



ENGINEERING DESIGN ASSOCIATES, P.A.

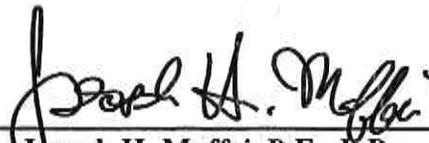
ENGINEERS

ENVIRONMENTAL PLANNERS

LANDSCAPE ARCHITECTS

**PERMEABILITY TEST RESULTS
FOR
BLOCK 3901, LOT 29
MONROE TOWNSHIP
GLOUCESTER COUNTY, NJ**

EDA #8146



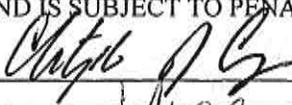
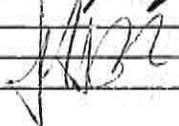
Joseph H. Maffei, P.E., P.P.
N.J.P.E. #37894

10/1/2020
Date

GLOUCESTER COUNTY

SOIL PERMEABILITY CLASS RATING DATA MUNICIPALITY - Monroe Township

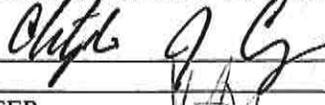
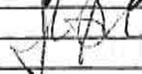
1. Test Number 1 Replicate Letter A
2. Sample Depth 73" Soil Pit Boring Number TP #1 Date Collected 5-2-19
3. Coarse Fragment Content
Total Wt. of Sample, W.T., Grams (g) 212
Wt. of Material Retained on 2 mm Sieve, W.C.F., g 28.5
Wt. % Coarse Fragment (W.C.F./W.T. x 100): 13%
4. Oven Dry Weight (24 Hrs., 105° C) of 40 g Air Dry Sample, g. Wt. 39.6
5. Hydrometer Calibration, Rc 7
6. Hydrometer Reading - 40 Sec., g, R1 12.5
Temperature of Suspension, °F 70°
7. Corrected Hydrometer Reading, g, R1¹ 5.9
8. Hydrometer Reading - 2 Hrs., g, R2 11.0
Temperature of Suspension, °F 69°
9. Corrected Hydrometer Reading, g, R2¹ 4.2
10. % Sand = (Wt. - R1¹)/Wt. x 100 = 85%
11. % Clay = R2¹/Wt. x 100 = 11%
12. Sieve Analysis:
 - (a) Oven Dry Wt. (2 Hrs., 105° C) Total Sand Fraction
(Soil Retained in 0.047 mm Sieve), g 32.7
 - (b) Wt. of Fine Plus Very Fine Sand Fraction
(Sand Passing 0.25 mm Sieve), g 12.3
 - (c) % Fine Plus Very Fine Sand (b/a) 38%
13. Soil Morphology (Natural Soil Samples Only):
Structure of Soil Horizon Tested _____
Consistence of Soil Horizon Tested: _____ Dry _____ Moist
14. Soil Permeability Class Rating (Based upon Average Textural Analysis of this Replicate and other Replicate Samples)
K-4
15. I HEREBY CERTIFY THAT THE INFORMATION FURNISHED ON THIS ATTACHMENT "B" 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.

