



**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:** June 23, 2020

**REPORT #:** 19-75-012-081 Page 1 of 4

**General Location:** Route 68, Waterline Trench  
**Field Rep:** Stephen Sturges  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 88°F  
**Weather:** Sunny/ Clear  
**Soil ID#:** 3519-592  
**Soil Type:** Light Gray 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 3440      **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
1	12"/ Lift #1	3.0%	137.6	97.3%
<b>LOCATION:</b>	Station #920+80			
2	12"/ Lift #2	2.2%	138.3	97.8%
<b>LOCATION:</b>	Station #920+80			
3	12"/ Lift #1	2.6%	138.2	97.7%
<b>LOCATION:</b>	Station #920+69			
4	12"/ Lift #2	3.3%	137.7	97.4%
<b>LOCATION:</b>	Station #920+69			
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				

**REMARKS:**



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**General Location:** Route 68, Waterline Trench  
**Field Rep:** Stephen Sturges  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 88°F  
**Weather:** Sunny/ 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 3440      **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
5	8" / Lift #1	2.4%	135.5	97.6%
<b>LOCATION:</b>	Station #920+80			
6	8" / Lift #2	2.8%	135.9	97.8%
<b>LOCATION:</b>	Station #920+80			
7	8" / Lift #1	3.1%	136.7	98.4%
<b>LOCATION:</b>	Station #920+69			
8	8" / Lift #2	1.9%	136.0	97.9%
<b>LOCATION:</b>	Station #920+69			
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				

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



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 Durham, CT

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**REPORT #:** 19-75-012-081 Page 3 of 4

**General Location:** Maiden Lane, Waterline Trench  
**Field Rep:** Stephen Sturges  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 88°F  
**Weather:** Sunny/ 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 3440      **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	10"/ 4" BFG	1.9%	133.0	95.8%
<b>LOCATION:</b>	Station #412+50			
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				
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**REMARKS:** BFG - Below Finish Grade (Base Course for Asphalt)



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**REPORT #:** 19-75-012-081 Page 4 of 4

**General Location:** Talcott Ridge Road, Water Tank Base  
**Field Rep:** Stephen Sturges  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 88°F  
**Weather:** Sunny/ Clear  
**Soil ID#:** 3520-218  
**Soil Type:** Dark brown clayey sand w/ gravel (Bankroll clay/silt)  
**Proctor Sample Source:** On site

**Proctor Value:** 131.3 **lbs/ft<sup>3</sup>** **Optimum Moisture:** 8.7%  
**Gauge Type:** Troxler 3440 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
10	12"/ 436.0'	1.9%	127.7	97.3%
<b>LOCATION:</b>	Center of Base			
11	12"/ 437.0'	5.3%	129.2	98.4%
<b>LOCATION:</b>	Center of Base			
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				
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<b>LOCATION:</b>				
<b>LOCATION:</b>				

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