



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 20, 2019

REPORT #: 19-75-012-016 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: 50°F

Weather: Rain/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	10"/ 44.0" BFG	8.0%	132.0	96.8%
LOCATION: Station #123+01				
2	10"/ 44.0" BFG	9.3%	133.2	97.7%
LOCATION: Station #123+26				
3	10"/ 44.0" BFG	8.0%	132.8	97.4%
LOCATION: Station #123+51				
4	10"/44.0" BFG	9.1%	133.1	97.7%
LOCATION: Station #123+76				
5	10"/ 44.0" BFG	7.7%	130.0	95.4%
LOCATION: Station #124+01				
6	10"/ 44.0" BFG	7.9%	133.4	97.9%
LOCATION: Station #124+26				
7	10"/ 44.0" BFG	8.4%	132.8	97.4%
LOCATION: Station #124+51				
8	10"/ 44.0" BFG	8.8%	132.6	97.3%
LOCATION: Station #124+76				

REMARKS: BFG - Below Finish Grade

Crew Finished at Station #122+94



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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	12"/ 32.0" BFG	7.7%	134.0	98.3%
LOCATION: Station #123+01				
10	12"/ 32.0" BFG	7.2%	133.3	97.8%
LOCATION: Station #123+26				
11	12"/ 32.0" BFG	8.3%	133.7	98.1%
LOCATION: Station #123+51				
12	12"/32.0" BFG	8.5%	131.8	96.7%
LOCATION: Station #123+76				
13	12"/ 32.0" BFG	9.0%	132.9	97.5%
LOCATION: Station #124+01				
14	12"/ 32.0" BFG	8.3%	132.7	97.4%
LOCATION: Station #124+26				
15	12"/ 32.0" BFG	7.4%	133.0	97.6%
LOCATION: Station #124+51				
16	12"/ 32.0" BFG	7.0%	132.4	97.1%
LOCATION: Station #124+76				

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	12"/ 20.0" BFG	8.9%	133.3	97.8%
LOCATION: Station #123+01				
18	12"/ 20.0" BFG	8.1%	133.7	98.1%
LOCATION: Station #123+26				
19	12"/ 20.0" BFG	9.2%	131.5	96.5%
LOCATION: Station #123+51				
20	12"/20.0" BFG	10.1%	131.9	96.8%
LOCATION: Station #123+76				
21	12"/ 20.0" BFG	7.6%	132.4	97.1%
LOCATION: Station #124+01				
22	12"/ 20.0" BFG	7.9%	131.0	96.1%
LOCATION: Station #124+26				
23	12"/ 20.0" BFG	8.2%	132.7	97.4%
LOCATION: Station #124+51				
24	12"/ 20.0" BFG	7.6%	131.8	96.7%
LOCATION: Station #124+76				

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Earthwork Contractor: Ludlow Construction Co., Inc.

Air Temp: 50°F

Weather: Rain/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	4.5%	135.6	97.6%
LOCATION: Station #123+01				
26	8"/ 12.0" BFG	5.3%	135.8	97.8%
LOCATION: Station #123+26				
27	8"/ 12.0" BFG	3.3%	136.1	98.0%
LOCATION: Station #123+51				
28	8"/ 12.0" BFG	3.9%	136.4	98.2%
LOCATION: Station #123+76				
29	8"/ 12.0" BFG	4.1%	135.0	97.2%
LOCATION: Station #124+01				
30	8"/ 12.0" BFG	4.0%	134.8	97.0%
LOCATION: Station #124+26				
31	8"/ 12.0" BFG	6.0%	135.4	97.5%
LOCATION: Station #124+51				
32	8"/ 12.0" BFG	2.9%	135.9	97.8%
LOCATION: Station #124+76				

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
33	8"/ 4.0" BFG	3.1%	135.2	97.3%
LOCATION: Station #123+01				
34	8"/ 4.0" BFG	4.2%	134.7	97.0%
LOCATION: Station #123+26				
35	8"/ 4.0" BFG	4.3%	136.1	98.0%
LOCATION: Station #123+51				
36	8"/ 4.0" BFG	3.7%	135.5	97.6%
LOCATION: Station #123+76				
37	8"/ 4.0" BFG	2.8%	134.9	97.1%
LOCATION: Station #124+01				
38	8"/ 4.0" BFG	2.7%	133.8	96.3%
LOCATION: Station #124+26				
39	8"/ 4.0" BFG	3.0%	134.0	96.5%
LOCATION: Station #124+51				
40	8"/ 4.0" BFG	3.4%	134.7	97.0%
LOCATION: Station #124+76				

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