1	6	140.4	6.9	5.2	133.5	97
	Area 2								
9	West half	Lift 2	1	6	138.4	6.5	4.9	131.9	96
	Area 2								
10	West half	Lift 2	1	6	140.0	5.9	4.4	134.1	98

Datum: Top of existing grade **Std. Cnt. M:** 766 **Std. Cnt. D:** 2739
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0097
Service Date: 06/16/22
Report Date: 06/20/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec and Recon
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0098
Service Date: 06/17/22
Report Date: 06/20/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0049V	PENNDOT Approved Material, Sample #12	ASTM D698	6.7	137.2		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	1	3	1	6	140.4	6.0	4.5	134.4	98
2	2	3	1	6	137.6	5.5	4.2	132.1	96
3	3	3	1	6	137.2	4.9	3.7	132.3	96
4	4	3	1	6	140.7	6.2	4.6	134.5	98
5	5	3	1	6	136.6	5.8	4.4	130.8	95
6	6	4	1	6	136.7	5.6	4.3	131.1	96
7	6	4	1	6	139.2	8.5	6.5	130.7	95
8	8	4	1	6	141.5	6.7	5.0	134.8	98
9	9	4	1	6	140.4	6.9	5.2	133.5	97
10	10	4	1	6	139.0	6.4	4.8	132.6	97
11	11	1	1	6	140.6	7.1	5.3	133.5	97

Datum: Final grade **Std. Cnt. M:** 753 **Std. Cnt. D:** 2373
S/N: 74112 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/26/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To: Miranda with Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0099
Service Date: 06/19/22
Report Date: 06/20/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0053B	PENNDOT Approved Material, sample #13	ASTM D1557	6.6	136.1		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	area 2								
1	south	-2.5	1	6	136.3	5.0	3.8	131.3	96
2	south	-2.5	1	6	135.1	5.2	4.0	129.9	95
3	center	-2.5	1	6	139.8	5.5	4.1	134.3	99
4	north	-2.5	1	6	136.1	5.4	4.1	130.7	96
5	north	-2.5	1	6	144.8	6.6	4.8	138.2	100+

Datum: provided by Recon
S/N: 70111 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 02/04/2022
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0100
Service Date: 06/20/22
Report Date: 06/22/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0053H	PENNDOT Approved Material, Sample #16	ASTM D698	7.4	134.7		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 2								
1	West half	Lift 1	1	6	136.7	6.1	4.7	130.6	97
	Area 2								
2	West half	Lift 1	1	6	137.3	5.8	4.4	131.5	98
	Area 2								
3	West half	Lift 1	1	6	138.8	5.7	4.3	133.1	99
	Area 2								
4	West half	Lift 1	1	6	138.7	5.5	4.1	133.2	99
	Area 2								
5	West half	Lift 1	1	6	136.8	6.4	4.9	130.4	97

Datum: Top of existing grade **Std. Cnt. M:** 767 **Std. Cnt. D:** 2494
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec and Recon
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0101
Service Date: 06/21/22
Report Date: 06/28/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0053H	PENNDOT Approved Material, Sample #16	ASTM D698	7.4	134.7		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 2								
1	West half	Lift 1	1	6	137.2	6.7	5.1	130.5	97
	Area 2								
2	West half	Lift 1	1	6	137.6	5.8	4.4	131.8	98
	Area 2								
3	West half	Lift 1	1	6	140.6	6.2	4.6	134.4	100
	Area 2								
4	West half	Lift 1	1	6	140.2	7.1	5.3	133.1	99
	Area 2								
5	West halft	Lift 1	1	6	140.4	6.7	5.0	133.7	99

Datum: Top of existing grade **Std. Cnt. M:** 767 **Std. Cnt. D:** 2724
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0103
Service Date: 07/05/22
Report Date: 07/06/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0053B	PENNDOT Approved Material, sample #13	ASTM D1557	6.6	136.1		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 2								
1	South end	Lift 1	1	6	136.0	4.1	3.1	131.9	97
	Area 2								
2	South end	Lift 1	1	6	135.5	4.6	3.5	130.9	96
	Area 2								
3	South end	Lift 1	1	6	137.6	5.4	4.1	132.2	97
	Area 2								
4	South end	Lift 1	1	6	142.0	5.9	4.3	136.1	100
	Area 2								
5	South end	Lift 1	1	6	136.6	4.0	3.0	132.6	97
	Area 2								
6	South end	Lift 2	1	6	138.1	6.6	5.0	131.5	97
	Area 2								
7	South end	Lift 2	1	6	138.1	6.8	5.2	131.3	96
	Area 2								
8	South end	Lift 2	1	6	141.4	7.2	5.4	134.2	99
	Area 2								
9	South end	Lift 2	1	6	143.6	8.6	6.4	135.0	99
	Area 2								
10	South end	Lift 2	1	6	142.3	7.9	5.9	134.4	99

Datum: Top of existing grade **Std. Cnt. M:** 756 **Std. Cnt. D:** 2701
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0103
Service Date: 07/05/22
Report Date: 07/06/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec and Recon
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0105
Service Date: 07/07/22
Report Date: 07/11/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0053B	PENNDOT Approved Material, sample #13	ASTM D1557	6.6	136.1		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	Area 2	Lift 1	1	6	135.7	5.2	4.0	130.5	96
2	Area 2	Lift 1	1	6	137.0	5.5	4.2	131.5	97
3	Area 2	Lift 1	1	6	136.0	5.9	4.5	130.1	96
4	Area 2	Lift 2	1	6	134.8	5.3	4.1	129.5	95
5	Area 2	Lift 2	1	6	142.8	6.9	5.1	135.9	100

Datum: Top of existing grade **Std. Cnt. M:** 766 **Std. Cnt. D:** 2501
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec and Recon
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0106
Service Date: 07/08/22
Report Date: 07/12/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Optimum Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0053B	PENNDOT Approved Material, sample #13	ASTM D1557	6.6	136.1		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	1	1	1	6	137.2	6.8	5.2	130.4	96
2	2	1	1	6	139.6	6.8	5.1	132.8	98
3	3	1	1	6	139.6	7.8	5.9	131.8	97
4	4	1	1	6	137.1	6.2	4.7	130.9	96
5	5	1	1	6	138.9	7.4	5.6	131.5	97

Datum: Final grade **Std. Cnt. M:** 746 **Std. Cnt. D:** 2234
S/N: 74112 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/26/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To: Miranda with Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0107
Service Date: 07/09/22
Report Date: 10/13/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0053B	PENNDOT Approved Material, sample #13	ASTM D1557	6.6	136.1		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	**Area 3**	lift 1	1	6	140.3	7.2	5.4	133.1	98
2	**Area 3**	lift 1	1	6	135.9	6.2	4.8	129.7	95
3	**Area 3**	lift 1	1	6	140.9	8.1	6.1	132.8	98
4	**Area 3**	lift 1	1	6	138.3	7.8	6.0	130.5	96
5	**Area 3**	lift 1	1	6	137.9	6.9	5.3	131.0	96
6	**Area3**	lift 1	1	6	143.1	8.0	5.9	135.1	99
7	**Area 3**	lift 1	1	6	143.6	7.4	5.4	136.2	100
8	**Area 3**	lift 1	1	6	141.8	7.4	5.5	134.4	99
9	**Area 3**	lift 1	1	6	142.8	8.8	6.6	134.0	98
10	**Area 3**	lift 1	1	6	139.9	7.0	5.3	132.9	98

Datum:
S/N: **Make:** **Model:** **Last Cal. Date:**
Comments:

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0107
Service Date: 07/09/22
Report Date: 10/13/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0108
Service Date: 07/25/22
Report Date: 01/04/23 Revision 1 - Results
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0053N	NYSDOT Approved Material	ASTM D698	6.7	132.6		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	CP2 1	1	1	6	145.8	7.5	5.4	138.3	100+
2	CP2 2	1	1	6	150.5	7.8	5.5	142.7	100+
3	CP2 3	1	1	6	146.2	7.0	5.0	139.2	100+
4	CP2 4	1	1	6	145.2	6.8	4.9	138.4	100+
5	CP2 5	1	1	6	149.9	7.5	5.3	142.4	100+
6	CP2 6	2	1	6	142.6	7.2	5.3	135.4	100+
7	CP2 7	2	1	6	138.7	6.2	4.7	132.5	100
8	CP2 8	2	1	6	145.8	6.5	4.7	139.3	100+
9	CP2 9	2	1	6	136.7	5.6	4.3	131.1	99
10	CP2 10	2	1	6	138.9	5.2	3.9	133.7	100+
11	CP2 11	3	1	6	137.2	5.7	4.3	131.5	99
12	CP2 12	3	1	6	137.5	5.7	4.3	131.8	99
13	CP2 13	3	1	6	144.6	6.9	5.0	137.7	100+
14	CP2 14	3	1	6	143.0	5.6	4.1	137.4	100+
15	CP2 15	3	1	6	138.9	5.9	4.4	133.0	100

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0108
Service Date: 07/25/22
Report Date: 01/04/23 Revision 1 - Results
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	CP2								
16	16	4	1	6	136.5	6.0	4.6	130.5	98
	CP2								
17	17	4	1	6	137.3	6.4	4.9	130.9	99
	CP2								
18	18	4	1	6	135.6	5.3	4.1	130.3	98
	CP2								
19	19	4	1	6	135.6	5.8	4.5	129.8	98
	CP2								
20	20	4	1	6	136.5	6.0	4.6	130.5	98
	A5								
21	21	1	1	6	137.4	9.2	7.2	128.2	97
	A5								
22	22	1	1	6	136.0	6.7	5.2	129.3	98
	A5								
23	23	1	1	6	144.2	10.8	8.1	133.4	100+
	A5								
24	24	1	1	6	142.4	7.7	5.7	134.7	100+
	A5								
25	25	1	1	6	139.1	7.4	5.6	131.7	99

Datum:
S/N: **Make:** **Model:** **Last Cal. Date:**
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0109
Service Date: 07/26/22
Report Date: 08/19/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0053N	NYSDOT Approved Material	ASTM D698	6.7	132.6		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	A4 1	4	1	6	135.9	5.4	4.1	130.5	98
2	A4 2	4	1	6	137.1	6.4	4.9	130.7	99
3	A4 3	4	1	6	138.7	5.1	3.8	133.6	100+
4	A4 4	4	1	6	144.2	6.2	4.5	138.0	100+
5	A4 5	4	1	6	136.3	5.4	4.1	130.9	99
6	A4 6	5	1	6	136.1	5.5	4.2	130.6	98
7	A4 7	5	1	6	136.5	5.6	4.3	130.9	99
8	A4 8	5	1	6	139.4	6.0	4.5	133.4	100+
9	A4 9	5	1	6	139.0	6.5	4.9	132.5	100
10	A4 10	5	1	6	135.7	5.1	3.9	130.6	98
11	A4 11	6	1	6	143.3	8.6	6.4	134.7	100+
12	A4 12	6	1	6	141.3	8.5	6.4	132.8	100
13	A4 13	6	1	6	142.0	8.0	6.0	134.0	100+
14	A4 14	6	1	6	147.0	7.7	5.5	139.3	100+
15	A4 15	6	1	6	144.4	7.7	5.6	136.7	100+

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0109
Service Date: 07/26/22
Report Date: 08/19/22
Task:

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

Client

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

Project

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

Datum:
S/N: **Make:** **Model:** **Last Cal. Date:**
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0110
Service Date: 07/27/22
Report Date: 01/04/23 Revision 1 - Results
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0053N	NYSDOT Approved Material	ASTM D698	6.7	132.6		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	A4								
1	1	6	1	6	142.0	7.4	5.5	134.6	100+
	A4								
2	2	6	1	6	147.2	8.3	6.0	138.9	100+
	A4								
3	3	6	1	6	141.5	7.1	5.3	134.4	100+
	A4								
4	4	6	1	6	149.3	7.4	5.2	141.9	100+
	A4								
5	5	6	1	6	146.6	7.9	5.7	138.7	100+
	CP2								
6	6	5	1	6	136.5	6.9	5.3	129.6	98
	CP2								
7	7	5	1	6	137.2	6.9	5.3	130.3	98
	CP2								
8	8	5	1	6	137.7	6.9	5.3	130.8	99
	CP2								
9	9	5	1	6	138.2	6.7	5.1	131.5	99
	CP2								
10	10	5	1	6	136.6	6.4	4.9	130.2	98
	A4								
11	11	4	1	6	132.5	5.2	4.1	127.3	96
	A4								
12	12	4	1	6	137.1	6.4	4.9	130.7	99
	A4								
13	13	4	1	6	138.7	5.1	3.8	133.6	100+
	A4								
14	14	4	1	6	144.2	6.2	4.5	138.0	100+
	A4								
15	15	4	1	6	136.3	5.4	4.1	130.9	99

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0110
Service Date: 07/27/22
Report Date: 01/04/23 Revision 1 - Results
Task:

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

Client

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

Project

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

Datum:
S/N: **Make:** **Model:** **Last Cal. Date:**
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0113
Service Date: 07/28/22
Report Date: 08/19/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0053P	NYSDOT Approved Material	ASTM D698	7.0	132.3		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	**CP2** 1	6	1	6	142.0	7.4	5.5	134.6	100+
2	**CP2** 2	6	1	6	147.2	8.3	6.0	138.9	100+
3	**CP2** 3	6	1	6	141.5	7.1	5.3	134.4	100+
4	**CP2** 4	6	1	6	149.3	7.4	5.2	141.9	100+
5	**CP2** 5	6	1	6	146.6	7.9	5.7	138.7	100+
6	**CP2 hole** 6	1	1	6	136.5	6.9	5.3	129.6	98
7	**CP2 hole** 7	1	1	6	137.1	6.8	5.2	130.3	98
8	**CP2 hole** 8	1	1	6	137.9	7.1	5.4	130.8	99
9	**CP2 hole** 9	1	1	6	138.6	7.1	5.4	131.5	99
10	**CP2 hole** 10	1	1	6	136.6	6.4	4.9	130.2	98

Datum:
S/N: **Make:** **Model:** **Last Cal. Date:**
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0113
Service Date: 07/28/22
Report Date: 08/19/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0114
Service Date: 07/29/22
Report Date: 08/19/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0053P	NYSDOT Approved Material	ASTM D698	7.0	132.3		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	CP2								
1	1	6	1	6	135.9	5.5	4.2	130.4	99
	CP2								
2	2	6	1	6	135.0	5.4	4.2	129.6	98
	CP2								
3	3	6	1	6	136.2	5.7	4.4	130.5	99
	CP2								
4	4	6	1	6	139.7	5.5	4.1	134.2	100+
	CP2								
5	5	6	1	6	139.1	6.1	4.6	133.0	100+
	CP2 hole								
6	6	1	1	6	136.0	5.4	4.1	130.6	99
	CP2 hole								
7	7	1	1	6	136.7	5.6	4.3	131.1	99
	CP2 hole								
8	8	1	1	6	136.0	5.6	4.3	130.4	99
	CP2 hole								
9	9	1	1	6	136.4	5.9	4.5	130.5	99
	CP2 hole								
10	10	1	1	6	136.7	5.8	4.4	130.9	99
	CP2 trench								
11	11	1	1	6	133.0	6.1	4.8	126.9	96
	CP2 trench								
12	12	1	1	6	134.7	5.9	4.6	128.8	97
	CP2 trench								
13	13	1	1	6	135.6	6.5	5.0	129.1	98
	CP2 trench								
14	14	1	1	6	136.1	6.6	5.1	129.5	98
	CP2 trench								
15	15	1	1	6	135.1	6.6	5.1	128.5	97

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0114
Service Date: 07/29/22
Report Date: 08/19/22
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	CP2 hole								
16	16	2	1	6	135.4	5.3	4.1	130.1	98
	CP2 hole								
17	17	2	1	6	135.3	5.8	4.5	129.5	98
	CP2 hole								
18	18	2	1	6	137.0	5.5	4.2	131.5	99
	CP2 hole								
19	19	2	1	6	135.4	5.6	4.3	129.8	98
	CP2 hole								
20	20	2	1	6	136.4	5.9	4.5	130.5	99
	CP2 trench								
21	21	2	1	6	131.4	4.7	3.7	126.7	96
	CP2 trench								
22	22	2	1	6	135.1	5.1	3.9	130.0	98
	CP2 trench								
23	23	2	1	6	135.6	6.1	4.7	129.5	98
	CP2 trench								
24	24	2	1	6	132.6	5.0	3.9	127.6	96
	CP2 trench								
25	25	2	1	6	136.8	5.8	4.4	131.0	99
	CP2								
26	26	7	1	6	141.8	7.6	5.7	134.2	100+
	CP2								
27	27	7	1	6	140.0	6.5	4.9	133.5	100+
	CP2								
28	28	7	1	6	137.4	5.8	4.4	131.6	99
	CP2								
29	29	7	1	6	142.8	8.2	6.1	134.6	100+
	CP2								
30	30	7	1	6	141.0	7.2	5.4	133.8	100+
	CP2								
31	31	8	1	6	145.1	8.1	5.9	137.0	100+
	CP2								
32	32	8	1	6	144.3	8.2	6.0	136.1	100+

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0114
Service Date: 07/29/22
Report Date: 08/19/22
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	CP2								
33	33	8	1	6	145.9	8.6	6.3	137.3	100+
	CP2								
34	34	8	1	6	144.8	8.3	6.1	136.5	100+
	CP2								
35	35	8	1	6	145.1	8.0	5.8	137.1	100+
	CP2 hole								
36	36	3	1	6	138.8	6.6	5.0	132.2	100
	CP2 hole								
37	37	3	1	6	140.4	6.9	5.2	133.5	100+
	CP2 hole								
38	38	3	1	6	137.9	6.4	4.9	131.5	99
	CP2 hole								
39	39	3	1	6	138.4	6.0	4.5	132.4	100
	CP2 hole								
40	40	3	1	6	138.9	7.0	5.3	131.9	100
	CP2 trench								
41	41	3	1	6	146.2	8.3	6.0	137.9	100+
	CP2 trench								
42	42	3	1	6	143.9	7.4	5.4	136.5	100+
	CP2 trench								
43	43	3	1	6	145.3	8.2	6.0	137.1	100+
	CP2 trench								
44	44	3	1	6	145.9	8.4	6.1	137.5	100+
	CP2 trench								
45	45	3	1	6	145.0	8.1	5.9	136.9	100+
	A4								
46	46	6	1	6	140.6	7.3	5.5	133.3	100+
	A4								
47	47	6	1	6	139.0	7.6	5.8	131.4	99
	A4								
48	48	6	1	6	139.8	7.9	6.0	131.9	100
	A4								
49	49	6	1	6	141.7	7.1	5.3	134.6	100+

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0114
Service Date: 07/29/22
Report Date: 08/19/22
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	A4								
50	50	6	1	6	141.5	8.0	6.0	133.5	100+
	A4								
51	51	5	1	6	139.5	8.1	6.2	131.4	99
	A4								
52	52	5	1	6	139.3	8.1	6.2	131.2	99
	A4								
53	53	5	1	6	145.9	9.0	6.6	136.9	100+
	A4								
54	54	5	1	6	147.8	8.5	6.1	139.3	100+
	A4								
55	55	5	1	6	140.1	8.4	6.4	131.7	100
	CP2 hole								
56	56	4	1	6	138.1	7.3	5.6	130.8	99
	CP2 hole								
57	57	4	1	6	144.4	8.6	6.3	135.8	100+
	CP2 hole								
58	58	4	1	6	142.6	8.1	6.0	134.5	100+
	CP2 hole								
59	59	4	1	6	142.2	8.4	6.3	133.8	100+
	CP2 hole								
60	60	4	1	6	140.8	8.2	6.2	132.6	100
	A4								
61	61	4	1	6	144.8	8.3	6.1	136.5	100+
	A4								
62	62	4	1	6	144.6	8.3	6.1	136.3	100+
	A4								
63	63	4	1	6	142.9	8.6	6.4	134.3	100+
	A4								
64	64	4	1	6	143.5	8.4	6.2	135.1	100+
	A4								
65	65	4	1	6	144.9	8.7	6.4	136.2	100+
	CP2 trench								
66	66	4	1	6	146.3	9.2	6.7	137.1	100+

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0114
Service Date: 07/29/22
Report Date: 08/19/22
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	CP2 trench								
67	67	4	1	6	144.6	8.7	6.4	135.9	100+
	CP2 trench								
68	68	4	1	6	148.5	8.5	6.1	140.0	100+
	CP2 trench								
69	69	4	1	6	145.0	8.5	6.2	136.5	100+
	CP2 trench								
70	70	4	1	6	138.7	8.3	6.4	130.4	99

Datum:
S/N: **Make:** **Model:** **Last Cal. Date:**
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0115
Service Date: 07/30/22
Report Date: 08/19/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0053P	NYSDOT Approved Material	ASTM D698	7.0	132.3		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	CP2 1	6	1	6	144.0	7.0	5.1	137.0	100+
2	CP2 2	6	1	6	137.8	6.4	4.9	131.4	99
3	CP2 3	6	1	6	144.6	7.9	5.8	136.7	100+
4	CP2 4	6	1	6	134.8	6.8	5.3	128.0	97
5	CP2 5	6	1	6	135.8	5.0	3.8	130.8	99

Datum:
S/N: **Make:** **Model:** **Last Cal. Date:**
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0116
Service Date: 08/01/22
Report Date: 08/11/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0053P	NYSDOT Approved Material	ASTM D698	7.0	132.3		Min 95
2	J5211361.0053R	NYSDOT Approved Material	ASTM D698	6.5	135.5		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	Area 3	Lift 1	1	6	134.7	5.4	4.2	129.3	98
2	Area 3	Lift 1	1	6	139.5	5.4	4.0	134.1	100+
3	Area 3	Lift 1	1	6	141.4	6.7	5.0	134.7	100+
4	Area 3	Lift 1	1	6	138.1	5.7	4.3	132.4	100
5	Area 3	Lift 1	1	6	138.2	6.1	4.6	132.1	100
6	Area 3	Lift 1	2	6	137.5	5.3	4.0	132.2	98
7	Area 3	Lift 1	2	6	141.7	6.5	4.8	135.2	100
8	Area 3	Lift 1	2	6	142.3	6.3	4.6	136.0	100
9	Area 3	Lift 1	2	6	140.3	6.3	4.7	134.0	99
10	Area 3	Lift 1	2	6	141.0	5.8	4.3	135.2	100
11	Area 3	Lift 2	2	6	142.0	6.9	5.1	135.1	100
12	Area 3	Lift 2	2	6	139.2	7.0	5.3	132.2	98
13	Area 3	Lift 2	2	6	137.7	7.3	5.6	130.4	96
14	Area 3	Lift 2	2	6	135.7	6.2	4.8	129.5	96
15	Area 3	Lift 2	2	6	140.8	6.7	5.0	134.1	99
16	Area 3	Lift 3	2	6	140.8	6.3	4.7	134.5	99
17	Area 3	Lift 3	2	6	139.7	6.5	4.9	133.2	98
18	Area 3	Lift 3	2	6	140.2	6.8	5.1	133.4	98
19	Area 3	Lift 3	2	6	140.2	6.7	5.0	133.5	99
20	Area 3	Lift 3	2	6	137.0	6.4	4.9	130.6	96

Datum: Top of existing grade **Std. Cnt. M:** 699 **Std. Cnt. D:** 2637
S/N: 75757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/28/2022
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec and Recon
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0117
Service Date: 08/02/22
Report Date: 09/06/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0067R	PENNDOT Approved Material Sample #30	ASTM D698	6.5	137.4		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	A3 vault								
1	1	1	1	6	142.2	7.2	5.3	135.0	98
	A3 vault								
2	2	1	1	6	146.0	7.7	5.6	138.3	100+
	A3 vault								
3	3	1	1	6	147.7	8.2	5.9	139.5	100+
	A3 vault								
4	4	1	1	6	145.6	7.3	5.3	138.3	100+
	A3 vault								
5	5	1	1	6	148.6	8.4	6.0	140.2	100+
	Area 3 hole								
6	6	1	1	6	147.7	8.2	5.9	139.5	100+
	Area 3 hole								
7	7	1	1	6	146.9	8.3	6.0	138.6	100+
	Area 3 hole								
8	8	1	1	6	146.9	8.4	6.1	138.5	100+
	Area 3 hole								
9	9	1	1	6	148.2	8.3	5.9	139.9	100+
	Area 3 hole								
10	10	1	1	6	146.7	8.3	6.0	138.4	100+
	Area 3 hole								
11	11	2	1	6	139.1	7.4	5.6	131.7	96
	Area 3 hole								
12	12	2	1	6	141.4	7.6	5.7	133.8	97
	Area 3 hole								
13	13	2	1	6	139.4	7.3	5.5	132.1	96
	Area 3 hole								
14	14	2	1	6	142.8	7.6	5.6	135.2	98
	Area 3 hole								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0117
Service Date: 08/02/22
Report Date: 09/06/22
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
15	15	2	1	6	140.1	7.6	5.7	132.5	96
	Area 3 hole								
16	16	3	1	6	137.8	7.1	5.4	130.7	95
	Area 3 hole								
17	17	3	1	6	137.5	7.0	5.4	130.5	95
	Area 3 hole								
18	18	3	1	6	140.7	7.1	5.3	133.6	97
	Area 3 hole								
19	19	3	1	6	139.4	6.9	5.2	132.5	96
	Area 3 hole								
20	20	3	1	6	141.7	7.6	5.7	134.1	98
	area 3								
21	21	1	1	6	141.4	7.1	5.3	134.3	98
	area 3								
22	22	1	1	6	137.6	6.7	5.1	130.9	95
	area 3								
23	23	1	1	6	141.6	6.5	4.8	135.1	98
	area 3								
24	24	1	1	6	142.9	6.7	4.9	136.2	99
	area 3								
25	25	1	1	6	140.6	6.7	5.0	133.9	97

Datum:
S/N: **Make:** **Model:** **Last Cal. Date:**
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0118
Service Date: 08/03/22
Report Date: 08/19/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0067T	PENNDOT Approved Material Sample #31	ASTM D698	6.9	137.3		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	A4	6	1	6	143.0	7.2	5.3	135.8	99
2	A4	6	1	6	143.6	5.9	4.3	137.7	100
3	A4	6	1	6	143.4	6.0	4.4	137.4	100
4	A4	6	1	6	144.3	6.6	4.8	137.7	100
5	A4	6	1	6	142.4	6.0	4.4	136.4	99
6	A4	7	1	6	144.1	6.2	4.5	137.9	100
7	A4	7	1	6	143.3	7.2	5.3	136.1	99
8	A4	7	1	6	144.5	7.3	5.3	137.2	100
9	A4	7	1	6	144.5	7.1	5.2	137.4	100
10	A4	7	1	6	143.2	5.9	4.3	137.3	100

Datum: Final grade **Std. Cnt. M:** 695 **Std. Cnt. D:** 2372
S/N: 75973 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 02/04/2022
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To: Miranda with Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0119
Service Date: 08/04/22
Report Date: 10/12/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0067F	PENNDOT Approved Material - Sample 25	ASTM D698	7.2	136.5		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 5								
1	1	first	1	6	141.5	7.5	5.6	134.0	98
	Area 5								
2	2	first	1	6	141.5	7.4	5.5	134.1	98
	Area 5								
3	3	first	1	6	140.0	6.8	5.1	133.2	98
	Area 5								
4	4	first	1	6	137.6	6.6	5.0	131.0	96
	Area 5								
5	5	first	1	6	140.9	6.7	5.0	134.2	98
	Area 4								
6	6 trench	first	1	6	140.3	7.1	5.3	133.2	98
	Area 4								
7	7 trench	first	1	6	139.5	7.5	5.7	132.0	97
	Area 4								
8	8 trench	first	1	6	138.3	7.2	5.5	131.1	96
	Area 4								
9	9 trench	first	1	6	140.6	7.3	5.5	133.3	98
	Area 4								
10	10 trench	first	1	6	137.2	6.7	5.1	130.5	96
	Area 3								
11	11 trench	first	1	6	138.7	6.6	5.0	132.1	97
	Area 3								
12	12 trench	first	1	6	137.7	6.9	5.3	130.8	96

Datum: from Recon
S/N: 70111 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 02/04/2022
Comments:

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0119
Service Date: 08/04/22
Report Date: 10/12/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0120
Service Date: 08/05/22
Report Date: 01/03/23 Revision 2 - Results
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0067J	PENNDOT Approved Material Sample #26	ASTM D698	7.4	138.6		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	Area 3	Lift 1	1	6	142.7	10.1	7.6	132.6	96
2	Area 3	Lift 1	1	6	143.4	8.5	6.3	134.9	97
3	Area 3	Lift 1	1	6	146.1	9.0	6.6	137.1	99
4	Area 3	Lift 1	1	6	143.5	9.6	7.2	133.9	97
5	Area 3	Lift 1	1	6	138.4	7.0	5.3	131.4	95
6	Area 3	Lift 2	1	6	138.4	7.0	5.3	131.4	95
7	Area 3	Lift 2	1	6	140.6	7.2	5.4	133.4	96
8	Area 3	Lift 2	1	6	141.3	7.2	5.4	134.1	97
9	Area 3	Lift 2	1	6	141.6	6.5	4.8	135.1	97
10	Area 3	Lift 2	1	6	140.2	6.8	5.1	133.4	96
11	Area 3	Lift 2	1	6	140.7	8.1	6.1	132.6	96
12	Area 3	Lift 2	1	6	142.2	8.4	6.3	133.8	97
13	Area 3	Lift 2	1	6	143.6	7.7	5.7	135.9	98
14	Area 3	Lift 2	1	6	144.6	7.4	5.4	137.2	99
15	Area 3	Lift 2	1	6	144.0	7.9	5.8	136.1	98
16	Area 3	Lift 2	1	6	145.4	8.0	5.8	137.4	99
17	Area 3	Lift 2	1	6	144.1	7.9	5.8	136.2	98
18	Area 3	Lift 2	1	6	145.5	8.1	5.9	137.4	99
19	Area 3	Lift 2	1	6	147.5	9.1	6.6	138.4	100
20	Area 3	Lift 2	1	6	144.8	8.5	6.2	136.3	98
21	Area 3	Lift 2	1	6	144.1	9.7	7.2	134.4	97
22	Area 3	Lift 2	1	6	146.8	10.0	7.3	136.8	99
23	Area 3	Lift 2	1	6	146.7	9.5	6.9	137.2	99
24	Area 3	Lift 2	1	6	143.6	8.5	6.3	135.1	97
25	Area 3	Lift 2	1	6	145.0	9.7	7.2	135.3	98
26	Area 3	Lift 2	1	6	147.9	9.7	7.0	138.2	100
27	Area 3	Lift 2	1	6	145.8	9.4	6.9	136.4	98
28	Area 3	Lift 2	1	6	144.6	8.8	6.5	135.8	98
29	Area 3	Lift 2	1	6	145.9	9.7	7.1	136.2	98
30	Area 3	Lift 2	1	6	144.9	8.6	6.3	136.3	98
31	Area 3	Lift 2	1	6	142.6	8.3	6.2	134.3	97
32	Area 3	Lift 2	1	6	141.9	8.7	6.5	133.2	96

Datum: Top of existing grade **Std. Cnt. M:** 706 **Std. Cnt. D:** 2605
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Note: 47 tests were recorded on this date in the DFR and trimble.

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0120
Service Date: 08/05/22
Report Date: 01/03/23 Revision 2 - Results
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec and Recon
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0121
Service Date: 08/08/22
Report Date: 08/15/22
Task:

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

				Lab Test Data		Project Requirements	
Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Opt. Water Content (%)	Max. Lab Density (pcf)	Water Content (%)	Compaction (%)
1	J5211361.0067J	PENNDOT Approved Material Sample #26	ASTM D698	7.4	138.6		Min 95
2	J5211361.0067L	PENNDOT Approved Material	ASTM D1557	6.5	136.4		Min 95
3	J5211361.0067N	PENNDOT approved material	ASTM D698	6.2	137.1		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	Area 4	Lift 1	1	6	145.1	5.7	4.1	139.4	100+
2	Area 4	Lift 1	1	6	137.9	4.7	3.5	133.2	96
3	Area 4	Lift 1	1	6	137.3	5.4	4.1	131.9	95
4	Area 4	Lift 1	1	6	138.7	5.1	3.8	133.6	96
5	Area 4	Lift 1	1	6	137.7	6.3	4.8	131.4	95
6	Area 3 FIS	Lift 1	1	6	138.9	7.0	5.3	131.9	95
7	Area 3 FIS	Lift 1	1	6	140.4	5.4	4.0	135.0	97
8	Area 3 FIS	Lift 1	1	6	138.3	6.7	5.1	131.6	95
9	Area 5	Lift 1	2	6	146.3	6.7	4.8	139.6	100+
10	Area 5	Lift 1	2	6	145.6	7.2	5.2	138.4	100+
11	Area 3 FIS	Lift 2	2	6	140.9	5.2	3.8	135.7	99
12	Area 3 FIS	Lift 2	2	6	137.3	5.0	3.8	132.3	97
13	Area 3 FIS	Lift 2	2	6	140.8	6.7	5.0	134.1	98
14	Area 4 FIS	Lift 2	2	6	138.3	4.8	3.6	133.5	98
15	Area 3 FIS	Lift 2	2	6	140.5	5.4	4.0	135.1	99
16	Area 3	Lift 1	2	6	136.9	5.6	4.3	131.3	96
17	Area 3	Lift 1	2	6	138.3	5.3	4.0	133.0	98
18	583	Lift 1	2	6	140.1	6.5	4.9	133.6	98
19	Area 3 FIS	Lift 3	2	6	140.1	6.0	4.5	134.1	98
20	Area 3 FIS	Lift 3	2	6	137.6	6.6	5.0	131.0	96
21	Area 3 FIS	Lift 3	2	6	137.1	7.0	5.4	130.1	95
22	Area 3 FIS	Lift 3	2	6	136.3	5.4	4.1	130.9	96
23	Area 3 FIS	Lift 1	2	6	141.1	7.0	5.2	134.1	98
24	Area 3 SW trench	Lift 1	2	6	142.3	7.5	5.6	134.8	99
25	Area 4	Lift 2	2	6	142.2	6.1	4.5	136.1	100
26	Area 4	Lift 2	2	6	139.0	5.3	4.0	133.7	98
27	Area 4	Lift 2	2	6	136.1	5.7	4.4	130.4	96
28	Area 4	Lift 2	2	6	142.9	6.7	4.9	136.2	100
29	Area 4	Lift 2	2	6	141.2	6.3	4.7	134.9	99
30	Area 3 FIS	Lift 4	2	6	141.3	6.1	4.5	135.2	99
31	Area 4	Lift 4	2	6	142.7	6.5	4.8	136.2	100
32	Area 4	Lift 4	2	6	137.3	5.8	4.4	131.5	96
33	Area 4	Lift 4	2	6	136.6	5.4	4.1	131.2	96
34	Area 4	Lift 4	2	6	138.1	5.9	4.5	132.2	97
35	Area 3 SW trench	Lift 2	3	6	139.3	6.0	4.5	133.3	97
36	Area 3 FIS	Lift 5	3	6	141.7	7.3	5.4	134.4	98
37	Area 3 FIS	Lift 5	3	6	141.0	5.8	4.3	135.2	99

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0121
Service Date: 08/08/22
Report Date: 08/15/22
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
38	Area 3 FIS	Lift 5	3	6	136.4	6.0	4.6	130.4	95
39	Area 3 FIS	Lift 5	3	6	141.1	5.7	4.2	135.4	99
40	Area 3	Lift 2	3	6	139.3	5.1	3.8	134.2	98
41	Area 3	Lift 2	3	6	135.7	6.0	4.6	129.7	95
42	Area 3	Lift 2	3	6	141.7	6.0	4.4	135.7	99
43	Area 3	Lift 2	3	6	141.3	5.8	4.3	135.5	99
44	Area e	Lift 2	3	6	134.9	5.1	3.9	129.8	95
45	Area 3	Lift 2	3	6	141.5	5.4	4.0	136.1	99
46	Area 3	Lift 2	3	6	143.0	6.2	4.5	136.8	100
47	Area 3	Lift 2	3	6	139.7	5.5	4.1	134.2	98
48	Area 3	Lift 2	3	6	135.1	1.6	1.2	133.5	97

Datum: Top of existing grade **Std. Cnt. M:** 699 **Std. Cnt. D:** 2637
S/N: 75757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/28/2022
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: Onsite Representatives of Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0122
Service Date: 08/09/22
Report Date: 08/10/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0067N	PENNDOT approved material	ASTM D698	6.2	137.1		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	Area 3 FIS	Lift 1	1	6	142.7	8.6	6.4	134.1	98
2	Area 3 FIS	Lift 1	1	6	144.7	7.7	5.6	137.0	100
3	Area 3 FIS	Lift 1	1	6	146.9	9.5	6.9	137.4	100
4	Area 3 FIS	Lift 1	1	6	141.0	8.6	6.5	132.4	97
5	Area 3 FIS	Lift 1	1	6	138.7	8.5	6.5	130.2	95
6	Area 3 SW trench	Lift 1	1	6	137.8	7.1	5.4	130.7	95
7	Area 3 SW trench	Lift 2	1	6	136.0	6.2	4.8	129.8	95
8	Area 3 FIS	Lift 2	1	6	139.0	7.6	5.8	131.4	96
9	Area 3 FIS	Lift 3	1	6	139.0	7.4	5.6	131.6	96
10	Area 3 FSI	Lift 4	1	6	137.2	6.8	5.2	130.4	95
11	"583" Trench by school	Lift 2	1	6	137.3	6.7	5.1	130.6	95
12	"583" trench by school	Lift 2	1	6	139.7	7.3	5.5	132.4	97
13	"583" trench by school	Lift 2	1	6	139.8	6.7	5.0	133.1	97
14	"583" trench by school	Lift 2	1	6	140.3	6.8	5.1	133.5	97
15	"583" trench by school	Lift 2	1	6	144.3	8.2	6.0	136.1	99
16	Area 3 FIS	Lift 5	1	6	137.5	7.8	6.0	129.7	95
17	Area 3 FIS	Lift 6	1	6	138.5	8.0	6.1	130.5	95
18	Area 3 FIS	Lift 6	1	6	137.5	7.4	5.7	130.1	95
19	Area 3 FIS	Lift 7	1	6	139.7	7.7	5.8	132.0	96
20	Area 3 FIS	Lift 7	1	6	137.0	6.4	4.9	130.6	95
21	Area 3 SW trench	Lift 3	1	6	136.5	6.7	5.2	129.8	95
22	Area 3 SW trench	Lift 3	1	6	136.6	6.0	4.6	130.6	95
23	Area 3 SW trench	Lift 4	1	6	135.5	5.8	4.5	129.7	95
24	Area 3 SW trench	Lift 4	1	6	138.7	6.2	4.7	132.5	97
25	Area 3 trench	Lift 1	1	6	135.3	5.7	4.4	129.6	95
26	Area 3 trencg	Lift 1	1	6	138.4	6.1	4.6	132.3	96
27	Area 3 trench	Lift 1	1	6	141.8	7.5	5.6	134.3	98
28	Area 3 trench	Lift 1	1	6	143.3	8.1	6.0	135.2	99
29	Area 3 trench	Lift 1	1	6	141.3	6.9	5.1	134.4	98
30	Area 3 trench	Lift 2	1	6	139.1	6.0	4.5	133.1	97
31	Area 3 trench	Lift 2	1	6	136.3	6.6	5.1	129.7	95
32	Area 3 trench	Lift 2	1	6	137.1	6.4	4.9	130.7	95
33	Area 3 trench	Lift 2	1	6	140.5	6.4	4.8	134.1	98
34	Area 3 trench	Lift 2	1	6	141.6	7.1	5.3	134.5	98

