



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 6, 2019

REPORT #: 19-75-012-010 Page 1 of 7

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/ Mist
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	12.0%	130.7	95.9%
LOCATION:	Station #111+88			
2	10"/ 44.0" BFG	11.1%	131.1	96.2%
LOCATION:	Station #112+13			
3	10"/ 44.0" BFG	10.0%	130.3	95.6%
LOCATION:	Station #112+38			
4	10"/ 44.0" BFG	9.6%	130.6	95.8%
LOCATION:	Station #112+63			
5	10"/ 44.0" BFG	9.7%	131.3	96.3%
LOCATION:	Station #112+88			
6	10"/ 44.0" BFG	10.6%	130.8	96.0%
LOCATION:	Station #113+13			
7	10"/ 44.0" BFG	8.8%	130.1	95.5%
LOCATION:	Station #113+38			
8	10"/ 44.0" BFG	8.3%	130.9	96.0%
LOCATION:	Station #113+63			

REMARKS: Crew finished at Station #113+88
 BFG - Below Finish Grade



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Required Compaction: 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	10"/32.0" BFG	9.0%	129.9	95.3%
LOCATION:	Station #111+88			
10	10"/ 32.0" BFG	10.7%	132.0	96.8%
LOCATION:	Station #112+13			
11	10"/ 32.0" BFG	8.6%	132.5	97.2%
LOCATION:	Station #112+38			
12	10"/ 32.0" BFG	8.3%	131.0	96.1%
LOCATION:	Station #112+63			
13	10"/ 32.0" BFG	9.3%	131.8	96.7%
LOCATION:	Station #112+88			
14	10"/ 32.0" BFG	7.7%	131.4	96.4%
LOCATION:	Station #113+13			
15	10"/ 32.0" BFG	8.0%	129.8	95.2%
LOCATION:	Station #113+38			
16	10"/ 32.0" BFG	8.3%	131.9	96.8%
LOCATION:	Station #113+63			

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	10"/20.0" BFG	9.0%	133.0	97.6%
LOCATION:	Station #111+88			
18	10"/ 20.0" BFG	10.7%	132.7	97.4%
LOCATION:	Station #112+13			
19	10"/ 20.0" BFG	8.6%	132.4	97.1%
LOCATION:	Station #112+38			
20	10"/ 20.0" BFG	7.7%	132.0	96.8%
LOCATION:	Station #112+63			
21	10"/ 20.0" BFG	7.1%	131.1	96.2%
LOCATION:	Station #112+88			
22	10"/ 20.0" BFG	6.9%	130.3	95.6%
LOCATION:	Station #113+13			
23	10"/ 20.0" BFG	7.4%	130.4	95.7%
LOCATION:	Station #113+38			
24	10"/ 20.0" BFG	7.6%	130.7	95.9%
LOCATION:	Station #113+63			

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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/ Mist
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	4.0%	135.0	97.2%
LOCATION: Station #111+88				
26	8"/ 12.0" BFG	3.8%	136.1	98.0%
LOCATION: Station #112+13				
27	8"/ 12.0" BFG	4.1%	135.9	97.8%
LOCATION: Station #112+38				
28	8"/ 12.0" BFG	2.7%	137.0	98.6%
LOCATION: Station #112+63				
29	8"/ 12.0" BFG	2.3%	136.7	98.4%
LOCATION: Station #112+88				
30	8"/ 12.0" BFG	1.9%	136.6	98.3%
LOCATION: Station #113+13				
31	8"/ 12.0" BFG	2.8%	135.8	97.8%
LOCATION: Station #113+38				
32	8"/ 12.0" BFG	3.6%	136.2	98.1%
LOCATION: Station #113+63				

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Air Temp: 60°F
Weather: Night/ Mist
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 (%)
33	8" / 4.0" BFG	1.8%	134.9	97.1%
LOCATION:	Station #111+88			
34	8" / 4.0" BFG	2.2%	135.1	97.3%
LOCATION:	Station #112+13			
35	8" / 4.0" BFG	2.4%	135.3	97.4%
LOCATION:	Station #112+38			
36	8" / 4.0" BFG	2.7%	136.3	98.1%
LOCATION:	Station #112+63			
37	8" / 4.0" BFG	3.1%	135.5	97.6%
LOCATION:	Station #112+88			
38	8" / 4.0" BFG	3.4%	136.6	98.3%
LOCATION:	Station #113+13			
39	8" / 4.0" BFG	1.9%	135.8	97.8%
LOCATION:	Station #113+38			
40	8" / 4.0" BFG	2.0%	135.0	97.2%
LOCATION:	Station #113+63			

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
41	10"/44.0" BFG	7.9%	131.9	96.8%
LOCATION:	Station #113+88			
42	10"/ 32.0" BFG	8.0%	132.0	96.8%
LOCATION:	Station #113+88			
43	10"/ 20.0" BFG	9.2%	132.7	97.4%
LOCATION:	Station #113+88			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
44	8"/ 12.0" BFG	2.0%	137.0	98.6%
LOCATION:	Station #113+88			
45	8"/ 4.0" BFG	1.6%	136.5	98.3%
LOCATION:	Station #113+88			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

REMARKS: Crew finished at Station #112+00
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