



**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:** October 29, 2019

**REPORT #:** 19-75-012-023 Page 1 of 5

**General Location:** South Main Street, Waterline Trench  
**Field Rep:** Stephen Sturges  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 60°F  
**Weather:** Night/ Rain  
**Soil ID#:** 3519-592  
**Soil Type:** Light Grey Gravel w/ Sand & Silt (3.5" Gravel)  
**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	12"/ 44.0" BFG	3.3%	137.7	97.4%
<b>LOCATION:</b> Station #134+76				
2	12"/ 44.0" BFG	3.8%	138.0	97.6%
<b>LOCATION:</b> Station #135+01				
3	12"/ 44.0" BFG	3.1%	138.3	97.8%
<b>LOCATION:</b> Station #135+26				
4	12"/ 44.0" BFG	4.8%	137.6	97.3%
<b>LOCATION:</b> Station #135+51				
5	12"/ 44.0" BFG	4.4%	139.0	98.3%
<b>LOCATION:</b> Station #135+76				
6	12"/ 44.0" BFG	1.9%	137.7	97.4%
<b>LOCATION:</b> Station #136+01				
7	12"/ 44.0" BFG	3.4%	136.8	96.7%
<b>LOCATION:</b> Station #136+26				
8	12"/ 44.0" BFG	4.0%	137.0	96.9%
<b>LOCATION:</b> Station #136+51				

**REMARKS:** BFG - Below Finish Grade  
 Crew Finished at Station #136+58



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

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	12"/ 32.0" BFG	4.6%	137.9	97.5%
<b>LOCATION:</b>	Station #134+76			
10	12"/ 32.0" BFG	4.3%	137.0	96.9%
<b>LOCATION:</b>	Station #135+01			
11	12"/ 32.0" BFG	4.9%	137.2	97.0%
<b>LOCATION:</b>	Station #135+26			
12	12"/ 32.0" BFG	5.1%	138.1	97.7%
<b>LOCATION:</b>	Station #135+51			
13	12"/ 32.0" BFG	5.5%	136.8	96.7%
<b>LOCATION:</b>	Station #135+76			
14	12"/ 32.0" BFG	4.3%	137.4	97.2%
<b>LOCATION:</b>	Station #136+01			
15	12"/ 32.0" BFG	3.9%	137.2	97.0%
<b>LOCATION:</b>	Station #136+26			
16	12"/ 32.0" BFG	4.1%	137.8	97.5%
<b>LOCATION:</b>	Station #136+51			

**REMARKS:** BFG - Below Finish Grade  
 Crew Finished at Station #136+58



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**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 (%)
17	12"/ 20.0" BFG	4.5%	138.4	97.9%
<b>LOCATION:</b>	Station #134+76			
18	12"/ 20.0" BFG	3.8%	139.0	98.3%
<b>LOCATION:</b>	Station #135+01			
19	12"/ 20.0" BFG	5.2%	137.8	97.5%
<b>LOCATION:</b>	Station #135+26			
20	12"/ 20.0" BFG	4.6%	138.9	98.2%
<b>LOCATION:</b>	Station #135+51			
21	12"/ 20.0" BFG	4.8%	138.0	97.6%
<b>LOCATION:</b>	Station #135+76			
22	12"/ 20.0" BFG	5.0%	139.0	98.3%
<b>LOCATION:</b>	Station #136+01			
23	12"/ 20.0" BFG	5.5%	137.7	97.4%
<b>LOCATION:</b>	Station #136+26			
24	12"/ 20.0" BFG	4.8%	138.6	98.0%
<b>LOCATION:</b>	Station #136+51			

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**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 60°F  
**Weather:** Night/ Rain  
**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	8"/ 12.0" BFG	3.3%	136.4	98.2%
<b>LOCATION:</b>	Station #134+76			
26	8"/ 12.0" BFG	3.0%	135.4	97.5%
<b>LOCATION:</b>	Station #135+01			
27	8"/ 12.0" BFG	2.4%	135.5	97.6%
<b>LOCATION:</b>	Station #135+26			
28	8"/ 12.0" BFG	2.8%	136.0	97.9%
<b>LOCATION:</b>	Station #135+51			
29	8"/ 12.0" BFG	1.9%	134.7	97.0%
<b>LOCATION:</b>	Station #135+76			
30	8"/ 12.0" BFG	4.0%	134.0	96.5%
<b>LOCATION:</b>	Station #136+01			
31	8"/ 12.0" BFG	4.3%	133.3	96.0%
<b>LOCATION:</b>	Station #136+26			
32	8"/ 12.0" BFG	3.5%	134.7	97.0%
<b>LOCATION:</b>	Station #136+51			

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

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
33	8" / 4.0" BFG	4.4%	136.0	97.9%
<b>LOCATION:</b>	Station #134+76			
34	8" / 4.0" BFG	5.9%	135.8	97.8%
<b>LOCATION:</b>	Station #135+01			
35	8" / 4.0" BFG	4.8%	134.8	97.0%
<b>LOCATION:</b>	Station #135+26			
36	8" / 4.0" BFG	5.0%	135.9	97.8%
<b>LOCATION:</b>	Station #135+51			
37	8" / 4.0" BFG	3.8%	134.4	96.8%
<b>LOCATION:</b>	Station #135+76			
38	8" / 4.0" BFG	3.4%	133.8	96.3%
<b>LOCATION:</b>	Station #136+01			
39	8" / 4.0" BFG	4.4%	135.0	97.2%
<b>LOCATION:</b>	Station #136+26			
40	8" / 4.0" BFG	4.2%	136.0	97.9%
<b>LOCATION:</b>	Station #136+51			

**REMARKS:** BFG - Below Finish Grade  
 Crew Finished at Station #136+58