

3/13/87

RECEIVED
MAR 16 1987

John Rasciops
Toxic Health Officer

At a per our conversation today
I am enclosing a copy of the "1/9/83
report showing a level of 6.1 Mcg/L
trichloroethylene in a sample from our well.

I hope you can schedule
a test on our well ~~now~~ at this high
level of contaminants ~~in~~ the well not
to far distant have me concerned.

We ~~are~~ are concerned with 4 different
but similar compounds:

- Trichloroethylene
- Tri chlor ethene
- Tetra chlor ethylene
- Tetra chlor ethane

I assume these tests are looking for all four
since it is my understanding that the
health effect are a function of the

5/8/31/2

total 11 all faster compared to the public
report seem to concentrate attention

on one & on the other -

1/2 to be from you soon
to schedule a test on our well
1/2 to be from you soon

and we want to know our individuality

about us and Mike Chevrolet

26 Public Road that was not test 2
from 11/11/11 08:54

737-1408 08:54

and we want to know our individuality

and we want to know our individuality

and we want to know our individuality

and we want to know our individuality

and we want to know our individuality

and we want to know our individuality

Permit No. 2013005

Date: 1/14/2013

Hopewell Township Health Department

201 Washington Crossing – Pennington Road

Titusville, New Jersey 08560

Tel. (609) – 737-0120 Fax (609) – 737-6836

PERMIT

Applicant: Mr. & Mrs. Chervenak Iii

Block 89.00, Lot 26.00

For: INDIVIDUAL SUBSURFACE SEWAGE DISPOSAL SYSTEM ALTERATION

Location: 26 Dublin Road

Fee: \$625.00

24 Hour Inspection Notification Required

This permit is NOT transferrable.

Permit Expires 2 years after date of issue

Authorized by:


Hopewell Township Health Department



TOWNSHIP of HOPEWELL

MERCER COUNTY

DEPARTMENT OF HEALTH

201 Washington Crossing Pennington Road Titusville, New Jersey 08560-1410

Phone: 609.737.0120 Fax: 609-737-6836

March 22, 2018

Letter of Review

Estate of Christina L. Chervenak
Grace Allen Hollendonner, Executor
26 Dublin Road
Pennington, NJ 08534

RE: Block 89, Lot 26 (26 Dublin Road)

Dear Mrs. Hollendonner,

This office has received and reviewed the documentation submitted with applications for Letter of Review for the above referenced property. The results are as follows:

Septic System: A septic system inspection report dated 1-22-2018 from New Jersey Septic Management Group indicated the system was operating satisfactorily, with only a concern mentioned regarding moisture in the disposal field. The observations were not significant to rise to unsatisfactory condition, but this office recommends observing the system to assure it is operating properly, hold to maintenance requirements, and minimize water usage when possible. This recommendation is a best practice for all system owners.

Well Water: A well water analysis report dated 3-8-2018 from New Jersey Analytical Laboratories indicated the well was complaint with New Jersey Safe Drinking Water Act primary drinking water requirements at the time of analysis, with the exception of elevated arsenic. An arsenic reduction system has been installed and a post treatment water analysis report dated 3-20-2018 from LECO Laboratories indicated the post treatment sample was compliant with New Jersey Safe Drinking Water Act arsenic requirements.

NOTE: It is a homeowner's responsibility to assure all required maintenance and monitoring are conducted on the water treatment system to assure safe, potable water are consistently delivered to the home. Failure to maintain and monitor the system may result in water that fails to meet New Jersey Safe Drinking Water Act being used by the occupants. Please contact the system installer or a qualified water treatment professional to advice on the proper maintenance and monitoring intervals for the system installed.

Based on the information provided to this office a letter of review hereby released.

You may contact this office at (609) 737-0120 with any questions you may have regarding this matter. Our office hours are Monday through Friday, 8:30 - 4:30.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert B. English', written in a cursive style.

Robert B. English
Health Officer

Advanced Wastewater Treatment System Deed Language

The following language must be added to the deed for the property and the amended deed filed with the Mercer County Clerk.

A copy of the sealed / recorded deed amendment must be provided to the health department.

“This property is provided with an Advanced Wastewater Pretreatment Device. It is the responsibility of the property owner to maintain it and provide routine service. An annual service contract with the system manufacturer’s representative must be kept in effect and submitted to the health department per township ordinance.

This statement may not be removed from the deed without the written authorization of the Hopewell Township Health Department.”

Hopewell Township Ordinance 16-12.2 Alternative Onsite Sewage System Standards Sub section 16-12.2 C. Deed Notification, Advisory of Alternative system. When any residential or commercial property is provided with a holding tank, [or] aerobic wastewater treatment system or any other alternative waste water system approved by NJDEP as part of the on-site wastewater disposal plan, the deed for the property shall be amended and filed with the county clerk. It must indicate the utilization of either component and include whatever requirements may have been imposed by the board of health or NJDEP on the owner. This shall be done to alert all future owners. The amendment must clearly state that this provision cannot be removed without the written authorization of the health department

Township of Lawrence

2207 Lawrence Road
Lawrence, New Jersey 08648

(609) 844-7089

NOTICE OF PAYMENT DUE:

March 2018
Hopewell Township Health Department

March 2018 Child Health Clinic 5 patients @ \$65.00 = \$325.00

Total Amount Due: \$325.00

Invoice# 2018-02
March 20, 2018



Public Health
Protect. Promote. Prevent.

Hopewell Township Health Department

Hopewell Township Child Health Clinic
Monthly Statistics: March 2018

NAME/REFERRAL NUMBER	ADDRESS (Including zip code)	DOB	VISIT DATE	PHYSICAL EXAM (Y/N)	NUMBER of VACCINES ADMINISTERED
Paul Pitera	11 Overbrook Rd Hopewell Twp, NJ 08625	11/26/00	3/12/18	Y	2
Jack Pitera	11 Overbrook Rd Hopewell Twp, NJ 08625	9/17/06	3/12/18	N	1
Sandy Pitera	11 Overbrook Rd Hopewell Twp, NJ 08625	9/17/06	3/12/18	N	1
Nicole Pitera	11 Overbrook Rd Hopewell, NJ 08525	10/16/03	3/12/18	Y	1
Veronika Rembowski	16 Beech St Pennington, NJ 08534	04/10/06	3/12/18	Y	2
Phinn Gillman	112 Van Dyke Rd Hopewell, NJ 08525	05/25/03	3/12/18	Y	3



TOWNSHIP of HOPEWELL
MERCER COUNTY
DEPARTMENT OF HEALTH
Township of Hopewell

201 Washington Crossing Pennington Road Titusville, NJ 08534
New Jersey 08560-1410

Phone: 609.737.0120 Fax: 609-737-6836 www.hopewellnj.org

Health Department

APPLICATION FOR LETTERS OF REVIEW

Block 89 Lot 26 Street Address 26 Dublin Road, Pennington, NJ 08534

Check One: ☒ Sale of Property ☐ Rental of Property ☐ Change in Use Settlement Date ~03/23/2018

Property Owner Information:

Name Estate of Christina L. Chevenak/Grace Allen Hollendonner, Executor Phone: Cell 609-647-0228; home 609-586-1565

Address: 26 Dublin Road Fax: 609-683-0129

City Pennington State NJ Zip 08534 Email: graceamazed@optimum.net

Attorney Laura W. Cassavell, Esq.-Butryn & Cassavell Phone 609-737-9300

Fax 609-737-0992 E-mail lwcassavell@butryn.com

Purchaser/Tenant Information

Name Peter and Loretta McNamara; Peter McNamara and Britney Greenaway Phone: 732-221-0095

Address: 21 Revere Blvd. Fax: _____

City Edison State NJ Zip 08820 Email: peter.mcn@icloud.com; britneygreenaway@yahoo.com

Attorney Alexander M. Watson, Esq.-DuMont & Watson Phone 609-688-8400

Fax 609-688-9353 E-mail AMW@DUMONTWATSONLAW.COM

Applying for: ☒ Septic System Review - \$75.00 ☒ Well Water Quality Review - \$75.00 Total Fee **\$150**

To be completed by Health Department

Septic System Review	Date	Well Water Quality Review	Date
Report Received		Report Received	
Rejected		Rejected	
Temporary Approval Granted		Temporary Approval Granted	
Final Approval Granted	<u>3/22/18</u>	Final Approval Granted	<u>3/22/18</u>
Comments: <u>15TSMC - 1/22/18 - OK</u> <u>NSA - 3/8/18 - AS</u> <u>Set w/ cones on bed for</u> <u>Final Inspected & Installed</u> <u>LECO - 3/20/18 - AS - OK</u> <u>no issue. - AS M&P</u> <u>NOTE</u>			

NJAL Lab ID#N060322

New Jersey Private Well Water Test Reporting Form



The New Jersey Well Test Reporting Form is a standardized form to be used exclusively by laboratories reporting well test results to their client in accordance with the Private Well Testing Act Regulations N.J.A.C. 7:9E.

These laboratory analyses were completed for the purposes of complying with the Private Well Testing Act.

In accordance with the Private Well Testing Act Regulations all analytical results except for coliform (total, fecal, or e coli) shall remain valid for a period of one year from the date of sample collection. All coliform (total, fecal, or e coli) analytical results shall remain valid for a period of six months from the date of sample collection.

- ☐ Analytical results meet primary and secondary contaminant standards for drinking water.
- ☒ One or more of the analytical results do not meet primary⁺ contaminant standards for drinking water.
- ☐ One or more of the analytical results do not meet secondary⁺⁺ contaminant standards for drinking water.

Client Information

Name:	Grace Hollendonner	Date Test Requested:	2/22/2018
Mailing Address:	26 Dublin Road Pennington, NJ 08534		

Property Information

Property Address:	26 Dublin Road	Municipality:	Hopewell Township
Muni Code (4 digit):	1106	County:	Mercer
GPS Location-State Plane coordinates (feet):	X:	Y:	Lot: 26 Block: 89
GPS Coordinate Location (circle one):	Well Head	Front Door	Sample Collection Point / Other
NJ Well Permit or Well Record Number (if known)			

Laboratory Information

Reporting Laboratory Name & ID #:	New Jersey Analytical Laboratories, LLC #11005
Reporting Laboratory Address & Phone #:	380 Scotch Road, Building 2, Suite 1B, Ewing, NJ 08628 Tel: 609-737-3477

Sample Information:

Sample Collector Name:	Joe Todd	11005
Authorized Representative/Certified Laboratory Employee Lab Certification ID #:		
Sample Type: NOTE: Only raw or untreated water samples meet the requirements of the PWTA regulations N.J.A.C. 7:9E.		
a.) Indicate Specific Location of Sample collected:	Kitchen Tap	
b.) Type of Treatment Device(s) Installed (if known):	None	

(+) Primary Drinking Water contaminants are those contaminants that have Maximum Contaminant Levels or Action Levels established to protect health. The Primary Drinking Water contaminants are coliform bacteria, nitrate (total), lead, the volatile organic compounds, arsenic, mercury and gross alpha. The standards for primary contaminants are the maximum permissible levels allowed in drinking water based on ingesting the drinking water over the course of a lifetime.

(++) Secondary Drinking Water contaminants are those contaminants that have Recommended Upper Limits or Optimum Ranges established to protect against those properties that adversely effect the taste, odor, or appearance of drinking water. The Secondary Drinking Water contaminants are iron, manganese and pH.

NJDEP Certified Lab No. 11005
380 Scotch Road, Suite 1B, Bldg 2, Ewing, NJ 08628
Main: 609-737-3477 Fax: 609-737-3052

NJAL Lab ID#N060322

New Jersey Private Well Water Test Reporting Form

New Jersey Analytical Laboratories

The New Jersey Well Test Reporting Form is a standardized form to be used exclusively by laboratories reporting well test results to their client in accordance with the Private Well Testing Act Regulations N.J.A.C. 7:9E.

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SUMMARY OF WELL WATER TEST RESULTS:

Required Test	Result	Units	Applicable Standard Maximum Contaminant Level Action Level or Limit	Standard Exceeded (Y/N)	Laboratory Certification ID #	Analytical Method
Microbial Parameters						
Total Coliform	Abs	Pres/Abs	0 (not present)	N		SM9223B
E. coli*	Abs	Pres/Abs	0 (not present)	N		SM9223B
Metals						
Arsenic #	9.03	ug/l	5 ug/l	Y	11005	EPA 200.8
Mercury	NA	ug/l	2 ug/l	NA	NA	NA
Lead**	0.6	ug/l	5 ug/l**	N	11005	EPA 200.8
Iron	<0.2	mg/l	0.3 mg/l	N	11005	EPA 200.7
Manganese	0.002	mg/l	0.05 mg/l	N	11005	EPA 200.8
General Chemistry						
pH	7.43	su	6.5-8.5 (optimum range)	N	11005	SM4500 H-B
Nitrate (total)	6.400	ug/l	10,000 ug/l	N	11005	EPA 300
Volatile Organics						
Benzene	<0.1	ug/l	1 ug/l	N	11005	EPA 524.2
Carbon Tetrachloride	<0.1	ug/l	2 ug/l	N	11005	EPA 524.2
meta-Dichlorobenzene	<0.1	ug/l	600 ug/l	N	11005	EPA 524.2
ortho-Dichlorobenzene	<0.1	ug/l	600 ug/l	N	11005	EPA 524.2
para-Dichlorobenzene	<0.1	ug/l	75 ug/l	N	11005	EPA 524.2
1,1-Dichloroethane	<0.1	ug/l	50 ug/l	N	11005	EPA 524.2
1,2-Dichloroethane	<0.1	ug/l	2 ug/l	N	11005	EPA 524.2
1,1-Dichloroethylene	<0.1	ug/l	2 ug/l	N	11005	EPA 524.2
cis-1,2-Dichloroethylene	<0.1	ug/l	70 ug/l	N	11005	EPA 524.2
trans-1,2-Dichloroethylene	<0.1	ug/l	100 ug/l	N	11005	EPA 524.2
1,2-Dichloropropane	<0.1	ug/l	5 ug/l	N	11005	EPA 524.2
Ethylbenzene	<0.1	ug/l	700 ug/l	N	11005	EPA 524.2
Methyl tertiary-butyl ether	<0.1	ug/l	70 ug/l	N	11005	EPA 524.2
Methylene Chloride	<0.1	ug/l	3 ug/l	N	11005	EPA 524.2
Monochlorobenzene	<0.1	ug/l	50 ug/l	N	11005	EPA 524.2
Naphthalene	<0.2	ug/l	300 ug/l	N	11005	EPA 524.2
Styrene	<0.1	ug/l	100 ug/l	N	11005	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.1	ug/l	1 ug/l	N	11005	EPA 524.2
Tetrachloroethylene	<0.1	ug/l	1 ug/l	N	11005	EPA 524.2
Toluene	<0.1	ug/l	1,000 ug/l	N	11005	EPA 524.2
1,2,4-Trichlorobenzene	<0.2	ug/l	9 ug/l	N	11005	EPA 524.2
1,1,1-Trichloroethane	<0.1	ug/l	30 ug/l	N	11005	EPA 524.2
1,1,2-Trichloroethane	<0.1	ug/l	3 ug/l	N	11005	EPA 524.2
Trichloroethylene	<0.1	ug/l	1 ug/l	N	11005	EPA 524.2
Vinyl Chloride	<0.1	ug/l	2 ug/l	N	11005	EPA 524.2
Xylenes (total)	<0.1	ug/l	1,000 ug/l	N	11005	EPA 524.2
Radiological Parameters						
Gross Alpha (initial)~	5.766	pCi/L	5 pCi/L	Y	03036	ECIS-R-GA-R8
Gross Alpha (final)~	4.146	pCi/L	15 pCi/L	N	03036	ECIS-R-GA-R8

UNITS: Pres/Abs=presence or absence; ug/l= micrograms per liter (also known as parts per billion); mg/l=milligrams per liter (also known as parts per million); pCi/l=picocuries per liter; su=standard units.

* If total coliform bacteria are detected then additional analyses are required to determine the specific type (fecal or E. coli) present. Fecal coliform or E. coli analysis are not required if total coliform sample results indicate the absence of total coliform bacteria.

** The results of a "flushed" raw (untreated) water sample, which is required by the Private Well Testing Act regulations, should be compared to the Ground Water Quality Standard of 5 ug/l found at N.J.A.C. 7:9-4 et seq. The Lead Action Level of 15 ug/l applies to a one liter first-draw tap sample collected from a cold water kitchen or bathroom tap/sink in which the water has remained motionless in the plumbing system for at least six hours [40 CFR 141.66(b)(2)]. This type of standing-water sample is NOT required by the Private Well Testing Act regulations.

Arsenic analysis is required only in Bergen, Essex, Hudson, Hunterdon, Mercer, Middlesex, Morris, Passaic, Somerset and Union counties. A new MCL of 5 ug/l took effect 1/23/06.

~ Mercury analysis is required only in Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Monmouth, Ocean, and Salem counties.

~ Gross alpha particle activity testing will be required in Cumberland and Gloucester counties starting March 15, 2003; Atlantic, Burlington, Camden and Salem counties starting September 16, 2003; Cape May, Hunterdon, Mercer, Middlesex, Monmouth and Ocean counties starting March 16, 2004. If the initial Gross alpha particle count exceeds 5 pCi/l a second count is required according to the Method. The MCL for Gross alpha particle activity is 15 pCi/l.

NJAL Lab ID#N060322 **New Jersey Private Well Water Test Reporting Form**

The New Jersey Well Test Reporting Form is a standardized form to be used exclusively by laboratories reporting well test results to their client in accordance with the Private Well Testing Act Regulations N.J.A.C. 7:9E.
These laboratory analyses were completed for the purposes of complying with the Private Well Testing Act.

ADDITIONAL SAMPLE INFORMATION:			
Coliform Analyses:			
Date/Time Sample Collected: 02/22/18, 1010	Date/Time Sample Analyzed: 02/22/18, 1550	Sample ID Number: N060322	
Date/Time Sample Collected	Date/Time Sample Analyzed:	Sample ID Number:	
Volatile Organics:			
Date/Time Sample Collected: 02/22/18, 1010	Date/Time Sample Analyzed: 02/24/18, 0449	Sample ID Number: N060322	
Inorganics:			
Date/Time Sample Collected: 02/22/18, 1010	Date/Time Sample Analyzed: 02/22/18, 1859	Sample ID Number: N060322	
Date/Time Sample Collected	Date/Time Sample Analyzed:	Sample ID Number:	
pH Analysis:			
Date/Time Sample Collected: 02/22/18, 1000	Date/Time Sample Analyzed: 02/22/18, 1008	Sample ID Number: N060322	
Gross Alpha Analyses:			
Date/Time Sample Collected: 02/22/18, 1010	Date/Time Sample Analyzed: 02/24/18, 0600	Sample ID Number: N060322	
Date(s) All Analyses Received by Reporting Lab from Subcontracted Lab (if applicable):			

CERTIFICATION OF RESULTS:

I certify in writing that all sampling, analyses, and reporting performed herein, comply with all requirements set forth in N.J.A.C. 7:9E and N.J.A.C. 7:18, and hereby certify that this laboratory is in compliance with all laboratory certification and quality control procedures and requirements as set forth in N.J.A.C. 7:18.

Laboratory Manager or Designee *Susan McBrady* Date *03-08-2018*

ADDITIONAL INFORMATION:

I. Treatment Options

Listed below are the common treatments available to homeowners having well contamination above a Maximum Contaminant Level, Action Level or Recommended Limit. The goal of water treatment is the removal of contaminants to levels below the Maximum Contaminant Level, Action Level or Recommended Limit. For additional information on home treatment devices contact you local/county health department or the NJDEP Private Well Testing Act Hotline at **1-866-4PW-TEST** or visit the Private Well Testing Act webpage at www.state.nj.us/dep/pwtg for links to other appropriate websites, such as National Sanitation Foundation www.nsf.org or USEPA's drinking water website www.epa.gov/safewater. You may also call the USEPA Drinking Water Hotline at (800) 426-4791 to obtain a copy of USEPA's pamphlet entitled "Home Water Treatment Units" (WH-550A). All treatment devices must be properly maintained in accordance with manufacturer recommendations to ensure operating efficiency in removing contaminants. As noted below, not all treatment devices remove every contaminant; there may be more than one device installed if multiple contaminants exist in the drinking water. Water treatment companies may be found by consulting the yellow pages of your local area phone book.



March 13, 2018

Grace Hollendonner
26 Dublin Rd
Pennington, NJ 08534
609-647-0228

gracecamazed@aoptimum.net

RE: Quote for Arsenic Removal System

Dear Ms. Hollendonner:

Stover's is please to quote you on furnishing and installing:

A GreenPro 7 gpm DUAL column arsenic removal unit (STATE OF NJ RECOMMENDATION) with fittings and labor for a cost of \$3,200.00. This unit requires at a minimum annual testing to verify the maximum absorption level has not be reached.

This unit includes 3 years of free arsenic testing through Stover's Wells and Pumps.

A deposit of 50% is due with signed contract (\$1,600.00). Balance is due upon installation (\$1,600.00). Stover's accepts cash, check, Visa, Mastercard or Discover. A 2% service charge is assessed on any overdue balances. If a collection company is contracted to collect overdue balances a fee in the amount of 50% of the balance due including service charges will be assessed.

If the above quote is acceptable please execute the contract below and return to Stover's with any deposit due. Once we have received these items the job may be scheduled by calling 908-782-5374.

Sincerely,

Accepted by:

Tam Stover
President

Name & date

Grace Hollendonner
3/13/2018

Telephone (609) 588-0011
LECO LABORATORY
3123 Klockner Road
Trenton, New Jersey 08690
Laboratory I.D. # 11106

Grace Hollendonner
26 Dublin Rd.
Pennington, NJ 08534

Date Collected: 3-15-18
Time Collected: 12:15pm

Matrix: Water
Source: Well
Sampled by: Lab
Collection Point: Kitchen Sink
Analysis by: Lab ID # 03886
LECO Sample #: L074181

Parameter/Method	MCL	Result
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Arsenic (SM 3113B)	0.005 mg/L	<0.002 mg/L
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> = greater than	< = less than	MCL = Maximum Contaminant Level
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Remarks:

Arsenic meets the requirements established by the NJDEP.