SIGNATURE OF SOIL EVALUATOR 
DATE 5/3/19
SIGNATURE OF PROFESSIONAL ENGINEER 
LICENSE NUMBER 3578244

GLOUCESTER COUNTY

SOIL PERMEABILITY CLASS RATING DATA MUNICIPALITY - Monroe Township

1. Test Number 1 Replicate Letter B
2. Sample Depth 73" Soil Pit Boring Number TP #1 Date Collected 5-2-19
3. Coarse Fragment Content
Total Wt. of Sample, W.T., Grams (g) 212
Wt. of Material Retained on 2 mm Sieve, W.C.F., g 28.5
Wt. % Coarse Fragment (W.C.F./W.T. x 100): 13%
4. Oven Dry Weight (24 Hrs., 105° C) of 40 g Air Dry Sample, g. Wt. 39.6
5. Hydrometer Calibration, Rc 7
6. Hydrometer Reading - 40 Sec., g, R1 12
Temperature of Suspension, °F 70°
7. Corrected Hydrometer Reading, g, R1¹ 5.4
8. Hydrometer Reading - 2 Hrs., g, R2 11
Temperature of Suspension, °F 69°
9. Corrected Hydrometer Reading, g, R2¹ 4.2
10. % Sand = (Wt. - R1¹)/Wt. x 100 = 86%
11. % Clay = R2¹/Wt. x 100 = 10.6%
12. Sieve Analysis:
(a) Oven Dry Wt. (2 Hrs., 105° C) Total Sand Fraction
(Soil Retained in 0.047 mm Sieve), g 33.9
(b) Wt. of Fine Plus Very Fine Sand Fraction
(Sand Passing 0.25 mm Sieve), g 13.1
(c) % Fine Plus Very Fine Sand (b/a) 39%
13. Soil Morphology (Natural Soil Samples Only):
Structure of Soil Horizon Tested _____
Consistence of Soil Horizon Tested: _____ Dry _____ Moist
14. Soil Permeability Class Rating (Based upon Average Textural Analysis of this Replicate and other Replicate Samples)
K-4
15. I HEREBY CERTIFY THAT THE INFORMATION FURNISHED ON THIS ATTACHMENT "B" 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.

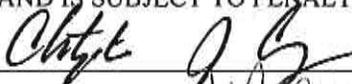
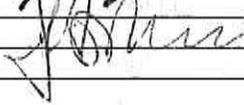
SIGNATURE OF SOIL EVALUATOR 
DATE 8/8/19
SIGNATURE OF PROFESSIONAL ENGINEER 
LICENSE NUMBER 37804

GLOUCESTER COUNTY

SOIL PERMEABILITY CLASS RATING DATA

MUNICIPALITY - Monroe Township

1. Test Number 1 Replicate Letter A
2. Sample Depth 75" Soil Pit Boring Number TP #2 Date Collected 5-2-19
3. Coarse Fragment Content
Total Wt. of Sample, W.T., Grams (g) 202
Wt. of Material Retained on 2 mm Sieve, W.C.F., g 41
Wt. % Coarse Fragment (W.C.F./W.T. x 100): 20%
4. Oven Dry Weight (24 Hrs., 105° C) of 40 g Air Dry Sample, g. Wt. 40
5. Hydrometer Calibration, Rc 6
6. Hydrometer Reading - 40 Sec., g, R1 11
Temperature of Suspension, °F 68°
7. Corrected Hydrometer Reading, g, R1¹ 5
8. Hydrometer Reading - 2 Hrs., g, R2 9
Temperature of Suspension, °F 67°
9. Corrected Hydrometer Reading, g, R2¹ 2.8
10. % Sand = (Wt. - R1¹)/Wt. x 100 = 87.5%
11. % Clay = R2¹/Wt. x 100 = 7%
12. Sieve Analysis:
 - (a) Oven Dry Wt. (2 Hrs., 105° C) Total Sand Fraction
(Soil Retained in 0.047 mm Sieve), g 35.4
 - (b) Wt. of Fine Plus Very Fine Sand Fraction
(Sand Passing 0.25 mm Sieve), g 8.4
 - (c) % Fine Plus Very Fine Sand (b/a) 24%
13. Soil Morphology (Natural Soil Samples Only):
Structure of Soil Horizon Tested _____
Consistence of Soil Horizon Tested: _____ Dry _____ Moist
14. Soil Permeability Class Rating (Based upon Average Textural Analysis of this Replicate and other Replicate Samples)
K-4
15. I HEREBY CERTIFY THAT THE INFORMATION FURNISHED ON THIS ATTACHMENT "B" 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.

