

**Form 1 - General Information**

County/Municipality: Sussex / Andover Township

1. Type of Permit Needed - (Check Applicable Categories):

- a. New Construction
- b. Alteration/No Expansion or Change in Use
- c. Alteration/Expansion or Change in Use
- d. Alteration/Malfunctioning System
- e. Repair (in-kind replacement)/Malfunctioning System
- f. Repair (in-kind replacement)/System not malfunctioning
- g. Deviation From Standards
- h. New System installed (existing structure)

2. Location of Project:

Municipality: Andover Township Block: 155 Lot: 5.01  
 Street Address: 474-476 Route 206 South Zip: 07860

3. Name of Applicant: Feels of Green

4. Applicant's Present Address: 123 Old Prospect School Road, Sparta, NJ 07871

5. Applicant's Phone Number: 973-444-3079

6. Type of Facility:

- Residential
- Commercial/Industrial

7. Type of Waste to be Discharged:

- Sanitary Sewage
- Industrial Waste
- Other - Specify

**A service and maintenance contract is a condition of approval and is required to be in a place at all times**

8. If d. or e. in 1. above are checked, indicate the type of malfunction and its cause (check all that apply):

- Contamination of nearby wells or surface water bodies by sanitary sewage or effluent
- Ponding or breakout of sanitary sewage or effluent onto the surface of the ground
- Seepage of sanitary sewage or effluent into portions of building below ground
- Back-up of sewage/effluent into building served (not caused by physical blockage of internal plumbing)
- Any manner of leakage observed from components that are not designed to emit sanitary sewage or effluent
- Direct discharges to ground water (no zone of treatment)

Describe the cause of the malfunction: \_\_\_\_\_

**ALTERATION**

9. Please expand on Question #1, above, by checking if any of the following apply):

- A privy, outhouse, latrine or pit toilet is present, a system must be installed,
- A system must be upgraded as part of a real property transfer,
- A cesspool has been identified during a real property transfer and a conforming system must be installed,
- A malfunctioning cesspool has been identified and a conforming system must be installed.

10. Other Approvals/Certifications/Waivers/Exemptions (Attach to Application):

- Pinelands Commission
- Highlands Water Protection/Planning Act
- U.S. Army Corps of Engineers
- NJDEP-Bureau of Field In Mgmt
- Other - Specify NJDEP Permit-By-Rule & GP-24

11. I hereby certify that the information furnished on Form 1 of this application is true. I am aware that false swearing is a crime in this State and is subject to prosecution.

Signature of Applicant: \_\_\_\_\_

Jennifer Condon  
Jennifer Condon (Apr 17, 2023 12:58 EDT)

Date: 4/17/2023

**FOR AGENCY USE ONLY**

Application Denied - Reason for Denial/Citation of Rules Violated: \_\_\_\_\_

Application Approved \_\_\_\_\_

Application Approved Subject to Approval by NJDEP \_\_\_\_\_

Date of Action \_\_\_\_\_

Signature of Authorized Agent \_\_\_\_\_

SEWAGE SYSTEM DESIGN APPROVED BY,  
SUSSEX COUNTY DEPARTMENT OF  
HEALTH AND HUMAN SERVICES

Sussex / Andover Township

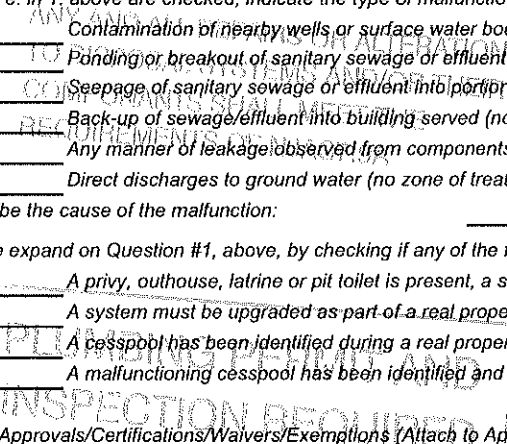
Name and Title \_\_\_\_\_

SIGNED \_\_\_\_\_

DATE \_\_\_\_\_

5/3/23  
6 pcy

34215



**Form 2a - General Site Evaluation Data**

Lot: 5.01 Block: 155

1. Name of Site Evaluator: Jeffrey R. Houser, P.E.  
Houser Engineering, LLC
2. Business Address of Site Evaluator: 1141 Greenwood Lake Tpke, Ringwood, NJ 07456
3. Business Phone Number of Site Evaluator: 973-728-2945

