Soil Testing Data

Block 4201.01 Lot 33.03
Grovers Mill Road & Mall Access Road
Township of Lawrence
Mercer County, New Jersey

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performed on June 10, 2024 12 pages
Test pit location plan

Wham Engineering Services, Inc.

Barry K. Wham, P.E.,LSRP 114 Windsor Road Robbinsville, NJ 08691

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FIELD NOTES: SOIL LOGS: March 29, 2023 by Barry K. Wham, P.E. LOCATION: Grovers Mill Road, Lawrence Township, Lot 33.03: Block 4201.01

#1-32923

0- 12"	Topsoil, root mat
12" - 34"	10YR7/6 yellow silt loam, subangular blocky (SAB) firm
34" – 48"	7.5YR5/4 brown, sandy loam, weak SAB, firm, 5% gravel
48" – 88"	7.5YR4/6 strong brown, loamy sand, loose, single grain, very friable, moist to saturated at 5 ft. 7.5YR6/6 at 66". Good water movement
88" – 100"	2.5 YR6/4 light reddish brown, silt loam + shale, firm massive, moist. No water movement
· at a · max · · · · · · · · · · · · · · · · · · ·	Estimated (Est)SHWT 48"

#2-32923

0-17"	Topsoil, root mat
17" - 44"	7.5YR7/4 pink, SAB, friable, moist
44" – 113"	7.5YR5/4 brown loamy sand weak SAB, friable, No water
113" - 120"+	2.5YR4/4 reddish brown, massive, firm, silt loam + shale
	Est SHWT >10 ft.

#3-32923

0 – 14"	Topsoil, root mat
14" - 36"	7.5YR4/3 brown, loam, firm, SAB, moist
36" – 120"	7.5YR5/6 strong brown, loamy sand, weak SAB, moist. 58" 7.5YR5/4 brown. No water
120"+	Silt loam, few fragments of shale, firm, moist, SAB, stratified layers of 7.5YR5/8,4/1, 7/6. No water
	Est SHWT > 10 ft.

#4-32923

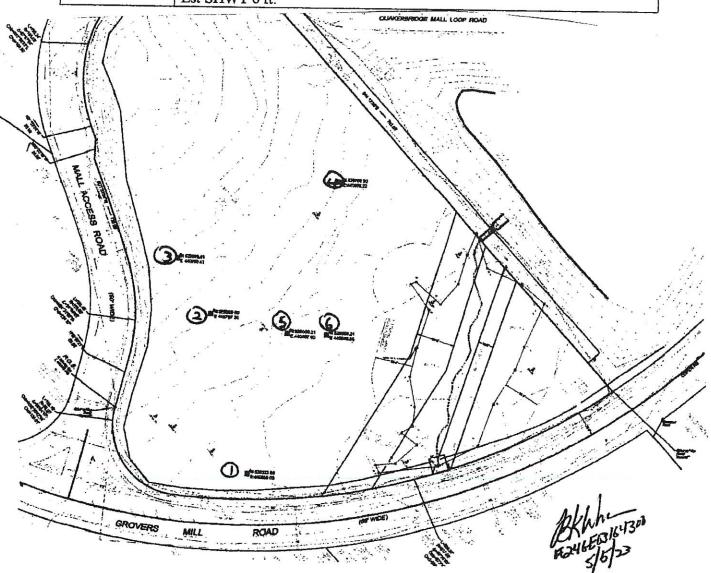
0 - 12"	Topsoil, root mat
12" - 32"	7.5YR5/6 strong brown loam, firm, friable, SAB
32" - 52"	7.5YR4/3 brown, loamy sand, weak SAB, 5% gravel, friable
52" - 108"	7.5YR5/6 strong brown loamy sand, WSAB, friable
108" -	Compacted sandy loam, firm, friable, SAB, No water, mottled, 7.5YR6/8, 2.5/2, 2.5Y8/1, 5YR5/8 Iron stone fragments
	Est SHWT 9 ft.

#5-32923

0 – 10"	Topsoil, root mat	
10" -40"	7.5YR4/4 brown, loam, firm, friable, SAB	
40" – 64"	7.5YR5/6 strong brown, sandy loam WSAB, friable	
64" 84"	2.5YR4/4 reddish brown, silt loam, shale fragments	
84" 109"	2.5YR8/1 + 7.5YR6/6 silt loam, white + brown, SAB, firm moist, mottled	
109"	Loamy sand, mix iron stone, stratify layers of mottled loamy sands, moist, no water	
	Est SHWT 7 ft.	

