

10 FLAT HILLS





Commonwealth of Massachusetts

# Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

10 FLAT HILLS ROAD

Property Address

JOAN MIKALSON

Owner's Name

AMHERST

City/Town

MA.  
State

01002  
Zip Code

JUNE 11, 2007  
Date of Inspection

Owner information is required for every page.

## B. Certification (cont.)

Inspection Summary: Check A,B,C,D or E / *always* complete all of Section D

### A) 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:

### B) 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.

Answer yes, no or not determined (Y, N, ND) in the  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.

ND Explain:

- Observation of sewage backup or break out or high static water level in the distribution box due to broken or obstructed pipe(s) or due to a broken, settled or uneven distribution box. System will pass inspection if (with approval of Board of Health):

broken pipe(s) are replaced

obstruction is removed



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6/11/07

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Inspection results must be submitted on this form. Inspection forms may not be altered in any way.

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



## A. General Information

1. Inspector:

PHILIP J. PASIECNIK

Name of Inspector

GREG'S WASTEWATER REMOVAL

Company Name

239A GREENFIELD ROAD

Company Address

SOUTH DEERFIELD

City/Town

413-665-3989

Telephone Number

MA.

State

01373

Zip Code

N/A

License Number

## B. Certification

I certify that I have personally inspected the sewage disposal system at this address and that the information reported below is true, accurate and complete as of the time of the inspection. The inspection was performed based on my training and experience in the proper function and maintenance of on site sewage disposal systems. I am a DEP approved system inspector pursuant to Section 15.340 of Title 5 (310 CMR 15.000). The system:

- Passes                       Conditionally Passes                       Fails
- Needs Further Evaluation by the Local Approving Authority

*Philip J. Pasiecznik*  
Inspector's Signature

JUNE 12, 2007

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 is a shared system or 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 should be sent to the system owner and copies sent to the buyer, if applicable, and the approving authority.

\*\*\*\*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.



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## B. Certification (cont.)

### C) Further Evaluation is Required by the Board of Health (cont.):

- The system has a septic tank and SAS and the SAS is less than 100 feet but 50 feet or more from a private water supply well\*\*

Method used to determine distance: \_\_\_\_\_

\*\* This system passes if the well water analysis, performed at a DEP certified laboratory, for 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 must be attached to this form.

3. Other:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### D) System Failure Criteria Applicable to All Systems:

You must indicate "Yes" or "No" to each of the following for all inspections:

- | Yes                      | No                                  |  |
|--------------------------|-------------------------------------|--|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Backup of sewage into facility or system component due to overloaded or clogged SAS or cesspool                                    |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Discharge or ponding of effluent to the surface of the ground or surface waters due to an overloaded or clogged SAS or cesspool    |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Static liquid level in the distribution box above outlet invert due to an overloaded or clogged SAS or cesspool                    |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Liquid depth in cesspool is less than 6" below invert or available volume is less than 1/2 day flow                                |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Required pumping more than 4 times in the last year <b>NOT</b> due to clogged or obstructed pipe(s). Number of times pumped: _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Any portion of the SAS, cesspool or privy is below high ground water elevation.  |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Any portion of cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply.              |



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## B. Certification (cont.)

### B) System Conditionally Passes (cont.):

- distribution box is leveled or replaced

ND Explain:

- The system required pumping more than 4 times a year due to broken or obstructed pipe(s). The system will pass inspection if (with approval of the Board of Health):

- broken pipe(s) are replaced

- obstruction is removed

ND Explain:

### C) Further Evaluation is Required by the Board of Health:

- Conditions exist which require further evaluation by the Board of Health in order to determine if the system is failing to protect public health, safety or the environment.

**1. System will pass unless Board of Health determines in accordance with 310 CMR 15.303(1)(b) that the system is not functioning in a manner which will protect public health, safety and the environment:**

- Cesspool or privy is within 50 feet of a surface water

- Cesspool or privy is within 50 feet of a bordering vegetated wetland or a salt marsh

**2. System will fail unless the Board of Health (and Public Water Supplier, if any) determines that the system is functioning in a manner that protects the public health, safety and environment:**

- The system has a septic tank and soil absorption system (SAS) and the SAS is within 100 feet of a surface water supply or tributary to a surface water supply.

- The system has a septic tank and SAS and the SAS is within a Zone 1 of a public water supply.

- The system has a septic tank and SAS and the SAS is within 50 feet of a private water supply well.



