



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 6, 2019

REPORT #: 19-75-012-029 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: 32°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	11.0%	130.8	96.0%
LOCATION:	Station #143+26			
2	12"/ 44.0" BFG	10.6%	129.9	95.3%
LOCATION:	Station #143+51			
3	12"/ 44.0" BFG	9.9%	130.3	95.6%
LOCATION:	Station #143+76			
4	12"/ 44.0" BFG	11.1%	131.0	96.1%
LOCATION:	Station #144+01			
5	12"/ 44.0" BFG	10.1%	130.9	96.0%
LOCATION:	Station #144+26			
6	12"/ 44.0" BFG	9.8%	130.4	95.7%
LOCATION:	Station #144+51			
7	12"/ 44.0" BFG	8.8%	131.0	96.1%
LOCATION:	Station #144+76			
8	12"/ 44.0" BFG	9.2%	130.2	95.5%
LOCATION:	Station #145+01			

REMARKS: BFG - Below Finish Grade
 Crew Finished at Station #145+38



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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	12"/ 32.0" BFG	8.8%	131.2	96.3%
LOCATION:	Station #143+26			
10	12"/ 32.0" BFG	8.4%	131.0	96.1%
LOCATION:	Station #143+51			
11	12"/ 32.0" BFG	9.1%	130.7	95.9%
LOCATION:	Station #143+76			
12	12"/ 32.0" BFG	10.0%	132.0	96.8%
LOCATION:	Station #144+01			
13	12"/ 32.0" BFG	9.4%	131.8	96.7%
LOCATION:	Station #144+26			
14	12"/ 32.0" BFG	8.9%	131.3	96.3%
LOCATION:	Station #144+51			
15	12"/ 32.0" BFG	7.7%	131.4	96.4%
LOCATION:	Station #144+76			
16	12"/ 32.0" BFG	7.4%	132.4	97.1%
LOCATION:	Station #145+01			

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	12"/ 20.0" BFG	7.0%	132.4	97.1%
LOCATION:	Station #143+26			
18	12"/ 20.0" BFG	7.2%	131.2	96.3%
LOCATION:	Station #143+51			
19	12"/ 20.0" BFG	6.9%	131.4	96.4%
LOCATION:	Station #143+76			
20	12"/ 20.0" BFG	8.1%	131.3	96.3%
LOCATION:	Station #144+01			
21	12"/ 20.0" BFG	8.4%	130.5	95.7%
LOCATION:	Station #144+26			
22	12"/ 20.0" BFG	7.5%	130.5	95.7%
LOCATION:	Station #144+51			
23	12"/ 20.0" BFG	7.3%	131.1	96.2%
LOCATION:	Station #144+76			
24	12"/ 20.0" BFG	9.0%	132.4	97.1%
LOCATION:	Station #145+01			

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Field Rep: Stephen Sturges
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 32°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	5.5%	136.7	98.4%
LOCATION: Station #143+26				
26	8"/ 12.0" BFG	3.4%	136.0	97.9%
LOCATION: Station #143+51				
27	8"/ 12.0" BFG	2.9%	135.5	97.6%
LOCATION: Station #143+76				
28	8"/ 12.0" BFG	5.0%	135.6	97.6%
LOCATION: Station #144+01				
29	8"/ 12.0" BFG	5.6%	134.0	96.5%
LOCATION: Station #144+26				
30	8"/ 12.0" BFG	6.0%	134.8	97.0%
LOCATION: Station #144+51				
31	8"/ 12.0" BFG	5.7%	135.0	97.2%
LOCATION: Station #144+76				
32	8"/ 12.0" BFG	4.4%	135.2	97.3%
LOCATION: Station #145+01				

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Soil Type: Light Gray Gravel w/ Silt & Sand (1.5" Gravel)
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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 (%)
33	8" / 4.0" BFG	2.9%	135.6	97.6%
LOCATION:	Station #143+26			
34	8" / 4.0" BFG	4.4%	136.2	98.1%
LOCATION:	Station #143+51			
35	8" / 4.0" BFG	5.2%	137.0	98.6%
LOCATION:	Station #143+76			
36	8" / 4.0" BFG	6.0%	137.1	98.7%
LOCATION:	Station #144+01			
37	8" / 4.0" BFG	4.9%	137.9	99.3%
LOCATION:	Station #144+26			
38	8" / 4.0" BFG	5.8%	136.7	98.4%
LOCATION:	Station #144+51			
39	8" / 4.0" BFG	6.3%	137.0	98.6%
LOCATION:	Station #144+76			
40	8" / 4.0" BFG	5.0%	136.5	98.3%
LOCATION:	Station #145+01			

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Gauge Type: Troxler 3430

Required Compaction: 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
41	12"/ 44.0" BFG	7.9%	130.9	96.0%
LOCATION:	Station #145+26			
42	12"/ 32.0" BFG	8.8%	131.3	96.3%
LOCATION:	Station #145+51			
43	12"/ 20.0" BFG	8.5%	131.8	96.7%
LOCATION:	Station #145+76			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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41	8"/ 12.0" BFG	6.0%	136.1	98.0%
LOCATION:	Station #145+26			
42	8"/ 4.0" BFG	5.6%	136.3	98.1%
LOCATION:	Station #145+26			
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