



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: September 10, 2019

REPORT #: 19-75-012-002 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: 58°F
Weather: Night/ Clear
Soil ID#: 3519-600
Soil Type: Reddish Brown Silty Sand w/ Gravel
Proctor Sample Source: Onsite

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"/40.0" BFG	8.9%	130.1	95.5%
LOCATION:	Station #102+51			
2	10"/ 40.0" BFG	9.9%	129.8	95.2%
LOCATION:	Station #102+76			
3	10"/ 40.0" BFG	9.6%	130.8	96.0%
LOCATION:	Station #103+01			
4	10"/ 40.0" BFG	8.6%	129.7	95.2%
LOCATION:	Station #103+26			
5	10"/ 40.0" BFG	8.4%	130.2	95.5%
LOCATION:	Station #103+51			
6	10"/ 40.0" BFG	8.0%	130.7	95.9%
LOCATION:	Station #103+76			
7	10"/ 40.0" BFG	7.8%	129.1	94.7%
LOCATION:	Station #104+01			
LOCATION:				

REMARKS: BFG - Below Finish Grade (BFG - 4.0" Below Base Course for Asphalt)



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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
8	10"/ 28.0" BFG	10.0%	131.0	96.1%
LOCATION:	Station #102+51			
9	10"/ 28.0" BFG	8.8%	131.5	96.5%
LOCATION:	Station #102+76			
10	10"/ 28.0" BFG	8.3%	132.0	96.8%
LOCATION:	Station #103+01			
11	10"/ 28.0" BFG	9.5%	130.5	95.7%
LOCATION:	Station #103+26			
12	10"/ 28.0" BFG	9.2%	129.9	95.3%
LOCATION:	Station #103+51			
13	10"/ 28.0" BFG	8.4%	129.5	95.0%
LOCATION:	Station #103+76			
14	10"/ 28.0" BFG	9.1%	130.2	95.5%
LOCATION:	Station #104+01			
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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
15	10"/ 16.0" BFG	7.9%	130.8	96.0%
LOCATION:	Station #102+51			
16	10"/ 16.0" BFG	8.0%	130.3	95.6%
LOCATION:	Station #102+76			
17	10"/ 16.0" BFG	6.9%	133.1	97.7%
LOCATION:	Station #103+01			
18	10"/ 16.0" BFG	5.9%	129.5	95.0%
LOCATION:	Station #103+26			
19	10"/ 16.0" BFG	5.8%	130.4	95.7%
LOCATION:	Station #103+51			
20	10"/ 16.0" BFG	6.9%	130.6	95.8%
LOCATION:	Station #103+76			
21	10"/ 16.0" BFG	7.7%	131.3	96.3%
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Field Rep: Stephen Sturges
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 58°F
Weather: Night/ Clear
Soil ID#: 3519-608
Soil Type: Light Gray Gravel w/ Sand & Silt (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 (%)
22	6"/ 10.0" BFG	4.9%	134.0	96.5%
LOCATION:	Station #102+51			
23	6"/ 10.0" BFG	5.5%	136.7	98.4%
LOCATION:	Station #102+76			
24	6"/ 10.0" BFG	3.9%	135.9	97.8%
LOCATION:	Station #103+01			
25	6"/ 10.0" BFG	6.0%	134.4	96.8%
LOCATION:	Station #103+26			
26	6"/ 10.0" BFG	5.8%	135.1	97.3%
LOCATION:	Station #103+51			
27	6"/ 10.0" BFG	7.0%	135.9	97.8%
LOCATION:	Station #103+76			
28	6"/ 10.0" BFG	7.5%	134.4	96.8%
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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
29	10"/ 4.0" BFG	5.1%	133.0	95.8%
LOCATION:	Station #102+51			
30	10"/ 4.0" BFG	3.9%	134.3	96.7%
LOCATION:	Station #102+76			
31	10"/ 4.0" BFG	4.9%	134.1	96.5%
LOCATION:	Station #103+01			
32	10"/ 4.0" BFG	5.1%	133.2	95.9%
LOCATION:	Station #103+26			
33	10"/ 4.0" BFG	5.5%	131.9	95.0%
LOCATION:	Station #103+51			
34	10"/ 4.0" BFG	6.4%	134.0	96.5%
LOCATION:	Station #103+76			
35	10"/ 4.0" BFG	3.2%	134.7	97.0%
LOCATION:	Station #104+01			
LOCATION:				

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