

# APPENDIX E

Soil Boring and Test Data Results  
By Van Cleef Engineering

**CERTIFIED ENGINEERING OF NJ.**

ROUTE:	LOCAL NAME: Forest View Estates, Mendham Township, NJ	BORING NO. FIELD
SECTION:	COORDINATES:	SOIL LOG NO: SL-1
STATION:	OFFSET: REFERENCE LINE: Mountainside Avenue	GROUND ELEVATION: 159.9

BORING BY: CE of NJ.	DATE STARTED: 9/18/2019	GROUND WATER ELEVATION	Date:
INSPECTOR: A. Morteza	DATE COMPLETED: 9/18/2019	0 Hr.	Date:
		24 Hr.	

DEPTH (ft)	CASING BLOWS	SAMPLE NO.	DEPTH (ft)	Blows on Spoon				REC. (Inches)	SOIL DESCRIPTION AND STRATIFICATION	(ft)
				0 - 6"	6" - 12"	12"-18"	18 - 24"			
0.5			0.5						0-6": Top Soil	0.5
3.2									6" to 38": Stone with Gravel, Light to Brown Sandy Loam 10R6/3	3.2
4									38" to 72": 4" to 6" cobbles, Sandy Loam 10R5/3 Brown Color Nor Refusal No Water	6
6										
10										
15										
20										
25										
30										
35										
40										

Nominal I.D. of Drive Pipe/Hollow Stem Auger	4 in.
Nominal I.D. of Split Barrel Sampler	1 3/8 in.
Weight of Hammer on Drive Pipe	300 lbs.
Weight of Hammer on Split Barrel Sampler	140 lbs Automatic
Drop of Hammer on Drive Pipe	24 in.
Drop of Hammer on Split Barrel Sampler	30 in.
Core Size	

The subsurface information shown hereon was obtained for the Owner's design and estimate purposes. It is made available to authorized users only that they may have access to the same information available to the Owner. It is presented in good faith, but is not intended as a substitute for investigations, interpretation or judgement of such authorized users.

Approximate Change in Strata \_\_\_\_\_  
 Inferred Change in Strata \_\_\_\_\_

Soil descriptions represent a field identification after D.M. Burmister unless otherwise noted.

**CERTIFIED ENGINEERING OF NJ.**

ROUTE:	LOCAL NAME: Forest View Estates, Mendham Township, NJ	BORING NO. FIELD
SECTION:	COORDINATES:	SOIL LOG NO: SL-1
STATION:	OFFSET: REFERENCE LINE: Mountainside Avenue	GROUND ELEVATION:

BORING BY: CE of NJ.	DATE STARTED: 6/8/2019	GROUND WATER ELEVATION Date: July 8, 2019
INSPECTOR: A. Moralez	DATE COMPLETED: 6/8/2019	0 Hr. 24 Hr.

DEPTH (ft)	CASING BLOWS	SAMPLE NO.	DEPTH (ft)	Blows on Spoon				REC. (Inches)	SOIL DESCRIPTION AND STRATIFICATION	(ft)
				0 - 6"	6" - 12"	12"-18"	18 - 24"			
0.5									0.5	
3.2								0-6": Top Soil		
4								6" to 38": Stone with Gravel, Light to Brown Sandy Loam 10R-6/3	3.2	
6								38" to 72": 4" to 6" Cobsles, Sandy Loam 10R-5/3 Brown Color No Refusal No Water	6	
10										
15										
20										
25										
30										
35										
40										

Nominal I.D. of Drive Pipe/Hollow Stem Auger	4 in.
Nominal I.D. of Split Barrel Sampler	1 3/8 in.
Weight of Hammer on Drive Pipe	300 lbs.
Weight of Hammer on Split Barrel Sampler	140 lbs Automatic
Drop of Hammer on Drive Pipe	24 in.
Drop of Hammer on Split Barrel Sampler	30 in.
Core Size	

The subsurface information shown hereon was obtained for the Owner's design and estimate purposes. It is made available to authorized users only that they may have access to the same information available to the Owner. It is presented in good faith, but is not intended as a substitute for investigations, interpretation or judgement of such authorized users.

Approximate Change in Strata \_\_\_\_\_  
 Inferred Change in Strata \_\_\_\_\_

Soil descriptions represent a field identification after D.M. Burnister unless otherwise noted.

