

TOWNSHIP OF SOUTH BRUNSWICK

Municipal Building Monmouth Junction, NJ 08852

Phone
732-329-4000

TDD
732-329-2017

SOUTH BRUNSWICK TOWNSHIP CERTIFICATE OF COMPLIANCE

PART A: General Information

1. Permitted Activities (Check applicable categories):
Permit Number 2132
☒ New Construction
☐ Alteration/No Expansion or Change of Use
☐ Alteration/Expansion or Change in Use
☐ Alteration/Malfunction of System
☐ Deviation from Standards
☐ Repairs to Existing System
2. Location of Project: 5 Old Nursery Lane
Block Lot BL 100 LOT 3.03
Street Address: 5 Old Nursery Lane
3. Name and Present Address of Applicant: Misha Jallumad
Applicant's Phone Number: 609-273-3376

PART B: Not Applicable to this form.

PART C: Certification by Administrative Authority

I certify under penalty of law that the subsurface sewage disposal system identified in Part A has been located, constructed, installed or altered in compliance with the requirements of N.J.A.C. 7:9A-1 and the Application to Construct/Alter/Repair an Individual Subsurface Sewage Disposal System which was approved by the administrative authority. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Stephen J. Papenberg A-353
Stephen J. Papenberg, Health Officer – A-353

Date: 7/15/09

MCH/maf

cc: Code Enforcement

Property Owner or Engineer

Enclosure: Septic System Care Booklet – E167

WILLIAM M. DORAN and SONS
PROFESSIONAL ENGINEERS, LAND SURVEYORS and PLANNERS
939 RIDGE ROAD, SUITE 1
MONMOUTH JUNCTION, NEW JERSEY, 08852
PHONE 609 - 430 - 0077 FAX 609 - 430 - 0078
E - MAIL WMDORAN@VERIZON.NET

WILLIAM M. DORAN
NJ PE & PLS 15082
NJ PP 04216

DANIEL M. DORAN
NJ PE & PLS 32389
NJ PP 04427
PA PE 57671
PA PLS SU57535

JUL 14 2009

STANDARD FORMS FOR CERTIFICATE OF COMPLIANCE

County MIDDLESEX

Municipality of SOUTH BRUNSWICK

INSTRUCTIONS: Part A is to be completely filled in for all Certifications. Only Part B or Part C will be completed. Part B will be completed if the administrative authority relies upon the certification signed and sealed by a New Jersey licensed professional engineer that the system has been located, constructed, installed or altered in compliance with the requirements of N.J.A.C. 7:9A-I and the Application to Construct/Alter/Repair an Individual Subsurface Sewage Disposal System which was approved by the administrative authority. Part C will be completed if the administrative authority performs the certification.

Part A - General Information

1. Permitted Activities (Check applicable categories):

Permit Number _____
☒ X New Construction
☐ Alteration/No Expansion or Change of Use
☐ Alteration/Expansion or Change in Use
☐ Alteration/Malfunctioning System
☐ Deviation from Standards
☐ Repairs to Existing System

2. Location of Project:

Municipality SOUTH BRUNSWICK
Lot 3.03
Block 100
Street Address 5 OLD NURSERY LANE

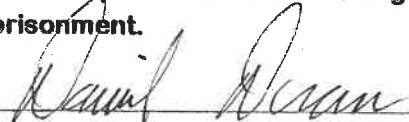
3. Name and Present Address of Applicant:

BRIAN SASSMAN
8 **OLD NURSERY LANE**
SOUTH BRUNSWICK TOWNSHIP

Applicant's Phone Number : 609 - 658 - 1965

Part B-Professional Engineers Certification

I certify under penalty of law that the subsurface sewage disposal system identified in Part A has been located, constructed, installed or altered in compliance with the requirements of N.J.A.C. 7:9A-1 and the Application to Construct/ Alter/Repair an Individual Subsurface Sewage Disposal System which was approved by the administrative authority. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.


(Signature)

SEAL

DANIEL M. DORAN 32389
Name (Type or Print), License #

Date: July 13, 2009

Part C-Certification by Administrative Authority

I certify under penalty of law that the subsurface sewage disposal system identified in Part A has been located, constructed, installed or altered in compliance with the requirements of N.J.A.C. 7:9A-1 and the Application to Construct/ Alter/Repair an Individual Subsurface Sewage Disposal System which was approved by the administrative authority. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Authorized Signature Type of License Held

Name (Typed or Printed) License Number _____

For Agency Use Only

Date Received: _____

Form Determined To Be: _____ Complete _____ Incomplete

Date Returned _____

Date Received _____

Date Certification Approved: _____

Authorized Signature: _____

CERTIFIED TESTING LABORATORIES, INC.

CLIENT: K&A Excavating
198 Major Road
Monmouth Jct., NJ 08852

DATE: 06/26/09

LAB NO.: B-1102-09

PROJECT: Brian Fassman
Block 100, Lot 3.03 - S. Brunswick, NJ

REPORT NO.: AG-4

ON SAMPLE OF: Soil Material

RECEIVED: 06/25/09

SAMPLED BY: Client

MARKED: Preston

EXAMINED WITH THE FOLLOWING RESULTS:

1. Grain size Analysis (ASTM C-136). Material Finer than the #200 (ASTM D-1140).

<u>Sieve Size</u>	<u>% Passing</u>
3/4"	100
3/8"	98.6
#4	95.9
#10	91.1
#40	61.5
#60	27.0
#100	13.0
#200	10.7
#270	9.6



TK/rs

Respectfully Submitted,
CERTIFIED TESTING LABORATORIES, INC.