4. Special Site Limitations Identified (Check Appropriate Categories):
- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Flood Plains      | <input type="checkbox"/> Bedrock Outcrops | <input type="checkbox"/> Wetlands         |
| <input type="checkbox"/> Excessively Stony | <input type="checkbox"/> Disturbed Ground | <input type="checkbox"/> Sink Holes       |
| <input type="checkbox"/> Sand Dunes        | <input type="checkbox"/> Steep Slopes     | <input checked="" type="checkbox"/> Other |
| <b>Limited Area</b>                        |   |   |

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):
- |   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> Filled Area | <input type="checkbox"/> Excavated Area  | <input type="checkbox"/> Re-graded Areas |
| <input type="checkbox"/> Subsurface Drains      | <input type="checkbox"/> Other - Specify |  |

- b) Pre-existing Natural Ground Surface
- |   |                         |
|---|-------------------------|
| Elevation Relative to Existing Ground Surface | <u>36 inches</u>        |
| Method of Identification                      | <u>Soil Profile Pit</u> |

- c) Suitability of Disturbed Ground
- |  |
|--|
| <input type="checkbox"/> Unsuitable: Objects Subject to Disintegration or Change in Volume |
| <input type="checkbox"/> Excessively Coarse  |
| Proctor Test Performed _____ % Standard Proctor Density = _____                            |

7. Hydraulic Head Test:

- a. Hydraulically Restrictive Horizon: Depth to Top to Bottom \_\_\_\_\_
- b. Piezometer A; Depth to Bottom \_\_\_\_\_ Depth of Water Level (24hrs) \_\_\_\_\_
- c. Piezometer B; Depth to Bottom \_\_\_\_\_ Depth of Water Level (24hrs) \_\_\_\_\_
- d. Witnessed By \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

8. Attachments (Check Items Included):

- |   |
|---|
| <input checked="" type="checkbox"/> Site Plan   |
| <input checked="" type="checkbox"/> Key Map Showing Location of Site on USGS Quadrangle or Other Accurate Map |
| <input checked="" type="checkbox"/> Key Map Showing Location of Site on USDA Soil Survey Map                  |
| <input type="checkbox"/> 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. 58:10 A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Soil Evaluator

Jeffrey R. Houser

Date: 4/5/2023

Signature of Professional Engineer

Jeffrey R. Houser

License # 24GE04747700

Sussex / Andover Township

**Form 2b - Soil Log and Interpretation**  
**Sussex / Andover Township**

Lot: 5.01 Block: 155

1. Log No. 1 Method X Profile Pit  
(Check One)                      Boring

2. Soil Log

Depth Top-Bot (inches)	Munsell Color Number	Estimated Textural Class	Volume Coarse Fragments	Structure	Moist or Dry Consistence	Mottling - Abundance, Size and Contrast
0-19	-	Top Soil	-	-	-	
19-48	10YR6/4	Sandy Clay Loam	5%, 10%, 10%	SAB	M:Friable	38"-48" 10YR6/2 10YR5/6 Com/Med/Dist

Sample Depth 42 inches  
SHGW 38 inches  
Mottling 38 inches  
Ledge 48 inches  
Roots 38 inches

3. Ground Water Observations:  
X Seepage - Indicate Depth 45"  
- Pit/Boring Flooded Depth - After 0.5 Hours

4. (Check Appropriate Categories):  
                     Fractured Rock Substratum - Depth to Top  
X Massive Rock Substratum - Depth to Top 48 inches  
                     Excessively Coarse Horizon - Depth Top to Bottom  
                     Excessively Coarse Substratum - Depth to Top  
                     Hydraulically Restrictive Horizon - Depth to Top to Bottom  
                     Hydraulically Restrictive Substratum - Depth to Top  
                     Perched Zone of Saturation - Depth Top to Bottom  
X Regional Zone of Saturation - Depth to Top 38 inches

5. Soil Suitability Classification: IISr/IIWr

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 Jeffrey R. Hennes  
Signature of Professional Engineer Jeffrey R. Hennes

Date: 4/5/2023  
License # 24GE04747700

**Form 2b - Soil Log and Interpretation**  
**Sussex / Andover Township**

Lot: 5.01 Block: 155

1. Log No. 2 Method X Profile Pit  
(Check One)          Boring

2. Soil Log

Depth Top-Bot (inches)	Munsell Color Number	Estimated Textural Class	Volume Coarse Fragments	Structure	Moist or Dry Consistence	Mottling - Abundance, Size and Contrast
0-36	-	Fill	-	-	-	
36-106	10YR6/4	Sandy Clay Loam	5%, 10%, 5%	SAB	M:Friable	57"-60" 10YR6/2 10YR5/6 Com/Medium/Distinct