Datum: Top of existing grade **Std. Cnt. M:** 639 **Std. Cnt. D:** 2406
S/N: 75757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/28/2022
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0122
Service Date: 08/09/22
Report Date: 08/10/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec and Recon
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0123
Service Date: 08/10/22
Report Date: 08/12/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0067P	PENNDOT Approved Material	ASTM D698	6.6	134.5		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 3								
1	Trench	1st	1	6	135.7	5.7	4.4	130.0	97
	"								
2	"	1st	1	6	133.0	5.5	4.3	127.5	95
	"								
3	"	1st	1	6	134.1	6.1	4.8	128.0	95
	"								
4	"	1st	1	6	133.9	6.0	4.7	127.9	95
	"								
5	"	1st	1	6	135.9	5.7	4.4	130.2	97
	"								
6	"	2nd	1	6	139.7	6.7	5.0	133.0	99
	"								
7	"	2nd	1	6	139.3	7.3	5.5	132.0	98
	"								
8	"	2nd	1	6	139.0	6.7	5.1	132.3	98
	"								
10	"	2nd	1	6	139.9	7.9	6.0	132.0	98

Datum: GPS elevations collected with Trimble
S/N: 70111 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 02/04/2022
Comments:

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0123
Service Date: 08/10/22
Report Date: 08/12/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0124
Service Date: 08/11/22
Report Date: 08/15/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0067T	PENNDOT Approved Material Sample #31	ASTM D698	6.9	137.3		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	Area 3	Lift 1	1	6	146.8	6.7	4.8	140.1	100+
2	Area 3	Lift 1	1	6	143.9	7.2	5.3	136.7	100
3	Area 3	Lift 1	1	6	146.2	6.2	4.4	140.0	100+
4	Area 3	Lift 1	1	6	145.1	7.2	5.2	137.9	100
5	Area 3	Lift 1	1	6	139.7	6.3	4.7	133.4	97
6	Area 3/4	Lift 1	1	6	144.1	7.4	5.4	136.7	100
7	Area 3	Lift 1	1	6	143.5	6.6	4.8	136.9	100
8	Area 3/4	Lift 1	1	6	143.3	7.5	5.5	135.8	99
9	Area 3/4	Lift 1	1	6	141.6	7.4	5.5	134.2	98
10	Area 3/4	Lift 1	1	6	145.9	8.8	6.4	137.1	100
11	"Florida" well 1	Lift 1	1	6	136.0	5.6	4.3	130.4	95
12	"Florida" well 1	Lift 2	1	6	139.8	5.2	3.9	134.6	98
13	"Florida" well 1	Lift 3	1	6	139.9	5.4	4.0	134.5	98

Datum: Top of existing grade **Std. Cnt. M:** 701 **Std. Cnt. D:** 2431
S/N: 75757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/28/2022
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0126
Service Date: 08/12/22
Report Date: 08/19/22
Task:

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

				Lab Test Data		Project Requirements	
Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Opt. Water Content (%)	Max. Lab Density (pcf)	Water Content (%)	Compaction (%)
1	J5211361.0067T	PENNDOT Approved Material Sample #31	ASTM D698	6.9	137.3		Min 95
2	J5211361.0067U	PENNDOT Approved Material Sample #32	ASTM D698	6.3	139.1		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	"Florida"	Lift 1	1	6	142.5	6.1	4.5	136.4	99
2	"Florida"	Lift 1	1	6	136.0	5.5	4.2	130.5	95
3	"Florida"	Lift 1	1	6	140.7	7.5	5.6	133.2	97
4	"Florida"	Lift 1	1	6	142.5	7.9	5.9	134.6	98
5	"Florida"	Lift 1	1	6	144.6	7.9	5.8	136.7	100
6	"Florida" well 1	Lift 1	1	6	136.8	5.4	4.1	131.4	96
7	"Florida" well 1	Lift 1	1	6	138.6	6.5	4.9	132.1	96
8	"Florida"	"Florida"	1	6	141.3	6.2	4.6	135.1	98
9	"Florida"	Lift 1	1	6	147.6	8.1	5.8	139.5	100+
10	"Florida"	Lift 1	1	6	136.8	5.9	4.5	130.9	95
11	"Florida"	Lift 1	1	6	139.5	5.4	4.0	134.1	98
12	"Florida"	Lift 1	1	6	136.2	5.5	4.2	130.7	95
13	Area 5	Lift 1	1	6	136.7	6.5	5.0	130.2	95
14	Area 5	Lift 1	1	6	138.0	6.1	4.6	131.9	96
15	Area 5	Lift 1	1	6	135.2	4.8	3.7	130.4	95
16	Area 5	Lift 1	1	6	138.8	5.6	4.2	133.2	97
17	Area 5	Lift 1	1	6	139.7	5.6	4.2	134.1	98
18	"Florida" well 1	Lift 2	1	6	135.6	5.2	4.0	130.4	95
19	"Florida" well 1	Lift 2	1	6	138.3	6.7	5.1	131.6	96
20	"Florida" well 1	Lift 3	1	6	138.9	5.5	4.1	133.4	97
21	"Florida" well 1	Lift 3	1	6	138.0	6.2	4.7	131.8	96
22	"Florida" well 1	Lift 4	1	6	140.5	6.7	5.0	133.8	97
23	"Florida" well 1	Lift 4	1	6	139.0	6.0	4.5	133.0	97
24	Area 5 trench	Lift 1	1	6	139.3	4.7	3.5	134.6	98
25	Area 5 trench	Lift 1	1	6	141.2	5.7	4.2	135.5	99
26	Area 5 trench	Lift 1	1	6	136.4	5.9	4.5	130.5	95
27	Area 5 trench	Lift 1	1	6	141.1	4.9	3.6	136.2	99
28	Area 5 trench	Lift 1	1	6	135.3	5.0	3.8	130.3	95
29	Area 3 FIS	Lift 1	2	6	150.0	7.1	5.0	142.9	100+
30	Area 3 FIS	Lift 2	2	6	145.1	7.7	5.6	137.4	99
31	Area 3 FIS	Lift 3	2	6	138.2	5.3	4.0	132.9	96
32	Florida trench	Lift 2	2	6	144.9	6.8	4.9	138.1	99
33	Florida trench	Lift 2	2	6	146.9	7.0	5.0	139.9	100+
34	Florida trench	Lift 2	2	6	145.4	7.2	5.2	138.2	99
35	Florida trench	Lift 2	2	6	142.7	5.5	4.0	137.2	99
36	Florida trench	Lift 2	2	6	146.1	6.4	4.6	139.7	100
37	Area 5	Lift 2	2	6	141.1	6.5	4.8	134.6	97
38	Area 5	Lift 2	2	6	140.9	5.0	3.7	135.9	98

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0126
Service Date: 08/12/22
Report Date: 08/19/22
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
39	Area 5	Lift 2	2	6	144.7	6.8	4.9	137.9	99
40	Area 5	Lift 2	2	6	140.0	6.2	4.6	133.8	96
41	Area 5	Lift 2	2	6	141.9	6.5	4.8	135.4	97
42	Area 5	Lift 2	2	6	142.5	7.6	5.6	134.9	97
43	Area 5	Lift 2	2	6	145.9	7.3	5.3	138.6	100
44	Area 5	Lift 2	2	6	143.3	6.6	4.8	136.7	98
45	Area 5	Lift 2	2	6	143.0	5.8	4.2	137.2	99
46	Area 5	Lift 2	2	6	139.3	6.9	5.2	132.4	95

Datum: Top of existing grade **Std. Cnt. M:** 701 **Std. Cnt. D:** 2535
S/N: 75757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/28/2022
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec and Recon
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0127
Service Date: 08/13/22
Report Date: 09/06/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0067T	PENNDOT Approved Material Sample #31	ASTM D698	6.9	137.3		Min 95
2	J5211361.0067U	PENNDOT Approved Material Sample #32	ASTM D698	6.3	139.1		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 4 North								
1	1	1	1	6	136.2	4.1	3.1	132.1	96
	Area 4 North								
2	2	1	1	6	135.0	4.2	3.2	130.8	95
	Area 4 North								
3	3	1	1	6	138.2	4.7	3.5	133.5	97
	Area 4 North								
4	4	1	1	6	136.6	4.2	3.2	132.4	96
	Area 4 North								
5	5	1	1	6	135.2	4.4	3.4	130.8	95
	area 4 south								
6	6	1	1	6	137.1	4.8	3.6	132.3	96
	area 4 south								
7	7	1	1	6	135.9	4.5	3.4	131.4	96
	area 4 south								
8	8	1	1	6	135.5	3.3	2.5	132.2	96
	area 4 south								
9	9	1	1	6	136.9	4.0	3.0	132.9	97
	area 4 south								
10	10	1	1	6	141.1	5.6	4.1	135.5	99
	Area 4 and 3 Center south								
11	11	1	2	6	139.7	7.2	5.4	132.5	95
	Area 4 and 3 Center south								
12	12	1	2	6	140.2	7.6	5.7	132.6	95
	Area 4 and 3 Center south								
13	13	1	2	6	139.7	7.4	5.6	132.3	95
	Area 4 and 3 Center south								
14	14	1	2	6	145.9	8.0	5.8	137.9	99

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0127
Service Date: 08/13/22
Report Date: 09/06/22
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 4 and 3 Center south								
15	15	1	2	6	142.9	7.7	5.7	135.2	97
	trench box light poll								
16	16	1	2	6	140.5	7.6	5.7	132.9	96
	trench box light poll								
17	17	1	2	6	140.5	7.3	5.5	133.2	96
	trench box light poll								
18	18	2	2	6	138.8	6.5	4.9	132.3	95
	trench box light poll								
19	19	2	2	6	139.5	7.0	5.3	132.5	95
	trench box light poll								
20	20	3	2	6	140.7	7.8	5.9	132.9	96
	trench box light poll								
21	21	3	2	6	142.5	6.0	4.4	136.5	98
	trench box light poll								
22	22	4	2	6	138.9	6.4	4.8	132.5	95
	trench box light poll								
23	23	4	2	6	139.8	6.3	4.7	133.5	96
	trench box light poll								
24	24	5	2	6	140.9	7.3	5.5	133.6	96
	trench box light poll								
25	25	5	2	6	142.5	8.1	6.0	134.4	97

Datum:
S/N: **Make:** **Model:** **Last Cal. Date:**
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0127
Service Date: 08/13/22
Report Date: 09/06/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0129
Service Date: 08/14/22
Report Date: 08/19/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0067U	PENNDOT Approved Material Sample #32	ASTM D698	6.3	139.1		
2	J5211361.0067Z	PENNDOT Approved Material Sample #34	ASTM D1557	6.6	136.5		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	area 5								
1	east of light pole	-40"	1	6	142.4	7.4	5.5	135.0	97
	area 5								
2	"	-40"	1	6	140.7	6.8	5.1	133.9	96
	area 5								
3	"	-40"	1	6	138.3	6.6	5.0	131.7	95
	area 5								
4	"	-40"	1	6	139.3	7.3	5.5	132.0	95
	area 5								
5	"	-40"	1	6	139.5	6.6	5.0	132.9	96
	area 5								
6	east of garage	-40"	1	6	143.8	7.9	5.8	135.9	98
	area 5								
7	"	-40"	1	6	143.1	7.7	5.7	135.4	97
	area 5								
8	"	-40"	1	6	139.7	6.7	5.0	133.0	96
	area 5								
9	"	-40"	1	6	139.8	6.8	5.1	133.0	96
	area 5								
10	"	-40"	1	6	142.2	7.3	5.4	134.9	97
	trench box LP								
11	south	-64"	2	6	138.7	7.7	5.9	131.0	96
	trench box LP								
12	north	-64"	2	6	138.0	7.8	6.0	130.2	95
	"								
13	south	-50"	2	6	140.0	7.2	5.4	132.8	97
	"								
14	north	-50"	2	6	139.3	7.8	5.9	131.5	96

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0129
Service Date: 08/14/22
Report Date: 08/19/22
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 3								
15	west	3rd	2	6	138.3	7.8	6.0	130.5	96
	Area 3								
16	center	3rd	2	6	136.9	7.1	5.5	129.8	95
	Area 3								
17	east	3rd	2	6	141.5	7.5	5.6	134.0	98
	Area 4								
18	east	3rd	2	6	142.5	6.8	5.0	135.7	99
	Area 4								
19	east	3rd	2	6	140.8	7.8	5.9	133.0	97

Datum: 1-10 top of asphalt at garage/11,12 top of box
S/N: 70111 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 02/04/2022
Comments: Sunday 8/14/22

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0130
Service Date: 08/15/22
Report Date: 08/19/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0067Z	PENNDOT Approved Material Sample #34	ASTM D1557	6.6	136.5		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 3								
1	trench	1st	1	6	140.0	7.2	5.4	132.8	97
	Area 3								
2	trench	1st	1	6	140.3	7.3	5.5	133.0	97
	Area 3								
3	trench near endzone	1st	1	6	138.5	7.5	5.7	131.0	96
	Area 3								
4	trench near endzone	1st	1	6	137.7	6.9	5.3	130.8	96
	IFS North								
5	west		1	6	136.4	6.7	5.2	129.7	95
	IFS North								
6	west		1	6	137.1	6.4	4.9	130.7	96
	IFS North								
7	center		1	6	140.7	7.0	5.2	133.7	98
	Area 3								
8	trench	2nd	1	6	142.6	6.8	5.0	135.8	99
	Area 3								
9	trench	2nd	1	6	145.1	6.6	4.8	138.5	100+
	Area 3								
10	trench near endzone	2nd	1	6	141.8	7.1	5.3	134.7	99
	Area 3								
11	trench near endzone	2nd	1	6	138.9	7.0	5.3	131.9	97

Datum:
S/N: 70111 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 02/04/2022
Comments:

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0130
Service Date: 08/15/22
Report Date: 08/19/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0128
Service Date: 08/16/22
Report Date: 09/06/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0112A	PENNDOT Approved Material Sample #35	ASTM D698	7.1	138.0		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	FIS North								
1	1	1	1	6	140.2	7.7	5.8	132.5	96
	FIS North								
2	2	1	1	6	139.0	7.4	5.6	131.6	95
	FIS North								
3	3	1	1	6	137.9	6.7	5.1	131.2	95
	FIS North								
4	4	1	1	6	137.6	6.8	5.2	130.8	95
	FIS North								
5	5	1	1	6	138.6	7.0	5.3	131.6	95
	A3 North								
6	6	1	1	6	137.2	5.9	4.5	131.3	95
	A3 North								
7	7	1	1	6	138.2	5.8	4.4	132.4	96
	A3 North								
8	8	1	1	6	135.9	5.2	4.0	130.7	95
	A3 North								
9	9	1	1	6	137.4	5.7	4.3	131.7	95
	A3 North								
10	10	1	1	6	138.0	5.9	4.5	132.1	96
	A3 South								
11	11	1	1	6	135.9	5.1	3.9	130.8	95
	A3 South								
12	12	1	1	6	140.5	5.8	4.3	134.7	98
	A3 South								
13	13	1	1	6	136.2	5.4	4.1	130.8	95
	A3 South								
14	14	1	1	6	138.6	5.5	4.1	133.1	96
	A3 South								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0128
Service Date: 08/16/22
Report Date: 09/06/22
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
15	15	1	1	6	137.5	5.5	4.2	132.0	96
	Florida North								
16	16	1	1	6	138.3	7.2	5.5	131.1	95
	Florida North								
17	17	1	1	6	138.3	6.8	5.2	131.5	95
	Florida North								
18	18	1	1	6	137.3	6.4	4.9	130.9	95
	Florida North								
19	19	1	1	6	138.6	6.7	5.1	131.9	96
	Florida North								
20	20	1	1	6	138.9	6.9	5.2	132.0	96

Datum:
S/N: **Make:** **Model:** **Last Cal. Date:**
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0131
Service Date: 08/17/22
Report Date: 10/12/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0111B	NYSDOT approved material sample #39	ASTM D698	5.5	134.0		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	Area 3	Lift 1	1	6	133.0	5.7	4.5	127.3	95
2	Area 3	Lift 1	1	6	133.0	5.1	4.0	127.9	95
3	Area 3	Lift 1	1	6	134.9	5.6	4.3	129.3	96
4	Area 3	Lift 1	1	6	134.0	6.7	5.3	127.3	95
5	Area 3	Lift 1	1	6	134.5	5.9	4.6	128.6	96
6	Area 3	Lift 1	1	6	134.0	6.7	5.3	127.3	95
7	Area 3	Lift 1	1	6	134.6	6.2	4.8	128.4	96
8	Area 3	Lift 1	1	6	134.7	5.6	4.3	129.1	96
9	Area 3	Lift 1	1	6	136.9	6.5	5.0	130.4	97
10	Area 3	Lift 1	1	6	133.5	4.9	3.8	128.6	96
11	FIS North	Lift 1	1	6	143.7	7.0	5.1	136.7	100+
12	FIS North	Lift 1	1	6	142.3	6.8	5.0	135.5	100+
13	FIS North	Lift 1	1	6	142.0	7.8	5.8	134.2	100
14	FIS North	Lift 1	1	6	141.9	7.8	5.8	134.1	100
15	FIS North	Lift 1	1	6	141.8	6.5	4.8	135.3	100+
16	FIS North	Lift 2	1	6	142.3	7.9	5.9	134.4	100
17	FIS North	Lift 2	1	6	141.0	7.7	5.8	133.3	99
18	FIS North	Lift 1	1	6	136.5	5.9	4.5	130.6	97
19	FIS North	Lift 2	1	6	143.0	8.0	5.9	135.0	100+
20	FIS North	Lift 2	1	6	140.6	7.5	5.6	133.1	99
21	Florida	Lift 1	1	6	139.8	7.2	5.4	132.6	99
22	Florida	Lift 1	1	6	140.4	6.6	4.9	133.8	100
23	Florida	Lift 1	1	6	142.6	6.9	5.1	135.7	100+
24	Florida	Lift 1	1	6	136.3	7.0	5.4	129.3	96
25	Florida	Lift 1	1	6	139.0	5.9	4.4	133.1	99
26	FIS North	Lift 3	1	6	142.4	7.7	5.7	134.7	100+
27	FIS North	Lift 3	1	6	139.1	7.6	5.8	131.5	98
28	FIS North	Lift 3	1	6	145.6	7.6	5.5	138.0	100+
29	FIS North	Lift 3	1	6	135.2	6.3	4.9	128.9	96
30	FIS North	Lift 3	1	6	140.2	6.7	5.0	133.5	100

Datum: Top of existing grade **Std. Cnt. M:** 713 **Std. Cnt. D:** 2480
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0131
Service Date: 08/17/22
Report Date: 10/12/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec and Recon
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0132
Service Date: 08/18/22
Report Date: 08/19/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0111D	NYSDOT Approved Material Sample #40	ASTM D698	5.1	132.2		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	Florida north	1	1	6	140.0	6.5	4.9	133.5	100+
2	Florida north	1	1	6	139.7	5.9	4.4	133.8	100+
3	Florida north	1	1	6	141.5	5.7	4.2	135.8	100+
4	Florida north	1	1	6	138.3	5.2	3.9	133.1	100+
5	Florida north	1	1	6	139.9	4.7	3.5	135.2	100+
6	Area 5	1	1	6	135.4	6.6	5.1	128.8	97
7	Area5	1	1	6	132.6	7.0	5.6	125.6	95
8	Area 5	1	1	6	135.0	7.6	6.0	127.4	96
9	Area 5	1	1	6	135.9	7.7	6.0	128.2	97
10	Area 5	1	1	6	134.8	6.9	5.4	127.9	97
11	Area 4A	1	1	6	134.1	5.8	4.5	128.3	97
12	Area 4a	1	1	6	136.1	7.7	6.0	128.4	97
13	Area 4A	1	1	6	134.4	6.6	5.2	127.8	97
14	Area 4A	1	1	6	135.5	6.6	5.1	128.9	98
15	Area 4A	1	1	6	135.9	6.6	5.1	129.3	98

Datum: Final grade **Std. Cnt. M:** 754 **Std. Cnt. D:** 2488
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To: Miranda with Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0133
Service Date: 08/19/22
Report Date: 10/12/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0111B	NYSDOT approved material sample #39	ASTM D698	5.5	134.0		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	Area 5	Lift 1	1	6	136.4	6.0	4.6	130.4	97
2	Area 5	Lift 1	1	6	136.5	6.0	4.6	130.5	97
3	Area 5	Lift 1	1	6	140.1	5.6	4.2	134.5	100
4	Area 5	Lift 1	1	6	140.1	5.8	4.3	134.3	100
5	Area 5	Lift 1	1	6	136.8	6.6	5.1	130.2	97
6	Area 5	Lift 2	1	6	134.1	6.0	4.7	128.1	96
7	Area 5	Lift 2	1	6	140.9	6.2	4.6	134.7	100+
8	Area 5	Lift 2	1	6	140.0	6.0	4.5	134.0	100
9	Area 5	Lift 2	1	6	139.2	6.8	5.1	132.4	99
10	Area 5	Lift 2	1	6	138.8	7.4	5.6	131.4	98

Datum: Top of existing grade **Std. Cnt. M:** 713 **Std. Cnt. D:** 2415
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec and Recon
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0139
Service Date: 08/31/22
Report Date: 09/06/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0111F	PENNDOT Approved Material Sample 41	ASTM D698	6.8	134.9		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	SA3								
1	center	1st	1	6	140.6	7.6	5.7	133.0	99
	SA3								
2	center	1st	1	6	140.0	7.8	5.9	132.2	98
	SA3								
3	n	1st	1	6	139.0	7.9	6.0	131.1	97
	SA3								
4	e	1st	1	6	139.7	7.2	5.4	132.5	98
	SA3								
5	w	1st	1	6	141.8	8.7	6.5	133.1	99
	SA3								
6	center		1	6	141.6	8.6	6.5	133.0	99
	SA3								
7	center		1	6	137.8	7.8	6.0	130.0	96
	SA3								
8	n		1	6	139.4	8.0	6.1	131.4	97
	SA3								
9	w		1	6	139.7	7.8	5.9	131.9	98
	SA3								
10	e		1	6	138.8	8.0	6.1	130.8	97

Datum:
S/N: 70111 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 02/04/2022
Comments:

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0139
Service Date: 08/31/22
Report Date: 09/06/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0140
Service Date: 09/09/22
Report Date: 09/12/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0111H	PENNDOT Approved Material Sample #42	ASTM D698	5.0	140.8		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Central Florida								
1	center	4th	1	6	140.6	6.8	5.1	133.8	95
2	" center	4th	1	6	142.2	7.4	5.5	134.8	96
3	" center	4th	1	6	141.8	6.8	5.0	135.0	96
4	" center	4th	1	6	145.3	8.1	5.9	137.2	97
5	" center	4th	1	6	146.9	7.8	5.6	139.1	99
6	" trench/pit	1st	1	6	140.1	6.8	5.1	133.3	95
7	" trench	1st	1	6	143.5	7.5	5.5	136.0	97
8	" trench	1st	1	6	143.0	6.8	5.0	136.2	97
9	" trench	1st	1	6	143.9	8.1	6.0	135.8	96
10	" trench	1st	1	6	140.7	7.2	5.4	133.5	95
11	" north trench	2nd	1	6	141.1	7.2	5.4	133.9	95
12	" north trench	2nd	1	6	141.6	7.4	5.5	134.2	95
13	" north trench	3rd	1	6	142.0	7.4	5.5	134.6	96
14	" center trench	2nd	1	6	141.0	7.0	5.2	134.0	95
	"								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0140
Service Date: 09/09/22
Report Date: 09/12/22
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
15	center trench	2nd	1	6	141.6	6.9	5.1	134.7	96
16	north trench	3rd	1	6	142.4	7.4	5.5	135.0	96
17	north trench	3rd	1	6	143.0	7.1	5.2	135.9	97
18	center trench	3rd	1	6	141.4	7.4	5.5	134.0	95
19	center trench	3rd	1	6	145.1	8.1	5.9	137.0	97
20	center trench	3rd	1	6	146.8	7.1	5.1	139.7	99
21	center trench	3rd	1	6	143.5	6.6	4.8	136.9	97
22	center trench	3rd	1	6	141.3	7.4	5.5	133.9	95
23	north trench	4th	1	6	140.0	6.9	5.2	133.1	95
24	center trench	4th	1	6	142.9	7.6	5.6	135.3	96
25	center trench	4th	1	6	144.1	7.5	5.5	136.6	97
26	center trench	4th	1	6	143.3	7.7	5.7	135.6	96

Datum:
S/N: 70111 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 02/04/2022
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0141
Service Date: 09/10/22
Report Date: 09/12/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0111J	PENNDOT Approved Material Sample #43	ASTM D698	6.0	140.0		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	central florida								
1	north trench/pit	5th	1	6	141.3	7.4	5.5	133.9	96
	central florida								
2	north trench/pit	to subgr	1	6	140.3	7.3	5.5	133.0	95

Datum:
S/N: 70111 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 02/04/2022
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0143
Service Date: 09/12/22
Report Date: 10/12/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0111L	PENNDOT Approved Material Sample #44	ASTM D698	6.1	138.9		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	Florida	Lift 1	1	6	142.0	9.5	7.2	132.5	95
2	Florida	Lift 1	1	6	143.2	10.1	7.6	133.1	96
3	Florida	Lift 1	1	6	141.5	10.1	7.7	131.4	95
4	Florida	Lift 1	1	6	142.6	9.8	7.4	132.8	96
5	Florida	Lift 1	1	6	141.9	10.3	7.8	131.6	95
6	Florid	Lift 1	1	6	145.2	10.9	8.1	134.3	97
7	Florida	Lift 1	1	6	142.5	9.3	7.0	133.2	96
8	Florida	Lift 2	1	6	142.5	9.3	7.0	133.2	96
9	Florida	Lift 2	1	6	145.2	9.9	7.3	135.3	97
10	Florida	Lift 2	1	6	143.3	9.5	7.1	133.8	96
11	Florida	Lift 2	1	6	142.4	10.7	8.1	131.7	95
12	Florida	Lift 2	1	6	144.2	10.8	8.1	133.4	96
13	Florida	Lift 2	1	6	142.4	9.1	6.8	133.3	96
14	Florida	Lift 2	1	6	143.9	10.2	7.6	133.7	96
15	Florida	Lift 2	1	6	143.2	10.0	7.5	133.2	96
16	Florida	Lift 2	1	6	145.5	10.4	7.7	135.1	97
17	Florida	Lift 2	1	6	144.3	9.6	7.1	134.7	97

Datum: Top of existing grade **Std. Cnt. M:** 715 **Std. Cnt. D:** 2416
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec and Recon
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0144
Service Date: 09/13/22
Report Date: 09/15/22
Task:

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

				Lab Test Data		Project Requirements	
Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Opt. Water Content (%)	Max. Lab Density (pcf)	Water Content (%)	Compaction (%)
1	J5211361.0111P	PENNDOT Approved Material Sample #46	ASTM D698	5.7	142.6		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	1	-2	1	6	146.7	7.5	5.4	139.2	98
2	2	-2	1	6	146.3	7.9	5.7	138.4	97
3	3	-2	1	6	147.1	7.7	5.5	139.4	98
4	4	-2	1	6	150.2	7.0	4.9	143.2	100
5	5	-2	1	6	150.3	7.7	5.4	142.6	100

Datum: Final grade **Std. Cnt. M:** 641 **Std. Cnt. D:** 2297
S/N: 70546 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/31/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To: Miranda with Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0145
Service Date: 09/14/22
Report Date: 10/12/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0125H	PENNDOT Approved Material Sample #51	ASTM D698	5.6	140.1		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	Florida	Lift 1	1	6	143.4	10.0	7.5	133.4	95
2	Florida	Lift 1	1	6	144.8	11.0	8.2	133.8	96
3	Florida	Lift 1	1	6	145.5	9.8	7.2	135.7	97
4	Florida	Lift 1	1	6	145.9	8.5	6.2	137.4	98
5	Florida	Lift 1	1	6	143.6	8.9	6.6	134.7	96
6	Florida	Lift 2	1	6	143.6	7.6	5.6	136.0	97
7	Florida	Lift 2	1	6	143.6	9.6	7.2	134.0	96
8	Florida	Lift 2	1	6	139.6	6.4	4.8	133.2	95
9	Florida	Lift 2	1	6	142.2	7.2	5.3	135.0	96
10	Florida	Lift 2	1	6	141.6	7.8	5.8	133.8	96

Datum: Top of existing grade **Std. Cnt. M:** 758 **Std. Cnt. D:** 2685
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec and Recon
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0146
Service Date: 09/15/22
Report Date: 09/19/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0125B	PENNDOT Approved Material Sample #48	ASTM D698	5.3	140.8		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Truck ramp in Florida								
1	1	1	1	6	146.0	8.0	5.8	138.0	98
	Truck ramp in Florida								
2	2	1	1	6	149.9	10.2	7.3	139.7	99
	Truck ramp in Florida								
3	3	1	1	6	142.9	7.7	5.7	135.2	96
	Truck ramp in Florida								
4	4	1	1	6	144.3	8.0	5.9	136.3	97
	Truck ramp in Florida								
5	5	1	1	6	146.8	9.0	6.5	137.8	98
	Truck ramp in Florida								
6	6	2	1	6	145.5	9.1	6.7	136.4	97
	Truck ramp in Florida								
7	7	2	1	6	151.2	8.6	6.0	142.6	100+
	Truck ramp in Florida								
8	8	2	1	6	149.1	8.2	5.8	140.9	100
	Truck ramp in Florida								
9	9	2	1	6	150.0	8.8	6.2	141.2	100
	Truck ramp in Florida								
10	10	2	1	6	148.1	8.5	6.1	139.6	99
	Truck ramp in Florida								
11	11	3	1	6	144.8	8.1	5.9	136.7	97
	Truck ramp in Florida								
12	12	3	1	6	143.9	8.4	6.2	135.5	96
	Truck ramp in Florida								
13	13	3	1	6	141.2	6.7	5.0	134.5	96
	Truck ramp in Florida								
14	14	3	1	6	147.3	7.4	5.3	139.9	99
	Truck ramp in Florida								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0146
Service Date: 09/15/22
Report Date: 09/19/22
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
15	15	3	1	6	147.9	7.8	5.6	140.1	100
16	16	4	1	6	143.7	7.2	5.3	136.5	97
17	17	4	1	6	141.9	7.5	5.6	134.4	95
18	18	4	1	6	145.8	7.2	5.2	138.6	98
19	19	4	1	6	146.6	7.5	5.4	139.1	99
20	20	4	1	6	143.7	7.0	5.1	136.7	97

Datum: Final grade **Std. Cnt. M:** 615 **Std. Cnt. D:** 2127
S/N: 71758 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 02/04/2022
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To: Miranda with Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0147
Service Date: 09/16/22
Report Date: 11/08/22 Revision 1 -
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0125H	PENNDOT Approved Material Sample #51	ASTM D698	5.6	140.1		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	Florida	Lift 1	1	6	141.7	6.9	5.1	134.8	96
2	Flordia	Lift 1	1	6	142.4	7.2	5.3	135.2	97
3	Flordia	Lift 1	1	6	139.8	6.4	4.8	133.4	95
4	Florida	Lift 1	1	6	142.9	6.8	5.0	136.1	97
5	Florida	Lift 1	1	6	140.3	6.2	4.6	134.1	96
6	Florida	Lift 1	1	6	143.3	7.1	5.2	136.2	97
7	Florida	Lift 1	1	6	142.6	7.2	5.3	135.4	97
8	Florida	Lift 1	1	6	143.4	6.7	4.9	136.7	98
9	Florida	Lift 1	1	6	144.0	7.5	5.5	136.5	97
10	Florida	Lift 1	1	6	140.8	6.7	5.0	134.1	96
11	Florida	Lift 1	1	6	144.7	6.5	4.7	138.2	99
12	Florida	Lift 1	1	6	144.8	7.7	5.6	137.1	98
13	Florida	Lift 1	1	6	145.9	7.1	5.1	138.8	99
14	Florida	Lift 1	1	6	143.4	7.0	5.1	136.4	97
15	Florida	Lift 1	1	6	145.6	7.3	5.3	138.3	99

Datum: Top of existing grade **Std. Cnt. M:** 776 **Std. Cnt. D:** 2717
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec and Recon
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By:
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0148
Service Date: 09/19/22
Report Date: 09/26/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0125C	PENNDOT Approved material Sample #49	ASTM D698	5.0	140.8		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	UST								
1	1	4	1	6	139.9	5.6	4.2	134.3	95
	UST								
2	2	4	1	6	146.4	5.2	3.7	141.2	100
	UST								
3	3	4	1	6	149.6	6.0	4.2	143.6	100+
	UST								
4	4	4	1	6	145.6	5.9	4.2	139.7	99
	UST								
5	5	4	1	6	139.3	5.5	4.1	133.8	95
	Florida west								
6	6	-.5	1	6	140.2	5.5	4.1	134.7	96
	Florida west								
7	7	-.5	1	6	143.5	5.8	4.2	137.7	98
	Florida west								
8	8	-.5	1	6	144.4	5.4	3.9	139.0	99
	Florida west								
9	9	-.5	1	6	144.9	5.0	3.6	139.9	99
	Florida west								
10	10	-.5	1	6	142.4	5.2	3.8	137.2	97
	UST								
11	11	5	1	6	145.7	6.8	4.9	138.9	99
	UST								
12	12	5	1	6	142.5	5.7	4.2	136.8	97
	UST								
13	13	5	1	6	147.0	6.6	4.7	140.4	100
	UST								
14	14	5	1	6	144.6	6.2	4.5	138.4	98
	UST								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0148
Service Date: 09/19/22
Report Date: 09/26/22
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
15	15	5	1	6	146.1	6.2	4.4	139.9	99
	UST								
16	16	6	1	6	142.5	7.7	5.7	134.8	96
	UST								
17	17	6	1	6	143.6	6.6	4.8	137.0	97
	UST								
18	18	6	1	6	142.2	6.3	4.6	135.9	97
	UST								
19	19	6	1	6	144.8	6.8	4.9	138.0	98
	UST								
20	20	6	1	6	140.5	6.3	4.7	134.2	95
	UST								
21	21	7	1	6	142.6	6.4	4.7	136.2	97
	UST								
22	22	7	1	6	147.4	7.0	5.0	140.4	100
	UST								
23	23	7	1	6	150.9	7.3	5.1	143.6	100+
	UST								
24	24	7	1	6	141.0	6.1	4.5	134.9	96
	UST								
25	25	7	1	6	142.5	6.4	4.7	136.1	97

Datum:
S/N: **Make:** **Model:** **Last Cal. Date:**
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0150
Service Date: 09/20/22
Report Date: 09/26/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0125F	PENNDOT Approved material Sample #50	ASTM D698	4.6	141.8		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	UST								
1	1	8	1	6	144.5	8.6	6.3	135.9	96
	UST								
2	2	8	1	6	149.5	8.1	5.7	141.4	100
	UST								
3	3	8	1	6	149.3	8.6	6.1	140.7	99
	UST								
4	4	8	1	6	152.2	9.0	6.3	143.2	100+
	UST								
5	5	8	1	6	148.1	8.6	6.2	139.5	98
	UST								
6	6	9	1	6	148.1	7.5	5.3	140.6	99
	UST								
7	7	9	1	6	145.6	7.7	5.6	137.9	97
	UST								
8	8	9	1	6	150.8	7.7	5.4	143.1	100+
	UST								
9	9	9	1	6	149.2	9.4	6.7	139.8	99
	UST								
10	10	9	1	6	149.0	7.2	5.1	141.8	100
	UST								
11	11	10	1	6	141.6	5.4	4.0	136.2	96
	UST								
12	12	10	1	6	141.0	6.3	4.7	134.7	95
	UST								
13	13	10	1	6	147.6	6.6	4.7	141.0	99
	UST								
14	14	10	1	6	144.7	6.0	4.3	138.7	98
	UST								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0150
Service Date: 09/20/22
Report Date: 09/26/22
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
15	15	10	1	6	147.6	5.5	3.9	142.1	100
	UST								
16	16	11	1	6	141.0	6.2	4.6	134.8	95
	UST								
17	17	11	1	6	143.1	5.4	3.9	137.7	97
	UST								
18	18	11	1	6	139.4	4.3	3.2	135.1	95
	UST								
19	19	11	1	6	144.8	5.3	3.8	139.5	98
	UST								
20	20	11	1	6	140.5	5.4	4.0	135.1	95

Datum:
S/N: **Make:** **Model:** **Last Cal. Date:**
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0151
Service Date: 09/21/22
Report Date: 09/22/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0125H	PENNDOT Approved Material Sample #51	ASTM D698	5.6	140.1		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	S. Florida								
1	small pit	-10	1	6	140.5	6.8	5.1	133.7	95
	"								
2	"	-10	1	6	140.8	7.1	5.3	133.7	95
	"								
3	"	-10	1	6	139.7	6.7	5.0	133.0	95
	"								
4	"	-10	1	6	141.3	7.1	5.3	134.2	96
	"								
5	"	-10	1	6	139.7	7.0	5.3	132.7	95
	"								
6	near tennis court	-14	1	6	142.9	6.9	5.1	136.0	97
	"								
7	"	-14	1	6	145.5	7.6	5.5	137.9	98
	"								
8	"	-14	1	6	147.4	7.4	5.3	140.0	100
	"								
9	"	-14	1	6	146.6	7.4	5.3	139.2	99
	"								
10	"	-14	1	6	145.6	7.1	5.1	138.5	99
	"								
11	"	-13	1	6	145.5	6.5	4.7	139.0	99
	"								
12	"	-13	1	6	148.3	7.6	5.4	140.7	100
	"								
13	"	-13	1	6	146.1	7.0	5.0	139.1	99
	"								
14	"	-13	1	6	141.3	6.6	4.9	134.7	96
	"								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0151
Service Date: 09/21/22
Report Date: 09/22/22
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
15	"	-13	1	6	141.6	6.6	4.9	135.0	96
16	small pit	-9	1	6	141.9	6.9	5.1	135.0	96
17	"	-9	1	6	142.7	6.8	5.0	135.9	97
18	"	-9	1	6	140.9	7.3	5.5	133.6	95
19	"	-9	1	6	140.8	6.6	4.9	134.2	96
20	"	-9	1	6	140.7	6.8	5.1	133.9	96
21	near tennis courts	-12	1	6	139.7	6.7	5.0	133.0	95
22	"	-12	1	6	139.9	7.2	5.4	132.7	95
23	"	-12	1	6	144.0	7.5	5.5	136.5	97
24	"	-12	1	6	141.8	7.4	5.5	134.4	96
25	"	-12	1	6	141.3	7.9	5.9	133.4	95
26	near tennis courts	-11	1	6	139.6	6.4	4.8	133.2	95
27	"	-11	1	6	140.6	6.8	5.1	133.8	96
28	"	-11	1	6	139.7	7.2	5.4	132.5	95
29	"	-11	1	6	139.5	6.6	5.0	132.9	95
30	"	-11	1	6	140.9	7.0	5.2	133.9	96
31	near tennis courts	-10	1	6	141.9	6.9	5.1	135.0	96
32	"	-10	1	6	146.0	7.1	5.1	138.9	99