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## C. Checklist

Check if the following have been done. You **must** indicate "yes" or "no" as to each of the following:

- | Yes                                 | No                                  |   |
|-------------------------------------|-------------------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Pumping information was provided by the owner, occupant, or Board of Health   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Were any of the system components pumped out in the previous two weeks?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Has the system received normal flows in the previous two week period?   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Have large volumes of water been introduced to the system recently or as part of this inspection?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Were as built plans of the system obtained and examined? (If they were not available note as N/A)   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Was the facility or dwelling inspected for signs of sewage back up?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Was the site inspected for signs of break out?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Were all system components, excluding the SAS, located on site?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 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? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 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:

- |                                     |                                     |  |
|-------------------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Existing information. For example, a plan at the Board of Health.  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 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)] |





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## B. Certification (cont.)

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

- | Yes                      | No                                  |   |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Any portion of a cesspool or privy is within a Zone 1 of a public well.   |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Any portion of a cesspool or privy is within 50 feet of a private water supply well.  |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 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. <b>[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.]</b> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | The system is a cesspool serving a facility with a design flow of 2000gpd-10,000gpd.  |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <b>The system fails.</b> 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.   |

### E) 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 D.

- | Yes                      | No                       |  |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | the system is within 400 feet of a surface drinking water supply   |
| <input type="checkbox"/> | <input type="checkbox"/> | the system is within 200 feet of a tributary to a surface drinking water supply  |
| <input type="checkbox"/> | <input type="checkbox"/> | 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 |

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





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## D. System Information (cont.)

### General Information

#### Pumping Records:

Source of information:

SYSTEM SEPTIC TANK WAS LAST PUMPED APPROX. 4 YEARS AGO PER OWNER

Was system pumped as part of the inspection?

Yes  No

If yes, volume pumped:

1000  
gallons

How was quantity pumped determined?

TANK DIMENSIONS

Reason for pumping:

TANK INSPECTION AND SOLIDS REMOVAL

#### 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)
- Tight tank. Attach a copy of the DEP approval.
- Other (describe):

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

8 YEARS OLD / 8/28/1998 / AS BUILT

Were sewage odors detected when arriving at the site?

Yes  No



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**D. System Information**

**Residential Flow Conditions:**

Number of bedrooms (design): 3 Number of bedrooms (actual): 3

DESIGN flow based on 310 CMR 15.203 (for example: 110 gpd x # of bedrooms): 330 G.P.D.

Number of current residents: 2

Does residence have a garbage grinder?  Yes  No

Is laundry on a separate sewage system? [if **yes** separate inspection required]  Yes  No

Laundry system inspected?  Yes  No

Seasonal use?  Yes  No

Water meter readings, if available (last 2 years usage (gpd)): 132,255 GALS. = 181 G.P.D.

Sump pump?  Yes  No

Last date of occupancy: CURRENTLY OCCUPIED

**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

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): \_\_\_\_\_



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## D. System Information (cont.)

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

THE SEPTIC TANK SHOULD BE PUMPED EVERY TWO YEARS. CAST IN PLACE CONCRETE INLET AND OUTLET BAFFLES WERE IN GOOD CONDITION AND EXTEND 13" AND 15" BELOW THE FLOW LINE. STRUCTURAL INTEGRITY OF THE SEPTIC TANK WAS GOOD. THE LIQUID LEVEL WAS AT THE OUTLET INVERT. NO LEAKAGE WAS EVIDENT AT THIS TIME.

### 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.):

### 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):



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## D. System Information (cont.)

**Building Sewer** (locate on site plan):

Depth below grade:

1.5  
feet

Material of construction:

cast iron       40 PVC       other (explain):

Distance from private water supply well or suction line:

TOWN WATER  
feet

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

ALL VISIBLE JOINTS WERE IN GOOD CONDITION. VENTING WAS VISIBLE OUTSIDE THE DWELLING ON THE ROOF. NO LEAKAGE WAS EVIDENT AT THIS TIME.

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

Depth below grade:

1  
feet

Material of construction:

concrete       metal       fiberglass       polyethylene       other (explain)

If tank is metal, list age:

years

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

Dimensions:

8'6"Lx4'10"Wx5'6"D

Sludge depth:

10"

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

24"

Scum thickness

12"

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

8"

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

3"

How were dimensions determined?

