



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: November 12, 2019

REPORT #: 19-75-012-032 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: 18°F
Weather: Night
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	12"/ 44.0" BFG	9.0%	130.1	95.5%
LOCATION:	Station #147+76			
2	12"/ 44.0" BFG	9.2%	131.0	96.1%
LOCATION:	Station #148+01			
3	12"/ 44.0" BFG	8.7%	131.4	96.4%
LOCATION:	Station #148+26			
4	12"/ 44.0" BFG	9.6%	132.0	96.8%
LOCATION:	Station #148+51			
5	12"/ 44.0" BFG	8.8%	132.1	96.9%
LOCATION:	Station #148+76			
6	12"/ 44.0" BFG	8.7%	130.8	96.0%
LOCATION:	Station #149+01			
7	12"/ 44.0" BFG	9.2%	132.0	96.8%
LOCATION:	Station #149+26			
8	12"/ 44.0" BFG	9.4%	132.4	97.1%
LOCATION:	Station #149+51			

REMARKS: BFG - Below Finish Grade
 Crew Finished at Station #149+65



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: November 12, 2019

REPORT #: 19-75-012-032 Page 2 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: 18°F
Weather: Night
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	8.3%	132.4	97.1%
LOCATION:	Station #147+76			
10	12"/ 32.0" BFG	8.4%	132.7	97.4%
LOCATION:	Station #148+01			
11	12"/ 32.0" BFG	7.8%	133.0	97.6%
LOCATION:	Station #148+26			
12	12"/ 32.0" BFG	7.0%	132.2	97.0%
LOCATION:	Station #148+51			
13	12"/ 32.0" BFG	7.9%	131.6	96.6%
LOCATION:	Station #148+76			
14	12"/ 32.0" BFG	8.3%	132.5	97.2%
LOCATION:	Station #149+01			
15	12"/ 32.0" BFG	8.1%	132.6	97.3%
LOCATION:	Station #149+26			
16	12"/ 32.0" BFG	9.0%	130.1	95.5%
LOCATION:	Station #149+51			

REMARKS: BFG - Below Finish Grade
 Crew Finished at Station #149+65



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: November 12, 2019

REPORT #: 19-75-012-032 Page 3 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: 18°F
Weather: Night
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	8.5%	132.5	97.2%
LOCATION:	Station #147+76			
18	12"/ 20.0" BFG	7.5%	132.4	97.1%
LOCATION:	Station #148+01			
19	12"/ 20.0" BFG	7.4%	133.3	97.8%
LOCATION:	Station #148+26			
20	12"/ 20.0" BFG	7.7%	133.2	97.7%
LOCATION:	Station #148+51			
21	12"/ 20.0" BFG	6.9%	132.2	97.0%
LOCATION:	Station #148+76			
22	12"/ 20.0" BFG	7.4%	132.8	97.4%
LOCATION:	Station #149+01			
23	12"/ 20.0" BFG	7.7%	131.9	96.8%
LOCATION:	Station #149+26			
24	12"/ 20.0" BFG	8.0%	132.0	96.8%
LOCATION:	Station #149+51			

REMARKS: BFG - Below Finish Grade
 Crew Finished at Station #149+65



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: November 12, 2019

REPORT #: 19-75-012-032 Page 4 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: 18°F
Weather: Night
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	4.4%	134.0	96.5%
LOCATION:	Station #147+76			
26	8"/ 12.0" BFG	3.9%	135.3	97.4%
LOCATION:	Station #148+01			
27	8"/ 12.0" BFG	4.8%	135.0	97.2%
LOCATION:	Station #148+26			
28	8"/ 12.0" BFG	4.1%	136.0	97.9%
LOCATION:	Station #148+51			
29	8"/ 12.0" BFG	3.4%	136.7	98.4%
LOCATION:	Station #148+76			
30	8"/ 12.0" BFG	5.0%	136.1	98.0%
LOCATION:	Station #149+01			
31	8"/ 12.0" BFG	4.9%	135.8	97.8%
LOCATION:	Station #149+26			
32	8"/ 12.0" BFG	3.3%	135.8	97.8%
LOCATION:	Station #149+51			

REMARKS: BFG - Below Finish Grade
 Crew Finished at Station #149+65



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: November 12, 2019

REPORT #: 19-75-012-032 Page 5 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: 18°F
Weather: Night
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%	137.0	98.6%
LOCATION:	Station #147+76			
34	8" / 4.0" BFG	3.5%	136.6	98.3%
LOCATION:	Station #148+01			
35	8" / 4.0" BFG	4.0%	135.8	97.8%
LOCATION:	Station #148+26			
36	8" / 4.0" BFG	3.1%	136.3	98.1%
LOCATION:	Station #148+51			
37	8" / 4.0" BFG	2.9%	136.8	98.5%
LOCATION:	Station #148+76			
38	8" / 4.0" BFG	4.9%	136.0	97.9%
LOCATION:	Station #149+01			
39	8" / 4.0" BFG	5.2%	135.4	97.5%
LOCATION:	Station #149+26			
40	8" / 4.0" BFG	4.4%	135.9	97.8%
LOCATION:	Station #149+51			

REMARKS: BFG - Below Finish Grade
 Crew Finished at Station #149+65