SIGNATURE OF SOIL EVALUATOR 
DATE 5/8/19
SIGNATURE OF PROFESSIONAL ENGINEER 
LICENSE NUMBER 2270991

GLOUCESTER COUNTY

SOIL PERMEABILITY CLASS RATING DATA

MUNICIPALITY - Monroe Township

1. Test Number 1 Replicate Letter B
2. Sample Depth 75" Soil Pit Boring Number TP #2 Date Collected 5-2-19
3. Coarse Fragment Content
Total Wt. of Sample, W.T., Grams (g) 202
Wt. of Material Retained on 2 mm Sieve, W.C.F., g 41
Wt. % Coarse Fragment (W.C.F./W.T. x 100): 20%
4. Oven Dry Weight (24 Hrs., 105° C) of 40 g Air Dry Sample, g. Wt. 40
5. Hydrometer Calibration, Rc 6
6. Hydrometer Reading - 40 Sec., g, R1 10.5
Temperature of Suspension, °F 68°
7. Corrected Hydrometer Reading, g, R1¹ 4.5
8. Hydrometer Reading - 2 Hrs., g, R2 9
Temperature of Suspension, °F 67°
9. Corrected Hydrometer Reading, g, R2¹ 2.8
10. % Sand = (Wt. - R1¹)/Wt. x 100 = 88.75%
11. % Clay = R2¹/Wt. x 100 = 7%
12. Sieve Analysis:
(a) Oven Dry Wt. (2 Hrs., 105° C) Total Sand Fraction
(Soil Retained in 0.047 mm Sieve), g 36.8
(b) Wt. of Fine Plus Very Fine Sand Fraction
(Sand Passing 0.25 mm Sieve), g 8.8
(c) % Fine Plus Very Fine Sand (b/a) 24%
13. Soil Morphology (Natural Soil Samples Only):
Structure of Soil Horizon Tested _____
Consistence of Soil Horizon Tested: _____ Dry _____ Moist
14. Soil Permeability Class Rating (Based upon Average Textural Analysis of this Replicate and other Replicate Samples)
K-4
15. I HEREBY CERTIFY THAT THE INFORMATION FURNISHED ON THIS ATTACHMENT "B" 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.

SIGNATURE OF SOIL EVALUATOR *Cheryl J. G.*
DATE 5/8/19
SIGNATURE OF PROFESSIONAL ENGINEER *[Signature]*
LICENSE NUMBER 378819

GLOUCESTER COUNTY

SOIL PERMEABILITY CLASS RATING DATA

MUNICIPALITY - Monroe Township

1. Test Number 1 Replicate Letter A
2. Sample Depth 77" Soil Pit Boring Number TP #3 Date Collected 5-2-19
3. Coarse Fragment Content
 Total Wt. of Sample, W.T., Grams (g) 218.26
 Wt. of Material Retained on 2 mm Sieve, W.C.F., g 23.2
 Wt. % Coarse Fragment (W.C.F./W.T. x 100): 10.6%
4. Oven Dry Weight (24 Hrs., 105° C) of 40 g Air Dry Sample, g. Wt. 39.8
5. Hydrometer Calibration, Rc 8
6. Hydrometer Reading - 40 Sec., g, R1 13.5
 Temperature of Suspension, °F 65°
7. Corrected Hydrometer Reading, g, R1¹ 4.9
8. Hydrometer Reading - 2 Hrs., g, R2 11
 Temperature of Suspension, °F 65°
9. Corrected Hydrometer Reading, g, R2¹ 2.4
10. % Sand = (Wt. - R1¹)/Wt. x 100 = 87.7%
11. % Clay = R2¹/Wt. x 100 = 6%
12. Sieve Analysis:
 (a) Oven Dry Wt. (2 Hrs., 105° C) Total Sand Fraction
 (Soil Retained in 0.047 mm Sieve), g 32.7
 (b) Wt. of Fine Plus Very Fine Sand Fraction
 (Sand Passing 0.25 mm Sieve), g 4.1
 (c) % Fine Plus Very Fine Sand (b/a) 11.7%
13. Soil Morphology (Natural Soil Samples Only):
 Structure of Soil Horizon Tested _____
 Consistence of Soil Horizon Tested: _____ Dry _____ Moist
14. Soil Permeability Class Rating (Based upon Average Textural Analysis of this Replicate and other Replicate Samples)
K-4
15. I HEREBY CERTIFY THAT THE INFORMATION FURNISHED ON THIS ATTACHMENT "B" 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.

