



Commonwealth of Massachusetts
Title 5 Official Inspection Form
 Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner information is required for every page.

5 Douglas Lane
 Property Address
 Azmi Jafarey and Shua Islam
 Owner's Name
 Andover Ma 01810 7/12/24
 City/Town State Zip Code Date of Inspection

Inspection results must be submitted on this form. Inspection forms may not be altered in any way. Please see completeness checklist at the end of the form.

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A. Inspector Information

Dean Dynan
 Name of Inspector
 Dean Dynan
 Company Name
 2 Suntaug Street
 Company Address
 Lynnfield Ma 01940
 City/Town State Zip Code
 508-726-9935 SI12837
 Telephone Number License Number

B. Certification

I certify that: I am a DEP approved system inspector in full compliance with Section 15.340 of Title 5 (310 CMR 15.000); I have personally inspected the sewage disposal system at the property address listed above; the information reported below is true, accurate and complete as of the time of my inspection; and the inspection was performed based on my training and experience in the proper function and maintenance of on-site sewage disposal systems. After conducting this inspection I have determined that the system:

1. Passes
2. Conditionally Passes
3. Needs Further Evaluation by the Local Approving Authority
4. Fails

Dean P. O'Connell 7/19/24
 Inspector's Signature Date

The system inspector shall submit a copy of this inspection report to the Approving Authority (Board of Health or DEP) within 30 days of completing this inspection. If the system has a design flow of 10,000 gpd or greater, the inspector and the system owner shall submit the report to the appropriate regional office of the DEP. The original form should be sent to the system owner and copies sent to the buyer, if applicable, and the approving authority.

Please note: This report only describes conditions at the time of inspection and under the conditions of use at that time. This inspection does not address how the system will perform in the future under the same or different conditions of use.



Commonwealth of Massachusetts
Title 5 Official Inspection Form
 Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner information is required for every page.

5 Douglas Lane
 Property Address
 Azmi Jafarey and Shua Islam
 Owner's Name
 Andover Ma 01810 7/12/24
 City/Town State Zip Code Date of Inspection

C. Inspection Summary

Inspection Summary: Complete 1, 2, 3, or 5 and all of 4 and 6.

1) System Passes:

- I have not found any information which indicates that any of the failure criteria described in 310 CMR 15.303 or in 310 CMR 15.304 exist. Any failure criteria not evaluated are indicated below.

Comments:

4 bedroom single family dwelling with pipe in stone trenches

2) System Conditionally Passes:

- One or more system components as described in the "Conditional Pass" section need to be replaced or repaired. The system, upon completion of the replacement or repair, as approved by the Board of Health, will pass.

Check the box for "yes", "no" or "not determined" (Y, N, ND) for the following statements. If "not determined," please explain.

The septic tank is metal and over 20 years old* or the septic tank (whether metal or not) is structurally unsound, exhibits substantial infiltration or exfiltration or tank failure is imminent. System will pass inspection if the existing tank is replaced with a complying septic tank as approved by the Board of Health.

* A metal septic tank will pass inspection if it is structurally sound, not leaking and if a Certificate of Compliance indicating that the tank is less than 20 years old is available.

- Y N ND (Explain below):



Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

5 Douglas Lane

Property Address

Azmi Jafarey and Shua Islam

Owner's Name

Andover

Ma

01810

7/12/24

City/Town

State

Zip Code

Date of Inspection

Owner information is required for every page.

C. Inspection Summary (cont.)

4) System Failure Criteria Applicable to All Systems: (cont.)

Yes No

Static liquid level in the distribution box above outlet invert due to an overloaded or clogged SAS or cesspool

Liquid depth in cesspool is less than 6" below invert or available volume is less than 1/2 day flow

Required pumping more than 4 times in the last year NOT due to clogged or obstructed pipe(s). Number of times pumped: _____.

Any portion of the SAS, cesspool or privy is below high ground water elevation.

Any portion of cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply.

Any portion of a cesspool or privy is within a Zone 1 of a public water supply well.