MEASURED



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**D. System Information (cont.)**

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

**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: 2 - 45' L x 3' W
- leaching fields number, dimensions: \_\_\_\_\_
- overflow cesspool number: \_\_\_\_\_
- innovative/alternative system

Type/name of technology: \_\_\_\_\_

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

**THE SOIL WAS SANDY GRAVEL WITH NO CLOGGING EVIDENT. NO SIGNS OF HYDRAULIC FAILURE OR PONDING TO THE SURFACE. THE SOIL WASN'T DAMP OVER THE TRENCHES. VEGETATION WAS MOWED GRASS WHICH WAS UNIFORM IN GROWTH OVER TRENCHES.**



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**D. System Information (cont.)**

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

Dimensions: \_\_\_\_\_

Capacity: \_\_\_\_\_ gallons

Design Flow: \_\_\_\_\_ gallons per day

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

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

Depth of liquid level above outlet invert NOT ABOVE

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.):

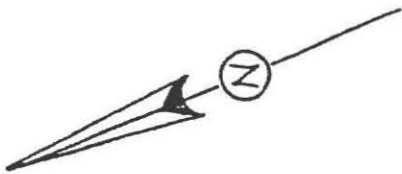
**BOX WAS LEVEL AND DISTRIBUTION WAS EQUAL TO BOTH OUTLET PIPES. SOME SOLIDS CARRYOVER WAS IN THE BOX WHEN OPENED FOR INSPECTION. NO LEAKAGE WAS EVIDENT INTO OR OUT OF THE BOX. BOX COVER WAS 18" BELOW GRADE.**

