



ADVANCED SEPTIC INSPECTIONS

286 Houses Corner Rd.
Sparta, NJ 07871

1-800-597-0274
Fax: 1-800-834-2803

295 Princeton Hightstown Rd.
Unit 168
West Windsor, NJ 08550

April 13, 2017

Meghan Simmons
16 Pleasant Valley Road
Titusville, NJ 08560

RE: 160 Pleasant Valley Road
Titusville, NJ 08560
Septic System

BLOCK 52 LOT 75

Dear Meghan Simmons:

As requested, this company performed an inspection of the on lot wastewater systems at the above noted address on April 12, 2017. Attached is the report of that inspection which will document our findings. Based on the inspection, the overall system was found in **"Requires Additional Investigation Condition."**

The system contains three main components: the treatment tank that traps and treats the solids, the conveyance system which moves the liquid from the treatment tank to the absorption area, and the absorption area where the liquid percolates into the ground.

The treatment tank was found in "Requires Additional Investigation Condition."

The 1000 gallon concrete treatment tank was located, opened and inspected. Due to additional testing being recommended, pumping of the tanks was canceled. Conditions below the liquid levels in the tanks could not be evaluated and require additional investigation. No cracks or leaks in the tank were noted at the time of our inspection. The baffle that directs the solids to the base of the tank (inlet baffle) were found in satisfactory condition. The baffle that prohibits floating solids from leaving the tank (outlet baffle) were also found in satisfactory condition.

The conveyance system was found in "Satisfactory With Concerns Condition."

Liquid leaves the tank through an outlet line and enters the distribution box, which subsequently directs the liquids throughout the absorption area. This portion of the system is considered the conveyance system. Liquid appeared to flow freely through the septic conveyance system at the time of our inspection. The distribution box for the septic system was inspected by camera and was found to be intact, holding water and appeared to be working as designed. The distribution box was not opened with hand tools due to depth. This is a concern. Please note, although we attempted to visually inspect the distribution box by camera scoping, we strongly recommend having the distribution box opened and visually inspected. We cannot guarantee functionality without opening and visually inspecting this component. In order to perform a full visual inspection of the distribution box, excavation would be necessary.

The absorption area was found in "Satisfactory With Concerns Condition."

The liquid is directed through the distribution box into perforated pipes (disposal lines) that run out into the disposal bed. The absorption area was located and probe holes were made. Liquid was found to be well below the disposal line inverts. Although the liquid was noted well below the disposal line inverts, staining was noted in the absorption stone much higher. This is a concern. Due to the staining in the absorption stone as well as the minimal use of the home, we recommend performing a two day hydraulic load test. A load test will determine if the system is draining as designed and if it can dissipate the designed amount of liquid in a 24 hour period. Without performing a load test it is impossible to predict how the system will function with a change in use or occupancy.

Repair Summary

The septic tank should be pumped so conditions below the liquid levels can be evaluated. The distribution box was not opened with hand tools due to depth. This is a concern. Please note, although we attempted to visually inspect the distribution box by camera scoping, we strongly recommend having the distribution box opened and visually inspected. We cannot guarantee functionality without opening and visually inspecting this component. In order to perform a full visual inspection of the distribution box, excavation would be necessary. The absorption system was found to have staining high in the absorption stone and should undergo a two day hydraulic load test. A load test will determine if the system is draining as designed and if it can dissipate the designed amount of liquid in a 24 hour period. Without performing a load test it is impossible to predict how the system will function with a change in use or occupancy.

This Report is Not a Warranty

The company provides no warranty, expressed or implied, including any warranty of the merchantability or fitness for purpose, or any other warranty whatsoever, that the system meets any code or specifications, or will function properly for any period of time.

If you have any questions, please do not hesitate to contact us. Thank you for allowing ASI to meet your inspections needs.

Sincerely,
Advanced Septic Inspections
Certified Inspectors

ONSITE INSPECTION FORM

Inspection Overview

- Preliminary system information
- Inspection of treatment tanks
- Absorption system inspection
- Disposal/conveyance system assessment
- Identification of alternative technology
- requires additional investigation

JOB NUMBER

S17020093

Client Name:

Meghan Simmons

Different From Owner? ☐ Yes ☒ No

Client Address:

Contact Method:

Email _____
Home Phone _____
Work Phone _____

Inspector Name: Robert Decker

Date: April 12, 2017

ISSDS Address (including municipality):

160 Pleasant Valley Road

Titusville, NJ 08560

System 1 of 2 (Septic System)

New Jersey Coordinate:

Block: 52 Lot: 75

Was GPS used? ☐ yes ☒ no

Preliminary Information

Weather: Clear

Last precipitation: Rain > 3 Days

Age of system: More than 25

Type of dwelling?