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0151
Service Date: 09/21/22
Report Date: 09/22/22
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	"								
33	"	-10	1	6	145.3	7.2	5.2	138.1	99
	"								
34	"	-10	1	6	144.1	7.0	5.1	137.1	98
	"								
35	"	-10	1	6	139.8	6.8	5.1	133.0	95
	"								
36	near tennis courts	-9	1	6	140.7	7.2	5.4	133.5	95
	"								
37	"	-9	1	6	141.1	7.2	5.4	133.9	96
	"								
38	"	-9	1	6	143.1	7.1	5.2	136.0	97
	"								
39	"	-9	1	6	143.9	7.0	5.1	136.9	98
	"								
40	"	-9	1	6	140.5	7.2	5.4	133.3	95
	"								
41	near tennis courts	-8	1	6	141.4	7.4	5.5	134.0	96
	"								
42	"	-8	1	6	143.6	7.4	5.4	136.2	97
	"								
43	"	-8	1	6	143.9	7.0	5.1	136.9	98
	"								
44	"	-8	1	6	140.7	6.7	5.0	134.0	96
	"								
45	"	-8	1	6	143.6	6.8	5.0	136.8	98
	"								
46	near tennis courts	-7	1	6	141.4	7.6	5.7	133.8	96
	"								
47	"	-7	1	6	140.7	7.8	5.9	132.9	95
	"								
48	"	-7	1	6	140.8	7.8	5.9	133.0	95
	"								
49	"	-7	1	6	140.3	7.6	5.7	132.7	95

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0151
Service Date: 09/21/22
Report Date: 09/22/22
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	"								
50	"	-7	1	6	141.3	7.4	5.5	133.9	96

Datum: provided by contractor
S/N: 70111 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 02/04/2022
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0153
Service Date: 09/23/22
Report Date: 09/26/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0125J	PENNDOT Approved Material Sample #52	ASTM D698	4.6	140.2		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	Southwest hole 1	1	1	6	141.8	7.5	5.6	134.3	96
2	Southwest hole 2	2	1	6	145.1	6.9	5.0	138.2	99
3	Southwest hole 3	2	1	6	140.0	6.8	5.1	133.2	95
4	Southwest hole 4	3	1	6	151.3	8.4	5.9	142.9	100+
5	Southwest hole 5	3	1	6	147.4	9.1	6.6	138.3	99
6	Southwest hole 6	3	1	6	149.0	7.8	5.5	141.2	100+
7	Southwest hole 7	4	1	6	150.6	7.7	5.4	142.9	100+
8	Southwest hole 8	4	1	6	145.2	7.7	5.6	137.5	98
9	Southwest hole 9	4	1	6	149.2	8.3	5.9	140.9	100
10	Southwest hole 10	4	1	6	146.8	9.0	6.5	137.8	98
11	Southwest hole 11	5	1	6	141.4	7.1	5.3	134.3	96
12	Southwest hole 12	5	1	6	140.4	6.7	5.0	133.7	95
13	Southwest hole 13	5	1	6	146.4	7.1	5.1	139.3	99
14	Southwest hole 14	5	1	6	144.5	6.5	4.7	138.0	98

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0153
Service Date: 09/23/22
Report Date: 09/26/22
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
15	15	5	1	6	145.9	5.9	4.2	140.0	100
	Florida south								
16	16	-5	1	6	148.2	7.6	5.4	140.6	100
	Florida south								
17	17	-5	1	6	147.7	7.3	5.2	140.4	100
	Florida south								
18	18	-5	1	6	145.5	7.2	5.2	138.3	99
	Florida south								
19	19	-5	1	6	140.9	6.7	5.0	134.2	96
	Florida south								
20	20	-5	1	6	143.5	7.9	5.8	135.6	97

Datum:
S/N: **Make:** **Model:** **Last Cal. Date:**
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0154
Service Date: 09/24/22
Report Date: 10/12/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0125L	PENNDOT Approved Material Sample #53	ASTM D698	6.0	140.5		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	Florida	Lift 1	1	6	142.0	8.3	6.2	133.7	95
2	Florida	Lift 1	1	6	144.1	7.6	5.6	136.5	97
3	Florida	Lift 1	1	6	144.6	7.8	5.7	136.8	97
4	Florida	Lift 1	1	6	140.6	7.5	5.6	133.1	95
5	Florida	Lift 1	1	6	143.3	8.5	6.3	134.8	96
6	Florida	Lift 1	1	6	148.1	8.0	5.7	140.1	100
7	Florida	Lift 1	1	6	146.0	8.5	6.2	137.5	98
8	Florida	Lift 1	1	6	145.5	8.0	5.8	137.5	98
9	Flordia	Lift 1	1	6	144.2	7.4	5.4	136.8	97
10	Florida	Lift 1	1	6	149.2	9.2	6.6	140.0	100

Datum: Top of existing grade **Std. Cnt. M:** 765 **Std. Cnt. D:** 2731
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec and Recon
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0155
Service Date: 09/25/22
Report Date: 10/12/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0125J	PENNDOT Approved Material Sample #52	ASTM D698	4.6	140.2		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	Southwest hole 1	1	1	6	141.8	7.5	5.6	134.3	96
2	Southwest hole 2	2	1	6	145.1	6.9	5.0	138.2	99
3	Southwest hole 3	2	1	6	140.0	6.8	5.1	133.2	95
4	Southwest hole 4	3	1	6	151.3	8.4	5.9	142.9	100+
5	Southwest hole 5	3	1	6	147.4	9.1	6.6	138.3	99
6	Southwest hole 6	3	1	6	149.0	7.8	5.5	141.2	100+
7	Southwest hole 7	4	1	6	150.6	7.7	5.4	142.9	100+
8	Southwest hole 8	4	1	6	145.2	7.7	5.6	137.5	98
9	Southwest hole 9	4	1	6	149.2	8.3	5.9	140.9	100
10	Southwest hole 10	4	1	6	146.8	9.0	6.5	137.8	98
11	Southwest hole 11	5	1	6	141.4	7.1	5.3	134.3	96
12	Southwest hole 12	5	1	6	140.4	6.7	5.0	133.7	95
13	Southwest hole 13	5	1	6	146.4	7.1	5.1	139.3	99
14	Southwest hole 14	5	1	6	144.5	6.5	4.7	138.0	98

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0155
Service Date: 09/25/22
Report Date: 10/12/22
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
15	15	5	1	6	145.9	5.9	4.2	140.0	100
	Florida south								
16	16	-5	1	6	148.2	7.6	5.4	140.6	100
	Florida south								
17	17	-5	1	6	147.7	7.3	5.2	140.4	100
	Florida south								
18	18	-5	1	6	145.5	7.2	5.2	138.3	99
	Florida south								
19	19	-5	1	6	140.9	6.7	5.0	134.2	96
	Florida south								
20	20	-5	1	6	143.5	7.9	5.8	135.6	97

Datum:
S/N: **Make:** **Model:** **Last Cal. Date:**
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0156
Service Date: 09/27/22
Report Date: 09/28/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0125L	PENNDOT Approved Material Sample #53	ASTM D698	6.0	140.5		
2	J5211361.0125N	PENNDOT Approved Material Sample #54	ASTM D698	6.5	138.7		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	florida								
1	east of light pole	-4	1	6	145.9	8.9	6.5	137.0	98
2	"	-4	1	6	146.2	8.9	6.5	137.3	98
3	"	-4	1	6	145.1	8.3	6.1	136.8	97
4	"	-4	1	6	146.4	8.7	6.3	137.7	98
5	"	-4	1	6	147.2	9.0	6.5	138.2	98
6	"	-3	2	6	146.5	8.7	6.3	137.8	99
7	"	-3	2	6	148.4	8.9	6.4	139.5	100+
8	"	-3	2	6	146.8	9.0	6.5	137.8	99
9	"	-3	2	6	145.8	9.2	6.7	136.6	98
10	"	-3	2	6	144.1	8.8	6.5	135.3	98
11	trench by light pole	-6	2	6	140.9	8.2	6.2	132.7	96
12	"	-6	2	6	141.8	8.0	6.0	133.8	96
13	"	-6	2	6	140.4	7.4	5.6	133.0	96
14	"	-6	2	6	144.0	8.0	5.9	136.0	98

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0156
Service Date: 09/27/22
Report Date: 09/28/22
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	"								
15	"	-10	2	6	143.2	8.2	6.1	135.0	97
	"								
16	"	-5	2	6	144.7	8.7	6.4	136.0	98
	"								
17	"	-5	2	6	146.8	9.1	6.6	137.7	99
	"								
18	east of lightpole	-5	2	6	140.2	7.2	5.4	133.0	96
	"								
19	"	-5	2	6	144.8	7.8	5.7	137.0	99
	"								
20	"	-5	2	6	144.3	6.9	5.0	137.4	99
	"								
21	"	-5	2	6	144.9	7.6	5.5	137.3	99
	"								
22	"	-5	2	6	144.5	7.5	5.5	137.0	99
	"								
23	"	-4	2	6	145.8	9.2	6.7	136.6	98
	"								
24	"	-4	2	6	143.0	8.7	6.5	134.3	97
	"								
25	"	-4	2	6	140.1	8.1	6.1	132.0	95
	"								
26	"	-4	2	6	141.9	8.9	6.7	133.0	96
	"								
27	"	-4	2	6	142.3	8.7	6.5	133.6	96

Datum: from Recon.
S/N: 70111 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 02/04/2022
Comments:

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0156
Service Date: 09/27/22
Report Date: 09/28/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0157
Service Date: 09/28/22
Report Date: 10/12/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0125P	PENNDOT Approved Material Sample #55	ASTM D698	6.2	138.4		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	South Florida								
1	1	1	1	6	149.7	9.7	6.9	140.0	100+
	South Florida								
2	2	1	1	6	147.7	8.8	6.3	138.9	100
	South Florida								
3	3	1	1	6	142.3	6.9	5.1	135.4	98
	South Florida								
4	4	1	1	6	140.7	7.6	5.7	133.1	96
	South Florida								
5	5	1	1	6	139.2	5.1	3.8	134.1	97
	North of light post								
6	6	1	1	6	144.1	8.9	6.6	135.2	98
	North of light post								
7	7	1	1	6	140.7	7.5	5.6	133.2	96
	North of light post								
8	8	1	1	6	143.5	9.3	6.9	134.2	97

Datum:
S/N: **Make:** **Model:** **Last Cal. Date:**
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0159
Service Date: 09/30/22
Report Date: 10/04/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0125P	PENNDOT Approved Material Sample #55	ASTM D698	6.2	138.4		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	so. florida								
1	trench south of light pole	-6	1	6	147.4	8.5	6.1	138.9	100
	"								
2	"	-6	1	6	146.6	7.5	5.4	139.1	100+
	"								
3	"	-6	1	6	145.7	7.7	5.6	138.0	100
	"								
4	"	-5	1	6	144.3	7.8	5.7	136.5	99
	"								
5	"	-5	1	6	143.9	8.3	6.1	135.6	98
	"								
6	"	-5	1	6	142.7	7.6	5.6	135.1	98
	"								
7	west of light pole	-4	1	6	144.3	8.3	6.1	136.0	98
	"								
8	"	-4	1	6	147.9	8.9	6.4	139.0	100
	"								
9	"	-4	1	6	146.9	8.4	6.1	138.5	100
	"								
10	"	-4	1	6	145.4	8.2	6.0	137.2	99
	"								
11	"	-4	1	6	145.8	9.4	6.9	136.4	99
	"								
12	trench south of light pole	-4	1	6	146.4	9.1	6.6	137.3	99
	"								
13	"	-4	1	6	146.9	8.4	6.1	138.5	100
	"								
14	"	-4	1	6	146.3	8.3	6.0	138.0	100
	"								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0159
Service Date: 09/30/22
Report Date: 10/04/22
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
15	south of light pole	-3	1	6	144.9	8.6	6.3	136.3	98
16	"	-3	1	6	143.6	8.3	6.1	135.3	98
17	"	-3	1	6	138.9	7.2	5.5	131.7	95
18	"	-3	1	6	138.8	7.1	5.4	131.7	95
19	"	-3	1	6	139.5	7.5	5.7	132.0	95

Datum: per Recon, feet below finish sg
S/N: 70111 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 02/04/2022
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0160
Service Date: 10/01/22
Report Date: 10/04/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0125R	PENNDOT Approved Material Sample #56	ASTM D698	6.1	140.2		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	south florida								
1	north of tennis courts		1	6	139.2	5.5	4.1	133.7	95
	"								
2	"		1	6	140.7	6.8	5.1	133.9	96
	"								
3	"		1	6	144.1	5.7	4.1	138.4	99
	"								
4	"		1	6	140.8	6.7	5.0	134.1	96
	"								
5	"		1	6	140.0	6.8	5.1	133.2	95
	"								
6	"		1	6	140.4	6.7	5.0	133.7	95
	"								
7	"		1	6	140.9	5.9	4.4	135.0	96
	"								
8	"		1	6	139.4	6.3	4.7	133.1	95
	"								
9	"		1	6	140.6	6.6	4.9	134.0	96
	"								
10	"		1	6	140.3	6.6	4.9	133.7	95

Datum: provided by Recon
S/N: 70111 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 02/04/2022
Comments: This days work completed on Sunday

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0160
Service Date: 10/01/22
Report Date: 10/04/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0161
Service Date: 10/03/22
Report Date: 10/04/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0125S	PENNDOT Approved Material Sample #57	ASTM D698	5.6	138.9		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	south florida								
1	north of tennis courts	-1.5	1	6	139.4	5.7	4.3	133.7	96
2	"	-1.5	1	6	137.8	5.8	4.4	132.0	95
3	"	-1.5	1	6	139.7	6.8	5.1	132.9	96
4	"	-1.5	1	6	140.2	7.1	5.3	133.1	96
5	"	-1.5	1	6	140.4	7.2	5.4	133.2	96
6	trench south of light pole, west of water line	-7	1	6	139.8	6.9	5.2	132.9	96
7	"	-7	1	6	138.7	7.1	5.4	131.6	95
8	"	-7	1	6	139.0	7.1	5.4	131.9	95
9	north tennis, along road	-1	1	6	138.9	6.9	5.2	132.0	95
10	"	-1	1	6	139.9	6.8	5.1	133.1	96
11	"	-1	1	6	137.9	6.6	5.0	131.3	95

Datum: elevation as provided by Recon
S/N: 70111 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 02/04/2022
Comments:

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0161
Service Date: 10/03/22
Report Date: 10/04/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0163
Service Date: 10/05/22
Report Date: 10/24/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0135B	PENNDOT Approved Material Sample #58	ASTM D698	6.0	139.1		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	South Center Florida								
1	1	1	1	6	141.3	7.7	5.8	133.6	96
	South Center Florida								
2	2	2	1	6	139.9	7.9	6.0	132.0	95
	South Center Florida								
3	3	1	1	6	140.6	8.5	6.4	132.1	95
	South Center Florida								
4	4	1	1	6	145.4	8.4	6.1	137.0	98
	South Center Florida								
5	5	1	1	6	145.3	8.1	5.9	137.2	99

Datum: Final grade **Std. Cnt. M:** 628 **Std. Cnt. D:** 2100
S/N: 70546 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/31/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To: Miranda with Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0164
Service Date: 10/06/22
Report Date: 10/31/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0135B	PENNDOT Approved Material Sample #58	ASTM D698	6.0	139.1		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Trench east Florida								
1	1	1	1	6	144.6	7.5	5.5	137.1	99
	Trench east florida								
2	2	1	1	6	142.5	6.0	4.4	136.5	98
	Trench Florida east								
3	3	1	1	6	146.9	7.8	5.6	139.1	100
	Trench east florida								
4	4	1	1	6	140.7	6.4	4.8	134.3	97
	Trench east florida								
5	5	1	1	6	145.1	6.5	4.7	138.6	100
	East florida								
6	6	1	1	6	138.6	6.7	5.1	131.9	95
	East florida								
7	7	1	1	6	142.2	6.8	5.0	135.4	97
	East florida								
8	8	1	1	6	140.7	8.5	6.4	132.2	95
	East florida								
9	9	1	1	6	140.9	7.1	5.3	133.8	96
	East florida								
10	10	1	1	6	145.0	8.2	6.0	136.8	98
	East florida								
11	11	2	1	6	142.1	8.0	6.0	134.1	96
	East florida								
12	12	2	1	6	142.7	6.8	5.0	135.9	98
	East florida								
13	13	2	1	6	141.9	6.9	5.1	135.0	97
	East florida								
14	14	2	1	6	144.2	7.8	5.7	136.4	98
	East florida								

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FIELD DENSITY TEST REPORT

Report Number: J5211361.0164
Service Date: 10/06/22
Report Date: 10/31/22
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
15	15	2	1	6	144.2	7.8	5.7	136.4	98
	East florida								
16	16	3	1	6	141.8	6.8	5.0	135.0	97
	East florida								
17	17	3	1	6	142.0	7.5	5.6	134.5	97
	East florida								
18	18	3	1	6	139.9	7.4	5.6	132.5	95
	East florida								
19	19	3	1	6	140.1	7.4	5.6	132.7	95
	East florida								
20	20	3	1	6	141.0	7.5	5.6	133.5	96
	East florida								
21	21	5	1	6	142.5	7.3	5.4	135.2	97
	East florida								
22	22	4	1	6	143.9	7.5	5.5	136.4	98
	East florida								
23	23	4	1	6	141.2	7.6	5.7	133.6	96
	East florida								
24	24	4	1	6	142.3	7.8	5.8	134.5	97
	East florida								
25	25	4	1	6	141.7	9.4	7.1	132.3	95

Datum: Final grade **Std. Cnt. M:** 628 **Std. Cnt. D:** 2100
S/N: 70546 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/31/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To: Miranda with Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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FIELD DENSITY TEST REPORT

Report Number: J5211361.0166
Service Date: 10/07/22
Report Date: 10/24/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0135D	PENNDOT Approved Material Sample #59	ASTM D698	5.4	140.0		
2	J5211361.0135F	PENNDOT Approved Material Sample #60	ASTM D698	5.5	138.9		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	**FE South** 1	1	1	6	140.0	6.2	4.6	133.8	96
2	**FE South** 2	1	1	6	141.2	6.6	4.9	134.6	96
3	**FE South** 3	1	1	6	141.1	6.5	4.8	134.6	96
4	**FE South** 4	1	1	6	142.0	7.9	5.9	134.1	96
5	**FE South** 5	1	1	6	143.8	7.8	5.7	136.0	97
6	**FE North** 6	1	2	6	139.6	7.7	5.8	131.9	95
7	**FE North** 7	1	2	6	140.0	7.8	5.9	132.2	95
8	**FE North** 8	1	2	6	139.0	6.5	4.9	132.5	95
9	**FE North** 9	1	2	6	140.0	7.3	5.5	132.7	96
10	**FE North** 10	1	2	6	140.2	7.2	5.4	133.0	96

Datum: Final grade **Std. Cnt. M:** 628 **Std. Cnt. D:** 2100
S/N: 70546 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/31/2021
Comments:

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FIELD DENSITY TEST REPORT

Report Number: J5211361.0166
Service Date: 10/07/22
Report Date: 10/24/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To: Miranda with Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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FIELD DENSITY TEST REPORT

Report Number: J5211361.0167
Service Date: 10/08/22
Report Date: 10/13/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0135H	PENNDOT Approved Material Sample #61	ASTM D698	6.6	140.1		
2	J5211361.0135J	PENNDOT Approved Material Sample #62	ASTM D698	5.4	140.4		
3	J5211361.0135L	PENNDOT Approved Material Sample #63	ASTM D698	5.7	140.8		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	nw florida								
1	near road n	fsg	2	6	141.5	6.9	5.1	134.6	96
	"								
2	near road e	fsg	2	6	143.7	7.4	5.4	136.3	97
	"								
3	center	fsg	2	6	141.5	7.4	5.5	134.1	96
	"								
4	south	fsg	2	6	140.5	6.9	5.2	133.6	95
	"								
5	east	fsg	2	6	140.4	6.8	5.1	133.6	95
	central florida								
6	east of mw	fsg	3	6	140.9	7.1	5.3	133.8	95
	"								
7	east of mw	fsg	3	6	143.0	7.3	5.4	135.7	96
	"								
8	n of mw	fsg	3	6	142.3	7.3	5.4	135.0	96
	"								
9	n of mw	fsg	3	6	142.7	6.3	4.6	136.4	97
	"								
10	s of mw	fsg	3	6	142.3	6.8	5.0	135.5	96

Datum: FSG - final sg
S/N: 70111 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 02/04/2022
Comments:

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FIELD DENSITY TEST REPORT

Report Number: J5211361.0167
Service Date: 10/08/22
Report Date: 10/13/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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FIELD DENSITY TEST REPORT

Report Number: J5211361.0168
Service Date: 10/10/22
Report Date: 10/13/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0135N	PENNDOT Approved Material Sample #64	ASTM D698	5.5	140.3		
2	J5211361.0135L	PENNDOT Approved Material Sample #63	ASTM D698	5.7	140.8		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Florida								
1	NE	fsg	2	6	140.6	6.8	5.1	133.8	95
	"								
2	NE	fsg	2	6	141.2	7.2	5.4	134.0	95
	"								
3	NE	fsg	2	6	144.4	7.5	5.5	136.9	97
	"								
4	East, near light pole	fsg	2	6	140.2	6.7	5.0	133.5	95
	"								
5	East, near light pole	fsg	2	6	141.0	6.8	5.1	134.2	95
	S. Florida								
6	near water line/tennis courts	fsg	1	6	143.5	7.5	5.5	136.0	97
	"								
7	near water line/ tennis courts	fsg	1	6	143.1	7.3	5.4	135.8	97
	"								
8	near water line/tennis courts	fsg	1	6	141.7	6.9	5.1	134.8	96
	"								
9	near water line/tennis courts	fsg	1	6	139.8	6.7	5.0	133.1	95
	"								
10	near water line/tennis courts	fsg	1	6	142.5	7.2	5.3	135.3	96
	E. Florida								
11	light pole	fsg	1	6	142.8	6.8	5.0	136.0	97
12	light pole	fsg	1	6	140.4	6.7	5.0	133.7	95
13	central	fsg	1	6	141.4	7.4	5.5	134.0	96
14	north	fsg	1	6	141.9	7.1	5.3	134.8	96
15	north	fsg	1	6	140.0	6.7	5.0	133.3	95

Datum: final sub grade
S/N: 71272 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 02/04/2022
Comments:

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FIELD DENSITY TEST REPORT

Report Number: J5211361.0168
Service Date: 10/10/22
Report Date: 10/13/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0169
Service Date: 10/26/22
Report Date: 10/31/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0136B	PENNDOT Approved Material Sample #65	ASTM D698	5.8	138.9		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 6 FIS								
1	east	-7	1	6	142.6	6.9	5.1	135.7	98
2	" east	-7	1	6	140.2	6.7	5.0	133.5	96
3	" center	-7	1	6	146.6	7.6	5.5	139.0	100
4	" center	-7	1	6	142.2	7.7	5.7	134.5	97
5	" west	-7	1	6	139.2	6.9	5.2	132.3	95
6	" west	-7	1	6	139.9	7.0	5.3	132.9	96
7	" east	-6	1	6	139.4	7.0	5.3	132.4	95
8	" east	-6	1	6	140.2	7.3	5.5	132.9	96
9	" center	-6	1	6	145.3	7.3	5.3	138.0	99
10	" center	-6	1	6	139.9	7.3	5.5	132.6	95
11	" west	-6	1	6	140.6	6.8	5.1	133.8	96
12	" west	-6	1	6	139.7	6.7	5.0	133.0	96
13	" east	-5	1	6	140.4	8.3	6.3	132.1	95
14	" east	-5	1	6	141.9	8.0	6.0	133.9	96
	"								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0169
Service Date: 10/26/22
Report Date: 10/31/22
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
15	center	-5	1	6	144.4	8.3	6.1	136.1	98
16	" center	-5	1	6	139.9	7.4	5.6	132.5	95
17	" west	-5	1	6	141.8	8.0	6.0	133.8	96
18	" west	-5	1	6	141.2	8.7	6.6	132.5	95
19	" east	-4	1	6	141.0	8.0	6.0	133.0	96
20	" east	-4	1	6	141.2	8.2	6.2	133.0	96
21	" center	-4	1	6	141.1	8.4	6.3	132.7	96
22	" center	-4	1	6	140.4	7.1	5.3	133.3	96
23	" west	-4	1	6	143.0	8.1	6.0	134.9	97
24	" west	-4	1	6	144.2	8.2	6.0	136.0	98

Datum: from FSG
S/N: 71272 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 02/04/2022
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0170
Service Date: 10/27/22
Report Date: 10/28/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0136B	PENNDOT Approved Material Sample #65	ASTM D698	5.8	138.9		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	A6 south, south trench								
1	east	-5	1	6	141.1	7.4	5.5	133.7	96
	A6 south, south trench								
2	west	-5	1	6	140.1	6.8	5.1	133.3	96
	A6 south								
3	east	-4	1	6	140.7	6.7	5.0	134.0	96
	"								
4	center	-4	1	6	142.3	6.4	4.7	135.9	98
	"								
5	center	-4	1	6	142.4	6.8	5.0	135.6	98
	"								
6	west	-4	1	6	141.9	6.9	5.1	135.0	97
	"								
7	west	-4	1	6	142.9	6.9	5.1	136.0	98
	A6 south, west side								
8	east	-5	1	6	141.9	6.1	4.5	135.8	98
	"								
9	center	-5	1	6	141.1	6.6	4.9	134.5	97
	"								
10	center	-5	1	6	142.7	6.8	5.0	135.9	98
	"								
11	center	-5	1	6	141.0	6.8	5.1	134.2	97
	"								
12	west	-5	1	6	142.7	6.8	5.0	135.9	98

Datum: -FSG
S/N: 71272 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 02/04/2022
Comments:

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0170
Service Date: 10/27/22
Report Date: 10/28/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0171
Service Date: 10/28/22
Report Date: 11/03/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0136D	PENNDOT Approved Material Sample #66	ASTM D698	5.3	141.7		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	A6 west side								
1	east	-3	1	6	143.6	7.6	5.6	136.0	96
	"								
2	east	-3	1	6	144.0	7.5	5.5	136.5	96
	"								
3	center	-3	1	6	142.1	6.9	5.1	135.2	95
	"								
4	center	-3	1	6	142.1	7.4	5.5	134.7	95
	"								
5	center	-3	1	6	143.4	7.1	5.2	136.3	96
	A6 west haul road								
6	center	-7	1	6	143.0	6.2	4.5	136.8	97
	"								
7	center	-7	1	6	144.2	7.1	5.2	137.1	97
	"								
8	center	-7	1	6	143.9	6.9	5.0	137.0	97
	"								
9	center	-7	1	6	143.1	6.9	5.1	136.2	96
	"								
10	center	-7	1	6	141.3	6.7	5.0	134.6	95
	CP2								
11	center	-7	1	6	142.9	6.9	5.1	136.0	96
	"								
12	center	-7	1	6	145.0	7.8	5.7	137.2	97
	"								
13	center	-7	1	6	142.6	6.8	5.0	135.8	96
	"								
14	center	-7	1	6	144.1	6.2	4.5	137.9	97
	"								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0171
Service Date: 10/28/22
Report Date: 11/03/22
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
15	center	-7	1	6	145.0	7.0	5.1	138.0	97
	A6 South trench								
16	west	-3	1	6	143.7	7.9	5.8	135.8	96
	"								
17	east	-3	1	6	144.7	7.5	5.5	137.2	97
	"								
18	west	-2	1	6	142.0	7.7	5.7	134.3	95
	"								
19	east	-2	1	6	143.5	7.6	5.6	135.9	96
	A6 south								
20	east	-2	1	6	144.3	7.8	5.7	136.5	96
	"								
21	east	-2	1	6	144.1	7.5	5.5	136.6	96
	"								
22	west	-2	1	6	145.0	7.0	5.1	138.0	97
	"								
23	center	-2	1	6	144.5	7.8	5.7	136.7	96
	"								
24	center	-2	1	6	144.5	6.9	5.0	137.6	97
	A6 west haul road								
25	east	-6	1	6	143.2	7.6	5.6	135.6	96
	"								
26	west	-6	1	6	148.2	8.3	5.9	139.9	99
	"								
27	west	-6	1	6	145.4	6.7	4.8	138.7	98
	"								
28	center	-6	1	6	144.8	6.9	5.0	137.9	97
	"								
29	east	-6	1	6	145.6	7.6	5.5	138.0	97
	CP2								
30	east	-6	1	6	146.5	7.6	5.5	138.9	98
	"								
31	west	-6	1	6	146.1	7.4	5.3	138.7	98
	"								
32	center	-6	1	6	143.7	7.4	5.4	136.3	96

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0171
Service Date: 10/28/22
Report Date: 11/03/22
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	"								
33	east	-6	1	6	145.6	7.6	5.5	138.0	97
	"								
34	center	-6	1	6	145.0	7.3	5.3	137.7	97
	Main FIS								
35	center	-6	1	6	144.9	7.0	5.1	137.9	97
	Main FIS								
36	center	-6	1	6	146.3	7.9	5.7	138.4	98
	A6 west haul road								
37	east	-5	1	6	148.4	7.9	5.6	140.5	99
	"								
38	center	-5	1	6	147.4	8.2	5.9	139.2	98
	"								
39	west	-5	1	6	144.2	8.7	6.4	135.5	96
	"								
40	west	-5	1	6	146.5	7.6	5.5	138.9	98
	"								
41	east	-5	1	6	147.4	7.7	5.5	139.7	99
	CP2								
42	east	-5	1	6	147.2	7.3	5.2	139.9	99
	"								
43	east	-5	1	6	145.2	7.3	5.3	137.9	97
	"								
44	center	-5	1	6	147.4	8.3	6.0	139.1	98
	"								
45	center	-5	1	6	147.8	7.2	5.1	140.6	99
	"								
46	west	-5	1	6	145.3	8.0	5.8	137.3	97
	Main FIS								
47	center	-5	1	6	144.5	7.5	5.5	137.0	97
	Main FIS								
48	center	-5	1	6	143.1	7.1	5.2	136.0	96
	Main FIS								
49	center	-5	1	6	142.3	6.8	5.0	135.5	96

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0171
Service Date: 10/28/22
Report Date: 11/03/22
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Main FIS								
50	center	-5	1	6	142.2	7.4	5.5	134.8	95

Datum:
S/N: 71272 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 02/04/2022
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0172
Service Date: 10/29/22
Report Date: 11/03/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0136F	PENNDOT Approved Material Sample #67	ASTM D698	5.5	140.6		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	Area 3	Lift 1	1	6	143.5	7.6	5.6	135.9	97
2	Area 3	Lift 1	1	6	143.1	6.8	5.0	136.3	97
3	Area 3	Lift 1	1	6	142.2	6.8	5.0	135.4	96
4	Area 3	Lift 1	1	6	143.1	6.0	4.4	137.1	98
5	Area 3	Lift 1	1	6	141.9	6.8	5.0	135.1	96
6	FSI trench	Lift 1	1	6	142.1	6.5	4.8	135.6	96
7	FSI trench	Lift 1	1	6	141.3	7.5	5.6	133.8	95
8	FSI trench	Lift 1	1	6	139.9	6.7	5.0	133.2	95
9	FSI trench	Lift 1	1	6	142.4	7.0	5.2	135.4	96
10	FSI	Lift 1	1	6	145.2	6.9	5.0	138.3	98
11	FSI trench	Lift 1	1	6	140.9	6.8	5.1	134.1	95
12	Area 3	Lift 2	1	6	144.7	6.9	5.0	137.8	98
13	Area 3	Lift 2	1	6	147.3	6.9	4.9	140.4	100
14	Area 3	Lift 2	1	6	143.2	6.3	4.6	136.9	97
15	area 3	Lift 2	1	6	140.2	6.3	4.7	133.9	95
16	Area 3	Lift 2	1	6	143.4	7.0	5.1	136.4	97
17	FSI	Lift 2	1	6	139.9	6.4	4.8	133.5	95
18	FSI trench	Lift 1	1	6	139.3	5.7	4.3	133.6	95
19	FSI trench	Lift 3	1	6	144.1	7.1	5.2	137.0	97
20	FSI trench	Lift 3	1	6	143.8	6.6	4.8	137.2	98
21	Area 3	Lift 3	1	6	142.4	5.9	4.3	136.5	97
22	Area 3	Lift 3	1	6	144.0	6.9	5.0	137.1	98
23	Area 3	Lift 3	1	6	140.1	6.0	4.5	134.1	95
24	Area 3	Lift 3	1	6	141.6	6.5	4.8	135.1	96
25	Area 3	Lift 3	1	6	140.2	6.3	4.7	133.9	95
26	FSI	Lift 3	1	6	145.0	5.7	4.1	139.3	99
27	FSI	Lift 3	1	6	139.1	5.5	4.1	133.6	95
28	FSI trench	Lift 4	1	6	142.2	6.3	4.6	135.9	97
29	FSI trench	Lift 4	1	6	144.6	5.6	4.0	139.0	99
30	Area 3	Lift 4	1	6	141.5	6.9	5.1	134.6	96
31	Area 3	Lift 4	1	6	143.2	6.2	4.5	137.0	97
32	Area 3	Lift 4	1	6	147.2	6.3	4.5	140.9	100
33	Area 3	Lift 4	1	6	143.2	5.8	4.2	137.4	98
34	Area 3	Lift 4	1	6	145.9	5.7	4.1	140.2	100

Datum: Top of existing grade **Std. Cnt. M:** 780 **Std. Cnt. D:** 2640
S/N: 75757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/28/2022
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0172
Service Date: 10/29/22
Report Date: 11/03/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: On-site Representatives of Geosyntec and Recon
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0174
Service Date: 10/30/22
Report Date: 11/03/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0136F	PENNDOT Approved Material Sample #67	ASTM D698	5.5	140.6		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	A6 haul road west								
1	east	-4	1	6	144.3	7.5	5.5	136.8	97
	"								
2	center	-4	1	6	145.5	7.6	5.5	137.9	98
	"								
3	west	-4	1	6	144.5	7.5	5.5	137.0	97
	"								
4	west	-4	1	6	143.2	7.1	5.2	136.1	97
	"								
5	center	-4	1	6	142.8	7.3	5.4	135.5	96
	step down								
6	west	-5	1	6	141.5	7.4	5.5	134.1	95
	"								
7	west	-5	1	6	142.9	6.9	5.1	136.0	97
	"								
8	center	-5	1	6	142.7	7.1	5.2	135.6	96
	"								
9	east	-5	1	6	145.4	7.6	5.5	137.8	98
	"								
10	east	-5	1	6	143.7	7.0	5.1	136.7	97
	A6 west								
11	east	-3	1	6	141.8	6.8	5.0	135.0	96
	"								
12	west	-3	1	6	142.4	7.8	5.8	134.6	96
	"								
13	west	-3	1	6	146.2	7.6	5.5	138.6	99
	"								
14	center	-3	1	6	147.6	8.1	5.8	139.5	99
	"								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0174
Service Date: 10/30/22
Report Date: 11/03/22
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
15	east	-3	1	6	145.0	7.0	5.1	138.0	98
	A6 west, along fence								
16	south	-2	1	6	148.3	7.7	5.5	140.6	100
	"								
17	center	-2	1	6	144.2	7.0	5.1	137.2	98
	"								
18	north	-2	1	6	143.5	6.8	5.0	136.7	97

Datum: FSG
S/N: 71272 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 02/04/2022
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0175
Service Date: 10/31/22
Report Date: 11/03/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0137B	PENNDOT Approved Material sample #68	ASTM D698	6.1	140.1		
2	J5211361.0137J	PENNDOT Approved Material Sample #72	ASTM D698	5.6	140.2		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	A6 west								
1	south end	-2	1	6	144.5	7.5	5.5	137.0	98
	"								
2	north end	-2	1	6	142.7	6.9	5.1	135.8	97
	A6 east								
3	west	-2	2	6	140.8	7.8	5.9	133.0	95
	"								
4	center	-2	2	6	145.1	7.7	5.6	137.4	98
	"								
5	center	-2	2	6	145.2	7.6	5.5	137.6	98
	"								
6	east	-2	2	6	142.4	6.8	5.0	135.6	97
	"								
7	east	-2	2	6	142.2	7.4	5.5	134.8	96

Datum: FSG
S/N: 71272 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 02/04/2022
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0176
Service Date: 11/01/22
Report Date: 01/04/23
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0137L	PENNDOT Approved Material Sample #73	ASTM D698	5.9	139.5		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Upper FIS South								
1	1	1	1	6	139.9	6.5	4.9	133.4	96
	Upper FIS South								
2	2	1	1	6	142.0	7.0	5.2	135.0	97
	Upper FIS South								
3	3	1	1	6	143.0	6.8	5.0	136.2	98
	Upper FIS South								
4	4	1	1	6	140.9	6.8	5.1	134.1	96
	Upper FIS South								
5	5	1	1	6	140.2	6.7	5.0	133.5	96
	Lower FIS Trench								
6	6	1	1	6	139.3	6.5	4.9	132.8	95
	Lower FIS Trench								
7	7	1	1	6	140.3	6.6	4.9	133.7	96
	Lower FIS Trench								
8	8	1	1	6	139.7	6.5	4.9	133.2	95
	Lower FIS Trench								
9	9	1	1	6	140.9	6.8	5.1	134.1	96
	Lower FIS Trench								
10	10	1	1	6	139.5	6.8	5.1	132.7	95
	Lower FIS Trench								
11	11	2	1	6	141.7	7.4	5.5	134.3	96
	Lower FIS Trench								
12	12	2	1	6	143.5	5.3	3.8	138.2	99
	Lower FIS Trench								
13	13	2	1	6	140.5	6.2	4.6	134.3	96
	Lower FIS Trench								
14	14	2	1	6	140.8	7.1	5.3	133.7	96
	Lower FIS Trench								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0176
Service Date: 11/01/22
Report Date: 01/04/23
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
15	15	2	1	6	140.7	7.2	5.4	133.5	96
	Lower FIS Trench								
16	16	3	1	6	139.8	6.4	4.8	133.4	96
	Lower FIS Trench								
17	17	3	1	6	140.3	5.8	4.3	134.5	96
	Lower FIS Trench								
18	18	3	1	6	139.1	6.5	4.9	132.6	95
	Lower FIS Trench								
19	19	3	1	6	141.1	6.7	5.0	134.4	96
	Lower FIS trench								
20	20	3	1	6	142.3	6.9	5.1	135.4	97
	Lower FIS trench								
21	21	4	1	6	139.9	6.0	4.5	133.9	96
	Lower FIS trench								
22	22	4	1	6	140.6	7.1	5.3	133.5	96
	Lower FIS trench								
23	23	4	1	6	139.4	5.4	4.0	134.0	96
	Lower FIS trench								
24	24	4	1	6	144.8	7.0	5.1	137.8	99
	Lower FIS trench								
25	25	4	1	6	144.2	7.1	5.2	137.1	98
	Lower FIS trench								
26	26	5	1	6	138.9	6.4	4.8	132.5	95
	Lower FIS trench								
27	27	5	1	6	139.1	6.1	4.6	133.0	95
	Lower FIS trench								
28	28	5	1	6	141.5	6.2	4.6	135.3	97
	Lower FIS trench								
29	29	5	1	6	142.3	7.2	5.3	135.1	97
	Lower FIS trench								
30	30	5	1	6	139.6	6.9	5.2	132.7	95
	Lower FIS trench								
31	31	6	1	6	141.0	7.9	5.9	133.1	95
	Lower FIS trench								
32	32	6	1	6	142.7	7.7	5.7	135.0	97

