



## 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 28, 2020

**REPORT #:** 19-75-012-070 Page 1 of 5

**General Location:** South Main Street (Route 17), Waterline Trench  
**Field Rep:** Jim LaCroix  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 65°F  
**Weather:** OverCast  
**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"/ 32.0" BFG	2.2%	134.6	95.2%
<b>LOCATION:</b>	Station #204+5'			
2	6"/ 24.0" BFG	2.2%	136.3	96.4%
<b>LOCATION:</b>	Station #204+5'			
3	6"/ 16.0" BFG	2.4%	136.6	96.6%
<b>LOCATION:</b>	Station #204+5'			
4	6"/ 32.0" BFG	3.5%	134.4	95.0%
<b>LOCATION:</b>	3			
5	6"/ 24.0" BFG	2.9%	137.0	96.9%
<b>LOCATION:</b>	Station #204+30'			
6	6"/ 16.0" BFG	2.7%	140.6	99.4%
<b>LOCATION:</b>	Station #204+30'			
7	6"/ 32.0" BFG	2.0%	135.3	95.7%
<b>LOCATION:</b>	Station #204+55'			
8	6"/ 24.0" BFG	2.2%	136.8	96.7%
<b>LOCATION:</b>	Station #204+55'			

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



**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 28, 2020

**REPORT #:** 19-75-012-070 Page 2 of 5

**General Location:** South Main Street (Route 17), Waterline Trench  
**Field Rep:** Jim LaCroix  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 65°F  
**Weather:** OverCast  
**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 (%)
9	6"/ 16.0" BFG	1.9%	135.8	96.0%
<b>LOCATION:</b>	Station #204+55'			
10	6"/ 32.0" BFG	2.7%	134.9	95.4%
<b>LOCATION:</b>	Station #204+80'			
11	6"/ 24.0" BFG	1.9%	135.8	96.0%
<b>LOCATION:</b>	Station #204+80'			
12	6"/ 16.0" BFG	2.6%	140.4	99.3%
<b>LOCATION:</b>	Station #204+80'			
13	6"/ 32.0" BFG	2.4%	135.7	96.0%
<b>LOCATION:</b>	Station #200+5'			
14	6"/ 24.0" BFG	2.6%	136.5	96.5%
<b>LOCATION:</b>	Station #200+5'			
15	6"/ 16.0" BFG	2.5%	138.6	98.0%
<b>LOCATION:</b>	Station #200+5'			
16	6"/ 32.0" BFG	1.6%	136.6	96.6%
<b>LOCATION:</b>	Station #200+30'			

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



**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 28, 2020

**REPORT #:** 19-75-012-070 Page 3 of 5

**General Location:** South Main Street (Route 17), Waterline Trench  
**Field Rep:** Jim LaCroix  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 65°F  
**Weather:** OverCast  
**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 (%)
17	6"/ 24.0" BFG	2.4%	134.5	95.1%
<b>LOCATION:</b>	Station #205+30'			
18	6"/ 16.0" BFG	2.5%	138.8	98.2%
<b>LOCATION:</b>	Station #205+30'			
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				

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



## 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 28, 2020

**REPORT #:** 19-75-012-070 Page 4 of 5

**General Location:** South Main Street (Route 17), Waterline Trench  
**Field Rep:** Jim LaCroix  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 65°F  
**Weather:** OverCast  
**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 (%)
19	6"/ 8.0" BFG	2.3%	135.9	97.8%
<b>LOCATION:</b>	Station #204+5'			
20	6"/ Finish Grade	2.8%	134.1	96.5%
<b>LOCATION:</b>	Station #204+5'			
21	6"/ 8.0" BFG	2.1%	134.7	97.0%
<b>LOCATION:</b>	Station #204+30'			
22	6"/ Finish Grade	2.6%	134.1	96.5%
<b>LOCATION:</b>	Station #204+30'			
23	6"/ 8.0" BFG	1.9%	134.5	96.8%
<b>LOCATION:</b>	Station #204+55'			
24	6"/ Finish Grade	2.1%	133.1	95.8%
<b>LOCATION:</b>	Station #204+55'			
25	6"/ 8.0" BFG	2.2%	134.6	96.9%
<b>LOCATION:</b>	Station #204+80'			
26	6"/ Finish Grade	1.9%	134.8	97.0%
<b>LOCATION:</b>	Station #204+80'			

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



**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 28, 2020

**REPORT #:** 19-75-012-070 Page 5 of 5

**General Location:** South Main Street (Route 17), Waterline Trench  
**Field Rep:** Jim LaCroix  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 65°F  
**Weather:** OverCast  
**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 (%)
27	6"/ 8.0" BFG	1.6%	136.6	98.3%
<b>LOCATION:</b>	Station #205+5'			
28	6"/ Finish Grade	1.9%	134.4	96.8%
<b>LOCATION:</b>	Station #205+5'			
29	6"/ 8.0" BFG	2.4%	137.1	98.7%
<b>LOCATION:</b>	Station #205+30'			
30	6"/ Finish Grade	2.5%	135.8	97.8%
<b>LOCATION:</b>	Station #205+30'			
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				

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