Terry Kifer, General Manager

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CERTIFIED TESTING LABORATORIES, INC.

PERMEABILITY CLASS RATING DATA – Form 3C

CLIENT: K&A Excavating
198 Major Road
Monmouth Junction, NJ 08852

LAB NO: B-1102-09

REPORT NO.: PM-1

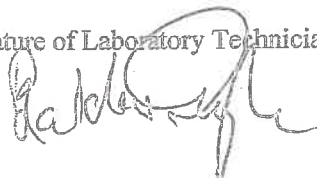
PROJECT: Brian Fassman, Block 100, Lot 3.03 South Brunswick, NJ

1. Test Number: 1 Replicate (letter): --
2. Sample Depth: - Soil Pit/Boring Number: -- Date Collected: 06/25/09
3. Coarse Fragment Content:
 Total Weight of Sample, WT, Grams: 841.5
 Weight of Material Retained on 2mm sieve, WCF Grams: 75.0
 Weight % Coarse Fragment (WCF/WT x 100): 8.9
4. Oven Dry Weight (24 hrs., 105°C) of 40 Gram Air Dried Sample, Grams WT: 39.90
5. Hydrometer Calibration, Rc: 4.0 @ 68°F
6. Hydrometer Reading @ 40 Seconds, R1: 10.0
 Temperature of Suspension: 69.5°F
7. Corrected Hydrometer Reading, R1': $10.0 - 4.0 + 0.3 = 6.3$
8. Hydrometer Reading @ 2 Hours, R2: 7.5
 Temperature of Suspension: 73°F
9. Corrected Hydrometer Reading, R2': $7.5 - 4.0 + 1.0 = 4.5$
10. % Sand = $(WT - R1') / WT \times 100 = (39.90 - 6.30) / 39.90 \times 100 = 84.2$
11. % Clay = $R2' / WT \times 100 = 4.5 / 39.90 \times 100 = 11.3$
12. Sieve Analysis:
 - a. Oven Dry Weight (2 hrs., 105°C) Total Sand Fraction
 (Soil Retained in 0.047mm Sieve), Grams: 36.1
 - b. WT of Fine Plus Very Fine Sand Fraction
 (Sand Passing 0.25mm Sieve), Grams: 6.9
 - c. % Fine Plus Very Fine Sand (b/a): 19.1
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:

Date: 06/26/09



CERTIFIED TESTING LABORATORIES, INC.

CLIENT: K&A Excavating
198 Major Road
Monmouth Jct., NJ 08852

DATE: 06/30/09

LAB NO.: B-1102-09

PROJECT: Brian Fassman
Block 100, Lot 3.03 - S. Brunswick, NJ

REPORT NO.: AG-5

ON SAMPLE OF: Tube Permeameter Sample

RECEIVED: 06/25/09

MARKED: (Brian Fassman) Block 100, Lot 3.03 South Brunswick, NJ

EXAMINED WITH THE FOLLOWING RESULTS: ASTM D2434 (Modified)

<u>Sieve ID</u>	<u>Permeability rate, in/hr (k -)</u>
Block 100, Lot 3.03 06/25/09	16.2 (K-4)



TK/rs

Respectfully Submitted,
CERTIFIED TESTING LABORATORIES, INC.



Terry Kifer, General Manager

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ALLENTOWN TESTING LABORATORIES, INC.

784 EAST FAIRVIEW STREET • BETHLEHEM, PA.

PHONE (215) 645-2674

Inspection • Potting • Research • Chemical Analysis • Industrial Radiology • Soils • X-Ray • Water • Slabs

Sample ID - K & A Excavating
Block 100 Lot 3.03

Permeability (ASTM D2434)

$$h_1 = x \quad h_2 = x \quad h = \frac{h_1 + h_2}{2} =$$

$$P_1 = 3.0 \quad P_2 = 2.5 \quad H_2O = 175 \text{ ml.}$$

$$\text{Time: Start} = 0 \text{ seconds} \quad \text{Finish} = 60 \text{ seconds}$$

$$\text{Total Time (seconds)} = 60 \text{ seconds}$$

$$Q = \frac{H_2O \text{ (ml)}}{\text{Total Time}} = \frac{175}{60} = 2.92$$

$$L = 16.6 \text{ cm}$$

$$A = 81.7130$$

$$H = ((P_1 - P_2) 70.307) + K + L =$$

$$K = \frac{QL}{AH} = \frac{2.92 \times 16.6}{81.7130 \times 51.7535} = \frac{48.42}{4228.9} = 1.14 \times 10^{-2} = \underline{16.2 \text{ in/hr}} \quad (K=4)$$

SEPTIC SYSTEM INSTALLATION FIELD INSPECTION

5 Old Nursery Lane

Address _____

Block 100 Lot 3.03

Permit # _____ Installer Ant BiFulco

Disposal field : location 525 6/20/09

dimensions 120 6/20/09

depth 120 6/20/09 (72")

inspection ports _____

stone _____

filter fabric _____

d-box _____

distribution lines _____

final grading _____

Septic tank: location 6/29/09 120

baffles 6/29/09 120

gas deflector 6/29/09 120

inspection ports 6/29/09 120

manhole 6/29/09 120

fill material 6/29/09 50 (3:56)

engineer's certification and as-builts _____

NOTES:

