



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 www.hopewelltp.org

APPLICATION FOR LETTERS OF REVIEW

Block 99.03 Lot 3 Street Address 11 River Knoll Dr. Titusville
Check One: ☒ Sale of Property ☐ Rental of Property ☐ Change in Use Settlement Date 3-30-16

Property Owner Information:

Name Regine Scheiner Phone: 908 285-0394
Address: 11 River Knoll Dr. Fax: _____
City Titusville State NJ Zip 08560 Email: riverknollsch@verizon.net
Attorney Kevin Grubb Phone 908 238-9480
Fax 908 238 9401 E-mail grubblaw@earthlink.net

Purchaser/Tenant Information

Name Matthew & Christie Mathia Phone: _____
Address: 2151 Ash Ct. Fax: _____
City Mon Jct State NJ Zip 08852 Email: _____
Attorney Robert Rottkamp Phone _____
Fax 609 530-0795 Email rrottkamp@verizon.net

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

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		Final Approval Granted	
Comments: <u>Final Fee 1/15/16</u> <u>USAL - 2/16/2016 - Rec-T.</u> <u>Revised</u> <u>Post-Treat. 3/22/2016 - BWT-OK.</u>			

Township of Hopewell

MAR 23 2016

Health Department

CERTIFICATE OF ANALYSIS

NJDEP Certified Lab 11005

Project Name: 11 River Knoll Dr

Workorder:

N033775

James Scheirer

Potable Analysis

205 Fern Road

Southampton, PA 18966

Project Name and Number:

11 River Knoll Dr

March 22, 2016

Dear James Scheirer,

This report relates only to the sample(s) as received by the laboratory. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Caution is advised for the utilization of preliminary data included in reports labeled as "Preliminary Report" and should not be used for regulatory purposes. A laboratory signature is provided on final reports only.

If you have any questions in reference to this laboratory report, please contact your NJAL project coordinator or laboratory manager listed at the bottom of this report at (609) 737-3477.

Note: This coverage is included as part of the Analytical Report and must be retained as a permanent record thereof.

New Jersey Analytical Laboratories

Susan McGrady

Laboratory Manager

Susan McGrady

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Susan McGrady, Quality Assurance Officer

James Scheirer
205 Fern Road
Southampton, PA 18966
11 River Knoll Drive
Lot 3, Block 99.03
Hopewell Township
Mercer County, NJ

NJAL received the samples associated with this batch in compliance with NJDEP guidelines. The requested analysis methods and results are detailed in the following data summary report. Any exception to method procedures are listed in the comments section below. Further information and QA/QC details will be provided in the NJDEP reduced deliverables package if required.

Microbiological Parameters:

This sample meets the NJDEP MCL criteria for Total Coliform and E. Coli.

Microbiological Comments:

None-SM

Lab ID: N033775-01**Date Collected:** 03/16/16 08:40**Matrix:** Drinking Water**Sample ID:** Bathroom Tap**Date Received:** 03/16/16 15:30**Microbiological Parameters**

<u>Analyte</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>MDL</u>	<u>RDL</u>	<u>Method</u>	<u>Analyzed</u>	<u>Prepared</u>	<u>MCL</u>
Total Coliform	Absence		CFU/100 ml		1	SM 9223 B	03/16/16 16:22	03/16/16	1
E. Coli	Absence		CFU/100 ml		1	SM 9223B	03/16/16 16:22	03/16/16	1

New Jersey Analytical Laboratories

Susan McGrady

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Susan McGrady, Quality Assurance Officer



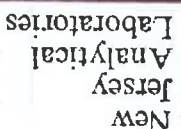
Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the Reporting Detection Limit (RDL)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
<	Less than reporting limit
≤	Less than or equal to reporting limit
>	Greater than reporting limit
≥	Greater than or equal to reporting limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
MCL/AL	Maximum Contaminant Level/Action Level
mg/kg wet	Results reported as wet weight
TTLc	Total Threshold Limit Concentration
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic: Leachate Procedure

New Jersey Analytical Laboratories

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Susan McGrady, Quality Assurance Officer



RE-TEST

4 BD Rust

33775

Client Information		Name:	James Scherer
		Street:	205 Fern Rd
		City, State:	Southampton, PA
		Zip:	18436
Agent/Alternate Contact:			
Phone:		815-440-2674	
Fax:			

Sample Number	Matrix	Volume Bottles	Volume Bottles	Preservative	Analysts
	Aqueous	2	40ml	HCl	Volatile Organic Compounds (EPA Method 824.2)
	Aqueous	1	120ml	Unpres	Nitrates
	Aqueous	1	120ml	Stable	Total Coliform and E. Coli
	Aqueous	1	250ml	HNO ₃	Iron, Manganese, Arsenic, Lead, Other Metals
	Aqueous	1	250 ml	HNO ₃	Gross Alpha
	Aqueous				Other Parameters (specify)

New Jersey Analytical Laboratories, LLC 380 Scotch Road, Suite 1B, Building 2 Ewing, New Jersey 08628 Tel: 609-737-3477 Fax: 609-737-3052	<u>Method of Shipment</u>	All bottles received for Laboratory (NJA), by: (Signature) <i>Claudia MBI</i> 3/10/16 2/5:30
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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. 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: Regina Scheier
Mailing Address: 11 River Knoll Drive
Titusville, NJ 08560

Date Test Requested: 2/4/2016

Property Information

Property Address: 11 River Knoll Drive
Muni Code (4 digit): 1106 County: Mercer Municipality: Hopewell Township
GPS Location-State Plane coordinates (feet): X: 393746 Y: 528402 Lot: 3 Block: 99.03
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: Ryan Bilgrav
Authorized Representative/Certified Laboratory Employee Lab Certification ID #: 11005
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: Bathroom Tap-Bypass
b.) Type of Treatment Device(s) Installed (if known): Softener

(+) 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# N032797 ~~New Jersey~~ Private Well Water Test Reporting Form
New Jersey Analytical

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:

ADDITIONAL SAMPLE INFORMATION:			
Coliform Analyses:			
Date/Time Sample Collected: 02/04/16, 1455	Date/Time Sample Analyzed: 02/04/16, 1630	Sample ID Number: N032797	
Date/Time Sample Collected	Date/Time Sample Analyzed:	Sample ID Number:	
Volatile Organics:			
Date/Time Sample Collected: 02/04/16, 1455	Date/Time Sample Analyzed: 02/10/16, 1621	Sample ID Number: N032797	
Inorganics:			
Date/Time Sample Collected: 02/04/16, 1455	Date/Time Sample Analyzed: 02/04/16, 2020	Sample ID Number: N032797	
Date/Time Sample Collected	Date/Time Sample Analyzed:	Sample ID Number:	
pH Analysis:			
Date/Time Sample Collected: 02/04/16, 1450	Date/Time Sample Analyzed: 02/04/16, 1454	Sample ID Number: N032797	
Gross Alpha Analyses:			
Date/Time Sample Collected: 02/04/16, 1455	Date/Time Sample Analyzed: 02/06/16, 0400	Sample ID Number: N032797	
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



Date

2/16/16

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 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/stp 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/dca/hmfa

DOUGLAS E. FINE, P.E.

(908) 399-4150

Septic System Expert

Conventional & Advanced Treatment Systems
Soil Permeability Testing & System Designs
Aerobics, Peats, Drip Dispersal
Evaluations & Troubleshooting
Expert Testimony

www.fine-engineering.com

SEPTIC SYSTEM EVALUATION

FOR

Christie Mattia



11 River Knoll Dr.

Titusville, NJ

Hopewell Twp. – Block 99.03, Lot 3

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www.fine-engineering.com

SEPTIC SYSTEM INSPECTION REPORT

CLIENT INFO

Client Name:

CHRISTIE MATTIA

Different from owner? ☒ yes ☐ no

Client Address:

2151 ASH CT.

MON. JCT, NJ 08852

Contact Method:

home tel. _____

work tel. _____

e-mail _____

Fax _____

Inspector Name: DOUG FINE

Date: 1/14/16

Address (including municipality):

11 River Knoll

Titusville

Municipality Hopewell Twp.

Block: 99.03 Lot: 3

Was GPS used? ☐ yes ☒ no

Preliminary Information:

Weather: 32 - F

Last precipitation: >3DAYS

Age of system 45 years

Type of dwelling

☒ Residential Number of Bedrooms: 4

☐ Non residential Describe: _____

How many systems are being inspected? 1

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):

File review performed with administrative Authority?

☒ yes ☐ no If no, explain why below.

Yes ☐ No ☐

Is there a site plan or septic map available?

Is the dwelling currently being occupied?

If so, how many occupants? 2+

If no, date last occupied? _____

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?

Is the dwelling free of any historical sewage back

ups into the structure?

Does all sewage enter the septic system and no

type of sewage bypass exists?

Septic Tank Pumping:

Is the septic tank pumped regularly?

Frequency:

Date of last pumping: UNKNOWN

Comments: NO GARBAGE DISPOSAL FOUND. A WATER SOFTENER DOES BACKWASH INTO PLUMBING.

Treatment Tank:

Type of system being inspected?

- ☒ Septic tank ☐ A cesspool is not a system
☐ Gray water ☐ Multi-compartment: # _____
Name the material of the system?
☐ Concrete ☐ Block
☐ Steel ☐ Other _____

Approximate Treatment Tank Volume: 1000 gal.

Evaluate the conditions of tank below:

	Satisfactory	Unsatisfactory	N/A
Top and Lids	☒	☐	☐
Inlet baffle	☒	☐	☐
Outlet baffle	☒	☐	☐
Cracks or Leaks	☒	☐	☐
Sewage Flow from structure	☒	☐	☐

Comments:

CENTER MANHOLE OVER A 12" OPENING. SEE PHOTO.Yes No

- Main tank lid opened for inspection? ☒ ☐
Liquid level below the tank's inlet invert? ☒ ☐
Liquid level at the tank's outlet invert? ☒ ☐
Treatment tank pumped for this inspection? ☒ ☐
Are all portions of the tank(s) clear of structures like a deck or a driveway? ☒ ☐
Is the area clear of evidence that sewage has surfaced above the treatment tank? ☒ ☐
Does water flow unimpeded from the Treatment Tank? ☒ ☐
Is an effluent filter a part of the system? ☐ ☒
If yes, does it appear properly maintained? ☐ ☐
Are there any other types of accessory units present? ☐ ☒
Depth to top of tank: 14 inches
Depth to top of tank access: 0 inches

Absorption Area:

Name the type of the absorption system?

- ☒ disposal bed ☒ gravity flow ☐ gravity dosing ☐ pressure dosing ☐ mounded
☐ disposal trench(es) ☐ Other _____
☐ seepage pit ☐ cesspool - NOT A SEPTIC SYSTEM

laterals 5☒ gravity flow ☐ gravity dosing☐ pressure dosing ☐ mounded

Was the absorption system located?

- ☒ yes ☐ no
Are inspection ports present? ☐ yes* ☒ no

If no, explanation below.

If yes, how many? _____

*All levels observed must be included in report:

Was a separate probe dug in the absorption area to confirm the observations in the inspection ports?

☐ yes ☐ no ☒ N/A

Is the area of the absorption system free of sewage odors?

☒ yes ☐ no ☐ N/A

Does sewage flow from the treatment tank to the absorption system without flowing back?

☒ yes ☐ no ☐ N/A

Is the area above or near any of the system components free from visible signs of effluent or sewage?

☐ yes ☒ noEVIDENCE OF SOME
SLUDGE OVER TANK
LID (IN RISER)
SLUDGE IN D-BOX

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 ☐ N/A

Is there a distribution box?

☒ yes ☐ no **PLASTIC D-BOX**Depth of soil cover over d-box lid: 16" +/-

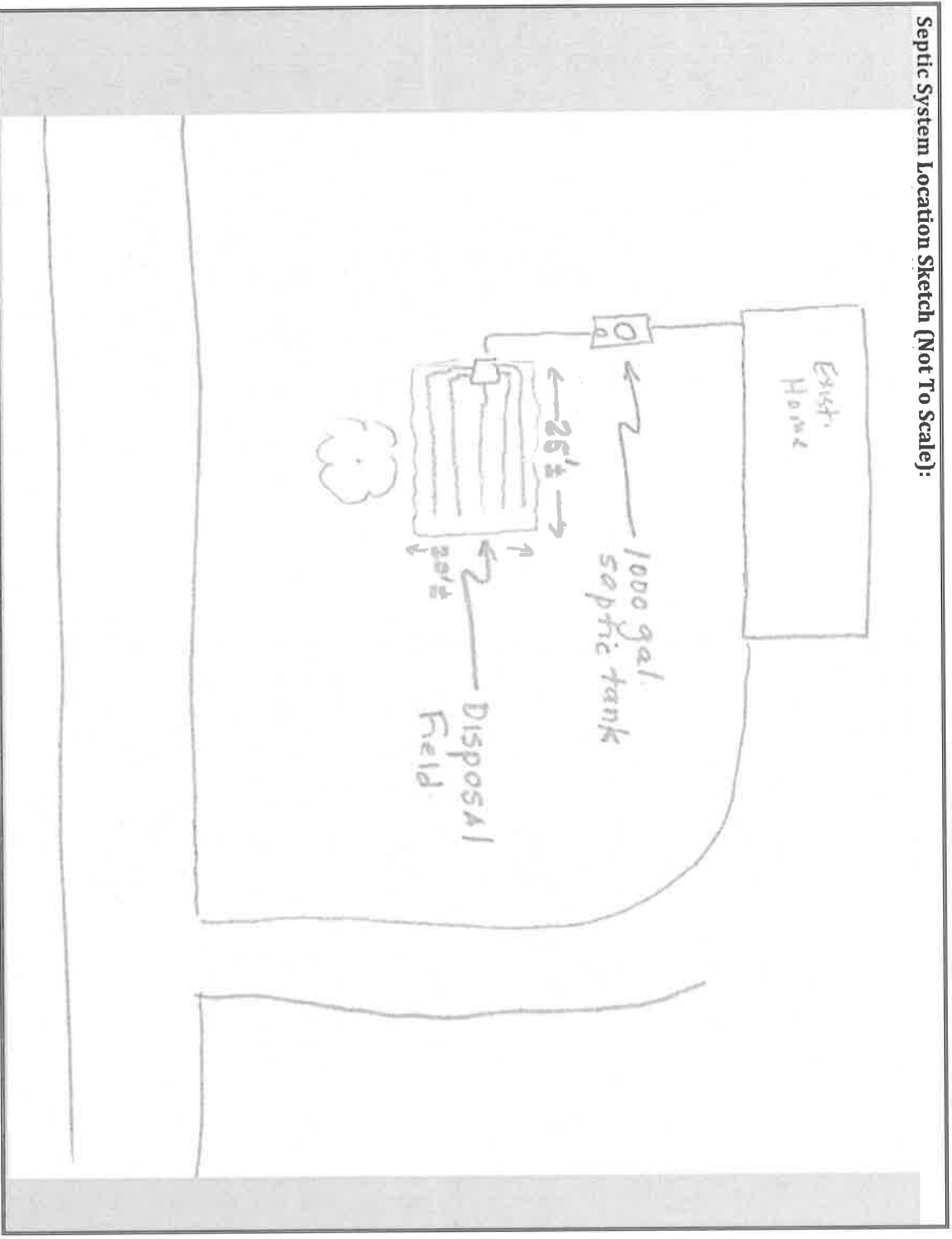
Is the distribution box in satisfactory condition?

