



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: April 27, 2020

REPORT #: 19-75-012-048 Page 1 of 6

General Location: South Main Street (Route 17), Waterline Trench (Station #164+19 - Station #165+69)
Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 53°F
Weather: Clear
Soil ID#: 3519-600
Soil Type: Reddish Brown Silty Sand w/ Gravel
Proctor Sample Source: On Site

Proctor Value: 136.3 **lbs/ft³** **Optimum Moisture:** 6.6%
Gauge Type: Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
1	6"/ 3.5' BFG	8.9%	131.4	96.4%
LOCATION:	Station #167+10			
2	6"/ 3.5' BFG	7.0%	131.5	96.5%
LOCATION:	Station #167+40			
3	6"/ 3.5' BFG	7.9%	130.5	95.7%
LOCATION:	Station #167+60			
4	6"/ 3.5' BFG	7.7%	132.6	97.3%
LOCATION:	Station #167+85			
LOCATION:				
LOCATION:				
LOCATION:				
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REMARKS: BFG - Below Finish Grade (Base Course for Asphalt)



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Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 53°F
Weather: Clear
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 (%)
5	6" / 2' 8" BFG	3.9%	138.5	97.9%
LOCATION:	Station #167+10			
6	6" / 2.0' BFG	3.2%	135.0	95.5%
LOCATION:	Station #167+20			
7	6" / 2' 8" BFG	4.1%	136.6	96.6%
LOCATION:	Station #167+40			
8	6" / 2.0' BFG	4.4%	138.7	98.1%
LOCATION:	Station #167+35			
9	6" / 2' 8" BFG	6.5%	136.0	96.2%
LOCATION:	Station #167+75			
10	6" / 2.0' BFG	2.8%	136.5	96.5%
LOCATION:	Station #167+60			
11	6" / 2' 8" BFG	4.6%	135.7	96.0%
LOCATION:	Station #167+85			
12	6" / 2.0' BFG	3.6%	138.0	97.6%
LOCATION:	Station #167+95			

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Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 53°F
Weather: Clear
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 (%)
25	6"/ 18" BFG	3.7%	136.7	98.4%
LOCATION:	Station #167+25			
26	6"/ 4" BFG	3.3%	135.4	97.5%
LOCATION:	Station #167+10			
27	6"/ 4" BFG	4.3%	135.1	97.3%
LOCATION:	Station #167+35			
28	6"/ 4" BFG	3.4%	134.8	97.0%
LOCATION:	Station #167+45			
29	6"/ 18" BFG	3.3%	136.7	98.4%
LOCATION:	Station #167+65			
30	6"/ 4" BFG	2.9%	134.1	96.5%
LOCATION:	Station #167+70			
31	6"/ 18" BFG	3.0%	137.2	98.8%
LOCATION:	Station #167+85			
32	6"/ 4" BFG	2.7%	137.5	99.0%
LOCATION:	Station #168+00			

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Air Temp: 53°F
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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 (%)
33	6"/ 18" BFG	3.4%	136.7	98.4%
LOCATION:	Station #168+20			
34	6"/ 4" BFG	3.9%	138.8	99.9%
LOCATION:	Station #168+15			
35	6"/ 4" BFG	3.4%	136.0	97.9%
LOCATION:	Station #168+40			
36	6"/ 4" BFG	3.3%	137.0	98.6%
LOCATION:	Station #168+50			
37	6"/ 18" BFG	4.4%	132.2	95.2%
LOCATION:	Station #168+75			
38	6"/ 4" BFG	3.7%	138.9	100.0%
LOCATION:	Station #168+70			
39	6"/ 18" BFG	3.0%	135.7	97.7%
LOCATION:	Station #169+00			
40	6"/ 4" BFG	3.1%	133.4	96.0%
LOCATION:	Station #168+90			

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