**CERTIFIED ENGINEERING OF NJ.**

ROUTE:	LOCAL NAME: Forest View Estates, Mendham Township, NJ	BORING NO. FIELD
SECTION:	COORDINATES:	SOIL LOG NO: SL-2
STATION:	OFFSET: REFERENCE LINE: Mountainside Avenue	GROUND ELEVATION:

BORING BY: CE of NJ.	DATE STARTED: 6/8/2019	GROUND WATER ELEVATION Date: July 8, 2019
INSPECTOR: A. Morteza	DATE COMPLETED: 6/8/2019	0 Hr. 24 Hr.

DEPTH (ft)	CASING BLOWS	SAMPLE NO.	DEPTH (ft)	Blows on Spoon				REC. (Inches)	SOIL DESCRIPTION AND STRATIFICATION	(ft)
				0 - 6"	6" - 12"	12"-18"	18 - 24"			
0.5									0.5	
3.2								0-8": Top Soil 8" to 32": Stone with Sandy Loam 10R-6/3 Light Brown Color	3.2	
4								32" to 52": 4" to 6" Stones with Sandy Loam 10R-5/3 Brown Color No Refusal		
7								52" to 80": 12" to 14" Stones, Sandy Loam, Light Brown No Refusal No Water	7	
10										
15										
20										
25										
30										
35										
40										

Nominal I.D. of Drive Pipe/Hollow Stem Auger	4 in.
Nominal I.D. of Split Barrel Sampler	1 3/8 in.
Weight of Hammer on Drive Pipe	300 lbs.
Weight of Hammer on Split Barrel Sampler	140 lbs Automatic
Drop of Hammer on Drive Pipe	24 in.
Drop of Hammer on Split Barrel Sampler	30 in.
Core Size	

The subsurface information shown hereon was obtained for the Owner's design and estimate purposes. It is made available to authorized users only that they may have access to the same information available to the Owner. It is presented in good faith, but is not intended as a substitute for investigations, interpretation or judgement of such authorized users.

Approximate Change in Strata \_\_\_\_\_  
 Inferred Change in Strata \_\_\_\_\_

Soil descriptions represent a field identification after D.M. Burmister unless otherwise noted.

**CERTIFIED ENGINEERING OF NJ.**

ROUTE:	LOCAL NAME: Forest View Estates, Mendham Township, NJ	BORING NO. FIELD
SECTION:	COORDINATES:	SOIL LOG NO: SL-3
STATION:	OFFSET: REFERENCE LINE: Mountainside Avenue	GROUND ELEVATION:

BORING BY: CE of NJ.	DATE STARTED: 6/8/2019	GROUND WATER ELEVATION Date: July 8, 2019
INSPECTOR: A. Mortezaei	DATE COMPLETED: 6/8/2019	0 Hr. 24 Hr.

DEPTH (ft)	CASING BLOWS	SAMPLE NO.	DEPTH (ft)	Blows on Spoon				REC. (Inches)	SOIL DESCRIPTION AND STRATIFICATION	(ft)
				0 - 6"	6" - 12"	12"-18"	18 - 24"			
0.5									0.5	
3.2								0-8": Top Soil		
4								8" to 40": Stone Gravel with Sandy Loam Light Brown, 10R-6/3 Stones 4" to 12"	3.2	
7								40" to 79": Dark Brown Sandy Loam, with Stones 18" to 24"		
10								80" Sandy Loam, Dark Brown No Refusal No Water	7	
15										
20										
25										
30										
35										
40										

Nominal I.D. of Drive Pipe/Hollow Stem Auger	4 in.
Nominal I.D. of Split Barrel Sampler	1 3/8 in.
Weight of Hammer on Drive Pipe	300 lbs.
Weight of Hammer on Split Barrel Sampler	140 lbs Automatic
Drop of Hammer on Drive Pipe	24 in.
Drop of Hammer on Split Barrel Sampler	30 in.
Core Size	

The subsurface information shown hereon was obtained for the Owner's design and estimate purposes. It is made available to authorized users only that they may have access to the same information available to the Owner. It is presented in good faith, but is not intended as a substitute for investigations, interpretation or judgement of such authorized users.

Approximate Change in Strata \_\_\_\_\_  
 Inferred Change in Strata \_\_\_\_\_

Soil descriptions represent a field identification after D.M. Burmister unless otherwise noted.

**FORM 2-B SOIL LOGS AND INTERPRETATION**  
**Morris County/Mendham Township**

DATE: March 3, 2020

BLOCK 116 LOT 47

Describe in accordance with 7:9A-5.3 (inches top-bottom) all profile pits in or within 20' of proposed disposal field.

