



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: November 11, 2019

REPORT #: 19-75-012-031 Page 1 of 7

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: 34°F
Weather: Night
Soil ID#: 3519-600
Soil Type: Reddish Brown Silty Sand w/ Gravel
Proctor Sample Source: On Site

Proctor Value: 136.3 lbs/ft³

Optimum Moisture: 6.6%

Gauge Type: Troxler 3430

Required Compaction: 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
1	12"/ 44.0" BFG	9.9%	130.9	96.0%
LOCATION:	Station #145+51			
2	12"/ 44.0" BFG	8.9%	130.4	95.7%
LOCATION:	Station #145+76			
3	12"/ 44.0" BFG	8.8%	131.0	96.1%
LOCATION:	Station #146+01			
4	12"/ 44.0" BFG	8.0%	131.8	96.7%
LOCATION:	Station #146+26			
5	12"/ 44.0" BFG	9.1%	131.4	96.4%
LOCATION:	Station #146+51			
6	12"/ 44.0" BFG	7.0%	131.4	96.4%
LOCATION:	Station #146+76			
7	12"/ 44.0" BFG	7.9%	130.8	96.0%
LOCATION:	Station #147+01			
8	12"/ 44.0" BFG	8.3%	130.7	95.9%
LOCATION:	Station #147+26			

REMARKS: BFG - Below Finish Grade
 Crew Finished at Station #147+63



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Gauge Type: Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	12"/ 32.0" BFG	8.0%	131.2	96.3%
LOCATION:	Station #145+51			
10	12"/ 32.0" BFG	8.4%	131.3	96.3%
LOCATION:	Station #145+76			
11	12"/ 32.0" BFG	7.9%	132.0	96.8%
LOCATION:	Station #146+01			
12	12"/ 32.0" BFG	9.2%	131.6	96.6%
LOCATION:	Station #146+26			
13	12"/ 32.0" BFG	8.4%	131.0	96.1%
LOCATION:	Station #146+51			
14	12"/ 32.0" BFG	8.0%	132.1	96.9%
LOCATION:	Station #146+76			
15	12"/ 32.0" BFG	8.1%	131.4	96.4%
LOCATION:	Station #147+01			
16	12"/ 32.0" BFG	9.5%	131.6	96.6%
LOCATION:	Station #147+26			

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	12"/ 20.0" BFG	9.4%	132.4	97.1%
LOCATION:	Station #145+51			
18	12"/ 20.0" BFG	8.7%	131.8	96.7%
LOCATION:	Station #145+76			
19	12"/ 20.0" BFG	8.4%	131.1	96.2%
LOCATION:	Station #146+01			
20	12"/ 20.0" BFG	7.0%	131.0	96.1%
LOCATION:	Station #146+26			
21	12"/ 20.0" BFG	7.4%	132.3	97.1%
LOCATION:	Station #146+51			
22	12"/ 20.0" BFG	8.4%	132.7	97.4%
LOCATION:	Station #146+76			
23	12"/ 20.0" BFG	8.2%	133.0	97.6%
LOCATION:	Station #147+01			
24	12"/ 20.0" BFG	8.0%	132.5	97.2%
LOCATION:	Station #147+26			

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Field Rep: Stephen Sturges
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 34°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/ft³** **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	4.0%	134.0	96.5%
LOCATION:	Station #145+51			
26	8"/ 12.0" BFG	3.4%	135.1	97.3%
LOCATION:	Station #145+76			
27	8"/ 12.0" BFG	2.9%	135.9	97.8%
LOCATION:	Station #146+01			
28	8"/ 12.0" BFG	3.4%	136.1	98.0%
LOCATION:	Station #146+26			
29	8"/ 12.0" BFG	2.4%	135.4	97.5%
LOCATION:	Station #146+51			
30	8"/ 12.0" BFG	3.1%	135.4	97.5%
LOCATION:	Station #146+76			
31	8"/ 12.0" BFG	4.0%	135.6	97.6%
LOCATION:	Station #147+01			
32	8"/ 12.0" BFG	4.5%	134.9	97.1%
LOCATION:	Station #147+26			

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Soil Type: Light Gray Gravel w/ Silt & Sand (1.5" Gravel)
Proctor Sample Source: Haynes Group

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Gauge Type: Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
33	8" / 4.0" BFG	4.1%	134.1	96.5%
LOCATION:	Station #145+51			
34	8" / 4.0" BFG	3.8%	134.7	97.0%
LOCATION:	Station #145+76			
35	8" / 4.0" BFG	4.3%	135.3	97.4%
LOCATION:	Station #146+01			
36	8" / 4.0" BFG	5.0%	135.8	97.8%
LOCATION:	Station #146+26			
37	8" / 4.0" BFG	4.1%	134.9	97.1%
LOCATION:	Station #146+51			
38	8" / 4.0" BFG	3.5%	135.4	97.5%
LOCATION:	Station #146+76			
39	8" / 4.0" BFG	3.9%	136.0	97.9%
LOCATION:	Station #147+01			
40	8" / 4.0" BFG	3.6%	135.8	97.8%
LOCATION:	Station #147+26			

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
41	12"/ 44.0" BFG	7.7%	133.0	97.6%
LOCATION:	Station #147+51			
42	12"/ 32.0" BFG	8.4%	132.7	97.4%
LOCATION:	Station #147+51			
43	12"/ 20.0" BFG	9.3%	133.5	97.9%
LOCATION:	Station #147+51			
LOCATION:				
LOCATION:				
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41	8"/ 12.0" BFG	3.4%	135.4	97.5%
LOCATION:	Station #147+51			
42	8"/ 4.0" BFG	3.7%	136.2	98.1%
LOCATION:	Station #147+51			
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