



**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:** August 26, 2020

**REPORT #:** 19-75-012-095 Page 1 of 4

**General Location:** South Main Street (Route 17)  
**Field Rep:** Hunter Davis  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 77°F  
**Weather:** Sunny  
**Soil ID#:** 3520-323  
**Soil Type:** Reddish brown silty sand with gravel (Native material)  
**Proctor Sample Source:** On site

**Proctor Value:** 139.0      **lbs/ft<sup>3</sup>**      **Optimum Moisture:** 6.2%  
**Gauge Type:** Troxler 3430      **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
1	8" / 1.5' BFG	7.0%	135.5	97.5%
<b>LOCATION:</b> Station #938+00				
2	8" / 2.0' BFG	8.4%	137.2	98.7%
<b>LOCATION:</b> Station #938+00				
3	8" / 3.0' BFG	6.4%	135.6	97.6%
<b>LOCATION:</b> Station #938+00				
4	8" / 1.5' BFG	6.7%	134.6	96.8%
<b>LOCATION:</b> Station #939+50				
5	8" / 2.0' BFG	5.9%	133.9	96.3%
<b>LOCATION:</b> Station #939+50				
6	8" / 3.0' BFG	6.2%	134.2	96.5%
<b>LOCATION:</b> Station #939+50				
7	8" / 1.5' BFG	5.8%	134.5	96.8%
<b>LOCATION:</b> Station #196+58				
8	8" / 3.0' BFG	6.3%	133.3	95.9%
<b>LOCATION:</b> Station #196+58				

**REMARKS:** BFG - Below Finish Grade



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**REPORT #:** 19-75-012-095 Page 2 of 4

**General Location:** South Main Street (Route 17)  
**Field Rep:** Hunter Davis  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 77°F  
**Weather:** Sunny  
**Soil ID#:** 3520-323  
**Soil Type:** Reddish brown silty sand with gravel (Native material)  
**Proctor Sample Source:** On site

**Proctor Value:** 139.0      **lbs/ft<sup>3</sup>**      **Optimum Moisture:** 6.2%  
**Gauge Type:** Troxler 3430      **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	8" / 3.0' BFG	1.0%	132.2	95.1%
<b>LOCATION:</b>	Station #939+50			
10	8" / 2.0' BFG	2.1%	134.1	96.5%
<b>LOCATION:</b>	Station #939+50			
11	8" / 14" BFG	1.3%	136.9	98.5%
<b>LOCATION:</b>	Station #939+50			
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				
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**REMARKS:** BFG - Below Finish Grade



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**REPORT #:** 19-75-012-095 Page 3 of 4

**General Location:** South Main Street (Route 17)  
**Field Rep:** Hunter Davis  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 77°F  
**Weather:** Sunny  
**Soil ID#:** 3519-608  
**Soil Type:** Light gray gravel with silt and sand  
**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 (%)
12	8" / 4" BFG	1.2%	133.5	96.1%
<b>LOCATION:</b>	Station #196+58			
13	8" / 4" BFG	2.2%	132.2	95.2%
<b>LOCATION:</b>	Station #199+25			
<b>LOCATION:</b>				
<b>LOCATION:</b>				
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<b>LOCATION:</b>				

**REMARKS:** BFG - Below Finish Grade



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**DATE:** August 26, 2020

**REPORT #:** 19-75-012-095 Page 4 of 4

**General Location:** South Main Street (Route 17)  
**Field Rep:** Sarah Burke  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 85°F  
**Weather:** Sunny  
**Soil ID#:** 3519-592  
**Soil Type:** Light gray gravel with sand and 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 (%)
14	8" / 4" BFG	1.3%	134.9	95.4%
<b>LOCATION:</b>	Station #939+50			
15	8" / 4" BFG	1.4%	134.4	95.0%
<b>LOCATION:</b>	Station #938+00			
16	8" / 4" BFG	1.3%	139.3	98.5%
<b>LOCATION:</b>	Station #937+50			
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				

**REMARKS:** BFG - Below Finish Grade (Top of Asphalt)