SIGNATURE OF SOIL EVALUATOR Cheryl J. G.
 DATE 5/2/19
 SIGNATURE OF PROFESSIONAL ENGINEER [Signature]
 LICENSE NUMBER 37899

GLOUCESTER COUNTY

SOIL PERMEABILITY CLASS RATING DATA

MUNICIPALITY - Monroe Township

- 1. Test Number 1 Replicate Letter B
- 2. Sample Depth 77" Soil Pit Boring Number TP #3 Date Collected 5-2-19
- 3. Coarse Fragment Content
 Total Wt. of Sample, W.T., Grams (g) 218.26
 Wt. of Material Retained on 2 mm Sieve, W.C.F., g 23.2
 Wt. % Coarse Fragment (W.C.F./W.T. x 100): 10.6%
- 4. Oven Dry Weight (24 Hrs., 105° C) of 40 g Air Dry Sample, g. Wt. 39.8
- 5. Hydrometer Calibration, Rc 8
- 6. Hydrometer Reading - 40 Sec., g, R1 13.5
 Temperature of Suspension, °F 65°
- 7. Corrected Hydrometer Reading, g, R1¹ 4.9
- 8. Hydrometer Reading - 2 Hrs., g, R2 11
 Temperature of Suspension, °F 65°
- 9. Corrected Hydrometer Reading, g, R2¹ 2.4
- 10. % Sand = (Wt. - R1¹)/Wt. x 100 = 87.7%
- 11. % Clay = R2¹/Wt. x 100 = 6%
- 12. Sieve Analysis:
 (a) Oven Dry Wt. (2 Hrs., 105° C) Total Sand Fraction
 (Soil Retained in 0.047 mm Sieve), g 33.1
 (b) Wt. of Fine Plus Very Fine Sand Fraction
 (Sand Passing 0.25 mm Sieve), g 4.1
 (c) % Fine Plus Very Fine Sand (b/a) 12.4%
- 13. Soil Morphology (Natural Soil Samples Only):
 Structure of Soil Horizon Tested _____
 Consistence of Soil Horizon Tested: _____ Dry _____ Moist
- 14. Soil Permeability Class Rating (Based upon Average Textural Analysis of this Replicate and other Replicate Samples)
K-4

15. I HEREBY CERTIFY THAT THE INFORMATION FURNISHED ON THIS ATTACHMENT "B" 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.

SIGNATURE OF SOIL EVALUATOR *Clayton G*
 DATE 8/8/19
 SIGNATURE OF PROFESSIONAL ENGINEER *[Signature]*
 LICENSE NUMBER 37834

GLOUCESTER COUNTY

SOIL PERMEABILITY CLASS RATING DATA

MUNICIPALITY - Monroe Township

1. Test Number 1 Replicate Letter A
2. Sample Depth 86" Soil Pit Boring Number TP #4 Date Collected 5-2-19
3. Coarse Fragment Content
Total Wt. of Sample, W.T., Grams (g) 272.5
Wt. of Material Retained on 2 mm Sieve, W.C.F., g 42.1
Wt. % Coarse Fragment (W.C.F./W.T. x 100): 15%
4. Oven Dry Weight (24 Hrs., 105° C) of 40 g Air Dry Sample, g. Wt. 39.8
5. Hydrometer Calibration, Rc 2.5
6. Hydrometer Reading - 40 Sec., g, R1 7
Temperature of Suspension, °F 74°
7. Corrected Hydrometer Reading, g, R1¹ 5.7
8. Hydrometer Reading - 2 Hrs., g, R2 6
Temperature of Suspension, °F 75°
9. Corrected Hydrometer Reading, g, R2¹ 4.9
10. % Sand = (Wt. - R1¹)/Wt. x 100 = 86%
11. % Clay = R2¹/Wt. x 100 = 12.3%
12. Sieve Analysis:
(a) Oven Dry Wt. (2 Hrs., 105° C) Total Sand Fraction
(Soil Retained in 0.047 mm Sieve), g 35
(b) Wt. of Fine Plus Very Fine Sand Fraction
(Sand Passing 0.25 mm Sieve), g 6
(c) % Fine Plus Very Fine Sand (b/a) 17%
13. Soil Morphology (Natural Soil Samples Only):
Structure of Soil Horizon Tested _____
Consistence of Soil Horizon Tested: _____ Dry _____ Moist
14. Soil Permeability Class Rating (Based upon Average Textural Analysis of this Replicate and other Replicate Samples)
K-4
15. I HEREBY CERTIFY THAT THE INFORMATION FURNISHED ON THIS ATTACHMENT "B" 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.