WILLIAM M. DORAN and SONS
PROFESSIONAL ENGINEERS, LAND SURVEYORS and PLANNERS
14 NEWMAN ROAD
KENDALL PARK, NEW JERSEY, 08824
(732) 297 - 0112

WILLIAM M. DORAN
NJ PE & PLS 15082
NJ PP 04216
NY PE 042600-1

DANIEL M. DORAN
NJ PE & PLS 32389
NJ PP 04427
PA PE 57671
PA PLS SU57535

APPLICATION FOR PERMIT TO CONSTRUCT / ALTER AN INDIVIDUAL SUBSURFACE
SEWAGE DISPOSAL SYSTEM

Municipality SOUTH BRUNSWICK Block 100 Lot 3.03

Form 3d - Percolation Test Data

1. Test # 1 Replicate (letter) _____ Date Tested 11.7 & 11.8
2. Depth (inches) 24" Reference soil log # _____ or show location on site plan
3. Pre-soak:

☐ Sandy textured soil only, shortened pre-soak

Indicate time required for 12 inches of water to drain after second filling, _____ minutes

☒ Four hour pre-soak completed

Indicate Result: ☐ Test hole drained within 16 to 24 hours after pre-soak

☒ Test hole did not drain within 24 hours after pre-soak

4. Rate of Fall Data [as per N.J.A.C. 7:9A-6.4(e)1 - Step One]:

a. Time interval selected, _____ minutes

b. Record the drop in water level during each time interval to the nearest 1/10th-inch on the lines below:

Depth of Water, Start of Interval (inches)	Depth of Water, End of interval (inches)	Drop in Water Level (inches)
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

5. Percolation Rate: > THAN 60 MIN/IN. HYDRAULICALLY RESTRICTIVE HORIZON

a. Time (minutes) required for a six-inch drop in water level _____

b. Percolation rate = $a / 6 =$ _____ / 6 = _____ min / in

6. I hereby certify that the information furnished on Form 3d 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.

Signature of Site Evaluator W. Doran Date 11.8.07

Signature and Seal of Professional Engineer Daniel M. Doran

License # 32389 Date 11.28.07

WILLIAM M. DORAN and SONS
PROFESSIONAL ENGINEERS, LAND SURVEYORS and PLANNERS
14 NEWMAN ROAD
KENDALL PARK, NEW JERSEY, 08824
(732) 297 - 0112

WILLIAM M. DORAN
NJ PE & PLS 15082
NJ PP 04216
NY PE 042600-1

DANIEL M. DORAN
NJ PE & PLS 32389
NJ PP 04427
PA PE 57671
PA PLS SU57535

APPLICATION FOR PERMIT TO CONSTRUCT / ALTER AN INDIVIDUAL SUBSURFACE
SEWAGE DISPOSAL SYSTEM

Municipality SOUTH BRUNSWICK Block 100 Lot 3.03

Form 3d - Percolation Test Data

1. Test # 2 Replicate (letter) _____ Date Tested 11.7 & 11.8
2. Depth (Inches) 26" Reference soil log # _____ or show location on site plan
3. Pre-soak:

___ Sandy textured soil only, shortened pre-soak

Indicate time required for 12 inches of water to drain after second filling, _____ minutes

☒ Four hour pre-soak completed

Indicate Result: ___ Test hole drained within 16 to 24 hours after pre-soak

☒ Test hole did not drain within 24 hours after pre-soak

4. Rate of Fall Data [as per N.J.A.C. 7:9A-6.4(e)1 - Step One]:

a. Time Interval selected, _____ minutes

b. Record the drop in water level during each time interval to the nearest 1/10th-inch on the lines below:

Depth of Water, Start of Interval (inches)	Depth of Water, End of interval (inches)	Drop in Water Level (inches)
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

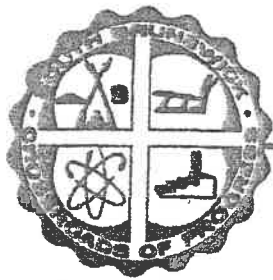
5. Percolation Rate: > THAN 60 MIN/IN. HYDRAULICALLY RESTRICTIVE HORIZON
a. Time (minutes) required for a six-inch drop in water level _____
b. Percolation rate = $a / 6 =$ _____ / 6 = _____ min / in

6. I hereby certify that the information furnished on Form 3d 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.

Signature of Site Evaluator [Signature] Date 11.8.07

Signature and Seal of Professional Engineer [Signature] DORAN

License # 32389 Date 11.08.07



TOWNSHIP OF SOUTH BRUNSWICK

Municipal Building Monmouth Junction, NJ 08852

file
Phone
732-329-4000

TDD
732-329-2017

November 9, 2007

Mr. Dan Doran
14 Newman Road
Kendall Park, N.J. 08824

Re: Individual Subsurface Sewage Disposal System
Block 100, Lot 3:03
Street Address: Mapleton Road

Dear Mr. Doran,

The South Brunswick Township Health Department reviewed the sketch map for the proposed individual subsurface sewage disposal system in accordance with Chapter 9A, "Standards for Construction of Individual Sub-surface Sewage Disposal Systems".

The sketch map and application complies with applicable sections of the Code.

The application will be processed provided there are no revisions required. All required installation inspections must be scheduled with the Health Department at least 48 hours in advance. "As built" drawings must accompany a Licensed Professional Engineer's Certificate of Compliance. If there are any questions in this matter do not hesitate to contact the Health Department (732) 329-4000 ext. 7237.