Any portion of a cesspool or privy is within 50 feet of a private water supply well.

Any portion of a cesspool or privy is less than 100 feet but greater than 50 feet from a private water supply well with no acceptable water quality analysis. [This system passes if the well water analysis, performed at a DEP certified laboratory, for fecal coliform bacteria indicates absent and the presence of ammonia nitrogen and nitrate nitrogen is equal to or less than 5 ppm, provided that no other failure criteria are triggered. A copy of the analysis and chain of custody must be attached to this form.]

The system is a cesspool serving a facility with a design flow of 2000 gpd-10,000 gpd.

The system fails. I have determined that one or more of the above failure criteria exist as described in 310 CMR 15.303, therefore the system fails. The system owner should contact the Board of Health to determine what will be necessary to correct the failure.

5) Large Systems: To be considered a large system the system must serve a facility with a design flow of 10,000 gpd to 15,000 gpd.

For large systems, you must indicate either "yes" or "no" to each of the following, in addition to the questions in Section C.4.

Yes No

the system is within 400 feet of a surface drinking water supply

the system is within 200 feet of a tributary to a surface drinking water supply

the system is located in a nitrogen sensitive area (Interim Wellhead Protection Area – IWPA) or a mapped Zone II of a public water supply well



Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

5 Douglas Lane

Property Address

Azmi Jafarey and Shua Islam

Owner's Name

Andover

City/Town

Ma

State

01810

Zip Code

7/12/24

Date of Inspection

Owner information is required for every page.

C. Inspection Summary (cont.)

If you have answered "yes" to any question in Section C.5 the system is considered a significant threat, or answered "yes" to any question in Section C.4 above the large system has failed. The owner or operator of any large system considered a significant threat under Section C.5 or failed under Section C.4 shall upgrade the system in accordance with 310 CMR 15.304. The system owner should contact the appropriate regional office of the Department.

6. You must indicate "yes" or "no" for each of the following for all inspections:

Yes No

- Pumping information was provided by the owner, occupant, or Board of Health
- Were any of the system components pumped out in the previous two weeks?
- Has the system received normal flows in the previous two week period?
- Have large volumes of water been introduced to the system recently or as part of this inspection?
- Were as built plans of the system obtained and examined? (If they were not available note as N/A)
- Was the facility or dwelling inspected for signs of sewage back up?
- Was the site inspected for signs of break out?
- Were all system components, excluding the SAS, located on site?
- Were the septic tank manholes uncovered, opened, and the interior of the tank inspected for the condition of the baffles or tees, material of construction, dimensions, depth of liquid, depth of sludge and depth of scum?
- Was the facility owner (and occupants if different from owner) provided with information on the proper maintenance of subsurface sewage disposal systems? The **size and location of the Soil Absorption System (SAS)** on the site has been determined based on:
- Existing information. For example, a plan at the Board of Health.
- Determined in the field (if any of the failure criteria related to Part C is at issue approximation of distance is unacceptable) [310 CMR 15.302(5)]



Commonwealth of Massachusetts
Title 5 Official Inspection Form
 Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner information is required for every page.

5 Douglas Lane
 Property Address
 Azmi Jafarey and Shua Islam
 Owner's Name
 Andover Ma 01810 7/12/24
 City/Town State Zip Code Date of Inspection

D. System Information

1. Residential Flow Conditions:

Number of bedrooms (design): 4 Number of bedrooms (actual): 4

DESIGN flow based on 310 CMR 15.203 (for example: 110 gpd x # of bedrooms): 440

Description:

4 Bedroom system with 1500 gallon tank and pipe in stone trenches

Number of current residents: 2

Does residence have a garbage grinder? Yes No

Does residence have a water treatment unit? Yes No

If yes, discharges to: _____

Is laundry on a separate sewage system? (Include laundry system inspection information in this report.) Yes No

Laundry system inspected? Yes No

Seasonal use? Yes No

Water meter readings, if available (last 2 years usage (gpd)): < 200 gpd ave

Detail:

town water see attached

Sump pump? Yes No

Last date of occupancy: current
Date



Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner information is required for every page.