Report Date: March 20, 2018

Donald B. Lilley
By: _____
Donald B. Lilley/Director

All good



343 Route 601, Belle Mead, NJ 08502
phone: 908-874-4669 fax: 908-874-4697

www.nj-septic.com

SEPTIC SYSTEM INSPECTION REPORT

CLIENT INFO		INSPECTION LOCATION	
Client Name: Kristi Rosenberg	Inspector Name: Tom Cahill	With Field Technician Craig Moorhead	
Different from owner? ☒ yes ☐ no	Date: 1-22-18		
Client Address: 806 Bollen Court PENNINGTON NJ 08534	Inspection Address : 26 Dublin Road Pennington NJ 08534		
Contact Methods : Cell # : (734) 834-7697 Home tel. : (609) 213-2892	Township : Hopewell		
Work / Fax :	Was GPS used? ☐ yes ☒ no	Block : 89	Lot : 26
E-mail : krosy1216@gmail.com			

Preliminary Information:		Yes	No
Weather: Cloudy	51 Degrees	☒	☐
Last precipitation: 3 day(s) before inspection	Rain	☐	☒
Age of system 5 years			
Type of dwelling: ☒ Residential	Number of Bedrooms: 4		
Non residential Describe: How many systems are being inspected? 1			
These systems are:			
List any commercial activities or high impact hobbies:			
Describe prior problems and/or repair history including soil fracturing or use of chemical additives. Include dates and explain why the remedial measures have been applied to the system (if available):			
Original system failed and was replaced with this			
Was there a file review in the Health Dept. prior to the Inspection? Yes			
If not, why?			

Is there a site plan or septic map available?	☒	☐
Is the dwelling currently being occupied?	☐	☒
If so, how many occupants?		
If no, date last occupied? 12-27-17		
If there is a washing machine, is it connected to a separate gray water disposal system?	☐	☒
Is the dwelling free of additional gray water systems?	☒	☐
Is the dwelling free of garbage disposal systems?	☒	☐
Is the dwelling free of sump pump discharges to the system?	☒	☐
If there is a water softener system, does its backwash discharge into the system?	☐	☒
Is the dwelling free of any historical sewage backups into the household plumbing.	☒	☐
Does all sewage enter the septic system and no type of sewage bypass exists?	☒	☐
Septic Tank Pumping:		
Is the septic tank pumped regularly?	Unknown	
Frequency:	Unknown	
Date of last pumping:	Unknown	

General Comments:

All components of a home have an expected, useful life span. As systems get older, they will generally require routine maintenance and periodic repairs and will eventually require full replacement. It is most often recommended to pump out a 1,000 gallon septic tank every 2 – 3 years, depending on the size of the family (larger family = increased water usage). If the sewage solids are not pumped out as they accumulate, there is an increased chance that they may migrate out of the tank, leading to partial blockage in drainage components and pre-mature failure.

Please Note:

Written commentary concerning septic system components is presented in the summary page(s) attached. Diagram is included for explanatory purposes.

Treatment Tank(s):		Type of tank(s) being inspected?	How many: 1	Yes	No
☐ Septic tank	☐ Cesspool			☒	☐
☐ Gray water	☒ Multi-compartment - 2	☒ 3		☒	☐
What material is the tank made of?				☐	☒
☒ Concrete	☐ Block			☒	☐
☐ Steel	☐ Poly/Fiberglass			☒	☐
Approximate Treatment Tank Volume: gallons: 1000				☒	☐
Evaluate the conditions of tank below:				☒	☐
Satisfactory		Unsatisfactory	N/A	☒	☐
Top(s) and Lids	☒	☐	☐	☒	☐
Inlet baffle(s)	☒	☐	☐	☒	☐
Outlet baffle(s)	☒	☐	☐	☒	☐
Cracks or Leaks	☒	☐	☐	☒	☐
Flow from the home	☒	☐	☐	☒	☐
Distribution system:				Depth: ☒	Plastic
Type of delivery pipe being inspected?				At grade ☒	Depth: ☐
☒ PVC	Is PVC schedule 40?	☒ yes	☐ no	Is delivery pipe in satisfactory condition?	☒ yes ☐ no ☐ N/A
☐ Orangeburg	☐ terra-cotta			If present, was the d-box(es) located?	☒ yes ☐ no ☐ N/A
☐ cast iron	☐ other			If present, was the d-box(es) uncovered?	☒ yes ☐ no ☐ N/A
Type of waste-water delivery?	☒ gravity flow	☐ pressure dosed		If not uncovered, explain below	
D-box(es) present	☒ gravity dosed	☐ No d-box is present		Was the d-box(es) covered by a walkway, deck or driveway (in part or whole)?	☐ yes ☒ no ☐ N/A
How many: 2	☐ Unable to determine			Was the d-box(es) in satisfactory condition?	☒ yes ☐ no ☐ N/A
Dosing or Pump Tank:				Was liquid at normal operating level?	☒ yes ☐ no ☐ N/A
Does the system have a pump tank?				Yes	No
Is the pump operating?				☐	☒
Does the alarm for the pump work?				☐	☒
Is the pump elevated above the tank floor?				☐	☒
Is the lid in satisfactory condition?				☐	☒
Is the tank in satisfactory condition?				☐	☒
Absorption Area:				Yes	No
Was the absorption system located?				☒ yes	☐ no
Check the type of the absorption components that apply:				If no, see below.	
☒ disposal bed	☒ gravity flow	☐ pressure-dosed		☐ gravity-dosed	☐ raised mound
☐ disposal trenches	☒ # of laterals: 10	☐ seepage pits(s)		☐ chambers:	
Are inspection ports present?				☒ yes	☐ no
Were separate, confirmation probes done throughout the absorption area?				☒ yes	☐ no
Is the area of the absorption system free of sewage odors?				☒ yes	☐ no
Does sewage flow from the treatment tank to the absorption system without flowing back?				☒ yes	☐ no
Is the area above / near any of the system components free from signs of effluent or sewage?				☒ yes	☐ no
Are the areas at or near the inlet invert of any absorption area component free of visible signs of sewage or effluent?				☒ yes	☐ no
Are areas above or near system components free of lush vegetation?				☒ yes	☐ no
Is the area directly over any part of the absorption system free of any evidence of large objects (cars, pools, etc.)?				☒ yes	☐ no

	Satisfactory	Satisfactory with Concerns	Unsatisfactory	Requires Additional Investigation	N/A
Condition of the treatment tank(s)	☒	☐	☐	☐	☐
Alternative Technology	☒	☐	☐	☐	☐
Condition of the distribution system	☒	☐	☐	☐	☐
Condition of the dosing system	☐	☐	☐	☐	☐
Condition of the absorption area	☒	☐	☐	☐	☐

Health Department Reporting

Note if any of the following conditions were observed during the inspection:

- ☐ 1. Ponding or breakout of sewage or effluent onto the surface of the ground
- ☐ 2. Seepage of sewage or effluent into portions of buildings below ground
- ☐ 3. Backup of sewage into the building served which is not caused by a physical blockage of the internal plumbing
- ☐ 4. Leakage from any system component that is supposed to be water-tight, such as the distribution box or septic tank

Pursuant to N.J.A.C. 7:9A-3.4 notification of any observation that is consistent with a condition noted above should be reported to the local administrative authority within 24 hours of the observation.

If encountered, describe all observed noncompliant conditions encountered during this inspection:
None of the conditions described above were found during this inspection.

Disclaimer:

New Jersey Septic Management Group (herein after referred to as NJSMG) performs inspections in accordance with the "Protocol for Inspections of Onsite Wastewater Treatment and Disposal Systems" provided by the New Jersey Department of Environmental Protection, Division of Water Quality, Bureau of Non-Point Pollution Control dated April 2, 2012.

A NJDEP Inspection is:

- an objective evaluation of the onsite wastewater treatment system's characteristics based on the experience and expertise of a qualified inspector.
- a NJDEP Inspection is not:
 - an evaluation of each component examined leading to a conclusion about the system's condition.
 - a warranty or guarantee that the system will properly function for any period of time in the future.
 - a result that is certified or endorsed by the State of New Jersey or its related regulatory or governing agencies.
 - an assurance that the soil is adequately treating or will adequately treat effluent.

Based on today's observations and the information provided by the owner(s) or their agent, NJSMG submits this sub-surface sewage disposal system inspection report. The inspection is based on the current condition of the onsite sewage disposal system. NJSMG makes no representation that the system was designed, installed, or meets NJAC 7:9A-1.1 et seq. NJSMG has not been retained to warrant, guarantee, or certify the proper functioning of the system for any period of time. Because of numerous factors (usage, soil type, installation, maintenance, etc.) which affect the proper operation of a sub-surface disposal system, as well as the inability of NJSMG to supervise or monitor the use and maintenance of the system, this report shall not be construed as a warranty by NJSMG that the system will function properly for any prospective buyer. NJSMG disclaims any warranty, either expressed or implied, arising from this inspection of the septic system.

NJSMG Signature: Thomas M. Cahill *Thomas M. Cahill* Date: 1-22-18
 Printed Name: Thomas M. Cahill, Registered Environmental Health Specialist



2179 Route 206 North, Belle Mead, NJ 08502
phone: 866-44-SEPTIC (866-447-3784) or 908-874-4669 fax: 908-874-4697

www.nj-septic.com

Kristi Rosenburg
806 Bollen Court
Pennington, NJ 08534

Date: January 25, 2018

Septic Inspection Summary Letter: 26 Dublin Road, Pennington, NJ;
Otherwise known as: Hopewell Township, Block: 89, Lot: 26.

As requested, representatives from New Jersey Septic Management Group (NJSMG) visited the property listed above, on January 22, 2018, to conduct an inspection of the septic system. The existing home is said to have 4 bedrooms and the septic system was designed accordingly. The home is almost 63 years old. The system is described as an unconventional, gravity flow system, which utilizes alternative technology. This Advanced Treatment System begins with an Aerobic Treatment Tank (Brand name: HOOT), and the highly treated wastewater flows out of the tank, by gravity, into a series of 2 D-boxes, which distribute the liquid throughout a disposal bed. A summary of the inspection results is presented below. For additional details, please see the NJDEP Septic Inspection Field Notes (included).

Aerator (Compressor) : Satisfactory

There were no signs of problems with the compressor, itself, or its housing (it is important to keep the vegetation in and around this concrete box closely trimmed, so as not to impeded air flow. Also, any nesting materials should be removed whenever found.) It is recommended to review past Service Records (in the Health Dept. records or as made available by the homeowner) to see if any issues have been presented and dealt with.

Aerobic Treatment Tank: Satisfactory

The main access lids are made of heavy duty plastic (poly) and they are raised up, just above the ground surface. They were properly secured shut, as required. When the lids were removed, the interior liquid in both compartments was shown to be at normal operating levels. As is appropriate for these systems, only the first compartment was pumped out for inspection. Baffles appeared to be intact and there were no signs of cracks or leaks. The Aerator was properly injecting oxygen into the wastewater, as designed during normal operation.

Distribution System: Satisfactory, with Concerns

The delivery pipe from the outlet of the HOOT Tank was solid and showed no blockage or damage. There were no accumulations of sewage sludge in the line. Wastewater flows by gravity into the first of two D-boxes, connected in series, and then flows through the second D-box. Both D-boxes are made of heavy duty plastic (poly) and they were intact. Inside each D-box, the septic effluent (liquid) was observed to be equally flowing out of each lateral opening.

SPECIAL NOTE: The components within this disposal bed, which were uncovered and inspected on-site, reflected the lay-out shown in the engineer's "As-built". However, it is clear that the original approved design called for all lateral pipes to be connected to one central D-box. The installation of the 2 D-boxes, in series, does not allow for equal distribution of wastewater throughout the disposal bed. It will,

instead, ensure differential saturation (only 1/5 of the septic effluent that enters the first D-box is delivered into the second half of the disposal bed).

Absorption System: Satisfactory, with Concerns

All Observation ports were checked for standing liquid. The corner ports were all dry, ranging from 24" to 39". The deep port was 129" deep and showed 46" of water was measured at the bottom. Probing was done throughout the disposal bed to determine the depth of drainage gravel and whether or not there was any standing water. The top of drainage gravel ranged from 14" to 22", below grade, and the bottom of gravel ranged from 32" to 42" deep, deep, showing no standing water, anywhere. However, across much of the disposal bed, the bottom of the gravel was shown to be "muddy", but not saturated. It is important to keep in mind that this home has been vacant in recent weeks and the drainage capability may be different once this home is fully occupied.

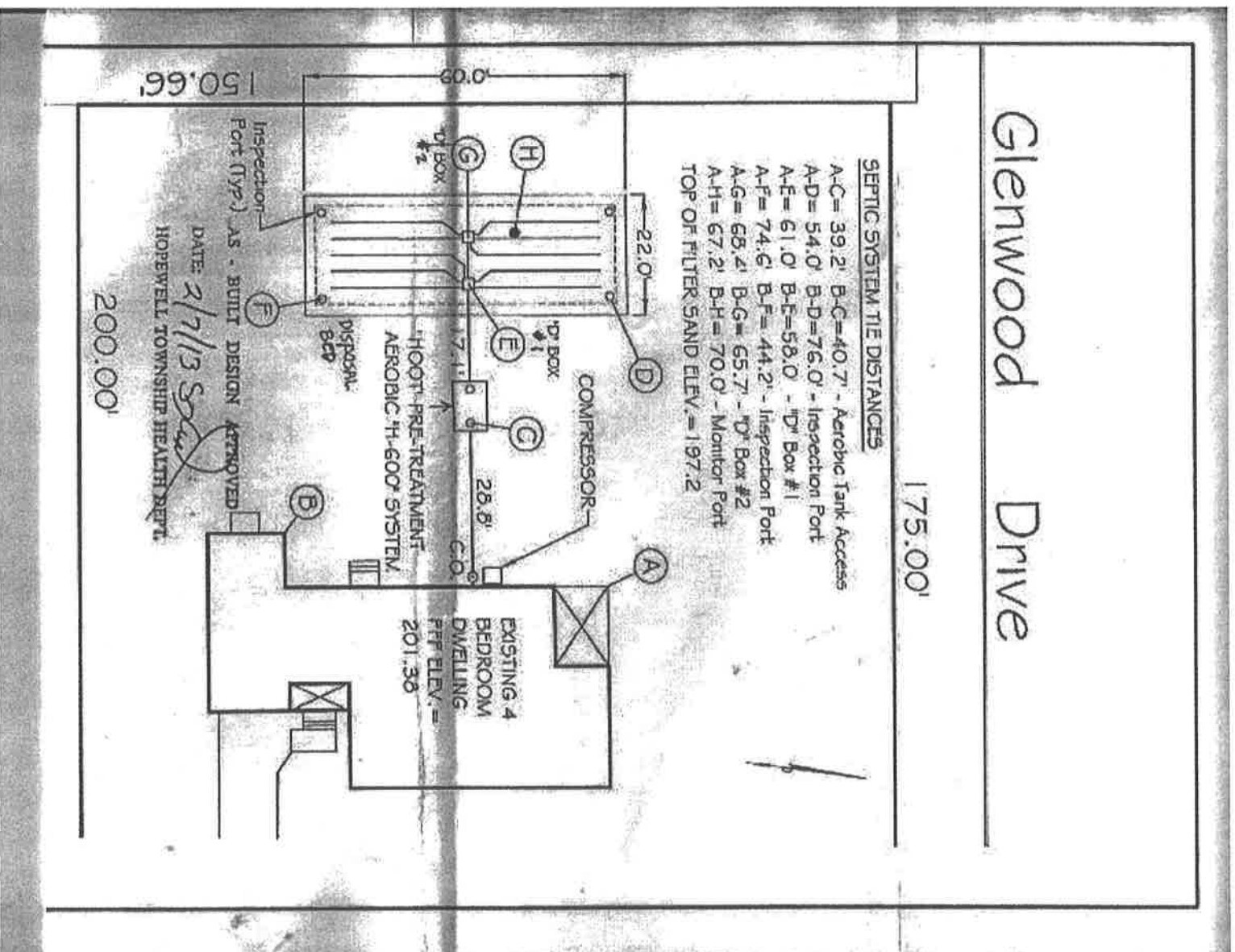
Under such circumstances, the NJDEP recommends conducting a 2-day hydraulic loading test, as a means of further evaluation.

NJSMG submits this inspection report and summary letter, concerning the Onsite Sewage Disposal System (septic system), based on field observations and information provided by the owner(s) or their agents. The inspection was based on the current conditions of the individual components and the over-all system operation, at the time of inspection, with the limitations then present (vacancy, lack of water, etc.). NJSMG makes no representation that the system was designed or installed according to, or meets NJAC 7:9A-1.1 et seq. NJSMG has not been retained to warrant, guarantee, or certify the proper functioning of the system for any period of time. NJSMG disclaims any warranty, expressed or implied, arising from this inspection, the report and summary. Please contact our office, with any questions.

Thomas Cahill, REHS
Inspections Supervisor

Please refer to the septic system diagram on the next page.

SEPTIC SYSTEM DIAGRAM, for information purposes only.



ere@hopewelltwp.org

From: grace hollendonner [graceamazed@optimum.net]
Sent: Tuesday, March 13, 2018 3:02 PM
To: healthofficer@hopewelltwp.org; ere@hopewelltwp.org
Subject: Info for 26 Dublin Road Water Test and Remediation
Attachments: Hollendonner-D_Arsenic-26_Dublin_Rd-20180313.pdf; N060322 F-Well_Results-26_Dublin-20180222.pdf

Hi, Liz and Bob. Thanks for helping me today. I have attached the well test results from 02/22/2018 and the signed quote I have provided to Stover who will install the arsenic removal unit tomorrow, 03/14/2018. I will have the buyer write a letter to acknowledge their acceptance of this in the event they want to proceed with closing before clean water tests can be obtained. Tomorrow I will drop off the application for letters of Review with the fee. -Grace

----- Begin forwarded message -----
Subject: 26 Dublin Road Sale Issues
Date: 03/13/18 12:33:18 PM
From: "grace hollendonner"
To: "Robert English"

I have several questions related to the pending sale of property at 26 Dublin Road (Block 89, lot 26) scheduled for late March 2018. Unfortunately I have had some last minute problems which are delaying my submission of the letter of Review applications to Hopewell Township and the real estate closing.

1. Radon remediation was just completed by Radiation Data, and you will be receiving paperwork from them this week. I have been advised that the real estate closing cannot be completed as long as there is an "open permit". Please advise on what I can do to expedite the radon remediation permitting process and inspection, and what must be completed before closing can occur.

2. Well water testing by NJAL showed elevated arsenic (9.03 ug/l vs the 5.0 NJ MCL) and I am arranging to have a remediation system installed, hopefully this week. Can I submit the letter of Review Application for the well water with the existing test results and proof of the remediation system installation, or do I need to retest the water first and submit a lab report confirming arsenic below the MCL?



March 13, 2018

Grace Hollendonner
26 Dublin Rd
Pennington, NJ 08534
609-647-0228
graceamazed@optimum.net

RE: Quote for Arsenic Removal System

Dear Ms. Hollendonner:

Stover's is please to quote you on furnishing and installing:

A GreenPro 7 gpm DUAL column arsenic removal unit (STATE OF NJ RECOMMENDATION) with fittings and labor for a cost of \$3,200.00. This unit requires at a minimum annual testing to verify the maximum absorption level has not be reached.

This unit includes 3 years of free arsenic testing through Stover's Wells and Pumps.

A deposit of 50% is due with signed contract (\$1,600.00). Balance is due upon installation (\$1,600.00). Stover's accepts cash, check, Visa, Mastercard or Discover. A 2% service charge is assessed on any overdue balances. If a collection company is contracted to collect overdue balances a fee in the amount of 50% of the balance due including service charges will be assessed.

If the above quote is acceptable please execute the contract below and return to Stover's with any deposit due. Once we have received these items the job may be scheduled by calling 908-782-5374.

Sincerely,

Tam Stover
President

Accepted by:

Name & date

Grace Hollendonner
3/13/2018

NJAL Lab ID#N060322 New Jersey Private Well Water Test Reporting Form
New Jersey Analytical Laboratories

The New Jersey Well Test Reporting Form is a standardized form to be used exclusively by laboratories reporting well test results to their client in accordance with the Private Well Testing Act Regulations N.J.A.C. 7:9E.

These laboratory analyses were completed for the purposes of complying with the Private Well Testing Act.

SUMMARY OF WELL WATER TEST RESULTS:

Required Test	Result	Units	Applicable Standard Maximum Contaminant Level Action Level or Limit	Standard Exceeded (Y/N)	Laboratory Certification ID #	Analytical Method
Microbial Parameters						
Total Coliform	Abs	Pres/Abs	0 (not present)	N		SM9223B
E. coli*	Abs	Pres/Abs	0 (not present)	N		SM9223B
Metals						
Arsenic *	9.03	ug/l	5 ug/l	Y		EPA 200.8
Mercury *	NA	ug/l	2 ug/l	NA		NA
Lead**	0.6	ug/l	5 ug/l **	N		EPA 200.8
Iron	<0.2	mg/l	0.3 mg/l	N		EPA 200.7
Manganese	0.002	mg/l	0.05 mg/l	N		EPA 200.8
General Chemistry						
pH	7.43	su	6.5-8.5 (optimum range)	N		SM4500 H-B
Nitrate (total)	6.400	ug/l	10,000 ug/l	N		EPA 300
Volatile Organics						
Benzene	<0.1	ug/l	1 ug/l	N		EPA 524.2
Carbon Tetrachloride	<0.1	ug/l	2 ug/l	N		EPA 524.2
m,peta-Dichlorobenzene	<0.1	ug/l	600 ug/l	N		EPA 524.2
ortho-Dichlorobenzene	<0.1	ug/l	600 ug/l	N		EPA 524.2
para-Dichlorobenzene	<0.1	ug/l	75 ug/l	N		EPA 524.2
1,1-Dichloroethane	<0.1	ug/l	50 ug/l	N		EPA 524.2
1,2-Dichloroethane	<0.1	ug/l	2 ug/l	N		EPA 524.2
1,1-Dichloroethylene	<0.1	ug/l	2 ug/l	N		EPA 524.2
cis-1,2-Dichloroethylene	<0.1	ug/l	70 ug/l	N		EPA 524.2
trans-1,2-Dichloroethylene	<0.1	ug/l	100 ug/l	N		EPA 524.2
1,2-Dichloropropane	<0.1	ug/l	5 ug/l	N		EPA 524.2
Ethylbenzene	<0.1	ug/l	700 ug/l	N		EPA 524.2
Methyl tertiary-butyl ether	<0.1	ug/l	70 ug/l	N		EPA 524.2
Methylene Chloride	<0.1	ug/l	3 ug/l	N		EPA 524.2
Monochlorobenzene	<0.1	ug/l	50 ug/l	N		EPA 524.2
Naphthalene	<0.2	ug/l	300 ug/l	N		EPA 524.2
Styrene	<0.1	ug/l	100 ug/l	N		EPA 524.2
1,1,2,2-Tetrachloroethane	<0.1	ug/l	1 ug/l	N		EPA 524.2
Tetrachloroethylene	<0.1	ug/l	1 ug/l	N		EPA 524.2
Toluene	<0.1	ug/l	1,000 ug/l	N		EPA 524.2
1,2,4-Trichlorobenzene	<0.2	ug/l	9 ug/l	N		EPA 524.2
1,1,1-Trichloroethane	<0.1	ug/l	30 ug/l	N		EPA 524.2
1,1,2-Trichloroethane	<0.1	ug/l	3 ug/l	N		EPA 524.2
Trichloroethylene	<0.1	ug/l	1 ug/l	N		EPA 524.2
Vinyl Chloride	<0.1	ug/l	2 ug/l	N		EPA 524.2
Xylenes (total)	<0.1	ug/l	1,000 ug/l	N		EPA 524.2
Radiological Parameters						
Gross Alpha (initial)~	5.766	pCi/L	5 pCi/L	Y		ECL-S-R-GA-R8
Gross Alpha (final)~	4.146	pCi/L	15 pCi/L	N		ECL-S-R-GA-R8

UNITS: Pres/Abs=presence or absence; ug/l= micrograms per liter (also known as parts per billion); mg/l=milligrams per liter (also known as parts per million); pCi/l=pico-curries

per liter, unstandard units.