Sincerely,

Stephen J. Papenberg
Stephen J. Papenberg
Health Officer

SJP/maf
Enclosures: Inspection List
Plan

Cc: Michael Sassman, 978A Ridge Road, Monmouth Jct., NJ 08852
Code

S/depts/health/letters/spapenbe/B100L3.03

WILLIAM M. DORAN and SONS
PROFESSIONAL ENGINEERS, LAND SURVEYORS and PLANNERS
14 NEWMAN ROAD
KENDALL PARK, NEW JERSEY, 08824
(732) 297 - 0112

Paid 6/25/07 Receipt # 99966
Septic Appl \$150
Septic Permit \$100 -
JUN 25 2007 \$250
check # 056 1204
WILLIAM M. DORAN
NJ PE & PLS 15082
NJ PP 04216
DANIEL M. DORAN
NJ PE & PLS 32389
NJ PP 04427
PA PE 57671
PA PLS SU57535

APPENDIX B
STANDARD FORMS FOR SUBMISSION OF SOILS/ENGINEERING DATA

COUNTY Middlesex **MUNICIPALITY** South Brunswick **DATE** 6-17-07
Form I

General Information

1. Type of Permit Needed (Check applicable categories):

☐ New Construction ☐ Alteration - No Expansion or Change of Use
☒ Alteration - Expansion or Change in Use ☐ Alteration - Malfunctioning System
☐ Deviation from Standards ☐ Repairs to Existing System

2. Location of Project: Municipality South Brunswick **Block No.** 100 **Lot No.** 3.03
Street Address Mapleton Road

3. Name of Applicant (print): Michael Sassman

4. Applicant's Present Address: 978 A Ridge Rd. Monmouth Junction, NJ 08852

5. Applicant's Phone Number: () 609-273-3376

6. Type Of Facility: ☒ Residential ☐ Commercial ☐ Institutional
Specify Type of Establishment: _____

7. Type of Wastes to be Discharged:

☒ Sanitary Sewage ☐ Industrial Wastes ☐ Other-Specify Type _____

8. Other Approvals/Certification/Waivers/Exemptions (Attach to Application):

☐ Pinelands Commission ☐ U.S. Army Corps of Engineers
☐ NJDEP-Bureau of Flood Plain Management ☒ Other-Specify: no sep system because no permit

9. I hereby certify that the information furnished on Form I of this application is true. I am aware that false swearing is a crime in this State and subject to prosecution.

Michael Sassman 6.21.07
Signature of Applicant Date

FOR AGENCY USE ONLY

☐ **Application Denied-Reason for Denial/Citation of Rules Violated:**

☒ **Application Approved**

☐ **Application Approved Subject to Approval by NJDEP**

11/9/07 *Stephen J. Brennan* Stephen J. Brennan, Municipal Engineer NJ
Date of Action - Signature of Authorized Agent / Name and Title

Form 2a

General Site Evaluation Data

Block 100 Lot 3.03, South Brunswick Twp., Sassman

1. Name of Site Evaluator (print): Daniel M. Doran
2. Business Address of Site Evaluator: 14 Newman Rd. Kendall Park, NJ 08824
3. Business Phone Number of Site Evaluator: () 732-297-0112
4. Special Site Limitations Identified (Check appropriate Categories):
☒ Flood Plains ☐ Bedrock Outcrops ☐ Wetlands ☐ Excessively Stony
☐ Disturbed Ground ☐ Sink Holes ☐ Sand Dunes ☐ Steep Slopes
☐ Other-Specify: _____
5. Soil Logs-Enter on Form 2b-Use one sheet for each soil log.
6. Considerations Relating to Disturbed Ground:
 - a) Type of Disturbance (Check appropriate categories):
☐ Filled Area ☐ Excavated Area ☐ Re-graded Area ☐ Subsurface Drains
☐ Other-Specify : _____
 - b) Pre-existing Natural Ground Surface

Elevation Relative to Existing Ground Surface
Method of Identification: _____
 - c) Suitability of Disturbed Ground
☐ Unsuitable: Objects Subject to Disintegration or Change in Volume
☐ Excessively Coarse
☐ Proctor Test performed ☐ % Standard Proctor Density = _____
7. Hydraulic Head Test:
 - a) Hydraulically Restrictive Horizon: Depth Top to Bottom
 - b) Piezometer A: Depth to Bottom - Depth of Water Level (24 hrs)
 - c) Piezometer B: Depth to Bottom - Depth of Water Level (24 hrs)
 - d) Witnessed by - Signature - Date _____
8. Attachments (Check items included):
☒ Site Plan ☒ Key Map Showing Location of Site On U.S.G.S. Quadrangle or Other Accurate Map
☒ Key Map Showing Location of Site on U.S.D.A. Soil Survey Map ☐ Other-Specify: _____

9. I hereby certify that the information furnished on Form 2a of this application (and the attachments thereto) 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 _____

(If no signature Professional Engineer was Soil Evaluator)