5 Douglas Lane

Property Address

Azmi Jafarey and Shua Islam

Owner's Name

Andover

City/Town

Ma

State

01810

Zip Code

7/12/24

Date of Inspection

D. System Information (cont.)

2. Commercial/Industrial Flow Conditions:

Type of Establishment: _____

Design flow (based on 310 CMR 15.203): _____

Gallons per day (gpd)

Basis of design flow (seats/persons/sq.ft., etc.): _____

Grease trap present?

Yes No

Water treatment unit present?

Yes No

If yes, discharges to: _____

Industrial waste holding tank present?

Yes No

Non-sanitary waste discharged to the Title 5 system?

Yes No

Water meter readings, if available: _____

Last date of occupancy/use: _____

Date

Other (describe below):

3. Pumping Records:

Source of information:

Homeowner / Board of Health
2022 per homeowner

Was system pumped as part of the inspection?

Yes No

If yes, volume pumped: _____

gallons

How was quantity pumped determined? _____

Reason for pumping: _____



Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

5 Douglas Lane

Property Address

Azmi Jafarey and Shua Islam

Owner's Name

Andover

Ma

01810

7/12/24

City/Town

State

Zip Code

Date of Inspection

Owner information is required for every page.

D. System Information (cont.)

4. Type of System:

- Septic tank, distribution box, soil absorption system
- Single cesspool
- Overflow cesspool
- Privy
- Shared system (yes or no) (if yes, attach previous inspection records, if any)
- Innovative/Alternative technology. Attach a copy of the current operation and maintenance contract (to be obtained from system owner) and a copy of latest inspection of the I/A system by system operator under contract
- Tight tank. Attach a copy of the DEP approval.
- Other (describe):

Approximate age of all components, date installed (if known) and source of information:
system installed 2000

Were sewage odors detected when arriving at the site?

Yes No

5. Building Sewer (locate on site plan):

Depth below grade:

16"
feet

Material of construction:

cast iron 40 PVC other (explain):

Distance from private water supply well or suction line:

feet

Comments (on condition of joints, venting, evidence of leakage, etc.):

sewer pipe in good condition / no evidence of leakage



Commonwealth of Massachusetts
Title 5 Official Inspection Form
 Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner information is required for every page.

5 Douglas Lane
 Property Address
 Azmi Jafarey and Shua Islam
 Owner's Name
 Andover Ma 01810 7/12/24
 City/Town State Zip Code Date of Inspection

D. System Information (cont.)

6. **Septic Tank** (locate on site plan):

Depth below grade: 12"
 feet

Material of construction:

concrete metal fiberglass polyethylene other (explain)

1500 gallon concrete septic tank with cover at 12" grade

If tank is metal, list age: _____
 years

Is age confirmed by a Certificate of Compliance? (attach a copy of certificate) Yes No

Dimensions: 10'X 5' X 5'8"

Sludge depth: 6"

Distance from top of sludge to bottom of outlet tee or baffle 26"

Scum thickness 0-2"

Distance from top of scum to top of outlet tee or baffle 6"

Distance from bottom of scum to bottom of outlet tee or baffle 14"

How were dimensions determined? in field with measure stick and tape

Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels as related to outlet invert, evidence of leakage, etc.):

concrete septic tank with inlet and outlet PVC T / Tank in working order with separation from inlet to outlet / no evidence of leakage / tank in good condition

Liquid at bottom of outlet invert
 recommend pumping every two to three years depending on usage and number of occupants



Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

5 Douglas Lane
Property Address

Azmi Jafarey and Shua Islam
Owner's Name

Andover Ma 01810 7/12/24
City/Town State Zip Code Date of Inspection

Owner information is required for every page.