☒ Residential Number of Bedrooms: 4 please
☐ Commercial

How many systems are being inspected? 2

List commercial activities or high impact hobbies:

None Disclosed

Describe prior repair problems or repair history including soil fracturing or chemical additives. Include dates and explain why the remedial measures were applied to the system (if available):

None Disclosed

Date file review requested with administrative authority:

Is there a site plan or septic map available?

Is the dwelling currently occupied?

If so, how many occupants? 1

If no, date last occupied? _____

If there is a washing machine, is it connected to a separate gray water disposal system?

Is the system 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

Was a file review completed prior to inspection?

YES NO N/A

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Comments:

Treatment Tank				<u>Yes</u>	<u>No</u>
Type of system being inspected?					
☒ Septic Tank ☐ Cesspool ☐ Other Other: _____				☒	☐
☐ Gray water ☐ Multi-compartment: # <u>1</u> Name the material of the system?				☒	☐
☒ Concrete ☐ Block ☐ Steel ☐ Other _____				☐	☒
Approximate Treatment Tank Volume: <u>1000</u> gallons				☒	☐
Evaluate the conditions of the tank below:				☐	☒
	Satisfactory	Unsatisfactory	N/A		
Top and Lids	☒	☐	☐	Main lid opened for inspection?	☒
Inlet Baffle	☒	☐	☐	Liquid level below the tank's inlet invert?	☒
Outlet Baffle	☒	☐	☐	Liquid level below the tank's outlet invert?	☐
Cracks or Leaks	☒	☐	☐	Treatment tank pumped for this inspection?	☐
Sewage Flow from Structure	☒	☐	☐	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 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: <u>8-12</u> inches	☒
				Depth to top of tank access: <u>8-12</u> inches	☐
				Comments:	☒
				Conditions below the liquid levels in the tanks <u>could not be evaluated and require additional investigation.</u>	

Absorption Area:

Name the type of absorption system?

☒ disposal bed ☐ disposal trench
☐ seepage pit ☐ mounded
☐ cesspool ☐ other: _____

Was the absorption system located? ☒ yes ☐ no If no, explain below in comment section.

Are inspection ports present? ☐ yes ☒ no

If yes, how many? _____

Were the inspection ports checked? ☐ yes ☐ no ☒ N/A *All levels must be included in report

Was a separate probe dug to confirm observations in the inspection ports? ☒ yes ☐ no ☐ N/A

Is the area of the absorption system free of sewage odors? ☒ yes ☐ no

Does sewage flow from the treatment tank to the absorption system without flowing back? ☒ yes ☐ no ☐ N/A

Is the area above or near any of the system components free from visible signs of effluent or sewage? ☒ yes ☐ no

Are the areas at or near the inlet invert of any absorption area component free of visible signs of sewage or effluent? ☒ yes ☐ no

Are areas above or near system components free of lush vegetation? ☒ yes ☐ no

If exposed, is the distribution box in satisfactory condition? ☐ yes ☐ no ☐ N/A

If not exposed, explain why not: The distribution box was not opened with hand tools due to excessive

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

Comments

The absorption area was also located and probe holes were made. Liquid was found to be well below the disposal line inverts prior to and after testing. Although the liquid was noted well below the disposal line inverts, staining was noted in the absorption stone much higher. This is a concern. Due to the staining in the absorption stone as well as the minimal use of the home, we recommend performing a two day hydraulic load test. A load test will determine if the system is draining as designed and if it can dissipate the designed amount of liquid in a 24 hour period. Without performing a load test it is impossible to predict how the system will function with a change in use or occupancy.

Sketch of the approximate system location:

See attached plan

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
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?	☐	☐	☒

Summary:	<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 systems?	☐	☒	☐	☐	☐
Condition of the absorption area	☐	☒	☐	☐	☐
Condition of any accessory components	☐	☐	☐	☐	☒

Comments



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295 Princeton Hightstown Rd.
Unit 168
West Windsor, NJ 08550

May 18, 2017

Jessi Benachi

RE: 160 Pleasant Valley Road
Titusville, NJ 08560

BLOCK 52 LOT 75

Dear Jessi Benachi:

As requested, this company performed an inspection of the on lot wastewater system at the above noted address on May 17, 2017. Attached is the report of that inspection which will document our findings. Based on the inspection, the overall system was found in **"Satisfactory Condition."**

The system contains three main components: the treatment tank that traps and treats the solids, the conveyance system which moves the liquid from the treatment tank to the absorption area, and the absorption area where the liquid percolates into the ground.

The treatment tank was found in "Satisfactory Condition."