Signature of Professional Engineer/ License #/Date _____

Daniel Doran 4.17.07
NJ PE 32389

Form 2b

Soil Log and Interpretation

Municipality South Brunswick Twp **Lot** 3.03 **Block** 100

1. Log Number - Method (Check One): ☒ **Profile Pit** ☐ **Boring**

2. Soil Log 7A **Depth (inches)** 120"

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

SOIL LOG #7A

0 - 14"	10YR 5/3 SILT LOAM, SUBANGULAR MODERATE MEDIUM, MOIST, FRIABLE, COMMON ROOTS
14" - 38"	10YR6/4 SANDY CLAY LOAM, SUBANGULAR WEAK MEDIUM, MOIST, FRIABLE, FEW ROOTS, COMMON MEDIUM DISTINCT 10YR6/6 MOTTLES 24"-44" (PERCHED)
38" - 58"	7.5YR5/2 LOAMY SAND, 15% GRAVEL 5% COBBLES, GRANULAR MEDIUM, MOIST, LOOSE
58" - 72"	10YR5/3 SAND, 15% GRAVEL 5% COBBLES 5% BOULDERS, GRANULAR MEDIUM, SATURATED, LOOSE, COMMON MEDIUM DISTINCT 10YR6/8 MOTTLES 58"-72"
72" - 120"	10YR6/4 SAND, 10% GRAVEL 5%, GRANULAR MEDIUM, SATURATED, LOOSE, COMMON MEDIUM DISTINCT 10YR7/2 MOTTLES 72"-120" SEEPAGE ENCOUNTERED AT 58"

3. Ground Water Observations:

☒ **Seepage -at a depth of: 58"** (inches from top)

☐ **Pit/Boring Flooded - at a depth of: _____ after _____ Hours**(inches from top)

4. Soil Limiting Zones (Check Appropriate Categories):

☐ **Fractured Rock Substratum-Depth to Top**

☐ **Massive Rock Substratum-Depth to Top**

☐ **Excessively Coarse Horizon-Depth Top to Bottom**

☐ **Excessively Coarse Substratum-Depth to Top**

☐ **Hydraulically Restrictive Horizon-Depth Top to Bottom**

☐ **Hydraulically Restrictive Substratum-Depth to Top**

☒ **Perched Zone of Saturation-Depth Top to Bottom 14"-38"**

☒ **Regional Zone of Saturation-Depth to Top, 58"**

5. Soil Suitability Classification: IIWr, IIIWp

6. 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-l et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Site Evaluator/ Date(If no signature Professional Engineer is the Site Evaluator)

	<u>32389</u>	<u>6.17.07</u>
Signature of Professional Engineer	License #	Date

WILLIAM M. DORAN and SONS

PROFESSIONAL ENGINEERS, LAND SURVEYORS and PLANNERS

14 NEWMAN ROAD

KENDALL PARK, NEW JERSEY, 08824

(732) 297 - 0112

WILLIAM M. DORAN

NJ PE & PLS 15082

NJ PP 04216

DANIEL M. DORAN

NJ PE & PLS 32389

NJ PP 04427

PA PE 57671

PA PLS SU57535

Form 2b**Soil Log and Interpretation**Municipality South Brunswick Twp Lot 3.03 Block 1001. Log Number - Method (Check One): ☒ Profile Pit ☐ Boring2. Soil Log 7 Depth (inches) 120"**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**

SOIL LOG #7

0 - 12"	10YR 5/3 SILT LOAM, SUBANGULAR MODERATE MEDIUM, MOIST, FRIABLE, COMMON ROOTS
12" - 30"	10YR 7/2 SILT LOAM, BLOCKY STRONG MEDIUM, MOIST, FRIABLE, FEW ROOTS, COMMON MEDIUM DISTINCT 10YR 6/8 MOTTLES 15"-30" (PERCHED)
30" - 70"	7.5YR 5/4 LOAMY SAND, 20% GRAVEL 10% COBBLES, GRANULAR MEDIUM, MOIST, LOOSE
70" - 120"	2.5Y 6/7 SAND, 25% GRAVEL 15%, GRANULAR COARSE, SATURATED, LOOSE, COMMON MEDIUM DISTINCT 10YR 7/8 MOTTLES 70"-120" SEEPAGE ENCOUNTERED AT 70"

3. Ground Water Observations:☒ Seepage - at a depth of: 70" (inches from top)☐ Pit/Boring Flooded - at a depth of: _____ after _____ Hours (inches from top)**4. Soil Limiting Zones (Check Appropriate Categories):**☐ Fractured Rock Substratum-Depth to Top☐ Massive Rock Substratum-Depth to Top☐ Excessively Coarse Horizon-Depth Top to Bottom☐ Excessively Coarse Substratum-Depth to Top☐ Hydraulically Restrictive Horizon-Depth Top to Bottom☐ Hydraulically Restrictive Substratum-Depth to Top☒ Perched Zone of Saturation-Depth Top to Bottom 15"-30"☒ Regional Zone of Saturation-Depth to Top, 70"**5. Soil Suitability Classification: IIWr, IIIWp**

6. 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.

Signature of Site Evaluator/ Date (If no signature Professional Engineer is the Site Evaluator)

Daniel Doran 32389 6.17.07

Signature of Professional Engineer

License #

Date



PRINCETON JUNCTION ENGINEERING, P.C.
PROFESSIONAL ENGINEERS AND LAND SURVEYORS

BRYCE M. RITTENHOUSE, P.E., L.S. & P.P.*
D. GEOFFREY BROWN, P.E., L.S. & P.P.*
WESLEY J. LANE, L.S. & P.P.*
FRANK J. FALCONE, L.S. & P.P.*
TED W. PIVOVARNIK, L.S.
MARTIN D. KATZ, L.S.

