



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 24, 2019

REPORT #: 19-75-012-020 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: 55°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	8.1%	131.9	96.8%
LOCATION: Station #129+01				
2	10"/ 44.0" BFG	7.6%	132.1	96.9%
LOCATION: Station #129+26				
3	10"/ 44.0" BFG	9.0%	132.4	97.1%
LOCATION: Station #129+51				
4	10"/ 44.0" BFG	8.6%	132.8	97.4%
LOCATION: Station #129+76				
5	10"/ 44.0" BFG	8.1%	133.0	97.6%
LOCATION: Station #130+01				
6	10"/ 44.0" BFG	7.7%	131.7	96.6%
LOCATION: Station #130+26				
7	10"/ 44.0" BFG	7.8%	133.1	97.7%
LOCATION: Station #130+51				
8	10"/ 44.0" BFG	7.3%	132.2	97.0%
LOCATION: Station #130+76				

REMARKS: BFG - Below Finish Grade
 Crew Finished at Station #131+35



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 24, 2019

REPORT #: 19-75-012-020 Page 2 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: 55°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 (%)
9	12"/ 32.0" BFG	9.5%	131.3	96.3%
LOCATION:	Station #129+01			
10	12"/ 32.0" BFG	8.8%	133.4	97.9%
LOCATION:	Station #129+26			
11	12"/ 32.0" BFG	8.7%	133.3	97.8%
LOCATION:	Station #129+51			
12	12"/ 32.0" BFG	7.7%	134.0	98.3%
LOCATION:	Station #129+76			
13	12"/ 32.0" BFG	8.0%	132.8	97.4%
LOCATION:	Station #130+01			
14	12"/ 32.0" BFG	9.0%	131.9	96.8%
LOCATION:	Station #130+26			
15	12"/ 32.0" BFG	7.9%	131.3	96.3%
LOCATION:	Station #130+51			
16	12"/ 32.0" BFG	9.1%	131.1	96.2%
LOCATION:	Station #130+76			

REMARKS: BFG - Below Finish Grade
Crew Finished at Station #131+35



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 24, 2019

REPORT #: 19-75-012-020 Page 3 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: 55°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 (%)
17	12"/ 20.0" BFG	8.8%	131.8	96.7%
LOCATION:	Station #129+01			
18	12"/ 20.0" BFG	8.7%	132.4	97.1%
LOCATION:	Station #129+26			
19	12"/ 20.0" BFG	7.9%	132.8	97.4%
LOCATION:	Station #129+51			
20	12"/ 20.0" BFG	8.0%	133.0	97.6%
LOCATION:	Station #129+76			
21	12"/ 20.0" BFG	9.0%	133.1	97.7%
LOCATION:	Station #130+01			
22	12"/ 20.0" BFG	8.6%	132.7	97.4%
LOCATION:	Station #130+26			
23	12"/ 20.0" BFG	7.8%	132.6	97.3%
LOCATION:	Station #130+51			
24	12"/ 20.0" BFG	8.1%	131.6	96.6%
LOCATION:	Station #130+76			

REMARKS: BFG - Below Finish Grade
 Crew Finished at Station #131+35



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 24, 2019

REPORT #: 19-75-012-020 Page 4 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: 55°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	2.9%	134.4	96.8%
LOCATION: Station #129+01				
26	8"/ 12.0" BFG	4.0%	134.0	96.5%
LOCATION: Station #129+26				
27	8"/ 12.0" BFG	4.4%	133.8	96.3%
LOCATION: Station #129+51				
28	8"/ 12.0" BFG	3.8%	133.9	96.4%
LOCATION: Station #129+76				
29	8"/ 12.0" BFG	3.9%	134.1	96.5%
LOCATION: Station #130+01				
30	8"/ 12.0" BFG	4.0%	134.0	96.5%
LOCATION: Station #130+26				
31	8"/ 12.0" BFG	3.3%	133.5	96.1%
LOCATION: Station #130+51				
32	8"/ 12.0" BFG	3.5%	133.8	96.3%
LOCATION: Station #130+76				

REMARKS: BFG - Below Finish Grade
 Crew Finished at Station #131+35



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 24, 2019

REPORT #: 19-75-012-020 Page 5 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: 55°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 (%)
33	8" / 4.0" BFG	3.2%	134.3	96.7%
LOCATION:	Station #129+01			
34	8" / 4.0" BFG	3.4%	133.8	96.3%
LOCATION:	Station #129+26			
35	8" / 4.0" BFG	3.2%	132.9	95.7%
LOCATION:	Station #129+51			
36	8" / 4.0" BFG	2.8%	133.0	95.8%
LOCATION:	Station #129+76			
37	8" / 4.0" BFG	4.0%	132.8	95.6%
LOCATION:	Station #130+01			
38	8" / 4.0" BFG	3.0%	133.4	96.0%
LOCATION:	Station #130+26			
39	8" / 4.0" BFG	2.8%	133.9	96.4%
LOCATION:	Station #130+51			
40	8" / 4.0" BFG	2.9%	134.0	96.5%
LOCATION:	Station #130+76			

REMARKS: BFG - Below Finish Grade
 Crew Finished at Station #131+35



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 24, 2019

REPORT #: 19-75-012-020 Page 6 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: 55°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 (%)
41	10"/ 44.0" BFG	8.1%	131.9	96.8%
LOCATION:	Station #131+01			
42	10"/ 44.0" BFG	7.6%	132.1	96.9%
LOCATION:	Station #131+26			
43	12"/ 32.0" BFG	8.0%	132.8	97.4%
LOCATION:	Station #131+01			
44	12"/ 32.0" BFG	8.8%	131.9	96.8%
LOCATION:	Station #131+26			
45	12"/ 20.0" BFG	8.3%	132.0	96.8%
LOCATION:	Station #131+01			
46	12"/ 20.0" BFG	9.0%	132.3	97.1%
LOCATION:	Station #131+26			
LOCATION:				
LOCATION:				
LOCATION:				

REMARKS: Crew Finished at Station #131+35



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 24, 2019

REPORT #: 19-75-012-020 Page 7 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: 55°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 (%)
47	8"/ 12.0" BFG	2.9%	134.0	96.5%
LOCATION:	Station #131+01			
48	8"/ 12.0" BFG	4.0%	132.8	95.6%
LOCATION:	Station #131+26			
49	8"/ 4.0" BFG	2.0%	133.0	95.8%
LOCATION:	Station #131+01			
50	8"/ 4.0" BFG	2.9%	132.8	95.6%
LOCATION:	Station #131+26			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

REMARKS: Crew Finished at Station #131+35