Explanation of condition: ☐ cracked lid ☐ cracked /deteriorated walls ☐ leaking ☐ not level

Comments:

NEWER PLASTIC D-BOX, AND PVC LINES. THE PVC LINES EXIT THE D-BOX AND ATTACHED INTO THE OLD ORANGEBURG LATERALS. SOME SLUDGE IN THE BOX AND IN THE LATERAL LINES. HOWEVER THE APPROX. 20' x 25' BED CONSISTED OF CLEAN STONE AS WAS DRY. I WOULD RECOMMEND THAT THE LATERAL LINES BE JET-WASHED (PRESSURE CLEANED) TO REMOVE THE BUILD-UP OF SLUDGE.

Septic System Location Sketch (Not To Scale):



Summary:	Satisfactory	with Concerns	Unsatisfactory	Requires Additional Investigation
Condition of the treatment tank(s)	☒			N/A
Condition of the dosing system				☒
Condition of the connecting line and distribution box	☒			
Condition of the absorption area(s)	☒			
Condition of the effluent filter				☒

Summary Comments:

Visual Observations:

The attached site sketch presents the location of the primary septic system components. The septic system is comprised of a 1,000 gallon concrete septic tank and a disposal filed consisting of 5 laterals in a gravel bed. An onsite well provides the property with potable water. The water supply is currently fitted with a water treatment system that does backwash into the septic system. The kitchen sink is not equipped with a garbage disposal system at this time. The building is furnished with conventional plumbing fixtures that discharge into a common building sewer that exits the foundation wall at the front of the dwelling.

The septic tank manhole cover was removed to inspect the integrity of the tank. The main lid of the tank was found approximately 14" below the ground surface beneath the lid inside the riser. Minor evidence of past sludge surfacing above the top may have been caused by a previous clog in cast iron piping. The cast iron piping has been replaced with newer PVC. The liquid level within the tank was found to be at the lip of the outlet pipe. This is considered the correct operating level.

A licensed hauler then pumped the contents of the tank. No effluent was observed to run back into the tank from the outlet opening. We found both the inlet and outlet baffles on the tank to be intact and functional.

We proceeded to insert a camera snake into the outlet of the septic tank. Using a hand held receiver, we traced the transmitter to the distribution box at the location shown on the attached sketch. The distribution box serves to distribute effluent evenly to all laterals within the disposal field. The lid of the distribution box was excavated and we found sludge surfacing above the distribution box or within the soil surrounding the box. We removed the distribution box lid and found the liquid level within the distribution box to be at the lip of the outlet pipes. This is considered the correct operating level. Some sludge was noted within the box.

Next, the camera was run out the outlets of the distribution box and the interiors of the laterals were observed on the monitor. We noted an accumulation of sludge within the lateral pipes. I recommend that this sludge be cleaned out, utilizing a pressure jet-washing of the lines. The field was probed to assess any saturation. We found the field to be clean and dry. Next a small excavation was made adjacent to the field to confirm the probing.

Comparison with Code Requirements:

NJAC 7:9A - Standards for Individual Subsurface Sewage Disposal Systems, defines the criteria for recognizing noncompliant systems at NJAC 7:9A-3.4(a-b). The six (6) criteria include:

1. Contamination of nearby wells or surface water bodies by sewage or effluent as indicated by the presence of fecal bacteria where the ratio of fecal coliform to fecal streptococci is 4 or greater;
2. Ponding or breakout of sewage or effluent onto the surface of the ground;
3. Seepage of sewage or effluent into portions of buildings below ground; or
4. Back-up of sewage into the building served which is not caused by a physical blockage of the internal plumbing.
5. Any leakage from or into septic tanks, connecting pipes, distribution boxes and other components that are not designed to discharge sanitary sewage or effluent; or

6. Any discharge of sanitary sewage without a zone of treatment.

Water sampling is normally performed as part of a home inspection and is not typically included with a septic inspection. Should the laboratory analysis of the water sample indicate a presence of total coliform, a second water sample should be collected and analyzed to determine if the septic system is malfunctioning as defined in item one (1) above.

Because none of the remaining criteria were met at the time of our inspection, we are able to conclude that the septic system is compliant/not malfunctioning under the current usage and operating conditions.

Discussion & Conclusions:

I always recommend considering the installation of an outlet baffle filter to help prevent the future overflow of solids from leaving the septic tank and entering the disposal laterals. An associated service program would also help to prolong the remaining life of your system. All new tank installations since 2012 require effluent filters. They are a relatively inexpensive addition to the system that can add longevity.

Future Advice: We recommend that you have the contents of the septic tank pumped every 2 years. You should avoid placing non-biodegradable materials such as feminine hygiene products, baby wipes, cigarette butts, etc. into the system. These items do not breakdown and increase the rate of solids buildup within the tank. This results in the need to pump the septic tank more frequently to prevent solids carryover into the disposal field. We do not recommend the use of a garbage disposal in the kitchen sink for the same reason. Leaking plumbing fixtures can add a significant unnecessary hydraulic load on the septic system. We recommend that leaking plumbing fixtures be repaired immediately to avoid overloading the septic system.

PLEASE DO NOT HESITATE TO CONTACT ME IF YOU HAVE ANY QUESTIONS.

Health Department Reporting:

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

- ☐ 1. Contamination of nearby wells, or surface water bodies (eg: streams or rivers), by sewage or septic effluent
- ☐ 2. Ponding or breakout of sewage or effluent onto the surface of the ground
- ☐ 3. Seepage of sewage or effluent into portions of buildings below ground
- ☐ 4. Backup of sewage into the building served which is not caused by a physical blockage of the internal plumbing
- ☐ 5. Any leakage from or into septic tanks, connecting pipes, distribution boxes and other components that are not designed to discharge sanitary sewage or effluent; or
- ☐ 6. Any discharge of sanitary sewage without a zone of treatment.

Pursuant to N.J.A.C. 7:9A-12.6(d) 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. Regardless of observations made, a copy of this report should be provided to the local administrative authority within 10 days of the issuance of this report.

If encountered, describe all observed noncompliant conditions encountered during this inspection:
NONE

Disclaimer:

Douglas E. Fine performs inspections in accordance with the "Technical Guidance 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 July 2003.

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.

- an evaluation of each component examined leading to a conclusion about the system's condition.

A NJDEP Inspection is not:

- 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, Douglas E. Fine PE submits this sub-surface sewage disposal system inspection report. The inspection is based on the current condition of the onsite sewage disposal system. Douglas E. Fine PE makes no representation that the system was designed, installed, or meets NJAC 7:9A-1.1 et. seq. Douglas E. Fine PE 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 Douglas E. Fine PE to supervise or monitor the use and maintenance of the system, this report shall not be construed as a warranty by Douglas E. Fine PE that the system will function properly for anyone. Douglas E. Fine PE disclaims any warranty, either expressed or implied, arising from this inspection of the septic system.

Signature: _____

Printed Name: _____

Douglas E. Fine P.E.

NJ Licensed Professional Engineer # 24GE04311900

Date: 1/15/16

Appendix of Photos



Looking into the manhole. Care should be given to the pumping to make sure all solids are removed, as this opening is only 12" in lieu of the newer tanks having a 24" opening.



Plastic Distribution Box.



Dry gravel in the disposal area.

DOUGLAS E. FINE, P.E.

(908) 399-4150

Septic System Expert

Conventional & Advanced Treatment Systems
Soil Permeability Testing & System Designs
Aerobics, Peats, Drip Dispersal
Evaluations & Troubleshooting
Expert Testimony

www.fine-engineering.com

SEPTIC SYSTEM INSPECTION REPORT

CLIENT INFO

Client Name: CHRISTIE MATTIA
Different from owner? ☒ yes ☐ no
Client Address: 2151 ASH CT.
MON. JCT, NJ 08852
Contact Method:
home tel. _____
work tel. _____
e-mail _____
Fax _____

INSPECTION LOCATION

Inspector Name: DOUG FINE
Date: 1/14/16
Address (including municipality):
11 River Knoll
Titusville
Municipality Hopewell Twp.
Block: 99.03 **Lot:** 3
Was GPS used? ☐ yes ☒ no

Preliminary Information:

Weather: 32-F
Last precipitation: >3DAYS
Age of system 45 years
Type of dwelling
☒ Residential Number of Bedrooms: 4
☐ Non residential Describe: _____
How many systems are being inspected? 1
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):

File review performed with administrative Authority?
☒ yes ☐ no If no, explain why below.

	Yes	No
Is there a site plan or septic map available?	☒	☐
Is the dwelling currently being occupied?	☒	☐
If so, how many occupants? 2+		
If no, date last occupied? _____		
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?	☒	☐
Is the dwelling free of any historical sewage back ups Into the structure?	☒	☐
Does all sewage enter the septic system and no type of sewage bypass exists?	☒	☐
Septic Tank Pumping:		
Is the septic tank pumped regularly?	☐	☐
Frequency: UNKNOWN		
Date of last pumping: UNKNOWN		

Comments: NO GARBAGE DISPOSAL FOUND. A WATER SOFTENER DOES BACKWASH INTO PLUMBING.

Treatment Tank:

Type of system being inspected?

- ☒ Septic tank ☐ A cesspool is not a system
☐ Gray water ☐ Multi-compartment: # _____
Name the material of the system?
☐ Concrete ☐ Block
☐ Steel ☐ Other _____

Approximate Treatment Tank Volume: 1000 gal.

Evaluate the conditions of tank below:

	Satisfactory	Unsatisfactory	N/A
Top and Lids	☒	☐	☐
Inlet baffle	☒	☐	☐
Outlet baffle	☒	☐	☐
Cracks or Leaks	☒	☐	☐
Sewage Flow from structure	☒	☐	☐

Comments:

CENTER MANHOLE OVER A 12" OPENING. SEE PHOTO.

Main tank lid opened for inspection?

Liquid level below the tank's inlet invert?

Liquid level at the tank's outlet invert?

Treatment tank pumped for this inspection?

Are all portions of the tank(s) clear of structures like a deck or a driveway?

Is the area clear of evidence that sewage has surfaced above the treatment tank?

Does water flow unimpeded from the Treatment Tank?

Is an effluent filter a part of the system?

If yes, does it appear properly maintained?

Are there any other types of accessory units present?

Depth to top of tank: 14 inchesDepth to top of tank access: 0 inchesYesNo☒☐☒☐☒☐☒☐☒☐☒☐☒☐☒☐**Absorption Area:**

Name the type of the absorption system? _____

laterals 5☒ disposal bed☒ gravity flow☐ gravity dosing☐ pressure dosing☐ mounded☐ disposal trench(es)☐ seepage pit☐ Other _____☐ cesspool - NOT A SEPTIC SYSTEM

Was the absorption system located?

☒ yes☐ no

If no, explanation below.

Are inspection ports present?

☐ yes*☒ no

If yes, how many? _____

*All levels observed must be included in report:

Was a separate probe dug in the absorption area to confirm the observations in the inspection ports?

☐ yes☐ no☒ N/A

Is the area of the absorption system free of sewage odors?

☒ yes☐ no☐ N/A

Does sewage flow from the treatment tank to the absorption system without flowing back?

☒ yes☐ no☐ N/A

Is the area above or near any of the system components free from visible signs of effluent or sewage?

☐ yes☒ noEVIDENCE OF SOME
SLUDGE OVER TANK
LID (IN RISER)

Are the areas at or near the inlet invert of any absorption area component free of visible signs of sewage or effluent?

☐ yes☒ no

SLUDGE IN D-BOX

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☐ N/A

Is there a distribution box?

☒ yes☐ no

PLASTIC D-BOX

Depth of soil cover over d-box lid: 16" +/-

Is the distribution box in satisfactory condition?

☒ yes☐ no☐ N/A

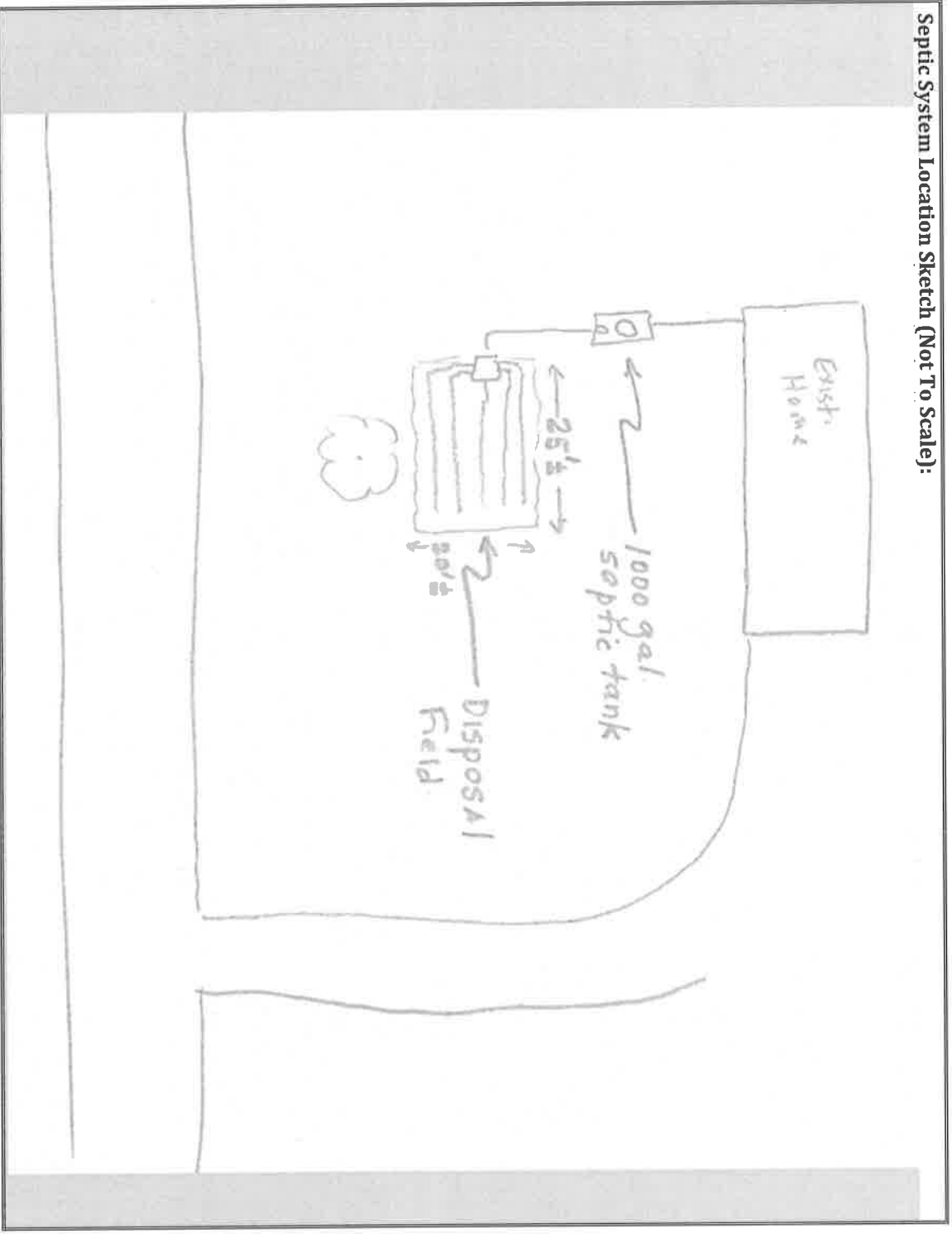
Explanation of condition:

☐ cracked lid☐ cracked /deteriorated walls☐ leaking☐ not level

Comments:

NEWER PLASTIC D-BOX, AND PVC LINES. THE PVC LINES EXIT THE D-BOX AND ATTACHED INTO THE OLD ORANGEBURG LATERALS. SOME SLUDGE IN THE BOX AND IN THE LATERAL LINES. HOWEVER THE APPROX. 20' x 25' BED CONSISTED OF CLEAN STONE AS WAS DRY. I WOULD RECOMMEND THAT THE LATERAL LINES BE JET-WASHED (PRESSURE CLEANED) TO REMOVE THE BUILD-UP OF SLUDGE.