The 1000 gallon concrete treatment tank was located, opened and inspected. The liquid level in the treatment tank was found to be at the normal operating level. As requested, the treatment tank was pumped for this inspection. No cracks or leaks in the tank were noted at the time of our inspection. The baffle that directs the solids to the base of the tank (inlet baffle) was found in satisfactory condition. The baffle that prohibits floating solids from leaving the tank (outlet baffle) was also found in satisfactory condition.

The conveyance system was found in "Satisfactory Condition."

Liquid leaves the treatment tank through an outlet line and enters the distribution box, which subsequently directs the liquids throughout the absorption area. This portion of the system is considered the conveyance system. Liquid flowed freely through the conveyance system at the time of our inspection. The conveyance line between the treatment tank and distribution box was inspected by camera and was found to be intact and working as designed. The distribution box was opened and found in satisfactory condition.

The absorption area was found in "Satisfactory Condition."

The liquid is directed through the distribution box into perforated pipes (outlet lines) that run out into the absorption area. As requested and due to the minimal use of the home our company was contracted to perform a two day hydraulic load test on the absorption system. On 5/16, the absorption area was located, probe holes were made and a monitoring hole was dug. Liquid was noted 15" below the disposal line inverts prior to testing. Water was run into the system (650 gallons) and was monitored through the distribution box, disposal lines by camera and the probe holes. No backup was noted and the liquid level in the absorption area was 13" below the disposal line inverts after testing on day one. On 5/17, we returned and again ran water into the system and monitored it through the distribution box, disposal lines by camera and the probe holes. Again no backup was noted and the liquid level in the absorption area never elevated above the previous days measurements. The system was able to dissipate 650 gallons of liquid in a 24 hour period as designed.

Repair Summary

The septic system was found to be working as designed and is need of no repairs at this time. With any on lot waste water system, we recommend further monitoring and regular maintenance in the future. Also, please note that the gray water absorption system was found to be saturated and not draining as designed at the time of a previous inspection. As per the township, the gray water can be redirected into the septic system. Contact the Board of Health as well as a septic contractor for re direction options and costs.

This Report is Not a Warranty

The company provides no warranty, expressed or implied, including any warranty of the merchantability or fitness for purpose, or any other warranty whatsoever, that the system meets any code or specifications, or will function properly for any period of time.

If you have any questions, please do not hesitate to contact us. Thank you for allowing ASI to meet your inspections needs.

Sincerely,
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Certified Inspectors



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West Windsor, NJ 08550

April 13, 2017

Meghan Simmons
16 Pleasant Valley Road
Titusville, NJ 08560

RE: 160 Pleasant Valley Road
Titusville NJ 08560
Gray Water system

BLOCK 52 LOT 75

Dear Meghan Simmons:

As requested, this company performed an inspection of the on lot wastewater system at the above noted address on April 12, 2017. Attached is the report of that inspection which will document our findings. Based on the inspection, the overall system was found in **"Unsatisfactory Condition."** Please note that per inspection protocol, if any component of the system is found in "Unsatisfactory Condition" at the time of the inspection, the entire system is considered "Unsatisfactory" until such time as that component is repaired or replaced.

The system contains three main components: the treatment tank that traps and treats the solids, the conveyance system which moves the liquid from the treatment tank to the absorption area, and the absorption area where the liquid percolates into the ground.

The treatment tank was found in "Requires Additional Investigation Condition."

The 500 gallon concrete treatment tank was located, opened and inspected. the liquid level in the tank was found to be at the normal operating level. Due to the saturation in the absorption area pumping of the tank was canceled so a contractor can evaluate the system under the same condition. Conditions below the liquid levels in the tanks could not be evaluated and require additional investigation. No cracks or leaks in the tank were noted at the time of our inspection. The baffle that directs the solids to the base of the tank (inlet baffle) was found in satisfactory condition. The baffle that prohibits floating solids from leaving the tank (outlet baffle) was also found in satisfactory condition.

The conveyance system was found in "Unsatisfactory Condition."

Liquid leaves the treatment tank through an outlet line, which subsequently directs the liquids throughout the absorption area. This portion of the system is considered the conveyance system. Due to saturation in the absorption area, liquid was backing up to the treatment tank. This is an unsatisfactory condition. Liquid does not flow through the system as designed.

The absorption area was found in "Unsatisfactory Condition."

The liquid is directed through the outlet line and into perforated pipes (disposal lines) that run out into the trench. The absorption trench was located and probe holes were made along the trench. Liquid was found to be well above the top of the absorption stone and backing up into the treatment tank. This is an unsatisfactory condition. The absorption system is saturated, not draining as designed and should be repaired or replaced. Contact the Board of Health as well as a septic contractor for repair / replacement options and costs.

