



REPORT OF SOILS FIELD COMPACTION TESTING

CLIENT: Ludlow Construction Co., Inc.
 19 Carmelina's Circle
 Ludlow, MA 01056
 Attn: Mr. Mike Pio

PROJECT: Durham Meadows Waterline
 Durham, CT

DATE: May 8, 2020

REPORT #: 19-75-012-056 Page 1 of 5

General Location: South Main Street (Route 17), Waterline Trench (Station #182+40 - Station #184+15)
Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 52°F
Weather: Overcast
Soil ID#: 3519-592
Soil Type: Light Gray Gravel w/ Sand & Silt
Proctor Sample Source: Haynes Group

Proctor Value: 141.4 **lbs/ft³**

Optimum Moisture: 4.6%

Gauge Type: Troxler 3430

Required Compaction: 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
1	6"/ 3.5' BFG	4.1%	136.7	96.7%
LOCATION:	Station #182+45			
2	6"/ 2' 8" BFG	3.7%	134.8	95.3%
LOCATION:	Station #182+50			
3	6"/ 2.0' BFG	2.4%	134.6	95.2%
LOCATION:	Station #182+45			
4	6"/ 3.5' BFG	2.6%	136.2	96.3%
LOCATION:	Station #182+75			
5	6"/ 2' 8" BFG	2.9%	135.0	95.5%
LOCATION:	Station #182+80			
6	6"/ 2.0' BFG	2.2%	139.5	98.7%
LOCATION:	Station #182+70			
7	6"/ 3.5' BFG	3.1%	134.6	95.2%
LOCATION:	Station #183+00			
8	6"/ 2' 8" BFG	2.3%	137.2	97.0%
LOCATION:	Station #183+05			

REMARKS: BFG - Below Finish Grade (Base Course for Asphalt)



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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	6" / 2.0' BFG	1.8%	136.4	96.5%
LOCATION:	Station #182+95			
10	6" / 3.5' BFG	3.8%	135.6	95.9%
LOCATION:	Station #183+25			
11	6" / 2' 8" BFG	2.5%	135.7	96.0%
LOCATION:	Station #183+30			
12	6" / 2.0' BFG	3.3%	137.6	97.3%
LOCATION:	Station #183+35			
13	6" / 3.5' BFG	3.7%	136.5	96.5%
LOCATION:	Station #183+50			
14	6" / 2' 8" BFG	3.1%	135.1	95.5%
LOCATION:	Station #183+60			
15	6" / 2.0' BFG	3.0%	138.1	97.7%
LOCATION:	Station #183+55			
16	6" / 3.5' BFG	4.2%	137.7	97.4%
LOCATION:	Station #183+75			

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	6" / 2' 8" BFG	4.0%	136.6	96.6%
LOCATION:	Station #183+85			
18	6" / 2.0' BFG	2.6%	140.5	99.4%
LOCATION:	Station #183+80			
19	6" / 3.5' BFG	4.1%	136.9	96.8%
LOCATION:	Station #184+05			
20	6" / 2' 8" BFG	3.6%	138.0	97.6%
LOCATION:	Station #184+00			
21	6" / 2.0' BFG	3.2%	137.8	97.5%
LOCATION:	Station #184+10			
LOCATION:				
LOCATION:				
LOCATION:				

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Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 52°F
Weather: Overcast
Soil ID#: 3519-608
Soil Type: Light Gray Gravel w/ Silt & Sand (1.5" Gravel)
Proctor Sample Source: Haynes Group

Proctor Value: 138.9 lbs/ft³ **Optimum Moisture:** 7.8%
Gauge Type: Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
22	6"/ 18" BFG	1.9%	134.9	97.1%
LOCATION: Station #182+60				
23	6"/ 4" BFG	1.7%	138.6	99.8%
LOCATION: Station #182+50				
24	6"/ 18" BFG	1.8%	135.0	97.2%
LOCATION: Station #182+85				
25	6"/ 4" BFG	2.2%	137.2	98.8%
LOCATION: Station #182+80				
26	6"/ 18" BFG	2.0%	136.0	97.9%
LOCATION: Station #193+10				
27	6"/ 4" BFG	1.6%	138.1	99.4%
LOCATION: Station #183+05				
28	6"/ 18" BFG	2.6%	136.1	98.0%
LOCATION: Station #183+30				
29	6"/ 4" BFG	2.1%	137.4	98.9%
LOCATION: Station #183+40				

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
30	6"/ 18" BFG	2.7%	136.3	98.1%
LOCATION: Station #183+50				
31	6"/ 4" BFG	2.0%	136.7	98.4%
LOCATION: Station #183+60				
32	6"/ 18" BFG	1.7%	134.6	96.9%
LOCATION: Station #183+80				
33	6"/ 4" BFG	2.5%	138.3	99.6%
LOCATION: Station #183+85				
34	6"/ 18" BFG	3.4%	137.3	98.8%
LOCATION: Station #183+95				
35	6"/ 4" BFG	2.9%	137.7	99.1%
LOCATION: Station #184+05				
LOCATION:				
LOCATION:				
LOCATION:				

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