D. System Information (cont.)

7. Grease Trap (locate on site plan):

Depth below grade: _____ feet

Material of construction:

concrete metal fiberglass polyethylene other (explain):

Dimensions: _____

Scum thickness _____

Distance from top of scum to top of outlet tee or baffle _____

Distance from bottom of scum to bottom of outlet tee or baffle _____

Date of last pumping: _____ Date

Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels as related to outlet invert, evidence of leakage, etc.):

8. Tight or Holding Tank (tank must be pumped at time of inspection) (locate on site plan):

Depth below grade: _____

Material of construction:

concrete metal fiberglass polyethylene other (explain):

Dimensions: _____

Capacity: _____ gallons

Design Flow: _____ gallons per day



Commonwealth of Massachusetts
Title 5 Official Inspection Form
 Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner information is required for every page.

5 Douglas Lane
 Property Address
 Azmi Jafarey and Shua Islam
 Owner's Name
 Andover Ma 01810 7/12/24
 City/Town State Zip Code Date of Inspection

D. System Information (cont.)

8. **Tight or Holding Tank (cont.)**

Alarm present: Yes No
 Alarm level: _____ Alarm in working order: Yes No
 Date of last pumping: _____ Date _____
 Comments (condition of alarm and float switches, etc.):

* Attach copy of current pumping contract (required). Is copy attached? Yes No

9. **Distribution Box (if present must be opened) (locate on site plan):**

Depth of liquid level above outlet invert 0
 Comments (note if box is level and distribution to outlets equal, any evidence of solids carryover, any evidence of leakage into or out of box, etc.):

16"X16" concrete HD D box in fair condition
 no leakage into or out of box / some solids carryover / D box is level
 3 outlet pipes with levelers
 D box is 24" below grade



Commonwealth of Massachusetts
Title 5 Official Inspection Form
 Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

5 Douglas Lane
 Property Address

Azmi Jafarey and Shua Islam
 Owner's Name

Andover Ma 01810 7/12/24
 City/Town State Zip Code Date of Inspection

Owner information is required for every page.

D. System Information (cont.)

10. **Pump Chamber** (locate on site plan):

Pumps in working order: Yes No*

Alarms in working order: Yes No*

Comments (note condition of pump chamber, condition of pumps and appurtenances, etc.):

* If pumps or alarms are not in working order, system is a conditional pass.

11. **Soil Absorption System (SAS)** (locate on site plan, excavation not required):

If SAS not located, explain why:

Type:

- leaching pits number: _____
- leaching chambers number: _____
- leaching galleries number: _____
- leaching trenches number, length: 3 @ 45' +/-
- leaching fields number, dimensions: _____
- overflow cesspool number: _____
- innovative/alternative system

Type/name of technology: _____



Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

5 Douglas Lane

Property Address

Azmi Jafarey and Shua Islam

Owner's Name

Andover

Ma

01810

7/12/24

City/Town

State

Zip Code

Date of Inspection

Owner information is required for every page.

D. System Information (cont.)

11. Soil Absorption System (SAS) (cont.)

Comments (note condition of soil, signs of hydraulic failure, level of ponding, damp soil, condition of vegetation, etc.):

Drainfield found in green lawn area / soils in good condition / no signs of hydraulic failure / no ponding/ no damp soil/ grass is uniform in good condition

Drain field is pipe in stone trenches

12. Cesspools (cesspool must be pumped as part of inspection) (locate on site plan):

Number and configuration

Depth – top of liquid to inlet invert

Depth of solids layer

Depth of scum layer

Dimensions of cesspool

Materials of construction

Indication of groundwater inflow

Yes No

Comments (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.):



Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

5 Douglas Lane
Property Address

Azmi Jafarey and Shua Islam
Owner's Name

Andover	Ma	01810	7/12/24
City/Town	State	Zip Code	Date of Inspection

Owner information is required for every page.

D. System Information (cont.)

13. **Privy** (locate on site plan):

Materials of construction: _____

Dimensions _____

Depth of solids _____

Comments (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.):



Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

5 Douglas Lane

Property Address

Azmi Jafarey and Shua Islam

Owner's Name

Andover

Ma

01810

7/12/24

City/Town

State

Zip Code

Date of Inspection

Owner information is required for every page.