Log ID = 1.1A Date: 2/24/20 - 2/25/20

Depth (inches) Top-Bottom	Munsell Color Name and Symbol; Estimated Textural Class; Estimated Volume % Coarse Fragment, If Present; Structure; Moist or Dry Consistence; Mottling - Abundance, Size and Contrast, If Present
0 - 10"	10YR 3/3 Loam; Subangular Blocky, Friable
10 - 60"	7.5YR 4/4 Sandy Clay Loam; Subangular Blocky, Friable
60 - 120"	10YR 5/4 Loam; No Structure, Friable
	No Mottles
	No water

Depth in Inches:

1st Seepage \_\_\_\_\_ None  
 Infiltration \_\_\_\_\_ None  
 24 Hour Static \_\_\_\_\_  
 SHWT \_\_\_\_\_ Date: \_\_\_\_\_  
 Highest Mottling \_\_\_\_\_ None  
 Non-soil \_\_\_\_\_ None

Soil Limiting Zones: Depths as Indicated (In Inches):

Fractured Rock Substratum (top) \_\_\_\_\_  
 Massive Rock Substratum (top) \_\_\_\_\_  
 Excessively Coarse Horizon (top to bottom) \_\_\_\_\_  
 Excessively Coarse Substratum (top) \_\_\_\_\_  
 Hydraulically Restrictive Horizon (top to bottom) \_\_\_\_\_  
 Hydraulically Restrictive Substratum (top) \_\_\_\_\_  
 Perched Zone of Saturation (top to bottom) \_\_\_\_\_  
 Regional Zone of Saturation - (top) \_\_\_\_\_  
 Soil Suitability Class (from table 10.1) \_\_\_\_\_ I  
 Type of Field (from table 10.1) \_\_\_\_\_ C (SRB, SRE, M, MSR)

*I hereby certify that the information furnished on Form 2B of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A.58:10a-1 et seq.) and is subject to penalties as prescribed in N.J.A.C.7:14-8. I further certify that all borings and excavations on this lot have been properly backfilled for safety purposes.*

Signature of Site Evaluator Kyle J. Paterson Date: 2/25/2020

Signature of Professional Engineer Michael K. Ford Date: 3/3/2020  
 Michael K. Ford, NJ PE License No. 34722

**FORM 2-B SOIL LOGS AND INTERPRETATION**  
**Morris County/Mendham Township**

DATE: March 3, 2020

BLOCK 116 LOT 47

Describe in accordance with 7:9A-5.3 (inches top-bottom) all profile pits in or within 20' of proposed disposal field.

Log ID = 1.2A Date: 2/24/20 - 2/25/20

Depth (inches) Top-Bottom	Munsell Color Name and Symbol; Estimated Textural Class; Estimated Volume % Coarse Fragment, If Present; Structure; Moist or Dry Consistence; Mottling - Abundance, Size and Contrast, If Present
0 - 10"	10YR 3/3 Loam; Subangular Blocky, Friable
10 - 30"	7.5YR 5/4 Sandy Clay Loam; Subangular Blocky, Friable
30 - 90"	7.5YR 6/4 Sandy Loam, No Structure, Friable
90 - 120"	10YR 6/3 Cobbly Sandy Loam with 20% Granitic Gneiss Cobbles, No Structure, Friable  No Mottles  No water

Depth in Inches:

1st Seepage None  
 Infiltration None  
 24 Hour Static \_\_\_\_\_  
 SHWT \_\_\_\_\_ Date: \_\_\_\_\_  
 Highest Mottling None  
 Non-soil None

Soil Limiting Zones: Depths as Indicated (In Inches):

Fractured Rock Substratum (top) \_\_\_\_\_  
 Massive Rock Substratum (top) \_\_\_\_\_  
 Excessively Coarse Horizon (top to bottom) \_\_\_\_\_  
 Excessively Coarse Substratum (top) \_\_\_\_\_  
 Hydraulically Restrictive Horizon (top to bottom) \_\_\_\_\_  
 Hydraulically Restrictive Substratum (top) \_\_\_\_\_  
 Perched Zone of Saturation (top to bottom) \_\_\_\_\_  
 Regional Zone of Saturation - (top) \_\_\_\_\_  
 Soil Suitability Class (from table 10.1) I  
 Type of Field (from table 10.1) C (SRB, SRE, M, MSR)

*I hereby certify that the information furnished on Form 2B of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A.58:10a-1 et seq.) and is subject to penalties as prescribed in N.J.A.C.7:14-8. I further certify that all borings and excavations on this lot have been properly backfilled for safety purposes.*

Signature of Site Evaluator Kyle J. Paterson Date: 2/25/2020

Signature of Professional Engineer Michael K. Ford Date: 3/3/2020  
 Michael K. Ford, NJ PE License No. 34722

**FORM 2-B SOIL LOGS AND INTERPRETATION**  
**Morris County/Mendham Township**

DATE: March 3, 2020

BLOCK 116 LOT 47

Describe in accordance with 7:9A-5.3 (inches top-bottom) all profile pits in or within 20' of proposed disposal field.