* If total coliform bacteria are detected then additional analyses are required to determine the specific type (fecal or E. coli) present. Fecal coliform or E. coli analysis are not required if total coliform sample results indicate the absence of total coliform bacteria.

** The results of a "flushed" raw (untreated) water sample, which is required by the Private Well Testing Act regulations, should be compared to the Ground Water Quality Standard of 5 ug/l found at N.J.A.C. 7: 9-6 at seq. The Lead Action Level of 15 ug/l applies to a one liter first-draw tap sample collected from a cold water kitchen or bathroom tap/sink in which the water has remained motionless in the plumbing system for at least six hours [40 CFR 141.86(b)(2)]. This type of standing-water sample is NOT required by the Private Well Testing Act regulations.

Arsenic analysis is required in Bergen, Essex, Hudson, Hunterdon, Mercer, Middlesex, Morris, Passaic, Somerset and Union counties. A new MCL of 5 ug/l took effect 1/23/06.

~ Mercury analysis is required only in Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Monmouth, Ocean, and Salem counties.

~ Gross alpha particle activity testing will be required in Cumberland and Gloucester counties starting March 15, 2003; Atlantic, Burlington, Camden and Salem counties starting September 16, 2003; Cape May, Hunterdon, Mercer, Middlesex, Monmouth and Ocean counties starting March 16, 2004. If the initial Gross alpha particle count exceeds 5 pCi/l a second count is required according to the Method. The MCL for Gross alpha particle activity is 15 pCi/l.

NJAL Lab ID#N060322

New Jersey Private Well Water Test Reporting Form

The New Jersey Well Test Reporting Form is a standardized form to be used exclusively by laboratories reporting well test results to their client in accordance with the Private Well Testing Act Regulations N.J.A.C. 7:9E.
These laboratory analyses were completed for the purposes of complying with the Private Well Testing Act.

ADDITIONAL SAMPLE INFORMATION:

Coliform Analyses:			
Date/Time Sample Collected: 02/22/18, 1010	Date/Time Sample Analyzed: 02/22/18, 1550	Sample ID Number: N060322	
Date/Time Sample Collected	Date/Time Sample Analyzed:	Sample ID Number:	
Volatile Organics:			
Date/Time Sample Collected: 02/22/18, 1010	Date/Time Sample Analyzed: 02/24/18, 0449	Sample ID Number: N060322	
Inorganics:			
Date/Time Sample Collected: 02/22/18, 1010	Date/Time Sample Analyzed: 02/22/18, 1859	Sample ID Number: N060322	
Date/Time Sample Collected	Date/Time Sample Analyzed:	Sample ID Number:	
pH Analysis:			
Date/Time Sample Collected: 02/22/18, 1000	Date/Time Sample Analyzed: 02/22/18, 1008	Sample ID Number: N060322	
Gross Alpha Analyses:			
Date/Time Sample Collected: 02/22/18, 1010	Date/Time Sample Analyzed: 02/24/18, 0600	Sample ID Number: N060322	
Date(s) All Analyses Received by Reporting Lab from Subcontracted Lab (if applicable):			

CERTIFICATION OF RESULTS:

I certify in writing that all sampling, analyses, and reporting performed herein, comply with all requirements set forth in N.J.A.C. 7:9E and N.J.A.C. 7:18, and hereby certify that this laboratory is in compliance with all laboratory certification and quality control procedures and requirements as set forth in N.J.A.C. 7:18.

Laboratory Manager or Designee *Susan McShady* Date *03-08-2018*

ADDITIONAL INFORMATION:

I. Treatment Options

Listed below are the common treatments available to homeowners having well contamination above a Maximum Contaminant Level, Action Level or Recommended Limit. The goal of water treatment is the removal of contaminants to levels below the Maximum Contaminant Level, Action Level or Recommended Limit. For additional information on home treatment devices contact you local/county health department or the NJDEP Private Well Testing Act Hotline at **1-866-4PW-TEST** or visit the Private Well Testing Act webpage at www.state.nj.us/dep/pwta for links to other appropriate websites, such as National Sanitation Foundation www.nsf.org or USEPA's drinking water website www.epa.gov/safewater. You may also call the USEPA Drinking Water Hotline at (800) 426-4791 to obtain a copy of USEPA's pamphlet entitled "Home Water Treatment Units" (WH-550A). All treatment devices must be properly maintained in accordance with manufacturer recommendations to ensure operating efficiency in removing contaminants. As noted below, not all treatment devices remove every contaminant, there may be more than one device installed if multiple contaminants exist in the drinking water. Water treatment companies may be found by consulting the yellow pages of your local area phone book.

New Jersey Private Well Water Test Reporting Form

The New Jersey Private Well Test Reporting Form is a standardized form to be used exclusively by laboratories reporting well test results to their client in accordance with the Private Well Testing Act Regulations N.J.A.C. 7:9E.

These laboratory analyses were completed for the purposes of complying with the Private Well Testing Act

SUMMARY OF TREATMENT OPTIONS FOR HOMEOWNERS

Treatment Type	Contaminants Treated
Activated Carbon Filtration	Some Organic Chemicals
	Taste
	Trihalomethanes
	Some Pesticides
	Odor
Air Stripping	Volatile Organic Compounds (higher concentrations)
	Iron (with filtration)
	Hydrogen Sulfide
	Radon Gas
	Bacteria (Coliform)
Chlorinators	Microbiological Contamination
Distillation	All Inorganic Chemicals (i.e., Nitrate, Sodium Chloride)
	Some Organic Chemicals
	Hard Water (Water Softening)
Ion Exchange	Manganese
	Some Heavy Metals
	Calcium
	Iron
	Certain Organic Chemicals
Reverse Osmosis	Nitrates
	Dissolved Solids/Metals
	Turbidity
Mechanical Filtration	Dirt
	Sediment
	Particulates (Loose Scale)
	Temporary Solution to Aesthetic Problems & Emergency Situations
	Bottled Water
KDF-55 with pH adjustment	Mercury
	Bacteria (Coliform)
	Microbiological Contamination
Ultraviolet Radiation	

II. Health Effects

Drinking water standards are established to protect consumers of drinking water from both adverse health effects (primary drinking water standards) and from qualities that make the water unpalatable (secondary drinking water standards). Both NJDEP and USEPA set drinking water standards; those in effect in New Jersey can be found at www.state.nj.us/dep/watersupply. Both NJDEP and USEPA periodically review this list and add or subtract contaminants based on new scientific information. Standard setting is summarized in a brochure entitled "Standards for Safe Drinking Water In New Jersey" available by calling 1-866-4PW-TEST.

There are several resources available to assist in interpreting your test results. An informative booklet explaining drinking water results written by Rutgers Cooperative Extension Service entitled "Interpreting Drinking Water Quality Analysis - What do the Numbers Mean? - 5th edition" is available at www.rce.rutgers.edu/pubs/pdfs/e214.pdf. Health effects information developed by the USEPA is summarized at www.epa.gov/safewater/mcl.html. The New Jersey Department of Health and Senior Services, in conjunction with NJDEP's Bureau of Safe Drinking Water and Division of Science Research and Technology, has developed a series of brochures for drinking water and health that can be found at www.state.nj.us/health/eoh/hhazweb/edmat.html.

New Jersey Private Well Water Test Reporting Form

The Private Well Test Reporting Form is a standardized form to be used exclusively by laboratories reporting well test results to their client in accordance with the Private Well Testing Act Regulations N.J.A.C. 7:9E.

These laboratory analyses were completed for the purposes of complying with the Private Well Testing Act.

III. Recommendations for Additional Testing

The Private Well Testing Act regulations require well water samples to be collected from untreated or "raw" water. Raw water quality represents the well water quality. Additional water testing may be conducted to determine the effectiveness of a water treatment system or to determine if the distribution system (pipes) may be contributing additional contamination. In those cases sampling of treated or finished water at the tap is recommended. This additional testing of treated water is not required under the Private Well Testing Act regulations. For example, testing of finished water to determine the effectiveness of a treatment system to remove contaminants for a known, pre-existing water quality problem would be desirable. Below are recommendations for additional testing.

Scenario One: There is an existing treatment system or device installed at the house or building due to a known pre-existing water quality problem and raw water testing indicates that one or more parameters are above a Maximum Contaminant Level, Action Level, or Recommended Limit. NJDEP recommends that a second water sample be collected for the parameter(s) of concern at a location after the treatment system or device at a primary tap to insure that the system or device is working properly in removing or reducing the contaminants to below the applicable Maximum Contaminant Level, Action Level, or Recommended Limit.

Scenario Two: After testing, total and fecal coliform bacteria are found to be above the Maximum Contaminant Level. The well is subsequently treated via chlorine disinfection. Re-testing is recommended after a chlorine residual can no longer be detected to insure the effectiveness of the treatment.

Scenario Three: FOR LEAD ANALYSIS ONLY (Note: The Private Well Testing Act regulations require that a "flushed" sample be collected for lead analysis meaning the well water was run to remove any water that may have been in contact with the plumbing for an extended period of time). *In scenario three*, the flushed, untreated sample, collected at the tap, indicates there is lead contamination greater than 5 ug/l. The state's ground water quality standard of 5 ug/l is the more appropriate standard to apply to a "flushed" water sample rather than the drinking water Action Level of 15 ug/l, which is based on sampling drinking water that has been allowed to remain in the plumbing for at least six hours.

If the interested party wants to better evaluate the level of potential lead contamination from the plumbing system, a "first draw" (non-flushed) sample should also be analyzed for lead. This "first draw" water sample may likely contain the highest level of lead to which one is likely to be exposed. The results of this sample should be compared to the lead Action Level of 15 ug/l. Results above 15 ug/l mean that there is a source of lead in the home plumbing system. The interested party may install treatment to make the water less corrosive and less likely to dissolve lead from the plumbing; may attempt to locate the source of the lead and remove it from the home plumbing system or may choose to run the water through the plumbing (or selected faucets) each morning to insure that the standing water is flushed through the pipes and is not consumed.

IV. Remediation/Treatment Funding Sources

A.) The **Spill Fund Program** administered by the Bureau of Contract and Fund Management within the New Jersey Department of Environmental Protection offers help to innocent parties suffering from direct or indirect damages resulting from the discharge of a *hazardous substance*. A property owner may file a claim for reimbursement for most of the expenses incurred to install a treatment device for a potable well or to connect to a public water supply because of a hazardous substance in the well water. A claimant has 1 year from the date he/she learns that the well is contaminated above standards to file a claim. There are specific requirements and guidelines for filing claims with the Spill Fund. For more information, please contact the NJDEP-Bureau of Contract and Fund Management at: 609-777-0101 or visit their website at: www.state.nj.us/dep/sfp or you may write to the BCFM: NJDEP-BCFM/Spill Fund, P.O. Box 413, 401 E. State Street, Trenton, N.J. 08625-0413.

B.) The **New Jersey Housing and Mortgage Finance Agency (NJHMFA)** has a Potable Water Loan Program that is available to owners of single family residences whose source of potable water exceeds the State of New Jersey's Primary Drinking Water Standards, including lead and mercury. In addition, the loan program covers iron and manganese although these contaminants do not have Primary Drinking Water Standards. For further information, please contact the NJHMFA Hotline at 1-800-NJHOUSE (1-800-654-6873) or they may be reached at: P.O. Box 18550, 637 South Clinton Avenue, Trenton, N.J. 08650-2085 or on the web at: www.state.nj.us/dec/nmjfa



TOWNSHIP OF HOPEWELL, MERCER COUNTY
OPEN PUBLIC RECORDS ACT REQUEST FORM
201 Washington Crossing-Pennington Rd, Titusville, NJ 08560
Phone: 609-737-0605; Fax: 609-737-1022
lgompf@hopewelltp.org
Laurie E. Gompf, Municipal Clerk



Important Notice

The last page of this form contains important information related to your rights concerning government records. Please read it carefully.

Requestor Information - Please Print

First Name	<u>Britney</u>	MI	<u>A.</u>	Last Name	<u>Greenaway</u>
E-mail Address	<u>britneygreenaway@yahoo.com</u>				
Mailing Address	<u>206 Andover circle</u>				
City	<u>Princeton</u>	State	<u>NJ</u>	Zip	<u>08540</u>
Telephone	<u>609 661 3520</u>	FAX			
Preferred Delivery:	Pick Up	US Mail	On-Site Inspect	Fax	E-mail ☒
If you are requesting records containing personal information, please circle one: Under penalty of N.J.S.A. 2C:28-3, I certify that I <u>HAVE</u> / <u>HAVE NOT</u> been convicted of any indictable offense under the laws of New Jersey, any other state, or the United States.					
Signature	<u>[Signature]</u>			Date	<u>2/6/2018</u>

Record Request Information: Please be as specific as possible in describing the records being requested. Also, please note that your preferred method of delivery will only be accommodated if the custodian has the technological means and the integrity of the records will not be jeopardized by such method of delivery.

Septic System and Well Documentation for the property located at:

Block 89 Lot 21E
Street Address 21E Dublin Road, Pennington NJ 08534

Payment Information

Maximum Authorization Cost \$

Select Payment Method

☒ Cash

☐ Check ☐ Money Order

Fees:

Letter size pages - \$0.05 per page

Legal size pages - \$0.07 per page

Other materials (CD, DVD, etc) - actual cost of material

Delivery: Delivery / postage fees additional depending upon delivery type.

Extras:

Special service charge dependent upon request

ere@hopewelltwp.org

From: ere@hopewelltwp.org
Sent: Tuesday, February 06, 2018 1:44 PM
To: 'Brittney Greenaway'
Cc: ere@hopewelltwp.org
Subject: RE: OPRA Request Form
Attachments: 20180206134059.pdf, 20180206133918.pdf

Please see attached.

Liz

From: Brittney Greenaway [mailto:brittneygreenaway@yahoo.com]
Sent: Tuesday, February 06, 2018 1:31 PM
To: ere@hopewelltwp.org
Subject: Re: OPRA Request Form

Hi Liz,

Thank you for emailing the form to me so quickly. Please see the attached completed form.

Brittney

On Tuesday, February 6, 2018, 11:51:22 AM EST, ere@hopewelltwp.org <ere@hopewelltwp.org> wrote:

Hello Brittney

Please see the attached Open Public Records Act Request form. Please complete the form and send it back.

Thank you

Liz

Elizabeth Re

Township of Hopewell Health Department

201 Washington Crossing Pennington Road

Titusville, NJ 08560

Phone 609.737.0605 x6570/ Direct 609.537.0257/ Fax 609.737.6836

Email: ere@hopewelltwp.org

Permit No. 2013005

Date: 1/14/2013

Hopewell Township Health Department

201 Washington Crossing – Pennington Road

Titusville, New Jersey 08560

Tel. (609) – 737-0120 Fax (609) – 737-6836

PERMIT

Applicant: Mr. & Mrs. Chervenak Iii

Block 89.00, Lot 26.00

For: INDIVIDUAL SUBSURFACE SEWAGE DISPOSAL SYSTEM ALTERATION

Location: 26 Dublin Road

Fee: \$625.00

24 Hour Inspection Notification Required

This permit is NOT transferrable.

Permit Expires 2 years after date of issue

Authorized by:

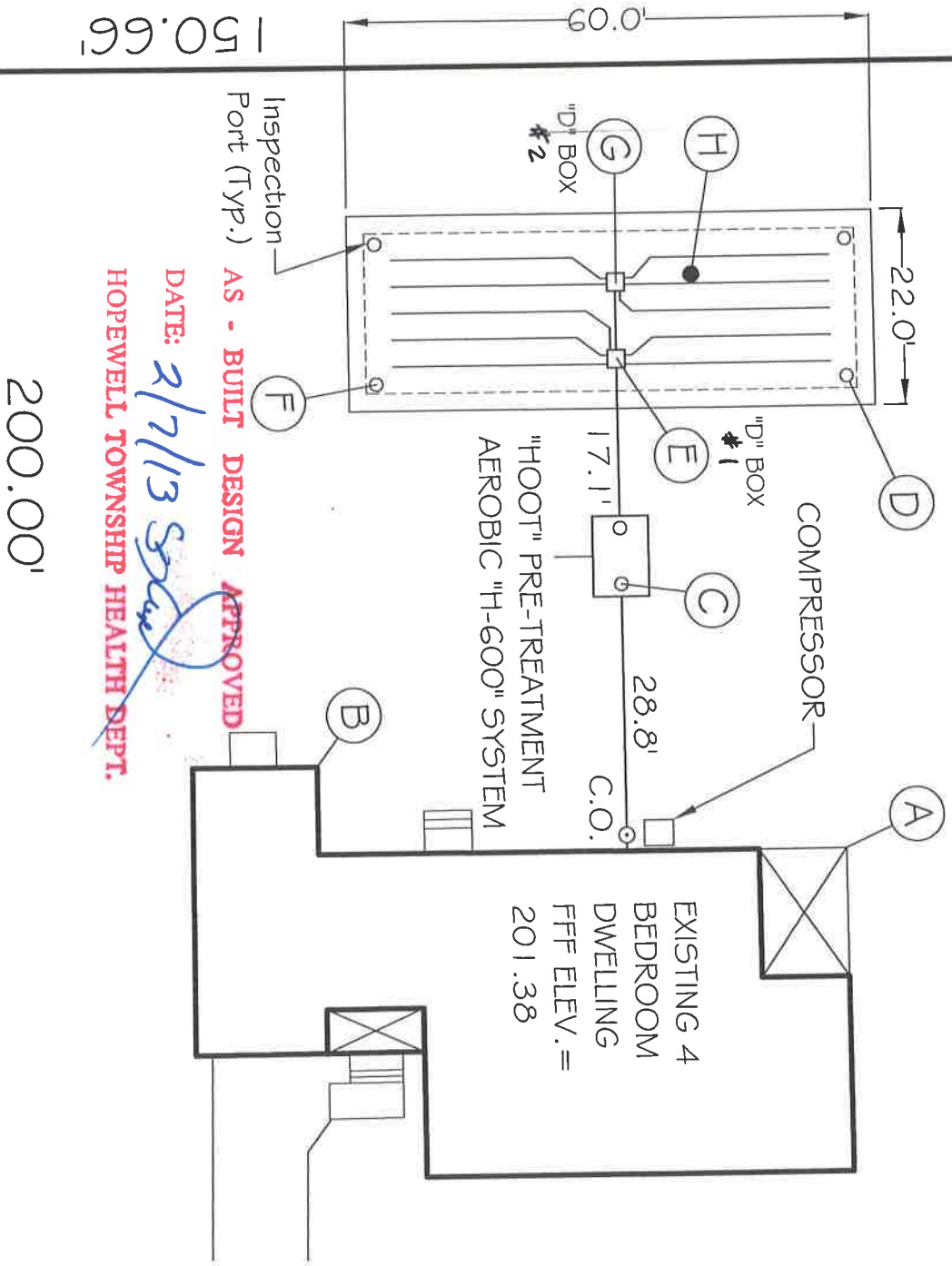

Hopewell Township Health Department

Glenwood Drive

175.00'

SEPTIC SYSTEM TIE DISTANCES

A-C= 39.2' B-C=40.7' - Aerobic Tank Access
A-D= 54.0' B-D=76.0' - Inspection Port
A-E= 61.0' B-E=58.0' - "D" Box #1
A-F= 74.6' B-F= 44.2' - Inspection Port
A-G= 68.4' B-G= 65.7' - "D" Box #2
A-H= 67.2' B-H= 70.0' - Monitor Port
TOP OF FILTER SAND ELEV. = 197.2



DATE: 2/7/13
HOPEWELL TOWNSHIP HEALTH DEPT.

Frank J. Falcone New Jersey Professional Planner & Land Surveyor

Kevin M. Brakel New Jersey Professional Engineer

PJE Princeton Junction Engineering, P.C.
Professional Engineers, Land Surveyors and Planners

P.O. Box 6110 - 53 North Post Road
Princeton Junction, New Jersey 08550
Telephone: 609.799.1906 Facsimile: 609.799.1524 Email: PJEP@pjepc.com

Sewage Disposal Asbuilt Plan
Lot 26, Block 89

Christina L Chervenak
Hopewell Township • Mercer County • New Jersey

D. Geoffrey Brown
Frank J. Falcone
Ted W. Pivovarnick
Martin D. Katz
Kevin M. Brakel

FE#415 No.24327
PE No.3760
PLS No.32112
PLS No.35866
PLS No.36249
FE No.44194

Frank J. Falcone
Kevin M. Brakel

2/4/13
Date

Date: 2/4/13
Scale: 1"=20'
Drawn: FJF
Check: FJF/KMB

Revisions:
Job#: F121207
Dwg:
View: Plan



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

D. GEOFFREY BROWN, P.E., L.S. & P.P.
FRANK J. FALCONE, L.S. & P.P.
TED W. PIVOVARNIK, L.S.
MARTIN D. KATZ, L.S.
KEVIN M. BRAKEL, P.E.

NORTH POST ROAD
P.O. Box 610
PRINCETON JUNCTION, NJ 08550
609.799.1906
FAX: 609.799.1524
EMAIL: PJEPC@PJEPC.COM

CERTIFICATE OF COMPLIANCE

County/Municipality of Hopewell Twp., Mercer Co., NJ

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-1 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

- Permitted Activities (Check applicable categories):
Permit Number _____
☒ New Construction
☐ Alteration/No Expansion or Change of Use
☐ Alteration/Expansion or Change of Use
☐ Alteration/Malfunctioning System
☐ Deviation from Standards
☐ Repairs to Existing System
- Location of Project:
Municipality Hopewell Twp., Mercer Co., NJ Lot 26 Block 89
Street Address _____
- Name and Present Address of Applicant: Christina L. Chervenak, 26 Dublin Road, Pennington, NJ 08534
Applicant's Phone Number _____

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.


Kevin M. Brakel, N.J.P.E. 44194

SEAL

Date: 2/5/13

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 _____

Date _____

For Agency Use Only _____

Date Received: 2/6/13

Form Determined To Be: X Complete

_____ Incomplete

Date Certification Approved: 2/7/13

Authorized Signature: _____

Amended by R. 1993 d. 294, effective June 21, 1993,
See: 24 N.J.R. 1987(a), 25 N.J.R. 2704(b)
Certocompliance doc.