D. System Information (cont.)

14. Sketch Of Sewage Disposal System:

Provide a view of the sewage disposal system, including ties to at least two permanent reference landmarks or benchmarks. Locate all wells within 100 feet. Locate where public water supply enters the building. Check one of the boxes below:

- hand-sketch in the area below
- drawing attached separately



Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

5 Douglas Lane

Property Address

Azmi Jafarey and Shua Islam

Owner's Name

Andover

City/Town

Ma

State

01810

Zip Code

7/12/24

Date of Inspection

Owner information is required for every page.

E. Report Completeness Checklist

Complete all applicable sections of this form inclusive of:

A. Inspector Information: Complete all fields in this section.

B. Certification: Signed & Dated and 1, 2, 3, or 4 checked

C. Inspection Summary:

1, 2, 3, or 5 completed as appropriate

4 (Failure Criteria) and 6 (Checklist) completed

D. System Information:

For 8: Tight/Holding Tank – Pumping contract attached

For 14: Sketch of Sewage Disposal System drawn on pg. 16 or attached

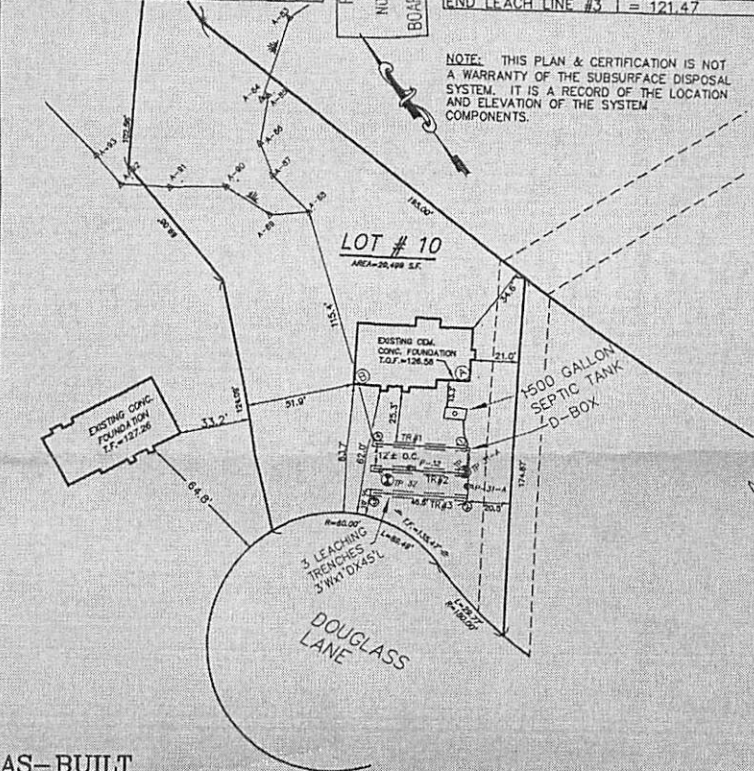
For 15: Explanation of estimated depth to high groundwater included

BUILDING TIES		
	A	B
BUILDING CORNER		
SEPTIC TANK	17.4'	51.7'
PUMP TANK		
DIST. BOX	34.6'	65.3'
CORN. LEACH FIELD #1	34.3'	64.5'
CORN. LEACH FIELD #2	58.5'	79.6'
CORN. LEACH FIELD #3	71.7'	55.0'
CORN. LEACH FIELD #4	54'	32'

RECEIVED
NOV 24 2000
BOARD OF HEALTH

INVERT ELEVATIONS	
4" PIPE @ FDTN.	= 123.26
SEPTIC TANK IN	= 123.03
SEPTIC TANK OUT	= 122.78
PUMP TANK IN	
PUMP TANK OUT	
DIST. BOX IN	= 121.99
DIST. BOX OUT	= 121.82
END LEACH LINE #1	= 121.47
END LEACH LINE #2	= 121.47
END LEACH LINE #3	= 121.47

NOTE: THIS PLAN & CERTIFICATION IS NOT A WARRANTY OF THE SUBSURFACE DISPOSAL SYSTEM. IT IS A RECORD OF THE LOCATION AND ELEVATION OF THE SYSTEM COMPONENTS.