Log ID = 1.2 Date: 2/24/20 - 2/25/20

Depth (inches) Top-Bottom	Munsell Color Name and Symbol; Estimated Textural Class; Estimated Volume % Coarse Fragment, If Present; Structure; Moist or Dry Consistence; Mottling - Abundance, Size and Contrast, If Present
0 - 10"	10YR 3/3 Loam; Subangular Blocky, Friable
10 - 53"	7.5YR 5/4 Sandy Clay Loam; Subangular Blocky, Friable
53 - 120"	7.5YR 6/4 Sandy Loam, No Structure, Friable
	No Mottles
	No water

Depth in Inches:

1st Seepage None

Infiltration None

24 Hour Static \_\_\_\_\_

SHWT \_\_\_\_\_ Date: \_\_\_\_\_

Highest Mottling None

Non-soil None

Soil Limiting Zones: Depths as Indicated (In Inches):

Fractured Rock Substratum (top) \_\_\_\_\_

Massive Rock Substratum (top) \_\_\_\_\_

Excessively Coarse Horizon (top to bottom) \_\_\_\_\_

Excessively Coarse Substratum (top) \_\_\_\_\_

Hydraulically Restrictive Horizon (top to bottom) \_\_\_\_\_

Hydraulically Restrictive Substratum (top) \_\_\_\_\_

Perched Zone of Saturation (top to bottom) \_\_\_\_\_

Regional Zone of Saturation - (top) \_\_\_\_\_

Soil Suitability Class (from table 10.1) I

Type of Field (from table 10.1) C (SRB, SRE, M, MSR)

*I hereby certify that the information furnished on Form 2B of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A.58:10a-1 et seq.) and is subject to penalties as prescribed in N.J.A.C.7:14-8. I further certify that all borings and excavations on this lot have been properly backfilled for safety purposes.*

Signature of Site Evaluator Kyle J. Paterson Date: 2/25/2020

Signature of Professional Engineer Michael K. Ford Date: 3/3/2020  
 Michael K. Ford, NJ PE License No. 34722



**FORM 2-B SOIL LOGS AND INTERPRETATION**  
Morris County/Mendham Township

DATE: March 3, 2020

BLOCK 116 LOT 47

Describe in accordance with 7:9A-5.3 (inches top-bottom) all profile pits in or within 20' of proposed disposal field.

Log ID = 1.3 Date: 2/24/20 - 2/25/20

Depth (inches) Top-Bottom	Munsell Color Name and Symbol; Estimated Textural Class; Estimated Volume % Coarse Fragment, If Present; Structure; Moist or Dry Consistence; Mottling - Abundance, Size and Contrast, If Present
0 - 10"	10YR 3/3 Loam; Subangular Blocky, Friable
10 - 45"	7.5YR 5/4 Sandy Clay Loam; Subangular Blocky, Friable
45 - 80"	7.5YR 6/4 Sandy Loam, No Structure, Friable
80 - 120"	10YR 6/3 Sandy Loam, No Structure, Friable
	No Mottles
	No water

Depth in Inches:

1st Seepage None  
 Infiltration None  
 24 Hour Static \_\_\_\_\_  
 SHWT \_\_\_\_\_ Date: \_\_\_\_\_  
 Highest Mottling None  
 Non-soil None

Soil Limiting Zones: Depths as Indicated (In Inches):

Fractured Rock Substratum (top) \_\_\_\_\_  
 Massive Rock Substratum (top) \_\_\_\_\_  
 Excessively Coarse Horizon (top to bottom) \_\_\_\_\_  
 Excessively Coarse Substratum (top) \_\_\_\_\_  
 Hydraulically Restrictive Horizon (top to bottom) \_\_\_\_\_  
 Hydraulically Restrictive Substratum (top) \_\_\_\_\_  
 Perched Zone of Saturation (top to bottom) \_\_\_\_\_  
 Regional Zone of Saturation - (top) \_\_\_\_\_  
 Soil Suitability Class (from table 10.1) I  
 Type of Field (from table 10.1) C (SRB, SRE, M, MSR)