HOOT TREATMENT SYSTEM INITIAL SERVICE POLICY

HOOT Aerobic Systems, Inc.
2885 Highway 14 East Lake Charles, Louisiana 70607
(337) 474-2804 phone (337) 477-7904 fax

Our Company Met-A-Supply will operate and maintain the Hoot Aerobic System located at 26 Dubois Rd, Farmington, MS (legal description only)
Permit # _____ for the period of 2 years beginning 07-31-13 and ending 1-31-15.

This contract will provide for all required inspections, testing and service of your HOOT Aerobic Treatment System. The policy will include the following:

1. 2 inspections a year/service calls (at least one every 6 months), for a total of 4 over the two-year period including inspection, adjustment and servicing of the mechanical, electrical and other applicable component parts to ensure proper function. This includes inspecting control panel, air pumps, air filters, diffuser operation, and replacing or repairing any component not found to be functioning correctly.
2. An effluent quality inspection consisting of a visual check for color, turbidity, scum overflow and examination for odors. A test for chlorine residual and pH will be taken and reported as necessary.
3. If any improper operation is observed, which cannot be corrected at the time of the service visit, you will be notified immediately in writing of the conditions and estimated date of correction.
4. The Homeowner is responsible for maintaining a chlorine residual of at least 1mg/L in the treatment system. This can be accomplished by using chlorine tablets designed for wastewater use, NOT SWIMMING POOL TABLETS. Upon visit, if the system needs chlorine tablets the service provider will add them and charge the customer. If the customer fails in their responsibility to add the chlorine tablets, they are in violation of law and appropriate action will be taken. Initials of Installer WPA Initials of Homeowner _____
5. Any additional visits, inspections or sample collections required by specific Municipalities, Water/River Authorities, County Agencies the TNRCC or any other regulatory agency in your jurisdiction will be covered by this policy.

At the conclusion of the initial service policy, the Service Provider will make available, for purchase on an annual basis, a continuing service policy to cover labor for normal inspection, maintenance and repair. According to state law, all owners of aerobic systems must maintain a factory authorized service provider for the lifetime of the system.

The HOOT Homeowners Manual must be strictly followed or warranties are subject to invalidation. Pumping of sludge build-up, for reasons other than due to warranted mechanical failure, are not covered by this policy and will result in additional charges. By signing this form, both Installer and Homeowner agree to the terms of this policy. By signing this form, both the Installer and the Homeowner agree that the Homeowner has received a copy of the Homeowners Manual and the Installer has made a reasonable effort to explain all pertinent information to the Homeowner.

HOOT is not responsible for service, it is the SERVICE PROVIDER indicated below.

HOME OWNER

Name Mrs. Christine Chevalier
Address 26 Dubois Rd
Farmington, MS
City 609 737-1488
Phone
Signature of Home Owner Christine Chevalier

SERVICE PROVIDER

Name of Service Company Met-A-Supply
Address 210 Hickman Rd
Ottawa, Pa.
City (610) 847-7222
Phone
Signature of Service Provider C. J. Shaff
License # _____

THIS BOX MUST BE COMPLETED BY THE SERVICE PROVIDER

HOOT Model # 46003F Blower/Panel Serial # 905 HOOT Mold # _____

White Copy - Home Owner Yellow Copy - Installer Pink Copy - HOOT Goldemrod Copy - Regulatory Agency



Princeton Junction Engineering, P.C.
Professional Engineers and Land Surveyors

Bryce M. Ritterhouse, P.E., L.S., & P.P.*
D. Geoffrey Brown, P.E., L.S., & P.P.
Wesley J. Latta, L.S.*
Frank J. Falcone, L.S. & P.P.
Ted W. Provornick, L.S.
Martin D. Kalz, L.S.
Kevin M. Brakel, P.E.

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

Textural Sieve Analysis Data for Suitable Fill

Client: CHRISTINA CHEVENAK Lot: 26 Block: 89
Location: 26 DUBLIN RD Township: HOPEWELL
Test No.: 1
Date Collected: 01/31/13 Date Tested: 01/31/13

1. Total Weight of Sample (Grams) 1538.5

2. Textural Sieve Analysis

Sieve #	Weight Retained (Grams)	Weight Passed (Grams)	Percentage Passed	Acceptable Values
3/8"	0.0	1538.5	100.0%	100%
#8	136.7	1401.8	91.1%	80-100%
#16	182.1	1219.7	79.3%	50-85%
#30	555.1	664.6	43.2%	25-60%
#50	475.6	189.0	12.3%	10-30%
#100	104.2	84.8	5.5%	2-10%

3. 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:	FRANK FALCONE	Date:	01/31/13
Signature of Professional Engineer:	KEVIN M. BRAKEL	NJPE&LS	44194

Affix Seal

Permit No. 2013005

Date: 1/14/2013

Hopewell Township Health Department

201 Washington Crossing – Pennington Road

Titusville, New Jersey 08560

Tel. (609) – 737-0120 Fax (609) – 737-6836

PERMIT

Applicant: Mr. & Mrs. Chervenak III

Block 89.00, Lot 26.00

For: INDIVIDUAL SUBSURFACE SEWAGE DISPOSAL SYSTEM ALTERATION

Location: 26 Dublin Road

Fee: \$625.00

24 Hour Inspection Notification Required

This permit is NOT transferrable.

Permit Expires 2 years after date of issue

Authorized by: 
Hopewell Township Health Department

PRINCETON JUNCTION ENGINEERING, P.C.
53 NORTH POST ROAD
P.O. Box 610
PRINCETON JUNCTION, NEW JERSEY 08550
ph. (609) 799-1906 fax. (609) 799-1524

2013-005

Township of Hopewell
JAN 11 2013

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

FORM 1 - GENERAL INFORMATION

1. **Type of Permit Needed** (Check Applicable Categories):
☐ New Construction
☐ Alteration/No Expansion or Change of Use
☐ Alteration/Expansion or Change of Use
☒ Alteration/Malfunctioning System
☐ Deviation from Standards
☐ Repairs to Existing System

2. **Location of Project:**
Municipality HOPEWELL TWP., MERCER CO., NEW JERSEY
Block 89
Lot 26
Street Address: # 26 DUBLIN ROAD
PENNINGTON, NJ 08534

3. **Names(s) of Applicant(s):** Christina L. Chervenak % Grace Hollendonner
4. **Applicant(s) Present Address:** 26 DUBLIN ROAD
PENNINGTON, NJ 08534

5. **Applicant(s) Phone Number:** 609-638-4848-EXT-221

6. **Type of Facility:** Swimming Pool ☐ Yes ☒ No
☒ Residential
☐ Commercial/Institutional
Specify Type of Establishment:

7. **Type of Wastes Discharged:** Garbage Disposal ☐ Yes ☒ No
☒ Sanitary Sewage
☐ Industrial Wastes
☐ Other - Specify Type _____

8. **Other Approval/Certifications/Waivers/Exemptions**
(Attach to Application):
☐ Pinelands Commission
☐ U.S. Army Corps of Engineers
☐ N.J.D.E.P. & E. - Bureau of Flood Plain Management
☐ Other - Specify:

9. 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 Christina L. Chervenak % Grace Hollendonner, PCF Date 1/11/2013

FOR AGENCY USE ONLY
☐ Application Denied - Reason for Denial/Citation of Rules Violated: _____

- ☒ Application Approved
☐ Application Approved Subject to Approval by N.J.D.E.P. & E.

Date of Action 1-14-13
Signature of Authorized Agent [Signature]
Name and Title _____

PRINCETON JUNCTION ENGINEERING COMPANY
53 NORTH POST ROAD
P.O. BOX 610
PRINCETON JUNCTION, NEW JERSEY 08550
ph.(609) 799-1906 fax.(609) 799-1524

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

Form 2a - General Site Evaluation Data:
Client/Project: Christina I. Chervenak
Municipality: Hopewell Twp. Mercer Co. New Jersey. Lot: 26 Block: 89

1. Name of Site Evaluator (print): Frank J. Falcone
2. Business Address of Site Evaluator:
(See Above)
3. Business Phone Number of Site Evaluator: 609-799-1906
4. Special Site Limitations Identified (check appr. 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 1 sheet for each soil log)

6. Considerations Relating to Disturbed Ground: N/A
a. Type of Disturbance (check appr. categories):

☐ Filled Area
☐ Excavated Area
☐ Re-graded Area
☐ Subsurface Drains
☐ Other - Specify _____

b. Pre-existing Natural Ground Surface
Elevation relative to existing ground surface 198.5
Method of identification On-site Topographic Survey

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: N/A

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:

☒ Site Plan

☒ Key Map showing location of site on U.S.G.S. Quadrangle of other accurate map.

☒ Key Map showing location of site on U.S.D.A. Soils Survey Map.

☐ Other - Specify _____

9. I hereby certify that the information furnished on Form 1 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 Soil Evaluator  Date 12/21/12
Soils Evaluator: Frank J. Falcone

Signature of Professional Engineer  License# 44194
Kevin M. Brakei N.J.P.E.

AFFIX SEAL
C:\SOILS\FORM.2A

PRINCETON JUNCTION ENGINEERING COMPANY
53 NORTH POST ROAD
P.O. BOX 223
PRINCETON JUNCTION, NEW JERSEY 08550
ph.(609) 799-1906 fax.(609) 799-1524

Form 2b - Soil Log and Interpretation:

Christina L. Chervenak - 26 Dublin Road, Pennington, N.J. 08534

1. Municipality Hopewell Township, Mercer County, New Jersey Lot 26 Block 89

Log Number #1 Method (Check One): X Profile pit Boring

2. Soil Log: Depth; Munsell Color Name and Symbol; Estimated Textural (inches) Class; Estimated Volume% Coarse Fragment, if Top-Bottom present; Structure; Moist or Dry Consistency; Mottling-Abundance, Size and Contrast, if present.

3. <u>DEPTH</u> 0"-10"	<u>MUNSELL COLOR</u> 10YR 4/4	<u>DESCRIPTION</u>
10"-54"	5YR 4/6	Silty Clay Loam: 2% medium gravel; Mottles-7.5YR7/1, few, fine distinct, 48"-54"; moderate, medium, subangular blocky, moderate, medium; moist, very firm; few, fine roots to 40"; gradual, smooth, boundary.
54"-96"	5YR 4/4	Clay Loam: 5% gravel-cobble mix coarse fragment content; mottles: 7.5YR 5/8/ 10YR6/1, many, medium, distinct; weak, medium angular Blocky; moist, very firm; no roots; gradual, wavy boundary.
96"-136"	5YR 4/4	Clay Loam: 85% gravel-cobble-stone coarse fragments; mottles: 7.5YR5/8, 10YR6/1 common, medium, distinct; no roots.

3. Ground Water Observation:

 * Seepage - Indicate Depth 108", slow
 Pit / Boring Flooded - Depth after Hours:

4. Soil Limiting Zones (Check Appropriate Categories):

 Fractured Rock Substratum - Depth to Top
 Massive Rock Substratum - Depth to Top
X Excessively Coarse Horizon - Depth Top to Bottom 96"-136"
 Excessively Coarse Substratum - Depth to Top
X Hydraulically Restrictive Horizon - Depth Top to Bottom 0"-96"
 Hydraulically Restrictive Substratum - Depth to Top
 Perched Zone of Saturation - Depth Top to Bottom
X Regional Zone of Saturation - Depth to Top 48"

5. Soil Suitability Classification: **III Hr (II 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.A.C. 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 12/13/12
Frank J. Falcone

Signature of Professional Engineer  Date 12/13/12
Kevin M. Brakel P.E. #44194

PRINCETON JUNCTION ENGINEERING COMPANY
53 NORTH POST ROAD
P.O. BOX 223
PRINCETON JUNCTION, NEW JERSEY 08550
ph.(609) 799-1906 fax.(609) 799-1524

Form 2b - Soil Log and Interpretation:

Christina L. Chervenak - 26 Dublin Road, Pennington, N.J. 08534

1. Municipality Hopewell Township, Mercer County, New Jersey Lot 26 Block 89

Log Number #2 Method (Check One): X Profile pit Boring

2. Soil Log: Depth; Munsell Color Name and Symbol; Estimated Textural (inches) Class; Estimated Volume% Coarse Fragment, if Top-Bottom present; Structure; Moist or Dry Consistency; Mottling-Abundance, Size and Contrast, if present.

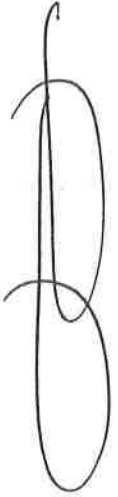
3. <u>DEPTH</u> 0"-10"	<u>MUNSELL COLOR</u> 10YR 4/4	<u>DESCRIPTION</u> Silt Loam: No coarse fragments content, no mottles; moderate, medium subangular, blocky; moist, firm to friable; many fine roots; clear, smooth boundary.
10"-48"	5YR 4/6	Silty Clay to Clay Loam: 5% gravel; no mottles; moderate, medium, angular blocky, moderate, moist firm to very firm; few, fine roots to 30", gradual, wavy, boundary.
48"-107"	5YR 4/4	Clay Loam: 80% gravel-cobble coarse fragments; mottles: 7.5YR5/8, 10YR7/1 common, medium, distinct 48"-107"; moist firm to very firm; no roots.

3. Ground Water Observation:
 * Seepage - Indicate Depth 60", slow
 Pit / Boring Flooded - Depth after Hours:

4. Soil Limiting Zones (Check Appropriate Categories):
 Fractured Rock Substratum - Depth to Top
 Massive Rock Substratum - Depth to Top
X Excessively Coarse Horizon - Depth Top to Bottom 48"-107"
 Excessively Coarse Substratum - Depth to Top
X Hydraulically Restrictive Horizon - Depth Top to Bottom 0"-48"
 Hydraulically Restrictive Substratum - Depth to Top
 Perched Zone of Saturation - Depth Top to Bottom
X Regional Zone of Saturation - Depth to Top 48"

5. Soil Suitability Classification: **III Hr (II Hc, 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.A.C. 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 12/13/12
Frank J. Falcone

Signature of Professional Engineer  Date 12/13/12
Kevin M. Brakel P.E. #44194

PRINCETON JUNCTION ENGINEERING COMPANY
53 NORTH POST ROAD
P.O. BOX 610
PRINCETON JUNCTION, NEW JERSEY 08550
ph.(609) 799-1906 fax.(609) 799-1524

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

Form 3a - Soil Permeability Data:

Client/Project: Christina L. Chervenak
Municipality Hopewell Twp., Mercer Co., New Jersey Lot 26 Block 89

Assign a number for each test and a letter for each test replicate, show test data and calculations on Forms 3b, 3c, 3d, 3e, 3f, or 3g. Use one sheet for separate tests or test replicates.

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

Type of Test	Test #	Replicate #	Depth(in.)	* Result
<u>Pit Bail</u>	<u>#1</u>	<u>_____</u>	<u>136</u>	<u>Ka=1.86</u>
<u>Pit Bail</u>	<u>#2</u>	<u>_____</u>	<u>107</u>	<u>Ka=1.88</u>

* For tube permeameter, pit-bailing and piezometer tests, report results in inches per hour. For soil permeability class rating, give soil permeability class number. For percolation tests, report results in minutes per inch. For basin flooding tests, report results as positive if basin drains completely within 24 hours after second filling, negative if otherwise.

2. Design Permeability/Percolation Rate: 6-20 In/hr Specify Test Number _____.

_____ Average of test replicates
_____ Single replicate
_____ Slowest of replicates
X Assumed in place select fill material

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 Test Data - sheets _____.
_____ Form 3d - Percolation Test Data - Number of sheets _____.
_____ Form 3e - Piezometer Test Data - Number of sheets _____.
X Form 3f - Pit-Bailing Test Data - Number of sheets 2.
_____ Form 3g - Basin Flooding Test Data - Number of sheets _____.

5. 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.A.C. 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 12/21/12.

Soils Evaluator: Frank J. Falcone

Signature of Professional Engineer  Lic. No. 44194

Kevin W. Brakel N.J.P.E.

AFFIX SEAL
C:\SOILS\FORM.3A

Pit Ball Test Calculation Spreadsheet
Princeton Junction Engineering, P.C., PO#610 Princeton Jct., N.J. 08550 Ph#609-799-1906

P.C., PO#610 Hmction Jct., N.J. 08000		Date of Test (Field):	12/13/12
a L. Cherveniak		Pit Bail #	1
Lot: 26	Block: 89	Date of Run (Office):	12/18/12
Municipality: HOPEWELL TOWNSHIP			

Lot:	26	Block:	89	Pit Ball #	
Municipality:	HOPEWELL TOWNSHIP				
		Date of Run (Office):	12/18/12		

Distance Reference Line (String) to Bottom of Pit (In.) =

Distance Reference Line (String) to Static Water Level (In.) =

Distance to bottom of Pit / Impermeable Stratum, (ft.) Dstratum =

Height of Static Water Level above Btm. Of Pit / Impermeable Stratum (ft.) H=

0.00
136.00
113.00
11.33
1.92

[illegible]

$$K_a = (14.5/1088) \times [10.29/2.27(1.92^2 - 1.31^2)] \times 60 = 1.86$$



Date 12/18/12

12/18/12
Date

File Name:

Ph#609-799-1906

Date of Test (Field): 12/13/12

Pit Bail #	2
------------	---

Date of Run (Office): 12/18/12

00.00

107.00

50.50

8.92

4.71

0.00
107.00
50.50
8.92
4.71

[illegible]

$$K_a = (3/30) \times [14.44/2.27(4.71^2 - 1.38^2)] \times 60 = 1.88$$

I hereby certify that the information furnished on Form 3F of this application is true & 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.

Date _____

Date _____

File Name:

Date _____

PRINCETON JUNCTION ENGINEERING COMPANY
53 NORTH POST ROAD
P.O. BOX 610

PRINCETON JUNCTION, NEW JERSEY 08550
ph. (609) 799-1906 fax. (609) 799-1525

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

Form 4 - General Design Data:

Client/Project: Christina L. Chevermak
Municipality: Hopewell Twp., Mercer Co., New Jersey. Lot: 26 Block: 89.

1. Volume of Sanitary Sewage 650 "Q" gals.
X Residential:
Number of Dwelling Units ;
Total Number of Bedrooms 4
 Commercial/Institutional - Indicate Type of Establishment and method of calculation. If estimate is based on water

2. Alterations or Repairs

- a. Reason for Alteration or Repair (check appr. categories):
 Expansion or Change in Use
 Upgrade Existing Facilities
X Correct Malfunctioning System
 Other - Specify
b. Describe Nature of Alteration or Repairs: Correct Existing Malfunctioning Septic System

3. Components

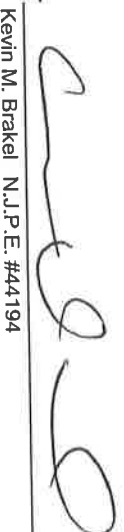
- a. Grease Trap Capacity gals. N/A-Proposed "Hoot" H600A Advanced Pre-Treatment Device
b. Septic Tank Capacities: First Compartment (single) gals.
Second Compartment gals.
Third Compartment gals.
c. Effluent Distribution Method: Gravity Flow
 Gravity Dosing
 Pressure Dosing
Dosing Device: Pump, Siphon
d. Dosing Tank Capacities: Total Capacity gals.
Dose Volume gals.
Reserve Capacity gals.
e. Laterals: Number 10 Length 24
Pipe Size 4" Dia. Spacing 3'
f. Connecting Pipe: Size 4" Length 40' Delivery Pipe: Size 4" Length 12'
g. Manifold: Size Length Design Permeability (percolation rate) Concrete Sand
h. Disposal Field: Type of Installation SRE Total Length .
Trenches: Width Area 1,008 ft²
Bed: Area 1,008 ft²
i. Seepage Pits: Design Permeability (percolation rate) Number of Pits .
Total Percolation Area Provided .

4. Attachments (check items included):

- X General Plan showing location of all system components.
X X-Section of each system component, including Grease Trap, Septic Tank, Dosing Tank, Disposal Field, Seepage Pits and Interceptor Drain.
 Pump Performance Curve.
X Other - Specify General System Details.

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 Design Engineer



Date 12/21/12

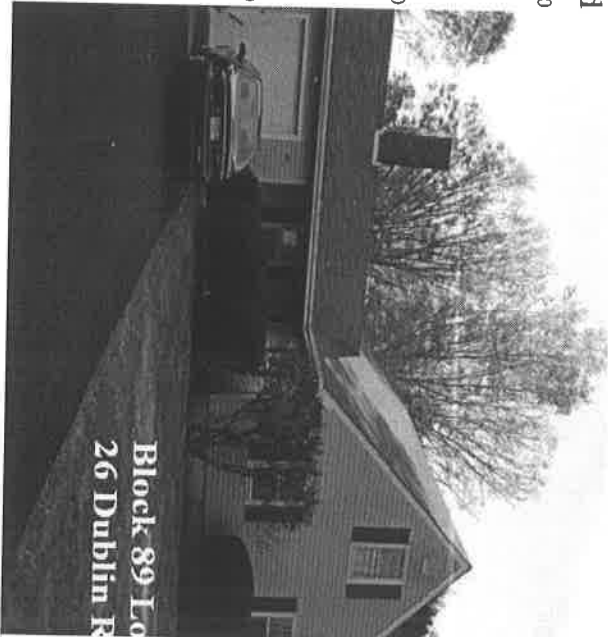
AFFIX SEAL

C:\SOILSI\FORM.4

Kevin M. Brakel N.J.P.E. #44194

Block:	89	Prop Loc:	26 DUBLIN RD	Owner:	CHERVENAK CHRISTINA L	Square Ft	2340
Lot:	26	District:	06 HOPEWELL TWP 08525	Street:	26 DUBLIN RD	Year Built:	1955
Qual:		Class:	2	City State:	PENNINGTON NJ Zip: 08534	Bldg:	5
Additional Information							
Prior Block:		Acct Num:		Addl Lots:		EPL Code:	00 00 000
Prior Lot:		Mtg Acct:		Land Desc:	.69AC	Statute:	
Prior Qual:		Bank Code:		Bldg Desc:	1.5SF 1AG	Initial:	000000Further: 000000
Updated:	01/26/06	Tax Codes:	F01 A01	Class4Cd:		Desc:	
Zone:	R100	Map Page:	1401	Acreege:	0.690	Taxes:	(57): 10432.00 (58): 10824.00
Sale Date:	00/00/00	Book:		Sale Information		Ratio:	0.00
		Page:		Price:	0 NU#:		

TAX-LIST-HISTORY

Year	Owner Information	Land/Imp/T	ot Exemption Assessed	
2013	CHERVENAK CHRISTINA L 26 DUBLIN RD PENNINGTON NJ 08534	166100 264100 430200	0 430200	
2012	CHERVENAK CHRISTINA L 26 DUBLIN RD PENNINGTON NJ 08534	166100 264100 430200	0 430200	
2011	CHERVENAK MICHAEL C 3RD & CHRIS L 26 DUBLIN RD PENNINGTON NJ 08534	166100 264100 430200	0 430200	
2010	CHERVENAK MICHAEL C 3RD & CHRIS L 26 DUBLIN RD PENNINGTON NJ 08534	211100 264100 475200	0 475200	

CHANGE-HISTORY

Date Change Detail

12/22/08 land value=[211100] impr value=[264100] totl value=[475200]
12/13/10 Year built=[1955] land value=[166100] impr value=[264100] totl value=[430200]

JAN 02 2018

(mailed)

REC'D
Health

B/L 89

let 26



TOWNSHIP OF HOPEWELL
MERCER COUNTY

201 Washington Crossing Pennington Road
Titusville, New Jersey 08560-1410
Phone: 609.737.0605
Fax: 609.737.1022

REQUEST FOR INFORMATION

1.