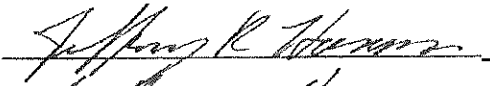
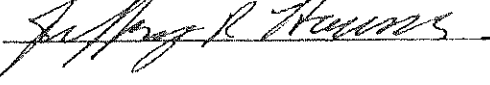
Sample Depth 60 inches  
SHGW 57 inches  
Mottling 57 inches  
Ledge 106 inches  
Roots To Surface inches

3. Ground Water Observations:  
X Seepage - indicate Depth 57"  
- Pit/Boring Flooded Depth - After 0.5 Hours

4. (Check Appropriate Categories):  
         Fractured Rock Substratum - Depth to Top  
X Massive Rock Substratum - Depth to Top 106"(70" w/o fill)  
         Excessively Coarse Horizon - Depth Top to Bottom  
         Excessively Coarse Substratum - Depth to Top  
         Hydraulically Restrictive Horizon - Depth to Top to Bottom  
         Hydraulically Restrictive Substratum - Depth to Top  
         Perched Zone of Saturation - Depth Top to Bottom  
X Regional Zone of Saturation - Depth to Top 57" (21" w/o fill)

5. Soil Suitability Classification: II Sr/III Wr

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   
Signature of Professional Engineer 

Date: 4/5/2023

License # 24GE04747700

**Form 3a. - Soil Permeability Data**

Lot: 5.01

Block: 155

Assign a number for each test and a letter for each test replicate. Show test data and calculations on Form 3b, 3d, 3e, 3f, or 3g. Use one sheet for each separate test or test replicate.

1. Summary of Data - Enter data for each test replicate on separate line

Type of Test	Test (number)	Replicate (letter)	Depth (Inches)	Result*
Soil Permeability Class Rating	1	A	42	K3
Soil Permeability Class Rating	1	B	42	K3
Soil Permeability Class Rating	2	A	60	K3
Soil Permeability Class Rating	2	B	60	K3

\* For tube perimeter, pit-bailing, and piezometer tests, reports results in inches/hour. For Soil Permeability Class Rating give soil permeability class number. For Percolation Test, Report result in minutes/inches. For Basin Flooding Test, report result as positive if basin drains completely within 24 hours after second filling, negative otherwise.

2. Design Permeability/Percolation Rate: Specify Test Number

1-A

- Average of Test Replicates  
 Slowest of Replicates  
 Single Replicate

3.

Type of Limiting Zone Identified	Test Number

4. Attachments (Check items included):

- |   |                  |          |
|---|------------------|----------|
| Form 3b - Tube Permeameter Test Data          | Number of Sheets | _____    |
| Form 3c - Soil Permeability Class Rating Data | Number of Sheets | <u>4</u> |
| Form 3d - Percolation Test Data -             | Number of Sheets | _____    |
| Form 3e - Pit Bailing Test Data -             | Number of Sheets | _____    |
| Form 3f - Piezometer Flooding Test Data -     | Number of Sheets | _____    |
| Form 3g - Basin Flooding Test Data -          | Number of Sheets | _____    |

5. I hereby certify that the information furnished on Form 3a 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: 4/5/2023