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0176
Service Date: 11/01/22
Report Date: 01/04/23
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Lower FIS trench								
33	33	6	1	6	143.7	6.7	4.9	137.0	98
	Lower FIS trench								
34	34	6	1	6	140.2	6.8	5.1	133.4	96
	Lower FIS trench								
35	35	6	1	6	143.2	7.1	5.2	136.1	98
	A6 central hole								
36	36	1	1	6	144.3	7.0	5.1	137.3	98
	A6 central								
37	37	1	1	6	146.7	7.5	5.4	139.2	100
	A6 central								
38	38	1	1	6	145.1	6.4	4.6	138.7	99
	A6 central								
39	39	1	1	6	144.1	7.4	5.4	136.7	98
	A6 central								
40	40	1	1	6	145.3	7.2	5.2	138.1	99
	A6 central								
41	41	1	1	6	143.6	7.1	5.2	136.5	98

Datum:
S/N: **Make:** **Model:** **Last Cal. Date:**
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0178
Service Date: 11/02/22
Report Date: 01/04/23
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0137N	PENNDOT Approved Material Sample #74	ASTM D698	5.8	139.6		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	**A6 Central** 1	1	1	6	143.6	7.2	5.3	136.4	98
2	**A6 Central** 2	1	1	6	144.7	7.4	5.4	137.3	98
3	**A6 Central** 3	1	1	6	141.1	8.0	6.0	133.1	95
4	**A6 Central** 4	1	1	6	143.6	7.5	5.5	136.1	97
5	**A6 Central** 5	1	1	6	144.6	7.4	5.4	137.2	98
6	**A6 Central** 6	2	1	6	145.2	7.4	5.4	137.8	99
7	**A6 Central** 7	2	1	6	141.1	8.4	6.3	132.7	95
8	**A6 Central** 8	2	1	6	143.6	7.4	5.4	136.2	98
9	**A6 Central** 9	2	1	6	150.1	7.7	5.4	142.4	100+
10	**A6 Central** 10	2	1	6	142.1	6.9	5.1	135.2	97
11	**A6 Central** 11	3	1	6	144.8	6.8	4.9	138.0	99
12	**A6 Central** 12	3	1	6	142.9	8.1	6.0	134.8	97
13	**A6 Central** 13	3	1	6	140.7	8.1	6.1	132.6	95
14	**A6 Central** 14	3	1	6	141.3	7.4	5.5	133.9	96

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0178
Service Date: 11/02/22
Report Date: 01/04/23
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
15	15	3	1	6	143.6	7.7	5.7	135.9	97
	A6 Central								
16	16	4	1	6	143.5	7.0	5.1	136.5	98
	A6 Central								
17	17	4	1	6	141.8	7.0	5.2	134.8	97
	A6 Central								
18	18	4	1	6	140.5	6.4	4.8	134.1	96
	A6 Central								
19	19	5	1	6	141.0	6.5	4.8	134.5	96
	A6 Central								
20	20	5	1	6	140.5	6.8	5.1	133.7	96
	A6 Central								
21	21	5	1	6	141.0	6.2	4.6	134.8	97
	A6 Central								
22	22	6	1	6	137.5	4.9	3.7	132.6	95
	A6 Central								
23	23	6	1	6	139.0	6.1	4.6	132.9	95
	A6 Central								
24	24	6	1	6	140.2	6.7	5.0	133.5	96
	A6 Central								
25	25	6	1	6	139.9	7.0	5.3	132.9	95
	A6 Central								
26	26	6	1	6	140.7	7.2	5.4	133.5	96

Datum:
S/N: **Make:** **Model:** **Last Cal. Date:**
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0178
Service Date: 11/02/22
Report Date: 01/04/23
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0179
Service Date: 11/03/22
Report Date: 01/04/23
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0137N	PENNDOT Approved Material Sample #74	ASTM D698	5.8	139.6		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	**gas line east** 1	1	1	6	139.5	6.8	5.1	132.7	95
2	**gas line east** 2	1	1	6	140.0	6.9	5.2	133.1	95
3	**gas line east** 3	1	1	6	140.8	6.3	4.7	134.5	96
4	**gas line east** 4	2	1	6	139.6	6.8	5.1	132.8	95
5	**gas line east** 5	2	1	6	143.7	8.3	6.1	135.4	97
6	**gas line east** 6	2	1	6	142.2	7.4	5.5	134.8	97
7	**gas line east** 7	2	1	6	145.4	7.2	5.2	138.2	99
8	**gas line east** 8	2	1	6	144.6	7.9	5.8	136.7	98
9	**gas line east** 9	3	1	6	141.5	7.0	5.2	134.5	96
10	**gas line east** 10	3	1	6	141.0	7.2	5.4	133.8	96
11	**gas line east** 11	3	1	6	140.2	6.7	5.0	133.5	96

Datum:
S/N: **Make:** **Model:** **Last Cal. Date:**
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0179
Service Date: 11/03/22
Report Date: 01/04/23
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0180
Service Date: 11/07/22
Report Date: 11/10/22
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0138B	PENNDOT Approved Material Sample #76	ASTM D698	6.3	139.1		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	sewer								
1	center	fsg	1	6	139.5	7.4	5.6	132.1	95
	NAF south								
2	east	"	1	6	138.7	6.9	5.2	131.8	95
	"								
3	east	"	1	6	143.6	8.9	6.6	134.7	97
	"								
4	center	"	1	6	141.1	9.0	6.8	132.1	95
	"								
5	west	"	1	6	143.4	10.5	7.9	132.9	96
	"								
6	west	"	1	6	139.2	7.8	5.9	131.4	94
	area 6 south								
7	west	"	1	6	150.0	8.6	6.1	141.4	100+
	"								
8	west	"	1	6	144.2	7.6	5.6	136.6	98
	"								
9	center	"	1	6	141.9	8.0	6.0	133.9	96
	"								
10	east	"	1	6	141.2	8.1	6.1	133.1	96
	"								
11	east	"	1	6	141.0	8.0	6.0	133.0	96

Datum: final sub grade
S/N: 71272 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 02/04/2022
Comments:

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0180
Service Date: 11/07/22
Report Date: 11/10/22
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0182
Service Date: 11/16/22
Report Date: 01/04/23
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0137L	PENNDOT Approved Material Sample #73	ASTM D698	5.9	139.5		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Behind shed								
1	1	1	1	6	143.8	10.4	7.8	133.4	96
	Behind shed								
2	2	1	1	6	144.6	10.8	8.1	133.8	96
	Behind shed								
3	3	1	1	6	144.7	10.6	7.9	134.1	96
	Behind shed								
4	4	1	1	6	143.3	10.4	7.8	132.9	95
	Behind shed								
5	5	1	1	6	144.9	10.4	7.7	134.5	96

Datum:
S/N: **Make:** **Model:** **Last Cal. Date:**
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0185
Service Date: 12/28/22
Report Date: 12/30/22
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0137P	PENNDOT Approved Material Sample #75	ASTM D698	5.8	140.2		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	A6 North haul road								
1	north	-2.5'	1	6	146.9	9.9	7.2	137.0	98
	"								
2	north	-2.5'	1	6	145.1	10.1	7.5	135.0	96
	"								
3	center	-2.5'	1	6	146.1	9.3	6.8	136.8	98
	"								
4	south	-2.5'	1	6	145.5	10.8	8.0	134.7	96
	"								
5	south	-2.5'	1	6	141.7	9.1	6.9	132.6	95

Datum: provided by Recon
S/N: 70112 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 03/26/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0186
Service Date: 12/29/22
Report Date: 01/04/23
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0137P	PENNDOT Approved Material Sample #75	ASTM D698	5.8	140.2		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	A6 N-B21 3 SD @-3'								
1	1	1	1	6	147.3	7.5	5.4	139.8	100
	A6 N-B21 3 SD @-3'								
2	2	1	1	6	146.4	8.5	6.2	137.9	98
	A6 N-B21 3 SD @-3'								
3	3	1	1	6	142.4	8.1	6.0	134.3	96
	A6 N-B21 3 SD @-2'								
4	4	2	1	6	144.2	7.8	5.7	136.4	97
	A6 N-B21 3 SD @-2'								
5	5	2	1	6	149.8	8.2	5.8	141.6	100+
	A6 N-B21 3 SD @-2'								
6	6	2	1	6	152.6	9.0	6.3	143.6	100+
	North A6								
7	7	1	1	6	150.3	9.6	6.8	140.7	100
	North A6								
8	8	1	1	6	147.2	8.6	6.2	138.6	99
	North A6								
9	9	1	1	6	149.0	8.7	6.2	140.3	100
	North A6								
10	10	1	1	6	151.9	8.9	6.2	143.0	100+
	North A6								
11	11	1	1	6	148.6	8.5	6.1	140.1	100
	North A6								
12	12	1	1	6	150.2	10.1	7.2	140.1	100

Datum:
S/N: **Make:** **Model:** **Last Cal. Date:**
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0186
Service Date: 12/29/22
Report Date: 01/04/23
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0187
Service Date: 12/30/22
Report Date: 01/03/23
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0138B	PENNDOT Approved Material Sample #76	ASTM D698	6.3	139.1		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	A6N, Northern								
1	N	-1	1	6	143.5	8.4	6.2	135.1	97
	"								
2	N	-1	1	6	142.5	7.9	5.9	134.6	97
	"								
3	Center	-1	1	6	139.9	7.5	5.7	132.4	95
	"								
4	S	-1	1	6	145.2	9.6	7.1	135.6	97
	"								
5	S	-1	1	6	139.9	7.4	5.6	132.5	95

Datum: provided by Recon
S/N: 70112 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 03/26/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0188
Service Date: 12/31/22
Report Date: 01/05/23
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0138D	PENNDOT Approved Material Sample #77	ASTM D698	5.8	140.4		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	A6N Dugout	Lift 1	1	6	146.0	10.1	7.4	135.9	97
2	A6N Dugout	Lift 1	1	6	142.5	6.8	5.0	135.7	97
3	A6N Dugout	Lift 1	1	6	143.6	9.5	7.1	134.1	96
4	A6N southern portion	Lift 1	1	6	149.2	10.3	7.4	138.9	99
5	A6N southern portion	Lift 1	1	6	143.1	9.4	7.0	133.7	95
6	A6N southern portion	Lift 1	1	6	144.0	10.4	7.8	133.6	95
7	A6N southern portion	Lift 1	1	6	143.2	8.6	6.4	134.6	96
8	A6N southern portion	Lift 1	1	6	141.9	8.5	6.4	133.4	95
9	A6N Dugout	Lift 2	1	6	140.3	6.9	5.2	133.4	95
10	A6N Dugout	Lift 2	1	6	140.7	7.0	5.2	133.7	95
11	A6N Dugout	Lift 2	1	6	141.7	7.6	5.7	134.1	96
12	A6N Dugout	Lift 3	1	6	142.7	6.9	5.1	135.8	97
13	A6N Dugout	Lift 3	1	6	140.9	6.3	4.7	134.6	96
14	A6N Dugout	Lift 3	1	6	147.8	6.6	4.7	141.2	100+
15	A6N Dugout	Lift 4	1	6	148.7	6.4	4.5	142.3	100+
16	A6N Dugout	Lift 4	1	6	141.2	6.5	4.8	134.7	96
17	A6N Dugout	Lift 4	1	6	149.9	7.4	5.2	142.5	100+
18	A6N Dugout	Lift 4	1	6	140.8	5.5	4.1	135.3	96
19	A6N Dugout	Lift 4	1	6	147.1	6.7	4.8	140.4	100
20	A6N central	Lift 5	1	6	144.7	7.2	5.2	137.5	98
21	A6N central	Lift 5	1	6	151.0	7.5	5.2	143.5	100+
22	A6N southern portion	Lift 5	1	6	144.8	7.9	5.8	136.9	98
23	A6N southern portion	Lift 5	1	6	144.2	7.0	5.1	137.2	98
24	A6N central	Lift 5	1	6	147.8	7.6	5.4	140.2	100

Datum: Top of existing grade **Std. Cnt. M:** 670 **Std. Cnt. D:** 2650
S/N: 74112 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/26/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0188
Service Date: 12/31/22
Report Date: 01/05/23
Task:

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

Client

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

Project

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

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: Miranda with Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0190
Service Date: 01/04/23
Report Date: 01/04/23
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0138F	PENNDOT Approved Material Sample #78	ASTM D698	6.1	140.8		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	A6 North, west side								
1	south	-0.5'	1	6	142.9	8.2	6.1	134.7	96
	"								
2	south	-0.5'	1	6	143.0	8.7	6.5	134.3	95
	"								
3	center	-0.5'	1	6	145.3	9.8	7.2	135.5	96
	"								
4	north	-0.5'	1	6	144.5	9.2	6.8	135.3	96
	"								
5	north	-0.5'	1	6	148.3	9.4	6.8	138.9	99

Datum: provided by Geosyntec, final lift before road
S/N: 70112 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 03/26/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0191
Service Date: 01/05/23
Report Date: 01/13/23
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0138F	PENNDOT Approved Material Sample #78	ASTM D698	6.1	140.8		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	-.5 ft								
1	A6N southern portion	Lift 1	1	6	142.0	7.0	5.2	135.0	96
	-.5ft								
2	A6N southern portion	Lift 1	1	6	140.4	7.2	5.4	133.2	95
	-.5ft								
3	A6N southern portion	Lift 1	1	6	142.3	8.4	6.3	133.9	95
	-.5ft								
4	A6N southern portion	Lift 1	1	6	147.5	10.2	7.4	137.3	98
	-.5ft								
5	A6N southern portion	Lift 1	1	6	140.1	6.7	5.0	133.4	95
6	A6N southern portion	Lift 2	1	6	146.6	8.4	6.1	138.2	98
7	A6N southern portion	Lift 2	1	6	144.4	7.5	5.5	136.9	97
8	A6N southern portion	Lift 2	1	6	143.3	8.1	6.0	135.2	96
9	A6N southern portion	Lift 2	1	6	150.7	10.1	7.2	140.6	100
10	A6N southern portion	Lift 2	1	6	143.6	7.2	5.3	136.4	97

Datum: Top of existing grade **Std. Cnt. M:** 604 **Std. Cnt. D:** 2410
S/N: 74112 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/26/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: Onsite Representatives of Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0192
Service Date: 01/06/23
Report Date: 01/16/23
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0138F	PENNDOT Approved Material Sample #78	ASTM D698	6.1	140.8		Min 95
2	J5211361.0138H	PENNDOT Approved Material Sample #79	ASTM D698	5.7	141.2		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
1	A6N concrete pillar excavation	Lift 1	1	6	145.9	7.7	5.6	138.2	98
2	A6N concrete pillar excavation	Lift 1	1	6	145.6	8.5	6.2	137.1	97
3	A6N concrete pillar excavation	Lift 1	1	6	145.5	8.4	6.1	137.1	97
4	A6N concrete pillar excavation	Lift 1	1	6	142.8	7.6	5.6	135.2	96
5	A6N concrete pillar excavation	Lift 1	1	6	141.5	7.4	5.5	134.1	95
6	A6N concrete pillar excavation	Lift 1	1	6	147.8	8.5	6.1	139.3	99
7	A6N concrete pillar excavation	Lift 1	1	6	147.2	7.8	5.6	139.4	99
8	A6N concrete pillar excavation	Lift 1	1	6	147.9	9.5	6.9	138.4	98
9	A6N concrete pillar excavation	Lift 1	1	6	143.6	8.3	6.1	135.3	96
10	A6N concrete pillar excavation	Lift 1	2	6	143.6	8.3	6.1	135.3	96
11	A6N concrete pillar excavation	Lift 1	2	6	147.0	9.1	6.6	137.9	98
12	A6N concrete pillar excavation	Lift 1	2	6	142.3	8.2	6.1	134.1	95
13	A6N concrete pillar excavation	Lift 1	2	6	146.2	7.8	5.6	138.4	98
14	A6N concrete pillar excavation	Lift 1	2	6	147.7	9.3	6.7	138.4	98
15	A6N concrete pillar excavation	Lift 1	2	6	143.8	6.6	4.8	137.2	97
16	A6N concrete pillar excavation	Lift 2	2	6	141.9	7.4	5.5	134.5	95
17	A6N concrete pillar excavation	Lift 2	2	6	144.9	8.2	6.0	136.7	97
18	A6N concrete pillar excavation	Lift 2	2	6	146.5	8.2	5.9	138.3	98
19	A6N concrete pillar excavation	Lift 2	2	6	146.9	9.4	6.8	137.5	97
20	A6N concrete pillar excavation	Lift 2	2	6	144.6	9.3	6.9	135.3	96

Datum: Top of existing grade **Std. Cnt. M:** 670 **Std. Cnt. D:** 2481
S/N: 74112 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/26/2021
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Pete Valenti
Reported To: Onsite Representatives of Geosyntec
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0193
Service Date: 01/07/23
Report Date: 01/30/23
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0137P	PENNDOT Approved Material Sample #75	ASTM D698	5.8	140.2		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	A6 vault hole								
1	1	1	1	6	143.3	8.0	5.9	135.3	97
	A6 vault hole								
2	2	1	1	6	149.1	8.3	5.9	140.8	100
	A6 vault hole								
3	3	1	1	6	151.3	9.0	6.3	142.3	100+
	A6 vault hole								
4	4	1	1	6	151.3	8.6	6.0	142.7	100+
	A6 vault hole								
5	5	1	1	6	146.1	7.4	5.3	138.7	99
	A6 vault hole								
6	6	2	1	6	145.2	7.3	5.3	137.9	98
	A6 vault hole								
7	7	2	1	6	144.6	8.1	5.9	136.5	97
	A6 vault hole								
8	8	2	1	6	147.3	7.7	5.5	139.6	100
	A6 vault hole								
9	9	2	1	6	149.4	7.5	5.3	141.9	100+
	A6 vault hole								
10	10	2	1	6	149.5	8.1	5.7	141.4	100+
	A6 vault hole								
11	11	3	1	6	145.3	7.6	5.5	137.7	98
	A6 vault hole								
12	12	3	1	6	143.8	6.6	4.8	137.2	98
	A6 vault hole								
13	13	3	1	6	151.7	7.8	5.4	143.9	100+
	A6 vault hole								
14	14	3	1	6	144.7	7.4	5.4	137.3	98
	A6 vault hole								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0193
Service Date: 01/07/23
Report Date: 01/30/23
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
15	15	3	1	6	147.7	8.0	5.7	139.7	100
	A6 vault hole								
16	16	4	1	6	142.5	8.3	6.2	134.2	96
	A6 vault hole								
17	17	4	1	6	146.7	8.4	6.1	138.3	99
	A6 vault hole								
18	18	4	1	6	149.5	7.8	5.5	141.7	100+
	A6 vault hole								
19	19	4	1	6	152.1	9.3	6.5	142.8	100+
	A6 vault hole								
20	20	4	1	6	143.6	6.8	5.0	136.8	98
	A6 vault hole								
21	21	5	1	6	149.7	8.1	5.7	141.6	100+
	A6 vault hole								
22	22	5	1	6	151.9	8.1	5.6	143.8	100+
	A6 vault hole								
23	23	5	1	6	151.3	8.0	5.6	143.3	100+
	A6 vault hole								
24	24	5	1	6	151.7	8.6	6.0	143.1	100+
	A6 vault hole								
25	25	5	1	6	146.2	7.9	5.7	138.3	99
	A6 vault hole								
26	26	6	1	6	148.2	9.0	6.5	139.2	99
	A6 vault hole								
27	27	6	1	6	145.7	8.5	6.2	137.2	98
	A6 vault hole								
28	28	6	1	6	142.5	7.0	5.2	135.5	97
	A6 vault hole								
29	29	6	1	6	141.1	7.0	5.2	134.1	96
	A6 vault hole								
30	30	6	1	6	147.9	8.1	5.8	139.8	100
	A6 vault hole								
31	31	7	1	6	148.2	7.2	5.1	141.0	100+
	A6 vault hole								
32	32	7	1	6	143.9	7.5	5.5	136.4	97

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0193
Service Date: 01/07/23
Report Date: 01/30/23
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	A6 vault hole								
33	33	7	1	6	141.8	7.4	5.5	134.4	96
	A6 vault hole								
34	34	7	1	6	142.2	6.4	4.7	135.8	97
	A6 vault hole								
35	35	7	1	6	141.2	7.1	5.3	134.1	96

Datum:
S/N: **Make:** **Model:** **Last Cal. Date:**
Comments: **Test and/or retest results on this report meet project requirements as noted above.**

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: Rob Castronovo
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0195
Service Date: 01/16/23
Report Date: 01/17/23
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0138J	PENNDOT Approved Material Sample #80	ASTM D698	5.6	140.3		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	N Maint Shed								
1	west	-2.5	1	6	145.7	7.9	5.7	137.8	98
	"								
2	west	-2.5	1	6	142.0	8.2	6.1	133.8	95
	"								
3	center	-2.5	1	6	141.0	8.0	6.0	133.0	95
	"								
4	center	-2.5	1	6	146.2	8.4	6.1	137.8	98
	"								
5	east	-2.5	1	6	147.6	9.9	7.2	137.7	98
	"								
6	west	-2	1	6	142.1	8.2	6.1	133.9	95
	"								
7	west	-2	1	6	146.1	9.4	6.9	136.7	97
	"								
8	center	-2	1	6	140.9	7.7	5.8	133.2	95
	"								
9	east	-2	1	6	141.1	7.7	5.8	133.4	95
	"								
10	east	-2	1	6	142.6	7.8	5.8	134.8	96
	"								
11	west	-1	1	6	142.3	8.1	6.0	134.2	96
	"								
12	west	-1	1	6	147.5	8.7	6.3	138.8	99
	"								
13	center	-1	1	6	141.9	7.4	5.5	134.5	96
	"								
14	east	-1	1	6	141.5	8.5	6.4	133.0	95
	"								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0195
Service Date: 01/16/23
Report Date: 01/17/23
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
15	east	-1	1	6	142.3	8.1	6.0	134.2	96

Datum: provided
S/N: 70112 **Make:** Troxler **Model:** 3430 **Last Cal. Date:** 03/26/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0197
Service Date: 02/08/23
Report Date: 02/14/23
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0138L	PENNDOT Approved Material Sample #81	ASTM D698	5.9	140.1		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 6								
1	north	-9'	1	6	146.4	12.6	9.4	133.8	96
2	north	"	1	6	145.4	13.1	9.9	132.3	94
3	center	"	1	6	155.6	11.4	7.9	144.2	100+
4	south	"	1	6	144.5	11.6	8.7	132.9	95
5	south	"	1	6	144.6	10.3	7.7	134.3	96
	Area 6								
6	north	-8	1	6	147.5	12.7	9.4	134.8	96
7	north	"	1	6	151.0	12.3	8.9	138.7	99
8	center	"	1	6	151.3	13.0	9.4	138.3	99
9	south	"	1	6	146.3	10.8	8.0	135.5	97
10	south	"	1	6	145.3	11.9	8.9	133.4	95
	Area 6								
11	south	-3'	1	6	149.6	13.7	10.1	135.9	97
12	south	"	1	6	149.5	12.6	9.2	136.9	98
13	center	"	1	6	148.9	10.3	7.4	138.6	99
14	north	"	1	6	151.0	10.0	7.1	141.0	100+

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0197
Service Date: 02/08/23
Report Date: 02/14/23
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
15	north	"	1	6	147.0	8.1	5.8	138.9	99
	Area 6								
16	north	-7'	1	6	146.4	9.3	6.8	137.1	98
	"								
17	north	"	1	6	146.4	9.3	6.8	137.1	98
	"								
18	center	"	1	6	144.8	10.5	7.8	134.3	96
	"								
19	south	"	1	6	146.7	10.4	7.6	136.3	97
	"								
20	south	"	1	6	146.1	10.6	7.8	135.5	97
	Trench Area 6								
21	west	-5'	1	6	141.1	8.1	6.1	133.0	95
	"								
22	center	"	1	6	140.1	7.6	5.7	132.5	95
	"								
23	south	"	1	6	141.1	8.5	6.4	132.6	95
	"								
24	south	"	1	6	142.1	8.2	6.1	133.9	96
	"								
25	south	"	1	6	142.4	8.6	6.4	133.8	96
	Maintenance Bldg.								
26	center	FSG	1	6	144.9	10.9	8.1	134.0	96
	"								
27	center	"	1	6	146.9	11.4	8.4	135.5	97
	"								
28	west	"	1	6	146.8	10.9	8.0	135.9	97
	"								
29	south	"	1	6	143.4	10.5	7.9	132.9	95
	"								
30	north	"	1	6	143.7	10.4	7.8	133.3	95
	Area 6								
31	north	-7'	1	6	143.2	9.2	6.9	134.0	96
	"								
32	north	"	1	6	143.5	9.0	6.7	134.5	96

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0197
Service Date: 02/08/23
Report Date: 02/14/23
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	"								
33	center	"	1	6	145.2	9.4	6.9	135.8	97
	"								
34	south	"	1	6	146.3	9.3	6.8	137.0	98
	"								
35	south	"	1	6	148.5	9.5	6.8	139.0	99
	Trench								
36	east	-4'	1	6	143.9	9.5	7.1	134.4	96
	"								
37	east	"	1	6	146.2	9.7	7.1	136.5	97
	"								
38	center	"	1	6	146.6	10.1	7.4	136.5	97
	"								
39	west	"	1	6	144.9	9.7	7.2	135.2	97
	"								
40	west	"	1	6	145.0	9.9	7.3	135.1	96
	Area 6								
41	south	-5'	1	6	146.4	8.9	6.5	137.5	98
	"								
42	south	"	1	6	147.8	9.3	6.7	138.5	99
	"								
43	center	"	1	6	141.8	9.4	7.1	132.4	95
	"								
44	north	"	1	6	142.9	10.0	7.5	132.9	95
	"								
45	center	"	1	6	141.6	8.8	6.6	132.8	95
	Area 6								
46	north	-6'	1	6	141.5	8.8	6.6	132.7	95
47	north	"	1	6	147.2	9.0	6.5	138.2	99
48	center	"	1	6	144.5	10.3	7.7	134.2	96
49	south	"	1	6	145.8	8.9	6.5	136.9	98
50	south	"	1	6	142.8	9.3	7.0	133.5	95
	Area 6								
51	north	-5'	1	6	144.1	8.5	6.3	135.6	97
	"								

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FIELD DENSITY TEST REPORT

Report Number: J5211361.0197
Service Date: 02/08/23
Report Date: 02/14/23
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
52	north	"	1	6	142.4	8.1	6.0	134.3	96
	"								
53	center	"	1	6	145.4	8.7	6.4	136.7	98
	"								
54	south	"	1	6	141.8	8.9	6.7	132.9	95
	"								
55	south	"	1	6	145.3	9.6	7.1	135.7	97
	Area 6								
56	east	-3'	1	6	145.0	9.1	6.7	135.9	97
	"								
57	west	"	1	6	149.2	10.3	7.4	138.9	99
	"								
58	south	"	1	6	145.3	9.6	7.1	135.7	97
	"								
59	north	"	1	6	143.9	9.4	7.0	134.5	96
	"								
60	north	"	1	6	144.9	9.5	7.0	135.4	97
	Area 6								
61	north	-4'	1	6	142.4	8.9	6.7	133.5	95
62	north	"	1	6	143.2	8.7	6.5	134.5	96
63	central	"	1	6	144.8	9.5	7.0	135.3	97
64	south	"	1	6	143.8	9.5	7.1	134.3	96
65	south	"	1	6	143.4	9.4	7.0	134.0	96

Datum: provided by Geosyntec
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments:
Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0199
Service Date: 02/10/23
Report Date: 02/14/23
Task:

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

Client

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

Project

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

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0138N	PENNDOT Approved Material Sample #82	ASTM D698	6.0	139.7		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 6								
1	north	-3'	1	6	153.0	13.5	9.7	139.5	100
	"								
2	north	"	1	6	144.4	10.8	8.1	133.6	96
	"								
3	center	"	1	6	152.4	13.0	9.3	139.4	100
	"								
4	south	"	1	6	148.0	11.7	8.6	136.3	98
	"								
5	south	"	1	6	147.8	10.2	7.4	137.6	98

Datum: provided by Geosyntec
S/N: 71271 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 03/24/2022
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0201
Service Date: 02/14/23
Report Date: 02/15/23
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0138O	PENNDOT Approved Material Sample #83	ASTM D698	6.8	139.3		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	Area 6 O'Gorman								
1	south	-4	1	6	139.3	7.5	5.7	131.8	95
	"								
2	center	-4	1	6	141.3	7.2	5.4	134.1	96
	"								
3	center	-4	1	6	142.5	7.9	5.9	134.6	97
	"								
4	center	-4	1	6	140.7	8.5	6.4	132.2	95
	"								
5	north	-4	1	6	142.8	8.3	6.2	134.5	97
	"								
6	excavation	-10	1	6	138.1	6.1	4.6	132.0	95
	"								
7	excavation	-10	1	6	140.5	8.0	6.0	132.5	95
	"								
8	excavation	-10	1	6	140.6	8.0	6.0	132.6	95
	"								
9	excavation	-9	1	6	140.8	7.8	5.9	133.0	95
	"								
10	excavation	-9	1	6	140.6	8.0	6.0	132.6	95
	"								
11	excavation	-9	1	6	145.3	8.7	6.4	136.6	98
	"								
12	excavation	-8	1	6	146.3	9.1	6.6	137.2	98
	"								
13	excavation	-8	1	6	145.2	8.0	5.8	137.2	98
	"								
14	excacation	-8	1	6	139.5	7.0	5.3	132.5	95
	"								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0201
Service Date: 02/14/23
Report Date: 02/15/23
Task:

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
15	excavation	-7	1	6	143.5	7.5	5.5	136.0	98
16	" excavation	-7	1	6	143.3	6.8	5.0	136.5	98
17	" excavation	-7	1	6	143.7	8.0	5.9	135.7	97
18	" excavation	-6	1	6	145.1	9.0	6.6	136.1	98
19	" excavation	-6	1	6	139.8	7.8	5.9	132.0	95
20	" excavation	-6	1	6	142.5	7.0	5.2	135.5	97
21	" excavation	-5	1	6	142.2	8.2	6.1	134.0	96
22	" excavation	-5	1	6	140.2	7.3	5.5	132.9	95
23	" excavation	-5	1	6	141.6	7.4	5.5	134.2	96
24	" excavation	-4	1	6	140.9	6.8	5.1	134.1	96
25	" excavation	-4	1	6	138.5	6.8	5.2	131.7	95
26	" excavation	-4	1	6	142.0	7.8	5.8	134.2	96
27	" excavation	-3	1	6	145.3	7.6	5.5	137.7	99
28	" excavation	-3	1	6	140.0	7.7	5.8	132.3	95
29	" excavation	-3	1	6	141.3	7.5	5.6	133.8	96
30	" excavation	-2	1	6	139.3	7.1	5.4	132.2	95
31	" excavation	-2	1	6	138.2	5.7	4.3	132.5	95
32	" excavation	-2	1	6	139.5	6.6	5.0	132.9	95

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0201
Service Date: 02/14/23
Report Date: 02/15/23
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	"								
33	excavation	-2	1	6	141.3	6.6	4.9	134.7	97
	"								
34	excavation	-2	1	6	138.4	6.6	5.0	131.8	95
	"								
35	south	-2	1	6	143.7	7.5	5.5	136.2	98
	"								
36	south	-2	1	6	140.5	7.3	5.5	133.2	96
	"								
37	center	-2	1	6	138.3	6.3	4.8	132.0	95
	"								
38	north	-2	1	6	142.5	8.1	6.0	134.4	96
	"								
39	east	-2	1	6	140.3	7.9	6.0	132.4	95

Datum:
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor: Recon
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0202
Service Date: 02/15/23
Report Date: 02/17/23
Task:

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

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data: Opt. Water Content (%)	Lab Test Data: Max. Lab Density (pcf)	Project Requirements: Water Content (%)	Project Requirements: Compaction (%)
1	J5211361.0138T	PENNDOT Approved Material Sample #85	ASTM D698	7.4	138.3		

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
	FIS trench								
1	north	-6	1	6	138.6	6.6	5.0	132.0	95
	"								
2	center	-6	1	6	138.1	6.8	5.2	131.3	95
	"								
3	south	-6	1	6	141.4	6.5	4.8	134.9	98
	"								
4	north	-6	1	6	138.9	7.5	5.7	131.4	95
	"								
5	center	-6	1	6	138.3	7.3	5.6	131.0	95
	"								
6	south	-6	1	6	145.7	8.6	6.3	137.1	99
	"								
7	north	-6	1	6	145.0	7.7	5.6	137.3	99
	"								
8	center	-6	1	6	139.3	8.3	6.3	131.0	95
	"								
9	south	-6	1	6	141.9	8.4	6.3	133.5	97
	"								
10	north	-6	1	6	144.3	6.7	4.9	137.6	99
	"								
11	center	-6	1	6	141.4	6.5	4.8	134.9	98
	"								
12	south	-6	1	6	141.6	8.0	6.0	133.6	97
	North lightpole								
13	center	-2.5	1	6	136.8	5.6	4.3	131.2	95
	"								
14	center	-2.5	1	6	140.3	6.7	5.0	133.6	97
	"								

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.

FIELD DENSITY TEST REPORT

Report Number: J5211361.0202
Service Date: 02/15/23
Report Date: 02/17/23
Task:

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

Client

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

Project

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

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
15	center	-2.5	1	6	141.6	7.6	5.7	134.0	97

Datum: provided by Recon
S/N: 71757 **Make:** Troxler **Model:** 3430P **Last Cal. Date:** 04/20/2021
Comments:

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.
Terracon Rep.: William Jablonski
Reported To:
Contractor:
Report Distribution:
See attached distribution list.

Reviewed By: Evan Pikuet
Assistant Project Manager

Test Methods: ASTM D6938

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.

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 19 day 03 month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Hawbaker Quarry

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 2 to + 4 of OPT.

NUCLEAR GAUGE TYPE: GAUGE SERIAL NO.: CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	DRY UNIT WT (pcf)	WET UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Area 1 North	6 / -9	Proctor 88	6.3	139.2	6.8	136.9	146.2	98.3	X				
2	Area 1 North	6 / -9	Proctor 88	6.3	139.2	6.7	135.3	144.4	97.2	X				
3	Area 1 North	6 / -9	Proctor 88	6.3	139.2	7.4	134.3	144.2	96.5	X				
4	Area 1 North	6 / -9	Proctor 88	6.3	139.2	6.7	133.4	142.3	95.8	X				
5	Area 1 North	6 / -9	Proctor 88	6.3	139.2	6.1	137.7	146.1	98.9	X				
6	Area 1 North	6 / -8	Proctor 88	6.3	139.2	6.8	136.7	146.0	98.2	X				
7	Area 1 North	6 / -8	Proctor 88	6.3	139.2	7.2	132.2	141.7	95.0	X				
8	Area 1 North	6 / -8	Proctor 88	6.3	139.2	6.4	132.2	140.7	95.0	X				
9	Area 1 North	6 / -8	Proctor 88	6.3	139.2	7.2	135.6	145.4	97.4	X				
10	Area 1 North	6 / -8	Proctor 88	6.3	139.2	6.7	133.7	142.7	96.0	X				
11	Area 1 North	6 / -7	Proctor 88	6.3	139.2	6.6	137.7	146.8	98.9	X				
12	Area 1 North	6 / -7	Proctor 88	6.3	139.2	6.2	132.2	140.4	95.0	X				
13	Area 1 North	6 / -7	Proctor 88	6.3	139.2	6.4	136.6	145.3	98.1	X				
14	Area 1 North	6 / -7	Proctor 88	6.3	139.2	6	137	145.2	98.4	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 19 day 03 month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Hawbaker Quarry

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 2 to + 4 of OPT.

NUCLEAR GAUGE TYPE: GAUGE SERIAL NO.: CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
15	Area 1 North	6 / -7	Proctor 88	6.3	139.2	6.3	134.8	143.3	96.8	X				
16	Area 1 North	6 / -6	Proctor 88	6.3	139.2	5.7	134	141.6	96.3	X				
17	Area 1 North	6 / -6	Proctor 88	6.3	139.2	6	132.2	140.1	95.0	X				
18	Area 1 North	6 / -6	Proctor 88	6.3	139.2	6.2	139.9	148.6	100.5	X				
19	Area 1 North	6 / -6	Proctor 88	6.3	139.2	6.6	138.5	147.6	99.5	X				
20	Area 1 North	6 / -6	Proctor 88	6.3	139.2	6.3	132.4	140.7	95.1	X				
21	Area 1 North	6 / -5	Proctor 88	6.3	139.2	6.7	136.1	145.2	97.8	X				
22	Area 1 North	6 / -5	Proctor 88	6.3	139.2	6.6	135.5	144.4	97.3	X				
23	Area 1 North	6 / -5	Proctor 88	6.3	139.2	6	135	143.1	97.0	X				
24	Area 1 North	6 / -5	Proctor 88	6.3	139.2	7	135.7	145.2	97.5	X				
25	Area 1 North	6 / -5	Proctor 88	6.3	139.2	5.5	133.8	141.2	96.1	X				
26	Area 1 North	6 / -4	Proctor 88	6.3	139.2	6.3	132.7	141.1	95.3	X				
27	Area 1 North	6 / -4	Proctor 88	6.3	139.2	6.6	133.7	142.5	96.0	X				
28	Area 1 North	6 / -4	Proctor 88	6.3	139.2	6.4	135.8	144.5	97.6	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 19 day 03 month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Hawbaker Quarry

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 2 to + 4 of OPT.

NUCLEAR GAUGE TYPE: GAUGE SERIAL NO.: CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
29	Area 1 North	6 / -4	Proctor 88	6.3	139.2	6.4	136.5	145.2	98.1	X				
30	Area 1 North	6 / -4	Proctor 88	6.3	139.2	6	132.2	140.1	95.0	X				
31	Area 1 North	6 / -3	Proctor 88	6.3	139.2	6.3	133.4	141.8	95.8	X				
32	Area 1 North	6 / -3	Proctor 88	6.3	139.2	6.2	136.9	145.4	98.3	X				
33	Area 1 North	6 / -3	Proctor 88	6.3	139.2	6.4	135.5	144.2	97.3	X				
34	Area 1 North	6 / -3	Proctor 88	6.3	139.2	6.7	137.3	146.5	98.6	X				
35	Area 1 North	6 / -3	Proctor 88	6.3	139.2	6.6	136.2	145.2	97.8	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 20 day 03 month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Hawbaker Quarry

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 2 to + 4 of OPT.