Septic System Location Sketch (Not To Scale):



Summary:	Satisfactory with Concerns		Requires Additional Investigation	N/A
Condition of the treatment tank(s)	☒			
Condition of the dosing system	☒			☒
Condition of the connecting line and distribution box	☒			
Condition of the absorption area(s)	☒			
Condition of the effluent filter				☒

Summary Comments:

Visual Observations:

The attached site sketch presents the location of the primary septic system components. The septic system is comprised of a 1,000 gallon concrete septic tank and a disposal field consisting of 5 laterals in a gravel bed. An onsite well provides the property with potable water. The water supply is currently fitted with a water treatment system that does backwash into the septic system. The kitchen sink is not equipped with a garbage disposal system at this time. The building is furnished with conventional plumbing fixtures that discharge into a common building sewer that exits the foundation wall at the front of the dwelling.

The septic tank manhole cover was removed to inspect the integrity of the tank. The main lid of the tank was found approximately 14" below the ground surface beneath the lid inside the riser. Minor evidence of past sludge surfacing above the top may have been caused by a previous clog in cast iron piping. The cast iron piping has been replaced with newer PVC. The liquid level within the tank was found to be at the lip of the outlet pipe. This is considered the correct operating level.

A licensed hauler then pumped the contents of the tank. No effluent was observed to run back into the tank from the outlet opening. We found both the inlet and outlet baffles on the tank to be intact and functional.

We proceeded to insert a camera snake into the outlet of the septic tank. Using a hand held receiver, we traced the transmitter to the distribution box at the location shown on the attached sketch. The distribution box serves to distribute effluent evenly to all laterals within the disposal field. The lid of the distribution box was excavated and we found sludge surfacing above the distribution box or within the soil surrounding the box. We removed the distribution box lid and found the liquid level within the distribution box to be at the lip of the outlet pipes. This is considered the correct operating level. Some sludge was noted within the box.

Next, the camera was run out the outlets of the distribution box and the interiors of the laterals were observed on the monitor. We noted an accumulation of sludge within the lateral pipes. I recommend that this sludge be cleaned out, utilizing a pressure jet-washing of the lines. The field was probed to assess any saturation. We found the field to be clean and dry. Next a small excavation was made adjacent to the field to confirm the probing.

Comparison with Code Requirements:

NJAC 7:9A - Standards for Individual Subsurface Sewage Disposal Systems, defines the criteria for recognizing noncompliant systems at NJAC 7:9A-3.4(a-b). The six (6) criteria include:

1. Contamination of nearby wells or surface water bodies by sewage or effluent as indicated by the presence of fecal bacteria where the ratio of fecal coliform to fecal streptococci is 4 or greater;
2. Ponding or breakout of sewage or effluent onto the surface of the ground;
3. Seepage of sewage or effluent into portions of buildings below ground; or
4. Back-up of sewage into the building served which is not caused by a physical blockage of the internal plumbing.
5. Any leakage from or into septic tanks, connecting pipes, distribution boxes and other components that are not designed to discharge sanitary sewage or effluent; or

6. Any discharge of sanitary sewage without a zone of treatment.

Water sampling is normally performed as part of a home inspection and is not typically included with a septic inspection. Should the laboratory analysis of the water sample indicate a presence of total coliform, a second water sample should be collected and analyzed to determine if the septic system is malfunctioning as defined in item one (1) above.

Because none of the remaining criteria were met at the time of our inspection, we are able to conclude that the septic system is compliant/not malfunctioning under the current usage and operating conditions.

Discussion & Conclusions:

I always recommend considering the installation of an outlet baffle filter to help prevent the future overflow of solids from leaving the septic tank and entering the disposal laterals. An associated service program would also help to prolong the remaining life of your system. All new tank installations since 2012 require effluent filters. They are a relatively inexpensive addition to the system that can add longevity.

Future Advice: We recommend that you have the contents of the septic tank pumped every 2 years. You should avoid placing non-biodegradable materials such as feminine hygiene products, baby wipes, cigarette butts, etc. into the system. These items do not breakdown and increase the rate of solids buildup within the tank. This results in the need to pump the septic tank more frequently to prevent solids carryover into the disposal field. We do not recommend the use of a garbage disposal in the kitchen sink for the same reason. Leaking plumbing fixtures can add a significant unnecessary hydraulic load on the septic system. We recommend that leaking plumbing fixtures be repaired immediately to avoid overloading the septic system.

PLEASE DO NOT HESITATE TO CONTACT ME IF YOU HAVE ANY QUESTIONS.

Health Department Reporting:

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

- ☐ 1. Contamination of nearby wells, or surface water bodies (eg: streams or rivers), by sewage or septic effluent
- ☐ 2. Ponding or breakout of sewage or effluent onto the surface of the ground
- ☐ 3. Seepage of sewage or effluent into portions of buildings below ground
- ☐ 4. Backup of sewage into the building served which is not caused by a physical blockage of the internal plumbing
- ☐ 5. Any leakage from or into septic tanks, connecting pipes, distribution boxes and other components that are not designed to discharge sanitary sewage or effluent; or
- ☐ 6. Any discharge of sanitary sewage without a zone of treatment.

Pursuant to N.J.A.C. 7:9A-12.6(d) 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. Regardless of observations made, a copy of this report should be provided to the local administrative authority within 10 days of the issuance of this report.

If encountered, describe all observed noncompliant conditions encountered during this inspection:
NONE

Disclaimer:

Douglas E. Fine PE performs inspections in accordance with the "Technical Guidance 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 July 2003.

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.
- an evaluation of each component examined leading to a conclusion about the system's condition.

A NJDEP Inspection is not:

- 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, Douglas E. Fine PE submits this sub-surface sewage disposal system inspection report. The inspection is based on the current condition of the onsite sewage disposal system. Douglas E. Fine PE makes no representation that the system was designed, installed, or meets NJAC 7:9A-1.1 et. seq. Douglas E. Fine PE 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 Douglas E. Fine PE to supervise or monitor the use and maintenance of the system, this report shall not be construed as a warranty by Douglas E. Fine PE that the system will function properly for anyone. Douglas E. Fine PE disclaims any warranty, either expressed or implied, arising from this inspection of the septic system.

Signature: _____

Printed Name: _____

Date: 1/15/16

Douglas E. Fine P.E.

NJ Licensed Professional Engineer # 24GE04311900

Appendix of Photos



Looking into the manhole. Care should be given to the pumping to make sure all solids are removed, as this opening is only 12" in lieu of the newer tanks having a 24" opening.



Plastic Distribution Box.



Dry gravel in the disposal area.



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 29, 2016

Letter of Review

Regina Scheirer
11 River Knoll Drive
Titusville, NJ 08560

RE: Block 99.03, Lot 3 (11 River Knoll Drive)

Dear Mrs. Scheirer,

This office has received the applications for letter of review for well water and septic for the sale of the above referenced property. A review of the material submitted with the application revealed the following:

WELL WATER – A well water analysis report dated 2-16-2016 from New Jersey Analytical Laboratories indicated the well water was compliant for all primary New Jersey Safe Drinking Water Act parameters with the exception for total coliform bacteria. An ultra violet disinfection system has been installed and a post disinfection sample dated 3-22-2016 from New Jersey Analytical Laboratories indicated the water was compliance for New Jersey Safe Drinking Water Act bacteriological standards at the time of analysis.

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.

SEPTIC SYSTEM – A septic system inspection report dated 1-15-2016 from Douglas E. Fine, P.E. indicated the septic system was functioning satisfactorily at the time of inspection.

Based on the information provided to this office, a letter of review is hereby issued.

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 'R. English', written over a large, light blue 'COPY' watermark.

Robert B. English
Health Officer

COPY

DOUGLAS E. FINE, P.E.

(908) 399-4150

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*All good
Recomm. Set Washing*

SEPTIC SYSTEM EVALUATION

FOR

Christie Mattia



11 River Knoll Dr.

Titusville, NJ

Hopewell Twp. - Block 99.03, Lot 3

DOUGLAS E. FINE, P.E.

(908) 399-4150

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SEPTIC SYSTEM INSPECTION REPORT

CLIENT INFO

Client Name: CHRISTIE MATTIA Different from owner? ☒ yes ☐ no Client Address: 2151 ASH CT. MON. JCT, NJ 08852 Contact Method: home tel. _____ work tel. _____ e-mail _____ Fax _____	Inspector Name: DOUG FINE Date: 1/14/16 Address (including municipality): 11 River Knoll Titusville Municipality Hopewell Twp. Block: 99.03 Lot: 3 Was GPS used? ☐ yes ☒ no
--	--

INSPECTION LOCATION

Preliminary Information:

Weather:

32-F

Last precipitation: >3DAYS

Age of system: 45 Years

Type of dwelling

☒ Residential Number of Bedrooms: 4

☐ Non residential Describe: _____

How many systems are being inspected? 1

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):

File review performed with administrative Authority?

☒ yes ☐ no If no, explain why below.

	Yes	No
Is there a site plan or septic map available?	☒	☐
Is the dwelling currently being occupied?	☒	☐
If so, how many occupants? 2+		
If no, date last occupied? _____		
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?	☒	☐
Is the dwelling free of any historical sewage back ups Into the structure?	☒	☐
Does all sewage enter the septic system and no type of sewage bypass exists?	☒	☐
Septic Tank Pumping:		
Is the septic tank pumped regularly?	☐	☐
Frequency: UNKNOWN		
Date of last pumping: UNKNOWN		

Comments: NO GARBAGE DISPOSAL FOUND. A WATER SOFTENER DOES BACKWASH INTO PLUMBING.

Treatment Tank:

Type of system being inspected?

- ☒ Septic tank ☐ A cesspool is not a system
☐ Gray water ☐ Multi-compartment: # _____
Name the material of the system?
☐ Concrete ☐ Block
☐ Steel ☐ Other _____

Approximate Treatment Tank Volume: 1000 gal.

Evaluate the conditions of tank below:

	Satisfactory	Unsatisfactory	N/A
Top and Lids	☒	☐	☐
Inlet baffle	☒	☐	☐
Outlet baffle	☒	☐	☐
Cracks or Leaks	☒	☐	☐
Sewage Flow from structure	☒	☐	☐

Comments:

CENTER MANHOLE OVER A 12" OPENING. SEE PHOTO.Yes No

- Main tank lid opened for inspection? ☒ ☐
Liquid level below the tank's inlet invert? ☒ ☐
Liquid level at the tank's outlet invert? ☒ ☐
Treatment tank pumped for this inspection? ☒ ☐
Are all portions of the tank(s) clear of structures like a deck or a driveway? ☒ ☐
Is the area clear of evidence that sewage has surfaced above the treatment tank? ☒ ☐
Does water flow unimpeded from the Treatment Tank? ☒ ☐
Is an effluent filter a part of the system? ☐ ☒
If yes, does it appear properly maintained? ☐ ☐
Are there any other types of accessory units present? ☐ ☒
Depth to top of tank: 14 inches
Depth to top of tank access: 0 inches

Absorption Area:

Name the type of the absorption system? _____

- ☒ disposal bed ☒ gravity flow ☐ gravity dosing ☐ pressure dosing ☐ mounded
☐ disposal trench(es) ☐ Other _____
☐ seepage pit

☐ cesspool – NOT A SEPTIC SYSTEMWas the absorption system located? ☒ yes ☐ noAre inspection ports present? ☐ yes* ☒ noIf no, explanation below.
If yes, how many? _____

*All levels observed must be included in report: _____

Was a separate probe dug in the absorption area to confirm the observations in the inspection ports? ☐ yes ☐ no ☒ N/AIs the area of the absorption system free of sewage odors? ☒ yes ☐ no ☒ N/ADoes sewage flow from the treatment tank to the absorption system without flowing back? ☒ yes ☐ no ☐ N/AIs the area above or near any of the system components free from visible signs of effluent or sewage? ☐ yes ☒ no **EVIDENCE OF SOME SLUDGE OVER TANK LID (IN RISER)**Are the areas at or near the inlet invert of any absorption area component free of visible signs of sewage or effluent? ☐ yes ☒ no **SLUDGE IN D-BOX**

Are areas above or near system components free of lush vegetation?

Is the area directly over any part of the absorption system free of any evidence of, large objects (cars, pools, etc.)? ☒ yes ☐ no ☐ N/A

Is there a distribution box?