Soil Permeability Class Rating Test Data for Existing Soil

NORTH POST ROAD
P.O. Box 610
PRINCETON JUNCTION, NJ 08550

609.799.1906
FAX: 609.799.1524
EMAIL: PJEPC@PJEPC.COM
*NJ & PA LICENSED

Client: Maple Twon Associates, LLC
Location:
Test No.: 7A
Date Collected: 9/15/04

Lot: 7A Block: 100
Township: South Brunswick
Replicate (letter): A and B
Date Tested: 10/07/04

1.	Coarse Fragment Content:		
	Sample Depth	72"	
	Total Weight of Sample, W.T., grams:	1789.8	
	Weight of Material Retained on 2mm sieve, W.C.F., grams:	114.8	
	Wt.% Coarse Fragments (W.C.F. / W.T.) x 100:	6.4	
2.	Oven Dry Weight:		
	40 gram Air Dry Sample (24 hrs at 105°C), grams, Wt.:	39.9	
3.	Hydrometer Calibration, Rc:		
		4.0	
4.	Hydrometer Reading:		
		A	B
	40 Seconds, Grams, R1:	6.0	6.0
	Temperature of Suspension, °F:	65	65
	Corrected Hydrometer Reading, grams, R1 ¹ :	1.4	1.4
5.	Hydrometer Reading:		
		A	B
	2 Hours, Grams, R2:	5.0	5.0
	Temperature of Suspension, °F:	65	65
	Corrected Hydrometer Reading, grams, R2 ¹ :	0.4	0.4
6.	A. % Sand =	$(Wt. - R1^1) / Wt. \times 100 = (39.9 - 1.4) / 39.9 \times 100 = 96.5$	
	B. % Sand =	$(Wt. - R1^1) / Wt. \times 100 = (39.9 - 1.4) / 39.9 \times 100 = 96.5$	
7.	A. % Clay =	$R2^1 / Wt. \times 100 = 0.4 / 39.9 \times 100 = 1.0$	
	B. % Clay =	$R2^1 / Wt. \times 100 = 0.4 / 39.9 \times 100 = 1.0$	
8.	Sieve Analysis:		
		A	B
	A. Oven Dry Weight (2Hrs., 105°C) Total Sand Fraction (Soil Retained in 0.05mm sieve, grams:	39.0	38.8
	B. Weight of Fine plus Very Fine Sand Fraction (Sand Passing 0.25mm sieve), grams:	1.0	1.1
	C. Percent Fine plus Very Fine Sand (B / A):	2.6	2.8
	Soil Morphology	Granular, Medium, Loose Saturated	
9.	Soil Permeability Class Rating: K5, Sand		
10.	I hereby certify that the information furnished on 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 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.		
Signature of Site Evaluator:		Steve Ciaccio	Date: 10/07/04
Signature of Professional Engineer:		D. Geoffrey Brown	NJPE&LS#: 24327

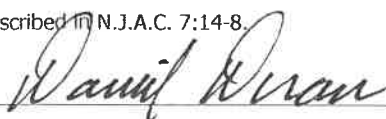
Affix Seal

Form 4

General Design Data: Block 100 Lot 3.03, Sassman

1. Volume of Sanitary Sewage, gal. 650
☒ Residential: 1 No. of Dwelling Units 4 Total No. of Bedrooms
☐ Commercial/Institutional - Indicate type of establishment and show method of calculation. If estimate is based on water meter data, indicate source of data, frequency of readings, average daily flow, and maximum recorded daily reading: type of establishment _____ Volume _____ Method _____
2. Alterations or Repairs
a) Reason for Alteration or Repair (Check appropriate categories):
☒ Expansion or Change in Use ☐ Upgrade Existing Facilities ☐ Correct Malfunctioning System
☐ Other Specify _____
b) Describe Nature of Alteration or Repairs: NEW SYSTEM
3. System Components:
a) Grease Trap Capacity, gals _____
Show Calculation Used: _____
b) Septic Tank Capacities, gals: 1000 First (Single) Compartment _____ Second Compartment _____ Third Compartment _____
c) Effluent Distribution
Method: ☐ Gravity Flow ☐ Gravity Dosing ☒ Pressure Dosing
Dosing Device: ☒ Pump ☐ Siphon
d) Dosing Tank Capacities, gals: 1500 Total Capacity 99.12 Dose Volume (V d) 1070 Reserve Capacity
e) Laterals: Number of 12 Total Length 21 (feet) Pipe Diameter 1 (inches) Spacing 36 (inches)
f) Connecting Pipe: Diameter 3 (inches) Length 63 (feet)
g) Manifold: Diameter 3 (inches) Length 21 (feet)
h) Disposal Field: Type of Installation BOTTOM LINED, FILL ENCLOSED
Design Permeability 3 TO 14 MIN./IN (Percolation Rate)
Trenches: Width _____ (inches) Total Length _____ (feet) Bed: Area 1014 (sq. ft.)
i) Seepage Pits: Design Percolation Rate _____
Number of Pits _____ Total Percolating Area Provided _____
4. Attachments (Check items included):
☒ General Plan of System Showing Location of All System Components
☒ X-Sections of Each System Component Including Grease Trap, Septic Tank, Dosing Tank, Disposal Field, Seepage Pits and Interceptor Drains
☒ Pump Performance Curve
☐ Other-Specify _____

5. I hereby certify that the information furnished on Form 4 of this application (and attachments thereto) 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 Professional Engineer/ Date

6-17-07

WILLIAM M. DORAN and SONS
PROFESSIONAL ENGINEERS, LAND SURVEYORS and PLANNERS
14 NEWMAN ROAD
KENDALL PARK, NEW JERSEY, 08824
(732) 297 - 0112