Received from: 11

Date of Request:

1/2/2018

Jung Susan Shin, Mabel Real Estate
2 Court 31 St, Pennington, NJ 08534
(Address)

2.

Telephone No:

734-834-7697

email: jshin@mabel.com

3.

Document/Information Requested:

Property: 26 Dublin Rd.

- Permit info on property - addition, electrical,
- Septic permit info Plumbing
- Well test info

Please note there often are charges for the production of information requests. Those who make a request for information must pay the charge for the copies, reproduction, retrieval costs and materials before any copies of information will be released.

For Office Use

Fee Paid:

Rec'd by:

Date given:

Given by:

Notes:

ER 1/2/18

ere@hopewelltwp.org

From: ere@hopewelltwp.org
Sent: Tuesday, January 02, 2018 12:10 PM
To: jshin@weidel.com
Cc: ere@hopewelltwp.org
Subject: 26 Dublin Road
Attachments: 20180102120312.pdf, 20180102120604.pdf

Please see attached. This is what we have on file for the septic and well.
Thank you
Liz

Elizabeth Re

Township of Hopewell Health Department

201 Washington Crossing Pennington Road

Titusville, NJ 08560

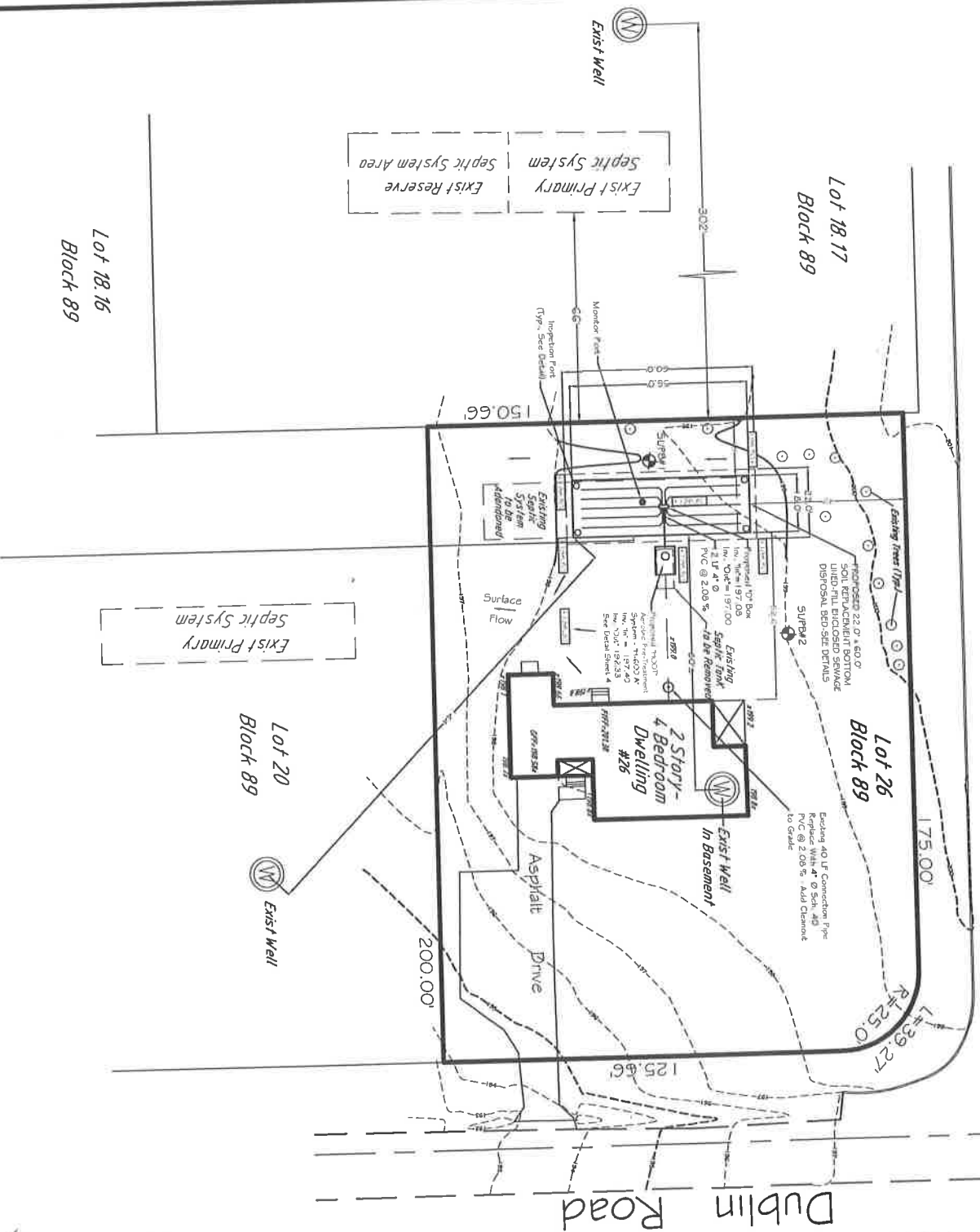
Phone 609.737.0605 x6570/ Direct 609.537.0257/ Fax 609.737.6836

Email: ere@hopewelltwp.org

Lot 18.02
Block 89

Lot 29
Block 89

Glenwood Drive



Note: Location and elevations of underground utilities and features shown hereon, have been collected from various sources and are not guaranteed as to accuracy or completeness. The contractor shall verify all information to his satisfaction prior to excavation or construction. Where existing utilities or features may interfere with proposed construction, test pits shall be dug by the contractor prior to construction to ascertain existing locations and elevations. Any conflicts shall be brought to the attention of the engineer prior to construction to permit adjustments as required to resolve conflicts.

- NOTES
1. SEE SHEET 2 FOR SEWAGE DISPOSAL SYSTEM DETAIL.
 2. UNLESS OTHERWISE SHOWN, THERE ARE NO SEWAGE DISPOSAL SYSTEMS WITHIN 150 FEET OFF THE PROPOSED DISPOSAL SYSTEM.

REVISED 1/14/13 - GRADING

Frank J. Falcone New Jersey Professional Planner & Land Surveyor

Kevin M. Brakel New Jersey Professional Engineer



Princeton Junction Engineering, P.C.
Professional Engineers, Land Surveyors and Planners
P.O. Box 610 - 53 North Post Road
Princeton Junction, New Jersey 08550

Sewage Disposal System Replacement Plan
Lot 26, Block 89

Christina L Chervenak

Telephone: 609.799.1906 Facsimile: 609.799.1524 Email: FJF@pc.com

Hopewell Township • Mercer County • New Jersey

D. Geoffrey Brown
Frank J. Falcone
Ted W. Pivarnick
Martin D. Katz
Kevin M. Brakel

FE#415 No.24327
PE No.3760
PLS No.32112
PLS No.35866
PLS No.36249
PE No.44194

Frank J. Falcone

1/14/13
Date

1/14/13
Date

Date: 1/21/12

Scale: 1"=50'

Drawn: FJF

Check: FJF/KMB

Sheet 1

Revisions:
Job#: F121207
Dwg:
View: Plan

DESIGN

APPROVED

DATE: 1/14/13 *Steve*
HOPEWELL TOWNSHIP HEALTH DEPT.

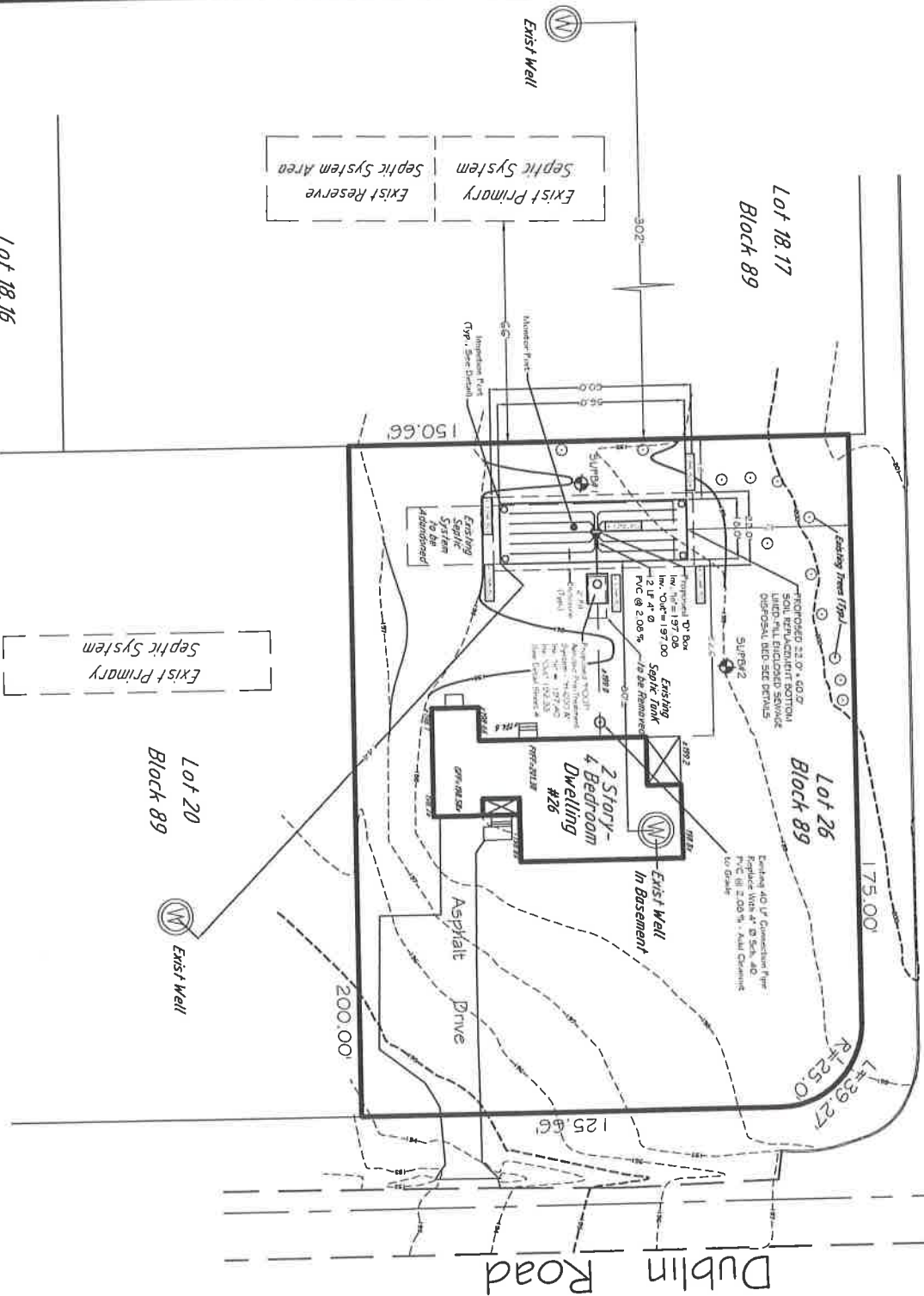
Lot 18.02
Block 89

Lot 29
Block 89

Glenwood Drive

Lot 18.16
Block 89

Lot 20
Block 89



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NOTES

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2. UNLESS OTHERWISE SHOWN, THERE ARE NO SEWAGE DISPOSAL SYSTEMS WITHIN 150 FEET OFF THE PROPOSED DISPOSAL SYSTEM.



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Kevin M. Brakel New Jersey Professional Engineer



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Professional Engineers, Land Surveyors and Planners
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Princeton Junction, New Jersey 08550

Sewage Disposal System Replacement Plan
Lot 26, Block 89

Christina L. Chervenak

Telephone: 609.799.1906 Facsimile: 609.799.1524 Email: JFRC@pjepc.com

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D. Geoffrey Brown
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Kevin M. Brakel

FE#RT5 No.24327
FP No.3760
PLS No.32112
PLS No.35866
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Frank J. Falcone

Kevin M. Brakel

Kevin M. Brakel

12/21/12

Date

Date: 12/21/12

Scale: 1"=50'

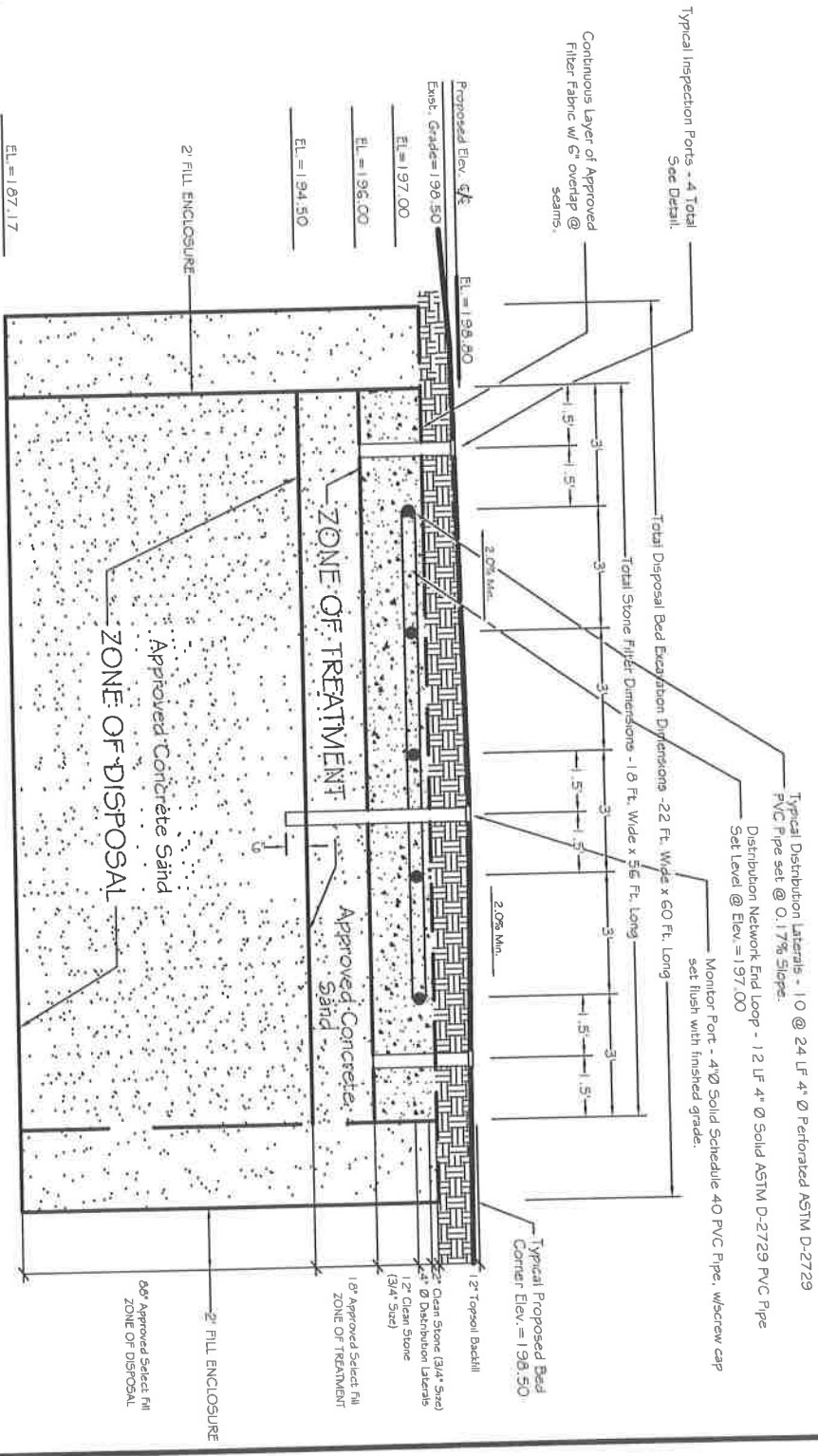
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Check: FJF/KMB

Revisions:

Job#: F121207
Dwg:
View: Plan

Sheet 1



SOIL REPLACEMENT-BOTTOM LINED-FILL ENCLOSED DISPOSAL BED

Not to Scale

DISPOSAL BED SIZING CALCULATION

Existing 4 Bedroom Dwelling=200 GPD+(3 x 150 GPD)=650 GPD "Q"
Use of an Advanced Waste Water Pre-Treatment Device - Use 1,233 SF/GPD Gravity Distribution
650 GPD x 1,233 SF/GPD = 801,45 SF Minimum Disposal Bed Area
801.45 SF Minimum Disposal Bed Area x 25% Hopewell Twp. Oversize Factor = 1,001.8 sq. ft.
1,001.8 SF/18' Disposal Bed Width =55.66' - USE 56'
Excavate Total Bottom Disposal Bed 18 Ft. Wide x 56 Ft. Long = 1,008 SF

Frank J. Falcone New Jersey Professional Planner & Land Surveyor

Kevin M. Brakel New Jersey Professional Engineer



Princeton Junction Engineering, P.C.
Professional Engineers, Land Surveyors and Planners

Sewage Diposal System Replacement Plan
Lot 26, Block 89

P.O. Box 610 - 53 North Post Road

Princeton Junction, New Jersey 08550

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Frank J. Falcone
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Martin D. Katz
Kevin M. Brakel

PE&LS
PP
PLS
PLS
PLS
PE

No.24327
No.3760
No.32112
No.35668
No.36249
No.44194

Frank J. Falcone

Kevin M. Brakel

12/21/12
Date

Date: 12/21/12

Scale: 1"=50'

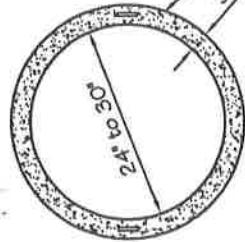
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Check: FJF/KMB

Revisions:

Job#: P121207
Dwg:
View: Plan

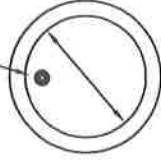
Sheet 3



End Cap Detail

NOT TO SCALE

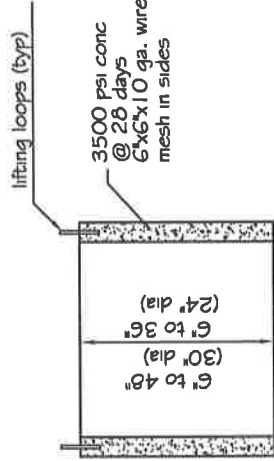
1/8\"/>



FILTER FABRIC SPECIFICATIONS

TERRATEX 50 OR EQUAL
125 LBS.
GRAB TENSILE STRENGTH
275 LBS./SQ. IN.
MULLEN BURST STRENGTH
60 %
ELONGATION
WATER PERMEABILITY COEFFICIENT
-2 CM/SEC.
THE FABRIC IS TO BE LAPPED OVER THE
TOP OF STONE A MIN. OF 6"

Plan View

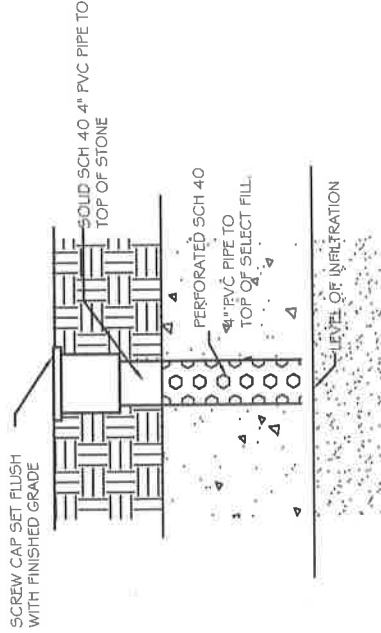


Section View

CONCRETE EXTENSION

(mts)

Inspection Port Detail



Advance Wastewater Pretreatment Unit Notes:

1. All advance wastewater pretreatment units shall be compliance with Section 8.3 of the current NJAC 7:9A Standards for Individual Subsurface Sewage Disposal Systems.
2. The following requirements are applicable to the installation of an advance wastewater treatment device:
 - a. An authorized installer shall be physically present at all times during installation of an advance wastewater treatment device and either install or directly oversee the installation of the advance pretreatment device.
 - b. The authorized installer shall ensure that the property owner has been provided with a copy of the service contract and agrees to comply with the requirements therein by obtaining their written acknowledgment via signature prior to the installation of any system that incorporates an advance wastewater pretreatment device.
 - c. All advance wastewater pretreatment devices shall be installed in accordance with directions provided in the advance wastewater pretreatment device manufacturer's installation manual and the approved system design.
 - d. The authorized installer shall be in possession of all necessary permits, approvals and licenses before attempting any portion of the installation. All documentation must be located at the installation site for the duration of the installation and made available upon request by the administration authority or the department.
 - e. The watertightness of any tanks specified in the design must be watertight tested at the installation site after the tank has been installed, in accordance with the same requirements identified for septic tanks at NJAC 7:9A-8.2(m).
3. All maintenance and monitoring of the Advance Wastewater pretreatment device shall be in compliance with NJAC 7:9A-12.3

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PEP/LS No.24327
PLS No.32112
PLS No.35666
PLS No.36269
PE No.44194

Frank J. Falcone

Kevin M. Brakel

General Disposal System Details
of Lot - 26, Block - 89 for

Christina L. Chervenak

Hopewell Township • Mercer County • New Jersey

Date: 12/21/12

Scale: None

Drawn: FJF

Check: KMB

Date: 12/21/12

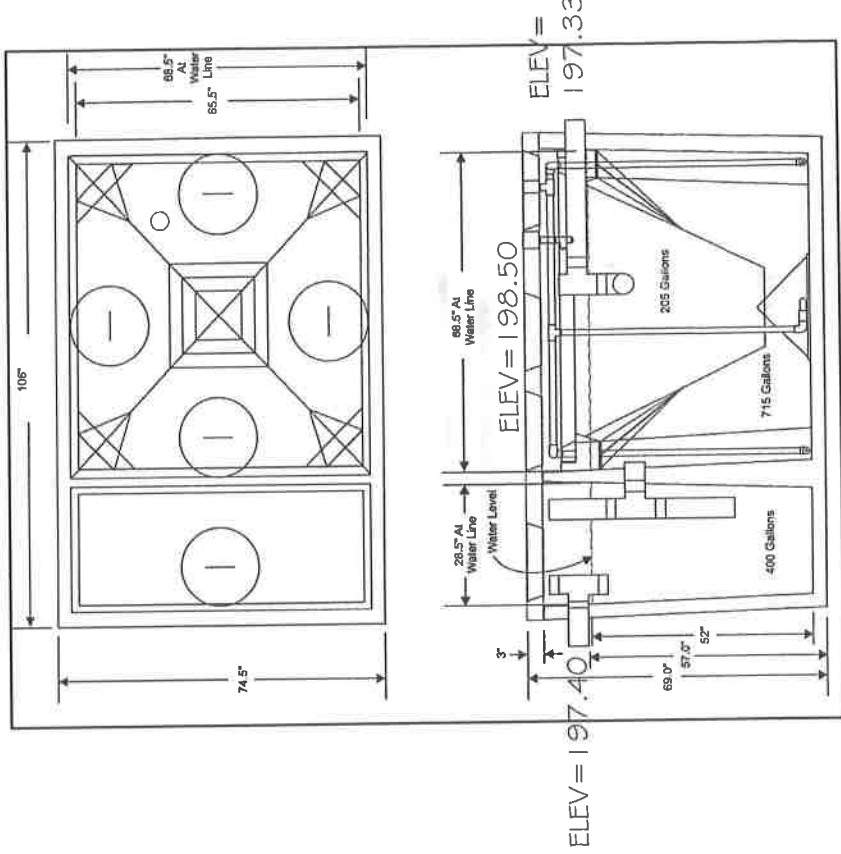
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Sheet 4