☒ yes ☐ no **PLASTIC D-BOX**Depth of soil cover over d-box lid: 16" +/-

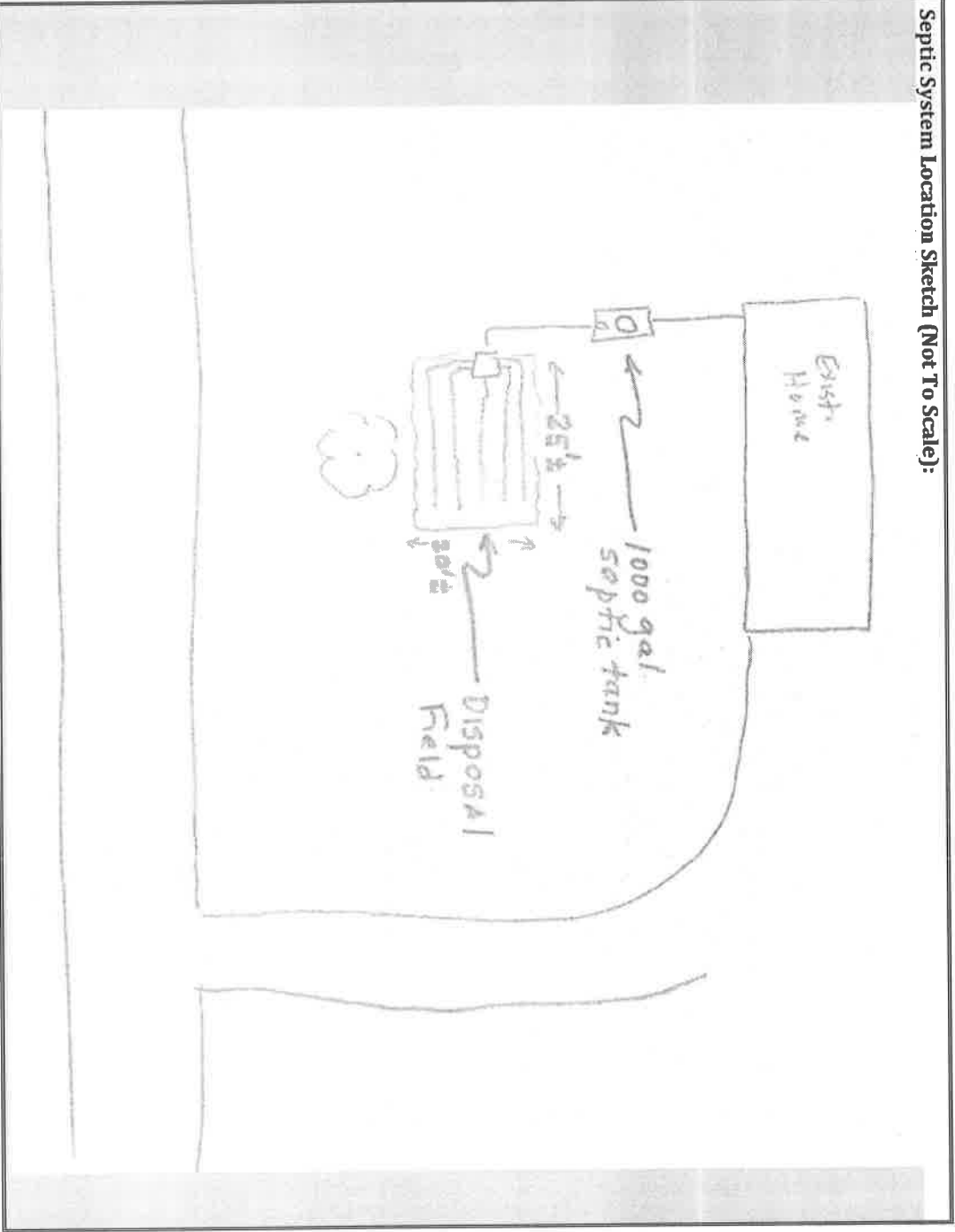
Is the distribution box in satisfactory condition?

Explanation of condition: ☐ cracked lid ☐ cracked/deteriorated walls ☒ yes ☐ no ☐ N/A ☐ not level

Comments:

NEWER PLASTIC D-BOX, AND PVC LINES. THE PVC LINES EXIT THE D-BOX AND ATTACHED INTO THE OLD ORANGEBURG LATERALS. SOME SLUDGE IN THE BOX AND IN THE LATERAL LINES. HOWEVER THE APPROX. 20' x 25' BED CONSISTED OF CLEAN STONE AS WAS DRY. I WOULD RECOMMEND THAT THE LATERAL LINES BE JET-WASHED (PRESSURE CLEANED) TO REMOVE THE BUILD-UP OF SLUDGE.

Septic System Location Sketch (Not To Scale):



Summary:		<u>Satisfactory</u>		<u>Requires Additional Investigation</u>
		with Concerns		
Condition of the treatment tank(s)	☒	<u>Satisfactory</u>	<u>Unsatisfactory</u>	N/A
Condition of the dosing system	☒			
Condition of the connecting line and distribution box	☒			
Condition of the absorption area(s)	☒			
Condition of the effluent filter	☒			

Summary Comments:

Visual Observations:

The attached site sketch presents the location of the primary septic system components. The septic system is comprised of a 1,000 gallon concrete septic tank and a disposal filed consisting of 5 laterals in a gravel bed. An onsite well provides the property with potable water. The water supply is currently fitted with a water treatment system that does backwash into the septic system. The kitchen sink is not equipped with a garbage disposal system at this time. The building is furnished with conventional plumbing fixtures that discharge into a common building sewer that exits the foundation wall at the front of the dwelling.

The septic tank manhole cover was removed to inspect the integrity of the tank. The main lid of the tank was found approximately 14" below the ground surface beneath the lid inside the riser. Minor evidence of past sludge surfacing above the top may have been caused by a previous clog in cast iron piping. The cast iron piping has been replaced with newer PVC. The liquid level within the tank was found to be at the lip of the outlet pipe. This is considered the correct operating level.

A licensed hauler then pumped the contents of the tank. No effluent was observed to run back into the tank from the outlet opening. We found both the inlet and outlet baffles on the tank to be intact and functional.

We proceeded to insert a camera snake into the outlet of the septic tank. Using a hand held receiver, we traced the transmitter to the distribution box at the location shown on the attached sketch. The distribution box serves to distribute effluent evenly to all laterals within the disposal field. The lid of the distribution box was excavated and we found sludge surfacing above the distribution box or within the soil surrounding the box. We removed the distribution box lid and found the liquid level within the distribution box to be at the lip of the outlet pipes. This is considered the correct operating level. Some sludge was noted within the box.

Next, the camera was run out the outlets of the distribution box and the interiors of the laterals were observed on the monitor. We noted an accumulation of sludge within the lateral pipes. I recommend that this sludge be cleaned out, utilizing a pressure jet-washing of the lines. The field was probed to assess any saturation. We found the field to be clean and dry. Next a small excavation was made adjacent to the field to confirm the probing.

Comparison with Code Requirements:

NJAC 7:9A - Standards for Individual Subsurface Sewage Disposal Systems, defines the criteria for recognizing noncompliant systems at NJAC 7:9A-3.4(a-b). The six (6) criteria include:

1. Contamination of nearby wells or surface water bodies by sewage or effluent as indicated by the presence of fecal bacteria where the ratio of fecal coliform to fecal streptococci is 4 or greater;
2. Ponding or breakout of sewage or effluent onto the surface of the ground;
3. Seepage of sewage or effluent into portions of buildings below ground; or
4. Back-up of sewage into the building served which is not caused by a physical blockage of the internal plumbing.
5. Any leakage from or into septic tanks, connecting pipes, distribution boxes and other components that are not designed to discharge sanitary sewage or effluent; or

6. Any discharge of sanitary sewage without a zone of treatment.

Water sampling is normally performed as part of a home inspection and is not typically included with a septic inspection. Should the laboratory analysis of the water sample indicate a presence of total coliform, a second water sample should be collected and analyzed to determine if the septic system is malfunctioning as defined in item one (1) above.

Because none of the remaining criteria were met at the time of our inspection, we are able to conclude that the septic system is compliant/not malfunctioning under the current usage and operating conditions.

Discussion & Conclusions:

I always recommend considering the installation of an outlet baffle filter to help prevent the future overflow of solids from leaving the septic tank and entering the disposal laterals. An associated service program would also help to prolong the remaining life of your system. All new tank installations since 2012 require effluent filters. They are a relatively inexpensive addition to the system that can add longevity.

Future Advice: We recommend that you have the contents of the septic tank pumped every 2 years. You should avoid placing non-biodegradable materials such as feminine hygiene products, baby wipes, cigarette butts, etc. into the system. These items do not breakdown and increase the rate of solids buildup within the tank. This results in the need to pump the septic tank more frequently to prevent solids carryover into the disposal field. We do not recommend the use of a garbage disposal in the kitchen sink for the same reason. Leaking plumbing fixtures can add a significant unnecessary hydraulic load on the septic system. We recommend that leaking plumbing fixtures be repaired immediately to avoid overloading the septic system.

PLEASE DO NOT HESITATE TO CONTACT ME IF YOU HAVE ANY QUESTIONS.

Health Department Reporting:

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

- ☐ 1. Contamination of nearby wells, or surface water bodies (eg: streams or rivers), by sewage or septic effluent
- ☐ 2. Ponding or breakout of sewage or effluent onto the surface of the ground
- ☐ 3. Seepage of sewage or effluent into portions of buildings below ground
- ☐ 4. Backup of sewage into the building served which is not caused by a physical blockage of the internal plumbing
- ☐ 5. Any leakage from or into septic tanks, connecting pipes, distribution boxes and other components that are not designed to discharge sanitary sewage or effluent; or
- ☐ 6. Any discharge of sanitary sewage without a zone of treatment.

Pursuant to N.J.A.C. 7:9A-12.6(d) 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. Regardless of observations made, a copy of this report should be provided to the local administrative authority within 10 days of the issuance of this report.

If encountered, describe all observed noncompliant conditions encountered during this inspection:
NONE

Disclaimer:

Douglas E. Fine PE performs inspections in accordance with the "Technical Guidance 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 July 2003.

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- an objective evaluation of the onsite wastewater treatment system's characteristics based on the experience and expertise of a qualified inspector.
- an evaluation of each component examined leading to a conclusion about the system's condition.

A NUDEP Inspection is not:

- 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, Douglas E. Fine PE submits this sub-surface sewage disposal system inspection report. The inspection is based on the current condition of the onsite sewage disposal system. Douglas E. Fine PE makes no representation that the system was designed, installed, or meets NJAC 7:9A-1.1 et. seq. Douglas E. Fine PE 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 Douglas E. Fine PE to supervise or monitor the use and maintenance of the system, this report shall not be construed as a warranty by Douglas E. Fine PE that the system will function properly for anyone. Douglas E. Fine PE disclaims any warranty, either expressed or implied, arising from this inspection of the septic system.

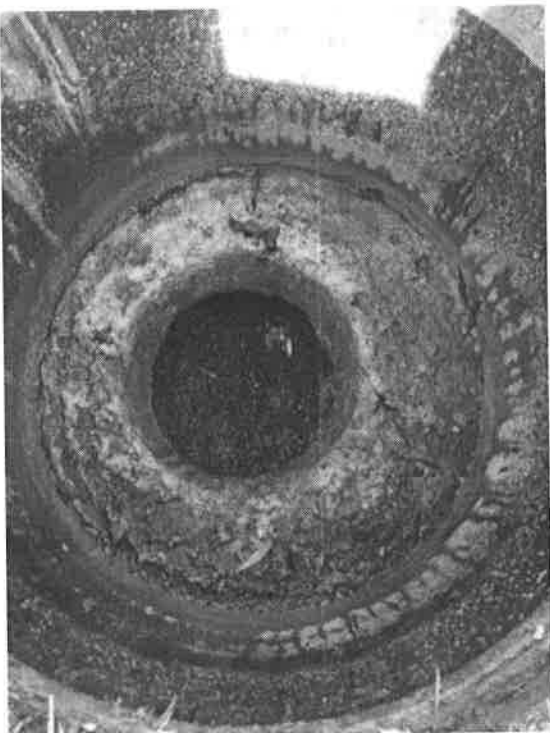
Signature: _____

Printed Name: _____

Douglas E. Fine P.E.
NJ Licensed Professional Engineer # 24GE04311900

Date: 1/15/16

Appendix of Photos



Looking into the manhole. Care should be given to the pumping to make sure all solids are removed, as this opening is only 12" in lieu of the newer tanks having a 24" opening.



Plastic Distribution Box.



Dry gravel in the disposal area.



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

June 11, 2010

Estate of Violet B Muschiatti
c/o trustee Gloria Asterino
25 Delaware Rinn Drive
Yardley, PA 19067

Letter of Review Septic & Well

RE: Block 99.03, Lot 3 (11 River Knoll Drive)

Dear Property owner

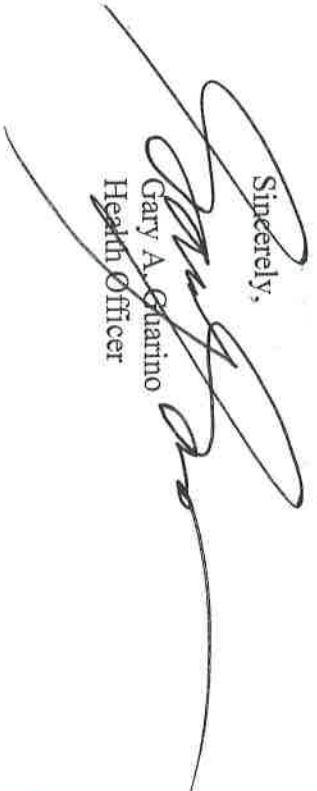
This office has received the applications for letter of review for both well water and septic system inspection for the sale of the above referenced property. These have been issued as noted.

1. **The well water from the potable well meets federal, state and local safe drinking water regulations.**
2. **The septic system was found to be satisfactory or satisfactory with concern by the inspection company. (See Report for comments if any)**
Repairs to tank and d-box have been completed. Monitor pipe installed.

Based on the information provided to this office, the septic and well letters of review for this property are released and a copy is hereby provided. (See page 2 of applications) No further inspections are required in for this sale.

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

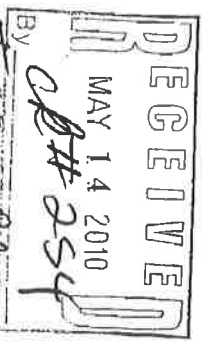
Sincerely,


Gary A. Starino
Health Officer

Email Laure Kozma

Hopewell Township Health Department
201 Washington Crossing Pennington Road
Titusville, NJ 08560
609-737-0120

APPLICATION FOR LETTER OF REVIEW
Onsite Sewage Disposal System



Block 9903 Lot 3 Location 11 River Knoll Drive, Unit 11, N5085

Transfer/Tenancy/Change in Use (circle one) Date Fee \$25.00 received KIR

Property Owner Gloria Asterino Phone 215-498-3058

Owner's Address 25 Delaware Pin Drive

City Yardley State PA Zip 19065 FAX 215-321-7907

Legal Agent for owner Self Phone

Fax E-mail

Purchaser/Tenant Name James Regina Scheiser Phone

Purchaser/Tenant Address No Address or Telephone Number

City State Zip FAX

Legal Agent for Purchaser Laura Kozna Phone 609-208-130

Fax 609-208-1483 Email LTKoznaEsg@aol.com

Ordinance BH 2003-1 There shall be no transfer of real property, change in the use or change in tenancy of a property which utilizes an onsite sewage disposal system until the Administrative Authority or its authorized representative shall have issued a Letter of Review stating that the sewage disposal system complies or does not comply with the requirements of this ordinance and are in addition to and not in lieu of any applicable federal and state laws and regulations. In the event that any present or future federal or state law or regulation imposes standards more stringent than the requirements of this ordinance, the more stringent standards shall govern. The requirements of this ordinance shall pertain to all onsite subsurface sewage disposal systems in Hopewell Township, whether the property served is used for residential, commercial, agricultural or industrial purposes. Effective October 1, 2003

This application must be completed and submitted 10 business days prior to transfer of properties, change in use or change in tenancy. Be sure to include the name and address of all persons owning, purchasing or leasing the property upon which the onsite sewage disposal system is located.

Make check for \$25 payable to Hopewell Township

Transfer of real property:

A report by an independent inspection company indicating that the septic system inspection was conducted meeting minimum standards for the inspection of subsurface sewage disposal systems as prescribed by the Administrative Authority and or the NJ DEP shall be submitted.

For the purposes of this ordinance, Appendix A "Minimum Requirement for the Inspection of Septic Systems" needed for the Sale, Transfer or Lease of Properties in Hopewell Township shall serve as a minimum guideline document for conducting septic inspections and such time as new rules or regulations are issued by NJ DEP. This document is adopted by reference. Appendix A must be executed by the Health Department as required.

