



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 15, 2019

REPORT #: 19-75-012-005 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: 60°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
Gauge Type: Troxler 3430

Optimum Moisture: 6.6%
Required Compaction: 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
1	10"/40.0" BFG	9.0%	133.8	98.2%
LOCATION: Station #105+86				
2	10"/40.0" BFG	8.3%	132.0	96.8%
LOCATION: Station #106+11				
3	10"/40.0" BFG	8.9%	132.5	97.2%
LOCATION: Station #106+36				
4	10"/40.0" BFG	9.1%	133.4	97.9%
LOCATION: Station #106+61				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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

COMPACTION TESTING
SEPTEMBER 15th - 18th
2019



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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
5	10"/28.0" BFG	7.7%	131.8	96.7%
LOCATION: Station #105+86				
6	10"/ 28.0" BFG	8.0%	130.0	95.4%
LOCATION: Station #106+11				
7	10"/ 28.0" BFG	7.2%	130.9	96.0%
LOCATION: Station #106+36				
8	10"/ 28.0" BFG	8.3%	131.4	96.4%
LOCATION: Station #106+61				
LOCATION:				
LOCATION:				
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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	10"/16.0" BFG	6.6%	131.6	96.6%
LOCATION: Station #105+86				
10	10"/ 16.0" BFG	9.3%	131.1	96.2%
LOCATION: Station #106+11				
11	10"/ 16.0" BFG	7.0%	132.7	97.4%
LOCATION: Station #106+36				
12	10"/ 16.0" BFG	9.4%	133.3	97.8%
LOCATION: Station #106+61				
LOCATION:				
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Field Rep: Stephen Sturges
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 60°F
Weather: Night/ Clear
Soil ID#: 3519-608
Soil Type: Light Gray Gravel w/ Silt & Sand (1.5" minus)
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 (%)
13	6"/8.0" BFG	3.0%	133.2	95.9%
LOCATION:	Station #105+86			
14	6"/8.0" BFG	4.9%	134.8	97.0%
LOCATION:	Station #106+11			
15	6"/8.0" BFG	2.3%	134.0	96.5%
LOCATION:	Station #106+36			
16	6"/8.0" BFG	5.3%	135.3	97.4%
LOCATION:	Station #106+61			
LOCATION:				
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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	2"/4.0" BFG	2.2%	134.9	97.1%
LOCATION: Station #105+86				
18	2"/4.0" BFG	4.9%	135.8	97.8%
LOCATION: Station #106+11				
19	2"/4.0" BFG	3.3%	134.8	97.0%
LOCATION: Station #106+36				
20	2"/4.0" BFG	5.1%	136.0	97.9%
LOCATION: Station #106+61				
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