#6-32923

0 – 18"	Topsoil, root mat
18" -26"	7.5YR4/4 brown, sandy loam, compacted SAB, firm
26" – 45"	Silt loam, white, mottled at 40"
45" – 64"	7.5 YR4/6 strong brown, loamy sand, 10% gravel, friable
64" – 108"	Fractured shale + sandy loam 60%. Water @ 90"
	Est SHWT 6 ft.



Wham Engineering Services, Inc.

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August 16, 2023

Soil logs -Grover Mill Road, Lawrence Township, NJ -Dated 8/2/2023

B1	B2	B3
0 – 12" Root mat, topsoil	0 -12" Topsoil, root mat	0 - 12" Root mat
12"-36" Compacted loam	12" -48" Loam 7.5YR7/6-	12" – 60" Sand, loose single
Very firm, 30% shale	reddish yellow	grain
7.5YR7/6	Firm	7.5YR5/6 Reddish yellow
36"-58" Silty loam firm	48" – 60" Loamy sand	60" – 120" Sand, loose,
7.5YR5/6	Coarse 10YR8/4-very pale	single grain, white
	brown	7.5YR8/1
58" – 84" Sandy Ioam	60" -108" Silty sand	120" Iron stone
7.5YR8/6 friable	10YR8/2 very pale brown	
84" -90" Med. Loamy sand	108" – 126" Silty soil pink	
Friable, 7.5YR8/4	10R8/4	
90"-96" Iron stone mottled		
Loam, moist		
96" Loam 5 YR6/8		
108" Silt loam 7.5YR8/4		
120" Silt loam 5YR3/4,		
10YR7/6		

Wham Engineering Services, Inc.

Barry K. Wham, P.E.,LSRP 114 Windsor Road

Robbinsville, NJ 08691

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June 10, 2024—Soil Logs

Location: Grover Mills Road and Mall Access Road Lawrence Township, Mercer County, NJ

Block 4201.01 Lot 33.03

TP-#1A

0-7"	Topsoil, root mat
7"-20"	10YR5/4 loam, firm, strong subangular blocky, few common roots
20"-60"	10YR6/2 silt loam, firm, strong subangular blocky, few fine mottles
60"-96"	7.5YR5/6 loamy sand, very friable, weak subangular blocky, no mottles
	Sample at 5'

TP-#2A

0-10"	Topsoil, root mat
10"-26"	7.5YR5/6 loam, subangular blocky, firm
26"-58"	10YR6/4 loamy sand, singular grain, loose
58"-120"	Sandy loam with iron stone fragments, subangular blocky, friable, 2.5YR3/2, 7.5YR6/6, mottled
	Sample at 8'
120"-132"	10YR6/6, compacted sandy loam, blocky, very firm, no mottles

TP-#4A

0-6"	Topsoil, root mat
6"-43"	Loam, firm, strong subangular blocky, 10YR5/4
43"-78"	Medium- coarse loamy sand 5YR4/6, weak subangular blocky, friable
78"-99"	Loamy sand 7.5 YR6/4, single grain
	Sample at 8.5 ft.
99"-144"	Fractured shale, cobble size fragments
	No water

TP#7

0-10"	Topsoil, root mat
10"-32"	Loamy 10YR5/4, firm
32"- 12'-6"	Medium coarse loamy sand, weak subangular blocky, firm 10YR8/3
12'-6"-15'	Coarse sand and gravel, hard iron stone, moist, very firm at 13'
	Sample at 14'
15'-16'	Boulder size iron stone, silt loam
	No water

TP#7A

0-15"	Topsoil, root mat
15"-66"	Loam, 10YR5/4, firm, strong subangular blocky
66"-18'	Loamy sand 7.5YR 10YR8/8 Stratified layers of iron stone and coarse sand 20% gravel Mottles 2.5YR4/6, 2.5YR8/2, Sample at 16'



CLIENT: Wham Engineering Services, Inc. 114 Windsor Road

Robbinsville, New Jersey 08691

DATE: 6/13/24

LAB NO: B-2310-24

PROJECT: Grover Mill Road & Mall Access Road

Lawrence, New Jersey

REPORT NO: AG-3

ON SAMPLE OF: Soil Material

SAMPLED BY: Client

RECEIVED: 6/11/24

MARKED: TP-1A Depth: 5'0"

EXAMINED WITH THE FOLLOWING RESULTS:

1. Grain size Analysis (ASTM D422), Material finer than the #200 (ASTM D-1140).

% Passing
100
100
100
99.6
99.5
99.1
78.2
26.3
9.5
7.6
7.0

2. Permeability of Granular Soils (ASTM D2434): 23.0 in/hr. (K-5)

Respectfully Submitted, Certified Testing Laboratories, Inc.

