

170
Need Tim to sign

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PUT

TITLE 5
OFFICIAL INSPECTION FOR - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM FORM
PART A
CERTIFICATION

COPY

Property Address: 170 E. Leverett Road, Amherst MA 01002
Owner's Name: Jane Till
Address: 170 E. Leverett Road, Amherst MA 01002

Date of Inspection: September 21, 2005

Name of Inspector: Alan E. Weiss, R.S # 933, Hydrogeologist, M.S.
Company Name: Cold Spring Environmental Inc.
Mailing Address: 350 Old Enfield Road
Belchertown, Massachusetts 01007
Telephone Number: (413) 323-5957 fax: 413-323-4916

CERTIFICATION STATEMENT

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
- Needs Further Evaluation by the Local Approving Authority
- Fails

Inspector's Signature:  Date: **September 20, 2005**

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.

Notes and Comments:

Septic Tank had a good level upon inspection. System appears to be fine. All levels were ok at tank. System is 5+/- yrs old. Outlet & inlet tees are in place with 2 chamber in 1500 gal s. tank. Pumping of tank was completed. All staining was proper. D. box level and competent.

****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 different conditions of use.

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OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART A
CERTIFICATION (continued)

Property Address: 170 E. Leverett Road
Owner: Till
Date of Inspection: September 20, 2005

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

A. System Passes:

YES 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: No signs of failure

B. System Conditionally Passes:

NO 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):

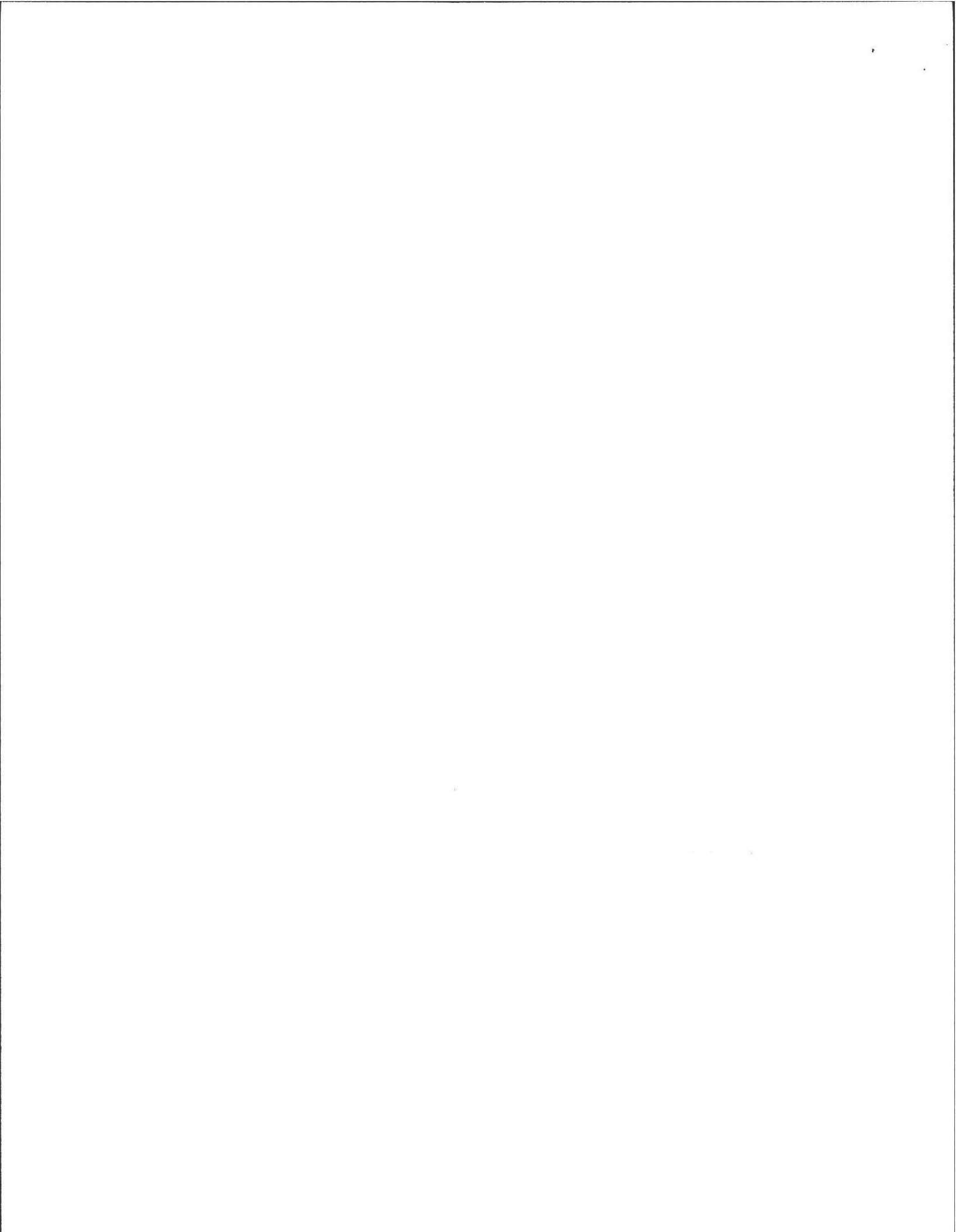
- ____ broken pipe(s) are replaced
- ____ obstruction is removed
- ____ distribution box is leveled or replaced

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:



OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART A
CERTIFICATION (continued)

Property Address: 170 E. Leverett Road
Owner: Till
Date of Inspection: September 20, 2005

C. Further Evaluation is Required by the Board of Health:

NO 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.