**AS-BUILT
OF
SUBSURFACE DISPOSAL SYSTEM**

LOCATED IN
ANDOVER, MA.

AS PREPARED FOR
DOUGLAS CROSSING L.L.C.

28 MORGAN DRIVE
METHUEN, MASS. 01844

SCALE: 1"=40'
DATE: NOVEMBER 20, 2000

SUBDIVISION LOT #10
#5 DOUGLAS LANE, TOWN MAP# 31, TOWN LOT# 1T

MERRIMACK ENGINEERING SERVICES

PROFESSIONAL ENGINEERS • LAND SURVEYORS • PLANNERS

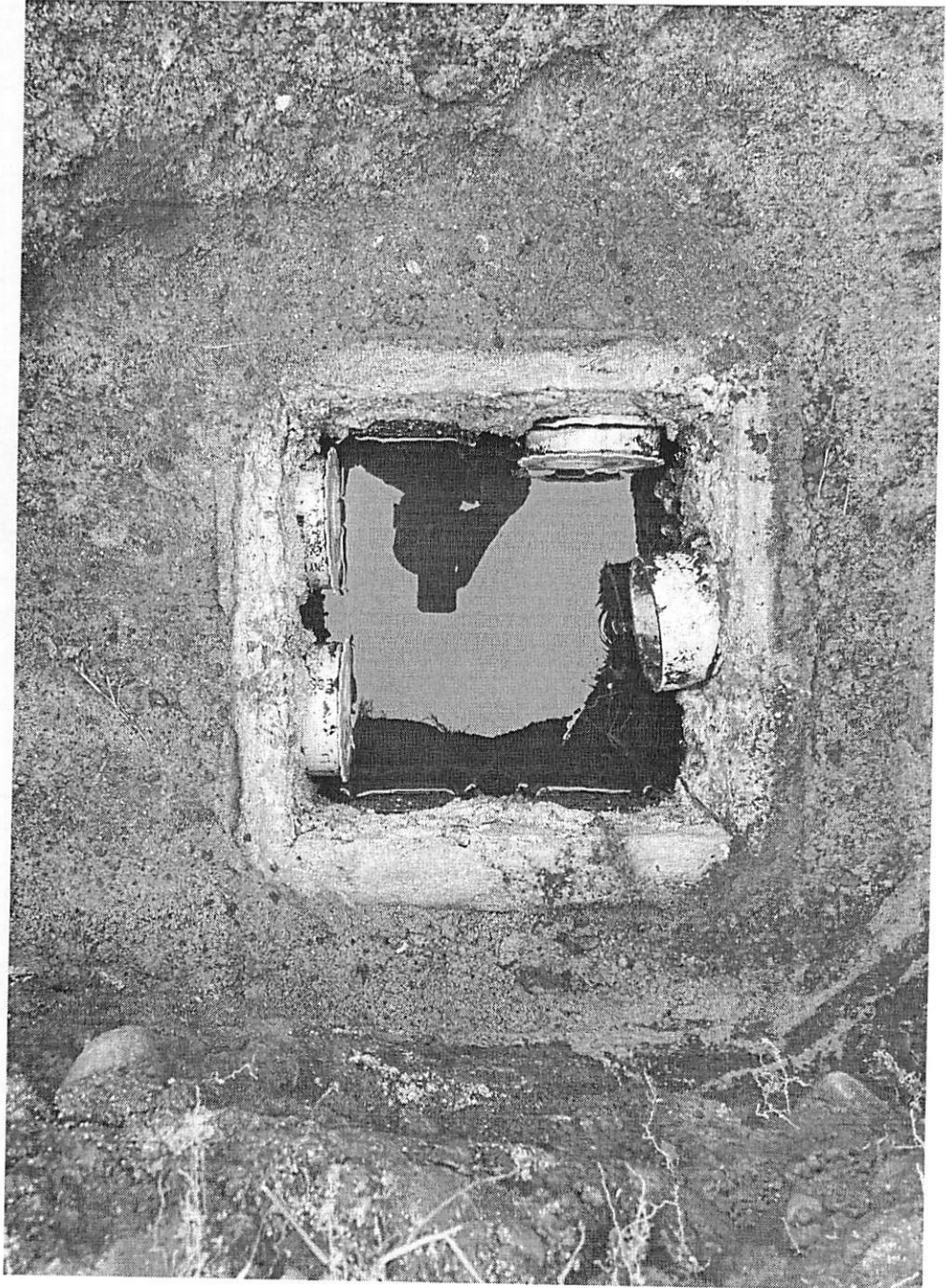
66 PARK STREET • ANDOVER, MASSACHUSETTS 01810 • TEL (978) 475-3555 • FAX (978) 475-1448