Signature of Professional Engineer



License # 24GE04747700

**Form 3c Soil Permeability Class Rating Data**

- 1.) Test Number 1 Replicate A
- 2.) Sample Depth 42 inches Soil Pit Number 1 Date Collected 3/21/2023
- 3.) Coarse Fragment Content`  
 Total Weight of Sample, W.T. 826 grams  
 Weight of Material Retained on 2mm sieve, W.C.F. 170 grams  
 Wt.% Coarse Fragment ( W.C.F./W.T. x 100): 20.6 %
- 4.) Oven Dry Weight ( 24 hrs., 105degC) of 40 gram Air Dry Sample, Wt 39 grams
- 5.) Hydrometer Calibration, Rc 3.3
- 6.) Hydrometer Calibration Temperature (°F) 68 °F
- 7.) Hydrometer Reading - 40 seconds, R1 15.5 grams  
 Temperature of Suspension 68 °F
- 8.) Corrected Hydrometer, R1' 12.2 grams
- 9.) Hydrometer Reading - 2 hours, R2 6.5 grams  
 Temperature of Suspension 68 °F
- 10.) Corrected Hydrometer, R2' 3.2
- 11.) % Sand = (Wt.-R1' ) / Wt. x 100= 68.7 % Sand
- 12.) % Clay = R2' / Wt. X 100 = 8.2 % Clay
- 13.) Sieve Analysis  
 a. oven Dry Wt. ( 2hrs., 105 deg C) 22 grams  
 Total Sand Fraction ( Soil retained in 0.054 mm Sieve)  
 b. Wt. Of FinePlus Very Fine Sand Fraction 12 grams  
 (Sand Passing 0.25 mm Sieve)  
 c. % Fine Plus very Fine Sand ( b/a) 54.50 % Fine Plus
- 14.) Soil Morphology (Natural Soil Samples Only)  
 Structure of Soil Horizon Tested: SAB  
 Consistence of Soil Horizon Tested: Friable
- 15.) Soil Permeability Class Rating K3
- 16.) 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-1 et seq) and is subject to penalties as prescribed in NJAC 7:14-8.

Signature of Site Evaluator

Jeffrey R. Houser

Date: 4/5/2023

Signature of Professional Engineer

Jeffrey R. Houser

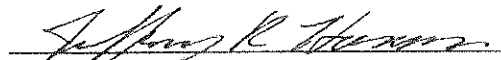
License # 24GE04747700

#

**Form 3c Soil Permeability Class Rating Data**

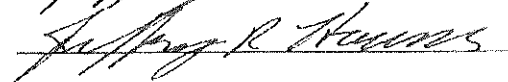
- 1.) Test Number 1 Replicate B
- 2.) Sample Depth 42 inches Soil Pit Number 1 Date Collected 3/21/2023
- 3.) Coarse Fragment Content  
 Total Weight of Sample, W.T. 826 grams  
 Weight of Material Retained on 2mm sieve, W.C.F. 170 grams  
 Wt.% Coarse Fragment ( W.C.F./W.T. x 100): 20.6 %
- 4.) Oven Dry Weight ( 24 hrs., 105degC) of 40 gram Air Dry Sample, Wt 39 grams
- 5.) Hydrometer Calibration, Rc 3.3
- 6.) Hydrometer Calibration Temperature (°F) 68 °F
- 7.) Hydrometer Reading - 40 seconds, R1 16 grams  
 Temperature of Suspension 68 °F
- 8.) Corrected Hydrometer, R1' 12.7 grams
- 9.) Hydrometer Reading - 2 hours, R2 7 grams  
 Temperature of Suspension 68 °F
- 10.) Corrected Hydrometer, R2' 3.7
- 11.) % Sand = (Wt.-R1') / Wt. x 100= 67.4 % Sand
- 12.) % Clay = R2' / Wt. X 100 = 9.5 % Clay
- 13.) Sieve Analysis  
 a. oven Dry Wt. ( 2hrs., 105 deg C) 26 grams  
 Total Sand Fraction ( Soil retained in 0.054 mm Sieve)  
 b. Wt. Of FinePlus Very Fine Sand Fraction 15 grams  
 (Sand Passing 0.25 mm Sieve)  
 c. % Fine Plus very Fine Sand ( b/a) 57.70 % Fine Plus
- 14.) Soil Morphology (Natural Soil Samples Only)  
 Structure of Soil Horizon Tested: SAB  
 Consistence of Soil Horizon Tested: Friable
- 15.) Soil Permeability Class Rating K3
- 16.) 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-1 et seq) and is subject to penalties as prescribed in NJAC 7:14-8.