WILLIAM M. DORAN
NJ PE & PLS 15082
NJ PP 04216

DANIEL M. DORAN
NJ PE & PLS 32389
NJ PP 04427
PA PE 57671
PA PLS SU57535

FORM 5 DESIGN OF PRESSURE DOSING SYSTEM DATE 6-17-07

MUNICIPALITY SOUTH BRUNSWICK BLOCK 100 LOT 3.03

DAILY VOLUME OF SEWAGE (Q) 650 GPD, DESIGN PERMEABILITY _____ IN/HR, OR
PERCOLATION RATE 3-14 MN/IN

1. CONFIGURATION OF DISTRIBUTION NETWORK:

A) TYPE OF MANIFOLD _____ END OR X CENTRAL

B) DISTRIBUTION LATERALS: NUMBER OF: 12, LENGTH 21 FT., DIAMETER 1 INCHES,

2. LATERAL DISCHARGE RATE:

DESIGN PRESSURE AT DISTAL END OF LATERALS, (H_p), 2.5 FT.,

ORIFACE: DIAMETER 1/4" INCHES, SPACING 36 INCHES, ORIFACE DISCHARGE RATE 1.18 GPM,

NUMBER OF ORIFACES PER LATERAL 7, LATERAL DISCHARGE RATE 8.26 GPM

3. SYSTEM DISCHARGE RATE: 99.12 GPM

4. MANIFOLD: LENGTH 21.75 FT., DIAMETER 3 INCHES,

5. DOSE VOLUME: (V_D) 162.5 GALLONS (MAXIMUM 25% Q)

6. INTERNAL VOLUME OF DISTRIBUTION NETWORK, (V)

TOTAL LATERAL VOLUME (V_L) _____ GALLONS, TOTAL MANIFOLD VOLUME (V_M) _____ GALLONS

TOTAL DELIVERY PIPE VOLUME (V_P) _____ GALLONS

7. PUMP SELECTION:

TOTAL OPERATING HEAD: 9.82 FT

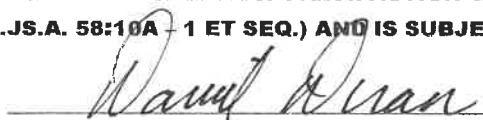
DELIVERY PIPE : LENGTH 63 FT., DIAMETER 3 INCHES, FRICTION LOSS (H_f) 1.32 FT.

ELEVATION HEAD (H_e) 6 FT., ELEVATION OF: LOW WATER MARK 50.25, LATERAL INVERT 55.87

DESIGN PRESSURE (H_p) 2.5 FT

PUMP: MODEL GOULDS, 3885, SERIES WE1012H, HORSEPOWER 1

I, HEREBY CERTIFY THAT THE INFORMATION FURNISHED ON FORM 5 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.


SIGNATURE OF PROFESSIONAL ENGINEER

32389
LICENSE #

6-17-07
DATE



Submersible Effluent Pump

MODEL 3885

WE Series

PROSURANCE AVAILABLE FOR RESIDENTIAL APPLICATIONS.

APPLICATIONS

Specifically designed for the following uses:

- Homes
- Farms
- Trailer courts
- Motels
- Schools
- Hospitals
- Industry
- Effluent systems

SPECIFICATIONS

Pump

- Solids handling capabilities: $\frac{3}{4}$ " maximum.
- Discharge size: 2" NPT.
- Capacities: up to 140 GPM.
- Total heads: up to 128 feet TDH.
- Temperature: 104°F (40°C) continuous 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

FEATURES

- **Impeller:** Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.
- **Casing:** Cast iron volute type for maximum efficiency. 2" NPT discharge.
- **Mechanical Seal:** SILICON CARBIDE VS. SILICON CARBIDE sealing faces. Stainless steel metal parts, BUNA-N elastomers.

■ **Shaft:** Corrosion-resistant, stainless steel. Threaded design. Locknut on all models to guard against component damage on accidental reverse rotation.

■ **Fasteners:** 300 series stainless steel.

■ Capable of running dry without damage to components.

■ Designed for continuous operation when fully submerged.

MOTORS

■ Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.

■ Class B insulation on $\frac{1}{2}$ -1 $\frac{1}{2}$ HP models.

■ Class F insulation on 2 HP models.

Single phase (60 Hz):

- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.
- SJTOW or STOW severe duty oil and water resistant power cords.
- $\frac{1}{2}$ - 1 HP models have NEMA three prong grounding plugs.
- 1 $\frac{1}{2}$ HP and larger units have bare lead cord ends.

Three phase (60 Hz):

- Class 10 overload protection must be provided in separately ordered starter unit.
- STOW power cords all have bare lead cord ends.

■ **Designed for Continuous Operation:** Pump ratings are within the motor manufacturer's recommended working limits,

can be operated continuously without damage when fully submerged.

■ **Bearings:** Upper and lower heavy duty ball bearing construction.

■ **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.