*I hereby certify that the information furnished on Form 2B of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A.58:10a-1 et seq.) and is subject to penalties as prescribed in N.J.A.C.7:14-8. I further certify that all borings and excavations on this lot have been properly backfilled for safety purposes.*

Signature of Site Evaluator Kyle J. Paterson Date: 2/25/2020

Signature of Professional Engineer Michael K. Ford Date: 3/3/2020  
 Michael K. Ford, NJ PE License No. 34722

**FORM 2-B SOIL LOGS AND INTERPRETATION**  
**Morris County/Mendham Township**

DATE: March 3, 2020

BLOCK 116 LOT 47

Describe in accordance with 7:9A-5.3 (inches top-bottom) all profile pits in or within 20' of proposed disposal field.

Log ID = 2.1 Date: 2/24/20 - 2/25/20

Depth (inches) Top-Bottom	Munsell Color	Name and Symbol; Estimated Textural Class; Estimated Volume % Coarse Fragment, If Present; Structure; Moist or Dry Consistence; Mottling - Abundance, Size and Contrast, If Present
0 - 10"	10YR 3/3	Silt Loam; Granular, Friable
10 - 49"	7.5YR 5/4	Clay Loam; Subangular Blocky, Friable
49 - 68"	7.5YR 6/4	Sandy Loam; 10% Gravel, No Structure, Friable
68 - 120"	10YR 6/3	Sandy Loam, No Structure, Friable
		No Mottles
		No water

Depth in Inches:

1st Seepage \_\_\_\_\_ None  
 Infiltration \_\_\_\_\_ None  
 24 Hour Static \_\_\_\_\_  
 SHWT \_\_\_\_\_ Date: \_\_\_\_\_  
 Highest Mottling \_\_\_\_\_ None  
 Non-soil \_\_\_\_\_ None

Soil Limiting Zones: Depths as Indicated (In Inches):

Fractured Rock Substratum (top) \_\_\_\_\_  
 Massive Rock Substratum (top) \_\_\_\_\_  
 Excessively Coarse Horizon (top to bottom) \_\_\_\_\_  
 Excessively Coarse Substratum (top) \_\_\_\_\_  
 Hydraulically Restrictive Horizon (top to bottom) \_\_\_\_\_  
 Hydraulically Restrictive Substratum (top) \_\_\_\_\_  
 Perched Zone of Saturation (top to bottom) \_\_\_\_\_  
 Regional Zone of Saturation - (top) \_\_\_\_\_  
 Soil Suitability Class (from table 10.1) \_\_\_\_\_ I  
 Type of Field (from table 10.1) \_\_\_\_\_ C (SRB, SRE, M, MSR)

*I hereby certify that the information furnished on Form 2B of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A.58:10a-1 et seq.) and is subject to penalties as prescribed in N.J.A.C.7:14-8. I further certify that all borings and excavations on this lot have been properly backfilled for safety purposes.*

Signature of Site Evaluator Kyle J. Paterson Date: 2/25/2020

Signature of Professional Engineer  Date: 3/3/2020  
 Michael K. Ford, NJ PE License No. 34722

**FORM 2-B SOIL LOGS AND INTERPRETATION**  
Morris County/Mendham Township

DATE: March 3, 2020

BLOCK 116 LOT 47

Describe in accordance with 7:9A-5.3 (inches top-bottom) all profile pits in or within 20' of proposed disposal field.

Log ID = 2.2A Date: 2/24/20 - 2/25/20

Depth (inches) Top-Bottom	Munsell Color Name and Symbol; Estimated Textural Class; Estimated Volume % Coarse Fragment, If Present; Structure; Moist or Dry Consistence; Mottling - Abundance, Size and Contrast, If Present
0 - 10"	10YR 3/3 Silt Loam; Granular, Friable
10 - 55"	7.5YR 4/4 Silt Loam; Subangular Blocky, Friable
55 - 90"	10YR 4/4 Loam; 10% Gravel, No Structure, Friable
90 - 120"	7.5YR 4/6 Gravelly Loam; 25% Gravel, No Structure, Friable
	No Mottles
	No water

Depth in Inches:

1st Seepage \_\_\_\_\_ None  
 Infiltration \_\_\_\_\_ None  
 24 Hour Static \_\_\_\_\_  
 SHWT \_\_\_\_\_ Date: \_\_\_\_\_  
 Highest Mottling \_\_\_\_\_ None  
 Non-soil \_\_\_\_\_ None