Signature of Site Evaluator



Date: 4/5/2023

Signature of Professional Engineer



License # 24GE04747700

**Form 3c Soil Permeability Class Rating Data**

- 1.) Test Number 2 Replicate A
- 2.) Sample Depth 60 inches Soil Pit Number 2 Date Collected 3/21/2023
- 3.) Coarse Fragment Content  
 Total Weight of Sample, W.T. 829 grams  
 Weight of Material Retained on 2mm sieve, W.C.F. 172 grams  
 Wt.% Coarse Fragment ( W.C.F./W.T. x 100): 20.7 %
- 4.) Oven Dry Weight ( 24 hrs., 105degC) of 40 gram Air Dry Sample, Wt 40 grams
- 5.) Hydrometer Calibration, Rc 3.3
- 6.) Hydrometer Calibration Temperature (°F) 68 °F
- 7.) Hydrometer Reading - 40 seconds, R1 16 grams  
 Temperature of Suspension 68 °F
- 8.) Corrected Hydrometer, R1' 12.7 grams
- 9.) Hydrometer Reading - 2 hours, R2 7 grams  
 Temperature of Suspension 68 °F
- 10.) Corrected Hydrometer, R2' 3.7
- 11.) % Sand = (Wt.-R1') / Wt. x 100= 68.3 % Sand
- 12.) % Clay = R2' / Wt. X 100 = 9.3 % Clay
- 13.) Sieve Analysis  
 a. oven Dry Wt. ( 2hrs., 105 deg C) 25 grams  
 Total Sand Fraction ( Soil retained in 0.054 mm Sieve)  
 b. Wt. Of FinePlus Very Fine Sand Fraction 20 grams  
 (Sand Passing 0.25 mm Sieve)  
 c. % Fine Plus very Fine Sand ( b/a) 80.00 % Fine Plus
- 14.) Soil Morphology (Natural Soil Samples Only)  
 Structure of Soil Horizon Tested: SAB  
 Consistence of Soil Horizon Tested: Friable
- 15.) Soil Permeability Class Rating K3
- 16.) 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-1 et seq) and is subject to penalties as prescribed in NJAC 7:14-8.

Signature of Site Evaluator

Jeffrey R. Houser

Date: 4/5/2023

Signature of Professional Engineer

Jeffrey R. Houser

License # 24GE04747700



**Form 3c Soil Permeability Class Rating Data**

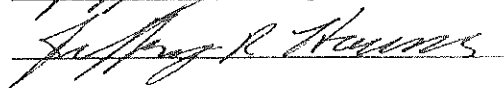
- 1.) Test Number 2 Replicate B
- 2.) Sample Depth 60 inches Soil Pit Number 2 Date Collected 3/21/2023
- 3.) Coarse Fragment Content  
 Total Weight of Sample, W.T. 829 grams  
 Weight of Material Retained on 2mm sieve, W.C.F. 172 grams  
 Wt.% Coarse Fragment ( W.C.F./W.T. x 100): 20.7 %
- 4.) Oven Dry Weight ( 24 hrs., 105degC) of 40 gram Air Dry Sample, Wt 40 grams
- 5.) Hydrometer Calibration, Rc 3.3
- 6.) Hydrometer Calibration Temperature (°F) 68 °F
- 7.) Hydrometer Reading - 40 seconds, R1 15 grams  
 Temperature of Suspension 68 °F
- 8.) Corrected Hydrometer, R1' 11.7 grams
- 9.) Hydrometer Reading - 2 hours, R2 6 grams  
 Temperature of Suspension 68 °F
- 10.) Corrected Hydrometer, R2' 2.7
- 11.) % Sand = (Wt.-R1') / Wt. x 100= 70.8 % Sand
- 12.) % Clay = R2' / Wt. X 100 = 6.8 % Clay
- 13.) Sieve Analysis  
 a. oven Dry Wt. ( 2hrs., 105 deg C) 25 grams  
 Total Sand Fraction ( Soil retained in 0.054 mm Sieve)  
 b. Wt. Of FinePlus Very Fine Sand Fraction 20.3 grams  
 (Sand Passing 0.25 mm Sieve)  
 c. % Fine Plus very Fine Sand ( b/a) 81.20 % Fine Plus
- 14.) Soil Morphology (Natural Soil Samples Only)  
 Structure of Soil Horizon Tested: SAB  
 Consistence of Soil Horizon Tested: Friable
- 15.) Soil Permeability Class Rating K3
- 16.) 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-1 et seq) and is subject to penalties as prescribed in NJAC 7:14-8.

Signature of Site Evaluator



Date: 4/5/2023

Signature of Professional Engineer



License # 24GE04747700

#

**Form 4. - General Design Data**

1. Volume of Sanitary Sewage, gal. 350  
 Res.: No. of Dwelling Units \_\_\_\_\_ Number of Bedrooms \_\_\_\_\_  
 Commercial/Institutional - Indicate type of establishment and show method of calculation. If based on water meter data, indicate source of data, frequency of reading, average daily flow and maximum recorded daily reading.

