



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 14, 2019

REPORT #: 19-75-012-034 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: 30°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	9.4%	133.1	97.7%
LOCATION:	Station #151+51			
2	12"/ 44.0" BFG	9.9%	130.1	95.5%
LOCATION:	Station #151+76			
3	12"/ 44.0" BFG	8.8%	130.4	95.7%
LOCATION:	Station #152+01			
4	12"/ 44.0" BFG	8.7%	131.0	96.1%
LOCATION:	Station #152+26			
5	12"/ 44.0" BFG	9.1%	132.0	96.8%
LOCATION:	Station #152+51			
6	12"/ 44.0" BFG	9.2%	131.4	96.4%
LOCATION:	Station #152+76			
7	12"/ 44.0" BFG	10.0%	131.1	96.2%
LOCATION:	Station #153+01			
8	12"/ 44.0" BFG	8.7%	132.1	96.9%
LOCATION:	Station #153+26			

REMARKS: BFG - Below Finish Grade
 Crew Finished at Station #153+47



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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	12"/ 32.0" BFG	9.0%	132.4	97.1%
LOCATION:	Station #151+51			
10	12"/ 32.0" BFG	10.1%	132.8	97.4%
LOCATION:	Station #151+76			
11	12"/ 32.0" BFG	10.3%	131.3	96.3%
LOCATION:	Station #152+01			
12	12"/ 32.0" BFG	8.9%	131.0	96.1%
LOCATION:	Station #152+26			
13	12"/ 32.0" BFG	8.4%	129.7	95.2%
LOCATION:	Station #152+51			
14	12"/ 32.0" BFG	9.4%	130.1	95.5%
LOCATION:	Station #152+76			
15	12"/ 32.0" BFG	9.5%	130.7	95.9%
LOCATION:	Station #153+01			
16	12"/ 32.0" BFG	9.5%	130.9	96.0%
LOCATION:	Station #153+26			

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	12"/ 20.0" BFG	10.2%	132.3	97.1%
LOCATION:	Station #151+51			
18	12"/ 20.0" BFG	9.4%	129.9	95.3%
LOCATION:	Station #151+76			
19	12"/ 20.0" BFG	11.0%	130.1	95.5%
LOCATION:	Station #152+01			
20	12"/ 20.0" BFG	9.9%	130.4	95.7%
LOCATION:	Station #152+26			
21	12"/ 20.0" BFG	8.9%	130.6	95.8%
LOCATION:	Station #152+51			
22	12"/ 20.0" BFG	9.4%	129.5	95.0%
LOCATION:	Station #152+76			
23	12"/ 20.0" BFG	9.1%	130.4	95.7%
LOCATION:	Station #153+01			
24	12"/ 20.0" BFG	9.2%	130.6	95.8%
LOCATION:	Station #153+26			

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Field Rep: Stephen Sturges
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 30°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	3.3%	136.4	98.2%
LOCATION: Station #151+51				
26	8"/ 12.0" BFG	2.6%	135.9	97.8%
LOCATION: Station #151+76				
27	8"/ 12.0" BFG	2.4%	135.5	97.6%
LOCATION: Station #152+01				
28	8"/ 12.0" BFG	3.4%	134.9	97.1%
LOCATION: Station #152+26				
29	8"/ 12.0" BFG	3.5%	134.7	97.0%
LOCATION: Station #152+51				
30	8"/ 12.0" BFG	1.9%	135.7	97.7%
LOCATION: Station #152+76				
31	8"/ 12.0" BFG	3.8%	136.4	98.2%
LOCATION: Station #153+01				
32	8"/ 12.0" BFG	3.7%	136.2	98.1%
LOCATION: Station #153+26				

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
33	8" / 4.0" BFG	3.4%	134.4	96.8%
LOCATION:	Station #151+51			
34	8" / 4.0" BFG	5.4%	135.1	97.3%
LOCATION:	Station #151+76			
35	8" / 4.0" BFG	3.2%	135.4	97.5%
LOCATION:	Station #152+01			
36	8" / 4.0" BFG	4.4%	136.7	98.4%
LOCATION:	Station #152+26			
37	8" / 4.0" BFG	2.5%	135.6	97.6%
LOCATION:	Station #152+51			
38	8" / 4.0" BFG	2.5%	135.0	97.2%
LOCATION:	Station #152+76			
39	8" / 4.0" BFG	2.9%	134.4	96.8%
LOCATION:	Station #153+01			
40	8" / 4.0" BFG	2.3%	136.8	98.5%
LOCATION:	Station #153+26			

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