



## 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 8, 2019

**REPORT #:** 19-75-012-011 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:** 54°F

**Weather:** Night

**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"/44.0" BFG	10.3%	131.3	96.3%
<b>LOCATION:</b> Station #114+13				
2	10"/ 44.0" BFG	12.1%	129.9	95.3%
<b>LOCATION:</b> Station #114+38				
3	10"/ 44.0" BFG	11.6%	130.3	95.6%
<b>LOCATION:</b> Station #114+53				
4	10"/ 44.0" BFG	9.8%	130.5	95.7%
<b>LOCATION:</b> Station #114+78				
5	10"/ 44.0" BFG	10.5%	131.0	96.1%
<b>LOCATION:</b> Station #115+03				
6	10"/ 44.0" BFG	9.9%	130.7	95.9%
<b>LOCATION:</b> Station #115+28				
7	10"/ 44.0" BFG	10.3%	130.3	95.6%
<b>LOCATION:</b> Station #115+53				
8	10"/ 44.0" BFG	10.0%	131.1	96.2%
<b>LOCATION:</b> Station #115+78				

**REMARKS:** Crew finished at Station #115+89

BFG - Below Finish Grade



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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	10"/32.0" BFG	8.8%	132.0	96.8%
<b>LOCATION:</b> Station #114+13				
10	10"/ 32.0" BFG	9.4%	130.9	96.0%
<b>LOCATION:</b> Station #114+38				
11	10"/ 32.0" BFG	7.7%	130.3	95.6%
<b>LOCATION:</b> Station #114+53				
12	10"/ 32.0" BFG	7.0%	129.8	95.2%
<b>LOCATION:</b> Station #114+78				
13	10"/ 32.0" BFG	8.1%	130.7	95.9%
<b>LOCATION:</b> Station #115+03				
14	10"/ 32.0" BFG	8.3%	131.2	96.3%
<b>LOCATION:</b> Station #115+28				
15	10"/ 32.0" BFG	7.0%	131.8	96.7%
<b>LOCATION:</b> Station #115+53				
16	10"/ 32.0" BFG	9.2%	131.9	96.8%
<b>LOCATION:</b> Station #115+78				

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**Gauge Type:** Troxler 3430

**Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	10"/20.0" BFG	8.4%	133.0	97.6%
<b>LOCATION:</b> Station #114+13				
18	10"/ 20.0" BFG	9.3%	132.8	97.4%
<b>LOCATION:</b> Station #114+38				
19	10"/ 20.0" BFG	7.6%	133.1	97.7%
<b>LOCATION:</b> Station #114+53				
20	10"/ 20.0" BFG	7.2%	132.5	97.2%
<b>LOCATION:</b> Station #114+78				
21	10"/ 20.0" BFG	7.9%	132.2	97.0%
<b>LOCATION:</b> Station #115+03				
22	10"/ 20.0" BFG	8.8%	131.5	96.5%
<b>LOCATION:</b> Station #115+28				
23	10"/ 20.0" BFG	7.5%	131.2	96.3%
<b>LOCATION:</b> Station #115+53				
24	10"/ 20.0" BFG	8.5%	131.6	96.6%
<b>LOCATION:</b> Station #115+78				

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**General Contractor:** Ludlow Construction Co., Inc.

**Earthwork Contractor:** Ludlow Construction Co., Inc.

**Air Temp:** 54°F

**Weather:** Night

**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	3.0%	134.6	96.9%
<b>LOCATION:</b> Station #114+13				
26	8"/ 12.0" BFG	2.7%	135.6	97.6%
<b>LOCATION:</b> Station #114+38				
27	8"/ 12.0" BFG	2.5%	135.0	97.2%
<b>LOCATION:</b> Station #114+53				
28	8"/ 12.0" BFG	1.7%	135.1	97.3%
<b>LOCATION:</b> Station #114+78				
29	8"/ 12.0" BFG	3.1%	136.0	97.9%
<b>LOCATION:</b> Station #115+03				
30	8"/ 12.0" BFG	4.0%	136.3	98.1%
<b>LOCATION:</b> Station #115+28				
31	8"/ 12.0" BFG	2.7%	135.8	97.8%
<b>LOCATION:</b> Station #115+53				
32	8"/ 12.0" BFG	4.3%	135.4	97.5%
<b>LOCATION:</b> Station #115+78				

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
33	8"/ 4.0" BFG	4.5%	135.9	97.8%
<b>LOCATION:</b> Station #114+13				
34	8"/ 4.0" BFG	3.4%	136.2	98.1%
<b>LOCATION:</b> Station #114+38				
35	8"/ 4.0" BFG	2.7%	135.4	97.5%
<b>LOCATION:</b> Station #114+53				
36	8"/ 4.0" BFG	2.3%	136.6	98.3%
<b>LOCATION:</b> .				
37	8"/ 4.0" BFG	1.9%	136.9	98.6%
<b>LOCATION:</b> Station #115+03				
38	8"/ 4.0" BFG	1.4%	134.8	97.0%
<b>LOCATION:</b> Station #115+28				
39	8"/ 4.0" BFG	3.0%	135.0	97.2%
<b>LOCATION:</b> Station #115+53				
40	8"/ 4.0" BFG	2.5%	135.1	97.3%
<b>LOCATION:</b> Station #115+78				

**REMARKS:** Crew finished at Station #115+89

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