



**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 7, 2020

**REPORT #:** 19-75-012-055 Page 1 of 7

**General Location:** South Main Street (Route 17), Waterline Trench (Station #180+40 - Station #182+40)  
**Field Rep:** Stephen Devlin  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 64°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/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 (%)
1	6"/ 3.5' BFG	2.6%	136.6	96.6%
<b>LOCATION:</b>	Station #180+60			
2	6"/ 2' 8" BFG	3.3%	137.7	97.4%
<b>LOCATION:</b>	Station #180+55			
3	6"/ 2.0' BFG	2.5%	140.9	99.6%
<b>LOCATION:</b>	Station #180+60			
4	6"/ 3.5' BFG	2.9%	138.5	97.9%
<b>LOCATION:</b>	Station #180+85			
5	6"/ 2' 8" BFG	2.3%	137.3	97.1%
<b>LOCATION:</b>	Station #180+75			
6	6"/ 2.0' BFG	3.1%	136.0	96.2%
<b>LOCATION:</b>	Station #180+70			
7	6"/ 3.5' BFG	4.0%	134.8	95.3%
<b>LOCATION:</b>	Station #181+10			
8	6"/ 2' 8" BFG	3.4%	136.9	96.8%
<b>LOCATION:</b>	Station #181+00			

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







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**General Location:** South Main Street (Route 17), Waterline Trench (Station #180+40 - Station #182+40)  
**Field Rep:** Stephen Devlin  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 64°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/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 (%)
25	6"/ 18" BFG	2.2%	135.8	97.8%
<b>LOCATION:</b> Station #180+60				
26	6"/ 4" BFG	2.9%	136.9	98.6%
<b>LOCATION:</b> Station #180+65				
27	6"/ 18" BFG	2.7%	135.2	97.3%
<b>LOCATION:</b> Station #180+80				
28	6"/ 4" BFG	2.2%	134.9	97.1%
<b>LOCATION:</b> Station #180+75				
29	6"/ 18" BFG	2.0%	136.0	97.9%
<b>LOCATION:</b> Station #181+00				
30	6"/ 4" BFG	2.9%	135.6	97.6%
<b>LOCATION:</b> Station #180+95				
31	6"/ 18" BFG	2.6%	136.8	98.5%
<b>LOCATION:</b> Station #181+25				
32	6"/ 4" BFG	2.3%	133.5	96.1%
<b>LOCATION:</b> Station #181+30				

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**REPORT #:** 19-75-012-055 Page 6 of 7

**General Location:** Talcott Ridge Road, New Road Construction, Tank Site Work  
**Field Rep:** Stephen Devlin  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 65°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/ft<sup>3</sup>**      **Optimum Moisture:** 6.6%  
**Gauge Type:** Troxler 3430      **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
41	6"/ 1.0' BFG	6.6%	134.0	98.3%
<b>LOCATION:</b>	Station #1300+00			
42	6"/ 1.0' BFG	6.2%	135.1	99.1%
<b>LOCATION:</b>	Station #1245+00			
43	6"/ 2.5' BFG	6.4%	132.1	96.9%
<b>LOCATION:</b>	Station #1160+00			
<b>LOCATION:</b>				
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**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 (%)
44	6"/ Finish Grade	2.5%	136.2	98.1%
<b>LOCATION:</b>	Station #1370+00			
45	6"/ Finish Grade	3.0%	135.7	97.7%
<b>LOCATION:</b>	Station #1400+00			
46	6"/ Finish Grade	3.1%	135.5	97.6%
<b>LOCATION:</b>	Station #1300+00			
<b>LOCATION:</b>				
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**REMARKS:**