Handwritten: 5 Douglas Ln

R14\3111-06\SEP-ASBUILT\3111-A10.DWG





Customer/Location History

Account No: 10868 Name: JAFAREY, AZMI Location No: 1-60781D Location Address: 5 DOUGLASS LN Print

Transactions | Deposits | Usage | Acct Summary | Work Orders | Liens | Balances | Issues | TVR | E-mail

Utility	Tran Date	Prior Read	Current Date	Current Read	Usage	
WATER	10/20/2020	259185	09/29/2020	274080	14895	1 ^
WATER	01/20/2021	274080	12/28/2020	280290	6210	1
WATER	04/16/2021	280290	03/30/2021	282590	2300	1
WATER	07/23/2021	282590	06/28/2021	288395	5805	1
WATER	10/29/2021	288395	10/04/2021	297035	8640	1
WATER	01/27/2022	297035	01/03/2022	299100	2065	1
WATER	04/28/2022	299100	04/01/2022	301535	2435	1
WATER	07/28/2022	301535	06/27/2022	307160	5625	1
WATER	10/31/2022	307160	09/30/2022	318020	10860	1
WATER	02/06/2023	318020	01/04/2023	322515	4495	1
WATER	04/26/2023	322515	03/30/2023	324160	1645	1
WATER	07/31/2023	324160	06/30/2023	331860	7700	1
WATER	10/31/2023	331860	10/02/2023	340080	8220	1
WATER	01/29/2024	340080	01/02/2024	346685	6605	1
WATER	04/30/2024	346685	04/01/2024	348570	1885	1 v

Display only usage-based Rates Add Usage History Adjust Selected View Usage Chart

Service: ALL SERVICES Transaction Date: // through 12/31/9999

Return

Caring for your Septic System: A Reference Guide for Homeowners

Caring for Your Septic System (Conventional Septic System, Innovative/Alternative (I/A) System, or Cesspool)

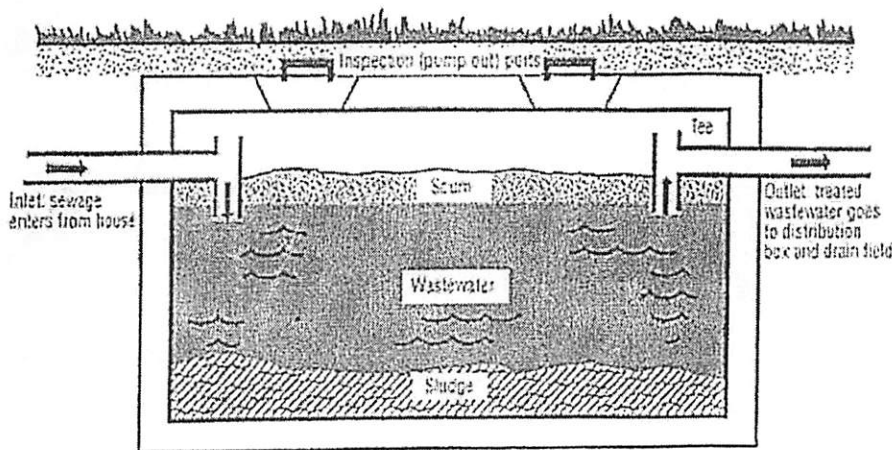
The accumulated solids in the bottom of the septic tank should be pumped out every three years to prolong the life of your system. Septic systems must be maintained regularly to stay working.