Terry Kifer, General Manager



CLIENT: Wham Engineering Services, Inc.

LAB NO.; B-2310-24

114 Windsor Road

Robbinsville, New Jersey 08691

REPORT NO.: PM-3

PROJECT: Grover Mill Road & Mall Access Road

Lawrence, New Jersey

Reference: New Jersey Department of Environmental Protection - Form 3C - Soil Permeability Class Rating Data

1. Test Number: TP-1A

Replicate (letter): -

2. Sample Depth: 5'0"

Soil Pit Number: -

Date Collected: 6/11/24

3. Coarse Fragment Content:

Total Weight of Sample, WT, Grams: 733.8

Weight of Material Retained on 2mm sieve, WCF Grams: 6.5

Weight % Coarse Fragment (WCF/WT x 100): 0.9

- 4. Oven Dry Weight (24 hrs., 105°C) of 40 Gram Air Dried Sample, Grams WT: 39.90
- 5. Hydrometer Calibration, Rc: 3.0 @ 68°F
- 6. Hydrometer Reading @ 40 Seconds, R1: 6.2

Temperature of Suspension: 71°F

- 7. Corrected Hydrometer Reading, R1': 6.2-3.0+0.6=3.8
- 8. Hydrometer Reading @ 2 Hours, R2: 5.0

Temperature of Suspension: 71°F

- 9. Corrected Hydrometer Reading, R2': 5.0-3.0+0.7=2.7
- 10. % Sand = $(WT R1') / WT \times 100 = (39.90 3.80) / 39.90 \times 100 = 90.5$
- 11. % Clay = $R2^1$ / WT x 100 = 2.7 / 39.90 x 100 = 6.8
- 12. Sieve Analysis:
 - a. Oven Dry Weight (2 hrs., 105°C) Total Sand Fraction

(Soil Retained in 0.047mm Sieve), Grams: 37.1

b. WT of Fine Plus Very Fine Sand Fraction

(Sand Passing 0.25mm Sieve), Grams: 7.7

- c. % Fine Plus Very Fine Sand (b/a): 20.8
- 13. Soil Morphology (Natural Soil Samples Only)

Structure of Soil Horizon Tested: -

Consistency of Soil Horizon Tested Dry: -

Moist: -

14. Soil Permeability Class Rating (Based Upon Average Textural Analysis of This Replicate and Other Replicate Samples: K-5

15. I hereby certify that the information furnished on Form 3C of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (NJSA 58: 10A-1Et seq.) And is subject to penalties as prescribed in NJAC 7: 14-8.

All information listed in this report as to Test No., Depth, Locations, Sample/Collection Dates and Project are as represented to us by the client. Results indicated reflect laboratory test data only on samples submitted by client.

Signature of Laboratory Technician: B. Singh



CLIENT: Wham Engineering Services, Inc.

114 Windsor Road

Robbinsville, New Jersey 08691

DATE: 6/13/24

LAB NO: B-2310-24

PROJECT: Grover Mill Road & Mall Access Road

Lawrence, New Jersey

REPORT NO: AG-5

ON SAMPLE OF: Soil Material

SAMPLED BY: Client

RECEIVED: 6/11/24

MARKED: TP-2A Depth: 8'0"

EXAMINED WITH THE FOLLOWING RESULTS:

1. Grain size Analysis (ASTM D422), Material finer than the #200 (ASTM D-1140).

Sieve Size	% Passing
2"	100
1"	100
3/4"	100
3/8"	91.9
#4	75.5
#10	68.2
#40	35.7
#60	26.5
#100	20.1
#200	16.9
#270	15.9

2. Permeability of Granular Soils (ASTM D2434): 6.2 in/hr. (K-3)

Respectfully Submitted, Certified Testing Laboratories, Inc.