NUCLEAR GAUGE TYPE: GAUGE SERIAL NO.: CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	DRY UNIT WT (pcf)	WET UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Area 1 North	6 / -2	Proctor 88	6.3	139.2	5.8	133.4	141.1	95.8	X				
2	Area 1 North	6 / -2	Proctor 88	6.3	139.2	6	134.6	142.7	96.7	X				
3	Area 1 North	6 / -2	Proctor 88	6.3	139.2	6	132.5	140.5	95.2	X				
4	Area 1 North	6 / -2	Proctor 88	6.3	139.2	6.6	133	141.8	95.5	X				
5	Area 1 North	6 / -2	Proctor 88	6.3	139.2	6.5	132.2	140.8	95.0	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 21 day 03 month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Hawbaker Quarry

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 2 to + 4 of OPT.

NUCLEAR GAUGE TYPE: GAUGE SERIAL NO.: CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	DRY UNIT WT (pcf)	WET UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Area 1 North	6 / -1	Proctor 88	6.3	139.2	5.8	132.3	140.0	95.0	X				
2	Area 1 North	6 / -1	Proctor 88	6.3	139.2	5.5	134.3	141.7	96.5	X				
3	Area 1 North	6 / -1	Proctor 88	6.3	139.2	5.3	132.5	139.5	95.2	X				
4	Area 1 North	6 / -1	Proctor 88	6.3	139.2	5.8	137.3	145.3	98.6	X				
5	Area 1 North	6 / -1	Proctor 88	6.3	139.2	4.9	132.2	138.7	95.0	X				
6	Area 1 North	6 / 0	Proctor 88	6.3	139.2	5.6	132.3	139.7	95.0	X				
7	Area 1 North	6 / 0	Proctor 88	6.3	139.2	5.4	134.2	141.4	96.4	X				
8	Area 1 North	6 / 0	Proctor 88	6.3	139.2	6.1	135.5	143.8	97.3	X				
9	Area 1 North	6 / 0	Proctor 88	6.3	139.2	5.9	132.5	140.3	95.2	X				
10	Area 1 North	6 / 0	Proctor 88	6.3	139.2	6.3	132.7	141.1	95.3	X				

NOTES:

COMMENTS:

CHECKED BY: HRG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 19 day 4 month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Hawbaker Quarry

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 2 to + 4 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Area 1 North	6 / -1.5	89	5.8	139.3	5.4	136.9	129.9	93.2	X				
2	Area 1 North	6 / -1.5	89	5.8	139.3	6.4	134.4	126.3	90.7	X				
3	Area 1 North	6 / -1.5	89	5.8	139.3	6.1	141	132.9	95.4	X				
4	Area 1 North	6 / -1.5	89	5.8	139.3	4.8	131.4	125.4	90.0	X				
5	Area 1 North	6 / -1.5	89	5.8	139.3	5.6	133.7	126.6	90.9	X				

NOTES:

COMMENTS:

CHECKED BY: HRG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 20 day 4 month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Hawbaker Quarry

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 2 to + 4 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Southern NAF	6 / -3	1	4.3	143	5	134.6	128.2	89.6	x				
2	Southern NAF	6 / -3	1	4.3	143	4.1	135.5	130.2	91.0	x				
3	Southern NAF	6 / -3	1	4.3	143	5.4	143.1	135.8	94.9	x				
4	Southern NAF	6 / -3	1	4.3	143	6	145.5	137.3	96.0	x				
5	Southern NAF	6 / -3	1	4.3	143	4.5	136.9	131.0	91.6	x				

NOTES:

COMMENTS:

CHECKED BY: HRG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 21 day 04 month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Hawbaker Quarry

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 2 to + 4 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Southern NAF	6 / -3	2	4.9	142.5	5.8	137.5	130.0	91.2	x				
2	Southern NAF	6 / -3	2	4.9	142.5	5.7	141.7	134.1	94.1	x				
3	Southern NAF	6 / -3	2	4.9	142.5	6	138	130.2	91.4	x				
4	Southern NAF	6 / -3	2	4.9	142.5	5	133.5	127.1	89.2	x				
5	Southern NAF	6 / -3	2	4.9	142.5	4.2	137.2	131.7	92.4	x				

NOTES:

COMMENTS:

CHECKED BY: HRG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 24 day 04 month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Hawbaker Quarry

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 2 to + 4 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Southern NAF	6 / -2.3	3	4	144.9	5.5	138.6	131.4	90.7	x				
2	Southern NAF	6 / -2.3	3	4	144.9	5.9	137.3	129.7	89.5	x				
3	Southern NAF	6 / -2.3	3	4	144.9	5.5	132.6	125.7	86.7	x				
4	Southern NAF	6 / -2.3	3	4	144.9	6.7	143.2	134.2	92.6	x				
5	Southern NAF	6 / -2.3	3	4	144.9	5.4	132.4	125.6	86.7	x				

NOTES:

COMMENTS:

CHECKED BY: HRG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 26 day 04 month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewer's Pit - #2A

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 2 to + 4 of OPT.

NUCLEAR GAUGE TYPE: Troxler 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Southern NAF	6 / -1.4	4	4	145.1	5.9	148.4	140.1	96.6	x				
2	Southern NAF	6 / -1.4	4	4	145.1	6	144.3	136.1	93.8	x				
3	Southern NAF	6 / -1.4	4	4	145.1	5.5	143.7	136.2	93.9	x				
4	Southern NAF	6 / -1.4	4	4	145.1	5.4	147.3	139.8	96.3	x				
5	Southern NAF	6 / -1.4	4	4	145.1	6	141.7	133.7	92.1	x				
6	Southern NAF	6 / -1.4	4	4	145.1	7.1	145.5	135.9	93.6		x			

NOTES:

COMMENTS: Test 6 failed for moisture.

CHECKED BY: _____

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 26 day 04 month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Hawbaker Quarry

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 2 to + 4 of OPT.

NUCLEAR GAUGE TYPE: GAUGE SERIAL NO.: CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
6	Area 6 North	6 / -1.5	90	6.4	139	5.2	129.9	123.5	88.8	x				
7	Area 6 North	6 / -1.5	90	6.4	139	6.1	135.2	127.4	91.7	x				
8	Area 6 North	6 / -1.5	90	6.4	139	6.5	141.7	133.1	95.7	x				
9	Area 6 North	6 / -1.5	90	6.4	139	5.5	137	129.9	93.4	x				
10	Area 6 North	6 / -1.5	90	6.4	139	5.6	130.6	123.7	89.0	x				
11	Area 6 North	6 / -0.5	90	6.4	139	8.3	140	129.3	93.0	x				
12	Area 6 North	6 / -0.5	90	6.4	139	7.3	140.5	130.9	94.2	x				
13	Area 6 North	6 / -0.5	90	6.4	139	8.4	139.6	128.8	92.6	x				
14	Area 6 North	6 / -0.5	90	6.4	139	6.1	127.4	120.1	86.4	x				

NOTES:

COMMENTS:

CHECKED BY:

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 27 day 04 month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Hawbaker Quarry

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 2 to + 4 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Southern NAF	6 / -0.5	5	4.8	143.8	6.3	143.6	135.1	93.9	x				
2	Southern NAF	6 / -0.5	5	4.8	143.8	6.1	142.2	134.0	93.2	x				
3	Southern NAF	6 / -0.5	5	4.8	143.8	5.3	144.8	137.5	95.6	x				
4	Southern NAF	6 / -0.5	5	4.8	143.8	6.2	147.2	138.6	96.4	x				
5	Southern NAF	6 / -0.5	5	4.8	143.8	5.8	140.7	133.0	92.5	x				
6	Southern NAF	6 / -0.5	6	5.3	144.4	7.2	139.6	130.2	90.2	x				
7	Southern NAF	6 / -0.5	6	5.3	144.4	6.5	143.9	135.1	93.6	x				
8	Southern NAF	6 / -0.5	6	5.3	144.4	6.4	142.8	134.2	92.9	x				
9	Southern NAF	6 / -0.5	6	5.3	144.4	5.6	135.4	128.2	88.8	x				
10	Southern NAF	6 / -0.5	6	5.3	144.4	6.1	135.8	128.0	88.6	x				

NOTES:

COMMENTS:

CHECKED BY: HRG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 5 day 5 month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers Pit

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 2 to + 4 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	S. third (N) & Middle third (S)	6 / -2.3	6	5.3	144.4	5.3	141.8	134.7	93.3	x				
2	S. third (N) & Middle third (S)	6 / -2.3	6	5.3	144.4	4.8	135.9	129.7	89.8	x				
3	S. third (N) & Middle third (S)	6 / -2.3	6	5.3	144.4	4.2	137.3	131.8	91.3	x				
4	S. third (N) & Middle third (S)	6 / -2.3	6	5.3	144.4	5.7	143.9	136.1	94.3	x				
5	S. third (N) & Middle third (S)	6 / -2.3	6	5.3	144.4	3.6	137.3	132.5	91.8	x				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 8 day 5 month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers pit

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	NW portionof southern third	6 / -1.3	BP Proctor 7	5.3	144.7	8.6		0.0	90.8		X			
2	Southern portion of middle 3rd	6 / -1.3	BP Proctor 7	5.3	144.7	7.6	146.9	136.5	94.3		X			
3	NW portionof southern third	6 / -1.3	BP Proctor 7	5.3	144.7	8.6	145	133.5	92.3		X	X		X
4	Southern portion of middle 3rd	6 / -1.3	BP Proctor 7	5.3	144.7	5	139.4	132.8	91.7	X				
5	Southern portion of middle 3rd	6 / -1.3	BP Proctor 7	5.3	144.7	4.8	132.8	126.7	87.6	X				
6	Southern portion of middle 3rd	6 / -1.3	BP Proctor 7	5.3	144.7	6.3	142.8	134.3	92.8	X				
7	Southern portion of middle 3rd	6 / -1.3	BP Proctor 7	5.3	144.7	5.2	132.1	125.6	86.8	X				
8	Southern portion of middle 3rd	6 / -1.3	BP Proctor 7	5.3	144.7	6.2	143.8	135.4	93.6	X				

NOTES:

COMMENTS: Test 1 and 3 failed in the same location. Surrounding area that appeared to be wet was removed from the -1.3 bgs lift and will be incorporated with lower grades adjacent.

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 9 day 5 month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers pit

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Area 1 on photo	6 / -3.0	BP Proctor 7	5.3	144.7	4.9	141.9	135.3	93.5	X				
2	Area 1 on photo	6 / -3.0	BP Proctor 7	5.3	144.7	5.1	145.5	138.4	95.7	X				
3	Area 1 on photo	6 / -3.0	BP Proctor 7	5.3	144.7	5.7	144.7	136.9	94.6	X				
4	Area 1 on photo	6 / -3.0	BP Proctor 7	5.3	144.7	5.9	150.3	141.9	98.1	X				
5	Area 1 on photo	6 / -3.0	BP Proctor 7	5.3	144.7	6.6	144.9	135.9	93.9		X	5 RT	X	
5 RT	Area 1 on photo	6 / -3.0	BP Proctor 7	5.3	144.7	5.1	140.2	133.4	92.2	X				
6	Area 2 on photo	6 / -2.3	BP Proctor 7	5.3	144.7	4.6	142.1	135.9	93.9	X				
7	Area 2 on photo	6 / -2.3	BP Proctor 7	5.3	144.7	5.1	145.5	138.4	95.7	X				
8	Area 2 on photo	6 / -2.3	BP Proctor 7	5.3	144.7	5	141.7	135.0	93.3	X				
9	Area 2 on photo	6 / -2.3	BP Proctor 7	5.3	144.7	5.3	144.3	137.0	94.7	X				
10	Area 2 on photo	6 / -2.3	BP Proctor 7	5.3	144.7	5.7	147.5	139.5	96.4	X				
11	Area 3 on photo	6 / -1.8	BP Proctor 7	5.3	144.7	5.3	143.1	135.9	93.9	X				
12	Area 3 on photo	6 / -1.8	BP Proctor 7	5.3	144.7	4.1	134.3	129.0	89.2	X				
13	Area 3 on photo	6 / -1.8	BP Proctor 7	5.3	144.7	5.4	144.3	136.9	94.6	X				

NOTES:

COMMENTS: Test 5 failed from field observation of pumping; scarified, dried and retested.

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 9 day 5 month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers pit

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
14	Area 3 on photo	6 / -1.8	BP Proctor 7	5.3	144.7	3.4	132.7	128.3	88.7	X				
15	Area 3 on photo	6 / -1.8	BP Proctor 7	5.3	144.7	5	144.9	138.0	95.4	X				
16	Area 4 on photo	6 / -1.3	BP Proctor 8	5.7	143.7	4.7	141.4	135.1	94.0	X				
17	Area 4 on photo	6 / -1.3	BP Proctor 8	5.7	143.7	5.3	142.6	135.4	94.2	X				
18	Area 4 on photo	6 / -1.3	BP Proctor 8	5.7	143.7	5.2	141.4	134.4	93.5	X				
19	Area 4 on photo	6 / -1.3	BP Proctor 8	5.7	143.7	4.8	142.5	136.0	94.6	X				
20	Area 4 on photo	6 / -1.3	BP Proctor 8	5.7	143.7	5.1	138.9	132.2	92.0	X				
21	Area 5 on photo	6 / -2.3	BP Proctor 8	5.7	143.7	5.2	139.8	132.9	92.5	X				
22	Area 5 on photo	6 / -2.3	BP Proctor 8	5.7	143.7	4.6	145.1	138.7	96.5	X				
23	Area 5 on photo	6 / -2.3	BP Proctor 8	5.7	143.7	5.8	140.1	132.4	92.2	X				
24	Area 5 on photo	6 / -2.3	BP Proctor 8	5.7	143.7	5.7	143.9	136.1	94.7		X			
25	Area 5 on photo	6 / -1.8	BP Proctor 8	5.7	143.7	5	142.6	135.8	94.5	X				

NOTES:

COMMENTS: Test 24 failed from field observation of pumping in two spots; scarified and dried on 5/10/23

CHECKED BY: ZRM


3
2
1
4
5

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FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 10 day 5 month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE:

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Northeast portion of S. 3rd	6 / -2.3	BP Proctor 8	5.7	143.7	4.3	137	131.4	91.4	X				
2	Northeast portion of S. 3rd	6 / -2.3	BP Proctor 8	5.7	143.7	4.7	145.1	138.6	96.4	X				
3	Northeast portion of S. 3rd	6 / -2.3	BP Proctor 8	5.7	143.7	4.1	137.4	132.0	91.9	X				
4	Northeast portion of S. 3rd	6 / -2.3	BP Proctor 8	5.7	143.7	4.2	134.7	129.3	90.0	X				
5	Northeast portion of S. 3rd	6 / -2.3	BP Proctor 8	5.7	143.7	4.9	134.3	128.0	89.1	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 11 day 5 month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers pit

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	West side southern third NAF	6 / -2.3	BP Proctor 8	5.7	143.7	5.4	140.4	133.2	92.7	X				
2	West side southern third NAF	6 / -2.3	BP Proctor 8	5.7	143.7	3.9	142.9	137.5	95.7	X				
3	West side southern third NAF	6 / -2.3	BP Proctor 8	5.7	143.7	4.9	134.2	127.9	89.0	X				
4	West side southern third NAF	6 / -2.3	BP Proctor 8	5.7	143.7	5.4	133.4	126.6	88.1	X				
5	West side southern third NAF	6 / -2.3	BP Proctor 8	5.7	143.7	4.7	144.3	137.8	95.9	X				

NOTES:

COMMENTS: All re-tests; previously failed for pumping

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 11 day 5 month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PennDOT#2ATypeS

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Northwest of MSA	6 / 0.5	Proctor 89	5.8	139.3	5.7	136.5	129.1	92.7	X				
2	Northwest of MSA	6 / 0.5	Proctor 89	5.8	139.3	4.1	134.5	129.2	92.8	X				
3	Northwest of MSA	6 / 0.5	Proctor 89	5.8	139.3	3.8	132.5	127.6	91.6	X				
4	Northwest of MSA	6 / 0.5	Proctor 89	5.8	139.3	4.4	133.8	128.2	92.0	X				
5	Northwest of MSA	6 / 0.5	Proctor 89	5.8	139.3	4.3	134.7	129.1	92.7	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 12 day 5 month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers pit

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Northeast portion of S. third	6 / -1.3	BP Proctor 9	5.7	143.3	3.8	138.4	133.3	93.0	X				
2	Northeast portion of S. third	6 / -1.3	BP Proctor 9	5.7	143.3	4.3	138.7	133.0	92.8	X				
3	Northeast portion of S. third	6 / -1.3	BP Proctor 9	5.7	143.3	6	145.5	137.3	95.8	X				
4	Northeast portion of S. third	6 / -1.3	BP Proctor 9	5.7	143.3	4.2	133.2	127.8	89.2	X				
5	Northeast portion of S. third	6 / -1.3	BP Proctor 9	5.7	143.3	4.8	142.2	135.7	94.7	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 13 day May month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Edger - Brewer's Pit

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Cental portion of NAF - W of light pole	6 / -1.3	BP Proctor 9	5.7	143.3	4	135.3	130.3	91.0	X				
2	Cental portion of NAF - W of light pole	6 / -1.3	BP Proctor 9	5.7	143.3	3.9	131.6	126.7	88.4	X				
3	Cental portion of NAF - W of light pole	6 / 1.3	BP Proctor 9	5.7	143.3	3.8	133.1	128.2	89.5	X				
4	Cental portion of NAF - W of light pole	6 / -1.3	BP Proctor 9	5.7	143.3	4	132.5	127.4	88.9	X				
5	Cental portion of NAF - W of light pole	6 / -1.3	BP Proctor 9	5.7	143.3	3.3	132.7	128.5	89.7	X				
6	Southern third of NAF - NW corner	6 / -1.3	BP Proctor 9	5.7	143.3	5.9	139.3	131.5	91.7	X				
7	Southern third of NAF - NW corner	6 / -1.3	BP Proctor 9	5.7	143.3	5.6	145.8	138.1	96.4	X				
8	Southern third of NAF - NW corner	6 / -1.3	BP Proctor 9	5.7	143.3	4.7	143.8	137.4	95.9	X				
9	Southern third of NAF - NW corner	6 / -1.3	BP Proctor 9	5.7	143.3	4.7	142.8	136.5	95.3	X				
10	Southern third of NAF - NW corner	6 / -1.3	BP Proctor 9	5.7	143.3	5	144.2	137.4	95.9	X				

NOTES:

COMMENTS:

CHECKED BY: HRG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 16 day May month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers pit

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Section 1 of southern third NAF	6 / -0.5	BP Proctor 10	5.2	143.5	3.7	137.2	132.3	92.2	X				
2	Section 1 of southern third NAF	6 / -0.5	BP Proctor 10	5.2	143.5	3.7	129.7	125.1	87.2	X				
3	Section 1 of southern third NAF	6 / -0.5	BP Proctor 10	5.2	143.5	4.3	135.6	130.0	90.6	X				
4	Section 1 of southern third NAF	6 / -0.5	BP Proctor 10	5.2	143.5	3.4	129.4	125.1	87.2	X				
5	Section 1 of southern third NAF	6 / -0.5	BP Proctor 10	5.2	143.5	4.3	142.3	136.4	95.1	X				
6	Section 2 of southern third NAF	6 / -0.5	BP Proctor 11	3.8	142	3.2	131.6	127.5	89.8	X				
7	Section 2 of southern third NAF	6 / -0.5	BP Proctor 11	3.8	142	3.9	142.5	137.2	96.6	X				
8	Section 2 of southern third NAF	6 / -0.5	BP Proctor 11	3.8	142	3.8	138.7	133.6	94.1	X				
9	Section 2 of southern third NAF	6 / -0.5	BP Proctor 11	3.8	142	3.4	133	128.6	90.6	X				
10	Section 2 of southern third NAF	6 / -0.5	BP Proctor 11	3.8	142	3.4	138.6	134.0	94.4	X				
11	Section 3 of southern third NAF	6 / -0.5	BP Proctor 12	3.6	141.9	3.2	133.4	129.3	91.1	X				
12	Section 3 of southern third NAF	6 / -0.5	BP Proctor 12	3.6	141.9	3.8	130.7	125.9	88.7	X				
13	Section 3 of southern third NAF	6 / -0.5	BP Proctor 12	3.6	141.9	3.1	136.4	132.3	93.2	X				
14	Section 3 of southern third NAF	6 / -0.5	BP Proctor 12	3.6	141.9	2.9	127.2	123.6	87.1	X				
15	Section 3 of southern third NAF	6 / -0.5	BP Proctor 12	3.6	141.9	5.1	136.3	129.7	91.4	X				
16	Section 4 of southern third NAF	6 / -0.5	BP Proctor 13	5	140.3	5.2	124.5	118.3	84.4		X	16 RT	X	
16 RT	Section 4 of southern third NAF	6 / -0.5	BP Proctor 13	5	140.3	4.1	134.7	129.4	92.2	X				
17	Section 4 of southern third NAF	6 / -0.5	BP Proctor 13	5	140.3	5.5	139.1	131.8	94.0	X				
18	Section 4 of southern third NAF	6 / -0.5	BP Proctor 13	5	140.3	4.1	139.9	134.4	95.8	X				
19	Section 4 of southern third NAF	6 / -0.5	BP Proctor 13	5	140.3	4.4	131.4	125.9	89.7	X				
20	Section 4 of southern third NAF	6 / -0.5	BP Proctor 13	5	140.3	4.7	130.2	124.4	88.6	X				

NOTES:

COMMENTS:

CHECKED BY: EG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 17 day May month _____ year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers pit

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: _____ MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y= _____

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	5.17.23 drone photo section 1	6 / -0.5	BP Proctor 13	-5	140.3	4.1	136.9	131.5	93.7	X				
2	5.17.23 drone photo section 1	6 / -0.5	BP Proctor 13	-5	140.3	4.4	140.4	134.5	95.9	X				
3	5.17.23 drone photo section 1	6 / -0.5	BP Proctor 13	-5	140.3	3.9	136.1	131.0	93.3	X				
4	5.17.23 drone photo section 1	6 / -0.5	BP Proctor 13	-5	140.3	3.6	126.5	122.1	87.1	X				
5	5.17.23 drone photo section 1	6 / -0.5	BP Proctor 13	-5	140.3	4.7	135.8	129.7	92.4	X				
6	5.17.23 drone photo section 2	6 / -1.3	BP Proctor 14	4.9	139.2	4.1	129.2	124.1	89.1	X				
7	5.17.23 drone photo section 2	6 / -1.3	BP Proctor 14	4.9	139.2	4.5	124.4	119.1	85.6	X				
8	5.17.23 drone photo section 2	6 / -1.3	BP Proctor 14	4.9	139.2	5.9	146	137.9	99.1	X				
9	5.17.23 drone photo section 2	6 / 1.3	BP Proctor 14	4.9	139.2	3.9	138.5	133.3	95.8	X				
10	5.17.23 drone photo section 2	6 / -1.3	BP Proctor 14	4.9	139.2	5	133.7	127.3	91.5	X				
11	5.17.23 drone photo section 3	6 / -2.3	BP Proctor 14	4.9	139.2	4.7	138	131.8	94.7	X				
12	5.17.23 drone photo section 3	6 / -2.3	BP Proctor 14	4.9	139.2	5.4	141.8	134.6	96.7	X				
13	5.17.23 drone photo section 3	6 / -2.3	BP Proctor 14	4.9	139.2	5	143.8	137.0	98.4	X				
14	5.17.23 drone photo section 3	6 / -2.3	BP Proctor 14	4.9	139.2	5.1	142.4	135.6	97.4	X				
15	5.17.23 drone photo section 3	6 / -2.3	BP Proctor 14	4.9	139.2	5.9	144.1	136.1	97.8	X				
16	5.17.23 drone photo section 4	6 / -3.3	BP Proctor 15	5.7	141.5	4.6	131.4	125.6	88.8	X				
17	5.17.23 drone photo section 4	6 / -3.3	BP Proctor 15	5.7	141.5	3.5	129.5	125.1	88.4	X				
18	5.17.23 drone photo section 4	6 / -3.3	BP Proctor 15	5.7	141.5	4.9	144.4	137.7	97.3	X				
19	5.17.23 drone photo section 4	6 / -3.3	BP Proctor 15	5.7	141.5	4.7	141.3	135.0	95.4	X				
20	5.17.23 drone photo section 4	6 / -3.3	BP Proctor 15	5.7	141.5	4.6	140.9	134.7	95.2	X				

21	5.17.23 drone photo section 5	6	-4.3	BP Proctor 15	5.7	141.5	4.7	139.9	133.6	94.4	X				
22	5.17.23 drone photo section 5	6	-4.3	BP Proctor 15	5.7	141.5	4.6	126.2	120.7	85.3	X				
23	5.17.23 drone photo section 5	6	-4.3	BP Proctor 15	5.7	141.5	4.8	142.6	136.1	96.2	X				
24	5.17.23 drone photo section 5	6	-5.3	BP Proctor 15	5.7	141.5	4.7	141.4	135.1	95.5	X				
25	5.17.23 drone photo section 5	6	-5.3	BP Proctor 15	5.7	141.5	5.1	141	134.2	94.8	X				

NOTES:

COMMENTS:

CHECKED BY: EG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 18 day May month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers Pit

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Section 1 of 5.18.2023 Drone photo	6 / -0.5	BP Proctor 15	5.7	141.5	4.5	127.3	121.8	86.1	X				
2	Section 1 of 5.18.2023 Drone photo	6 / -0.5	BP Proctor 15	5.7	141.5	4.2	134.3	128.9	91.1	X				
3	Section 1 of 5.18.2023 Drone photo	6 / -0.5	BP Proctor 15	5.7	141.5	5.1	138.8	132.1	93.3	X				
4	Section 1 of 5.18.2023 Drone photo	6 / -0.5	BP Proctor 15	5.7	141.5	4	133.3	128.2	90.6	X				
5	Section 1 of 5.18.2023 Drone photo	6 / -0.5	BP Proctor 15	5.7	141.5	4.1	125.7	120.7	85.3	X				
6	Section 2 of 5.18.2023 Drone photo	6 / -1.3	BP Proctor 15	5.7	141.5	5.6	141	133.5	94.4	X				
7	Section 2 of 5.18.2023 Drone photo	6 / -1.3	BP Proctor 15	5.7	141.5	5	139.7	133.0	94.0	X				
8	Section 2 of 5.18.2023 Drone photo	6 / -1.3	BP Proctor 15	5.7	141.5	5.3	141.9	134.8	95.2	X				
9	Section 2 of 5.18.2023 Drone photo	6 / -1.3	BP Proctor 15	5.7	141.5	5.2	135	128.3	90.7	X				
10	Section 2 of 5.18.2023 Drone photo	6 / -1.3	BP Proctor 15	5.7	141.5	5.5	139.2	131.9	93.2	X				
11	Section 3 of 5.18.2023 Drone photo	6 / -2.2	BP Proctor 16	6.1	141	5.4	142.6	135.3	96.0	X				
12	Section 3 of 5.18.2023 Drone photo	6 / -2.2	BP Proctor 16	6.1	141	4.9	133.7	127.5	90.4	X				
13	Section 3 of 5.18.2023 Drone photo	6 / -2.2	BP Proctor 16	6.1	141	5.4	139.4	132.3	93.8	X				
14	Section 3 of 5.18.2023 Drone photo	6 / -2.2	BP Proctor 16	6.1	141	5.1	141.5	134.6	95.5	X				
15	Section 3 of 5.18.2023 Drone photo	6 / -2.2	BP Proctor 16	6.1	141	4.8	143.9	137.3	97.4	X				
16	Section 4 of 5.18.2023 Drone photo	6 / -3.3	BP Proctor 16	6.1	141	5.2	142.5	135.5	96.1	X				
17	Section 4 of 5.18.2023 Drone photo	6 / -3.3	BP Proctor 16	6.1	141	5.2	139.7	132.8	94.2	X				
18	Section 4 of 5.18.2023 Drone photo	6 / -3.3	BP Proctor 16	6.1	141	4.6	137.3	131.3	93.1	X				
19	Section 4 of 5.18.2023 Drone photo	6 / -3.3	BP Proctor 16	6.1	141	4.3	123.4	118.3	83.9		X	5/19 test	X	
20	Section 4 of 5.18.2023 Drone photo	6 / -3.3	BP Proctor 16	6.1	141	5.4	140.9	133.7	94.8	X				
21	Section 5 of 5.18.2023 Drone photo	6 / -4.3	BP Proctor 16	6.1	141	5.3	143.3	136.1	96.5	X				
22	Section 5 of 5.18.2023 Drone photo	6 / -4.3	BP Proctor 16	6.1	141	4.7	136.7	130.6	92.6	X				
23	Section 5 of 5.18.2023 Drone photo	6 / -4.3	BP Proctor 16	6.1	141	5.3	135	128.2	90.9	X				
24	Section 5 of 5.18.2023 Drone photo	6 / -4.3	BP Proctor 16	6.1	141	5.2	141.3	134.3	95.3	X				
25	Section 5 of 5.18.2023 Drone photo	6 / -4.3	BP Proctor 16	6.1	141	4.8	134.5	128.3	91.0	X				

NOTES:

COMMENTS: Retest 19 taken on 5/19/2023, see test log

CHECKED BY: EG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 19 day 5 month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE:

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Section 1 of 5.19.2023 Drone photo	6 / -3.3	BP Proctor 17	5.7	141.5	4.7	136.7	130.6	92.3	X				
2	Section 1 of 5.19.2023 Drone photo	6 / -3.3	BP Proctor 17	5.7	141.5	5.3	146.4	139.0	98.3	X				
3	Section 1 of 5.19.2023 Drone photo	6 / -3.3	BP Proctor 17	5.7	141.5	5.3	140.5	133.4	94.3	X				
4	Section 1 of 5.19.2023 Drone photo	6 / -3.3	BP Proctor 17	5.7	141.5	4.8	130.6	124.6	88.1	X				
5	Section 1 of 5.19.2023 Drone photo	6 / -3.3	BP Proctor 17	5.7	141.5	5.2	140.3	133.4	94.3	X				
6	Section 2 of 5.19.2023 Drone photo	6 / -2.3	BP Proctor 17	5.7	141.5	4.7	139.8	133.5	94.4	X				
7	Section 2 of 5.19.2023 Drone photo	6 / -2.3	BP Proctor 17	5.7	141.5	4	126.8	121.9	86.2	X				
8	Section 2 of 5.19.2023 Drone photo	6 / -2.3	BP Proctor 17	5.7	141.5	5.6	143.2	135.6	95.8	X				
9	Section 2 of 5.19.2023 Drone photo	6 / -2.3	BP Proctor 17	5.7	141.5	6.7	146.3	137.1	96.9	X				
10	Section 2 of 5.19.2023 Drone photo	6 / -2.3	BP Proctor 17	5.7	141.5	5.8	139.4	131.8	93.1	X				
19 retest	Section 4 of 5.18.2023 Drone photo	6 / -3.3	BP Proctor 16	6.1	141	4.1	138.8	133.3	94.6	X				

NOTES:

COMMENTS:

CHECKED BY: EG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 22 day May month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers pit Item 4

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	N. portion Area 2	6 / -1.3	BP Proctor 17	5.7	142.6	4.8	137.3	131.0	91.9	X				
2	N. portion Area 2	6 / -1.3	BP Proctor 17	5.7	142.6	5.5	142.3	134.9	94.6	X				
3	N. portion Area 2	6 / -1.3	BP Proctor 17	5.7	142.6	5.1	141.8	134.9	94.6	X				
4	N. portion Area 2	6 / -1.3	BP Proctor 17	5.7	142.6	5.7	147.5	139.5	97.9	X				
5	N. portion Area 2	6 / -1.3	BP Proctor 17	5.7	142.6	4.3	142.8	136.9	96.0	X				

NOTES:

COMMENTS:

CHECKED BY: HRG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 24 day May month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers Pit

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Section 1 of 5.24.23 drone photo	6 / -0.5	BP Proctor 17	5.7	142.6	3.8	128.8	124.1	87.0	X				
2	Section 1 of 5.24.23 drone photo	6 / -0.5	BP Proctor 17	5.7	142.6	4.6	141.3	135.1	94.7	X				
3	Section 1 of 5.24.23 drone photo	6 / -0.5	BP Proctor 17	5.7	142.6	4.4	139.6	133.7	93.8	X				
4	Section 1 of 5.24.23 drone photo	6 / -0.5	BP Proctor 17	5.7	142.6	4.3	139	133.3	93.5	X				
5	Section 1 of 5.24.23 drone photo	6 / -0.5	BP Proctor 17	5.7	142.6	3.3	137.3	132.9	93.2	X				
6	Section 2 of 5.24.23 drone photo	6 / -0.5	BP Proctor 18	6.2	139.5	3	133.2	129.3	92.7	X				
7	Section 2 of 5.24.23 drone photo	6 / -0.5	BP Proctor 18	6.2	139.5	4.1	123.6	118.7	85.1	X				
8	Section 2 of 5.24.23 drone photo	6 / -0.5	BP Proctor 18	6.2	139.5	4.5	129.5	123.9	88.8	X				
9	Section 2 of 5.24.23 drone photo	6 / -0.5	BP Proctor 18	6.2	139.5	3.6	122.9	118.6	85.0	X				
10	Section 2 of 5.24.23 drone photo	6 / -0.5	BP Proctor 18	6.2	139.5	3.7	131.1	126.4	90.6	X				
		/												
		/												
		/												
		/												

NOTES:

COMMENTS:

CHECKED BY: EG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 25 day May month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers Pit

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	5.25.2023 drone photo section 1	6 / -0.5	BP Proctor 18	6.2	139.5	3.6	135.5	130.8	93.8	X				
2	5.25.2023 drone photo section 1	6 / -0.5	BP Proctor 18	6.2	139.5	3.8	127.7	123.0	88.2	X				
3	5.25.2023 drone photo section 1	6 / -0.5	BP Proctor 18	6.2	139.5	4.6	137.8	131.7	94.4	X				
4	5.25.2023 drone photo section 1	6 / -0.5	BP Proctor 18	6.2	139.5	4.4	133.3	127.7	91.5	X				
5	5.25.2023 drone photo section 1	6 / -0.5	BP Proctor 18	6.2	139.5	3.8	133.3	128.4	92.1	X				
6	5.25.2023 drone photo section 2	6 / -0.5	BP Proctor 19	4.8	142.2	3.4	135.6	131.1	92.2	X				
7	5.25.2023 drone photo section 2	6 / -0.5	BP Proctor 19	4.8	142.2	3.3	129.1	125.0	87.9	X				
8	5.25.2023 drone photo section 2	6 / -0.5	BP Proctor 19	4.8	142.2	4	131.5	126.4	88.9	X				
9	5.25.2023 drone photo section 2	6 / -0.5	BP Proctor 19	4.8	142.2	3.8	131.6	126.8	89.2	X				
10	5.25.2023 drone photo section 2	6 / -0.5	BP Proctor 19	4.7	142.2	3.8	133.1	128.2	90.2	X				
		/												
		/												
		/												
		/												
		/												

NOTES:

COMMENTS:

CHECKED BY: EG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 25 day May month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville Penn DOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Addendum 8 Phase 2 Area E	6 / -1.7	BP Proctor 90	6.4	139	4.8	132.1	126.0	90.7	X				
2	Addendum 8 Phase 2 Area E	6 / -1.7	BP Proctor 90	6.4	139	4.1	128.2	123.2	88.6	X				
3	Addendum 8 Phase 2 Area E	6 / -1.7	BP Proctor 90	6.4	139	4.2	130.8	125.5	90.3	X				
4	Addendum 8 Phase 2 Area E	6 / -1.7	BP Proctor 90	6.4	139	5.8	136.3	128.8	92.7	X				
5	Addendum 8 Phase 2 Area E	6 / -1.7	BP Proctor 90	6.4	139	4.6	134.3	128.4	92.4	X				
6	Addendum 8 Phase 2 Area E	6 / -1.0	BP Proctor 90	6.4	139	5	128.1	122.0	87.8	X				
7	Addendum 8 Phase 2 Area E	6 / -1.0	BP Proctor 90	6.4	139	4.6	133.1	127.2	91.5	X				
8	Addendum 8 Phase 2 Area E	6 / -1.0	BP Proctor 90	6.4	139	5.2	133.2	126.6	91.1	X				
9	Addendum 8 Phase 2 Area E	6 / -1.0	BP Proctor 90	6.4	139	4.9	130	123.9	89.2	X				
10	Addendum 8 Phase 2 Area E	6 / -1.0	BP Proctor 90	6.4	139	5.1	134.2	127.7	91.9	X				
11	Addendum 8 Phase 2 Area E	6 / -0.5	BP Proctor 90	6.4	139	5.4	132.1	125.3	90.2	X				
12	Addendum 8 Phase 2 Area E	6 / -0.5	BP Proctor 90	6.4	139	5.4	137.8	130.7	94.1	X				
13	Addendum 8 Phase 2 Area E	6 / -0.5	BP Proctor 90	6.4	139	4.7	127.5	121.8	87.6	X				
14	Addendum 8 Phase 2 Area E	6 / -0.5	BP Proctor 90	6.4	139	5.2	130.5	124.0	89.2	X				
15	Addendum 8 Phase 2 Area E	6 / -0.5	BP Proctor 90	6.4	139	5.2	137	130.2	93.7	X				

NOTES:

COMMENTS:

CHECKED BY: EG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 8 day June month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville Penn DOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Addendum 8 Phase 2 Area B	6 / -1.5	Proctor 7	6.1	138.2	5.2	135.7	129.0	93.3	X				
2	Addendum 8 Phase 2 Area B	6 / -1.5	Proctor 7	6.1	138.2	4.9	138.8	132.3	95.7	X				
3	Addendum 8 Phase 2 Area B	6 / -1.5	Proctor 7	6.1	138.2	5	135.9	129.4	93.7	X				
4	Addendum 8 Phase 2 Area B	6 / -1.5	Proctor 7	6.1	138.2	4.6	131.9	126.1	91.2	X				
5	Addendum 8 Phase 2 Area B	6 / -1.5	Proctor 7	6.1	138.2	4.9	130.6	124.5	90.1	X				
6	Addendum 8 Phase 2 Area A	6 / -1.5	Proctor 7	6.1	138.2	5.2	133.6	127.0	91.9	X				
7	Addendum 8 Phase 2 Area A	6 / -1.5	Proctor 7	6.1	138.2	5.9	135.2	127.7	92.4	X				
8	Addendum 8 Phase 2 Area A	6 / -1.5	Proctor 7	6.1	138.2	5.9	139.5	131.7	95.3	X				
9	Addendum 8 Phase 2 Area A	6 / -1.5	Proctor 7	6.1	138.2	5.3	130.9	124.3	90.0	X				
10	Addendum 8 Phase 2 Area A	6 / -1.5	Proctor 7	6.1	138.2	5.2	133.5	126.9	91.8	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 9 day June month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville Penn DOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Addendum 8 Phase 2 Area A	6 / -0.5	Proctor 7	6.1	138.2	6.8	138.3	129.5	93.7	X				
2	Addendum 8 Phase 2 Area A	6 / -0.5	Proctor 7	6.1	138.2	5.5	134.1	127.1	92.0	X				
3	Addendum 8 Phase 2 Area A	6 / -0.5	Proctor 7	6.1	138.2	6.8	141.8	132.8	96.1	X				
4	Addendum 8 Phase 2 Area A	6 / -0.5	Proctor 7	6.1	138.2	5.9	133.2	125.8	91.0	X				
5	Addendum 8 Phase 2 Area A	6 / -0.5	Proctor 7	6.1	138.2	6.6	136.2	127.8	92.5	X				
6	Addendum 8 Phase 2 Area B	6 / -0.5	Proctor 7	6.1	138.2	6.1	133.8	126.1	91.2	X				
7	Addendum 8 Phase 2 Area B	6 / -0.5	Proctor 7	6.1	138.2	5.8	136.3	128.8	93.2	X				
8	Addendum 8 Phase 2 Area B	6 / -0.5	Proctor 7	6.1	138.2	5.9	130.2	122.9	89.0	X				
9	Addendum 8 Phase 2 Area B	6 / -0.5	Proctor 7	6.1	138.2	5.7	134.4	127.2	92.0	X				
10	Addendum 8 Phase 2 Area B	6 / -0.5	Proctor 7	6.1	138.2	5.7	127.7	120.8	87.4	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 19 day June month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville Penn DOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Addendum 8 Phase 2 Area D	6 / -1.5	Proctor 8	7	138.4	7.3	146.3	136.3	98.5	X				
2	Addendum 8 Phase 2 Area D	6 / -1.5	Proctor 8	7	138.4	7.1	146	136.3	98.5	X				
3	Addendum 8 Phase 2 Area D	6 / -1.5	Proctor 8	7	138.4	7.6	143.2	133.1	96.2	X				
4	Addendum 8 Phase 2 Area D	6 / -1.5	Proctor 8	7	138.4	7.5	146	135.8	98.1	X				
5	Addendum 8 Phase 2 Area D	6 / -1.5	Proctor 8	7	138.4	7.7	146.4	135.9	98.2	X				
6	Addendum 8 Phase 2 Area D	6 / -0.5	Proctor 8	7	138.4	6.4	132.5	124.5	90.0	X				
7	Addendum 8 Phase 2 Area D	6 / -0.5	Proctor 8	7	138.4	6.9	135.2	126.5	91.4	X				
8	Addendum 8 Phase 2 Area D	6 / -0.5	Proctor 8	7	138.4	6.3	136.6	128.5	92.8	X				
9	Addendum 8 Phase 2 Area D	6 / -0.5	Proctor 8	7	138.4	7	139.6	130.5	94.3	X				
10	Addendum 8 Phase 2 Area D	6 / -0.5	Proctor 8	7	138.4	6.3	139.5	131.2	94.8	X				

NOTES:

COMMENTS:

CHECKED BY: CR

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 20 day June month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville Penn DOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	See Drone 6/20/23	6 / -4.0	Proctor 10	7	139.3	6.8	134.9	126.3	90.7	X				
2	See Drone 6/20/23	6 / -4.0	Proctor 10	7	139.3	6.6	132.6	124.4	89.3	X				
3	See Drone 6/20/23	6 / -4.0	Proctor 10	7	139.3	6	137.7	129.9	93.3	X				
4	See Drone 6/20/23	6 / -4.0	Proctor 10	7	139.3	6	129.2	121.9	87.5	X				
5	See Drone 6/20/23	6 / -4.0	Proctor 10	7	139.3	6.6	142.5	133.7	96.0	X				
6	See Drone 6/20/23	6 / -3.0	Proctor 10	7	139.3	6.6	134.9	126.5	90.8	X				
7	See Drone 6/20/23	6 / -3.0	Proctor 10	7	139.3	6.1	132.3	124.7	89.5	X				
8	See Drone 6/20/23	6 / -3.0	Proctor 10	7	139.3	7.4	138.6	129.1	92.6	X				
9	See Drone 6/20/23	6 / -3.0	Proctor 10	7	139.3	7.4	140.7	131.0	94.0	X				
10	See Drone 6/20/23	6 / -3.0	Proctor 10	7	139.3	5.9	134.7	127.2	91.3	X				
11	See Drone 6/20/23	6 / -5.0	Proctor 10	7	139.3	5.7	136.1	128.8	92.4	X				
12	See Drone 6/20/23	6 / -5.0	Proctor 10	7	139.3	6.4	137.5	129.2	92.8	X				
13	See Drone 6/20/23	6 / -5.0	Proctor 10	7	139.3	6.2	133	125.2	89.9	X				
14	See Drone 6/20/23	6 / -5.0	Proctor 10	7	139.3	6.1	135.9	128.1	92.0	X				
15	See Drone 6/20/23	6 / -5.0	Proctor 10	7	139.3	5.9	137.8	130.1	93.4	X				
16	See Drone 6/20/23	6 / -4.0	Proctor 10	7	139.3	7.4	146.3	136.2	97.8	X				
17	See Drone 6/20/23	6 / -4.0	Proctor 10	7	139.3	5.6	141.3	133.8	96.1	X				
18	See Drone 6/20/23	6 / -4.0	Proctor 10	7	139.3	6.8	146.8	137.5	98.7	X				
19	See Drone 6/20/23	6 / -4.0	Proctor 10	7	139.3	6.5	135.3	127.0	91.2	X				
20	See Drone 6/20/23	6 / -4.0	Proctor 10	7	139.3	6	129.9	122.5	88.0	X				

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FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 20 day June month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville Penn DOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
21	See Drone 6/20/23	6 / -3.0	Proctor 11	7.2	137.5	5.9	137.3	129.7	94.3	X				
22	See Drone 6/20/23	6 / -3.0	Proctor 11	7.2	137.5	6.3	129.5	121.8	88.6	X				
23	See Drone 6/20/23	6 / -3.0	Proctor 11	7.2	137.5	6.3	140.1	131.8	95.9	X				
24	See Drone 6/20/23	6 / -3.0	Proctor 11	7.2	137.5	6.5	142.3	133.6	97.2	X				
25	See Drone 6/20/23	6 / -3.0	Proctor 11	7.2	137.5	6.1	131.3	123.8	90.0	X				
26	See Drone 6/20/23	6 / -2.0	Proctor 11	7.2	137.5	6	143	134.9	98.1	X				
27	See Drone 6/20/23	6 / -2.0	Proctor 11	7.2	137.5	6	146.3	138.0	100.4	X				
28	See Drone 6/20/23	6 / -2.0	Proctor 11	7.2	137.5	6.2	137.5	129.5	94.2	X				
29	See Drone 6/20/23	6 / -2.0	Proctor 11	7.2	137.5	5.9	129.3	122.1	88.8	X				
30	See Drone 6/20/23	6 / -2.0	Proctor 11	7.2	137.5	5.9	135.9	128.3	93.3	X				

NOTES:

COMMENTS:

CHECKED BY: CR

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 21 day June month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville Penn DOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	See Drone 6/21/23	6 / -5.0	Proctor 11	7.2	137.5	6.2	142.8	134.5	97.8	X				
2	See Drone 6/21/23	6 / -5.0	Proctor 11	7.2	137.5	6.5	139.2	130.7	95.1	X				
3	See Drone 6/21/23	6 / -5.0	Proctor 11	7.2	137.5	6.8	143	133.9	97.4	X				
4	See Drone 6/21/23	6 / -5.0	Proctor 11	7.2	137.5	6.6	141.4	132.6	96.5	X				
5	See Drone 6/21/23	6 / -5.0	Proctor 11	7.2	137.5	6.3	137.6	129.4	94.1	X				
6	See Drone 6/21/23	6 / -4.0	Proctor 11	7.2	137.5	6.1	133.4	125.7	91.4	X				
7	See Drone 6/21/23	6 / -4.0	Proctor 11	7.2	137.5	6.4	131.3	123.4	89.7	X				
8	See Drone 6/21/23	6 / -4.0	Proctor 11	7.2	137.5	6.5	130.6	122.6	89.2	X				
9	See Drone 6/21/23	6 / -4.0	Proctor 11	7.2	137.5	6.6	134.2	125.9	91.6	X				
10	See Drone 6/21/23	6 / -4.0	Proctor 11	7.2	137.5	6.3	129.7	122.0	88.7	X				
11	See Drone 6/21/23	6 / -3.0	Proctor 11	7.2	137.5	6.2	136.7	128.7	93.6	X				
12	See Drone 6/21/23	6 / -3.0	Proctor 11	7.2	137.5	6.4	140.1	131.7	95.8	X				
13	See Drone 6/21/23	6 / -3.0	Proctor 11	7.2	137.5	6.3	132.8	124.9	90.9	X				
14	See Drone 6/21/23	6 / -3.0	Proctor 11	7.2	137.5	6.2	124.2	116.9	85.1	X				
15	See Drone 6/21/23	6 / -3.0	Proctor 11	7.2	137.5	6.1	142.7	134.5	97.8	X				
16	See Drone 6/21/23	6 / -2.0	Proctor 11	7.2	137.5	6.4	141.3	132.8	96.6	X				
17	See Drone 6/21/23	6 / -2.0	Proctor 11	7.2	137.5	5.5	137.2	130.0	94.6	X				
18	See Drone 6/21/23	6 / -2.0	Proctor 11	7.2	137.5	6.5	144.1	135.3	98.4	X				
19	See Drone 6/21/23	6 / -2.0	Proctor 11	7.2	137.5	6.4	144.3	135.6	98.6	X				
20	See Drone 6/21/23	6 / -2.0	Proctor 11	7.2	137.5	6.7	140.6	131.8	95.8	X				

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 21 day June month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville Penn DOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
21	See Drone 6/21/23	6 / -1.0	Proctor 12	6.7	137.2	5.5	130.2	123.4	90.0	X				
22	See Drone 6/21/23	6 / -1.0	Proctor 12	6.7	137.2	5.4	135.6	128.7	93.8	X				
23	See Drone 6/21/23	6 / -1.0	Proctor 12	6.7	137.2	5.4	133.2	126.4	92.1	X				
24	See Drone 6/21/23	6 / -1.0	Proctor 12	6.7	137.2	5.4	143.4	136.1	99.2	X				
25	See Drone 6/21/23	6 / -1.0	Proctor 12	6.7	137.2	5.6	131.5	124.5	90.8	X				
26	See Drone 6/21/23	6 / -0.5	Proctor 12	6.7	137.2	5.1	136.7	130.1	94.8	X				
27	See Drone 6/21/23	6 / -0.5	Proctor 12	6.7	137.2	5	131	124.8	90.9	X				
28	See Drone 6/21/23	6 / -0.5	Proctor 12	6.7	137.2	5.4	129.2	122.6	89.3	X				
29	See Drone 6/21/23	6 / -0.5	Proctor 12	6.7	137.2	5.7	139.6	132.1	96.3	X				
30	See Drone 6/21/23	6 / -0.5	Proctor 12	6.7	137.2	4.7	131.3	125.4	91.4	X				
31	See Drone 6/21/23	6 / -2.0	Proctor 12	6.7	137.2	5.3	137.3	130.4	95.0	X				
32	See Drone 6/21/23	6 / -2.0	Proctor 12	6.7	137.2	6.7	136.5	127.9	93.2	X				
33	See Drone 6/21/23	6 / -2.0	Proctor 12	6.7	137.2	4.7	125.1	119.5	87.1	X				
34	See Drone 6/21/23	6 / -2.0	Proctor 12	6.7	137.2	5.4	137.8	130.7	95.3	X				
35	See Drone 6/21/23	6 / -2.0	Proctor 12	6.7	137.2	5	134	127.6	93.0	X				
36	See Drone 6/21/23	6 / -1.0	Proctor 12	6.7	137.2	5	139	132.4	96.5	X				
37	See Drone 6/21/23	6 / -1.0	Proctor 12	6.7	137.2	4.5	133.5	127.8	93.1	X				
38	See Drone 6/21/23	6 / -1.0	Proctor 12	6.7	137.2	4.6	138.3	132.2	96.4	X				
39	See Drone 6/21/23	6 / -1.0	Proctor 12	6.7	137.2	4.7	137.8	131.6	95.9	X				
40	See Drone 6/21/23	6 / -1.0	Proctor 12	6.7	137.2	5.4	139.5	132.4	96.5	X				

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 21 day June month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville Penn DOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
41	See Drone 6/21/23	6 / -0.5	Proctor 13	6.6	136.1	5.4	134.6	127.7	93.8	X				
42	See Drone 6/21/23	6 / -0.5	Proctor 13	6.6	136.1	4.6	133.7	127.8	93.9	X				
43	See Drone 6/21/23	6 / -0.5	Proctor 13	6.6	136.1	4.9	137.8	131.4	96.5	X				
44	See Drone 6/21/23	6 / -0.5	Proctor 13	6.6	136.1	5.8	141.2	133.5	98.1	X				
45	See Drone 6/21/23	6 / -0.5	Proctor 13	6.6	136.1	5.1	137.9	131.2	96.4	X				

NOTES:

COMMENTS:

CHECKED BY: CR

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 22 day June month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville Penn DOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	See Drone 6/22/23	6 / -0.5	Proctor 13	6.6	136.1	4.4	130.4	124.9	91.8	X				
2	See Drone 6/22/23	6 / -0.5	Proctor 13	6.6	136.1	5.4	126.2	119.7	88.0	X				
3	See Drone 6/22/23	6 / -0.5	Proctor 13	6.6	136.1	5	138.9	132.3	97.2	X				
4	See Drone 6/22/23	6 / -0.5	Proctor 13	6.6	136.1	5.7	139.7	132.2	97.1	X				
5	See Drone 6/22/23	6 / -0.5	Proctor 13	6.6	136.1	4.7	136.9	130.8	96.1	X				
6	See Drone 6/22/23	6 / -0.5	Proctor 13	6.6	136.1	5.2	132.9	126.3	92.8	X				
7	See Drone 6/22/23	6 / -0.5	Proctor 13	6.6	136.1	5.3	143.2	136.0	99.9	X				
8	See Drone 6/22/23	6 / -0.5	Proctor 13	6.6	136.1	4.8	136.9	130.6	96.0	X				
9	See Drone 6/22/23	6 / -0.5	Proctor 13	6.6	136.1	5	144.4	137.5	101.0	X				
10	See Drone 6/22/23	6 / -0.5	Proctor 13	6.6	136.1	5.2	141.4	134.4	98.8	X				
11	See Drone 6/22/23	6 / -0.5	Proctor 13	6.6	136.1	5.2	142.4	135.4	99.5	X				
12	See Drone 6/22/23	6 / -0.5	Proctor 13	6.6	136.1	4.8	132.8	126.7	93.1	X				
13	See Drone 6/22/23	6 / -0.5	Proctor 13	6.6	136.1	5.5	136.9	129.8	95.3	X				
14	See Drone 6/22/23	6 / -0.5	Proctor 13	6.6	136.1	5.3	145.6	138.3	101.6	X				
15	See Drone 6/22/23	6 / -0.5	Proctor 13	6.6	136.1	5.6	137.7	130.4	95.8	X				
16	See Drone 6/22/23	6 / -1.5	Proctor 13	6.6	136.1	5.1	138.6	131.9	96.9	X				
17	See Drone 6/22/23	6 / -1.5	Proctor 13	6.6	136.1	4.9	134.1	127.8	93.9	X				
18	See Drone 6/22/23	6 / -1.5	Proctor 13	6.6	136.1	5.3	135	128.2	94.2	X				
19	See Drone 6/22/23	6 / -1.5	Proctor 13	6.6	136.1	5.8	137	129.5	95.1	X				
20	See Drone 6/22/23	6 / -1.5	Proctor 13	6.6	136.1	5.3	131	124.4	91.4	X				

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FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 22 day June month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville Penn DOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
21	See Drone 6/22/23	6 / -2.0	Proctor 13	6.6	136.1	4.1	128.6	123.5	90.8	X				
22	See Drone 6/22/23	6 / -2.0	Proctor 13	6.6	136.1	4.8	131.9	125.9	92.5	X				
23	See Drone 6/22/23	6 / -2.0	Proctor 13	6.6	136.1	5.2	129.9	123.5	90.7	X				
24	See Drone 6/22/23	6 / -2.0	Proctor 13	6.6	136.1	5.5	122	115.6	85.0	X				
25	See Drone 6/22/23	6 / -2.0	Proctor 13	6.6	136.1	4.7	127.8	122.1	89.7	X				
26	See Drone 6/22/23	6 / -0.5	Proctor 13	6.6	136.1	5	131.6	125.3	92.1	X				
27	See Drone 6/22/23	6 / -0.5	Proctor 13	6.6	136.1	4.7	130.2	124.4	91.4	X				
28	See Drone 6/22/23	6 / -0.5	Proctor 13	6.6	136.1	6.1	141.9	133.7	98.3	X				
29	See Drone 6/22/23	6 / -0.5	Proctor 13	6.6	136.1	4.7	128.8	123.0	90.4	X				
30	See Drone 6/22/23	6 / -0.5	Proctor 13	6.6	136.1	5.6	139.8	132.4	97.3	X				
31	See Drone 6/22/23	6 / -1.5	Proctor 13	6.6	136.1	4.6	131.6	125.8	92.4	X				
32	See Drone 6/22/23	6 / -1.5	Proctor 13	6.6	136.1	4.2	132.9	127.5	93.7	X				
33	See Drone 6/22/23	6 / -1.5	Proctor 13	6.6	136.1	4.2	134.5	129.1	94.8	X				
34	See Drone 6/22/23	6 / -1.5	Proctor 13	6.6	136.1	4.7	132.8	126.8	93.2	X				
35	See Drone 6/22/23	6 / -1.5	Proctor 13	6.6	136.1	4.6	133.5	127.6	93.8	X				
36	See Drone 6/22/23	6 / -1.0	Proctor 13	6.6	136.1	4.4	133.4	127.8	93.9	X				

NOTES:

COMMENTS:

CHECKED BY: CR

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 29 day June month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Addendum 8 Phase 2 Area C	6 / -5.0	Proctor 2	6.9	135.6	7.1	132.4	123.6	91.2	X				
2	Addendum 8 Phase 2 Area C	6 / -5.0	Proctor 2	6.9	135.6	7.6	133.3	123.9	91.4	X				
3	Addendum 8 Phase 2 Area C	6 / -5.0	Proctor 2	6.9	135.6	7.2	136.5	127.3	93.9	X				
4	Addendum 8 Phase 2 Area C	6 / -5.0	Proctor 2	6.9	135.6	6	135.1	127.5	94.0	X				
5	Addendum 8 Phase 2 Area C	6 / -5.0	Proctor 2	6.9	135.6	6.5	127.6	119.8	88.4	X				
6	Addendum 8 Phase 2 Area C	6 / -4.0	Proctor 2	6.9	135.6	6.2	131	123.4	91.0	X				
7	Addendum 8 Phase 2 Area C	6 / -4.0	Proctor 2	6.9	135.6	6.3	134	126.1	93.0	X				
8	Addendum 8 Phase 2 Area C	6 / -4.0	Proctor 2	6.9	135.6	6.4	131	123.1	90.8	X				
9	Addendum 8 Phase 2 Area C	6 / -4.0	Proctor 2	6.9	135.6	5.7	131	123.9	91.4	X				
10	Addendum 8 Phase 2 Area C	6 / -4.0	Proctor 2	6.9	135.6	6.1	135.1	127.3	93.9	X				
11	Addendum 8 Phase 2 Area C	6 / -3.0	Proctor 2	6.9	135.6	6.5	133	124.9	92.1	X				
12	Addendum 8 Phase 2 Area C	6 / -3.0	Proctor 2	6.9	135.6	6.3	140.8	132.5	97.7	X				
13	Addendum 8 Phase 2 Area C	6 / -3.0	Proctor 2	6.9	135.6	6	133.9	126.3	93.2	X				
14	Addendum 8 Phase 2 Area C	6 / -3.0	Proctor 2	6.9	135.6	7	133.9	125.1	92.3	X				
15	Addendum 8 Phase 2 Area C	6 / -3.0	Proctor 2	6.9	135.6	6.4	127.6	119.9	88.4	X				
16	Addendum 8 Phase 2 Area C	6 / -2.0	Proctor 91	6	140.3	5.8	135.4	128.0	91.2	X				
17	Addendum 8 Phase 2 Area C	6 / -2.0	Proctor 91	6	140.3	6.2	141.3	133.1	94.8	X				
18	Addendum 8 Phase 2 Area C	6 / -2.0	Proctor 91	6	140.3	6.7	139.9	131.1	93.5	X				
19	Addendum 8 Phase 2 Area C	6 / -2.0	Proctor 91	6	140.3	6.2	129.7	122.1	87.0	X				
20	Addendum 8 Phase 2 Area C	6 / -2.0	Proctor 91	6	140.3	6	133.1	125.6	89.5	X				
21	Addendum 8 Phase 2 Area C	6 / -1.0	Proctor 91	6	140.3	5.9	132.4	125.0	89.1	X				
22	Addendum 8 Phase 2 Area C	6 / -1.0	Proctor 91	6	140.3	5.5	128.6	121.9	86.9	X				

23	Addendum 8 Phase 2 Area C	6 / -1.0	Proctor 91	6	140.3	6	137.9	130.1	92.7	X					
24	Addendum 8 Phase 2 Area C	6 / -1.0	Proctor 91	6	140.3	4.7	139.2	133.0	94.8	X					
25	Addendum 8 Phase 2 Area C	6 / -1.0	Proctor 91	6	140.3	5.9	146.8	138.6	98.8	X					
26	Addendum 8 Phase 2 Area C	6 / -0.5	Proctor 91	6	140.3	4.9	127.4	121.4	86.6	X					
27	Addendum 8 Phase 2 Area C	6 / -0.5	Proctor 91	6	140.3	5.4	133.6	126.8	90.3	X					
28	Addendum 8 Phase 2 Area C	6 / -0.5	Proctor 91	6	140.3	5	130.6	124.4	88.7	X					
29	Addendum 8 Phase 2 Area C	6 / -0.5	Proctor 91	6	140.3	4.9	133.6	127.4	90.8	X					
30	Addendum 8 Phase 2 Area C	6 / -0.5	Proctor 91	6	140.3	5.3	129	122.5	87.3	X					

NOTES:

COMMENTS: _____

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CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 30 day June month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	NW NAF	6 / -0.5	Proctor 89	5.8	139.3	3.9	133	128.0	91.9	X				
2	NW NAF	6 / -0.5	Proctor 89	5.8	139.3	4.9	134.4	128.1	92.0	X				
3	NW NAF	6 / -0.5	Proctor 89	5.8	139.3	5.1	135.1	128.5	92.3	X				
4	NW NAF	6 / -0.5	Proctor 89	5.8	139.3	3.6	129.6	125.1	89.8	X				
5	NW NAF	6 / -0.5	Proctor 89	5.8	139.3	3.8	127.2	122.5	88.0	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 6 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	NW of N. third. See markup.	6 / -2.0	Proctor 91	6	140.3	7	139.6	130.5	93.0	X				
2	NW of N. third. See markup.	6 / -2.0	Proctor 91	6	140.3	7.5	138.9	129.2	92.1	X				
3	NW of N. third. See markup.	6 / -2.0	Proctor 91	6	140.3	6.8	142.3	133.2	95.0	X				
4	NW of N. third. See markup.	6 / -2.0	Proctor 91	6	140.3	7.3	136.8	127.5	90.9	X				
5	NW of N. third. See markup.	6 / -2.0	Proctor 91	6	140.3	6.9	141.7	132.6	94.5	X				
6	NW of N. third. See markup.	6 / -0.5	Proctor 91	6	140.3	5.8	137.4	129.9	92.6	X				
7	NW of N. third. See markup.	6 / -0.5	Proctor 91	6	140.3	6.5	147.2	138.2	98.5	X				
8	NW of N. third. See markup.	6 / -0.5	Proctor 91	6	140.3	4.6	136.6	130.6	93.1	X				
9	NW of N. third. See markup.	6 / -0.5	Proctor 91	6	140.3	4.1	134.5	129.2	92.1	X				
10	NW of N. third. See markup.	6 / -0.5	Proctor 91	6	140.3	4.9	132	125.8	89.7	X				
11	NW of N. third. See markup.	6 / -1.5	Proctor 91	6	140.3	6.9	138.5	129.6	92.3	X				
12	NW of N. third. See markup.	6 / -1.5	Proctor 91	6	140.3	6.6	139.2	130.6	93.1	X				
13	NW of N. third. See markup.	6 / -1.5	Proctor 91	6	140.3	6.8	141.7	132.7	94.6	X				
14	NW of N. third. See markup.	6 / -1.5	Proctor 91	6	140.3	6.9	138.2	129.3	92.1	X				
15	NW of N. third. See markup.	6 / -1.5	Proctor 91	6	140.3	5.8	140	132.3	94.3	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 7 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers pit item 4

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Infiltration Gallery	6 / 1.0	BP Proctor 19	4.8	142.2	6.4	144.6	135.9	95.6	X				
2	Infiltration Gallery	6 / 1.0	BP Proctor 19	4.8	142.2	6	142	134.0	94.2	X				
3	Infiltration Gallery	6 / 1.0	BP Proctor 19	4.8	142.2	5.7	145.6	137.7	96.9	X				
4	Infiltration Gallery	6 / 1.0	BP Proctor 19	4.8	142.2	5.4	132.8	126.0	88.6	X				
5	Infiltration Gallery	6 / 1.0	BP Proctor 19	4.8	142.2	6.4	145	136.3	95.8	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 7 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PENNDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
6	See drone markup	6 / -4.0	Proctor 91	6	140.3	7.4	143.6	133.7	95.3	X				
7	See drone markup	6 / -4.0	Proctor 91	6	140.3	7.6	134.6	125.1	89.2	X				
8	See drone markup	6 / -4.0	Proctor 91	6	140.3	7.1	141.5	132.1	94.2	X				
9	See drone markup	6 / -4.0	Proctor 91	6	140.3	7	138.9	129.8	92.5	X				
10	See drone markup	6 / -4.0	Proctor 91	6	140.3	7.2	137.7	128.5	91.6	X				
11	See drone markup	6 / -3.0	Proctor 91	6	140.3	7.7	146.9	136.4	97.2	X				
12	See drone markup	6 / -3.0	Proctor 91	6	140.3	5.8	134.5	127.1	90.6	X				
13	See drone markup	6 / -3.0	Proctor 91	6	140.3	6.6	136.7	128.2	91.4	X				
14	See drone markup	6 / -3.0	Proctor 91	6	140.3	6.2	135.6	127.7	91.0	X				
15	See drone markup	6 / -3.0	Proctor 91	6	140.3	5.5	133.2	126.3	90.0	X				
16	See drone markup	6 / -3.0	Proctor 91	6	140.3	7.3	147.9	137.8	98.2	X				
17	See drone markup	6 / -2.0	Proctor 91	6	140.3	6.5	139.8	131.3	93.6	X				
18	See drone markup	6 / -2.0	Proctor 91	6	140.3	4.8	132.4	126.3	90.0	X				
19	See drone markup	6 / -2.0	Proctor 91	6	140.3	7.2	137	127.8	91.1	X				
20	See drone markup	6 / -2.0	Proctor 91	6	140.3	6.5	137.6	129.2	92.1	X				
21	See drone markup	6 / -2.0	Proctor 91	6	140.3	7.2	144.8	135.1	96.3	X				
22	See drone markup	6 / -2.0	Proctor 91	6	140.3	7.1	142.5	133.1	94.8	X				
23	See drone markup	6 / -2.0	Proctor 91	6	140.3	7	144.5	135.0	96.3	X				
24	See drone markup	6 / -2.0	Proctor 91	6	140.3	6.9	141.8	132.6	94.5	X				
25	See drone markup	6 / -2.0	Proctor 91	6	140.3	5.1	138.8	132.1	94.1	X				
26	See drone markup	6 / -2.0	Proctor 91	6	140.3	5.8	134.9	127.5	90.9	X				
27	See drone markup	6 / -1.5	Proctor 92	6.4	140.9	6.1	133.8	126.1	89.5	X				

28	See drone markup	6 / -1.5	Proctor 92	6.4	140.9	6.8	141.4	132.4	94.0	X					
29	See drone markup	6 / -1.5	Proctor 92	6.4	140.9	6.3	143	134.5	95.5	X					
30	See drone markup	6 / -1.5	Proctor 92	6.4	140.9	6.4	128.1	120.4	85.4	X					
31	See drone markup	6 / -1.5	Proctor 92	6.4	140.9	6.4	133.2	125.2	88.8	X					

NOTES:

COMMENTS: _____

_____

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 8 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PENNDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	See drone markup	6 / -2.0	Proctor 92	6.4	140.9	4.8	132.7	126.6	89.9	X				
2	See drone markup	6 / -2.0	Proctor 92	6.4	140.9	5.3	135.6	128.8	91.4	X				
3	See drone markup	6 / -2.0	Proctor 92	6.4	140.9	5	135.2	128.8	91.4	X				
4	See drone markup	6 / -2.0	Proctor 92	6.4	140.9	5.6	134.4	127.3	90.3	X				
5	See drone markup	6 / -2.0	Proctor 92	6.4	140.9	4.7	140.3	134.0	95.1	X				
6	See drone markup	6 / -0.5	Proctor 92	6.4	140.9	5	132.2	125.9	89.4	X				
7	See drone markup	6 / -0.5	Proctor 92	6.4	140.9	5.9	137.9	130.2	92.4	X				
8	See drone markup	6 / -0.5	Proctor 92	6.4	140.9	5.6	140.7	133.2	94.6	X				
9	See drone markup	6 / -0.5	Proctor 92	6.4	140.9	5.4	134.6	127.7	90.6	X				
10	See drone markup	6 / -0.5	Proctor 92	6.4	140.9	4.9	130.5	124.4	88.3	X				
11	See drone markup	6 / -0.5	Proctor 92	6.4	140.9	5.8	137.8	130.2	92.4	X				
12	See drone markup	6 / -0.5	Proctor 92	6.4	140.9	5.6	136.1	128.9	91.5	X				
13	See drone markup	6 / -0.5	Proctor 92	6.4	140.9	5.2	127.8	121.5	86.2	X				
14	See drone markup	6 / -0.5	Proctor 92	6.4	140.9	6.6	137.1	128.6	91.3	X				
15	See drone markup	6 / -0.5	Proctor 92	6.4	140.9	6.1	140.7	132.6	94.1	X				

NOTES:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 10 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers pit item 4

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Infiltration Gallery	6 / 2.0	BP Proctor 19	4.8	142.2	5.1	140.5	133.7	94.0	X				
2	Infiltration Gallery	6 / 2.0	BP Proctor 19	4.8	142.2	5.4	142.9	135.6	95.3	X				
3	Infiltration Gallery	6 / 2.0	BP Proctor 19	4.8	142.2	5.7	149.6	141.5	99.5	X				
4	Infiltration Gallery	6 / 2.0	BP Proctor 19	4.8	142.2	5.8	144.1	136.2	95.8	X				
5	Infiltration Gallery	6 / 2.0	BP Proctor 19	4.8	142.2	5.5	144.4	136.9	96.3	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 11 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers pit item 4

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Infiltration Gallery	6 / 3.0	BP Proctor 19	4.8	142.2	5.7	137.5	130.1	91.5	X				
2	Infiltration Gallery	6 / 3.0	BP Proctor 19	4.8	142.2	6.2	139.6	131.5	92.4	X				
3	Infiltration Gallery	6 / 3.0	BP Proctor 19	4.8	142.2	5.5	139.5	132.2	93.0	X				
4	Infiltration Gallery	6 / 3.0	BP Proctor 19	4.8	142.2	6.8	136.2	127.5	89.7	X				
5	Infiltration Gallery	6 / 3.0	BP Proctor 19	4.8	142.2	5.6	136.5	129.3	90.9	X				

NOTES:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 11 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PENNDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
6	See drone markup	6 / -2.0	Proctor 92	6.4	140.9	4.9	133.8	127.6	90.5	X				
7	See drone markup	6 / -2.0	Proctor 92	6.4	140.9	5.6	140.5	133.0	94.4	X				
8	See drone markup	6 / -2.0	Proctor 92	6.4	140.9	5.8	139.6	131.9	93.6	X				
9	See drone markup	6 / -2.0	Proctor 92	6.4	140.9	6	134	126.4	89.7	X				
10	See drone markup	6 / -2.0	Proctor 92	6.4	140.9	6.8	142.6	133.5	94.8	X				
11	See drone markup	6 / -1.0	Proctor 92	6.4	140.9	4.5	131.7	126.0	89.4	X				
12	See drone markup	6 / -1.0	Proctor 92	6.4	140.9	5.8	137.5	130.0	92.2	X				
13	See drone markup	6 / -1.0	Proctor 92	6.4	140.9	5.7	142.1	134.4	95.4	X				
14	See drone markup	6 / -1.0	Proctor 92	6.4	140.9	4	136.5	131.3	93.2	X				
15	See drone markup	6 / -1.0	Proctor 92	6.4	140.9	5.7	139.1	131.6	93.4	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 11 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PENNDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 6 (in.)

MINIMUM COMPACTION: 95 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
16	Trench STMH #5 to #6	4 / 1.0	Proctor 74	5.8	139.6	4.5	134	128.2	91.9		X			
17	Trench STMH #5 to #1 E. 3rd	4 / 1.0	Proctor 66	5.3	141.7	6.1	138.5	130.5	92.1		X			

NOTES:

COMMENTS: Lifts failed for compaction, conversation to be had about increasing lift thickness to achieve better testing.

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 12 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PENNDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	See drone markup	6 / 1.0	Proctor 74	5.8	139.6	4.7	139.2	133.0	95.2	X				
2	See drone markup	6 / 1.0	Proctor 74	5.8	139.6	4	134.8	129.6	92.8		X			
3	See drone markup	6 / 1.0	Proctor 74	5.8	139.6	4.6	132.3	126.5	90.6		X			
4	See drone markup	6 / 1.0	Proctor 74	5.8	139.6	4.2	135.2	129.8	92.9		X			
10	See drone markup	6 / 1.0	Proctor 66	5.3	141.7	4.9	139.2	132.7	93.6		X			
11	See drone markup	6 / 1.0	Proctor 66	5.3	141.7	5.1	139.6	132.8	93.7		X			

NOTES:

COMMENTS: Test 1 passed and all other tests in the trenches failed. Conversation will be held with ECSD to increse fill thickness.