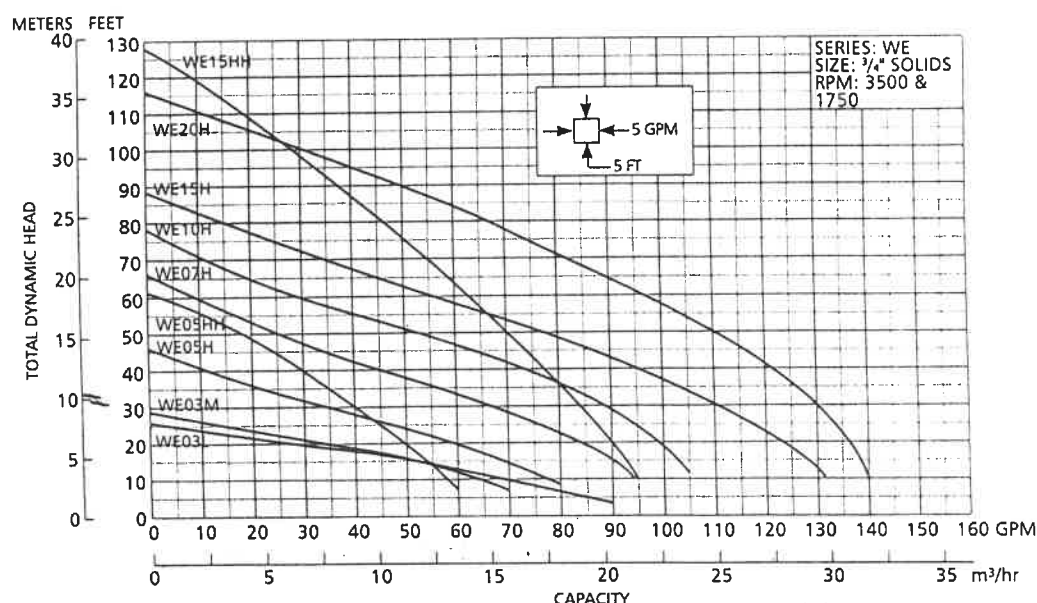
■ **O-ring:** Assures positive sealing against contaminants and oil leakage.

AGENCY LISTINGS

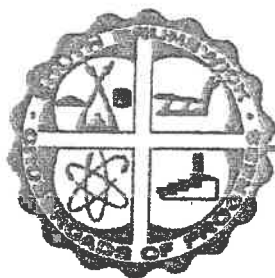


Tested to UL 778 and CSA 22.2 108 Standards By Canadian Standards Association File #LR38549

Goulds Pumps is ISO 9001 Registered.



Goulds Pumps



TOWNSHIP OF SOUTH BRUNSWICK

Municipal Building Monmouth Junction, NJ 08852

Phone
732-329-4000

TDD
732-329-2017

~~November~~
September 8, 2007

Geniene Streeter
29 Townsend Court
Franklin Park, N.J. 08823

Dear Ms. Streeter,

Please be advised that as of November 7, 2007 the new septic system proposed for Block 100, Lot 3.03 has not yet been approved. After meeting with the Engineer for the project on November 1, 2007, I anticipate the approval for the septic system will be issued within 10 days.

If you have any additional questions, feel free to contact me at 732-329-4000 ext. 7237. Thank you.

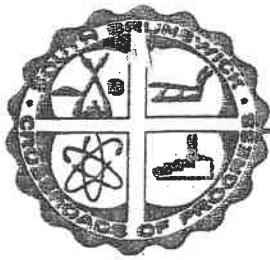
Sincerely,

Stephen J. Papenberg
Health Officer

SJP/maf

s/depts/health/letters/spapenbe/Streeter 2007

1/11



TOWNSHIP OF SOUTH BRUNSWICK

Municipal Building Monmouth Junction, NJ 08852

Phone
732-329-4000

TDD
732-329-2017

FAX COVER SHEET

TO: GENINE STANLEY Fax #: 732-422-7049

FROM: Steve Papenobly, Health Department

DATE: 11/9/07

REF: maplewood appraisal

of Pages: 2 (including cover sheet)

Comments: _____

If you have any problems or do not receive all of the pages, please contact
the South Brunswick Health Department at:

(732) 329-4000 ext 7238 / (732) 329-4168 fax number

TRANSMISSION VERIFICATION REPORT

TIME : 11/09/2007 09:07
NAME : SBT HEALTH
FAX : 7323294168
TEL : 7323294000
SER.# : BROA3J983117

DATE, TIME
FAX NO./NAME
DURATION
PAGE(S)
RESULT
MODE

11/09 09:06
97324227049
00:00:38
02
OK
FINE
ECM



TOWNSHIP OF SOUTH BRUNSWICK

Municipal Building Monmouth Junction, NJ 08852

Phone
732-329-4000

TDD
732-329-2017

FAX COVER SHEET

TO: GENINE STAGGER Fax #: 732-422-7049

FROM: STEVE PAPERNOBY, Health Department

DATE: 11/9/07

REF: mapleton appraisal

of Pages: 2 (including cover sheet)

Comments: _____

**Township of South Brunswick
Monmouth Junction, NJ 08852**

No. 77968

Name

Michael R. Seaman

Address

978A Ridge Rd

City

Monmouth Jct. NJ 08852

DEPARTMENT:

DATE:

6/2/06

Clerk

☐

Health

☒

Public Works

☐

Engineering

☐

Police

☐

Recreation

☐

Fire Marshall

☐

Planning

☐

Tax Assessor

☐

Tax Collector

☐

Zoning Board

☐

Office on Aging

☐

Miscellaneous:

Revenue Collections Description:

(2) Spec. Applications (3120)

300-

(2) Spec. Permit (3120)

200-

(2) B 100 / L 303

(2) B 100 / L 301

#656 (200-)

Check

Cash

Check If
Special Trust

☐

Rec'd By

KLK

500-