



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 1, 2019

REPORT #: 19-75-012-008 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

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%	130.4	95.7%
LOCATION:	Station #107+61			
2	10"/ 44.0" BFG	8.8%	130.1	95.5%
LOCATION:	Station #107+86			
3	10"/ 44.0" BFG	6.6%	131.0	96.1%
LOCATION:	Station #108+11			
4	10"/ 44.0" BFG	7.4%	130.7	95.9%
LOCATION:	Station #108+36			
5	10"/ 44.0" BFG	7.0%	131.4	96.4%
LOCATION:	Station #108+61			
6	10"/ 44.0" BFG	8.8%	132.0	96.8%
LOCATION:	Station #108+86			
7	10"/ 44.0" BFG	9.1%	130.7	95.9%
LOCATION:	Station #109+11			
8	10"/ 44.0" BFG	8.0%	130.9	96.0%
LOCATION:	Station #109+36			

REMARKS: Crew finished at Station #109+49



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Gauge Type: Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	10"/32.0" BFG	9.0%	132.2	97.0%
LOCATION:	Station #107+61			
10	10"/ 32.0" BFG	8.8%	131.0	96.1%
LOCATION:	Station #107+86			
11	10"/ 32.0" BFG	8.2%	132.0	96.8%
LOCATION:	Station #108+11			
12	10"/ 32.0" BFG	9.4%	132.3	97.1%
LOCATION:	Station #108+36			
13	10"/ 32.0" BFG	9.9%	132.8	97.4%
LOCATION:	Station #108+61			
14	10"/ 32.0" BFG	8.0%	130.9	96.0%
LOCATION:	Station #108+86			
15	10"/ 32.0" BFG	7.8%	130.4	95.7%
LOCATION:	Station #109+11			
16	10"/ 32.0" BFG	8.4%	130.1	95.5%
LOCATION:	Station #109+36			

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	10"/20.0" BFG	12.0%	129.9	95.3%
LOCATION:	Station #107+61			
18	10"/ 20.0" BFG	11.1%	130.2	95.5%
LOCATION:	Station #107+86			
19	10"/ 20.0" BFG	9.9%	130.8	96.0%
LOCATION:	Station #108+11			
20	10"/ 20.0" BFG	9.5%	129.7	95.2%
LOCATION:	Station #108+36			
21	10"/ 20.0" BFG	10.2%	131.3	96.3%
LOCATION:	Station #108+61			
22	10"/ 20.0" BFG	8.8%	131.1	96.2%
LOCATION:	Station #108+86			
23	10"/ 20.0" BFG	9.7%	130.0	95.4%
LOCATION:	Station #109+11			
24	10"/ 20.0" BFG	11.1%	130.1	95.5%
LOCATION:	Station #109+36			

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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 (%)
25	8"/ 12.0" BFG	5.0%	136.8	98.5%
LOCATION: Station #107+61				
26	8"/ 12.0" BFG	7.2%	135.5	97.6%
LOCATION: Station #107+86				
27	8"/ 12.0" BFG	2.3%	135.8	97.8%
LOCATION: Station #108+11				
28	8"/ 12.0" BFG	6.6%	134.8	97.0%
LOCATION: Station #108+36				
29	8"/ 12.0" BFG	4.9%	134.0	96.5%
LOCATION: Station #108+61				
30	8"/ 12.0" BFG	5.4%	134.6	96.9%
LOCATION: Station #108+86				
31	8"/ 12.0" BFG	3.7%	135.0	97.2%
LOCATION: Station #109+11				
32	8"/ 12.0" BFG	7.0%	135.3	97.4%
LOCATION: Station #109+36				

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
33	8" / 4.0" BFG	9.0%	136.0	97.9%
LOCATION:	Station #107+61			
34	8" / 4.0" BFG	9.6%	135.9	97.8%
LOCATION:	Station #107+86			
35	8" / 4.0" BFG	8.9%	134.8	97.0%
LOCATION:	Station #108+11			
36	8" / 4.0" BFG	7.7%	135.5	97.6%
LOCATION:	Station #108+36			
37	8" / 4.0" BFG	8.0%	134.8	97.0%
LOCATION:	Station #108+61			
38	8" / 4.0" BFG	8.4%	135.1	97.3%
LOCATION:	Station #108+86			
39	8" / 4.0" BFG	9.4%	134.8	97.0%
LOCATION:	Station #109+11			
40	8" / 4.0" BFG	7.0%	134.0	96.5%
LOCATION:	Station #109+36			

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