Health as well as septic compliance in form of a law 13-04



April 9, 2010

Mr. Rodney Faller

**Re: 11 River Knoll Drive
Titusville, NJ 08560**

Dear Mr. Rodney Faller

The on lot wastewater treatment system for the above referenced property was inspected on April 9, 2010. Following is a summary of the findings.

Background Information:

The existing 4 bedroom house was reportedly constructed approximately 45 years ago. Drawings of the septic system were obtained from the Hopewell Township Health Department and reviewed. The system was designed to include a 1,000 gallon septic tank. Drawings do not match the septic location on the property.

Visual Observations:

The attached onsite inspection form contains a site sketch that we generated presents the location of the septic system components. The septic tank and absorption area are located at the left side of the house.

The septic tank manhole cover was removed to inspect the integrity of the tank. Tank access was approximately 30" below grade. We did not observe any sludge surfacing above the top of the tank or within the soil surrounding the top of the tank.

A sewer camera was inserted into the outlet pipe and pushed towards the d.box. The outlet line was found to be in satisfactory condition, but the d-box and septic tank were found to be in unsatisfactory condition, due to the d-box being deteriorated and a missing inlet baffle in the septic tank.

Observation holes were placed in the absorption area and no liquid was observed in the field.

**Re: 11 River Knoll Drive
Titusville, NJ 08560**

The plumbing fixtures in the building were operated to insure all of the fixtures discharge into the septic system.

The tank was pumped, inspected and found to be in satisfactory condition.

On lot treatment systems are designed for a useful life of 20 to 30 years. This system is reported to be 45 years old.

Discussion & Conclusion:

Based on the preliminary information provided and the field inspection, the onlot system was found to be in unsatisfactory condition. The following repairs need to be made.

- 1 - Replace the deteriorated distribution box.
- 2 - Replace the missing inlet baffle.
- 3 - Install a riser on the septic tank access to bring the access to grade for ease of pumping.

Due to the property being vacant, the absorption area was not checked under normal hydraulic loading. The NJDEP recommends two day hydraulic load testing for vacant properties.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Michael Gallagher
Pillar To Post

ONSITE SYSTEM INSPECTION FORM

Inspection Overview

- Preliminary system information
 - Inspection of treatment tanks
 - Absorption system inspection
 - Disposal/conveyance system assessment
 - Identification of any alternative technology approved components
- Requires additional inspection

INTERNAL USE ONLY:

C l i e n t I n f o Client Name: <u>Rodney Faller</u> Different from owner? (X) yes 0 no Client Address: _____ _____ _____ Contact Method: _____ home tel. _____ work tel. _____ e-mail _____	S y s t e m L o c a t i o n Inspector Name: <u>Michael Gallagher</u> Date: <u>April 10, 2010</u> ISSDS Address (including municipality): <u>11 River Knoll Drive</u> <u>Titusville, NJ 08560</u> New Jersey Coordinate: Block: <u>99.03</u> Lot <u>3</u> Was GPS used? 0 yes (X) no
---	--

Preliminary Information: Weather: <u>Sunny</u> Last Precipitation: <u>None in past 72 hours.</u> Age of system: <u>45</u> Type of dwelling? (X) Residential Number of Bedrooms: <u>4</u> 0 Non-residential Describe: _____ How many systems are being inspected? <u>1</u> List any commercial activities or high impact hobbies: <u>None reported.</u> 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): <u>None reported.</u> _____ _____ Date file review requested with administrative authority: <u>April 10, 2010</u>	Is there a site plan or septic map available? Yes <u>(X)</u> No <u>0</u> Is the dwelling currently being occupied? 0 (X) If so, how many occupants? <u>Vacant 6-8 months</u> If no, date last occupied? _____ If there is a washing machine, is it connected to a separate gray water disposal system? 0 (X) Is the dwelling free of additional gray water systems? (X) 0 Is the dwelling free of garbage disposal system? (X) 0 Is the dwelling free of sump pump discharges to the system? (X) 0 Is the dwelling free of any historical sewage back ups into the structure? (X) 0 Does all sewage enter the septic system and no type of sewage bypass exists? (X) 0 Septic Tank Pumping: Is the septic tank pumped regularly? 0 0 Frequency: <u>unknown</u> Date of last pumping: <u>unknown</u> Was a file review completed prior to inspection? (X) 0 If no, explain why: _____
--	--

Comments: _____

Onlot wastewater treatment systems are designed for a useful life of 20 to 30 years. This system is reported to be 45 years old. Like other components of a home a septic system has a useful life span. Systems installed prior to 1990, generally do not meet current standards and are beyond their peak operating efficiency. System is older and at the end of its designed life budget for replacement.

Treatment Tank:

Type of system being inspected?

(x) Septic tank 0 Cesspool 0 Other _____
 0 Gray water 0 Multi-compartment: # _____

Name the material of the system?

(x) Concrete 0 Block _____
 0 Steel 0 Other _____

Approximate Treatment Tank Volume: 1,000 gal.

Evaluate the conditions of tank below:

	Satisfactory	Unsatisfactory	N/A
Top and Lids	(x)	0	0
Inlet baffle	(x)	0	0
Outlet baffle	(x)	0	0
Cracks or Leaks	(x)	0	0
Sewage Flow from structure	(x)	0	0

Main tank lid opened for inspection?

Yes (x) No 0

Liquid level below the tank's inlet invert?

(x) 0

Liquid level below the tank's outlet invert?

(x) 0

Treatment tank pumped for this inspection?

(x) 0

Are all portions of the tank(s) clear of structures like a deck or driveway?

(x) 0

Is the area clear of evidence that sewage has surfaces above the treatment tank?

(x) 0

Does water flow unimpeded from the treatment tank?

(x) 0

Is an effluent filter a part of the system?

0 (x)

If yes, does it appear properly maintained?

0 0

Are there any other types of accessory units present?

0 (x)

Depth to top of tank: 30 inches

Depth to top of tank access: 30 inches

Comments: _____

Absorption Area:

Name the type of the absorption system?

(x) disposal bed 0 disposal trench _____
 0 seepage pit 0 mounded _____
 0 cesspool 0 other _____

Was the absorption system located? (x) yes 0 no If no, explain below.

Are inspection ports present? 0 yes (x) no

If yes, how many? _____

Were the inspection ports checked? 0 yes* 0 no (x) N/A *All levels observed must be included in report.

Was a separate probe dug in the absorption area to confirm the observations in the inspection ports? (x) yes 0 no 0 N/A

Is the area of the absorption system free of sewage odors?

(x) yes 0 no 0 N/A

Does sewage flow from the treatment tank to the absorption area without flowing back?

(x) yes 0 no 0 N/A

Is the area above or near any of the system components free from visible signs of effluent or sewage?

(x) yes 0 no

Are the areas at or near the inlet invert of any absorption area component free of visible signs of sewage or effluent?

(x) yes 0 no

Are areas above or near system components free of lush vegetation?

(x) yes 0 no

If exposed, is the distribution box in satisfactory condition?

(x) yes 0 no 0 N/A

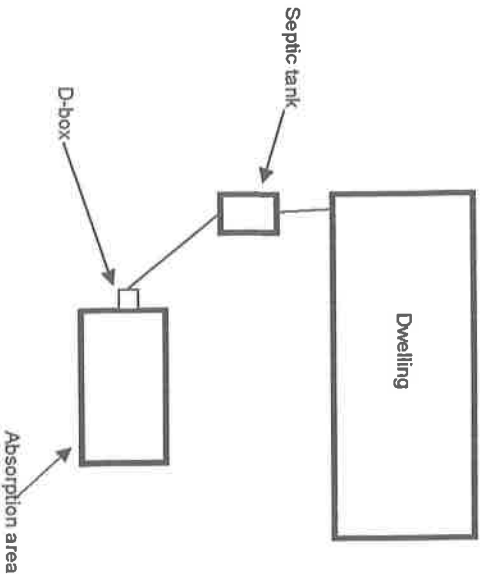
If not exposed, explain why not:

Deteriorated
 Is the area directly over any part of the absorption system free of any evidence of, large objects (cars, pools, etc.)? 0 0 no

Comments:

The property has been vacant for 6 to 8 months. This limits the inspection findings as normal hydraulic loading of the system did not occur prior to the inspection. We cannot predict how the system will function when the property is occupied. Since, the system was not hydraulically loaded prior to the inspection it is important to review the history of any repairs or any past problems, if any, with the owner. Additionally, NJDEP recommends a two day hydraulic load test for all structures vacant more than 7 days; after the initial inspection is completed.

Sketch the approximate system location in this space provided:



River Knoll Drive

Dosing or Pump Tank:
 Does the system contain a pump tank?
 Is the pump operating?
 Do the alarm(s) on the pump work?
 Is the pump elevated above the tank floor?
 Is the lid in satisfactory condition?
 Is the tank in satisfactory condition?
 Is the tank free of accumulated solids?

Yes	No	N/A
0	(x)	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

Summary:	Satisfactory	Satisfactory with Concerns	Unsatisfactory	Requires Additional Investigation	N/A
Condition of the treatment tank(s)	(x)	0	0	0	0
Condition of the conveyance and pump system(s)	0	0	(x)	0	0
Condition of the absorption area(s)	0	(x)	0	0	0
Condition of any accessory components	0	0	0	0	(x)

Comments:

- Have a qualified septic contractor make the necessary repairs to the septic system to insure proper operation.
- Observed the following defects at the time of the inspection.
- 1- Replace the missing inlet baffle.
 - 2- Replace the deteriorated distribution box.
 - 3- Install a riser on the main tank access to bring the tank access to grade for ease of pumping.

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. Any manner of leakage observed from or into septic tanks, connecting pipes, distribution boxes and other components that are not designed to emit sewage or effluent.

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. Regardless of observations made, a copy of this report should be provided to the local administrative authority within 10 days of the issuance of this report.

If encountered, describe all observed noncompliant conditions during this inspection:

Customer authorization:

I authorize "The Company" to enter the above listed property for the purpose of performing a sub-surface sewage disposal system inspection. I authorize "The Company" to expose parts of the system if required, to determine location and condition. I understand that "The Company" relies on information supplied by the owner(s) of the listed property of their agent and the local administrative authority in the evaluation of the sub-surface disposal system. I authorize "The Company" to provide this form to all parties as required.

Customer signature:

On File

Printed name: Rodney Faller

Inspector's signature:

Michael Gallagher

Printed name: Michael Gallagher

Disclaimer:

Based on today's observations and the information provided by the owner(s) of their agent, "The Company" submits this sub-surface sewage disposal system inspection form. The inspection is based on the current condition of the onsite sewage disposal system. "The Company" makes no representation that the system was designed, installed or meets N.J.A.C. 7:9A.1.1 et seq.. "The Company" has not been retained to warrant, guarantee, or certify the proper functioning of the system for any period of time. Because of numerous factors inability of "The Company" to supervise or monitor the use and maintenance of the system, this form shall not be construed as a warranty expressed or implied, arising from the inspection of the septic system.

This form was developed as a cooperative effort of:

Pennsylvania/New Jersey Sewage Management Association;
Rutgers Cooperative Extension New Jersey Agricultural Experiment Station; and
The New Jersey Department of Environmental Protection Septic System Inspection Protocol Subcommittee

Hopewell Township Health Department
201 Washington Crossing Pennington Road
Titusville, NJ 08560
609-737-0120

FEE \$25.00

Paid _____

APPLICATION FOR LETTER OF REVIEW
Onsite Well Water System



Block 923 Lot 0003 Street Address 11 River Knoll Drive, Titusville, NJ 08560

Check One: ☒ Sale of Property ☐ Rental of Property ☐ Change in Use Settlement Date July 9, 2010

Property Owner Information:

Name Gloria Asterius Phone: 215-493-3038
Address: 26 Debuane Rin Drive Fax: 215-331-3907

City Yorkley State PA Zip 19067 Email: gloriesto@aol.com

Attorney N/A Phone _____

Fax _____ E-mail _____

Purchaser/Tenant Information

No signed contract at the moment

Name Rachel Pauline Christine Conzatos Phone: _____
Address: 133 Shrestabar Ave Fax: _____

City Phoenicia State NY Zip 12554 Email: _____

Attorney Skatona P. McGinn Phone 908-886-3171
Fax 908-886-2423 E-mail skatona.p.mcginn@comcast.net

Ordinance BH 2003-1 There shall be no transfer of real property, change in the use or change in tenancy of a property which utilizes an onsite public or private well water system for its potable water supply until the Administrative Authority or its authorized representative shall have issued a Letter of Review stating that the water system complies or does not comply with water quality standards specified by the NJ Safe Drinking Water Act N.J.S.A. 58:12A-1 et seq. and implementing rules N.J.A.C. 7:10 and the Private Well Testing Act Regulations N.J.A.C. 7: 9E and any other parameters as specified by the Health Officer based on known contamination in this area. Effective October 1, 2003

This application must be completed and submitted **10 business days** prior to transfer of properties, occupancy or changes in use or change in tenancy and include the name and address of all persons owning, purchasing or leasing the property upon which the well is located.

Make check for **\$25** payable to Hopewell Township.

Transfer of real property:

An original Laboratory Report provided by a NJDEP certified laboratory, plus a chain of custody must accompany this application. The laboratory must indicate if the water exceeds any maximum

contaminate level (MCL) or Action Levels for any parameters for which standards have been established by the **Private Well Testing Act Regulations** N.J.A.C.7:9E and the **Safe Drinking water Act**

Regulations or by the Administration Authority.

Changes in Tenancy:

An original laboratory report provided by a NJDEP certified Laboratory, plus a chain of custody must accompany this application. The laboratory must indicate if the water exceeds any maximum contaminate level (MCL) or Action Levels for: Total Coliform (annual), Nitrates, Volatile Organics, EPA 524.2 or latest version, Lead, first flush, Arsenic, Gross Alpha, Cadmium (Tri-annual) and any other parameters as specified by the Health Officer based on known contamination.

_____ To be completed by Health Department _____

X All parameters meet established MCL or Action Levels

_____ Application incomplete and returned _____

_____ Well water system is not in compliance. Approval pending submittal of one or more of the following:

_____ Provide Point of entry Treatment system or Install new well. (Permits are required)

Provide manufacture specifications for all treatment systems.

_____ Provide Post treatment system or retested laboratory results.

_____ Filed copy of Deed with amendment provided.

_____ Provide a Copy of an agreement for remediation as negotiated by owner/purchaser to be completed or installed prior to occupancy of this property.

_____ Temporary approval granted on _____ and must be completed within **30 days**.

_____ Deed amendment for installed water treatment system.

_____ Acceptable duplicated Post treatment laboratory test results water results.

_____ Other _____

Letter of Review issued on 6-11-10 **To** Owner

By  Title HO

Violation: Any person or persons, firm or corporation violating any of the provisions of this ordinance upon conviction thereof, pay a penalty of not less than \$200.00 for each offense and an additional penalty of \$25.00 for each day of continuance of the violation after notice of the violation shall have been given to such person or persons, firm or corporation by the Administrative Authority, to be collected and enforced by summary proceedings for the collection of penalties pursuant to the New Jersey Penalty Enforcement Law. Such notice shall be given by (1) serving a copy thereof on the property owner as shown on the current tax map or his agent in charge of the property, or (2) mailing a copy thereof by certified mail to the property owner at his address as shown on the said tax map.