Soil Limiting Zones: Depths as Indicated (In Inches):

Fractured Rock Substratum (top) \_\_\_\_\_  
 Massive Rock Substratum (top) \_\_\_\_\_  
 Excessively Coarse Horizon (top to bottom) \_\_\_\_\_  
 Excessively Coarse Substratum (top) \_\_\_\_\_  
 Hydraulically Restrictive Horizon (top to bottom) \_\_\_\_\_  
 Hydraulically Restrictive Substratum (top) \_\_\_\_\_  
 Perched Zone of Saturation (top to bottom) \_\_\_\_\_  
 Regional Zone of Saturation - (top) \_\_\_\_\_  
 Soil Suitability Class (from table 10.1) \_\_\_\_\_ I  
 Type of Field (from table 10.1) \_\_\_\_\_ C (SRB, SRE, M, MSR)

*I hereby certify that the information furnished on Form 2B of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A.58:10a-1 et seq.) and is subject to penalties as prescribed in N.J.A.C.7:14-8. I further certify that all borings and excavations on this lot have been properly backfilled for safety purposes.*

Signature of Site Evaluator Kyle J. Paterson Date: 2/25/2020

Signature of Professional Engineer Michael K. Ford Date: 3/3/2020  
 Michael K. Ford, NJ PE License No. 34722

**FORM 2-B SOIL LOGS AND INTERPRETATION**  
Morris County/Mendham Township

DATE: March 3, 2020

BLOCK 116 LOT 47

Describe in accordance with 7:9A-5.3 (inches top-bottom) all profile pits in or within 20' of proposed disposal field.

Log ID = 2.2 Date: 2/24/20 - 2/25/20

Depth (inches) Top-Bottom	Munsell Color Name and Symbol; Estimated Textural Class; Estimated Volume % Coarse Fragment, If Present; Structure; Moist or Dry Consistence; Mottling - Abundance, Size and Contrast, If Present
0 - 10"	10YR 3/3 Silt Loam; Granular, Friable
10 - 48"	7.5YR 4/6 Sandy Clay Loam; 10% Gravel, Subangular Blocky, Friable
48 - 80"	7.5YR 4/6 Loam; No Structure, Friable
80 - 120"	7.5YR 4/6 Sandy Loam, No Structure, Friable
	No Mottles
	No water

Depth in Inches:

1st Seepage None  
 Infiltration None  
 24 Hour Static \_\_\_\_\_  
 SHWT \_\_\_\_\_ Date: \_\_\_\_\_  
 Highest Mottling None  
 Non-soil None

Soil Limiting Zones: Depths as Indicated (In Inches):

Fractured Rock Substratum (top) \_\_\_\_\_  
 Massive Rock Substratum (top) \_\_\_\_\_  
 Excessively Coarse Horizon (top to bottom) \_\_\_\_\_  
 Excessively Coarse Substratum (top) \_\_\_\_\_  
 Hydraulically Restrictive Horizon (top to bottom) \_\_\_\_\_  
 Hydraulically Restrictive Substratum (top) \_\_\_\_\_  
 Perched Zone of Saturation (top to bottom) \_\_\_\_\_  
 Regional Zone of Saturation - (top) \_\_\_\_\_  
 Soil Suitability Class (from table 10.1) I  
 Type of Field (from table 10.1) C (SRB, SRE, M, MSR)

*I hereby certify that the information furnished on Form 2B of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A.58:10a-1 et seq.) and is subject to penalties as prescribed in N.J.A.C.7:14-8. I further certify that all borings and excavations on this lot have been properly backfilled for safety purposes.*

Signature of Site Evaluator Kyle J. Paterson Date: 2/25/2020

Signature of Professional Engineer Michael K. Ford Date: 3/3/2020  
 Michael K. Ford, NJ PE License No. 34722

**FORM 2-B SOIL LOGS AND INTERPRETATION**  
Morris County/Mendham Township

DATE: March 3, 2020

BLOCK 116 LOT 47

Describe in accordance with 7:9A-5.3 (inches top-bottom) all profile pits in or within 20' of proposed disposal field.