SIGNATURE OF SOIL EVALUATOR *Cheryl J. G.*
DATE 6/9/19
SIGNATURE OF PROFESSIONAL ENGINEER *[Signature]*
LICENSE NUMBER 37249

GLOUCESTER COUNTY

SOIL PERMEABILITY CLASS RATING DATA

MUNICIPALITY - Monroe Township

1. Test Number 1 Replicate Letter B
2. Sample Depth 86" Soil Pit Boring Number TP #4 Date Collected 5-2-19
3. Coarse Fragment Content
Total Wt. of Sample, W.T., Grams (g) 272.5
Wt. of Material Retained on 2 mm Sieve, W.C.F., g 42.1
Wt. % Coarse Fragment (W.C.F./W.T. x 100): 15%
4. Oven Dry Weight (24 Hrs., 105° C) of 40 g Air Dry Sample, g. Wt. 39.8
5. Hydrometer Calibration, Rc 2.5
6. Hydrometer Reading - 40 Sec., g, R1 7.5
Temperature of Suspension, °F 74°
7. Corrected Hydrometer Reading, g, R1¹ 6.2
8. Hydrometer Reading - 2 Hrs., g, R2 6.5
Temperature of Suspension, °F 75°
9. Corrected Hydrometer Reading, g, R2¹ 5.4
10. % Sand = (Wt. - R1¹)/Wt. x 100 = 84%
11. % Clay = R2¹/Wt. x 100 = 13.6%
12. Sieve Analysis:
(a) Oven Dry Wt. (2 Hrs., 105° C) Total Sand Fraction
(Soil Retained in 0.047 mm Sieve), g 36
(b) Wt. of Fine Plus Very Fine Sand Fraction
(Sand Passing 0.25 mm Sieve), g 5
(c) % Fine Plus Very Fine Sand (b/a) 14%
13. Soil Morphology (Natural Soil Samples Only):
Structure of Soil Horizon Tested _____
Consistence of Soil Horizon Tested: _____ Dry _____ Moist
14. Soil Permeability Class Rating (Based upon Average Textural Analysis of this Replicate and other Replicate Samples)
K-4
15. I HEREBY CERTIFY THAT THE INFORMATION FURNISHED ON THIS ATTACHMENT "B" 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.

SIGNATURE OF SOIL EVALUATOR Cheryl A G
 DATE 8/8/19
 SIGNATURE OF PROFESSIONAL ENGINEER [Signature]
 LICENSE NUMBER 379914

GLOUCESTER COUNTY

SOIL PERMEABILITY CLASS RATING DATA

MUNICIPALITY - Monroe Township

1. Test Number 1 Replicate Letter A
2. Sample Depth 70" Soil Pit Boring Number TP #5 Date Collected 5-2-19
3. Coarse Fragment Content
 Total Wt. of Sample, W.T., Grams (g) 241.3
 Wt. of Material Retained on 2 mm Sieve, W.C.F., g 16.2
 Wt. % Coarse Fragment (W.C.F./W.T. x 100): 6.7%
4. Oven Dry Weight (24 Hrs., 105° C) of 40 g Air Dry Sample, g. Wt. 39.7
5. Hydrometer Calibration, Rc 4
6. Hydrometer Reading - 40 Sec., g, R1 9.5
 Temperature of Suspension, °F 68°
7. Corrected Hydrometer Reading, g, R1' 5.5
8. Hydrometer Reading - 2 Hrs., g, R2 7.5
 Temperature of Suspension, °F 70°
9. Corrected Hydrometer Reading, g, R2' 3.9
10. % Sand = (Wt. - R1')/Wt. x 100 = 86%
11. % Clay = R2'/Wt. x 100 = 9.8%
12. Sieve Analysis:
 (a) Oven Dry Wt. (2 Hrs., 105° C) Total Sand Fraction
 (Soil Retained in 0.047 mm Sieve), g 39.1
 (b) Wt. of Fine Plus Very Fine Sand Fraction
 (Sand Passing 0.25 mm Sieve), g 2.9
 (c) % Fine Plus Very Fine Sand (b/a) 7.4%
13. Soil Morphology (Natural Soil Samples Only):
 Structure of Soil Horizon Tested _____
 Consistence of Soil Horizon Tested: _____ Dry _____ Moist
14. Soil Permeability Class Rating (Based upon Average Textural Analysis of this Replicate and other Replicate Samples)
K-4
15. I HEREBY CERTIFY THAT THE INFORMATION FURNISHED ON THIS ATTACHMENT "B" 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.