Terry Kifer, General Manager



CLIENT: Wham Engineering Services, Inc.

LAB NO.: B-2310-24

114 Windsor Road

Robbinsville, New Jersey 08691

REPORT NO.: PM-5

PROJECT: Grover Mill Road & Mall Access Road

Lawrence, New Jersey

Reference: New Jersey Department of Environmental Protection - Form 3C - Soil Permeability Class Rating Data

1. Test Number: TP-2A

Replicate (letter): -

2. Sample Depth: 8'0"

Soil Pit Number: -

Date Collected: 6/11/24

3. Coarse Fragment Content:

Total Weight of Sample, WT, Grams: 808.3

Weight of Material Retained on 2mm sieve, WCF Grams: 257.2

Weight % Coarse Fragment (WCF/WT x 100): 31.8

4. Oven Dry Weight (24 hrs., 105°C) of 40 Gram Air Dried Sample, Grams WT: 39.70

5. Hydrometer Calibration, Rc: 3.0 @ 68°F

6. Hydrometer Reading @ 40 Seconds, R1: 11.8

Temperature of Suspension: 70°F

7. Corrected Hydrometer Reading, R1': 11.8-3.6+0.4=9.2

8. Hydrometer Reading @ 2 Hours, R2: 7.3

Temperature of Suspension: 71°F

9. Corrected Hydrometer Reading, R2': 7.3-3.0+0.6=4.9

10. % Sand = $(WT - R1') / WT \times 100 = (39.70 - 9.20) / 39.70 \times 100 = 76.8$

11. % Clay = R2' / WT x 100 = 4.9 / 39.70 x 100 = 12.3

12. Sieve Analysis:

a. Oven Dry Weight (2 hrs., 105°C) Total Sand Fraction

(Soil Retained in 0.047mm Sieve), Grams: 33.4

b. WT of Fine Plus Very Fine Sand Fraction

(Sand Passing 0.25mm Sieve), Grams: 4.2

c. % Fine Plus Very Fine Sand (b/a): 12.6

13. Soil Morphology (Natural Soil Samples Only)

Structure of Soil Horizon Tested: -

Consistency of Soil Horizon Tested Dry: -

Moist: -

14. Soil Permeability Class Rating (Based Upon Average Textural Analysis of This Replicate

and Other Replicate Samples: K-3

15. I hereby certify that the information furnished on Form 3C of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (NJSA 58: 10A-1Et seq.) And is subject to penalties as prescribed in NJAC 7: 14-8.

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Signature of Laboratory Technician: B. Singh



CLIENT: Wham Engineering Services, Inc.

114 Windsor Road

Robbinsville, New Jersey 08691

LAB NO: B-2310-24

DATE: 6/13/24

PROJECT: Grover Mill Road & Mall Access Road

Lawrence, New Jersey

REPORT NO: AG-4

ON SAMPLE OF: Soil Material

SAMPLED BY: Client

RECEIVED: 6/11/24

MARKED: TP-4A Depth: 8'6"

EXAMINED WITH THE FOLLOWING RESULTS:

1. Grain size Analysis (ASTM D422), Material finer than the #200 (ASTM D-1140).

% Passing
100
100
100
100
99.2
97.5
74.3
29.2
8.9
5.7
5.1

2. Permeability of Granular Soils (ASTM D2434): 23.0 in/hr. (K-5)

Respectfully Submitted, Certified Testing Laboratories, Inc.

Terry Kifer, General Manager



CLIENT: Wham Engineering Services, Inc.

LAB NO.: B-2310-24

114 Windsor Road

Robbinsville, New Jersey 08691

REPORT NO.: PM-4

PROJECT: Grover Mill Road & Mall Access Road

Lawrence, New Jersey

Reference: New Jersey Department of Environmental Protection - Form 3C - Soil Permeability Class Rating Data

1. Test Number: TP-4A

Replicate (letter): -

2. Sample Depth: 8'6"

Soil Pit Number: -

Date Collected: 6/11/24

3. Coarse Fragment Content:

Total Weight of Sample, WT, Grams: 544.2

Weight of Material Retained on 2mm sieve, WCF Grams: 13.8

Weight % Coarse Fragment (WCF/WT x 100): 2.5

- 4. Oven Dry Weight (24 hrs., 105°C) of 40 Gram Air Dried Sample, Grams WT: 39.90
- 5. Hydrometer Calibration, Rc: 3.0 @ 68°F
- 6. Hydrometer Reading @ 40 Seconds, R1: 7.0