Log ID = 2.3 Date: 2/24/20 - 2/25/20

Depth (inches) Top-Bottom	Munsell Color Name and Symbol; Estimated Textural Class; Estimated Volume % Coarse Fragment, If Present; Structure; Moist or Dry Consistence; Mottling - Abundance, Size and Contrast, If Present
0 - 10"	10YR 3/3 Loam; Granular, Friable
10 - 60"	7.5YR 4/4 Sandy Clay Loam; Subangular Blocky, Friable
60 - 80"	7.5YR 4/6 Sandy Loam; No Structure, Friable
80 - 120"	7.5YR 4/6 Sandy Loam; 5% Granitic Gneiss Stone, No Structure, Friable
	No Mottles
	No water

Depth in inches:

1st Seepage None  
 Infiltration None  
 24 Hour Static \_\_\_\_\_  
 SHWT \_\_\_\_\_ Date: \_\_\_\_\_  
 Highest Mottling None  
 Non-soil None

Soil Limiting Zones: Depths as Indicated (In Inches):

Fractured Rock Substratum (top) \_\_\_\_\_  
 Massive Rock Substratum (top) \_\_\_\_\_  
 Excessively Coarse Horizon (top to bottom) \_\_\_\_\_  
 Excessively Coarse Substratum (top) \_\_\_\_\_  
 Hydraulically Restrictive Horizon (top to bottom) \_\_\_\_\_  
 Hydraulically Restrictive Substratum (top) \_\_\_\_\_  
 Perched Zone of Saturation (top to bottom) \_\_\_\_\_  
 Regional Zone of Saturation - (top) \_\_\_\_\_  
 Soil Suitability Class (from table 10.1) I  
 Type of Field (from table 10.1) C (SRB, SRE, M, MSR)

*I hereby certify that the information furnished on Form 2B of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A.58:10a-1 et seq.) and is subject to penalties as prescribed in N.J.A.C.7:14-8. I further certify that all borings and excavations on this lot have been properly backfilled for safety purposes.*

Signature of Site Evaluator Kyle J. Paterson Date: 2/25/2020

Signature of Professional Engineer Michael K. Ford Date: 3/3/2020  
 Michael K. Ford, NJ PE License No. 34722

**FORM 2-B SOIL LOGS AND INTERPRETATION**  
**Morris County/Mendham Township**

DATE: March 3, 2020

BLOCK 116 LOT 47

Describe in accordance with 7:9A-5.3 (inches top-bottom) all profile pits in or within 20' of proposed disposal field.

Log ID = 3.1 Date: 2/24/20 - 2/25/20

Depth (inches) Top-Bottom	Munsell Color Name and Symbol; Estimated Textural Class; Estimated Volume % Coarse Fragment, If Present; Structure; Moist or Dry Consistence; Mottling - Abundance, Size and Contrast, If Present
0 - 8"	10YR 3/3 Loam; Granular, Friable
8 - 65"	7.5YR 4/4 Heavy Sandy Loam; Subangular Blocky, Friable
65 - 100"	7.5YR 4/6 Sandy Loam; No Structure, Friable
100 - 120"	7.5YR 4/4 Sandy Loam; No Structure, Friable
	No Mottles
	No water

Depth in Inches:

1st Seepage None  
 Infiltration None  
 24 Hour Static \_\_\_\_\_  
 SHWT \_\_\_\_\_ Date: \_\_\_\_\_  
 Highest Mottling None  
 Non-soil None

Soil Limiting Zones: Depths as Indicated (In Inches):

Fractured Rock Substratum (top) \_\_\_\_\_  
 Massive Rock Substratum (top) \_\_\_\_\_  
 Excessively Coarse Horizon (top to bottom) \_\_\_\_\_  
 Excessively Coarse Substratum (top) \_\_\_\_\_  
 Hydraulically Restrictive Horizon (top to bottom) \_\_\_\_\_  
 Hydraulically Restrictive Substratum (top) \_\_\_\_\_  
 Perched Zone of Saturation (top to bottom) \_\_\_\_\_  
 Regional Zone of Saturation - (top) \_\_\_\_\_  
 Soil Suitability Class (from table 10.1) I  
 Type of Field (from table 10.1) C (SRB, SRE, M, MSR)

*I hereby certify that the information furnished on Form 2B of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A.58:10a-1 et seq.) and is subject to penalties as prescribed in N.J.A.C.7:14-8. I further certify that all borings and excavations on this lot have been properly backfilled for safety purposes.*

Signature of Site Evaluator Kyle J. Paterson Date: 2/25/2020

Signature of Professional Engineer Michael K. Ford Date: 3/3/2020  
 Michael K. Ford, NJ PE License No. 34722

**FORM 2-B SOIL LOGS AND INTERPRETATION**  
**Morris County/Mendham Township**

DATE: March 3, 2020

BLOCK 116 LOT 47

Describe in accordance with 7:9A-5.3 (inches top-bottom) all profile pits in or within 20' of proposed disposal field.