SIGNATURE OF SOIL EVALUATOR *Alfred J. G.*
 DATE 5/2/19
 SIGNATURE OF PROFESSIONAL ENGINEER *[Signature]*
 LICENSE NUMBER 37099

GLOUCESTER COUNTY

SOIL PERMEABILITY CLASS RATING DATA

MUNICIPALITY - Monroe Township

1. Test Number 1 Replicate Letter B
2. Sample Depth 70" Soil Pit Boring Number TP #5 Date Collected 5-2-19
3. Coarse Fragment Content
 Total Wt. of Sample, W.T., Grams (g) 241.3
 Wt. of Material Retained on 2 mm Sieve, W.C.F., g 16.2
 Wt. % Coarse Fragment (W.C.F./W.T. x 100): 6.7%
4. Oven Dry Weight (24 Hrs., 105° C) of 40 g Air Dry Sample, g. Wt. 39.7
5. Hydrometer Calibration, Rc 4
6. Hydrometer Reading - 40 Sec., g, R1 9
 Temperature of Suspension, °F 67.5°
7. Corrected Hydrometer Reading, g, R1¹ 4.9
8. Hydrometer Reading - 2 Hrs., g, R2 7
 Temperature of Suspension, °F 70°
9. Corrected Hydrometer Reading, g, R2¹ 3.4
10. % Sand = (Wt. - R1¹)/Wt. x 100 = 87.6%
11. % Clay = R2¹/Wt. x 100 = 9%
12. Sieve Analysis:
 (a) Oven Dry Wt. (2 Hrs., 105° C) Total Sand Fraction
 (Soil Retained in 0.047 mm Sieve), g 38.3
 (b) Wt. of Fine Plus Very Fine Sand Fraction
 (Sand Passing 0.25 mm Sieve), g 3.2
 (c) % Fine Plus Very Fine Sand (b/a) 8%
13. Soil Morphology (Natural Soil Samples Only):
 Structure of Soil Horizon Tested _____
 Consistence of Soil Horizon Tested: _____ Dry _____ Moist
14. Soil Permeability Class Rating (Based upon Average Textural Analysis of this Replicate and other Replicate Samples)
K-4
15. I HEREBY CERTIFY THAT THE INFORMATION FURNISHED ON THIS ATTACHMENT "B" 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.

SIGNATURE OF SOIL EVALUATOR *Christopher J. G...*
 DATE 5/2/19
 SIGNATURE OF PROFESSIONAL ENGINEER *[Signature]*
 LICENSE NUMBER 3284