Temperature of Suspension: 68°F

- 7. Corrected Hydrometer Reading, R1': 7.0-3.0+0.0=4.0
- 8. Hydrometer Reading @ 2 Hours, R2: 5.0

Temperature of Suspension: 71°F

- 9. Corrected Hydrometer Reading, R2': 5.0-3.0+0.6=2.6
- 10. % Sand = $(WT R1') / WT \times 100 = (39.90 4.0) / 39.90 \times 100 = 90.0$
- 11. % Clay = R2' / WT x 100 = 2.6 / 39.90 x 100 = 6.5
- 12. Sieve Analysis:
 - a. Oven Dry Weight (2 hrs., 105°C) Total Sand Fraction

(Soil Retained in 0.047mm Sieve), Grams: 37.9

b. WT of Fine Plus Very Fine Sand Fraction

(Sand Passing 0.25mm Sieve), Grams: 9.6

- c, % Fine Plus Very Fine Sand (b/a): 25.3
- 13. Soil Morphology (Natural Soil Samples Only)

Structure of Soil Horizon Tested: -

Consistency of Soil Horizon Tested Dry: -

Moist: -

- 14, Soil Permeability Class Rating (Based Upon Average Textural Analysis of This Replicate and Other Replicate Samples: K-5
- 15. I hereby certify that the information furnished on Form 3C of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (NJSA 58: 10A-1Et seq.) And is subject to penalties as prescribed in NJAC 7: 14-8.

All information listed in this report as to Test No., Depth, Locations, Sample/Collection Dates and Project are as represented to us by the client. Results indicated reflect laboratory test data only on samples submitted by client.

Signature of Laboratory Technician: B. Singh



CLIENT: Wham Engineering Services, Inc.

114 Windsor Road

Robbinsville, New Jersey 08691

LAB NO: B-2310-24

DATE: 6/13/24

PROJECT: Grover Mill Road & Mall Access Road

Lawrence, New Jersey

REPORT NO: AG-2

ON SAMPLE OF: Soil Material

SAMPLED BY: Client

RECEIVED: 6/11/24

MARKED: TP-7 Depth: 14'0"

EXAMINED WITH THE FOLLOWING RESULTS:

1. Grain size Analysis (ASTM D422), Material finer than the #200 (ASTM D-1140).

Sieve Size	% Passing
2"	100
1"	100
3/4"	86.5
3/8"	63.9
#4	50.6
#10	36.7
#40	12.3
#60	9.0
#100	7.1
#200	5.7
#270	5.1

2. Permeability of Granular Soils (ASTM D2434): 18.5 in/hr. (K-4)

Respectfully Submitted, Certified Testing Laboratories, Inc.

Terry Kifer, General Manager



CLIENT: Wham Engineering Services, Inc.

LAB NO.: B-2310-24

114 Windsor Road

Robbinsville, New Jersey 08691

REPORT NO.: PM-2

PROJECT: Grover Mill Road & Mall Access Road

Lawrence, New Jersey

Reference: New Jersey Department of Environmental Protection - Form 3C - Soil Permeability Class Rating Data

1. Test Number: TP-7

Replicate (letter): -

2. Sample Depth: 14'0"

Soil Pit Number: -

Date Collected: 6/11/24

3. Coarse Fragment Content:

Total Weight of Sample, WT, Grams: 845.8

Weight of Material Retained on 2mm sieve, WCF Grams: 535.6

Weight % Coarse Fragment (WCF/WT x 100): 63.3

4. Oven Dry Weight (24 hrs., 105°C) of 40 Gram Air Dried Sample, Grams WT: 39.80

5. Hydrometer Calibration, Rc: 3.0 @ 68°F

6. Hydrometer Reading @ 40 Seconds, R1: 8.4

Temperature of Suspension: 68°F

7. Corrected Hydrometer Reading, R1': 8.4-3.0+0.0=5.4

8. Hydrometer Reading @ 2 Hours, R2: 5.9

Temperature of Suspension: 72°F

9. Corrected Hydrometer Reading, R2': 5.9-3.0+0.8=3.7

10. % Sand = $(WT - R1') / WT \times 100 = (39.80 - 5.40) / 39.80 \times 100 = 86.4$

