





**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 22, 2020

**REPORT #:** 19-75-012-046 Page 2 of 5

**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:** 38°F  
**Weather:** Sunny  
**Soil ID#:** 3519-592  
**Soil Type:** Light Gray Gravel w/ Sand & Silt  
**Proctor Sample Source:** Haynes Group

**Proctor Value:** 141.4 **lbs/ft<sup>3</sup>** **Optimum Moisture:** 4.6%  
**Gauge Type:** Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
7	6"/ 3.5' BFG	6.8%	138.1	97.7%
<b>LOCATION:</b>	Station #164+25			
8	6"/ 2' 8" BFG	5.7%	139.3	98.5%
<b>LOCATION:</b>	Station #164+40			
9	6"/ 3.5' BFG	6.9%	135.2	95.6%
<b>LOCATION:</b>	Station #164+50			
10	6"/ 2' 8" BFG	6.1%	135.6	95.9%
<b>LOCATION:</b>	Station #164+60			
11	6"/ 3.5' BFG	7.3%	138.6	98.0%
<b>LOCATION:</b>	Station #164+90			
12	6"/ 2' 8" BFG	6.7%	136.3	96.4%
<b>LOCATION:</b>	Station #164+75			
13	6"/ 3.5' BFG	6.5%	135.3	95.7%
<b>LOCATION:</b>	Station #165+00			
14	6"/ 2' 8" BFG	6.0%	137.6	97.3%
<b>LOCATION:</b>	Station #165+10			

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





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**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 38°F  
**Weather:** Sunny  
**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/ft<sup>3</sup>      **Optimum Moisture:** 7.8%  
**Gauge Type:** Troxler 3430      **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
19	6"/ 18" BFG	3.7%	137.5	99.0%
<b>LOCATION:</b>	Station #164+30			
20	6"/ 4" BFG	3.9%	138.1	99.4%
<b>LOCATION:</b>	Station #164+40			
21	6"/ 4" BFG	4.0%	136.7	98.4%
<b>LOCATION:</b>	Station #164+50			
22	6"/ 4" BFG	3.2%	137.8	99.2%
<b>LOCATION:</b>	Station #164+65			
23	6"/ 18" BFG	3.8%	134.8	97.0%
<b>LOCATION:</b>	Station #164+80			
24	6"/ 4" BFG	2.0%	132.0	95.0%
<b>LOCATION:</b>	Station #164+85			
25	6"/ 18" BFG	4.3%	137.2	98.8%
<b>LOCATION:</b>	Station #165+05			
26	6"/ 4" BFG	2.6%	132.9	95.7%
<b>LOCATION:</b>	Station #165+15			

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**Gauge Type:** Troxler 3430      **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
27	6"/ 18" BFG	2.3%	136.8	98.5%
<b>LOCATION:</b>	Station #165+35			
28	6"/ 4" BFG	2.1%	135.0	97.2%
<b>LOCATION:</b>	Station #165+40			
29	6"/ 18" BFG	2.9%	136.4	98.2%
<b>LOCATION:</b>	Station #165+60			
30	6"/ 4" BFG	3.1%	137.8	99.2%
<b>LOCATION:</b>	Station #165+50			
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