Job No: 12121207
Date: 05 Detail Sht
View: Plot



HOOT AEROBIC SYSTEM - H-600A

not to scale

DISPOSAL SYSTEM NOTES:

1. Prior to the installation of fill material, the disposal field excavation shall be performed in accordance with N.J.A.C. 7:9a-10.3(c) 1 through 5.
2. Work should be scheduled so that the bottom and sidewalls of the excavation will not be exposed to rainfall or windblown silt between time of excavation and time of final inspection and grading.
3. Any loose soil or debris which is washed into or deposited within the excavation shall be removed prior to the construction of the distribution network.
4. Any smeared or compacted soil surfaces within the disposal field excavation shall be removed to expose a fresh soil surface.
5. Excavations in soils other than sands or loamy sands shall not be continued when soil moisture content is above the lower plastic limit.
This means when a small lump of soil, taken from the depth of the proposed excavation, can be rolled out with the fingers to form a wire or rod one-eighth of an inch in thickness and does not crumble when handled.
6. Clayey soils encountered in the bottom of the excavation shall be removed and replaced with suitable fill.
7. The fill material installed in the zone of disposal shall meet the specifications as follows:
Coarse fragment content less than 1.5% by volume or less than 25% by weight; Textural Analysis (composition, by weight, of size fraction passing the 2 mm sieve); 85% or more sand; Permeability greater than 2 inches per hour; or percolation rate faster than 30 min. per inch
8. The suitable fill material installed in the zone of treatment shall have a coarse fragment content (greater than a No.8 sieve) less than 1.5% by volume or less than 20% by weight Textural analysis (composition by weight of size fraction passing the particular sieve between 80 and 100% must pass a No.8 sieve (2.36 mm); between 50% to 85% must pass a No. 16 sieve (1.18 mm); between 25 and 60% must pass a No.30 sieve (0.6 mm); between 10 and 30% must pass a No.50 (0.3 mm); and between 2 and 10% must pass a No. 100 sieve (0.15 mm); and permeability for this material is established at the range of 6 to 20 inches per hour for design purposes.
9. All fill material shall be spread and compacted in layers one foot or less in thickness and compacted manually or mechanically, by tamping or rolling, by driving over the filled area in a controlled pattern using tracked or rubber tired vehicles, or by puddling.
10. Heavy excavating equipment shall not be operated directly on the exposed bottom of the excavation. If heavy excavating equipment is used to compact the fill material, the first lift shall be one foot in thickness.
11. The filter material shall consist of washed gravel or crushed stone, free of fines, dust, ashes or clay. It shall conform in size and gradation to size #24, #3 or #4 of the N.J.D.O.T. standard for coarse aggregates.
12. The filter material shall be installed into the disposal system excavation using a backhoe, front end loader or dump truck from the sides.
13. Construction of the distribution network shall be in accordance with 7:9a-10.3(d).
14. PVC distribution laterals shall meet ASTM standards D-2729, D-3033 or D-3034.
15. Filter material is to be covered with drainage fabric as the laying of distribution lines progresses. Drainage fabric shall be overlapped a minimum of 6".
16. Filter fabric shall have a grab tensile strength of 125 lbs., mullen burst strength of 275 lbs., elongation 80% & permeability coefficient of 0.2 cm/sec. Filter fabric shall be Terratex sd or equal.
17. Construction of the distribution box shall be in accordance with 7:9a-9.4.
18. The distribution box shall be set directly on the filter material within the disposal bed.
19. A permanent concrete monument will be installed over the distribution box flush with finished grade.
20. Construction of the connecting pipe or delivery pipe shall be in accordance with 7:9a-9.3.
21. All changes of direction in the soil pipe and connecting pipe shall employ max. 45' fittings and shall include cleanouts.
22. Soil pipe and connecting pipe shall be placed on a stabilized base of quarry blend stone extending to virgin ground.
23. PVC connecting pipes will meet ASTM standard D-2665 - schedule 40, SDR-21 or SDR-26.
24. The building sewer shall be designed and constructed in accordance with the provisions of the state uniform construction code, N.J.A.C. 5:23, adopted pursuant to the uniform construction code act, N.J.S.A. 52:27d(1)9 et seq.
25. Septic tanks shall be precast concrete tanks constructed of concrete conforming to ACI318-16-4.5.1 and 318-16-4.5.2. Certification shall be provided by the manufacturer and the certification displayed on the tank.
26. A Hoot Aerobic System; H-600A or approved equal meeting NSF Standard 40 and/or Standard 245 Certification
27. All manhole covers and inspection ports in the septic tank shall have water tight bolted or locked caps set flush with finish grade.
28. All interior concrete surfaces shall be sealed with two coatings of an approved inert coating to minimize corrosion. Coating shall be applied prior to delivery by the manufacturer.
29. Septic tanks shall be fabricated and installed in accordance with 7:9a-8.2.
30. A permanent marker shall be placed on grade above the septic tank upon completion of the installation.
31. Backfill and final grading shall be carried out in accordance with 7:9a-10.3(f).
32. Topsoil shall be lightly compacted by tamping or rolling to prevent settlement and shall be seeded and mulched or sodded immediately upon completion of final grading.
33. All trees with drip lines within 10 ft. of the disposal field shall be removed prior to construction.
34. There shall be no existing or proposed disposal systems within 50 ft. of the proposed disposal field.
35. No garbage disposal unit of any kind shall be connected to this disposal system.
36. Backwash from water softeners or other drainage other than sanitary sewerage shall not enter the disposal system.
37. All soil evaluation procedures relied upon as a basis for the design of the subject individual subsurface sewage disposal system were carried out by or under the direct supervision of a professional engineer and witnessed by the administrative authority.
38. Vegetative planting in the disposal area shall be limited to grass unless otherwise specified by the administrative authority.
39. An annual inspection of the system shall begin three (3) years after installation or pump out of the septic tank.
40. The disposal system contractor is responsible for confirmation that all materials utilized in the construction of the disposal system are in accordance with N.J.A.C. 7:9a
41. When placement of the disposal field is proposed in an area of disturbed ground as defined at 7:9a-5.10, an acceptable state of compaction of the soil or fill material shall be verified by laboratory tests, and the design engineer shall certify a minimum compaction of 90 percent of the standard proctor density.
42. All regraded areas shall comply with 7:9a-10.3.
43. Storm sewers within 75 ft. of the disposal system shall be constructed with watertight joints.
44. There shall be no existing or proposed wells within 100 ft. of the proposed disposal field.
45. ALL SEPTIC AND DOSING TANKS, INCLUDING RISERS AND INSPECTION PORTS TO THE HIGHEST JOINTS, SHALL BE TESTED FOR WATER TIGHTNESS AFTER INSTALLATION USING HYDROSTATIC OR VACUUM TESTS IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN N.J.A.C. 7:9A8.2(m)
46. THIS PLAN IS FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT ONLY.

Frank J. Falcone New Jersey Professional Land Surveyor & Professional Planner

Kevin M. Brakel New Jersey Professional Engineer

PJE Princeton Junction Engineering, P.C. General Disposal System Notes
Professional Engineers, Land Surveyors and Planners
of Lot- 26, Block - 89 for

P.O. Box 610 - 53 North Post Road
Princeton Junction, New Jersey 08550

Telephone: 609.799.1906 Facsimile: 609.799.1524 Email:PJEFPC@pjepc.com

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PE#PJS No.24327
PJS No.32112
PS No.3760
PS No.33869
PJS No.36249
PE No.44154

Frank J. Falcone

12/21/12
Date

Date: 12/21/12

Sheet 5

Scale: None

Drawn: FJF

Check: FJFKMB

Revisions:

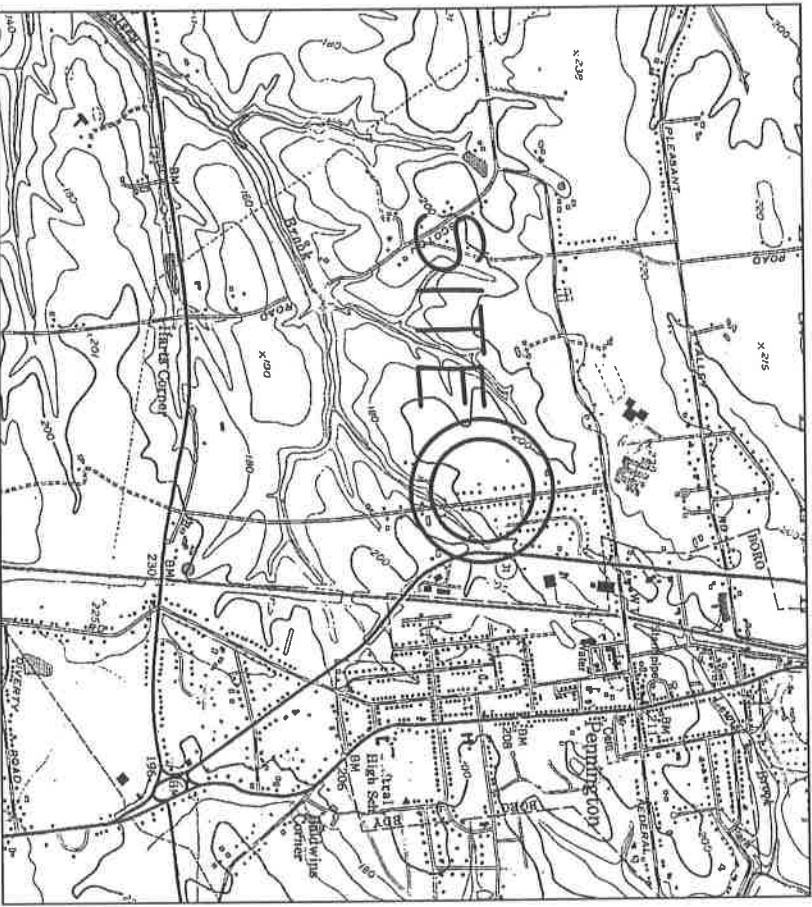
Job#: F121207
Dwg: 008-Notes
View: WINDOW



USDA SOIL SURVEY MAP

Scale 1"=200'

Note: Entire Site Consists of "Bucks Silt Loam" BucB



U.S.G.S. "PENNINGTON" QUADRANGLE MAP

Scale 1"=2000'

Frank J. Falcone New Jersey Professional Land Surveyor & Professional Planner

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P.O. Box 6110 - 53 North Post Road
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Telephone: 609.799.1906 Facsimile: 609.799.1524 Email:PJEPC@pjecc.com

Key Maps

of Lot-26, Block-89 for

Christina L. Chervenak

Hopewell Township * Mercer County * New Jersey

D. Geoffrey Brown
Frank J. Falcone
Ted W. Tivonamick
Martin D. Katz
Kevin M. Brakel

PE&PLS
PLS
PLS
PLS
PE

No.24327
No.32112
No.35666
No.36249
No.44194

Frank J. Falcone

12/21/12

Date

Kevin M. Brakel

12/21/12

Date

Date: 12/21/12

Sheet 6

Scale: As Shown

Drawn: FLF

Check: FJF/KMB

(Continued)

Job# J121207
Date: 06-12-2007
User: WJDCW

PRINCETON JUNCTION ENGINEERING, P.C.
53 NORTH POST ROAD
P.O. Box 610
PRINCETON JUNCTION, NEW JERSEY 08550
ph. (609) 799-1906 fax. (609) 799-1524

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

FORM 1 - GENERAL INFORMATION

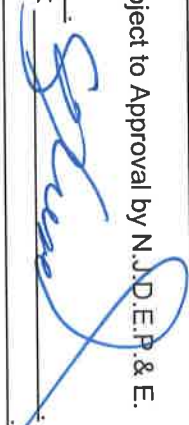
1. **Type of Permit Needed** (Check Applicable Categories):
☐ New Construction
☐ Alteration/No Expansion or Change of Use
☐ Alteration/Expansion or Change of Use
☒ Alteration/Malfunctioning System
☐ Deviation from Standards
☐ Repairs to Existing System
2. **Location of Project:**
Municipality HOPEWELL TWP., MERCER CO., NEW JERSEY
Block 89
Lot 26
Street Address: # 26 DUBLIN ROAD
PENNINGTON, NJ 08534
3. **Names(s) of Applicant(s):** Christina L. Chervenak % Grace Hollendonner
4. **Applicant(s) Present Address:** 26 DUBLIN ROAD
PENNINGTON, NJ 08534
5. **Applicant(s) Phone Number:** 609-638-4848-EXT-221
6. **Type of Facility:**
☒ Residential
☐ Commercial/Institutional
Specify Type of Establishment: _____
Swimming Pool ☐ Yes ☒ No
7. **Type of Wastes Discharged:**
☒ Sanitary Sewage Garbage Disposal ☐ Yes ☒ No
☐ Industrial Wastes
☐ Other - Specify Type _____
8. **Other Approval/Certifications/Waivers/Exemptions**
(Attach to Application):
☐ Pinelands Commission
☐ U.S. Army Corps of Engineers
☐ N.J.D.E.P. & E. - Bureau of Flood Plain Management
☐ Other - Specify: _____
9. 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 _____ Date _____

FOR AGENCY USE ONLY

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

☒ Application Approved
☐ Application Approved Subject to Approval by N.J.D.E.P. & E.

Date of Action 11/14/13
Signature of Authorized Agent 
Name and Title _____

PRINCETON JUNCTION ENGINEERING COMPANY
53 NORTH POST ROAD
P.O. BOX 610
PRINCETON JUNCTION, NEW JERSEY 08550
ph.(609) 799-1906 fax.(609) 799-1524

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

Form 2a - General Site Evaluation Data:

Client/Project: Christina I. Chervenak

Municipality: Hopewell Twp., Mercer Co., New Jersey, Lot: 26 Block: 89

1. Name of Site Evaluator (print): Frank J. Falcone
2. Business Address of Site Evaluator: _____
(See Above)

3. Business Phone Number of Site Evaluator: 609-799-1906
4. Special Site Limitations Identified (check appr. 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 1 sheet for each soil log)

6. Considerations Relating to Disturbed Ground: N/A

a. Type of Disturbance (check appr. categories):
☐ Filled Area
☐ Excavated Area
☐ Re-graded Area
☐ Subsurface Drains
☐ Other - Specify _____

b. Pre-existing Natural Ground Surface
Elevation relative to existing ground surface 198.5
Method of identification On-site Topographic Survey

c. Suitability of Disturbed Ground
☐ Unsuitable: Objects subject to disintegration or change in volume.
☐ Excessively Coarse

7. Proctor Test Performed-% Standard Proctor Density= _____
Hydraulic Head Test: N/A

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: _____

8. Signature _____ Date _____
Attachments:
☒ Site Plan
☒ Key Map showing location of site on U.S.G.S. Quadrangle of other accurate map.
☒ Key Map showing location of site on U.S.D.A. Soils Survey Map.
☐ Other - Specify _____

9. I hereby certify that the information furnished on Form 1 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 Soil Evaluator _____ Date 12/21/12
Soils Evaluator: Frank J. Falcone

Signature of Professional Engineer Kevin M. Brakel License# 44194
Kevin M. Brakel N.J.P.E.

AFFIX SEAL
C:\SOILS\FORM 2A

PRINCETON JUNCTION ENGINEERING COMPANY
53 NORTH POST ROAD
P.O. BOX 223
PRINCETON JUNCTION, NEW JERSEY 08550
ph.(609) 799-1906 fax.(609) 799-1524

Form 2b - Soil Log and Interpretation:

Christina L. Chervenak - 26 Dublin Road, Pennington, N.J. 08534

1. Municipality Hopewell Township, Mercer County, New Jersey Lot 26 Block 89

Log Number #1 Method (Check One): X Profile pit Boring

2. Soil Log: Depth; Munsell Color Name and Symbol; Estimated Textural (inches) Class; Estimated Volume% Coarse Fragment, if Top-Bottom present; Structure; Moist or Dry Consistency; Mottling-Abundance, Size and Contrast, if present.

3. DEPTH	MUNSELL COLOR	DESCRIPTION
0"-10"	10YR 4/4	Silt Loam: No coarse fragments content, no mottles; moderate, medium subangular, blocky; moist, firm to friable; many fine to medium roots; clear, smooth boundary.
10"-54"	5YR 4/6	Silty Clay Loam: 2% medium gravel; Mottles-7.5YR7/1, few, fine distinct, 48"-54", moderate, medium, subangular blocky, moderate, medium; moist, very firm; few, fine roots to 40"; gradual, smooth, boundary.
54"-96"	5YR 4/4	Clay Loam: 5% gravel-cobble mix coarse fragment content; mottles: 7.5YR 5/8/ 10YR6/1, many, medium, distinct; weak, medium angular Blocky; moist, very firm; no roots; gradual, wavy boundary.
96"-136"	5YR 4/4	Clay Loam: 85% gravel-cobble-stone coarse fragments; mottles: 7.5YR5/8, 10YR6/1 common, medium, distinct; no roots.

3. Ground Water Observation:

 * Seepage - Indicate Depth 108", slow
 Pit / Boring Flooded - Depth after Hours:

4. Soil Limiting Zones (Check Appropriate Categories):

 Fractured Rock Substratum - Depth to Top
 Massive Rock Substratum - Depth to Top
X Excessively Coarse Horizon - Depth Top to Bottom 96"-136"
 Excessively Coarse Substratum - Depth to Top
X Hydraulically Restrictive Horizon - Depth Top to Bottom 0"-96"
 Hydraulically Restrictive Substratum - Depth to Top
 Perched Zone of Saturation - Depth Top to Bottom
X Regional Zone of Saturation - Depth to Top 48"

5. Soil Suitability Classification: **III Hr (II 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.A.C. 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 12/13/12
Frank J. Falcone

Signature of Professional Engineer  Date 12/13/12
Kevin M. Brakel P.E. #44194

PRINCETON JUNCTION ENGINEERING COMPANY
53 NORTH POST ROAD
P.O. BOX 223
PRINCETON JUNCTION, NEW JERSEY 08550
ph.(609) 799-1906 fax.(609) 799-1524

Form 2b - Soil Log and Interpretation:

Christina L. Chervenak - 26 Dublin Road, Pennington, N.J. 08534

1. Municipality Hopewell Township, Mercer County, New Jersey Lot 26 Block 89

Log Number #2 Method (Check One): X Profile pit ___ Boring

2. Soil Log: Depth; Munsell Color Name and Symbol; Estimated Textural (inches) Class; Estimated Volume% Coarse Fragment, if Top-Bottom present; Structure; Moist or Dry Consistency; Mottling-Abundance, Size and Contrast, if present.

3. DEPTH	MUNSELL COLOR	DESCRIPTION
0"-10"	10YR 4/4	Silt Loam: No coarse fragments content, no mottles; moderate, medium subangular, blocky; moist, firm to friable; many fine roots; clear, smooth boundary.
10"-48"	5YR 4/6	Silty Clay to Clay Loam: 5% gravel; no mottles; moderate, medium, angular blocky, moderate, moist firm to very firm; few, fine roots to 30"; gradual, wavy, boundary.
48"-107"	5YR 4/4	Clay Loam: 80% gravel-cobble coarse fragments; mottles: 7.5YR5/8, 10YR7/1 common, medium, distinct 48"-107"; moist firm to very firm; no roots.

3. Ground Water Observation:

* Seepage - Indicate Depth 60", slow
___ Pit / Boring Flooded - Depth after ___ Hours:

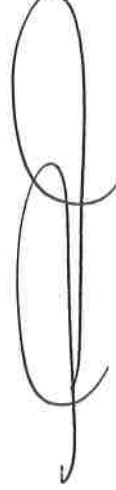
4. Soil Limiting Zones (Check Appropriate Categories):

___ Fractured Rock Substratum - Depth to Top
___ Massive Rock Substratum - Depth to Top
X Excessively Coarse Horizon - Depth Top to Bottom 48"-107"
___ Excessively Coarse Substratum - Depth to Top
X Hydraulically Restrictive Horizon - Depth Top to Bottom 0"-48"
___ Hydraulically Restrictive Substratum - Depth to Top
___ Perched Zone of Saturation - Depth Top to Bottom
X Regional Zone of Saturation - Depth to Top 48"

5. Soil Suitability Classification: III Hr (II Hc, 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.A.C. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Site Evaluator



Frank J. Falcone

Date 12/13/12

Signature of Professional Engineer



Kevin M. Brakel P.E. #44194

Date 12/13/12

AFFIX SEAL HOLLENDONNER -SL-2-2B.doc

PRINCETON JUNCTION ENGINEERING COMPANY
53 NORTH POST ROAD
P.O. BOX 610
PRINCETON JUNCTION, NEW JERSEY 08550
ph.(609) 799-1906 fax.(609) 799-1524

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

Form 3a - Soil Permeability Data:
Client/Project: Christina L. Chervenak
Municipality Hopewell Twp. Mercer Co., New Jersey Lot 26 Block 89

Assign a number for each test and a letter for each test replicate, show test data and calculations on Forms 3b, 3c, 3d, 3e, 3f, or 3g. Use one sheet for separate tests or test replicates.

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

Type of Test	Test #	Replicate #	Depth(in.)	* Result
Pit Bail	#1		136	Ka=1.86
Pit Bail	#2		107	Ka=1.88

* For tube permeameter, pit-bailing and piezometer tests, report results in inches per hour. For soil permeability class rating, give soil permeability class number. For percolation tests, report results in minutes per inch. For basin flooding tests, report results as positive if basin drains completely within 24 hours after second filling, negative if otherwise.