GLOUCESTER COUNTY

SOIL PERMEABILITY CLASS RATING DATA

MUNICIPALITY - Monroe Township

1. Test Number 1 Replicate Letter A
2. Sample Depth 95" Soil Pit Boring Number TP #6 Date Collected 5-2-19
3. Coarse Fragment Content
 Total Wt. of Sample, W.T., Grams (g) 305
 Wt. of Material Retained on 2 mm Sieve, W.C.F., g 60
 Wt. % Coarse Fragment (W.C.F./W.T. x 100): 20%
4. Oven Dry Weight (24 Hrs., 105° C) of 40 g Air Dry Sample, g. Wt. 40
5. Hydrometer Calibration, Rc 5
6. Hydrometer Reading - 40 Sec., g, R1 9.5
 Temperature of Suspension, °F 68°
7. Corrected Hydrometer Reading, g, R1' 4.5
8. Hydrometer Reading - 2 Hrs., g, R2 8
 Temperature of Suspension, °F 68°
9. Corrected Hydrometer Reading, g, R2' 3
10. % Sand = (Wt. - R1')/Wt. x 100 = 88.75%
11. % Clay = R2'/Wt. x 100 = 7.5%
12. Sieve Analysis:
 (a) Oven Dry Wt. (2 Hrs., 105° C) Total Sand Fraction
 (Soil Retained in 0.047 mm Sieve), g 31.6
 (b) Wt. of Fine Plus Very Fine Sand Fraction
 (Sand Passing 0.25 mm Sieve), g 3.3
 (c) % Fine Plus Very Fine Sand (b/a) 10%
13. Soil Morphology (Natural Soil Samples Only):
 Structure of Soil Horizon Tested _____
 Consistence of Soil Horizon Tested: _____ Dry _____ Moist
14. Soil Permeability Class Rating (Based upon Average Textural Analysis of this Replicate and other Replicate Samples)
K-4
15. I HEREBY CERTIFY THAT THE INFORMATION FURNISHED ON THIS ATTACHMENT "B" 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.

SIGNATURE OF SOIL EVALUATOR *Christie A. Ely*
 DATE 8/8/19
 SIGNATURE OF PROFESSIONAL ENGINEER *[Signature]*
 LICENSE NUMBER 37916

GLOUCESTER COUNTY

SOIL PERMEABILITY CLASS RATING DATA

MUNICIPALITY - Monroe Township

1. Test Number 1 Replicate Letter B
2. Sample Depth 95" Soil Pit Boring Number TP #6 Date Collected 5-2-19
3. Coarse Fragment Content
Total Wt. of Sample, W.T., Grams (g) 305
Wt. of Material Retained on 2 mm Sieve, W.C.F., g 60
Wt. % Coarse Fragment (W.C.F./W.T. x 100): 20%
4. Oven Dry Weight (24 Hrs., 105° C) of 40 g Air Dry Sample, g. Wt. 40
5. Hydrometer Calibration, Rc 5
6. Hydrometer Reading - 40 Sec., g, R1 9.5
Temperature of Suspension, °F 68°
7. Corrected Hydrometer Reading, g, R1¹ 4.5
8. Hydrometer Reading - 2 Hrs., g, R2 8
Temperature of Suspension, °F 68°
9. Corrected Hydrometer Reading, g, R2¹ 3
10. % Sand = (Wt. - R1¹)/Wt. x 100 = 88.75%
11. % Clay = R2¹/Wt. x 100 = 7.5%
12. Sieve Analysis:
(a) Oven Dry Wt. (2 Hrs., 105° C) Total Sand Fraction
(Soil Retained in 0.047 mm Sieve), g 32.9
(b) Wt. of Fine Plus Very Fine Sand Fraction
(Sand Passing 0.25 mm Sieve), g 3.5
(c) % Fine Plus Very Fine Sand (b/a) 10.6%
13. Soil Morphology (Natural Soil Samples Only):
Structure of Soil Horizon Tested _____
Consistence of Soil Horizon Tested: _____ Dry _____ Moist
14. Soil Permeability Class Rating (Based upon Average Textural Analysis of this Replicate and other Replicate Samples)
K-4
15. I HEREBY CERTIFY THAT THE INFORMATION FURNISHED ON THIS ATTACHMENT "B" 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.

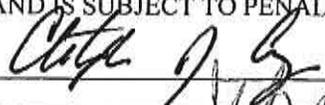
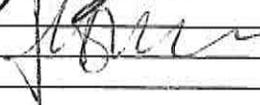
SIGNATURE OF SOIL EVALUATOR *Cheryl J. G.*
 DATE 8/8/19
 SIGNATURE OF PROFESSIONAL ENGINEER *[Signature]*
 LICENSE NUMBER 27214