NJAL Lab ID# 37332

New Jersey Private Well Water Test Reporting Form



1580 Reed Road
Suite A1
Pennington, NJ 08534

Tel: (609) 737-3477
Fax: (609) 737-3052
www.njal.com

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: Estate of Violet Muschianti, c/o Gloria Asterino
Mailing Address: 25 Delaware Rim Drive
Yardley, PA 19067

Date Test Requested: 4/8/2010

Property Information

Property Address: 11 River Knoll Drive Municipality: Hopewell Township
Muni Code (4 digit): 1106 County: Mercer Lot: 3 Block: 9903
GPS Location- State Plane coordinates (feet): X: Well Head / Front Door Sample Collection Point / Other
GPS Coordinate Location (eats one): Y:
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 #: 1580 Reed Road - Pennington, NJ 08534
Tel: 809-737-3477

Sample Information:

Sample Collector Name: Harry Gerdes
Authorized Representative/Certified Laboratory Employee Lab Certification ID #: 11005
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: Well Tank-Raw
b.) Type of Treatment Device(s) installed (if known): Softener

() 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 affect the taste, odor, or appearance of drinking water. The Secondary Drinking Water contaminants are iron, manganese and pH.*

Precision testing for a cleaner environment.

NJAL Lab ID# 37332

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 Required	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	11005	SM9223B
E. coli*	Abs	Pres/Abs	0 (not present)	N	11005	SM9223B
Metals						
Arsenic *	1.5	ug/l	5 ug/l	N	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	<0.05	mg/l	0.3 mg/l	N	11005	SM 3111B
Manganese	0.002	mg/l	0.05 mg/l	N	11005	EPA 200.8
General Chemistry						
pH	7.47	su	6.5-8.5 (optimum range)	N	11005	EPA 150.1
Nitrate (total)	6,200	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	<0.2	ug/l	600 ug/l	N	11005	EPA 524.2
ortho-Dichlorobenzene	<0.3	ug/l	600 ug/l	N	11005	EPA 524.2
para-Dichlorobenzene	<0.3	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	<0.2	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	<0.5	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	<0.5	ug/l	1 ug/l	N	11005	EPA 524.2
Tetrachloroethylene	<0.2	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	<0.3	ug/l	8 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	<0.2	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	<0.2	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 (rad)	<0.82	pCi/L	5 pCi/L	N	04003	NJAC7-18-6
Gross Alpha (meq)	NA	pCi/L	15 pCi/L	NA	NA	NA

Units: Pico/decigrammes or Absems; ug/l microgramme per liter (also known as parts per billion); mg/milligramms per liter (also known as parts per million); pCi/micocuries per liter; meq/megacuries per liter.

* 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 "baited" raw (unretreated) 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 H.A.C. 7-9.6 as req. The Lead Action Level of 15 ug/l applies to a one liter residential tap sample collected from a cold water kitchen or bathroom tap in which the water has remained motionless in the plumbing system for at least six hours (40 CFR 141.84(d)(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. A 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 15, 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.

Precision Testing for a cleaner environment.

NJAL Lab ID# 37332

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.

ADDITIONAL SAMPLE INFORMATION:

Coliform Analyses:			
Date/Time Sample Collected:	04/08/10, 1058	Date/Time Sample Analyzed:	04/09/10, 1645
Date/Time Sample Collected		Date/Time Sample Analyzed:	Sample ID Number: 37332
Volatile Organics:			
Date/Time Sample Collected:	04/08/10, 1058	Date/Time Sample Analyzed:	04/09/10, 2109
Inorganics:			
Date/Time Sample Collected:	04/08/10, 1058	Date/Time Sample Analyzed:	04/08/10, 1918
Date/Time Sample Collected		Date/Time Sample Analyzed:	Sample ID Number: 37332
pH Analysis:			
Date/Time Sample Collected:	04/08/10, 1057	Date/Time Sample Analyzed:	04/08/10, 1059
Gross Alpha Analyses:			
Date/Time Sample Collected:	04/08/10, 1058	Date/Time Sample Analyzed:	04/10/10, 0914
Date(s) All Analyses Received by Reporting Lab from Subcontracted Lab (if applicable):			
Sample ID Number: 37332			

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

Date

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 Hotline at 1-866-4PW-TEST or visit the Private Well Testing Act webpage at www.state.nj.us/dep/pwte for links to other appropriate websites, such as National Sanitation Foundation www.nsf.org or USEPA's drinking water website www.ehponline.org/viewfullstory.php?tid=221. 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.

Precision testing for a cleaner environment.



TOWNSHIP of HOPEWELL

MERCER COUNTY

DEPARTMENT OF HEALTH

Also Serving Hopewell Borough & Pennington Borough

201 Washington Crossing Pennington Road Titusville, New Jersey 08560-1410
Phone: 609-737-0120 Fax: 609-737-6836 www.hopewelltp.org

May 14, 2010

Estate of Violet B Muschiatti
25 Delaware Rim Drive
~~gleister@hopewelltp.org~~
Yardley, PA 19067

Re: Block 99.03, Lot 3 (11 River Knoll Drive)

Dear Resident:

This office has received a water quality laboratory report for your property dated __4-8-2010. The report indicates the water is safe (S) unsafe (U) and or (E) elevated for the following items that were tested for:

☐ S Coliform bacteria
☐ S Volatile Organic compounds
☐ S Nitrates (slightly elevated at 6.2)
☐ S Lead
☐ S Gross Alpha
☐ S Arsenic
☐ S Secondary water quality contaminants

If this test was conducted as a requirement for the sale of your property, please be advised that an approval for the well water and septic system from the health department is required. Applications for "letter of review" are required to be submitted prior to the sale. You can find these forms in the Township's website: www.hopewelltp.org.

Treatment is only recommended for secondary contaminants only if there is an adverse impact on the taste, odor or appearance of the water. Retesting is always recommended to confirm report.

Please contact this me to discuss any water treatment issues and or any questions you may have on wells or septs at 737-0120 x 653.

Gary A. Guarino

Health Officer

Hopewell Township Health Department

201 Washington Crossing Pennington Road

Titusville, NJ 08560

Phone: (609) 737-0120 Fax: (609) 737-6836

Permit Number 2010-052

Date Issued 5-14-10

Fee Received

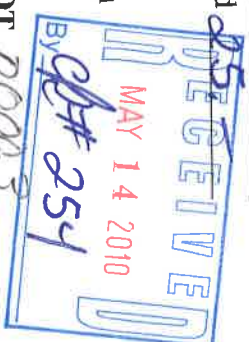
Septic System Repair & Abandonment Application

Property Location 11 Riverbend Drive BLOCK 99.03 LOT 0003

Applicant Gloria Asternio Address 25 Delaware Pin Drive

City Yardley State PA Zip 19067

Phone 215-493-3058 Cell 215-518-0005 Fax 215-321-7907



Existing Information, (Check one)

☒ Residential Single Family
No. of Bedrooms 4

☐ Residential Multiple Family
No. of Dwelling Units
Bedrooms per Unit

☐ Commercial/Institutional
Type of Establishment Sq Ft of Facility
Total # Occupants or Employees per Shift Meter Reading GPD
If estimate is based on water meter data, indicate source of data, frequency of readings average.

Existing Septic Tank Size 1600 gallons Garbage Disposal y/n N Sewage Ejector y/n

Existing Disposal System (check one) Bed ☒ Trenches Seepage Pit(s) Cesspool

Proposed Repair - Check Appropriate Category(s) Provide cut sheets for all new components

☐ Septic Tank Installation or Replacement. Compartment(s) Size gallons
All new & existing tanks must be provided with locking manhole to grade. Add 250gal or 2 compartments

☐ Connecting Pipes

☒ D-Box Replacement, add monitor pipe to existing field

☐ Pump Replacement Provide manufacturer Horsepower

☐ Connect washer or remove illegal discharge pipes

☐ Septic Tank /Cesspool Abandonment

☐ Replace filter bed material per engineer Monitor Ports are required

☐ Dosing Tank Size gallons Dose Volume gallons Reserve Capacity gallons

☐ External Grease Trap - Gallons Calculation

Other (Specify) inlet baffle missing
delaware No more

Describe Nature of Alteration or Repair(s):

replace inlet baffle and distribution box

smaller than to guide copper more inspection report

General Plan of System Showing Locations of All System Components

I hereby certify that the information furnished on 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.

CONTRACTOR Toms Bard Excavating PHONE # 609-397-3603

ADDRESS 233 Boat Hill Road city Donkersville

State NJ Zip 05530 Fax _____ Cell Phone # _____

Applicant / Contractor's Signature [Signature]

Office use

Application Approved	<u>5/17/10</u>	Inspector	_____
Application Denied	_____	Inspector	_____
Authorizing Signature	<u>[Signature]</u>	Date	<u>5/17/10</u>
Repair Completed	<u>X 5/20/10</u>	Inspector	<u>Be</u>
Septic System Abandonment	_____	Inspector	_____
Tanks Crushed and Filled	_____	Inspector	_____

Uses/health/word septic & well/Septic-repair, alter & abandonment application 3/2006



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

Gloria Asterino
25 Delaware Rim Drive
Yardley PA 19067

May 17, 2010

RE: Bock 99.03 Lot 3

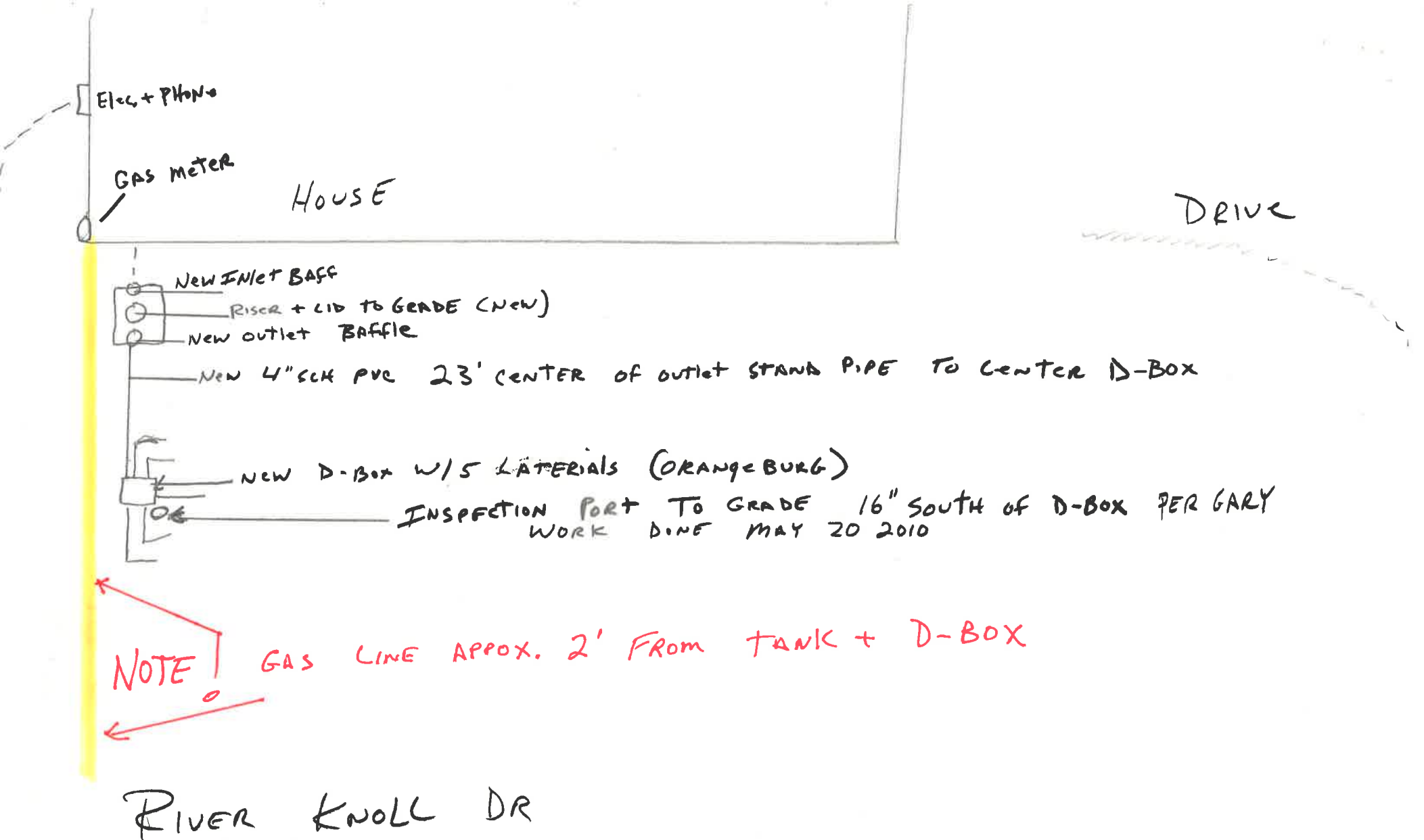
Enclosed please find your permit to replace the existing D-Box and/or connecting pipe at the above-mentioned property.

You or your contractor must notify this office at least (24) Twenty-Four Hours in advance of installation to schedule inspections with this office.

This permit is valid only to replace the existing D-Box and/or connecting pipe. You are not permitted to alter any component of the disposal field without further engineering and approvals from this office.

Very Truly Yours,

George Kiesel
Senior Environmental Health Coordinator



Gloria ASTERINO
11 RIVER KNOLL DR
TS-99.03
C-3



TOWNSHIP of HOPEWELL

MERCER COUNTY

DEPARTMENT OF HEALTH

Also Serving Hopewell Borough & Pennington Borough

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

Phone: 609-737-0120 Fax: 609-737-6836 www.hopewelltp.org

REQUEST FOR INFORMATION

Date of Request: May 12, 2010

Received from: Pedro P. Govantes

Address: 133 Shrewsbury Ct, Pennington

Telephone # 818-1446

Document/Information Requested: _____

Block _____ Lot _____

Address: _____

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

For Office Use:

Fee paid: _____

Recv'd by: _____

Date: _____

Notes: _____

99C/2/24

BOARD OF HEALTH OF HOPEWELL TOWNSHIP

Mercer County — New Jersey

APPLICATION FOR PERMIT TO LOCATE AND CONSTRUCT AN INDIVIDUAL SEWAGE DISPOSAL SYSTEM IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 188, P. L. 1950 AMENDMENTS THEREOF AND SUPPLEMENT THERETO AND THE STANDARDS FOR THE CONSTRUCTION OF SEWAGE FACILITIES.

Fill out both sides of this Application and present to the Building Inspector with 4 copies of a proper plan and a fee of \$10.00.

The plot plan shall be to scale and prepared, signed and sealed by a licensed New Jersey Professional Engineer. This plot shall show lot dimensions, location of the house, outbuildings, driveway and well. The location of any streams or natural water courses shall be noted together with a description of the intended grade revision and its effect on surface drainage if any.

The plot plan shall indicate the complete design of the proposed septic system noting distances from the disposal field to the house, property lines, streams and any large trees in the disposal area.