1,600 SF Building x 0.125 SF/GPD = 20 GPD Minimum Design Flow: 350 GPD

2. Alterations or Repairs  
 a. Reasons for Alterations or Repair (Check appropriate categories):  
 \_\_\_\_\_ Expansion or Change in Use  Upgrade Existing Facilities  
 \_\_\_\_\_ Correct Malfunctioning System \_\_\_\_\_ Other - Specify \_\_\_\_\_

b. Describe Nature of Alterations or Repair  
**Upgrade existing system w/ Hoot Treatment Tank, UV Disinfection, Pump Tank and Disposal bed.**

3. System Components:  
 a. Grease Trap Capacity, gals \_\_\_\_\_ Show Calculations Used: \_\_\_\_\_  
 b. Tank Capacity, gals 1,320  
 First (Single) Compartment 400 gal  
 Second Compartment 715 gal  
 Third Compartment 205 gal

c. Effluent Distribution  
 Method: \_\_\_\_\_ Gravity Flow \_\_\_\_\_ Gravity Dosing  Pres. Dosing  
 Dosing Device:  Pump \_\_\_\_\_ Siphon \_\_\_\_\_

d. Dosing Tank Capacity, gals:  
 Total Capacity 1000  
 Dose Volume (Vd) 58.3 (Time Dosed)  
 Reserve Capacity 515

e. Laterals: Number 4 Total Length 84.0 Pipe Dia. 1.0 in. Spacing 36 inch

f. Connecting Pipe: Diameter 2 in. Length 11 ft

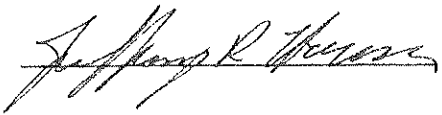
g. Manifold: Diameter 2 in. Length 9 ft

h. Disposal Field: Type of Installation MSR  
 Design Permeability (percolation rate) 6-20 iph  
 Trenches: Width \_\_\_\_\_ Total Length \_\_\_\_\_ Bed Area: 405.0 S.F.

i. Seepage Pits: Design Percolation Rate \_\_\_\_\_  
 Number of Pits \_\_\_\_\_ Total Percolation Area Provided \_\_\_\_\_

4. Attachments (Check if items included):  
 General Plan of System Showing Location of All System Components  
 X-Section of Each System Component Including Septic Tank, Dosing Tank, and Disposal Field  
 Pump Performance Curves  
 \_\_\_\_\_ 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:  License # 24GE04747700 Date: 04/05/23

**Form 5. - Design of Pressure Dosing System**

Sussex / Andover Township

1. Configuration of Distribution Network

Type of Manifold: End X Central           

Distribution Laterals:

Number 4  
Length 21.0 ft  
Diameter 1.00 in.  
Total Lateral Volume(Vl) 3.43 gallons  
Hole Diameter 0.25 in.  
Hole Spacing 36 in.

2. Lateral Discharge Rate

Design Pressure Head at Supply End of Laterals (Hp) 2.50  
Hole Discharge Rate 1.18 gpm  
Number of Holes Per Lateral 7.0  
Lateral Discharge Rate 8.26 gpm

3. Manifold Length (ft)

9 Manifold Diameter (ins) 2  
Total Manifold Volume (Vm) 1.47 gals

4. System Discharge Rate 33.04 gpm

5. Dose Volume:

Daily Volume of Sewage(Q) 350 gpd  
Design Permeability K4 in/hr  
Design Percolation n/a min/in  
Total Volume of Delivery Pipe (Vp) 1.80 gallons  
Internal Volume of Distribution Network (V) 6.69 gallons (Vp+Vm+Vl)  
Dose Volume (Vd) 58.3 gallons  
Total Volume pumped per Dose 65.0 gallons (Vd+Vp+Vm+Vl)

6. a. Pump Selection:

Diameter of Delivery Pipe 2  
Length of Delivery Pipe 11 ft  
Friction Loss in Delivery Pipe (Hf) 0.82 ft  
Elevation of Dosing Tank Low Water 575.83  
Elevation of Lateral Invert 582.10  
Elevation Head (He) 6.27 ft  
Total Operation Head Ht = Hp + Hf + He 9.59 ft  
Pump Model Gould Model WE03L Rated Horsepower 1/3  
Pump Discharge Rate at Total Operating Head 40 GPM

b. Siphon Elevation: **NOT APPLICABLE**

7. 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. 58:10 A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Professional Engineer 

License # 24GE04747700

Date: 04/05/23



Sussex County  
Division of Health

**RECEIPT**

DATE: 4/24/2023

RECEIVED FROM

Fields of Green LLC

AMOUNT: \$250.00

FOR

Septic Permit/Alternative - 474-47  
Route 206 / Block 155 Lot 5.01

Check/MO# 110

Cash

Recv'd/Printed: jpignataro/jpignataro