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 12 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers pit item 4

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
5	Infiltration Gallery	6 / 4.0	BP Proctor 20	4.9	141.7	3.9	137.2	132.1	93.2	X				
6	Infiltration Gallery	6 / 4.0	BP Proctor 20	4.9	141.7	4.7	141.4	135.1	95.3	X				
7	Infiltration Gallery	6 / 4.0	BP Proctor 20	4.9	141.7	6.1	135.8	128.0	90.3	X				
8	Infiltration Gallery	6 / 4.0	BP Proctor 20	4.9	141.7	5.4	141.3	134.1	94.6	X				
9	Infiltration Gallery	6 / 4.0	BP Proctor 20	4.9	141.7	5.7	134	126.8	89.5	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 12 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PENNDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
12	See drone markup	6 / -1.5	Proctor 92	6.4	140.9	6.3	134.1	126.2	89.5	X				
13	See drone markup	6 / -1.5	Proctor 92	6.4	140.9	5.9	140.9	133.1	94.4	X				
14	See drone markup	6 / -1.5	Proctor 92	6.4	140.9	5.7	147	139.1	98.7	X				
15	See drone markup	6 / -1.5	Proctor 92	6.4	140.9	6.4	144.2	135.5	96.2	X				
16	See drone markup	6 / -1.5	Proctor 92	6.4	140.9	6.3	144.7	136.1	96.6	X				
17	See drone markup	6 / -0.5	Proctor 92	6.4	140.9	5.1	135.7	129.1	91.6	X				
18	See drone markup	6 / -0.5	Proctor 92	6.4	140.9	4.7	141.3	135.0	95.8	X				
19	See drone markup	6 / -0.5	Proctor 92	6.4	140.9	3.8	120.2	115.8	82.2		X			
20	See drone markup	6 / -0.5	Proctor 92	6.4	140.9	4.3	128.1	122.8	87.2	X				
21	See drone markup	6 / -0.5	Proctor 92	6.4	140.9	3.9	139.8	134.6	95.5	X				
22	See drone markup	6 / -0.5	Proctor 92	6.4	140.9	5.5	138.3	131.1	93.0			19	X	
23	See drone markup	6 / -1.0	Proctor 92	6.4	140.9	4.6	138.4	132.3	93.9	X				
24	See drone markup	6 / -1.0	Proctor 92	6.4	140.9	5.4	141.2	134.0	95.1	X				
25	See drone markup	6 / -1.0	Proctor 92	6.4	140.9	5.5	136.5	129.4	91.8	X				
26	See drone markup	6 / -1.0	Proctor 92	6.4	140.9	5.5	134.7	127.7	90.6	X				
27	See drone markup	6 / -1.0	Proctor 92	6.4	140.9	5	135.7	129.2	91.7	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 13 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers pit

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Infiltration Gallery	6 / 5	BP Proctor 20	4.9	141.7	4.9	134.1	127.8	90.2	X				
2	Infiltration Gallery	6 / 5	BP Proctor 20	4.9	141.7	5.1	141	134.2	94.7	X				
3	Infiltration Gallery	6 / 5	BP Proctor 20	4.9	141.7	5.4	137.6	130.6	92.1	X				
4	Infiltration Gallery	6 / 5	BP Proctor 20	4.9	141.7	6.2	142.3	134.0	94.6	X				
5	Infiltration Gallery	6 / 5	BP Proctor 20	4.9	141.7	5.1	133.8	127.3	89.8	X				

NOTES:

COMMENTS:

CHECKED BY: HRG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 13 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PENNDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
8	A10 P1	6 / -0.5	Proctor 92	6.4	140.9	5.8	141.4	133.6	94.8	X				
9	A10 P1	6 / -0.5	Proctor 92	6.4	140.9	5.3	145	137.7	97.7	X				
10	A10 P1	6 / -0.5	Proctor 92	6.4	140.9	6.3	143.7	135.2	96.0	X				
11	A10 P1	6 / -0.5	Proctor 92	6.4	140.9	5.1	143	136.1	96.6	X				
12	A10 P1	6 / -0.5	Proctor 92	6.4	140.9	6.8	140.8	131.9	93.6	X				

NOTES:

COMMENTS:

CHECKED BY: ERG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 13 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PENNDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
6	Trench STMH #5 to #6	6 / -1.5	Proctor 74	5.8	139.6	4.7	132.9	126.9	90.9		X			
7	Trench STMH #5 to #1	6 / -1.5	Proctor 66	5.3	141.7	6	136.1	128.4	90.6		X			
13	Trench STMH #5 to #1 Middle 3rd	6 / -0.5	Proctor 66	5.3	141.7	4.5	142.9	136.8	96.5					
14	Trench STMH #5 to #1 Middle 3rd	6 / -0.5	Proctor 66	5.3	141.7	4.8	137	130.8	92.3		X	18	X	
15	Trench STMH #5 to #1 Middle 3rd	6 / -0.5	Proctor 66	5.3	141.7	4.4	141.1	135.1	95.3					
16	Trench STMH #5 to #1 Middle 3rd	6 / -0.5	Proctor 66	5.3	141.7	4.6	137.9	131.8	93.0		X	19	X	
17	Trench STMH #5 to #1 Middle 3rd	6 / -0.5	Proctor 66	5.3	141.7	4.3	138.4	134.6	95.0					
18	Trench STMH #5 to #1 Middle 3rd	6 / -0.5	Proctor 66	5.3	141.7	4.3	144.5	138.6	97.8				X	
19	Trench STMH #5 to #1 Middle 3rd	6 / -0.5	Proctor 66	5.3	141.7	4.6	143.8	137.5	97.0				X	
20	Trench STMH #5 to #1 E 3rd	6 / -0.5	Proctor 66	5.3	141.7	5.3	143.1	135.9	95.9	X				
21	Trench STMH #5 to #1 E 3rd	6 / -0.5	Proctor 66	5.3	141.7	4.9	141.3	134.7	95.1	X				
22	Trench STMH #5 to #1 E 3rd	6 / -0.5	Proctor 66	5.3	141.7	5	139.9	133.2	94.0		X	32	X	
23	Trench STMH #5 to #1 E 3rd	6 / -0.5	Proctor 66	5.3	141.7	5	144.2	137.3	96.9	X				
24	Trench STMH #5 to #1 E 3rd	6 / -0.5	Proctor 66	5.3	141.7	4.3	137	131.4	92.7		X	30	X	
25	Trench STMH #5 to #6	6 / -0.5	Proctor 66	5.3	141.7	4.5	140.3	134.3	94.7	X				
26	Trench STMH #5 to #6	6 / -0.5	Proctor 66	5.3	141.7	5.4	141.9	134.6	95.0	X				
27	Trench STMH #5 to #6	6 / -0.5	Proctor 66	5.3	141.7	4.7	143.2	136.8	96.5	X				
28	Trench STMH #5 to #6	6 / -0.5	Proctor 66	5.3	141.7	4.8	145.7	139.0	98.1	X				
29	Trench STMH #5 to #6	6 / -0.5	Proctor 66	5.3	141.7	5.6	143.2	135.6	95.7	X				
30	Trench STMH #5 to #6	6 / -0.5	Proctor 66	5.3	141.7	5.6	144.3	136.6	96.4				X	
31	Trench STMH #5 to #1 E 3rd	6 / -0.5	Proctor 66	5.3	141.7	4.6	139.3	133.2	94.0		X	33		X
32	Trench STMH #5 to #1 E 3rd	6 / -0.5	Proctor 66	5.3	141.7	4.6	137.5	131.5	92.8					X
33	Trench STMH #5 to #1 E 3rd	6 / -0.5	Proctor 66	5.3	141.7	4.4	134.4	128.7	90.9					X
34	Trench STMH #5 to #1 E 3rd	6 / -0.5	Proctor 66	5.3	141.7	3.5	137.8	133.1	94.0	X				
35	Trench STMH #5 to #1 E 3rd	6 / -0.5	Proctor 66	5.3	141.7	3.6	131.9	127.3	89.8	X				
36	Trench STMH #5 to #1 E 3rd	6 / -0.5	Proctor 66	5.3	141.7	3.9	137.1	132.0	93.1	X				
37	Trench STMH #5 to #1 E 3rd	6 / -0.5	Proctor 66	5.3	141.7	3.3	130	125.8	88.8	X				

NOTES:

COMMENTS:

CHECKED BY: EG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 15 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PENNDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	See 7/15 Drone Markup Section 1	6 / -0.5	Proctor 93	6.8	138.7	5.4	136	129.0	93.0	X				
2	See 7/15 Drone Markup Section 1	6 / -0.5	Proctor 93	6.8	138.7	6	131.8	125.8	90.7	X				
3	See 7/15 Drone Markup Section 1	6 / -0.5	Proctor 93	6.8	138.7	5.8	137.7	130.2	93.9	X				
4	See 7/15 Drone Markup Section 1	6 / -0.5	Proctor 93	6.8	138.7	4.5	133.4	127.7	92.1	X				
5	See 7/15 Drone Markup Section 1	6 / -0.5	Proctor 93	6.8	138.7	6.2	137.5	129.5	93.4	X				
6	See 7/15 Drone Markup Section 2	6 / -2.0	Proctor 94	5.5	139.8	6.5	139.6	131.1	93.6	X				
7	See 7/15 Drone Markup Section 2	6 / -2.0	Proctor 94	5.5	139.8	4.9	135.3	129.0	92.3	X				
8	See 7/15 Drone Markup Section2	6 / -2.0	Proctor 94	5.5	139.8	7.7	144.1	133.8	95.7		X	9	X	
9	See 7/15 Drone Markup Section 2	6 / -2.0	Proctor 94	5.5	139.8	6.8	141.8	132.8	95.0	X				
10	See 7/15 Drone Markup Section 2	6 / -2.0	Proctor 94	5.5	139.8	6.7	145.6	136.5	97.6	X				
11	See 7/15 Drone Markup Section 2	6 / -2.0	Proctor 94	5.5	139.8	7.3	141.9	132.2	94.6	X				
12	See 7/15 Drone Markup Section 3	6 / -1.0	Proctor 94	5.5	139.8	6.8	139.7	130.8	93.6	X				
13	See 7/15 Drone Markup Section 3	6 / -1.0	Proctor 94	5.5	139.8	7	144	134.6	96.3	X				
14	See 7/15 Drone Markup Section 3	6 / -1.0	Proctor 94	5.5	139.8	6.9	136.6	127.8	91.4	X				
15	See 7/15 Drone Markup Section 3	6 / -1.0	Proctor 94	5.5	139.8	6.7	142.2	133.3	95.3	X				
16	See 7/15 Drone Markup Section 3	6 / -1.0	Proctor 94	5.5	139.8	6.6	134.7	126.4	90.4	X				
17	See 7/15 Drone Markup Section 4	6 / -0.5	Proctor 95	5.8	138.7	6.5	144.5	135.7	97.8	X				
18	See 7/15 Drone Markup Section 4	6 / -0.5	Proctor 95	5.8	138.7	7.1	141	131.7	94.9	X				
19	See 7/15 Drone Markup Section 4	6 / -0.5	Proctor 95	5.8	138.7	6.9	145.4	136.0	98.1	X				
20	See 7/15 Drone Markup Section 4	6 / -0.5	Proctor 95	5.8	138.7	5.8	141.4	133.6	96.4	X				
21	See 7/15 Drone Markup Section 4	6 / -0.5	Proctor 95	5.8	138.7	5.9	137	129.4	93.3	X				
22	See 7/15 Drone Markup Section 5	6 / -0.5	Proctor 96	7	138	6	142.7	134.6	97.6	X				
23	See 7/15 Drone Markup Section5	6 / -0.5	Proctor 96	7	138	5.9	141.3	133.4	96.7	X				
24	See 7/15 Drone Markup Section 5	6 / -0.5	Proctor 96	7	138	6.4	147.7	138.8	100.6	X				
25	See 7/15 Drone Markup Section 5	6 / -0.5	Proctor 96	7	138	4.9	132.6	126.4	91.6	X				
26	See 7/15 Drone Markup Section 5	6 / -0.5	Proctor 96	7	138	4.7	141.9	135.5	98.2	X				
27	See 7/15 Drone Markup Section 6	6 / -0.5	Proctor 96	7	138	6.7	136.1	127.6	92.4	X				
28	See 7/15 Drone Markup Section 6	6 / -0.5	Proctor 96	7	138	6.5	136.7	128.4	93.0	X				
29	See 7/15 Drone Markup Section 6	6 / -0.5	Proctor 96	7	138	7	137.1	128.1	92.8	X				
30	See 7/15 Drone Markup Section 6	6 / -0.5	Proctor 96	7	138	7.1	146.3	136.6	99.0	X				
31	See 7/15 Drone Markup Section 6	6 / -0.5	Proctor 96	7	138	6.8	142.5	133.4	96.7	X				

NOTES:

COMMENTS:

CHECKED BY: EG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 15 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PENNDOT #2A Type S

MATERIAL TYPE: [☑] FILL [ ] SUBGRADE [ ] SUBBASE [ ] CLAY [ ] OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) [X] ASTM D 698 [ ] ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Trench STCB #4 to #5	6 / -0.5	Proctor 66	5.3	141.7	4.6	127.9	122.3	89.3		X			
2	Trench STCB #4 to #5	6 / -0.5	Proctor 66	5.3	141.7	4.2	126.8	121.7	85.9		X			
3	Trench STCB #4 to #5	6 / -0.5	Proctor 66	5.3	141.7	4	127.8	122.9	86.7		X			
4	Trench STCB #4 to #5	6 / -0.5	Proctor 66	5.3	141.7	4.2	120	115.1	81.2		X			
5	Trench STCB #4 to #5	6 / -0.5	Proctor 66	5.3	141.7	4.1	112.8	108.4	76.5		X			

NOTES:

COMMENTS:

CHECKED BY: EG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 15 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PENNDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Trench STMH #1 to #5 retest 1	6 / -0.5	Proctor 66	5.3	141.7	3.4	N/A	N/A	89.3		X			
2	Trench STMH #1 to #5 retest 1	6 / -0.5	Proctor 66	5.3	141.7	4.09	130.4	125.3	88.4		X			
3	Trench STMH #1 to #5 retest 1	6 / -0.5	Proctor 66	5.3	141.7	3.8	130.1	133.0	93.9		X			
4	Trench STMH #1 to #5 retest 1	6 / -0.5	Proctor 66	5.3	141.7	3.6	138.6	133.8	94.4		X			
5	Trench STMH #1 to #5 retest 1	6 / -0.5	Proctor 66	5.3	141.7	4.1	142.8	137.1	96.8	X				

NOTES:

COMMENTS:

CHECKED BY:

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 17 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PENNDOT #2A Type S

MATERIAL TYPE: [☑] FILL [ ] SUBGRADE [ ] SUBBASE [ ] CLAY [ ] OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) [X] ASTM D 698 [ ] ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Trench STMH #1 to #5	6 / -1.5	Proctor 74	5.8	139.6	6.4	137	128.8	92.2		X	1 retest	X	
1 retest	Trench STMH #1 to #5	6 / -1.5	Proctor 74	5.8	139.6	7.2	147.2	137.3	98.4	X				
2	Trench STMH #1 to #5	6 / -1.5	Proctor 74	5.8	139.6	8	95.5	88.4	63.3		X	2 retest	X	
2 retest	Trench STMH #1 to #5	6 / -1.5	Proctor 74	5.8	139.6	7.3	95	88.5	63.4	X				
3	Trench STMH #1 to #5	6 / -1.5	Proctor 74	5.8	139.6	7.2	142.3	132.7	95.1	X				
4	Trench STMH #1 to #5	6 / -1.5	Proctor 74	5.8	139.6	6.3	144.6	136.0	97.4	X				
5	Trench STMH #1 to #5	6 / -1.5	Proctor 74	5.8	139.6	3.8	137.9	132.9	95.2	X				
6	Trench STMH #5 to #6	6 / -0.5	Proctor 74	5.8	139.6	4.6	140.7	134.5	96.4	X				
7	Trench STMH #5 to #6	6 / -0.5	Proctor 74	5.8	139.6	5.1	141	134.2	96.1	X				
8	Trench STMH #5 to #6	6 / -0.5	Proctor 74	5.8	139.6	4.5	138.6	132.6	95.0	X				
9	Trench STMH #5 to #6	6 / -0.5	Proctor 74	5.8	139.6	4.8	140.9	134.4	96.3	X				
10	Trench STMH #5 to #6	6 / -0.5	Proctor 74	5.8	139.6	3.7	134	129.2	92.6		X	10 retest	X	
10 retest	Trench STMH #5 to #6	6 / -0.5	Proctor 74	5.8	139.6	4	138.2	132.9	95.2	X				
11	Trench STCB #5 to #4	6 / -1.5	Proctor 62	5.4	140.4	5.1	142.3	135.4	96.4	X				
12	Trench STCB #5 to #4	6 / -1.5	Proctor 62	5.4	140.4	5.1	143	136.1	96.9	X				
13	Trench STCB #5 to #4	6 / -0.5	Proctor 62	5.4	140.4	4.6	140.3	134.1	95.5	X				
14	Trench STCB #5 to #4	6 / -0.5	Proctor 62	5.4	140.4	4.4	135.7	130.0	92.6		X	14 retest		X
15	CB5 Storm Spur to the West	6 / -1.5	Proctor 62	5.4	140.4	5.1	134.1	127.6	90.9		X	15 retest		X
14 retest	CB5 Storm Spur to the West	6 / -1.5	Proctor 62	5.4	140.4	4.7	125.9	120.2	85.6		X	14 retest 2		X
15 retest	CB5 Storm Spur to the West	6 / -1.5	Proctor 62	5.4	140.4	5.4	139.6	132.4	94.3		X	15 retest2	X	
14 retest 2	CB5 Storm Spur to the West	6 / -1.5	Proctor 62	5.4	140.4	4.9	133.1	126.9	90.4		X	14 retest 3	X	
14 retest 3	CB5 Storm Spur to the West	6 / -1.5	Proctor 62	5.4	140.4	6.2	144.5	136.1	96.9	X				
15 retest 2	CB5 Storm Spur to the West	6 / -1.5	Proctor 62	5.4	140.4	4.2	141.5	135.8	96.7	X				

NOTES:

COMMENTS:

CHECKED BY: EG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 18 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PENNDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Trench STCB #5 to #4	6 / -0.5	Proctor 62	5.4	140.4	4.4	143.6	137.5	98.0	X				
2	Trench STCB #5 to #4	6 / -0.5	Proctor 62	5.4	140.4	5.1	137.5	130.8	93.2		X	2 retest		X
3	Trench STCB #5 to #4	6 / -0.5	Proctor 62	5.4	140.4	5	137.8	131.2	93.5		X	3 retest		X
4	Trench STCB #5 to #4	6 / -0.5	Proctor 62	5.4	140.4	4.8	139.8	133.4	95.0	X				
5	Trench STCB #5 to #4	6 / -0.5	Proctor 62	5.4	140.4	5.9	142.8	134.8	96.0	X				
3 retest	Trench STCB #5 to #4	6 / -0.5	Proctor 62	5.4	140.4	5.1	136.9	130.3	92.8		X	3 retest 2	X	
2 retest	Trench STCB #5 to #4	6 / -0.5	Proctor 62	5.4	140.4	5.8	133.6	126.3	89.9		X	2 retest 2	X	
3 retest	Trench STCB #5 to #4	6 / -0.5	Proctor 62	5.4	140.4	5.1	151	143.7	102.3	X				
2 retest	Trench STCB #5 to #4	6 / -0.5	Proctor 62	5.4	140.4	4.7	145.9	139.4	99.3	X				
6	Trench STMH #1 to #5	6 / -0.5	Proctor 74	5.8	139.6	3.5	133.2	128.7	92.2		X	6 retest		
7	Trench STMH #1 to #5	6 / -0.5	Proctor 74	5.4	140.4	3.7	132.4	127.7	90.9		X	7 retest		
8	Trench STMH #1 to #5	6 / -0.5	Proctor 74	5.4	140.4	3.4	126.8	122.6	87.3		X	8 retest		
9	Trench STMH #1 to #5	6 / -0.5	Proctor 74	5.4	140.4	5	141.6	134.9	96.1	X				
10	Trench STMH #1 to #5	6 / -0.5	Proctor 74	5.4	140.4	4	143.9	138.4	98.6	X				
6 retest	Trench STMH #1 to #5	6 / -0.5	Proctor 74	5.4	140.4	3.7	131.3	126.6	90.2		X	6 retest 2	X	
7 retest	Trench STMH #1 to #5	6 / -0.5	Proctor 74	5.4	140.4	3.6	131.4	126.8	90.3		X	7 retest 2	X	
8 retest	Trench STMH #1 to #5	6 / -0.5	Proctor 74	5.4	140.4	3.8	128.3	123.6	88.0		X	8 retest 2	X	
6 retest 2	Trench STMH #1 to #5	6 / -0.5	Proctor 74	5.4	140.4	5.2	140.8	133.8	95.3	X				
7 retest 2	Trench STMH #1 to #5	6 / -0.5	Proctor 74	5.4	140.4	3.5	141.4	136.6	97.3	X				
8 retest 2	Trench STMH #1 to #5	6 / -0.5	Proctor 74	5.4	140.4	4.5	141.7	135.6	96.6	X				

COMMENTS:

CHECKED BY: EG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 20 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers pit item 4

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Trench STMH #1 to #5	6 / -0.5	Proctor 74	5.8	139.6	5.2	140.8	133.8	95.9	X				
2	Trench STMH #1 to #5	6 / -0.5	Proctor 74	5.8	139.6	3.5	141.4	136.6	97.9	X				
3	Trench STMH #1 to #5	6 / -0.5	Proctor 74	5.8	139.6	4.5	148	141.6	101.5	X				
4	CB5 Storm Spur to the West	6 / -1.5	Proctor 62	5.4	140.4	6.2	144.5	136.1	96.9	X				
5	CB5 Storm Spur to the West	6 / -1.5	Proctor 62	5.4	140.4	4.2	141.5	135.8	96.7	X				
6	Trench STCB #5 to #6	6 / -0.5	Proctor 62	5.4	140.4	4.7	145.9	139.4	99.3	X				
7	Trench STCB #5 to #6	6 / -0.5	Proctor 62	5.4	140.4	5.7	151	142.9	101.8	X				
8	Trench STCB #5 to #6	6 / -0.5	Proctor 10	5.2	143.5	5.5	139.3	132.0	92.0		X	13	X	
9	Trench STCB #5 to #6	6 / -0.5	Proctor 10	5.2	143.5	5.7	139.6	132.1	92.0		X	14		X
10	Trench STCB #5 to #6	6 / -0.5	Proctor 10	5.2	143.5	4.5	140.9	134.8	94.0		X	15	X	
11	Trench STCB #5 to #6	6 / -0.5	Proctor 10	5.2	143.5	5.1	131.2	124.8	87.0		X	16		X
12	Trench STCB #5 to #6	6 / -0.5	Proctor 10	5.2	143.5	4.4	133.1	127.5	88.8		X	17		X
13	Trench STCB #5 to #6	6 / -0.5	Proctor 10	5.2	143.5	5.9	144.6	136.5	95.2	X				
14	Trench STCB #5 to #6	6 / -0.5	Proctor 10	5.2	143.5	5.2	140.2	133.3	92.9		X	18	X	
15	Trench STCB #5 to #6	6 / -0.5	Proctor 10	5.2	143.5	5.3	144.6	137.3	95.7	X				
16	Trench STCB #5 to #6	6 / -0.5	Proctor 10	5.2	143.5	5.2	134.8	128.1	89.3		X	N/A		
17	Trench STCB #5 to #6	6 / -0.5	Proctor 10	5.2	143.5	6.2	136.6	128.6	89.6		X	N/A		
18	Trench STCB #5 to #6	6 / -0.5	Proctor 10	5.2	143.5	5.2	144.2	137.1	95.5	X				
19	Trench CB #6 to MH #1	6 / -1.5	Proctor 13	5	140.3	5.8	132.6	125.3	89.3		X	N/A		
20	Trench CB #6 to MH #1	6 / -1.5	Proctor 13	5	140.3	5.1	139.2	132.4	94.4	X				
21	Trench CB #6 to MH #1	6 / -1.5	Proctor 13	5	140.3	4.7	140.3	134.0	95.5	X				
22	Trench CB #6 to MH #1	6 / -1.5	Proctor 13	5	140.3	5.3	139.4	132.4	94.4		X	23		X
23	Trench CB #6 to MH #1	6 / -1.5	Proctor 13	5	140.3	4.8	128.7	122.8	87.5		X	N/A		
24	Trench CB #6 to MH #1	6 / -1.5	Proctor 13	5	140.3	4.3	131.3	125.9	89.7		X	N/A		
25	Trench STCB #3 to #1	6 / -1.5	Proctor 17	5.7	142.6	5.9	145.6	137.5	96.4	X		24-Jul		
26	Trench STCB #3 to #1	6 / -1.5	Proctor 17	5.7	142.6	6	151	142.5	99.9	X		24-Jul		
27	Trench STCB #3 to #1	6 / -1.5	Proctor 17	5.7	142.6	5.3	136.6	129.7	91.0		X	30	X	
28	Trench STCB #3 to #1	6 / -1.5	Proctor 17	5.7	142.6	4.7	138.4	132.2	92.7	X		24-Jul		
29	Trench STCB #3 to #1	6 / -1.5	Proctor 17	5.7	142.6	4.1	137.8	132.4	92.8	X		24-Jul		
30	Trench STCB #3 to #1	6 / -1.5	Proctor 17	5.7	142.6	6.4	149.5	140.5	98.5	X		24-Jul		
31	CB #2 Storm Spur to the North	6 / -1.5	Proctor 17	5.7	142.6	5.4	139.5	132.4	92.8		X	37	X	
32	Trench CB #3 to MH #1	6 / -1.5	Proctor 14	4.9	139.2	4.8	143	136.5	98.0	X				
33	Trench CB #3 to MH #1	6 / -1.5	Proctor 14	4.9	139.2	5	144.6	137.7	98.9	X				
34	Trench CB #3 to MH #1	6 / -1.5	Proctor 14	4.9	139.2	5.9	143.7	135.7	97.5	X				
35	Trench CB #3 to MH #1	6 / -1.5	Proctor 14	4.9	139.2	5.4	141.3	134.1	96.3	X				
36	Trench CB #3 to MH #1	6 / -1.5	Proctor 14	4.9	139.2	5	140.3	133.6	96.0	X				
37	CB #2 Storm Spur to the North	6 / -1.5	Proctor 17	5.7	142.6	4.6	145.1	138.7	97.3	X				

NOTES:

COMMENTS: Tests 25 through 30 had gauge malfunctions; retested on 7/24/23

Tests with N/A were retested on 7/23/23.

CHECKED BY: EG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 23 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PENNDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Addendum 10 Phase 2 B74	6 / -2.5	Proctor 96	7	138	6.8	136.8	128.1	92.8	X				
2	Addendum 10 Phase 2 B74	6 / -2.5	Proctor 96	7	138	5.9	137.8	130.1	94.3	X				
3	Addendum 10 Phase 2 B74	6 / -2.5	Proctor 96	7	138	6.3	137.6	129.4	93.8	X				
4	Addendum 10 Phase 2 B74	6 / -2.5	Proctor 96	7	138	5.1	135.7	129.1	93.6	X				
5	Addendum 10 Phase 2 B74	6 / -2.5	Proctor 96	7	138	4.7	132.9	126.9	92.0	X				
6	Addendum 10 Phase 2 B74	6 / -2.0	Proctor 96	7	138	6.9	145.4	136.0	98.6	X				
7	Addendum 10 Phase 2 B74	6 / -2.0	Proctor 96	7	138	6.6	150.3	141.0	102.2	X				
8	Addendum 10 Phase 2 B74	6 / -2.0	Proctor 96	7	138	6.2	139.3	131.2	95.0	X				
9	Addendum 10 Phase 2 B74	6 / -2.0	Proctor 96	7	138	6.2	143.1	134.7	97.6	X				
10	Addendum 10 Phase 2 B74	6 / -2.0	Proctor 96	7	138	6.2	139.7	131.5	95.3	X				
11	Addendum 10 Phase 2 B74	6 / -1.0	Proctor 96	7	138	5	130.2	124.0	89.9	X				
12	Addendum 10 Phase 2 B74	6 / -1.0	Proctor 96	7	138	5.4	135.1	128.2	92.9	X				
13	Addendum 10 Phase 2 B74	6 / -1.0	Proctor 96	7	138	4.6	132.9	127.1	92.1	X				
14	Addendum 10 Phase 2 B74	6 / -1.0	Proctor 96	7	138	5.3	131.8	125.2	90.7	X				
15	Addendum 10 Phase 2 B74	6 / -1.0	Proctor 96	7	138	6	138.6	130.8	94.7	X				

NOTES:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 24 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers pit item 4

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 63530 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Trench CB3-CB1	6 / -1.5	BP Proctor 17	5.7	142.6	3.9	142.2	136.9	96.0	X				
2	Trench CB3-CB1	6 / -1.5	BP Proctor 17	5.7	142.6	4.4	148.5	142.2	99.7	X				
3	Trench CB3-CB1	6 / -1.5	BP Proctor 17	5.7	142.6	4.5	146.5	140.2	98.3	X				
4	Trench CB3-CB1	6 / -1.5	BP Proctor 17	5.7	142.6	5.1	146.6	139.5	97.8	X				
5	Trench CB3-CB1	6 / -1.5	BP Proctor 17	5.7	142.6	4.1	143.3	137.7	96.5	X				

NOTES:

COMMENTS: Retest from 7/20 tests 25-30 due to gauge malfunction

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 31 day July month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville Penn DOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	NE NAF Corner Hump	6 / -0.5	Proctor 97	6.4	138.2	4	134.1	128.9	93.3	X				
2	NE NAF Corner Hump	6 / -0.5	Proctor 97	6.4	138.2	4.6	135.8	129.8	93.9	X				

NOTES:

COMMENTS: Testing was halted due to rain. Resumed 8/1/2023

CHECKED BY: EG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 1 day August month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville Penn DOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	NE NAF Corner Hump	6 / -0.5	Proctor 97	6.4	138.2	4.6	134.4	128.5	93.0	X				
2	NE NAF Corner Hump	6 / -0.5	Proctor 97	6.4	138.2	4.4	143.1	137.1	99.2	X				
3	NE NAF Corner Hump	6 / -0.5	Proctor 97	6.4	138.2	5.1	138.5	131.8	95.4	X				
4	NE NAF Corner Hump	6 / -0.5	Proctor 97	6.4	138.2	4.9	134.9	128.6	93.1	X				
5	NE NAF Corner Hump	6 / -0.5	Proctor 97	6.4	138.2	4	136.1	130.9	94.7	X				

NOTES:

COMMENTS:

CHECKED BY: EG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 1 day August month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers pit item 4

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
6	STCB #3 to #1	6 / -1.5	BP Proctor 17	5.7	142.6	4.7	136	129.9	91.1		X	8/2 test 1	X	
7	STCB #3 to #1	6 / -1.5	BP Proctor 17	5.7	142.6	4.1	136.3	130.9	91.8		X	8/2 test 2	X	
8	STCB #3 to #1	6 / -1.5	BP Proctor 17	5.7	142.6	5.7	144.3	136.5	95.7	X				
9	STCB #3 to #1	6 / -1.5	BP Proctor 17	5.7	142.6	4.4	138.1	132.3	92.8		X	8/2 test 4		X
10	STCB #3 to #1	6 / -1.5	BP Proctor 17	5.7	142.6	5.3	136.4	129.5	90.8		X	8/2 test 3	X	
11	ST MH#1 to CB#3	6 / -1.5	BP Proctor 14	4.9	139.2	5.2	139	132.1	94.9	X				
12	ST MH#1 to CB#3	6 / -1.5	BP Proctor 14	4.9	139.2	5.3	133.2	126.5	90.9		X	34	X	
13	ST MH#1 to CB#3	6 / -1.5	BP Proctor 14	4.9	139.2	6.4	142.9	134.3	96.5	X				
14	ST MH#1 to CB#3	6 / -1.5	BP Proctor 14	4.9	139.2	6.3	143.9	135.4	97.2	X				
15	ST MH#1 to CB#3	6 / -1.5	BP Proctor 14	4.9	139.2	5.3	143.1	135.9	97.6	X				
16	MH1 & South Spur	6 / -1.5	BP Proctor 14	4.9	139.2	6	140.8	132.8	95.4	X				
17	MH1 & South Spur	6 / -1.5	BP Proctor 14	4.9	139.2	7	130.6	122.1	87.7		X	26	X	
18	MH1 & South Spur	6 / -1.5	BP Proctor 14	4.9	139.2	6	140.2	132.3	95.0	X				
19	MH1 & South Spur	6 / -1.5	BP Proctor 14	4.9	139.2	6.1	138.5	130.5	93.8		X	27	X	
20	MH1 & South Spur	6 / -1.5	BP Proctor 14	4.9	139.2	6.9	136.9	128.1	92.0		X	28	X	
21	ST MH#1 to CB#6	6 / -0.5	BP Proctor 13	5	140.3	5.1	134.7	128.2	91.3		X			
22	ST MH#1 to CB#6	6 / -0.5	BP Proctor 13	5	140.3	4.4	144.8	138.7	98.9	X				
23	ST MH#1 to CB#6	6 / -0.5	BP Proctor 13	5	140.3	4.4	134.1	128.4	91.6		X			
24	ST MH#1 to CB#6	6 / -0.5	BP Proctor 13	5	140.3	6.4	141.4	132.9	94.7		X			
25	ST MH#1 to CB#6	6 / -0.5	BP Proctor 13	5	140.3	4.3	138.4	132.7	94.6		X			
26	MH1 & South Spur	6 / -1.5	BP Proctor 14	4.9	139.2	5.8	140.1	132.4	95.1	X				

27	MH1 & South Spur	6	-1.5	BP Proctor 14	4.9	139.2	5.1	139.1	132.4	95.1	X					
28	MH1 & South Spur	6	-1.5	BP Proctor 14	4.9	139.2	5.6	139.7	132.3	95.0	X					
29	South 3rd NW Square	6	-1.5	BP Proctor 10	5.2	143.5	3.3	141.7	137.2	95.6	X					
30	South 3rd NW Square	6	-1.5	BP Proctor 10	5.2	143.5	4.1	142.8	137.2	95.6	X					
31	South 3rd NW Square	6	-1.5	BP Proctor 10	5.2	143.5	3.5	142.1	137.3	95.7	X					
32	South 3rd NW Square	6	-1.5	BP Proctor 10	5.2	143.5	3.8	138.5	133.4	93.0	X					
33	South 3rd NW Square	6	-1.5	BP Proctor 10	5.2	143.5	3.8	133.9	129.0	89.9	X					
34	ST MH#1 to CB#3	6	-1.5	BP Proctor 14	4.9	139.2	4.8	139.9	133.5	95.9	X					

NOTES:

COMMENTS:

CHECKED BY: EG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF
LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39
DESCRIPTION: Compaction Testing DATE: 2 day August month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers pit item 4

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)
MINIMUM COMPACTION: 95 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.
NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	CB3 to CB1	6 / -0.5	BP Proctor 17	5.7	142.6	3.8	140.9	135.7	95.2	X				
2	CB3 to CB1	6 / -0.5	BP Proctor 17	5.7	142.6	4.6	141.8	135.6	95.1	X				
4	CB3 to CB1	6 / -0.5	BP Proctor 17	5.7	142.6	5.4	142.9	135.6	95.1	X				
3	CB3 to CB1	6 / -0.5	BP Proctor 17	5.7	142.6	5.4	134.2	127.3	89.3		X	7	X	
5	Water line	6 / -1.5	BP Proctor 10	5.2	143.5	5	136.4	129.9	90.5		X	19	X	
6	Water line	6 / -1.5	BP Proctor 10	5.2	143.5	5	133	126.7	88.3		X	20		X
7	CB3 to CB1	6 / -0.5	BP Proctor 10	5.7	142.6	4.4	141.5	135.6	95.1	X				
8	CB3 to MH1	6 / -1.5	BP Proctor 14	4.9	139.2	5.2	137.4	130.6	93.8		X	14	X	
9	CB3 to MH1	6 / -1.5	BP Proctor 14	4.9	139.2	6.6	145.2	136.2	97.9	X				
10	CB3 to MH1	6 / -1.5	BP Proctor 14	4.9	139.2	6.5	143.2	134.5	96.6	X				
11	CB3 to MH1	6 / -1.5	BP Proctor 14	4.9	139.2	6.2	146.3	137.8	99.0	X				
12	CB3 to MH1	6 / -1.5	BP Proctor 14	4.9	139.2	6.5	144.7	135.9	97.6	X				
13	CB3 to MH1	6 / -1.5	BP Proctor 14	4.9	139.2	5.7	141.7	134.1	96.3	X				
14	CB3 to MH1	6 / -1.5	BP Proctor 14	4.9	139.2	4.6	142	135.8	97.5	X				
15	CB3 to MH1	6 / -1.5	BP Proctor 14	4.9	139.2	6.4	145.4	136.7	98.2	X				
16	CB3 to MH1	6 / -1.5	BP Proctor 14	4.9	139.2	4.9	140.9	134.3	96.5	X				
17	CB3 to MH1	6 / -1.5	BP Proctor 14	4.9	139.2	3.8	137.2	132.2	95.0	X				
18	CB3 to MH1	6 / -1.5	BP Proctor 14	4.9	139.2	6.5	142	133.3	95.8	X				
19	Water line	6 / -1.5	BP Proctor 10	5.2	143.5	4.9	143.1	136.4	95.1	X				
20	Water line	6 / -1.5	BP Proctor 10	5.2	143.5	4.3	132.2	126.7	88.3		X			
21	Water line	6 / -1.5	BP Proctor 10	5.2	143.5	4.8	129.3	123.4	86.0		X			
22	Water line	6 / -1.5	BP Proctor 10	5.2	143.5	6.9	134.4	125.7	87.6		X			

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 3 day August month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers pit item 4

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
2	Waterline N to S	6 / -1.5	BP Proctor 10	5.2	143.5	4.1	129.4	124.3	86.6		X	20	X	
3	Waterline N to S	6 / -1.5	BP Proctor 10	5.2	143.5	3.7	131.3	126.6	88.2		X	21	X	
4	Waterline N to S	6 / -1.5	BP Proctor 10	5.2	143.5	4	132	126.9	88.4		X	22	X	
5	Waterline N to S	6 / -1.5	BP Proctor 10	5.2	143.5	5.6	140	132.6	92.4		X	23	X	
9	MH1 to CB6 S to N	6 / -0.5	BP Proctor 13	5	140.3	4.2	142.9	137.1	97.7	X				
10	MH1 to CB6 S to N	6 / -0.5	BP Proctor 13	5	140.3	3.7	141.4	136.4	97.2	X				
11	MH1 to CB6 S to N	6 / -0.5	BP Proctor 13	5	140.3	4.3	141.1	135.3	96.4	X				
12	MH1 to CB6 S to N	6 / -0.5	BP Proctor 13	5	140.3	4.7	141.5	135.1	96.3	X				
13	MH1 to CB6 S to N	6 / -0.5	BP Proctor 13	5	140.3	4.1	140.6	135.1	96.3	X				
14	CB6 to CB5	6 / -0.5	BP Proctor 10	5.2	143.5	4.9	144	137.3	95.7	X				
15	CB6 to CB5	6 / -0.5	BP Proctor 10	5.2	143.5	6.2	142.6	136.5	95.1	X				
16	CB6 to CB5	6 / -0.5	BP Proctor 10	5.2	143.5	4.3	127.8	122.5	85.4		X	19	X	
17	CB6 to CB5	6 / -0.5	BP Proctor 10	5.2	143.5	5.5	148.1	140.4	97.8	X				
18	CB6 to CB5	6 / -0.5	BP Proctor 10	5.2	143.5	4.8	143.1	136.5	95.2	X				
19	CB6 to CB5	6 / -0.5	BP Proctor 10	5.2	143.5	6.1	142.5	136.4	95.1	X				
20	Waterline N to S	6 / -1.5	Proctor 62	5.4	140.4	6.1	142.4	134.2	95.6	X				
21	Waterline N to S	6 / -1.5	Proctor 62	5.4	140.4	5.9	141.3	133.4	95.0	X				
22	Waterline N to S	6 / -1.5	Proctor 62	5.4	140.4	6.8	146.2	136.9	97.5	X				
23	Waterline N to S	6 / -1.5	Proctor 62	5.4	140.4	5.1	140.5	133.7	95.2	X				

NOTES: No test no. 1

COMMENTS: Tests 2-5 were using wrong proctor, switched to correct one.