LOCATION Cor River Knoll Drive & Creek Rim Drive
No. Street

TAX MAP Page 24 Sec 99-C Lot 2

2 99-C "RIVER KNOLL"
Lot No. Sec. No. Development

OWNER (Print) JOHN LOVERO (Resident)

Present Address Brandon Rd & Spring Beauty Dr Phone No. TM 60496

INSTALLER (Print) Sam

Address Phone No.

10.00 Date Rec'd \$10.00 Fee Rec'd Spring A. Handwritten Application No.

Date Rec'd.

Type of Building to be Served Private Dwelling

Dwelling unit - No. of Bedrooms 4 Expansion Attic - Yes No

Other - Type of Building None Gals. per Person —

Type of Facilities Toilet, sink, washer etc. No. of Persons —

Size of Lot 200 x 200 irregular Area Sq. Feet 40,000 ±

Septic Tank - liquid Capacity 1000 gal Shape cylinder Material precast concrete

Width 11' 6" E Length APPROX 50 Diameter —

liquid Depth — Distance from liquid level to underside of top —

liquid Disposal - Disposal Trenches — Other Disposal Bed

Disposal Trenches - Width — Depth — lin. feet of pipe 150 ±

Distance between lines — Type of Pipe 4" orangeburg

Description Required by Chapter 199 692 SF

Designed 748 SF (200 x 3 1/2')

Extra 56 SF

PERCOLATION TEST RESULTS

Hole No.	Time in Min. Per In.	Number of Tests to Determine Saturation	Depth	Type of Soil Encountered. Depth of Each Type
1	17	4	32"	0" - 8" Top Soil 8" - 32" sandy loam 32" loose rock. (red shale)

I hereby certify that the above described proposed water supply system and sewage disposal facilities are in strict compliance with the provisions and requirements of Chapter 199-P.L.-1954 amendments thereof and supplement thereto and the standards for construction referred to therein.

Certified By Joseph D. Horton Engineer 14169 License No. 4/20/68 Date

Application By John Force Owner's (signature) — Date

CERTIFIED BY BOARD OF HEALTH

Cauter & Force Secy. of Board of Health 4-25-68 Date

4/24/68 ISSUED PERMIT NO. 2059

Inspection of Compliance Cauter & Force By RB Date 4-28-68

INDIVIDUAL DISPOSAL SYSTEM

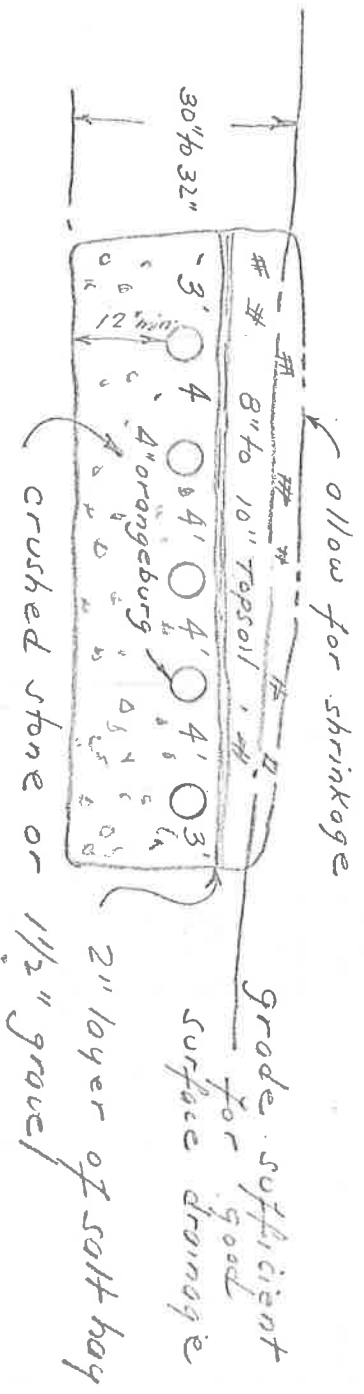
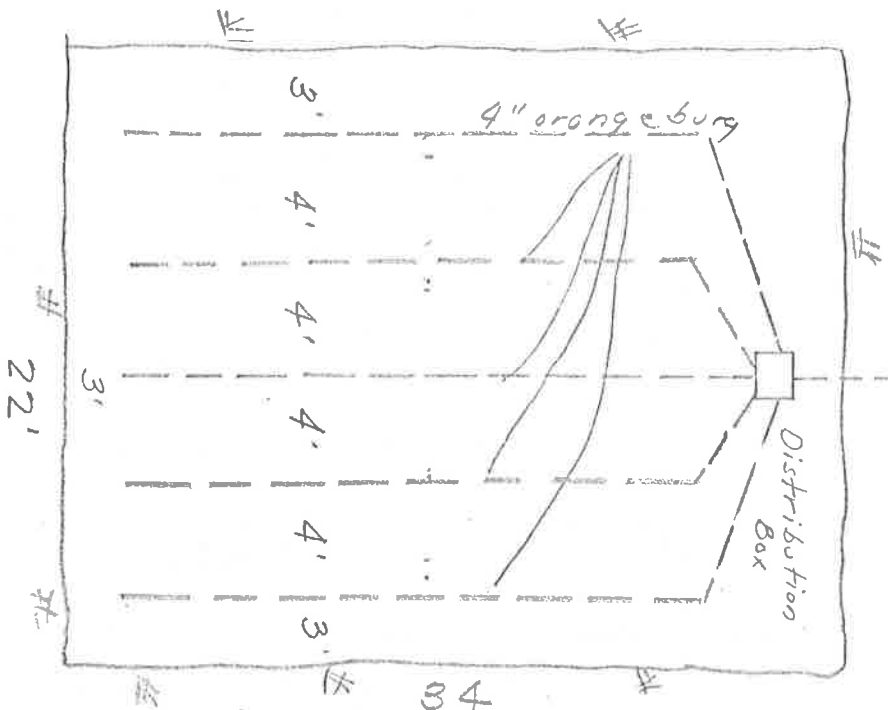
P.V. J.V.N.
Typical Disposal Bed

No Scale

Septic Tank

10' Min.

Max. slope of
lines 6" in 100'



CROSS SECTION SKETCH

DISPOSAL OF BED FOR

Block:	99.03	Prop Loc:	11 RIVER KNOLL DR	Owner:	MUSCHIATTI VIOLET B TRUSTEE ESTATE	Square Ft:	2130
Lot:	3	District:	06 HOPEWELL 08525	Street:	25 DELAWARE RIM DR	Year Built:	1971
Qual:		Class:	2	City/State:	YARDLEY PA Zip: 19067	Bldg:	3
Additional Information							
Prior Block:	00099 3	Acct Num:		Add Lots:		EPL Code:	00 00 000
Prior Lot:	00003	Mtg Acct:		Land Desc:	1.22AC	Status:	
Prior Qual:		Bank Code:	00000	Bldg Desc:	ISF 2AG	Initial:	0000000Further: 0000000
Updated:	01/12/07	Tax Codes:	P03	Class4Cd:		Desc:	
Zone:	R100	Map Page:	24	Acresage:	1.220	Taxes:	(57): 11330.68 (58): 0.00
Sale Date:	11/07/06	Book:	5510 Page: 00173	Price:		Ratio:	0.00
				Sale Information			
				1 NU#: 4			

TAX-LIST-HISTORY

Year	Owner Information	Land/Imp/Tot Exemption Assessed
2010	MUSCHIATTI VIOLET B TRUSTEE ESTATE	261000 0 520300
	25 DELAWARE RIM DR	259300
	YARDLEY PA 19067	520300
2007	MUSCHIATTI VIOLET B TRUSTEE	291000 0 550300
	11 RIVER KNOLL DR	259300
	TYTUSVILLE NJ 08560	550300



CHANGE-HISTORY Change Detail

Date	01/16/07	Mod4 additional lots=[-1]
	10/15/09	land value=[261000] impr value=[259300] tot value=[520300]

Gloria Nilson **GMAC**
Real Estate

PREMIER SERVICE™
CERTIFIED

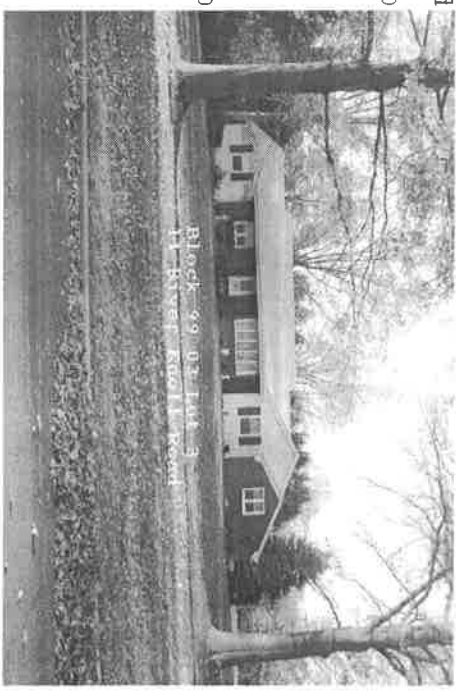
800 Denow Road, Suite N
Perrinton, New Jersey 08534
Office: 609-737-9100 (Ext. 133)
Fax: 609-737-1215
Cell: 609-273-2870
E-Mail: jbenvignati@gntgmac.com
Web: www.gntgmac.com/jillBenVignati

JILL BENVIGNATI
SALES ASSOCIATE

Block:	99.03	Prop Loc:	11 RIVER KNOLL DR	Owner:	MUSCHIATTI VIOLET B TRUSTEE ESTATE	Square Ft:	2130
Lot:	3	District:	06 HOPEWELL 08325	Street:	25 DELAWARE RIM DR	Year Built:	1971
Qual:		Class:	2	City State:	YARDLEY PA Zip: 19067	Bldg:	3
Additional Information							
Prior Block:	00099 3	Acct Num:		Addl Lots:		EPL Code:	00 00 000
Prior Lot:	00003	Mig Acct:		Land Desc:	1.22AC	Statute:	
Prior Qual:		Bank Code:	00000	Bldg Desc:	ISF 2AG	Initial:	0000000Further: 000000
Updated:	01/12/07	Tax Codes:	F03	Class4Cd:		Desc:	
Zone:	R100	Map Page:	24	Acrcage:	1.220	Taxes:	(57): 11330.68 (58): 0.00
Sale Date:	11/07/06	Book:	5310 Page: 00173	Price:	1 NU#: 4	Ratio:	0.00

TAX-LIST-HISTORY

Year	Owner Information	Land/Imp/Tot Exemption Assessed
2010	MUSCHIATTI VIOLET B TRUSTEE ESTATE	261000 0 520300
	25 DELAWARE RIM DR	259300.
	YARDLEY PA 19067	520300.
2007	MUSCHIATTI VIOLET B TRUSTEE	291000 0 550300
	11 RIVER KNOLL DR	259300.
	TITUSVILLE NJ 08560	550300.



CHANGE-HISTORY

Change Detail

Date	Mod4 additional lots=[-1]
01/16/07	
10/15/09	land value=[261000] impr value=[259300] totl value=[520300]



April 9, 2010

Mr. Rodney Faller

**Re: 11 River Knoll Drive
Titusville, NJ 08560**

Dear Mr. Rodney Faller

The on lot wastewater treatment system for the above referenced property was inspected on April 9, 2010. Following is a summary of the findings.

Background Information:

The existing 4 bedroom house was reportedly constructed approximately 45 years ago. Drawings of the septic system were obtained from the Hopewell Township Health Department and reviewed. The system was designed to include a 1,000 gallon septic tank. Drawings do not match the septic location on the property.

Visual Observations:

The attached onsite inspection form contains a site sketch that we generated presents the location of the septic system components. The septic tank and absorption area are located at the left side of the house.

The septic tank manhole cover was removed to inspect the integrity of the tank. Tank access was approximately 30" below grade. We did not observe any sludge surfacing above the top of the tank or within the soil surrounding the top of the tank.

A sewer camera was inserted into the outlet pipe and pushed towards the d box. The outlet line was found to be in satisfactory condition, but the d-box and septic tank were found to be in unsatisfactory condition, due to the d-box being deteriorated and a missing inlet baffle in the septic tank.

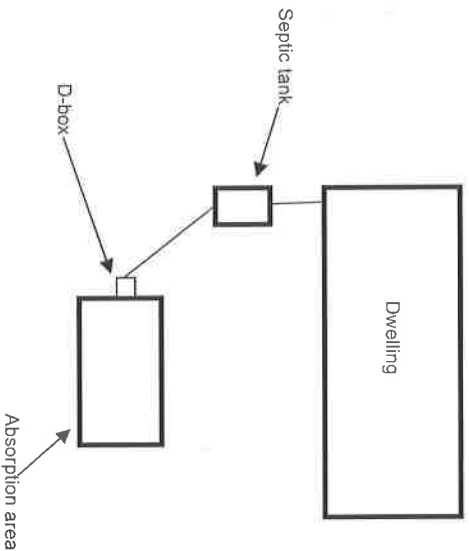
Observation holes were placed in the absorption area and no liquid was observed in the field.

**Re: 11 River Knoll Drive
Titusville, NJ 08560**

The plumbing fixtures in the building were operated to insure all of the fixtures discharge into the septic system.

2883 E. State Street Ext. Hamilton, NJ 08619
(609)890-9300

Sketch the approximate system location in this space provided:



River Knoll Drive

Dosing or Pump Tank:
 Does the system contain a pump tank?
 Is the pump operating?
 Do the alarm(s) on the pump work?
 Is the pump elevated above the tank floor?
 Is the lid in satisfactory condition?
 Is the tank in satisfactory condition?
 Is the tank free of accumulated solids?

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Does the system contain a pump tank?	☐	☒	☐
Is the pump operating?	☐	☐	☐
Do the alarm(s) on the pump work?	☐	☐	☐
Is the pump elevated above the tank floor?	☐	☐	☐
Is the lid in satisfactory condition?	☐	☐	☐
Is the tank in satisfactory condition?	☐	☐	☐
Is the tank free of accumulated solids?	☐	☐	☐

	<u>Satisfactory</u>	<u>Satisfactory with Concerns</u>	<u>Unsatisfactory</u>	<u>Requires Additional Investigation</u>	<u>N/A</u>
Condition of the treatment tank(s)	☒	☐	☐	☐	☐
Condition of the conveyance and pump system(s)	☐	☐	☒	☐	☐
Condition of the absorption area(s)	☐	☒	☐	☐	☐
Condition of any accessory components	☐	☐	☐	☐	☒

Comments:

- Have a qualified septic contractor make the necessary repairs to the septic system to insure proper operation.
- Observed the following defects at the time of the inspection.
- 1- Replace the missing inlet baffle.
 - 2- Replace the deteriorated distribution box.
 - 3- Install a riser on the main tank access to bring the tank access to grade for ease of pumping.



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. Any manner of leakage observed from or into septic tanks, connecting pipes, distribution boxes and other components that are not designed to emit sewage or effluent.

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. Regardless of observations made, a copy of this report should be provided to the local administrative authority within 10 days of the issuance of this report.

