



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 27, 2019

REPORT #: 19-75-012-020A 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: 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	9.0%	132.4	97.1%
LOCATION:	Station #131+51			
2	10"/ 44.0" BFG	8.1%	133.1	97.7%
LOCATION:	Station #131+76			
3	10"/ 44.0" BFG	10.1%	133.4	97.9%
LOCATION:	Station #132+01			
4	10"/ 44.0" BFG	9.4%	132.7	97.4%
LOCATION:	Station #132+26			
5	10"/ 44.0" BFG	8.9%	131.8	96.7%
LOCATION:	Station #132+51			
6	10"/ 44.0" BFG	7.9%	132.4	97.1%
LOCATION:	Station #132+76			
7	10"/ 44.0" BFG	9.3%	131.2	96.3%
LOCATION:	Station #133+01			
LOCATION:				

REMARKS: BFG - Below Finish Grade
 Crew Finished at Station #133+22



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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
8	12"/ 32.0" BFG	7.6%	132.2	97.0%
LOCATION:	Station #131+51			
9	12"/ 32.0" BFG	8.3%	133.2	97.7%
LOCATION:	Station #131+76			
10	12"/ 32.0" BFG	9.8%	134.0	98.3%
LOCATION:	Station #132+01			
11	12"/ 32.0" BFG	9.9%	131.8	96.7%
LOCATION:	Station #132+26			
12	12"/ 32.0" BFG	9.0%	131.9	96.8%
LOCATION:	Station #132+51			
13	12"/ 32.0" BFG	8.0%	132.4	97.1%
LOCATION:	Station #132+76			
14	12"/ 32.0" BFG	8.3%	132.7	97.4%
LOCATION:	Station #133+01			
LOCATION:				

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
15	12"/ 20.0" BFG	10.2%	132.3	97.1%
LOCATION:	Station #131+51			
16	12"/ 20.0" BFG	7.5%	132.4	97.1%
LOCATION:	Station #131+76			
17	12"/ 20.0" BFG	8.8%	131.8	96.7%
LOCATION:	Station #132+01			
18	12"/ 20.0" BFG	8.3%	133.2	97.7%
LOCATION:	Station #132+26			
19	12"/ 20.0" BFG	9.4%	132.0	96.8%
LOCATION:	Station #132+51			
20	12"/ 20.0" BFG	8.0%	133.8	98.2%
LOCATION:	Station #132+76			
21	12"/ 20.0" BFG	8.1%	133.3	97.8%
LOCATION:	Station #133+01			
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" 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	8"/ 12.0" BFG	5.0%	134.5	96.8%
LOCATION:	Station #131+51			
23	8"/ 12.0" BFG	3.8%	136.0	97.9%
LOCATION:	Station #131+76			
24	8"/ 12.0" BFG	4.1%	136.3	98.1%
LOCATION:	Station #132+01			
25	8"/ 12.0" BFG	4.4%	136.1	98.0%
LOCATION:	Station #132+26			
26	8"/ 12.0" BFG	3.3%	135.9	97.8%
LOCATION:	Station #132+51			
27	8"/ 12.0" BFG	3.8%	135.8	97.8%
LOCATION:	Station #132+76			
28	8"/ 12.0" BFG	4.4%	136.8	98.5%
LOCATION:	Station #133+01			
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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 (%)
29	8" / 4.0" BFG	2.2%	134.9	97.1%
LOCATION:	Station #131+51			
30	8" / 4.0" BFG	2.9%	135.3	97.4%
LOCATION:	Station #131+76			
31	8" / 4.0" BFG	3.4%	135.5	97.6%
LOCATION:	Station #132+01			
32	8" / 4.0" BFG	1.8%	136.8	98.5%
LOCATION:	Station #132+26			
33	8" / 4.0" BFG	4.0%	135.9	97.8%
LOCATION:	Station #132+51			
34	8" / 4.0" BFG	3.0%	136.3	98.1%
LOCATION:	Station #132+76			
35	8" / 4.0" BFG	2.7%	136.1	98.0%
LOCATION:	Station #133+01			
LOCATION:				

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 Crew Finished at Station #133+22