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 7 day August month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers Pit item 4 OR Lawrenceville

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	MH1 to CB6	6 / -0.5	BP Proctor 13	5	140.3	6.6	143.5	134.6	95.9	X				
2	MH1 to CB6	6 / -0.5	BP Proctor 13	5	140.3	6.4	143.6	135.0	96.2	X				
3	MH1 to CB6	6 / -0.5	BP Proctor 13	5	140.3	6.4	143.9	135.2	96.4	X				
4	MH1 to CB6	6 / -0.5	BP Proctor 13	5	140.3	5.8	142.1	134.3	95.7	X				
5	MH1 to CB6	6 / -0.5	BP Proctor 13	5	140.3	6.1	144.2	135.9	96.9	X				
6	CB6 to CB5	6 / -0.5	BP Proctor 10	5.2	143	6	134.7	127.1	88.9		X	9		X
7	CB4 area	6 / -0.5	L Proctor 62	5.4	140.4	7.2	143.9	134.2	95.6	X				
8	CB4 area	6 / -0.5	L Proctor 62	5.4	140.4	7	137.6	128.6	91.6		X			
9	CB6 to CB5	6 / -0.5	BP Proctor 10	5.2	143	7.7	147.3	136.8	95.6		X			

NOTES:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 17 day August month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville

MATERIAL TYPE: [☑] FILL [ ] SUBGRADE [ ] SUBBASE [ ] CLAY [ ] OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 95 (%) [X] ASTM D 698 [ ] ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	CB5 to CB6	6 / -0.5	BP Proctor 10	5.2	143.5	5.3	144.1	136.8	95.4	X				
2	CB5 to CB6	6 / -0.5	BP Proctor 10	5.2	143.5	5.3	143.9	136.7	95.2	X				
3	CB5 to CB6	6 / -0.5	BP Proctor 10	5.2	143.5	4.9	144.4	137.7	95.9	X				
4	CB5 to CB6	6 / -0.5	BP Proctor 10	5.2	143.5	4.7	144.5	138.0	96.2	X				
5	CB5 to CB6	6 / -0.5	BP Proctor 10	5.2	143.5	5.1	143.3	136.3	95.0	X				
6	CB4 area	6 / -0.5	L Proctor 62	5.4	140.4	4.9	143.3	136.6	97.3	X				
7	Waterline	6 / -0.5	L Proctor 62	5.4	140.4	4.8	141.3	134.8	96.0	X				
8	Waterline	6 / -0.5	L Proctor 62	5.4	140.4	3.9	140.6	135.3	96.4	X				
9	Waterline	6 / -0.5	L Proctor 62	5.4	140.4	4.8	141.3	134.8	96.0	X				
10	Waterline	6 / -0.5	L Proctor 62	5.4	140.4	4.3	139.1	133.4	95.0	X				
11	Waterline	6 / -0.5	L Proctor 62	5.4	140.4	4.3	143.8	137.9	98.2	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 18 day August month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers Pit Item 4

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Area F	6 / -1.5	Proctor 15	5.7	141.5	6.8	144.4	135.2	95.6	X				
2	Area F	6 / -1.5	Proctor 15	5.7	141.5	6.6	147.4	138.3	97.7	X				
3	Area F	6 / -1.5	Proctor 15	5.7	141.5	6.7	145.8	136.6	96.6	X				
4	Area F	6 / -1.5	Proctor 15	5.7	141.5	7.1	148.7	138.8	98.1	X				
5	Area F	6 / -1.5	Proctor 15	5.7	141.5	5.8	137.9	130.3	92.1	X				
6	Area F Stepdown	6 / -5.0	Proctor 15	5.7	141.5	7.1	145.6	135.9	96.1	X				
7	Area F Stepdown	6 / -5.0	Proctor 15	5.7	141.5	6.8	142.5	133.4	94.3	X				
8	Area F Stepdown	6 / -5.0	Proctor 15	5.7	141.5	7.1	142.3	132.9	93.9	X				
9	Area F Stepdown	6 / -5.0	Proctor 15	5.7	141.5	6.1	141.2	133.1	94.1	X				
10	Area F Stepdown	6 / -5.0	Proctor 15	5.7	141.5	5.8	133.6	126.3	89.2	X				
11	Area F Stepdown	6 / -4.0	Proctor 15	5.7	141.5	7.3	143.2	133.5	94.3	X				
12	Area F Stepdown	6 / -4.0	Proctor 15	5.7	141.5	6.9	145.4	136.0	96.1	X				
13	Area F Stepdown	6 / -4.0	Proctor 15	5.7	141.5	7	145.7	136.2	96.2	X				
14	Area F Stepdown	6 / -4.0	Proctor 15	5.7	141.5	7.2	144.2	134.5	95.1	X				
15	Area F Stepdown	6 / -4.0	Proctor 15	5.7	141.5	6.7	147.3	138.1	97.6	X				
16	Area F Stepdown	6 / -3.5	Proctor 15	5.7	141.5	7.4	147.3	137.2	96.9	X				
17	Area F Stepdown	6 / -3.5	Proctor 15	5.7	141.5	7.6	145.6	135.3	95.6	X				
18	Area F Stepdown	6 / -3.5	Proctor 15	5.7	141.5	6.6	147.1	138.0	97.5	X				
19	Area F Stepdown	6 / -3.5	Proctor 15	5.7	141.5	7	147	137.4	97.1	X				
20	Area F Stepdown	6 / -3.5	Proctor 15	5.7	141.5	7.1	148.3	138.5	97.9	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 19 day August month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
6	Area F	6 / -4.0	Proctor 93	5.8	138.7	8.2	144.8	133.8	96.5	X		22	X	
7	Stepdown E of Light Pole	6 / -3.0	Proctor 93	5.8	138.7	6.2	135.5	127.6	92.0	X				
8	Stepdown E of Light Pole	6 / -3.0	Proctor 93	5.8	138.7	7.5	143.6	133.6	96.3	X				
9	Stepdown E of Light Pole	6 / -3.0	Proctor 93	5.8	138.7	5.7	145.8	137.9	99.5	X				
10	Stepdown E of Light Pole	6 / -3.0	Proctor 93	5.8	138.7	6.3	143.2	134.7	97.1	X				
11	Stepdown E of Light Pole	6 / -3.0	Proctor 93	5.8	138.7	5.6	143.5	135.9	98.0	X				
12	Stepdown E of Light Pole	6 / -2.0	Proctor 93	5.8	138.7	7.4	138.4	128.9	92.9	X				
13	Stepdown E of Light Pole	6 / -2.0	Proctor 93	5.8	138.7	7.6	140.4	130.5	94.1	X				
14	Stepdown E of Light Pole	6 / -2.0	Proctor 93	5.8	138.7	7	140.4	131.2	94.6	X				
15	Stepdown E of Light Pole	6 / -2.0	Proctor 93	5.8	138.7	7.1	135.3	126.3	91.1	X				
16	Stepdown E of Light Pole	6 / -2.0	Proctor 93	5.8	138.7	7.5	145.6	135.4	97.7	X				
17	Stepdown E of Light Pole	6 / -1.0	Proctor 93	5.8	138.7	6.1	131.6	124.0	89.4	X				
18	Stepdown E of Light Pole	6 / -1.0	Proctor 93	5.8	138.7	6	126.8	119.6	86.2	X				
19	Stepdown E of Light Pole	6 / -1.0	Proctor 93	5.8	138.7	6.6	137.4	128.9	92.9	X				
20	Stepdown E of Light Pole	6 / -1.0	Proctor 93	5.8	138.7	5.9	130.4	123.1	88.8	X				
21	Stepdown E of Light Pole	6 / -1.0	Proctor 93	5.8	138.7	6.4	135.2	127.1	91.6	X				
22	Light Pole ISMP Exc	6 / -4.0	Proctor 93	5.8	138.7	5.7	128.6	121.7	87.7	X				
23	Light Pole ISMP Exc	6 / -4.0	Proctor 93	5.8	138.7	6.3	135.3	127.3	91.8	X				
24	Light Pole ISMP Exc	6 / -4.0	Proctor 93	5.8	138.7	6.2	135	127.1	91.7	X				
25	Light Pole ISMP Exc	6 / -4.0	Proctor 93	5.8	138.7	5.9	132.3	124.9	90.1	X				
26	Light Pole ISMP Exc	6 / -4.0	Proctor 93	5.8	138.7	5.8	134.1	126.7	91.4	X				
27	Light Pole ISMP Exc	6 / -3.0	Proctor 93	5.8	138.7	6	133.2	125.7	90.6	X				
28	Light Pole ISMP Exc	6 / -3.0	Proctor 93	5.8	138.7	6.5	128.8	120.9	87.2	X				
29	Light Pole ISMP Exc	6 / -3.0	Proctor 93	5.8	138.7	6.2	138.8	130.7	94.2	X				
30	Light Pole ISMP Exc	6 / -3.0	Proctor 93	5.8	138.7	6.7	133.4	125.0	90.1	X				
31	Light Pole ISMP Exc	6 / -3.0	Proctor 93	5.8	138.7	5.9	129.2	122.0	88.0	X				
32	Light Pole ISMP Exc	6 / -2.0	Proctor 96	7	138	6.6	127.8	119.9	86.9	X				
33	Light Pole ISMP Exc	6 / -2.0	Proctor 96	7	138	5.9	137	129.4	93.7	X				
34	Light Pole ISMP Exc	6 / -2.0	Proctor 96	7	138	5.7	130.6	123.6	89.5	X				
35	Light Pole ISMP Exc	6 / -2.0	Proctor 96	7	138	6.5	136.2	127.9	92.7	X				
36	Light Pole ISMP Exc	6 / -2.0	Proctor 96	7	138	5.7	126.5	119.7	86.7	X				
37	Light Pole ISMP Exc	6 / -1.0	Proctor 96	7	138	5.4	131.3	124.6	90.3	X				
38	Light Pole ISMP Exc	6 / -1.0	Proctor 96	7	138	5.2	127.2	120.9	87.6	X				
39	Light Pole ISMP Exc	6 / -1.0	Proctor 96	7	138	4.9	134.8	128.5	93.1	X				
40	Light Pole ISMP Exc	6 / -1.0	Proctor 96	7	138	6.4	126.8	119.2	86.4	X				
41	Light Pole ISMP Exc	6 / -1.0	Proctor 96	7	138	5.2	126.7	120.4	87.3	X				
42	Total Excavation	6 / -0.5	Proctor 96	7	138	5	133.4	127.0	92.1	X				
43	Total Excavation	6 / -0.5	Proctor 96	7	138	6.6	144.3	135.4	98.1	X				
44	Total Excavation	6 / -0.5	Proctor 96	7	138	5.4	126.9	120.4	87.2	X				
45	Total Excavation	6 / -0.5	Proctor 96	7	138	5.7	133.2	126.0	91.3	X				
46	Total Excavation	6 / -0.5	Proctor 96	7	138	5.2	136.3	129.6	93.9	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 22 day August month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers Pit Item 4

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	N. east of maintenance shed	6 / -0.5	Proctor 10	5.2	143.5	4.3	135.1	129.5	90.3	X				
2	N. east of maintenance shed	6 / -0.5	Proctor 10	5.2	143.5	3.7	141.4	136.4	95.0	X				
3	N. east of maintenance shed	6 / -0.5	Proctor 10	5.2	143.5	3.4	144.2	139.5	97.2	X				
4	N. east of maintenance shed	6 / -0.5	Proctor 10	5.2	143.5	3.8	142.4	137.2	95.6	X				
5	N. east of maintenance shed	6 / -0.5	Proctor 10	5.2	143.5	4.7	141.9	135.5	94.4	X				
6	S. softball, west side	6 / -0.5	Proctor 18	5.2	143.5	4.5	134.2	128.4	92.0	X				
7	S. softball, west side	6 / -0.5	Proctor 18	5.2	143.5	3.8	143.4	138.2	99.0	X				
8	S. softball, west side	6 / -0.5	Proctor 18	5.2	143.5	4	128.5	123.6	88.5	X				
9	S. softball, west side	6 / -0.5	Proctor 18	5.2	143.5	3.6	139	134.2	96.2	X				
10	S. softball, west side	6 / -0.5	Proctor 18	5.2	143.5	2.9	141.7	137.7	98.7	X				
11	SE of softball field	6 / -0.5	Proctor 18	5.2	143.5	5.4	132.6	125.8	90.2	X				
12	SE of softball field	6 / -0.5	Proctor 18	5.2	143.5	5	139.9	133.2	95.5	X				
13	SE of softball field	6 / -0.5	Proctor 18	5.2	143.5	5.6	138.4	131.1	94.0	X				
14	SE of softball field	6 / -0.5	Proctor 18	5.2	143.5	3.7	135.2	130.4	93.5	X				
15	SE of softball field	6 / -0.5	Proctor 18	5.2	143.5	3.5	130.4	126.0	90.3	X				
16	East of softball field	6 / -0.5	Proctor 18	5.2	143.5	4.1	144.9	139.2	99.8	X				
17	East of softball field	6 / -0.5	Proctor 18	5.2	143.5	3.1	139.9	135.7	97.2	X				
18	East of softball field	6 / -0.5	Proctor 18	5.2	143.5	4.1	140.3	134.8	96.5	X				
19	East of softball field	6 / -0.5	Proctor 18	5.2	143.5	4.6	144.6	138.2	99.1	X				
20	East of softball field	6 / -0.5	Proctor 18	5.2	143.5	4	139.8	134.4	96.3	X				

NOTES:

COMMENTS:

CHECKED BY: HRG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 8 day Sept. month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PennDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Haul road/decon pad N. 2/3	6 / -1.5	Proctor 97	6.4	138.2	7.5	142.5	132.6	95.9	X				
2	Haul road/decon pad N. 2/3	6 / -1.5	Proctor 97	6.4	138.2	5.9	143.3	135.3	97.9	X				
3	Haul road/decon pad N. 2/3	6 / -1.5	Proctor 97	6.4	138.2	7.1	143.4	133.9	96.9	X				
4	Haul road/decon pad N. 2/3	6 / -1.5	Proctor 97	6.4	138.2	8.4	141.7	130.7	94.6	X				
5	Haul road/decon pad N. 2/3	6 / -1.5	Proctor 97	6.4	138.2	7.1	141.7	132.3	95.7	X				
6	Haul road/decon pad N. 2/3	6 / -0.5	Proctor 97	6.4	138.2	7.8	143.5	133.1	96.3	X				
7	Haul road/decon pad N. 2/3	6 / -0.5	Proctor 97	6.4	138.2	7	141.2	132.0	95.5	X				
8	Haul road/decon pad N. 2/3	6 / -0.5	Proctor 97	6.4	138.2	7	139.7	130.6	94.5	X				
9	Haul road/decon pad N. 2/3	6 / -0.5	Proctor 97	6.4	138.2	6.8	143.1	134.0	97.0	X				
10	Haul road/decon pad N. 2/3	6 / -0.5	Proctor 97	6.4	138.2	6.1	138.3	130.3	94.3	X				
11	Haul road/decon pad S. third	6 / -1.5	Proctor 98	5.9	139.7	7	146.5	136.9	98.0	X				
12	Haul road/decon pad S. third	6 / -1.5	Proctor 98	5.9	139.7	6.7	131	122.8	87.9	X				
13	Haul road/decon pad S. third	6 / -1.5	Proctor 98	5.9	139.7	7.2	142.1	132.6	94.9	X				
14	Haul road/decon pad S. third	6 / -1.5	Proctor 98	5.9	139.7	7.8	145.8	135.3	96.8	X				
15	Haul road/decon pad S. third	6 / -1.5	Proctor 98	5.9	139.7	7.7	141.9	131.8	94.3	X				

NOTES:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 14 day Sept. month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PennDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Haul road/decon pad S. third	6 / -1.0	Proctor 98	5.9	139.7	6	146.5	138.2	98.9	X				
2	Haul road/decon pad S. third	6 / -1.0	Proctor 98	5.9	139.7	5.8	139.4	131.8	94.3	X				
3	Haul road/decon pad S. third	6 / -1.0	Proctor 98	5.9	139.7	6.2	141.6	133.3	95.4	X				
4	Haul road/decon pad S. third	6 / -1.0	Proctor 98	5.9	139.7	5.6	144.5	136.8	98.0	X				
5	Haul road/decon pad S. third	6 / -1.0	Proctor 98	5.9	139.7	4.7	136.4	130.3	93.3	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 14 day Sept. month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers pit item 4

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
6	Baseball field W. half	6 / -0.5	BP Proctor 10	5.2	143.5	3.5	141.9	137.1	95.5	X				
7	Baseball field W. half	6 / -0.5	BP Proctor 10	5.2	143.5	3.5	143.5	138.6	96.6	X				
8	Baseball field W. half	6 / -0.5	BP Proctor 10	5.2	143.5	3.2	142.9	138.5	96.5	X				
9	Baseball field W. half	6 / -0.5	BP Proctor 10	5.2	143.5	3.7	143.5	138.4	96.4	X				
10	Baseball field W. half	6 / -0.5	BP Proctor 10	5.2	143.5	4.2	148.7	142.7	99.4	X				
11	Baseball field W. half	6 / -0.5	BP Proctor 11	3.8	142	3.5	144.2	139.3	98.1	X				
12	Baseball field W. half	6 / -0.5	BP Proctor 11	3.8	142	3.1	139.8	135.6	95.5	X				
13	Baseball field W. half	6 / -0.5	BP Proctor 11	3.8	142	3.6	140.5	135.6	95.5	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 15 day Sept. month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PennDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	E. Prop. Road plate	6 / -1.5	Proctor 98	5.9	139.7	6.5	132.9	124.8	89.3	X				
2	E. Prop. Road plate	6 / -1.5	Proctor 98	5.9	139.7	6.1	133.6	125.9	90.1	X				
3	E. Prop. Road plate	6 / -1.5	Proctor 98	5.9	139.7	6.2	138.9	130.8	93.6	X				
4	E. Prop. Central section	6 / -0.5	Proctor 98	5.9	139.7	5.7	144.1	136.3	97.6	X				
5	E. Prop. Central section	6 / -0.5	Proctor 98	5.9	139.7	6.2	142.8	134.5	96.3	X				
6	E. Prop. Central section	6 / -0.5	Proctor 98	5.9	139.7	5.5	140.1	132.8	95.1	X				
7	E. Prop. Central section	6 / -0.5	Proctor 98	5.9	139.7	5.7	142.6	134.9	96.6	X				
8	E. Prop. Central section	6 / -0.5	Proctor 98	5.9	139.7	5.3	136.5	129.6	92.8	X				
9	E. Prop. South section	6 / -1.5	Proctor 98	5.9	139.7	4.7	135.2	129.1	92.4	X				
10	E. Prop. South section	6 / -1.5	Proctor 98	5.9	139.7	5	138.4	131.8	94.4	X				
11	E. Prop. South section	6 / -1.5	Proctor 98	5.9	139.7	5.7	135.6	128.3	91.8	X				
12	E. Prop. South section	6 / -1.5	Proctor 98	5.9	139.7	5	133.5	127.1	91.0	X				
13	E. Prop. South section	6 / -1.5	Proctor 98	5.9	139.7	6	137.6	129.8	92.9	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 15 day Sept. month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers pit item 4

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
14	Baseball field E. half	6 / -0.5	BP Proctor 13	5	140.3	3.1	140.3	136.1	97.0	X				
15	Baseball field E. half	6 / -0.5	BP Proctor 13	5	140.3	3.8	139.6	134.5	95.9	X				
16	Baseball field E. half	6 / -0.5	BP Proctor 13	5	140.3	3.8	135.9	130.9	93.3	X				
17	Baseball field E. half	6 / -0.5	BP Proctor 13	5	140.3	3.8	140.9	135.7	96.8	X				
18	Baseball field E. half	6 / -0.5	BP Proctor 13	5	140.3	4	143.3	137.8	98.2	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 18 day Sept. month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PennDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	E.Prop. S. section	6 / -0.5	Proctor 99	6.5	137.5	6.4	137.7	129.4	94.1	X				
2	E.Prop. S. section	6 / -0.5	Proctor 99	6.5	137.5	6.4	135.5	127.3	92.6	X				
3	E.Prop. S. section	6 / -0.5	Proctor 99	6.5	137.5	5.4	134.8	127.9	93.0	X				
4	E.Prop. S. section	6 / -0.5	Proctor 99	6.5	137.5	5.9	139.8	132.0	96.0	X				
5	E.Prop. S. section	6 / -0.5	Proctor 99	6.5	137.5	6.4	144.3	135.6	98.6	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 21 day Sept. month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PennDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	HL scrape area	6 / -1.5	Proctor 99	6.5	137.5	6.1	143.1	134.9	98.1	X				
2	HL scrape area	6 / -1.5	Proctor 99	6.5	137.5	5.3	142.5	135.3	98.4	X				
3	HL scrape area	6 / -1.5	Proctor 99	6.5	137.5	5.5	146.7	139.1	101.1	X				
4	HL scrape area	6 / -1.5	Proctor 99	6.5	137.5	5.7	136.2	128.9	93.7	X				
5	HL scrape area	6 / -1.5	Proctor 99	6.5	137.5	5.4	143.4	136.1	98.9	X				
6	HL scrape area	6 / -0.5	Proctor 99	6.5	137.5	5.7	142.6	134.9	98.1	X				
7	HL scrape area	6 / -0.5	Proctor 99	6.5	137.5	5.7	146.2	138.3	100.6	X				
8	HL scrape area	6 / -0.5	Proctor 99	6.5	137.5	6.1	144.4	136.1	99.0	X				
9	HL scrape area	6 / -0.5	Proctor 99	6.5	137.5	6.1	133.2	125.5	91.3	X				
10	HL scrape area	6 / -0.5	Proctor 99	6.5	137.5	6.5	142	133.3	97.0	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 2 day October month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PennDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	E. Prop. Line North section	6 / -0.5	Proctor 100	6.5	135.6	4.5	134.3	128.5	94.8	X				
2	E. Prop. Line North section	6 / -0.5	Proctor 100	6.5	135.6	5.1	136.8	130.2	96.0	X				
3	E. Prop. Line North section	6 / -0.5	Proctor 100	6.5	135.6	5.1	133.9	127.4	94.0	X				
4	E. Prop. Line North section	6 / -0.5	Proctor 100	6.5	135.6	5.7	143.4	135.7	100.0	X				
5	E. Prop. Line North section	6 / -0.5	Proctor 100	6.5	135.6	5.5	138.1	130.9	96.5	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 4 day October month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers pit item 4

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Baseball E. light pole elec. Trenc	6 / -0.5	BP Proctor 13	5	140.3	3.1	132.3	128.3	91.5	X				
2	Baseball E. light pole elec. Trenc	6 / -0.5	BP Proctor 13	5	140.3	3.6	128	123.6	88.1	X				
3	Baseball E. light pole elec. Trenc	6 / -0.5	BP Proctor 13	5	140.3	3.8	131.8	127.0	90.5	X				
4	Baseball E. light pole elec. Trenc	6 / -0.5	BP Proctor 13	5	140.3	4.4	140.5	134.6	95.9	X				
5	Baseball E. light pole elec. Trenc	6 / -0.5	BP Proctor 13	5	140.3	3.3	137.6	133.2	94.9	X				
6	Softball field fine grade	6 / -0.5	BP Proctor 18	6.2	139.5	4.2	136.2	130.7	93.7	X				
7	Softball field fine grade	6 / -0.5	BP Proctor 18	6.2	139.5	3.6	136.4	131.7	94.4	X				
8	Softball field fine grade	6 / -0.5	BP Proctor 18	6.2	139.5	2.7	141.3	137.6	98.6	X				
9	Softball field fine grade	6 / -0.5	BP Proctor 18	6.2	139.5	3.4	138.5	133.9	96.0	X				
10	Softball field fine grade	6 / -0.5	BP Proctor 18	6.2	139.5	3.3	141.3	136.8	98.1	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 25 day October month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PENNDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	A8PH4 Area H E. 1/3	6 / -0.5	Proctor 94	5.5	139.9	5.7	131.9	124.8	89.2	X				
2	A8PH4 Area H E. 1/3	6 / -0.5	Proctor 94	5.5	139.9	4.9	134.9	128.6	91.9	X				
3	A8PH4 Area H E. 1/3	6 / -0.5	Proctor 94	5.5	139.9	5.4	137.1	130.1	93.0	X				
4	A8PH4 Area H E. 1/3	6 / -0.5	Proctor 94	5.5	139.9	5.3	139.2	132.2	94.5	X				
5	A8PH4 Area H E. 1/3	6 / -0.5	Proctor 94	5.5	139.9	6.1	136.4	128.6	91.9	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 27 day October month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PENNDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	A8PH4 Area H W. 2/3	6 / -0.5	Proctor 94	5.5	139.9	4.9	133	126.8	90.6	X				
2	A8PH4 Area H W. 2/3	6 / -0.5	Proctor 94	5.5	139.9	4.9	130.2	124.1	88.7	X				
3	A8PH4 Area H W. 2/3	6 / -0.5	Proctor 94	5.5	139.9	4.8	129.4	123.5	88.3	X				
4	A8PH4 Area H W. 2/3	6 / -0.5	Proctor 94	5.5	139.9	4.9	129.5	123.5	88.2	X				
5	A8PH4 Area H W. 2/3	6 / -0.5	Proctor 94	5.5	139.9	4.3	131.1	125.7	89.8	X				

NOTES:

COMMENTS:

CHECKED BY: HRG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 03 day November month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PennDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	A8PH4 Area J	6 / -1.5	Proctor 89	5.8	139.3	5	128.2	122.1	87.6	X				
2	A8PH4 Area J	6 / -1.5	Proctor 89	5.8	139.3	5.5	136.9	129.8	93.2	X				
3	A8PH4 Area J	6 / -1.5	Proctor 89	5.8	139.3	5.5	139.4	132.1	94.9	X				
4	A8PH4 Area J	6 / -1.5	Proctor 89	5.8	139.3	4.9	135.7	129.4	92.9	X				
5	A8PH4 Area J	6 / -1.5	Proctor 89	5.8	139.3	5.6	135.9	128.7	92.4	X				
6	A8PH4 Area I S. 1/3	6 / -0.5	Proctor 89	5.8	139.3	4.6	134.1	128.2	92.0	X				
7	A8PH4 Area I S. 1/3	6 / -0.5	Proctor 89	5.8	139.3	5.7	133	125.8	90.3	X				
8	A8PH4 Area I S. 1/3	6 / -0.5	Proctor 89	5.8	139.3	5.5	137.6	130.4	93.6	X				
9	A8PH4 Area I S. 1/3	6 / -0.5	Proctor 89	5.8	139.3	4.7	128.5	122.7	88.1	X				
10	A8PH4 Area I S. 1/3	6 / -0.5	Proctor 89	5.8	139.3	5.6	141.1	133.6	95.9	X				
11	A8PH4 Area J	6 / -1.5	Proctor 89	5.8	139.3	6.5	134.1	125.9	90.4	X				
12	A8PH4 Area J	6 / -1.5	Proctor 89	5.8	139.3	5.9	139	131.3	94.2	X				
13	A8PH4 Area J	6 / -1.5	Proctor 89	5.8	139.3	5.6	134.9	127.7	91.7	X				
14	A8PH4 Area J	6 / -1.5	Proctor 89	5.8	139.3	6.3	135.9	127.8	91.8	X				
15	A8PH4 Area J	6 / -1.5	Proctor 89	5.8	139.3	6.7	137.1	128.5	92.2	X				

NOTES:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 09 day November month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers Pit Item 4

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	A8PH4 Area I N. 2/3	6 / -0.5	BP Proctor 17	5.7	142.6	5.8	132.4	125.1	87.8	X				
2	A8PH4 Area I N. 2/3	6 / -0.5	BP Proctor 17	5.7	142.6	5.4	128.4	121.8	85.4	X				
3	A8PH4 Area I N. 2/3	6 / -0.5	BP Proctor 17	5.7	142.6	6	138.2	130.4	91.4	X				
4	A8PH4 Area I N. 2/3	6 / -0.5	BP Proctor 17	5.7	142.6	4.2	129.3	124.1	87.0	X				
5	A8PH4 Area I N. 2/3	6 / -0.5	BP Proctor 17	5.7	142.6	4.9	137.5	131.1	91.9	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 09 day November month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PennDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
6	E. of maintenance shed	6 / -0.5	Proctor 62	5.4	140.4	4.5	142.7	136.6	97.3	X				
7	E. of maintenance shed	6 / -0.5	Proctor 62	5.4	140.4	4.8	141.9	135.4	96.4	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 04 day December month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers Pit Item 4

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	A8PH3A1 Lead	6 / -1.5	BP Proctor 17	5.7	142.6	6.6	141.8	133.0	93.3	X				
2	A8PH3A1 Lead	6 / -1.5	BP Proctor 17	5.7	142.6	7.1	137.3	128.2	89.9	X				
3	A8PH3A1 Lead	6 / -1.5	BP Proctor 17	5.7	142.6	7	141.6	132.3	92.8	X				
4	A8PH3A1 Lead	6 / -1.5	BP Proctor 17	5.7	142.6	7.5	142.2	132.3	92.8	X				
5	A8PH3A1 Lead	6 / -1.5	BP Proctor 17	5.7	142.6	7.1	138.6	129.4	90.8	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 05 day December month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Brewers Pit Item 4

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	A8PH3A1 Lead	6 / -0.5	BP Proctor 17	5.7	142.6	6.9	139.1	130.1	91.2	X				
2	A8PH3A1 Lead	6 / -0.5	BP Proctor 17	5.7	142.6	6.1	141.4	133.3	93.5	X				
3	A8PH3A1 Lead	6 / -0.5	BP Proctor 17	5.7	142.6	5.6	135.6	128.4	90.0	X				
4	A8PH3A1 Lead	6 / -0.5	BP Proctor 17	5.7	142.6	5.3	134.3	127.5	89.4	X				
5	A8PH3A1 Lead	6 / -0.5	BP Proctor 17	5.7	142.6	5.1	134.8	128.3	89.9	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 15 day December month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PennDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	A8PH5 (E/W)	6 / -1.5	Proctor 100	6.5	135.6	5.8	137.5	130.0	95.8	X				
2	A8PH5 (E/W)	6 / -1.5	Proctor 100	6.5	135.6	6.2	139.5	131.4	96.9	X				
3	A8PH5 (E/W)	6 / -1.5	Proctor 100	6.5	135.6	6.7	145.8	136.6	100.8	X				
4	A8PH5 (E/W)	6 / -1.5	Proctor 100	6.5	135.6	7.5	142.1	132.2	97.5	X				
5	A8PH5 (N/S)	6 / -1.5	Proctor 100	6.5	135.6	6	141.3	133.3	98.3	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 20 day December month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PennDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	A8PH5 SW corner	6 / -1.5	Proctor 100	6.5	135.6	7.3	145.9	136.0	100.3	X				
2	A8PH5 SW corner	6 / -1.5	Proctor 100	6.5	135.6	7.7	141.9	131.8	97.2	X				
3	A8PH5 SW corner	6 / -1.5	Proctor 100	6.5	135.6	8.4	137.4	126.8	93.5	X				
4	A8PH5 SW corner	6 / -1.5	Proctor 100	6.5	135.6	6.8	140	131.1	96.7	X				
5	A8PH5 SW corner	6 / -1.5	Proctor 100	6.5	135.6	7.5	144.7	134.6	99.3	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 30 day December month 2023 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PennDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	A8PH3A1 Mercury	6 / -1.5	Proctor 101	5.9	138.7	7.8	139.4	129.3	93.2	X				
2	A8PH3A1 Mercury	6 / -1.5	Proctor 101	5.9	138.7	7.4	134.8	125.5	90.5	X				
3	A8PH3A1 Mercury	6 / -1.5	Proctor 101	5.9	138.7	7.6	135.3	125.7	90.7	X				
4	A8PH3A1 Mercury	6 / -1.5	Proctor 101	5.9	138.7	7.6	139.4	129.6	93.4	X				
5	A8PH3A1 Mercury	6 / -1.5	Proctor 101	5.9	138.7	7.2	140.4	131.0	94.4	X				
6	A8PH5	6 / -0.5	Proctor 100	6.5	135.6	6.7	147.4	138.1	101.9	X				
7	A8PH5	6 / -0.5	Proctor 100	6.5	135.6	7.4	144.2	134.3	99.0	X				
8	A8PH5	6 / -0.5	Proctor 100	6.5	135.6	7	141.5	132.2	97.5	X				
9	A8PH5	6 / -0.5	Proctor 100	6.5	135.6	7	144.9	135.4	99.9	X				
10	A8PH5	6 / -0.5	Proctor 100	6.5	135.6	7.7	138.8	128.9	95.0	X				
11	A8PH3A1 Mercury	6 / -0.5	Proctor 101	5.9	138.7	6.6	134.8	126.5	91.2	X				
12	A8PH3A1 Mercury	6 / -0.5	Proctor 101	5.9	138.7	7.2	142.4	132.8	95.8	X				
13	A8PH3A1 Mercury	6 / -0.5	Proctor 101	5.9	138.7	7.4	141.7	131.9	95.1	X				
14	A8PH3A1 Mercury	6 / -0.5	Proctor 101	5.9	138.7	7.5	132.7	123.4	89.0	X				
15	A8PH3A1 Mercury	6 / -0.5	Proctor 101	5.9	138.7	7.7	139.1	129.2	93.1	X				

NOTES:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 22 day January month 2024 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PennDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	A8PH6	6 / -1.5	Proctor 101	5.9	138.7	6.3	135.5	127.5	91.9	X				
2	A8PH6	6 / -1.5	Proctor 101	5.9	138.7	7.9	135.6	125.7	90.6	X				
3	A8PH6	6 / -1.5	Proctor 101	5.9	138.7	6.9	138.6	129.7	93.5	X				
4	A8PH6	6 / -1.5	Proctor 101	5.9	138.7	7.8	140.3	130.1	93.8	X				
5	A8PH6	6 / -1.5	Proctor 101	5.9	138.7	8.6	137.6	126.7	91.4		X	1/24/24 #1	X	

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 24 day January month 2024 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PennDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	A8PH6	6 -1.5	Proctor 101	5.9	138.7	7.8	130.3	120.9	87.1	X				

NOTES:

COMMENTS: Retest from 1/22/24 failure

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 29 day January month 2024 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PennDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	A8PH6	6 / -0.5	Proctor 102	6.8	138.1	7.9	139.1	128.9	93.3	X				
2	A8PH6	6 / -0.5	Proctor 102	6.8	138.1	8.5	139	128.1	92.8	X				
3	A8PH6	6 / -0.5	Proctor 102	6.8	138.1	8.6	131.3	120.9	87.5	X				
4	A8PH6	6 / -0.5	Proctor 102	6.8	138.1	8.5	135.2	124.6	90.2	X				
5	A8PH6	6 / -0.5	Proctor 102	6.8	138.1	8.8	131.6	121.0	87.6	X				

NOTES:

COMMENTS:

CHECKED BY: ZRM

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 01 day April month 2024 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PennDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	A8PH7 - SCV15-1	6 / -1.0	Proctor 101	6.8	138.1	7.4	137	127.6	92.4	X				
2	A8PH7 - SCV15-2	6 / -1.0	Proctor 101	6.8	138.1	6.7	135.8	127.3	92.2	X				
3	A8PH7 - SCV15-3	6 / -1.0	Proctor 101	6.8	138.1	6.6	133.8	125.5	90.9	X				
4	A8PH7 - SCV15-4	6 / -1.0	Proctor 101	6.8	138.1	7.6	134.5	125.1	90.6	X				
5	A8PH7 - SCV15-5	6 / -1.0	Proctor 101	6.8	138.1	6.8	127.2	119.1	86.3	X				
6	A8PH7 - SCV15-6	6 / -0.5	Proctor 101	6.8	138.1	6.5	125.1	117.5	85.1	X				
7	A8PH7 - SCV15-7	6 / -0.5	Proctor 101	6.8	138.1	7	126.1	117.8	85.3	X				
8	A8PH7 - SCV15-8	6 / -0.5	Proctor 101	6.8	138.1	6.31	130.9	123.4	89.4	X				
9	A8PH7 - SCV15-9	6 / -0.5	Proctor 101	6.8	138.1	7.1	134.1	125.2	90.7	X				
10	A8PH7 - SCV15-10	6 / -0.5	Proctor 101	6.8	138.1	6.8	137.6	119.4	86.5	X				

NOTES:

COMMENTS:

CHECKED BY: HRG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 15 day April month 2024 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PennDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	A8PH7 - SCV25A-1	6 / -1.0	Proctor 102	6.8	138.1	7.2	134.4	125.4	90.8	X				
2	A8PH7 - SCV25A-2	6 / -1.0	Proctor 102	6.8	138.1	6.8	130	121.7	88.1	X				
3	A8PH7 - SCV25A-3	6 / -1.0	Proctor 102	6.8	138.1	6.3	134.9	126.9	91.9	X				
4	A8PH7 - SCV25A-4	6 / -1.0	Proctor 102	6.8	138.1	6.4	134.9	126.8	91.8	X				
5	A8PH7 - SCV25A-5	6 / -1.0	Proctor 102	6.8	138.1	6.9	130.5	122.1	86.3	X				
6	A8PH7 - SCV9-1	6 / -1.0	Proctor 102	6.8	138.1	7.2	132.5	123.6	89.5	X				
7	A8PH7 - SCV9-2	6 / -1.0	Proctor 102	6.8	138.1	7.1	128	119.5	86.5	X				
8	A8PH7 - SCV9-3	6 / -1.0	Proctor 102	6.8	138.1	7	132.2	123.6	89.5	X				
9	A8PH7 - SCV9-4	6 / -1.0	Proctor 102	6.8	138.1	6.6	134.5	126.2	91.4	X				
10	A8PH7 - SCV9-5	6 / -1.0	Proctor 102	6.8	138.1	7	132	123.4	89.4	X				
11	A8PH7 - 1	6 / -1.0	Proctor 102	6.8	138.1	6.3	125.7	118.3	85.7	X				
12	A8PH7 - 2	6 / -1.0	Proctor 102	6.8	138.1	7	138	129.0	93.4	X				
13	A8PH7 - 3	6 / -1.0	Proctor 102	6.8	138.1	7	131.2	122.7	88.8	X				
14	A8PH7 - 4	6 / -1.0	Proctor 102	6.8	138.1	5.4	127.6	121.0	87.6	X				
15	A8PH7 - 5	6 / -1.0	Proctor 102	6.8	138.1	6.9	127	118.8	86.0	X				

NOTES:

COMMENTS:

CHECKED BY: HRG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 16 day April month 2024 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PennDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	A8PH7 - SCV25A-6	6 / -0.5	Proctor 102	6.8	138.1	5.9	138.9	131.1	94.9	X				
2	A8PH7 - SCV25A-2	6 / -0.5	Proctor 102	6.8	138.1	6.5	138.7	130.1	94.2	X				
3	A8PH7 - SCV25A-3	6 / -0.5	Proctor 102	6.8	138.1	5.3	140.4	133.4	96.6	X				
4	A8PH7 - SCV25A-4	6 / -0.5	Proctor 102	6.8	138.1	5.3	140	133.0	96.3	X				
5	A8PH7 - SCV25A-5	6 / -0.5	Proctor 102	6.8	138.1	5.9	136.4	130.7	94.6	X				
6	A8PH7 - SCV9-6	6 / -0.5	Proctor 102	6.8	138.1	5.2	128.5	122.1	88.4	X				
7	A8PH7 - SCV9-7	6 / -0.5	Proctor 102	6.8	138.1	6.3	131.6	123.8	89.7	X				
8	A8PH7 - SCV9-8	6 / -0.5	Proctor 102	6.8	138.1	5.5	125.8	119.2	86.3	X				
9	A8PH7 - SCV9-9	6 / -0.5	Proctor 102	6.8	138.1	5.6	132	125.0	90.5	X				
10	A8PH7 - SCV9-10	6 / -0.5	Proctor 102	6.8	138.1	5.8	133.4	126.1	91.3	X				
11	A8PH7 - 6	6 / -0.5	Proctor 102	6.8	138.1	6.6	130.5	122.4	88.6	X				
12	A8PH7 - 7	6 / -0.5	Proctor 102	6.8	138.1	5.6	125.6	118.9	86.1	X				
13	A8PH7 - 8	6 / -0.5	Proctor 102	6.8	138.1	5.9	126.9	120.1	86.9	X				
14	A8PH7 - 9	6 / -0.5	Proctor 102	6.8	138.1	5.4	126.6	120.1	87.0	X				
15	A8PH7 - 10	6 / -0.5	Proctor 102	6.8	138.1	5.8	132.6	125.4	90.8	X				

NOTES:

COMMENTS:

CHECKED BY: HRG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 18 day April month 2024 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PennDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	A8PH7 - SCV25A-1 (East Side)	6 / -1.0	Proctor 103	6.2	138.7	7.9	138.9	131.1	94.5	X				
2	A8PH7 - SCV25A-2 (East Side)	6 / -1.0	Proctor 103	6.2	138.7	7.9	138.7	130.1	93.8	X				
3	A8PH7 - SCV25A-3 (East Side)	6 / -1.0	Proctor 103	6.2	138.7	7.9	140.4	133.4	96.2	X				
4	A8PH7 - SCV25A-4 (East Side)	6 / -1.0	Proctor 103	6.2	138.7	8	140	133.0	95.9	X				
5	A8PH7 - SCV25A-5 (East Side)	6 / -1.0	Proctor 103	6.2	138.7	8	136.4	130.7	94.2	X				

NOTES:

COMMENTS:

CHECKED BY: HRG

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: IRM5A2 - NAF

LOCATION: Elmira, NY 14904 PROJECT NO.: MN0832I TASK NO.: 39

DESCRIPTION: Compaction Testing DATE: 19 day April month 2024 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Lawrenceville PennDOT #2A Type S

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)

MINIMUM COMPACTION: 85 (%) X ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: 3440 GAUGE SERIAL NO.: 87202 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	A8PH7 - SCV25A-6 (East Side)	6 / -0.5	Proctor 103	6.2	138.7	7.9	130	120.5	86.9	X				
2	A8PH7 - SCV25A-7 (East Side)	6 / -0.5	Proctor 103	6.2	138.7	7.6	134	124.5	89.8	X				
3	A8PH7 - SCV25A-8 (East Side)	6 / -0.5	Proctor 103	6.2	138.7	7.4	138.3	128.8	92.9	X				
4	A8PH7 - SCV25A-9 (East Side)	6 / -0.5	Proctor 103	6.2	138.7	7.1	137.4	128.2	92.4	X				
5	A8PH7 - SCV25A-20 (East Side)	6 / -0.5	Proctor 103	6.2	138.7	7.7	136.9	127.1	91.6	X				

NOTES:

COMMENTS:

CHECKED BY: HRG