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

Pumps in working order:  Yes  No

Alarms in working order:  Yes  No

# EXHIBIT "A"



FLAT HILLS ROAD

DRIVEWAY

EXISTING THREE BEDROOM DWELLING # 10

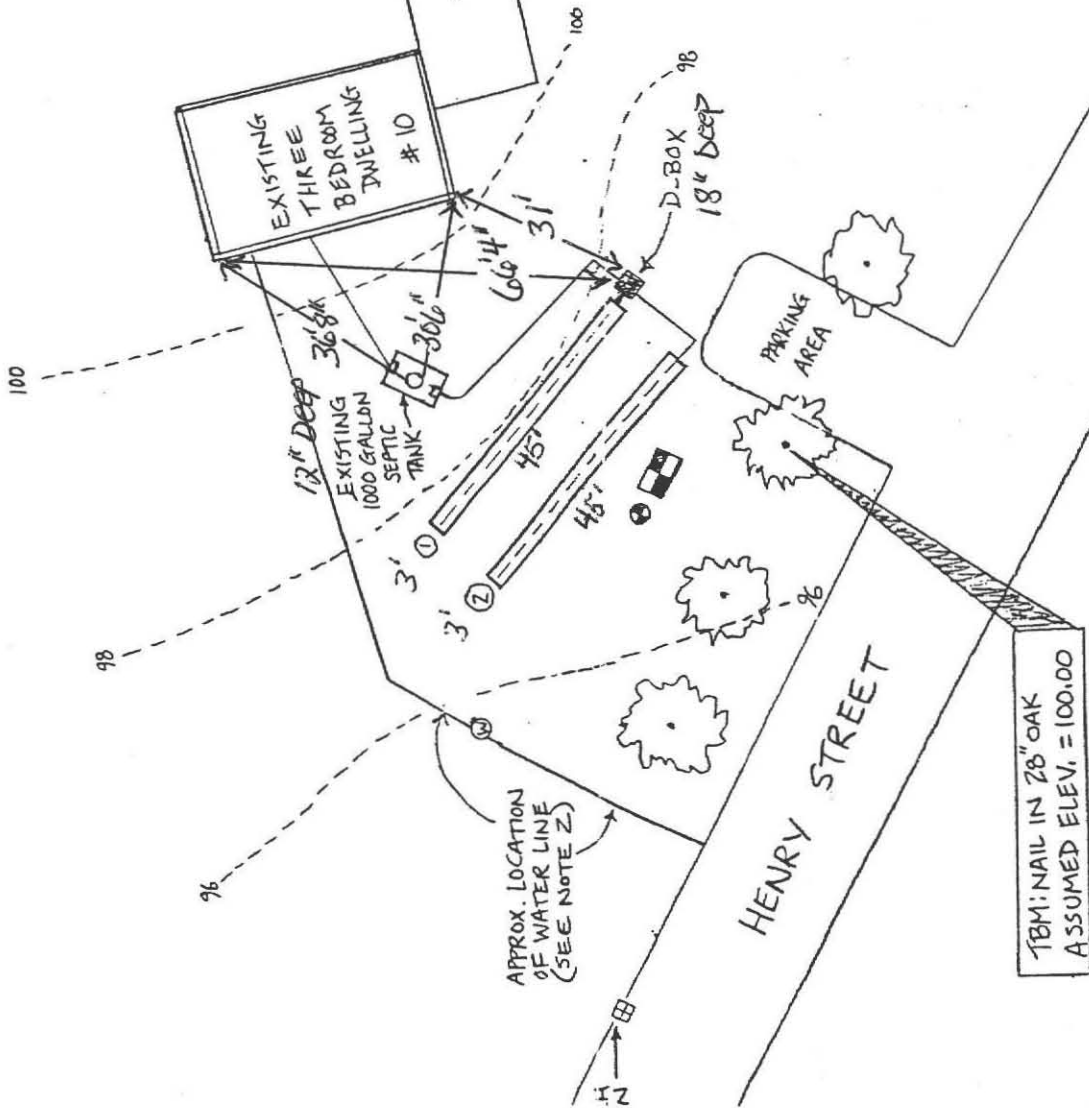
EXISTING 1000 GALLON SEPTIC TANK

D-BOX 18" Deep

PARKING AREA

HENRY STREET

TBM: NAIL IN 28" OAK  
ASSUMED ELEV. = 100.00









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**D. System Information (cont.)**

Sketch Of Sewage Disposal System: Provide a sketch 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.

SEE EXHIBIT "A" ATTACHED



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## D. System Information (cont.)

**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.):

\_\_\_\_\_  
\_\_\_\_\_

**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.):

\_\_\_\_\_  
\_\_\_\_\_



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## D. System Information (cont.)

### Site Exam:

- Check Slope
- Surface water
- Check cellar
- Shallow wells

Estimated depth to ground water:

6+  
feet

Please indicate all methods used to determine the high ground water elevation:

- Obtained from system design plans on record  
If checked, date of design plan reviewed: AUGUST 13, 1998  
Date
- Observed site (abutting property/observation hole within 150 feet of SAS)
- Checked with local Board of Health - explain:  
\_\_\_\_\_
- Checked with local excavators, installers - (attach documentation)
- Accessed USGS database - explain:  
\_\_\_\_\_

You **must** describe how you established the high ground water elevation:

SITE EXAM AND DESIGN PLAN

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THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY

PHYSICAL CHEMISTRY  
LABORATORY

RESEARCH REPORT

NO. 10

BY

W. R. S. LINDSEY

AND

W. R. S. LINDSEY

CHICAGO, ILLINOIS

1955

PHYSICAL CHEMISTRY

LABORATORY

UNIVERSITY OF CHICAGO

CHICAGO, ILLINOIS

PHYSICAL CHEMISTRY

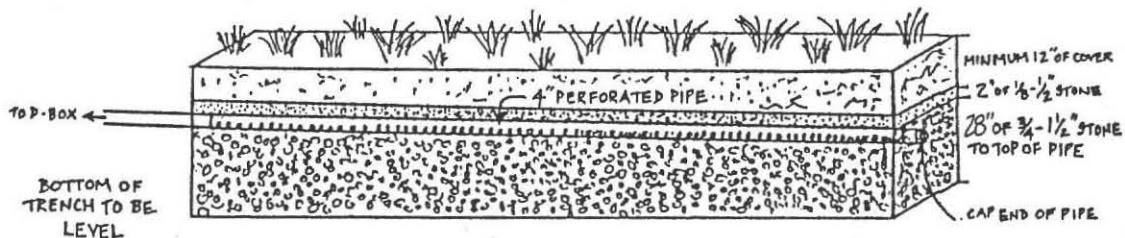
LABORATORY

UNIVERSITY OF CHICAGO

CHICAGO, ILLINOIS

# LEACHING TRENCH

(NOT TO SCALE)



TRENCH DIMENSIONS: LENGTH = 45'      EFFECTIVE DEPTH: 2'  
 WIDTH = 3'  
 DEPTH = 2-2.23'      NUMBER OF TRENCHES: 2'

### DEEP OBSERVATION HOLE LOG

DATE: 7/30/98

SOIL EVALUATOR: MARK THOMPSON      WITNESS: MIKE LOMBARD

HOLE	TP-1	EL. 96.4'		
DEPTH	HORIZON	TEXTURE	COLOR	MOTTLES
0-19"	Ap	fSL	10YR5/3	NONE
19-25"	Bw	gSL	10YR 6/6	NONE
25-120"	C	gS	10YR5/4	NONE

ESTIMATED SEASONAL HIGH GROUNDWATER: 120"+

PERCOLATION RATE: < 2 MIN/IN