11. % Clay = $R2^{1}$ / WT x 100 = 3.7 / 39.80 x 100 = 9.3

12. Sieve Analysis:

a. Oven Dry Weight (2 hrs., 105°C) Total Sand Fraction

(Soil Retained in 0.047mm Sieve), Grams: 37.8

b. WT of Fine Plus Very Fine Sand Fraction

(Sand Passing 0.25mm Sieve), Grams: 1.6

c. % Fine Plus Very Fine Sand (b/a): 4.2

13. Soil Morphology (Natural Soil Samples Only)

Structure of Soil Horizon Tested: -

Consistency 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 Form 3C of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (NJSA 58: 10A-1Et seq.) And is subject to penalties as prescribed in NJAC 7: 14-8.

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Signature of Laboratory Technician: B. Singh



CLIENT: Wham Engineering Services, Inc.

114 Windsor Road

Robbinsville, New Jersey 08691

LAB NO: B-2310-24

DATE: 6/13/24

PROJECT: Grover Mill Road & Mall Access Road

Lawrence, New Jersey

REPORT NO: AG-1

ON SAMPLE OF: Soil Material

SAMPLED BY: Client

RECEIVED: 6/11/24

MARKED: TP-7A Depth: 16'0"

EXAMINED WITH THE FOLLOWING RESULTS:

1. Grain size Analysis (ASTM D422), Material finer than the #200 (ASTM D-1140).

Sieve Size	% Passing
2"	100
1"	100
3/4"	100
3/8"	94.6
#4	89.7
#10	82.9
#40	30.2
#60	19.5
#100	14.9
#200	12.0
#270	11.1

2. Permeability of Granular Soils (ASTM D2434): 18.0 in/hr. (K-4)

Respectfully Submitted, Certified Testing Laboratories, Inc.

Terry Kifer, General Manager



CLIENT: Wham Engineering Services, Inc.

LAB NO.: B-2310-24

114 Windsor Road

Robbinsville, New Jersey 08691

REPORT NO.: PM-1

PROJECT: Grover Mill Road & Mall Access Road

Lawrence, New Jersey

Reference: New Jersey Department of Environmental Protection -- Form 3C -- Soil Permeability Class Rating Data

1. Test Number: TP-7A

Replicate (letter): -

2. Sample Depth: 16'0"

Soil Pit Number: -

Date Collected: 6/11/24

3. Coarse Fragment Content:

Total Weight of Sample, WT, Grams: 681.4

Weight of Material Retained on 2mm sieve, WCF Grams: 116.7

Weight % Coarse Fragment (WCF/WT x 100): 17.1

- 4. Oven Dry Weight (24 hrs., 105°C) of 40 Gram Air Dried Sample, Grams WT: 39.80
- 5. Hydrometer Calibration, Rc: 3.0 @ 68°F
- 6. Hydrometer Reading @ 40 Seconds, R1: 8.4

Temperature of Suspension: 68°F

- 7. Corrected Hydrometer Reading, R1': 8.4-3.0+0.0=5.4
- 8. Hydrometer Reading @ 2 Hours, R2: 6.3

Temperature of Suspension: 72°F

- 9. Corrected Hydrometer Reading, R2': 6.3-3.0+0.8=4.1
- 10. % Sand = $(WT R1') / WT \times 100 = (39.80 5.40) / 39.80 \times 100 = 86.4$
- 11. % Clay = R2' / WT x $100 = 4.1 / 39.80 \times 100 = 10.3$
- 12. Sieve Analysis:
 - a. Oven Dry Weight (2 hrs., 105°C) Total Sand Fraction

(Soil Retained in 0.047mm Sieve), Grams: 35.4

b. WT of Fine Plus Very Fine Sand Fraction

(Sand Passing 0.25mm Sieve), Grams: 3.3

- c. % Fine Plus Very Fine Sand (b/a): 9.3
- 13. Soil Morphology (Natural Soil Samples Only)

Structure of Soil Horizon Tested: -

Consistency 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 Form 3C of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (NJSA 58: 10A-1Et seq.) And is subject to penalties as prescribed in NJAC 7: 14-8.

All information listed in this report as to Test No., Depth, Locations, Sample/Collection Dates and Project are as represented to us by the client. Results indicated reflect laboratory test data only on samples submitted by client.

Signature of Laboratory Technician:

B. Singh