2. Design Permeability/Percolation Rate: 6-20 In/hr Specify Test Number _____

☐ Average of test replicates
☐ Single replicate
☐ Slowest of replicates
☒ Assumed in place select fill material

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 Test Data - sheets _____
☐ Form 3d - Percolation Test Data - Number of sheets _____
☐ Form 3e - Piezometer Test Data - Number of sheets _____
☒ Form 3f - Pit-Bailing Test Data - Number of sheets 2
☐ Form 3g - Basin Flooding Test Data - Number of sheets _____

5. 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.A.C. 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 12/21/12.
Soils Evaluator: Frank J. Falcone

Signature of Professional Engineer  _____ Lic. No. 44194
Kevin M. Brakel N.J.P.E.

AFFIX SEAL
C:\SOILS\FORM.3A

Princeton Junction Engineering, P.C., PO#610 Princeton Jct., N.J. 08550 Ph#609-799-1906

Lot: 26	Block: 89	Pit Bail # 2
Municipality: HOPEWELL TOWNSHIP		
		Date of Run (Office): 12/18/12

Distance Reference Line (String) to Bottom of Pit (In.) =

Distance Reference Line (String) to Bottom of Pit (In.) =

Distance Reference Line (String) to Static Water Level (In.) =

0.00
107.00
50.50
8.92
4.71

[illegible]

$$K_a = \frac{h \cdot r \cdot e / t \cdot n}{x} \cdot A_{av} / 2.27 (H_2 - h_2) \cdot x 60 \text{ min/hr.}$$

$$K_a = (3/30) \times [14.44/2.27(4.71^2 - 1.38^2)] \times 60 = 1.88$$

I hereby certify that the information furnished on Form 3F of this application is true & 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.

Frank J. Falcone:

Kevin M. Brakel, P.E. #44194

File Name:

Date 12/18/12

Date 12/18/12

PRINCETON JUNCTION ENGINEERING COMPANY
53 NORTH POST ROAD
P.O. BOX 610
PRINCETON JUNCTION, NEW JERSEY 08550
ph. (609) 799-1906 fax. (609) 799-1525

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

Form 4 - General Design Data:

Client/Project: Christina L. Chevermak

Municipality: Hopewell Twp., Mercer Co., New Jersey. Lot: 26 Block: 89.

1. Volume of Sanitary Sewage 650 "Q" gals.

☒ Residential:

Number of Dwelling Units .

Total Number of Bedrooms 4

 Commercial/Institutional - Indicate Type of Establishment and method of calculation. If estimate is based on water

2. Alterations or Repairs

a. Reason for Alteration or Repair (check appr. categories):

 Expansion or Change in Use

 Upgrade Existing Facilities

☒ Correct Malfunctioning System

 Other - Specify

b. Describe Nature of Alteration or Repairs: Correct Existing Malfunctioning Septic System

3. Components

a. Grease Trap Capacity gals.

b. Septic Tank Capacities:

First Compartment (single) gals.

Second Compartment gals.

Third Compartment gals.

c. Effluent Distribution Method:

 Gravity Flow

 Gravity Dosing

 Pressure Dosing

Dosing Device: Pump, Siphon

d. Dosing Tank Capacities:

Total Capacity gals.

Dose Volume gals.

Reserve Capacity gals.

e. Laterals: Number 10 Length 24

Pipe Size 4" Dia. Spacing 3'

f. Connecting Pipe: Size 4" Length 40' Delivery Pipe: Size 4" Length 12'

g. Manifold: Size Length .

h. Disposal Field: Type of Installation SRE Design Permeability (percolation rate) Concrete Sand

Trenches: Width Total Length .

Bed:

Area 1,008 ft²

i. Seepage Pits: Design Permeability (percolation rate) Number of Pits .

Total Percolation Area Provided .

4. Attachments (check items included):

☒ General Plan showing location of all system components.

☒ X-Section of each system component, including Grease Trap, Septic Tank, Dosing Tank, Disposal Field, Seepage

Pits and Interceptor Drain.

 Pump Performance Curve.

☒ Other - Specify General System Details.

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 Design Engineer



Date 12/21/12

AFFIX SEAL

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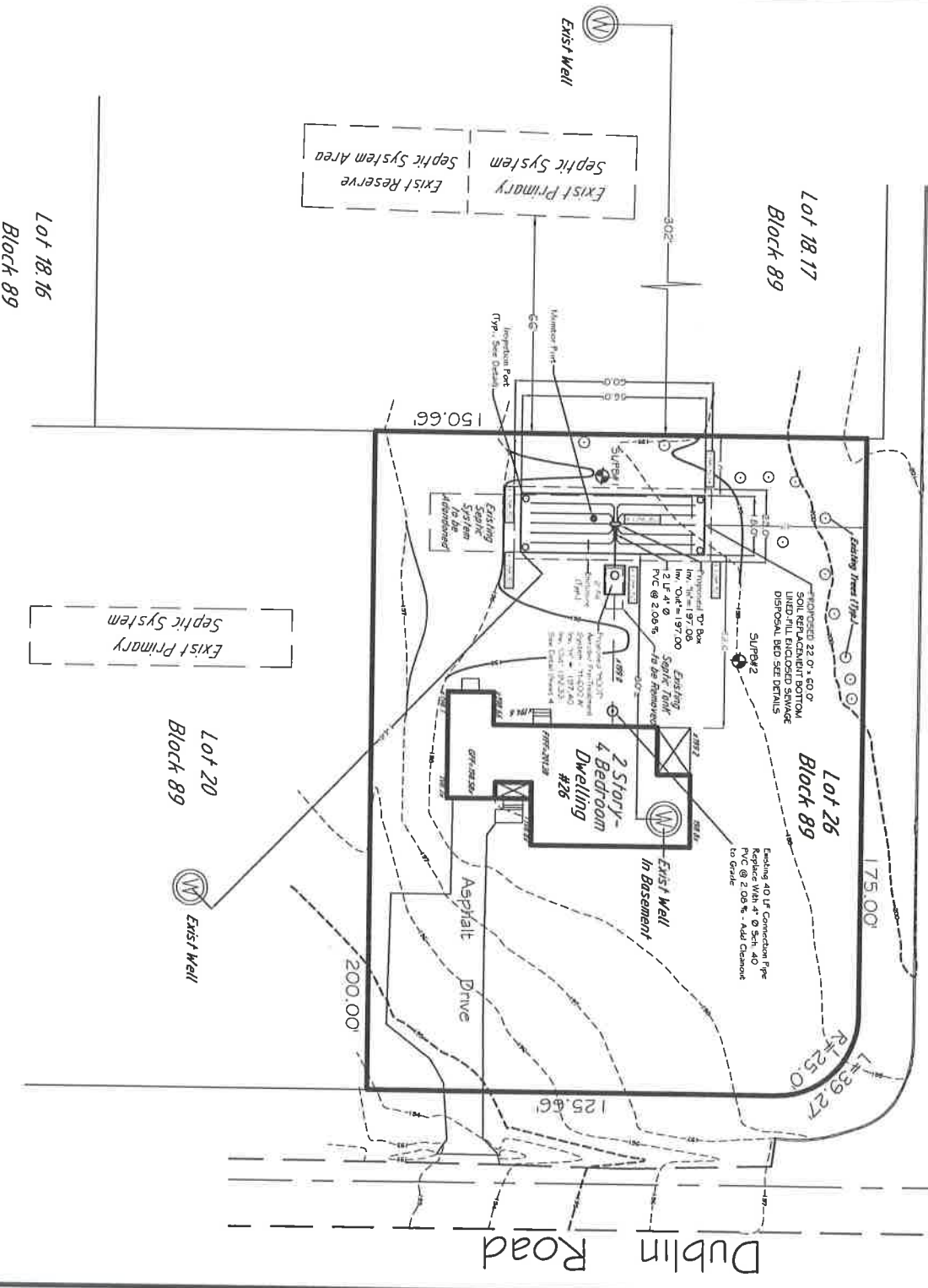
Kevin M. Brakel N.J.P.E. #44194

DESIGN APPROVED
DATE: 1/14/13
HOPEWELL TOWNSHIP HEALTH DEPT.

Lot 18.02
Block 89

Lot 29
Block 89

Glenwood Drive



Note: Location and elevations of underground utilities and features shown hereon, have been collected from various sources and are not guaranteed as to accuracy or completeness. The contractor shall verify all information to his satisfaction prior to excavation or construction. Where existing utilities or features may interfere with proposed construction, test pits shall be dug by the contractor prior to construction to ascertain existing locations and elevations. Any conflicts shall be brought to the attention of the engineer prior to construction to permit adjustments as required to resolve conflicts.

- NOTES**
1. SEE SHEET 2 FOR SEWAGE DISPOSAL SYSTEM DETAIL
 2. UNLESS OTHERWISE SHOWN, THERE ARE NO SEWAGE DISPOSAL SYSTEMS WITHIN 150 FEET OFF THE PROPOSED DISPOSAL SYSTEM.

Frank J. Falcone New Jersey Professional Planner & Land Surveyor

Kevin M. Brakel New Jersey Professional Engineer

PJ/E Princeton Junction Engineering, P.C.
Professional Engineers, Land Surveyors and Planners

P.O. Box 610 - 53 North Post Road
Princeton Junction, New Jersey 08550
Telephone: 609.799.1906 Facsimile: 609.799.1524 Email: PJEFPC@pjepc.com

Sewage Disposal System Replacement Plan

Lot 26, Block 89

Christina L. Chervenak

Hopewell Township • Mercer County • New Jersey

D. Geoffrey Brown
Frank J. Falcone
Ted W. Pivonamuck
Martin D. Katz
Kevin M. Brakel

PE#15
P15
P15
P15
FE

No.24327
No.3760
No.32112
No.35665
No.36249
No.44194

Frank J. Falcone

1/21/12

Date

Date: 1/21/12

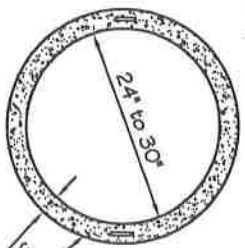
Scale: 1"=50'

Drawn: FJF

Check: FJF/KMB

Sheet 1

Revisions:
Job#: P121207
Dwg:
View: Plan

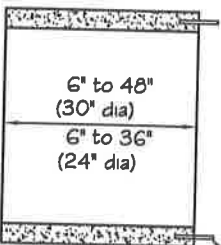


3500 PSI conc.
@ 28 days

Plan View

lifting loops (typ)

3500 PSI conc
@ 28 days
6"x6"x10 ga. wire
mesh in sides

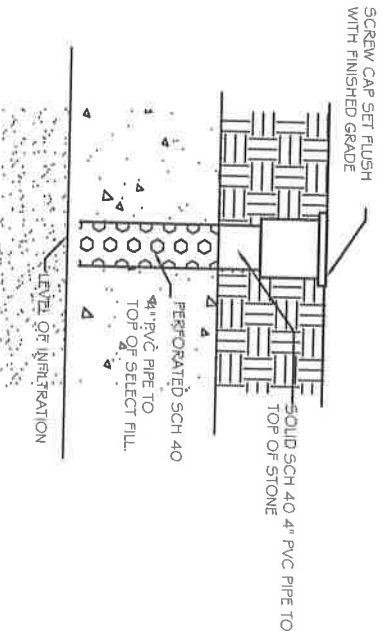


Section View

CONCRETE EXTENSION

(ft/s)

Inspection Port Detail



Advance Wastewater Pretreatment Unit Notes:

- All advance wastewater pretreatment units shall be compliance with Section 8.3 of the current NJAC 7:9A Standards for Individual Subsurface Sewage Disposal Systems.
- The following requirements are applicable to the installation of an advance wastewater treatment device:
 - An authorized installer shall be physically present at all times during installation of an advance wastewater treatment device and either install or directly oversee the installation of the advance pretreatment device.
 - The authorized installer shall ensure that the property owner has been provided with a copy of the service contract and agrees to comply with the requirements therein by obtaining their written acknowledge via signature prior to the installation of any system that incorporates an advance wastewater pre-treatment device.
 - All advance wastewater pretreatment devices shall be installed in accordance with directions provided in the advance wastewater pretreatment device manufacturer's installation manual and the approved system design.
 - The authorized installer shall be in possession of all necessary permits, approvals and licenses before attempting any portion of the installation. All documentation must be located at the installation site for the duration of the installation and made available upon request by the administration authority or the department.
 - The watertightness of any tanks specified in the design must be watertight tested at the installation site after the tank has been installed, in accordance with the same requirements identified for septic tanks at NJAC 7:9A-8.2(m).
 - All maintenance and monitoring of the Advance Wastewater pre-treatment device shall be in compliance with NJAC 7:9A-12.3

Kevin M. Brakei

New Jersey Professional Planner & Land Surveyor

Kevin M. Brakei

New Jersey Professional Engineer



Princeton Junction Engineering, P.C.
Professional Engineers, Land Surveyors and Planners
P.O. Box 610 - 53 North Post Road
Princeton Junction, New Jersey 08550

Telephone: 609.799.1906 Facsimile: 609.799.1524 Email: PJEPC@pjepc.com

D. Geoffrey Brown
Frank J. Falcone
Ted W. Fivomnick
Martin D. Katz
Kevin M. Brakei

PEFHS No.24327
PLS No.31112
PLS No.35060
PLS No.36249
FE No.44194

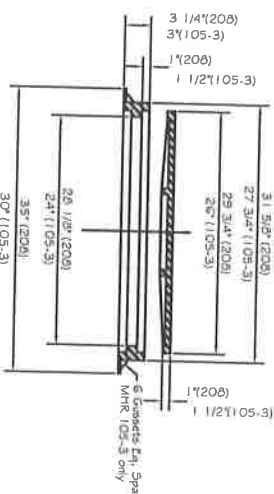
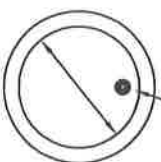
Frank J. Falcone
Kevin M. Brakei

[Signature]

End Cap Detail

NOT TO SCALE

1/8" DRILL HOLE @
CROWN FOR VENTING



FILTER FABRIC SPECIFICATIONS

TERRATEX 50 OR EQUAL
GRAB TENSILE STRENGTH
MULTIEN BURST STRENGTH
ELONGATION
WATER PERMEABILITY COEFFICIENT
THE FABRIC IS TO BE LAPPED OVER THE
TOP OF STONE A MIN. OF 6"

1.25 LBS.
275 LBS./SQ. IN.
60 %
-2 CM/SEC.

Specifications:

Specifications are from Quirn. The frame and covers are made of gray iron which meets or exceeds ASTM A48, Class 30B. Other grades of gray iron available upon request. Turnished with standard one coat of black asphaltum paint. Uncoated castings available upon MHR 105-3:

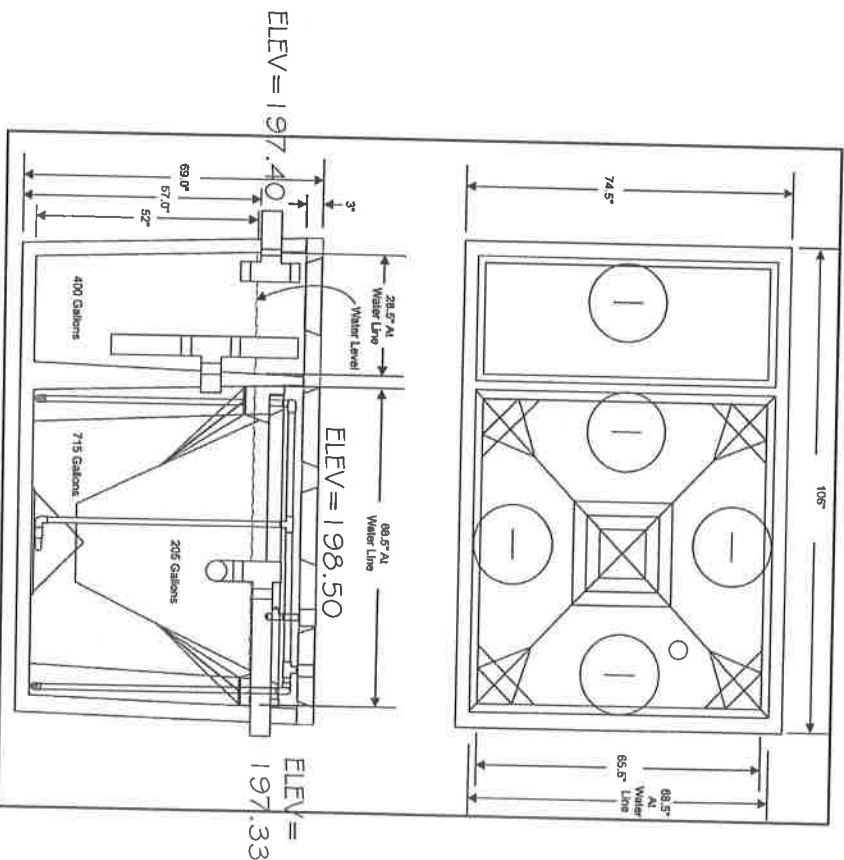
Round flange manhole frame and cover for Septic Tanks. Shall be provided with a bolting and gasket cover.

MHR 208 BF:

Light duty manhole frame and cover for Dosing Tanks. Shall be provided with a bolting and gasket cover.

Manhole Frame Detail

no scale



HOOT AEROBIC SYSTEM - H-600A

not to scale

General Disposal System Details

of Lot - 26, Block - 89 for

Christina L. Chervenak

Hopewell Township • Mercer County • New Jersey

Frank J. Falcone
Kevin M. Brakei
Date
12/21/12

Date: 12/21/12
Scale: None
Drawn: FJF
Check: KMB

Sheet 4
Job# F121207
Dwg: 05 Detail Sht
View: Plot

DISPOSAL SYSTEM NOTES:

1. Prior to the installation of fill material, the disposal field excavation shall be performed in accordance with N.J.A.C. 7:9a-10.3(c) 1 through 5.
2. Work should be scheduled so that the bottom and sidewalls of the excavation will not be exposed to rainfall or windblown silt between time of excavation and time of final inspection and grading.
3. Any loose soil or debris which is washed into or deposited within the excavation shall be removed prior to the construction of the distribution network.
4. Any smeared or compacted soil surfaces within the disposal field excavation shall be removed to expose a fresh soil surface.
5. Excavations in soils other than sands or loamy sands shall not be continued when soil moisture content is above the lower plastic limit.
This means when a small lump of soil, taken from the depth of the proposed excavation, can be rolled out with the fingers to form a wire or rod one-eighth of an inch in thickness and does not crumble when handled.
6. Clayey soils encountered in the bottom of the excavation shall be removed and replaced with suitable fill.
7. The fill material installed in the zone of disposal shall meet the specifications as follows:
Coarse fragment content less than 15% by volume or less than 25% by weight; Textual Analysis (composition, by weight, of size fraction passing the 2 mm sieve); 0.5% or more sand; Permeability greater than 2 inches per hour; or Percolation rate faster than 30 min. per inch
8. The suitable fill material installed in the zone of treatment shall have a coarse fragment content (greater than a No. 8 sieve) less than 15% by volume or less than 20% by weight; Textual analysis (composition by weight of size fraction passing the particular sieve between 80 and 100%) must pass a No. 8 sieve (2.36 mm); between 50% to 85% must pass a No. 16 sieve (1.18 mm); between 25 and 60% must pass a No. 30 sieve (0.6 mm); between 10 and 30% must pass a No. 50 sieve (0.3 mm); and between 2 and 10% must pass a No. 100 sieve (0.15 mm); and permeability for this material is established at the range of 6 to 20 inches per hour for design purposes.
9. All fill material shall be spread and compacted in layers one foot or less in thickness and compacted manually or mechanically, by tamping or rolling, by driving over the filled area in a controlled pattern using tracked or rubber tired vehicles, or by puddling.
10. Heavy excavating equipment shall not be operated directly on the exposed bottom of the excavation. If heavy excavating equipment is used to compact the fill material, the first lift shall be one foot in thickness.
11. The filter material shall consist of washed gravel or crushed stone, free of fines, dust, ashes or clay. It shall conform in size and gradation to size #24, #3 or #4 of the N.J.D.O.T. standard for coarse aggregates.
12. The filter material shall be installed into the disposal system excavation using a backhoe, front end loader or dump truck from the sides.
13. Construction of the distribution network shall be in accordance with 7:9a-10.3(d).
14. PVC distribution laterals shall meet ASTM standards D-2729, D-3033 or D-3034.
15. Filter material is to be covered with drainage fabric as the laying of distribution lines progresses. Drainage fabric shall be overlapped a minimum of 6".
16. Filter fabric shall have a grab tensile strength of 125 lbs., mullen burst strength of 275 lbs., elongation 80% & permeability coefficient of 0.2 cm/sec. Filter fabric shall be Terrtex sd or equal.
17. Construction of the distribution box shall be in accordance with 7:9a-9.4.
18. The distribution box shall be set directly on the filter material within the disposal bed.
19. A permanent concrete monument will be installed over the distribution box flush with finished grade.
20. Construction of the connecting pipe or delivery pipe shall be in accordance with 7:9a-9.3.
21. All changes of direction in the soil pipe and connecting pipe shall employ max. 45' fittings and shall include cleanouts.
22. Soil pipe and connecting pipe shall be placed on a stabilized base of quarry blend stone extending to virgin ground.
23. PVC connecting pipes will meet ASTM standard D-2665 - schedule 40, SDR-21 or SDR-26.
24. The building sewer shall be designed and constructed in accordance with the provisions of the state uniform construction code, N.J.A.C. 5:23, adopted pursuant to the uniform construction code act, N.J.S.A. 52:27d119 et seq.
25. Septic tanks shall be precast concrete tanks constructed of concrete conforming to ACI318-16-4.5.1 and 318-16-4.5.2. Certification shall be provided by the manufacturer and the certification displayed on the tank.
26. A Hoot Aerobic System; H-600A or approved equal meeting NSF Standard 40 and/or Standard 245 Certification
27. All manhole covers and inspection ports in the septic tank shall have water tight bolted or locked caps set flush with finish grade.
28. All interior concrete surfaces shall be sealed with two coatings of an approved inert coating to minimize corrosion. Coating shall be applied prior to delivery by the manufacturer.
29. Septic tanks shall be fabricated and installed in accordance with 7:9a-8.2.
30. A permanent marker shall be placed on grade above the septic tank upon completion of the installation.
31. Backfill and final grading shall be carried out in accordance with 7:9a-10.3(f).
32. Topsoil shall be lightly compacted by tamping or rolling to prevent settlement and shall be seeded and mulched or sodded immediately upon completion of final grading.
33. All trees with drip lines within 10 ft. of the disposal field shall be removed prior to construction.
34. There shall be no existing or proposed disposal systems within 50 ft. of the proposed disposal field.
35. No garbage disposal unit of any kind shall be connected to this disposal system.
36. Backwash from water softeners or other drainage other than sanitary sewerage shall not enter the disposal system.
37. All soil evaluation procedures relied upon as a basis for the design of the subject individual subsurface sewage disposal system were carried out by or under the direct supervision of a professional engineer and witnessed by the administrative authority.
38. Vegetative planting in the disposal area shall be limited to grass unless otherwise specified by the administrative authority.
39. An annual inspection of the system shall begin three (3) years after installation or pump out of the septic tank.
40. The disposal system contractor is responsible for confirmation that all materials utilized in the construction of the disposal system are in accordance with N.J.A.C. 7:9a
41. When placement of the disposal field is proposed in an area of disturbed ground as defined at 7:9a - 5.10, an acceptable state of compaction of the soil or fill material shall be verified by laboratory tests, and the design engineer shall certify a minimum compaction of 90 percent of the standard proctor density.
42. All regraded areas shall comply with 7:9a-10.3.
43. Storm sewers within 75 ft. of the disposal system shall be constructed with watertight joints.
44. There shall be no existing or proposed wells within 100 ft. of the proposed disposal field.
45. ALL SEPTIC AND DOSING TANKS, INCLUDING RISERS AND INSPECTION PORTS TO THE HIGHEST JOINTS, SHALL BE TESTED FOR WATER TIGHTNESS AFTER INSTALLATION USING HYDROSTATIC OR VACUUM TESTS IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN N.J.A.C. 7:9A8.2(m)
46. THIS PLAN IS FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT ONLY.