GLOUCESTER COUNTY

SOIL PERMEABILITY CLASS RATING DATA

MUNICIPALITY - Monroe Township

1. Test Number 1 Replicate Letter A
2. Sample Depth 125" Soil Pit Boring Number TP#7 Date Collected 5-2-19
3. Coarse Fragment Content
Total Wt. of Sample, W.T., Grams (g) 283
Wt. of Material Retained on 2 mm Sieve, W.C.F., g 61.5
Wt. % Coarse Fragment (W.C.F./W.T. x 100): 22%
4. Oven Dry Weight (24 Hrs., 105° C) of 40 g Air Dry Sample, g. Wt. 39.7
5. Hydrometer Calibration, Rc 4
6. Hydrometer Reading - 40 Sec., g, R1 7
Temperature of Suspension, °F 75°
7. Corrected Hydrometer Reading, g, R1¹ 4.4
8. Hydrometer Reading - 2 Hrs., g, R2 6
Temperature of Suspension, °F 75°
9. Corrected Hydrometer Reading, g, R2¹ 3.4
10. % Sand = (Wt. - R1¹)/Wt. x 100 = 89%
11. % Clay = R2¹/Wt. x 100 = 8.5%
12. Sieve Analysis:
(a) Oven Dry Wt. (2 Hrs., 105° C) Total Sand Fraction
(Soil Retained in 0.047 mm Sieve), g 38
(b) Wt. of Fine Plus Very Fine Sand Fraction
(Sand Passing 0.25 mm Sieve), g 5.7
(c) % Fine Plus Very Fine Sand (b/a) 15%
13. Soil Morphology (Natural Soil Samples Only):
Structure of Soil Horizon Tested _____
Consistence of Soil Horizon Tested: _____ Dry _____ Moist
14. Soil Permeability Class Rating (Based upon Average Textural Analysis of this Replicate and other Replicate Samples)
K-4
15. I HEREBY CERTIFY THAT THE INFORMATION FURNISHED ON THIS ATTACHMENT "B" 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.

SIGNATURE OF SOIL EVALUATOR 
DATE 5/8/19
SIGNATURE OF PROFESSIONAL ENGINEER 
LICENSE NUMBER 37874

White & Blue, LLC - EDA #8146

GLOUCESTER COUNTY

SOIL PERMEABILITY CLASS RATING DATA

MUNICIPALITY - Monroe Township

1. Test Number 1 Replicate Letter B
2. Sample Depth 125" Soil Pit Boring Number TP #7 Date Collected 5-2-19
3. Coarse Fragment Content
Total Wt. of Sample, W.T., Grams (g) 283
Wt. of Material Retained on 2 mm Sieve, W.C.F., g 61.5
Wt. % Coarse Fragment (W.C.F./W.T. x 100): 22%
4. Oven Dry Weight (24 Hrs., 105° C) of 40 g Air Dry Sample, g. Wt. 39.7
5. Hydrometer Calibration, Rc 4
6. Hydrometer Reading - 40 Sec., g, R1 7
Temperature of Suspension, °F 75°
7. Corrected Hydrometer Reading, g, R1¹ 4.4
8. Hydrometer Reading - 2 Hrs., g, R2 7
Temperature of Suspension, °F 75°
9. Corrected Hydrometer Reading, g, R2¹ 4.4
10. % Sand = (Wt. - R1¹)/Wt. x 100 = 89%
11. % Clay = R2¹/Wt. x 100 = 11%
12. Sieve Analysis:
(a) Oven Dry Wt. (2 Hrs., 105° C) Total Sand Fraction
(Soil Retained in 0.047 mm Sieve), g 36
(b) Wt. of Fine Plus Very Fine Sand Fraction
(Sand Passing 0.25 mm Sieve), g 7.6
(c) % Fine Plus Very Fine Sand (b/a) 21%
13. Soil Morphology (Natural Soil Samples Only):
Structure of Soil Horizon Tested _____
Consistence of Soil Horizon Tested: _____ Dry _____ Moist
14. Soil Permeability Class Rating (Based upon Average Textural Analysis of this Replicate and other Replicate Samples)
K-4
15. I HEREBY CERTIFY THAT THE INFORMATION FURNISHED ON THIS ATTACHMENT "B" 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.

SIGNATURE OF SOIL EVALUATOR *Cheryl J. G.*
DATE 5/8/19
SIGNATURE OF PROFESSIONAL ENGINEER *[Signature]*
LICENSE NUMBER 578194