If encountered, describe all observed noncompliant conditions during this inspection:

Customer authorization:

I authorize "The Company" to enter the above listed property for the purpose of performing a sub-surface sewage disposal system inspection. I authorize "The Company" to expose parts of the system if required, to determine location and condition. I understand that "The Company" relies on information supplied by the owner(s) of the listed property of their agent and the local administrative authority in the evaluation of the sub-surface disposal system. I authorize "The Company" to provide this form to all parties as required.

Customer signature:

On File

Printed name: Rodney Faller

Inspector's signature:

Michael Gallagher

Printed name: Michael Gallagher

Disclaimer:

Based on today's observations and the information provided by the owner(s) of their agent, "The Company" submits this sub-surface sewage disposal system inspection form. The inspection is based on the current condition of the onsite sewage disposal system. "The Company" makes no representation that the system was designed, installed or meets N.J.A.C. 7:9A1.1 et seq.. "The Company" has not been retained to warrant, guarantee, or certify the proper functioning of the system for any period of time. Because of numerous factors inability of "The Company" to supervise or monitor the use and maintenance of the system, this form shall not be construed as a warranty expressed or implied, arising from the inspection of the septic system.

This form was developed as a cooperative effort of:

Pennsylvania/New Jersey Sewage Management Association;

Rutgers Cooperative Extension New Jersey Agricultural Experiment Station; and

The New Jersey Department of Environmental Protection Septic System Inspection Protocol Subcommittee



TOWNSHIP of HOPEWELL

MERCER COUNTY

DEPARTMENT OF HEALTH

Also Serving Hopewell Borough & Pennington Borough

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

Phone: 609-737-0120 Fax: 609-737-6836 www.hopewellwp.org

REQUEST FOR INFORMATION

Date of Request: 4-9-10

Received from: PICURE TO POST

Address: _____

Telephone # _____

Document/Information Requested: SEPTIC DRAWINGS

Block _____ Lot _____

Address: _____
Michael Sullivan

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

For Office Use:

Fee paid: _____

Recv'd by: _____

Date: _____

Notes: _____

WELL INSPECTION REPORT

Owner John Lovero
 (Mr. Roberts purchaser)
 Address Federal City Road, Trenton, N.J.

Lot 2, Sec. 99-C, Block _____ Map page _____
River Knoll Drive

WELL DATA AS COMPLETED

N. J. State well drilling permit # 27-5003 dated June 10, 1968

Depth	_____	550	ft.
Water level below top of casing	_____	40	ft.
Depth of suction or jet below top of casing	_____	441	ft.
Estimated capacity of well	_____	2	gpm
Length of pumping test	_____	4	hr.

I certify that the above information is correct and the well has been drilled, sealed, and disinfected according to the latest Hopewell Township Ordinance.

B&E WELL DRILLING CO.

By: Keith Tambul
 Dated July 30, 1968 Well driller

Inspection of construction was made on the following dates:

6-18-68 SITE - INFO 7-8-68 ABAC'S
SEPT-1-68 36" Casing
 Final construction of well and distribution system is certified to be in accordance with Hopewell Township Ordinance.

Arnold Buttrick
 Inspector

WATER QUALITY

Sample No. _____ Date _____

31695 9/11/68

Carlton C. Force
 Health Officer

Nº 31695

WATER ANALYSIS SERVICES

CARVERSVILLE, PENNSYLVANIA 18913

(215) 297-5800

(609) 397-0800



EDWIN HARRINGTON

Hopewell Township Board of Health
Titusville
New Jersey 08560

Sample Collected September 5 1968
Sample Received
Collected by E H
Sampling Point pressure tank
Source drilled well
Frequency
Copies to B and E

Location Lovero, River Knoll - yellow siding

Section 99C lot 2

Construction

Treatments

*All analyses conform to the requirements of the current edition "Standard Methods for the Examination of Water and Wastewater"
Approved for the Bacteriological Examination of Water by the Pennsylvania Department of Health, No. VT-1-8-B*

24-hour Plate Count 35° C	20	medium
48-hour Plate Count 35° C	75	medium
Coliform Count MPN	0	negative
Coliform Count MF		
Coliform Differentiation		
Microscopic Organic Solids	++	medium
Microscopic Mineral Solids	+	low
Odor		
Color units		
Turbidity units		
Total Solids mg/l		
Oil and Grease mg/l		
Detergent mg/l MBAS		
Conductance mhos		
Residual Chlorine mg/l	0	negative
Reaction pH	7.6	medium alkaline
Hardness EDTA mg/l CaCO ₃	80	low
Hardness in grains per gallon	4.5	low
Carbonate Alkalinity mg/l CaCO ₃		
Bicarbonate Alkalinity mg/l CaCO ₃		
Carbon Dioxide mg/l		
Calcium mg/l		
Magnesium mg/l		
Sodium mg/l		
Iron mg/l		
Manganese mg/l		
Silica mg/l		
Nitrate mg/l		
Nitrite mg/l		
Phosphate mg/l		
Sulfate mg/l		
Chloride mg/l		
Fluoride mg/l		

No contamination. Safe for all use.

No 31695

WATER ANALYSIS SERVICES
CARVERSVILLE, PENNSYLVANIA 18913
(215) 297-5800 (609) 397-0800



EDWIN HARRINGTON

Hopewell Township Board of Health
Rtushville
New Jersey 08560

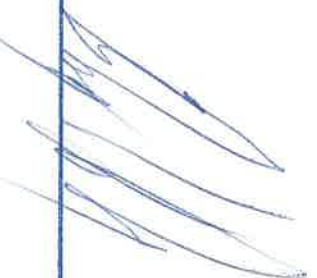
Sample Collected **September 5 1968**
Sample Received
Collected by **E H**
Sampling Point **pressure tank**
Source **drilled well**
Frequency
Copies to **B and E**

Location **Lovero, River Knoll - yellow siding** Section **99C lot 2**
Construction
Treatments

*All analyses conform to the requirements of the current edition "Standard Methods for the Examination of Water and Wastewater"
Approved for the Bacteriological Examination of Water by the Pennsylvania Department of Health, No. VII-8-B*

24-hour Plate Count 35° C	20	medium
48-hour Plate Count 35° C	75	medium
Coliform Count MPN	0	negative
Coliform Count MF		
Coliform Differentiation		
Microscopic Organic Solids	++	medium
Microscopic Mineral Solids	+	low
Odor		
Color units		
Turbidity units		
Total Solids mg/l		
Oil and Grease mg/l		
Detergent mg/l MBAS		
Conductance mmhos		
Residual Chlorine mg/l	0	negative
Reaction pH		
Hardness EDTA mg/l CaCO ₃	7.6	medium alkaline
Hardness in grains per gallon	80	low
Carbonate Alkalinity mg/l CaCO ₃	4.5	low
Bicarbonate Alkalinity mg/l CaCO ₃		
Carbon Dioxide mg/l		
Calcium mg/l		
Magnesium mg/l		
Sodium mg/l		
Iron mg/l		
Manganese mg/l		
Silica mg/l		
Nitrate mg/l		
Nitrite mg/l		
Phosphate mg/l		
Sulfate mg/l		
Chloride mg/l		
Fluoride mg/l		

No contamination. Safe for all use.



Hopewell Township Health Department
201 Washington Crossing Pennington Road

Titusville, NJ 08560
609-737-0120

APPLICATION FOR LETTER OF REVIEW
Onsite Sewage Disposal System



Block 9923 Lot 3 Location 11 River Knoll Drive, Millville, NJ 08550

Transfer/Tenancy/Change in Use (Circle one) Date _____ Fee \$25.00 received KR

Property Owner Gloria Astorino Phone 215-499-3058

Owner's Address 25 Delaware Run Drive

City Millville State PA Zip 19065 FAX 215-321-7907

Legal Agent for owner Self Phone _____

Fax _____ E-mail _____

Purchaser/Tenant Name _____ Phone _____

Purchaser/Tenant Address _____

City _____ State _____ Zip _____ FAX _____

Legal Agent for Purchaser _____ Phone _____

Fax _____ E-mail _____

Ordinance BH 2003-1 There shall be no transfer of real property, change in the use or change in tenancy of a property which utilizes an onsite sewage disposal system until the Administrative Authority or its authorized representative shall have issued a Letter of Review stating that the sewage disposal system complies or does not comply with the requirements of this ordinance and are in addition to and not in lieu of any applicable federal and state laws and regulations. In the event that any present or future federal or state law or regulation imposes standards more stringent than the requirements of this ordinance, the more stringent standards shall govern. The requirements of this ordinance shall pertain to all onsite subsurface sewage disposal systems in Hopewell Township, whether the property served is used for residential, commercial, agricultural or industrial purposes. Effective October 1, 2003

This application must be completed and submitted **10** business days prior to transfer of properties, change in use or change in tenancy. Be sure to include the name and address of all persons owning, purchasing or leasing the property upon which the onsite sewage disposal system is located.

Make check for \$25 payable to Hopewell Township

Transfer of real property:

A report by an independent inspection company indicating that the septic system inspection was conducted meeting minimum standards for the inspection of subsurface sewage disposal systems as prescribed by the Administrative Authority and or the NJ DEP shall be submitted.

For the purposes of this ordinance, Appendix A "Minimum Requirements for the Inspection of Septic Systems. Needed for the Sale, Transfer or Lease of Properties in Hopewell Township" shall serve as a minimum guidance document for conducting septic inspections until such time as new rules or regulations are issued by NJDEP. This document is adopted by reference. Revisions to Appendix A may be enacted by the Health Department as required.

BOARD OF HEALTH OF HOPEWELL TOWNSHIP

Mercer County – New Jersey

APPLICATION FOR PERMIT TO LOCATE AND CONSTRUCT AN INDIVIDUAL WATER SUPPLY
AND SYSTEM OR ALTER AN EXISTING WATER SUPPLY SYSTEM.

Four Copies Required on Each Transaction

SECTION A is to be filled out by each applicant.

SECTION B should be completed for ALTERATION of a water supply system.

SECTION C should be completed for CONSTRUCTION of an individual water supply system.

FEEES: \$5.00 Filing Fee when application is submitted.

\$10.00 Permit Fee when permit is issued.

Application for ALTERATION must be accompanied by a sketch of the property upon which the water supply is located, indicating (1) location of water supply to be altered (2) location of all buildings (3) location and type of sewerage facilities.

Applications for CONSTRUCTION must be accompanied by a sketch of the property to be served showing (1) size of lot (2) location of all buildings within 150 feet of water source (3) location of the proposed source of water supply (4) location of sewerage facilities or other possible sources of pollution within 150 feet of water source.

SECTION A

Owners Name (print)

John LOVERO

Date

4/25/68

Present Address

14 BRAUN RD.

Telephone

896-0496

Location of property for which this application is made

lot #2 See 99c - RIVER Knoll

Name of Contractor or well driller

B & E Well Drilling

Address

Rt 69 Flemington NJ

Telephone

SECTION B

Describe existing water system in detail

Describe in detail nature of alteration

SECTION C

Type of well or source of water supply

Drilled Well

Estimated depth of well

150'

Method of sealing

Concrete - (Cement)

Storage facilities

Storage Tank

Purification facilities

Choline

Type and capacity of Pumping Equipment

Submersible Pump

The undersigned agree to alter or construct (circle which) the aforesaid water supply in accordance with the provisions of an ordinance entitled "An ordinance establishing a code regulating the location, construction, alteration, use and supervision of individual and semi-public water supplies requiring certain permits, providing for the inspection of such supplies, the fixing of fees and prescribing penalties for violations." adopted by the Board of Health of the Township of Hopewell on October 25, 1966.

Contractor

signature

John Jones

Owner

signature

John Jones

Date 4-25-68 \$5.00 fee received

for Board of Health

Permission is hereby granted to () locate and construct or () alter the water supply as described above. \$10.00 fee received.

Board of Health of Hopewell Township

Date 4-25-68

by

Carlton & Jones

This is to certify that the above described water supply system has been constructed or altered in accordance with the aforementioned ordinance and that a sample of water has been tested in a suitable laboratory and found to be potable. The issuance of this certificate shall not be construed as a guaranty that the water supply will function satisfactorily nor shall it in any way restrict the powers or responsibility of the Board of Health in the enforcement of any law or ordinance relating to public health.

Board of Health of the Township of Hopewell

Date 4/11/68

by

Carlton & Jones

The report must describe in sufficient detail the basis for the decision that the septic system is in satisfactory condition, is not operating at its design capacity, is not satisfactory and or appears to be malfunctioning or is in need of repairs or alterations so as to be brought into conformance with the standards of N.J.A.C. 7:9A-3.4.

Additionally, the report must indicate or certify that the system as designed and or installed, complies with the provisions of N.J.A.C. 7:9A-3.3 "Existing Systems," with regards to use, expansion, or change in use.

If the application cites evidence of a malfunction, a plan to correct shall be provided to the Health Department.

Changes in Use or Tenancy:

Inspections shall be conducted and submitted each time a property is leased. Changes in use or of occupants must be noted in the report. Determination of wastewater generation for the proposed tenant must be provided and verified that it is within the design volume for the system. Inspection reports conducted within 6 months of the lease or sale may be used if more than one unit is included in the building and if all other design and occupancy conditions remain constant. Occupancy of units will not be allowed if malfunction system noted.

_____ To be completed by Health Department _____

Upon review of the information submitted to the Administrative Authority or its authorized representative, one of the following documents will be issued within five (5) business days of receipt of the completed application.

☒ Letter of review will be issued.

Septic system inspector certifies the satisfactory operation of the system per the ordinance.

_____ Notice issued that Additional information or data must be supplied

_____ Notice issued that the report, or its methods or conclusions, are rejected.

_____ Notice issued that the Letter of review will not be issued because, the System is not in compliance and that the system is in need of repair or replacement.

Application incomplete and returned _____ By _____

Temporary approval granted on _____ By _____
pending submittal of the following:

_____ A copy of the sales agreement to be provided. Specifically it should specify who is responsible for this work and when it is to be completed. Funding issues should be noted. Remediation does not need to occur before closing, as long as provided for in contract.

_____ Engineering certification for the alteration/repair provide

_____ Other _____

This must be completed within 30 days of temporary approval

Letter of Review issued on 6-11-10 To owner

By [Signature] Title HO

Violation: Any person or persons, firm or corporation violating any of the provisions of this ordinance upon conviction thereof, pay penalty of not less than \$200.00 for each offense and an additional penalty of \$25.00 for each day of continuance of the violation of the notice of the violation shall have been given to such person or persons, firm or corporation by the Administrative Authority, to be collected and enforced by summary proceedings for the collection of penalties pursuant to the New Jersey Penalty Enforcement Law. Such notice shall be given by (1) serving a copy thereof on the property owner as shown on the current tax map OR his agent in charge of the property, a (2) mailing a copy thereof by certified mail to the property owner at his address as shown on the said tax map.

Hopewell Township Health Department

201 Washington Crossing – Pennington Road

Titusville, New Jersey 08560

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

PERMIT

Applicant: Estate of Violet B Muschiatti

Block 99.03, Lot 3.00

For: INDIVIDUAL SUBSURFACE SEWAGE DISPOSAL SYSTEM REPAIR

Location: 11 River Knoll Drive

Fee: \$25.00

24 Hour Inspection Notification Required

This permit is NOT transferrable.

Authorized by: 
Hopewell Township Health Department