Frank J. Falcone New Jersey Professional Land Surveyor & Professional Planner

Kevin M. Brakel New Jersey Professional Engineer

PJE Princeton Junction Engineering, P.C.
Professional Engineers, Land Surveyors and Planners

P.O. Box 610 - 53 North Post Road
Princeton Junction, New Jersey 08550
Telephone: 609.799.1906 Facsimile: 609.799.1524 Email: JFPC@pjeprc.com

D. Geoffrey Brown
Frank J. Falcone
Ted W. Pivarnick
Martin D. Katz
Kevin M. Brakel

PER15 No.24327
PLS No.32112
PP No.3760
PLS No.35868
PLS No.36249
FE No.44154

Frank J. Falcone

Kevin M. Brakel

12/21/12

Date

12/21/12

Date

of Lot- 26, Block - 89 for

Christina L. Chervenak

Located in Mercer County • New Jersey

Date: 12/21/12

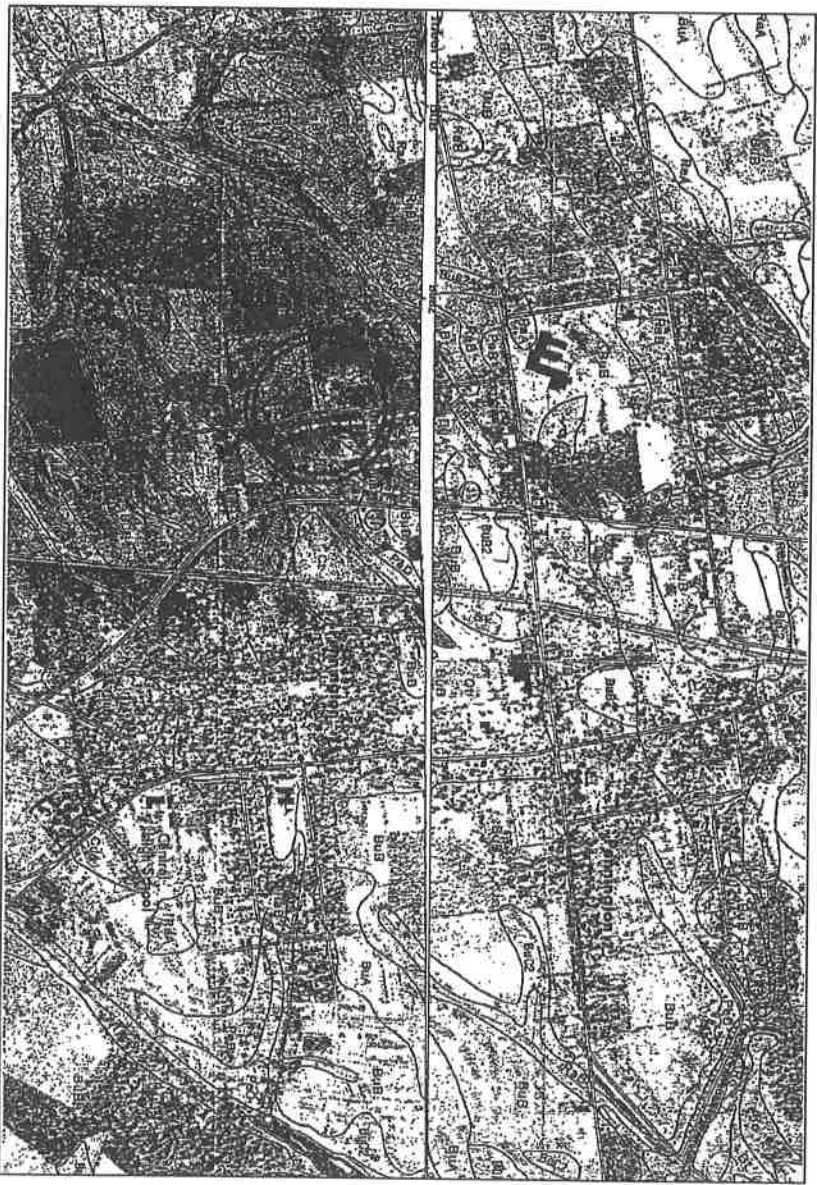
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Check: FJFKMB

Sheet 5

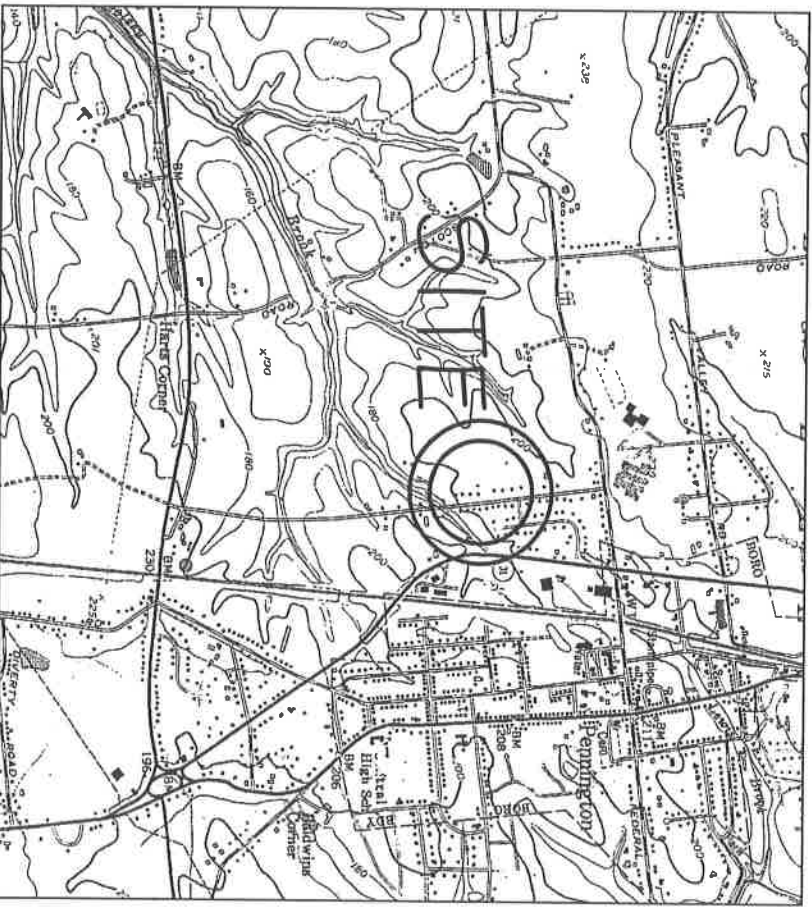
Job#: F121207
Draw: OOB-Notes
View: WINDOW



USDA SOIL SURVEY MAP

Scale 1"=200'

Note: Entire Site Consists of "Bucks Silt Loam" BucB



U.S.G.S. "PENNINGTON" QUADRANGLE MAP

Scale 1"=2000'

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Key Maps

of Lot-26, Block-89 for
Christina L. Chervenak

Hopewell Township • Mercer County • New Jersey

D. Geoffrey Brown
Frank J. Falcone
Ted W. Pivovarnick
Martin D. Katz
Kevin M. Brakel

FE#P15 No.24327
P15 No.32112
P15 No.35666
P15 No.36249
PE No.44194

Frank J. Falcone

12/21/12

Date

Date: 12/21/12
Scale: As Shown
Drawn: FJF

Check: FJF/KMB

Sheet 6

Kevin M. Brakel

12/21/12

Date



TOWNSHIP of HOPEWELL

MERCER COUNTY

DEPARTMENT OF HEALTH

Serving Hopewell Borough & Pennington Borough

201 Washington Crossing Pennington Road Titusville, New Jersey 08560-1410

Phone: 609.737.0120 Fax: 609-737-6836

Christina Chervenak c/o Grace Hollendonner
26 Dublin Rd
Pennington NJ 08534

DEED AMENDMENT REQUIRED

January 14, 2013

RE: Block 89 Lot 26

To Whom It May Concern:

Your application for an alteration to an onsite subsurface sewage disposal system has been approved with the following conditions:

SEWAGE DISPOSAL PERMITS ARE VALID FOR TWO YEARS FROM DATE OF ISSUE.

1. A copy of this letter must be forwarded to your construction contractor and sewage disposal installer prior to installation of said system.
2. The sewage disposal system must be located and staked prior to installation by a licensed surveyor or professional engineer to guarantee the proper alignment of the system in the area of the soil tests, and to insure it will conform to all site restrictions as represented on the attached design.
3. An acceptable grading plan has been included and must be constructed accordingly and can only be changed with township and design engineer approval.
4. The required elevation of the sewage disposal system should be verified by the licensed professional engineer or surveyor, the builder and the plumbing contractor as it relates to the foundation height, the point where the sewer line exits the dwelling and the height of the septic tank. If this is a gravity system and the minimum height of the sewer line is not maintained, an ejector system will be required after the septic tank.
5. An onsite conference is required with your installer and a representative from this office prior to installation of any part of this system. This should avoid any problem during the installation which can be costly to all parties concerned.
6. The design engineer must be notified at the beginning of the installation. Field measures must be made for the required as-built design, and grading plan certifications. The as-built must show soil test location, distances to the tank and D-box as measured from two fixed points, also, any changes caused by site conditions, construction changes and installation problems. If this is a raised system, the as-built grading plan must be certified by the engineer that it is as designed, showing all inverts and contour lines. The as-

built will provide a detailed location of the installed system so it can be located once it is covered.

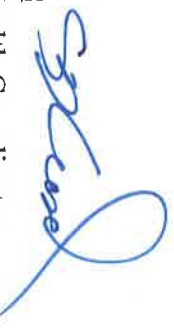
7. No excavating machinery shall be permitted in the excavation during construction. A track-hoe or back-hoe must be used to dig the excavation. Sand must be available at the start of construction to cover the bottom and to protect open fractures etc.
8. All trees within 10 feet of a conventional disposal system or within the area of the extended clay fill and sloped area of a raised disposal/mound system must be removed.
9. All phases of construction of the disposal system must be inspected by the Health Department. It is your responsibility (or your contractors) to notify the Health Department by no later than 9:00 a.m. on every day that construction is underway so inspections can be scheduled. Systems will be dug up if not inspected by this office!
10. A certificate of compliance will not be issued if the system is not completed and the grades certified. Raised systems must be stabilized. All systems must be seeded or sodded and have established vegetative growth.
11. All septic tanks must comply with new tank requirements and also be provided with locking manhole access lids to final grade as required by NJDEP 7: 9A.
12. All sand and clay fill must be stock piled on site and certified by a licensed laboratory or by the design engineer once in place.
13. Hopewell Township requires a 50% larger, two compartment septic tank whenever a sewer ejector is utilized in a dwelling.

14. DEED AMENDMENT REQUIRED for alternative systems

15. Copy of service contract to be provided to Health Department before final approval can be given.

Very truly yours,

George K. Kiesel
Environmental Health Coordinator



George Kiesel

From: Paul Pogorzelski [paulpogo@hopewelltwp.org]
Sent: Monday, January 14, 2013 11:17 AM
To: 'Frank Falcone'; gkiesel@hopewelltwp.org
Cc: 'Grace Allen Hollendonner'
Subject: RE: septic design grading review Blk 89 Lot 26

Approved

Paul E. Pogorzelski, P.E.
Hopewell Township Administrator/Engineer
201 Washington Crossing-Pennington Road
Titusville, NJ 08560
609-737-0605 ext 664
609-737-6839 (fax)

 Please consider the environment before printing this e-mail
"This message may contain confidential and/or proprietary information and is intended for the person/entity to whom it was originally addressed."

From: Frank Falcone [mailto:ffalcone@piepc.com]
Sent: Monday, January 14, 2013 10:41 AM
To: Paul Pogorzelski; gkiesel@hopewelltwp.org
Cc: Grace Allen Hollendonner
Subject: RE: septic design grading review Blk 89 Lot 26

Paul:

Attached is the amended grading plan. Basically, I removed the proposed contouring between the house and the septic system and provided a spot elevation to insure positive surface flow in that area.

Frank

From: Paul Pogorzelski [mailto:paulpogo@hopewelltwp.org]
Sent: 01/14/2013 10:28 AM
To: Frank Falcone; gkiesel@hopewelltwp.org
Subject: RE: septic design grading review Blk 89 Lot 26

Thx. Email me a pdf and I will approve

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To: Paul Pogorzelski; gkiesel@hopewelltwp.org
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Paul:

Yes, I'll make the adjustment.

Thanks,

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From: Paul Pogorzelski [<mailto:paulpogo@hopewelltwp.org>]
Sent: 01/14/2013 10:02 AM
To: Frank Falcone; gkiesel@hopewelltwp.org
Subject: RE: septic design grading review Blk 89 Lot 26

Then can we flatten out the contour a little to have less concentration? Thanks

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Might it be possible to take more runoff toward the street so as to avoid concentrated flows onto adjacent lot 20?

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Permit No. 2013005

Date: 1/14/2013

Hopewell Township Health Department

201 Washington Crossing – Pennington Road

Titusville, New Jersey 08560

Tel. (609) – 737-0120 Fax (609) – 737-6836

PERMIT

Applicant: Mr. & Mrs. Chervenak Iii

Block 89.00 , Lot 26.00

For: INDIVIDUAL SUBSURFACE SEWAGE DISPOSAL SYSTEM ALTERATION

Location: 26 Dublin Road

Fee: \$625.00

24 Hour Inspection Notification Required

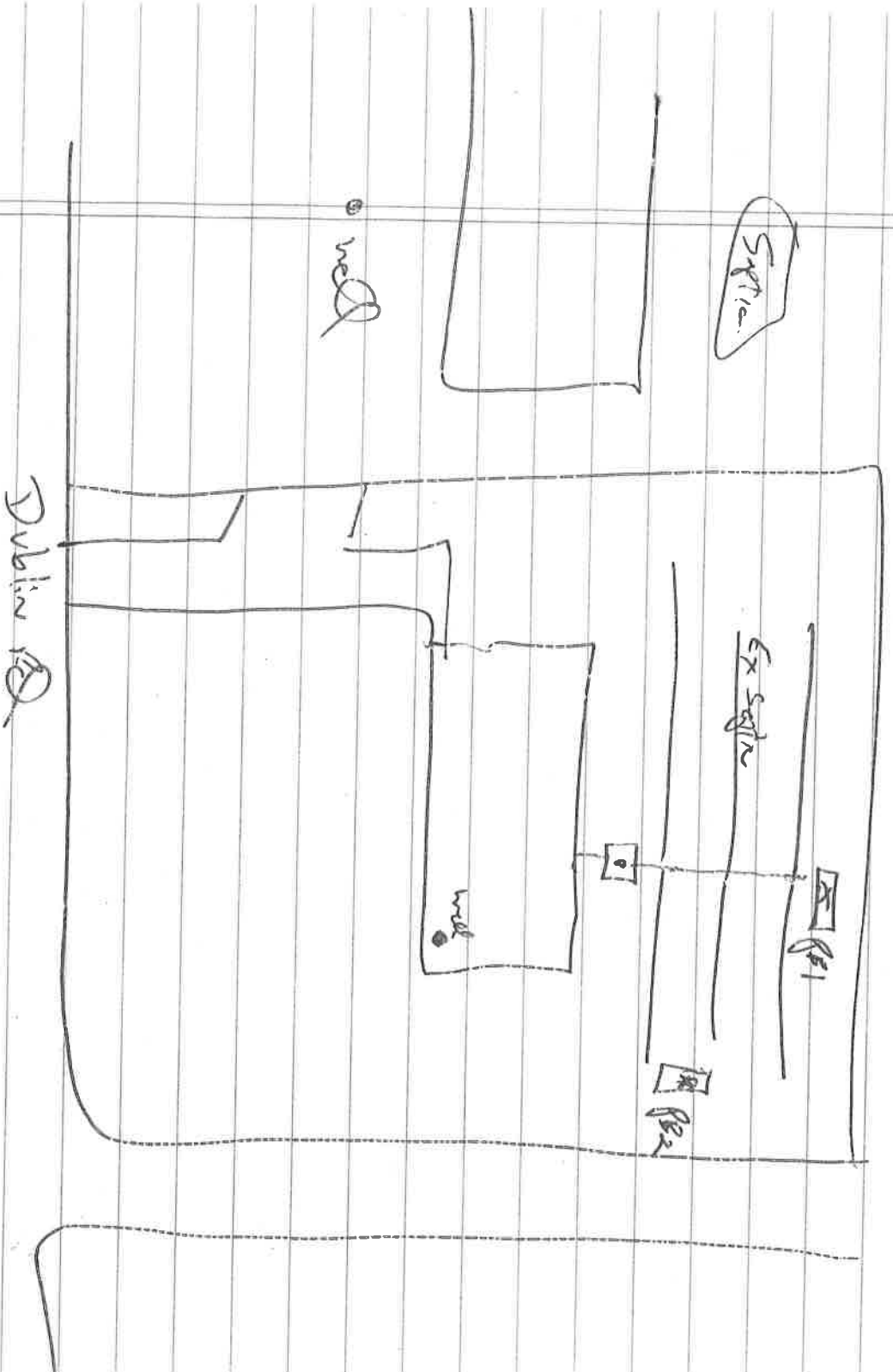
This permit is NOT transferrable.

Authorized by:


Hopewell Township Health Department

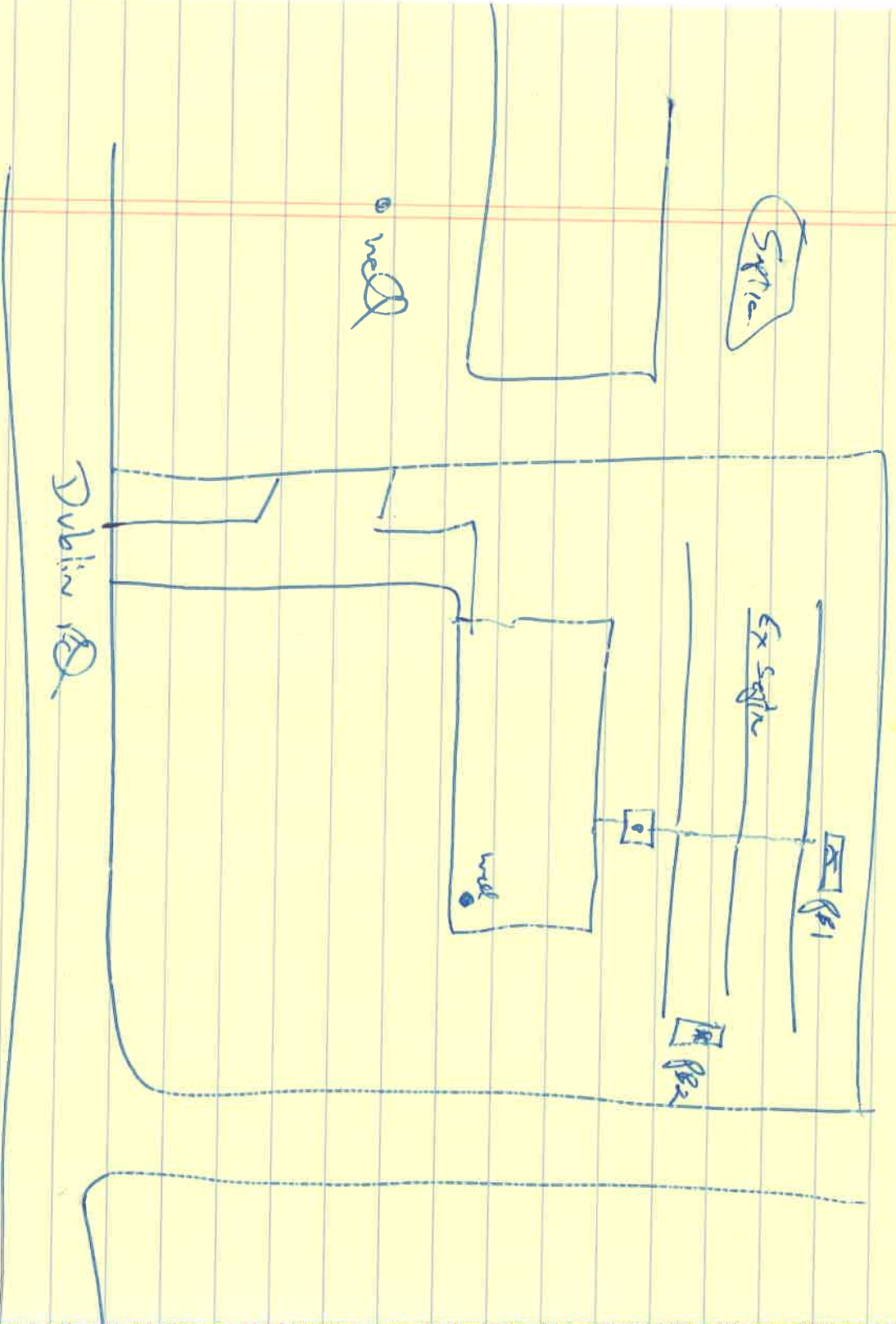
Permit Expires 2 years after date of issue

Dublin Side Rd
~~PS~~ - Falcone



Q3#2 TP=108"
Surge 60" - Fast
Mottles 48" Few, faint
It has stain 50 1/2"

QC ~~Planning~~ Side ~~RD~~
 P5C - Folcane



~~Q342~~ TP = 108"

Surge 60" - Fast
 Mottles 48" few, faint
 24 hrs stain 50 1/2"

3/13/87

John Racine
Twp Health Officer

RECEIVED
MAR 16 1987
Twp Health Officer

As per our conversation today
I am enclosing a copy of the "1/9/83
report showing a level of 6.1 McG/L
trichloroethylene in a sample from our well.

I hope you can schedule
a test on our well soon. The high
level of contaminants in the well not
to far distant have me concerned.

We ~~are~~ are concerned with 4 different
but similar compounds:

Trichloro ethylene
Tri chlor ethane
Tetra chlor ethylene
Tetra chlor ethane

I assume these tests are looking for all four
since it is my understanding that the
health effect are a function of the

CVI-R