Repair Summary

The treatment tank should be pumped so conditions below the liquid level can be evaluated. The absorption system is saturated, not draining as designed and should be repaired or replaced. Contact the Board of Health as well as a septic contractor for repair / replacement options and costs.

This Report is Not a Warranty

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If you have any questions, please do not hesitate to contact us. Thank you for allowing ASI to meet your inspections needs.

Sincerely,

**Advanced Septic Inspections
Certified Inspectors**

ONSITE INSPECTION FORM

Inspection Overview

- Preliminary system information
- Inspection of treatment tanks
- Absorption system inspection
- Disposal/conveyance system assessment
- Identification of alternative technology
- requires additional investigation

JOB NUMBER

Client Name:

Meghan Simmons

Different From Owner? ☐ Yes ☒ No

Client Address:

Contact Method:

Email _____
Home Phone _____
Work Phone _____

Inspector Name: Robert Decker

Date: April 12, 2017

ISSDS Address (including municipality):

160 Pleasant Valley Road

Titusville NJ 08560

System 2 of 2 Gray Water System

New Jersey Coordinate:

Block: 52 **Lot:** 75

Was GPS used? ☐ yes ☒ no

Preliminary information

Weather: Clear

Last precipitation: Rain > 3 Days

Age of system: More than 25

Type of dwelling?

☒ Residential **Number of Bedrooms:** 4 please
☐ Commercial

How many systems are being inspected? 2

List commercial activities or high impact hobbies:

None Disclosed

Describe prior repair problems or repair history including soil fracturing or chemical additives. Include dates and explain why the remedial measures were applied to the system (if available):

None Disclosed

Date file review requested with administrative authority:

Is there a site plan or septic map available?

Is the dwelling currently occupied?

If so, how many occupants? 1

If no, date last occupied?

If there is a washing machine, is it connected to a separate gray water disposal system?

Is the system 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

Was a file review completed prior to inspection?

YES NO N/A

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Comments:

Treatment Tank

Type of system being inspected?

☐ Septic Tank ☐ Cesspool ☐ Other

Other: _____

☒ Gray water ☐ Multi-compartment: # 1

Name the material of the system?

☒ Concrete ☐ Block☐ Steel ☐ Other _____Approximate Treatment Tank Volume: 500 gallons

Evaluate the conditions of the tank below:

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

Main lid opened for inspection?

Liquid level below the tank's inlet invert?

Liquid level below 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 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: 8-12 inchesDepth to top of tank access: 8-12 inches

Comments:

Conditions below the liquid levels in the tanks could not be evaluated and require additional investigation.

Yes No

☒ ☐☒ ☐☐ ☒☐ ☒☒ ☐☒ ☐☒ ☐☐ ☒☐ ☐☐ ☒**Absorption Area:**

Name the type of absorption system?

☐ disposal bed ☒ disposal trench
☐ seepage pit ☐ mounded
☐ cesspool ☐ other: _____Was the absorption system located? ☒ yes ☐ no If no, explain below in comment section.Are inspection ports present? ☐ yes ☒ no

If yes, how many? _____

Were the inspection ports checked? ☐ yes ☐ no ☒ N/A *All levels must be included in reportWas a separate probe dug to confirm observations in the inspection ports? ☒ yes ☐ no ☐ N/AIs the area of the absorption system free of sewage odors? ☒ yes ☐ noDoes 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 ☒ noAre the areas at or near the inlet invert of any absorption area component free of visible signs of sewage or effluent? ☐ yes ☒ noAre areas above or near system components free of lush vegetation? ☒ yes ☐ noIf exposed, is the distribution box in satisfactory condition? ☐ yes ☐ no ☒ N/AIf not exposed, explain why not: the system does not utilize a distribution box for distribution of theIs the area directly over any part of the system free of any evidence of large objects (cars, pools, etc.)? ☒ yes ☐ no**Comments**

The absorption trench was located and probe holes were made along the trench. Liquid was found to be well above the top of the absorption stone and backing up into the treatment tank. This is an unsatisfactory condition. The absorption system is saturated, not draining as designed and should be repaired or replaced. Contact the Board of Health as well as a septic contractor for repair / replacement options and costs.

Sketch of the approximate system location:

See attached plan

Dosing or Pump Tank	Yes	No	N/A
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?	☐	☐	☒

Summary:	Satisfactory	Satisfactory with Concerns	Unsatisfactory	Requires Additional Investigation	N/A
Condition of the treatment tank(s)	☐	☐	☐	☒	☐
Condition of the conveyance and pump systems?	☐	☐	☒	☐	☐
Condition of the absorption area	☐	☐	☒	☐	☐
Condition of any accessory components	☐	☐	☐	☐	☒
Comments					