Log ID = 3.2 Date: 2/24/20 - 2/25/20

Depth (inches) <u>Top-Bottom</u>	Munsell Color Name and Symbol; Estimated Textural Class; Estimated Volume % Coarse Fragment, If Present; Structure; Moist or Dry Consistence; Mottling - Abundance, Size and Contrast, If Present	
0 - 10"	10YR 3/3	Loam; Granular, Friable
10 - 60"	7.5YR 4/4	Loam; Subangular Blocky, Friable
60 - 120"	7.5YR 4/6	Sandy Loam; 5% Granitic Gneiss Cobbles, No Structure, Friable
		No Mottles
		No water

Depth in Inches:

1st Seepage \_\_\_\_\_ None  
 Infiltration \_\_\_\_\_ None  
 24 Hour Static \_\_\_\_\_  
 SHWT \_\_\_\_\_ Date: \_\_\_\_\_  
 Highest Mottling \_\_\_\_\_ None  
 Non-soil \_\_\_\_\_ None

Soil Limiting Zones: Depths as Indicated (In Inches):

Fractured Rock Substratum (top) \_\_\_\_\_  
 Massive Rock Substratum (top) \_\_\_\_\_  
 Excessively Coarse Horizon (top to bottom) \_\_\_\_\_  
 Excessively Coarse Substratum (top) \_\_\_\_\_  
 Hydraulically Restrictive Horizon (top to bottom) \_\_\_\_\_  
 Hydraulically Restrictive Substratum (top) \_\_\_\_\_  
 Perched Zone of Saturation (top to bottom) \_\_\_\_\_  
 Regional Zone of Saturation - (top) \_\_\_\_\_  
 Soil Suitability Class (from table 10.1) \_\_\_\_\_ I  
 Type of Field (from table 10.1) \_\_\_\_\_ C (SRB, SRE, M, MSR)

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Signature of Site Evaluator Kyle J. Paterson Date: 2/25/2020

Signature of Professional Engineer Michael K. Ford Date: 3/3/2020  
 Michael K. Ford, NJ PE License No. 34722

**FORM 2-B SOIL LOGS AND INTERPRETATION**  
**Morris County/Mendham Township**

DATE: March 3, 2020

BLOCK 116 LOT 47

Describe in accordance with 7:9A-5.3 (inches top-bottom) all profile pits in or within 20' of proposed disposal field.

Log ID = 3.3A Date: 2/24/20 - 2/25/20

Depth (inches) Top-Bottom	Munsell Color Name and Symbol; Estimated Textural Class; Estimated Volume % Coarse Fragment, If Present; Structure; Moist or Dry Consistence; Mottling - Abundance, Size and Contrast, If Present
0 - 10"	10YR 3/3 Silt Loam; Granular, Friable
10 - 65"	7.5YR 4/4 Heavy Sandy Loam; Subangular Blocky, Friable
65 - 90"	7.5YR 4/3 Loam; 10% Granitic Gneiss Cobbles, No Structure, Friable
90 - 120"	7.5YR 4/4 Loam; 10% Granitic Gneiss Stone, No Structure, Friable  No Mottles  No water

Depth in Inches:

1st Seepage None  
 Infiltration None  
 24 Hour Static \_\_\_\_\_  
 SHWT \_\_\_\_\_ Date: \_\_\_\_\_  
 Highest Mottling None  
 Non-soil None

Soil Limiting Zones: Depths as Indicated (In Inches):

Fractured Rock Substratum (top) \_\_\_\_\_  
 Massive Rock Substratum (top) \_\_\_\_\_  
 Excessively Coarse Horizon (top to bottom) \_\_\_\_\_  
 Excessively Coarse Substratum (top) \_\_\_\_\_  
 Hydraulically Restrictive Horizon (top to bottom) \_\_\_\_\_  
 Hydraulically Restrictive Substratum (top) \_\_\_\_\_  
 Perched Zone of Saturation (top to bottom) \_\_\_\_\_  
 Regional Zone of Saturation - (top) \_\_\_\_\_  
 Soil Suitability Class (from table 10.1) I  
 Type of Field (from table 10.1) C (SRB, SRE, M, MSR)

*I hereby certify that the information furnished on Form 2B of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A.58:10a-1 et seq.) and is subject to penalties as prescribed in N.J.A.C.7:14-8. I further certify that all borings and excavations on this lot have been properly backfilled for safety purposes.*

Signature of Site Evaluator Kyle J. Paterson Date: 2/25/2020

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