



## 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:** September 18, 2019

**REPORT #:** 19-75-012-007 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:** 45°F  
**Weather:** Night/ Clear  
**Soil ID#:** 3519-600  
**Soil Type:** Reddish Brown Silty Sand w/ Gravel  
**Proctor Sample Source:** Onsite

**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 (%)
1	10"/40.0" BFG	11.4%	131.3	96.3%
LOCATION: Station #106+86				
2	10"/ 40.0" BFG	12.0%	131.0	96.1%
LOCATION: Station #107+11				
3	10"/ 40.0" BFG	9.9%	132.0	96.8%
LOCATION: Station #107+36				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
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LOCATION:				
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**REMARKS:** BFG - Below Finish Grade (BFG - 4.0" Below Base Course for Asphalt)  
Crew ended work at Station #107+50



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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
4	10"/28.0" BFG	9.0%	132.5	97.2%
<b>LOCATION:</b> Station #106+86				
5	10"/ 28.0" BFG	8.3%	130.8	96.0%
<b>LOCATION:</b> Station #107+11				
6	10"/ 28.0" BFG	10.0%	130.3	95.6%
<b>LOCATION:</b> Station #107+36				
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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
7	10"/16.0" BFG	7.9%	132.2	97.0%
<b>LOCATION:</b> Station #106+86				
8	10"/ 16.0" BFG	8.7%	131.9	96.8%
<b>LOCATION:</b> Station #107+11				
9	10"/ 16.0" BFG	7.0%	131.3	96.3%
<b>LOCATION:</b> Station #107+36				
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**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 45°F  
**Weather:** Night/ Clear  
**Soil ID#:** 3519-608  
**Soil Type:** Light Gray Gravel w/ Silt & Sand (1.5" minus)  
**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 (%)
10	6"/8.0" BFG	2.7%	134.0	96.5%
LOCATION: Station #106+86				
11	6"/8.0" BFG	3.1%	134.7	97.0%
LOCATION: Station #107+11				
12	6"/8.0" BFG	3.4%	134.1	96.5%
LOCATION: Station #107+36				
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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
13	2"/4.0" BFG	3.3%	134.7	97.0%
LOCATION: Station #106+86				
14	2"/ 4.0" BFG	3.6%	135.3	97.4%
LOCATION: Station #107+11				
15	2"/ 4.0" BFG	2.8%	135.9	97.8%
LOCATION: Station #107+36				
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