Neglect or abuse of your system can cause it to fail. Failing systems can

- cause a serious health threat to your family and neighbors,
- degrade the environment, especially lakes, streams and groundwater,
- reduce the value of your property,
- be very expensive to repair,
- and, put thousand of water supply users at risk if you live in a public water supply watershed and fail to maintain your system.

Be alert to these warning signs of a failing system:

- sewage surfacing over the drainfield (especially after storms),
- sewage back-ups in the house,
- lush, green growth over the drainfield,
- slow draining toilets or drains,
- sewage odors



Tips to Avoid Trouble

- DO have your tank pumped out and system inspected every 3 to 5 years by a licensed septic contractor (listed in the yellow pages).

- **DO** keep a record of pumping, inspections, and other maintenance. Use the back page of this brochure to record maintenance dates.
- **DO** practice water conservation. Repair dripping faucets and leaking toilets, run washing machines and dishwashers only when full, avoid long showers, and use water-saving features in faucets, shower heads and toilets.
- **DO** learn the location of your septic system and drainfield. Keep a sketch of it handy for service visits. If your system has a flow diversion valve, learn its location, and turn it once a year. Flow diverters can add many years to the life of your system.
- **DO** divert roof drains and surface water from driveways and hillsides away from the septic system. Keep sump pumps and house footing drains away from the septic system as well.
- **DO** take leftover hazardous household chemicals to your approved hazardous waste collection center for disposal. Use bleach, disinfectants, and drain and toilet bowl cleaners sparingly and in accordance with product labels.
- **DON'T** allow anyone to drive or park over any part of the system. The area over the drainfield should be left undisturbed with only a mowed grass cover. Roots from nearby trees or shrubs may clog and damage your drain lines.
- **DON'T** make or allow repairs to your septic system without obtaining the required health department permit. Use professional licensed contractors when needed.
- **DON'T** use commercial septic tank additives. These products usually do not help and some may hurt your system in the long run.
- **DON'T** use your toilet as a trash can by dumping nondegradables down your toilet or drains. Also, don't poison your septic system and the groundwater by pouring harmful chemicals down the drain. They can kill the beneficial bacteria that treat your wastewater. Keep the following materials out of your system:

Nondegradables

grease, disposable diapers, plastics, etc.

Poisons

gasoline, oil, paint, paint thinner, pesticides, antifreeze, etc.

Septic System Explained

Septic systems are individual wastewater treatment systems (conventional septic systems, innovative/alternative (I/A) systems, or cesspools) that use the soil to treat small wastewater flows, usually from individual homes. They are typically used in rural or large lot settings where centralized wastewater treatment is impractical.

There are many types of septic systems in use today. While all systems are individually designed for each site, most systems are based on the same principles.

Your septic system treats your household wastewater by temporarily holding it in the septic tank where heavy solids and lighter scum are allowed to separate from the wastewater. This separation process is known as primary treatment. The solids stored in the tank are decomposed by bacteria and later removed, along with the lighter scum, by a professional septic tank pumper. After partially treated wastewater leaves the tank, it flows into a distribution box, which separates this flow evenly into a network of drainfield trenches. Drainage holes at the bottom of each line allow the wastewater to drain into gravel trenches for temporary storage. This effluent then slowly seeps into the subsurface soil where it is further treated and purified (secondary treatment). A properly functioning septic system does not pollute the groundwater.