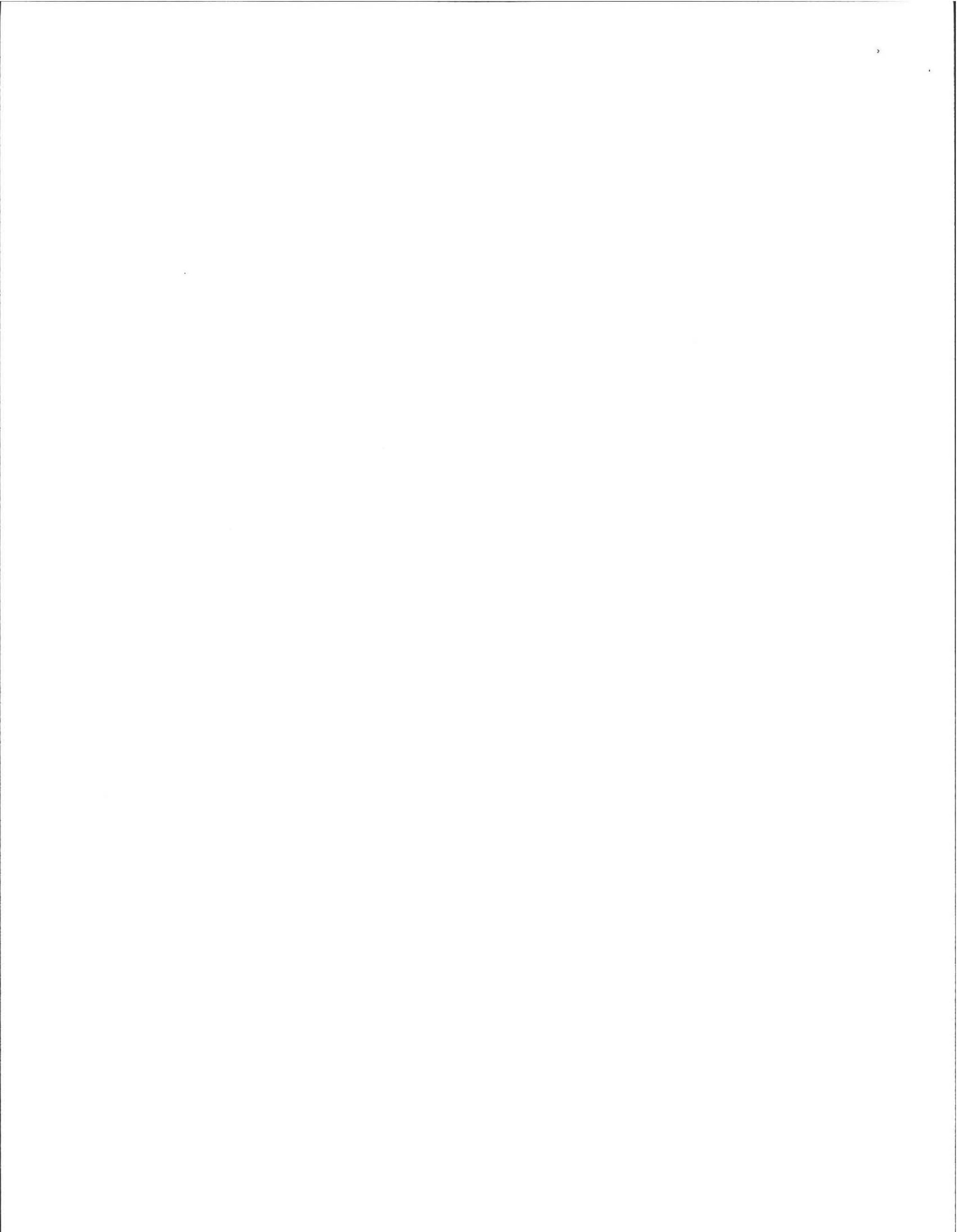
The system has a septic tank and SAS and the SAS is within a Zone 1 of a public water supply.

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

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 and volatile organic compounds indicates that the well is free from pollution from that facility 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:



OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART A
CERTIFICATION (continued)

Property Address: 170 E. Leverett Road
 Owner: Till
 Date of Inspection: September 20, 2005

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 NOT 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. |
| <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. [This system passes if the well water analysis, performed at a DEP certified laboratory, for coliform bacteria and volatile organic compounds indicates that the well is free from pollution from that facility 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.] |

NO (Yes/No) **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.

E. Large Systems:

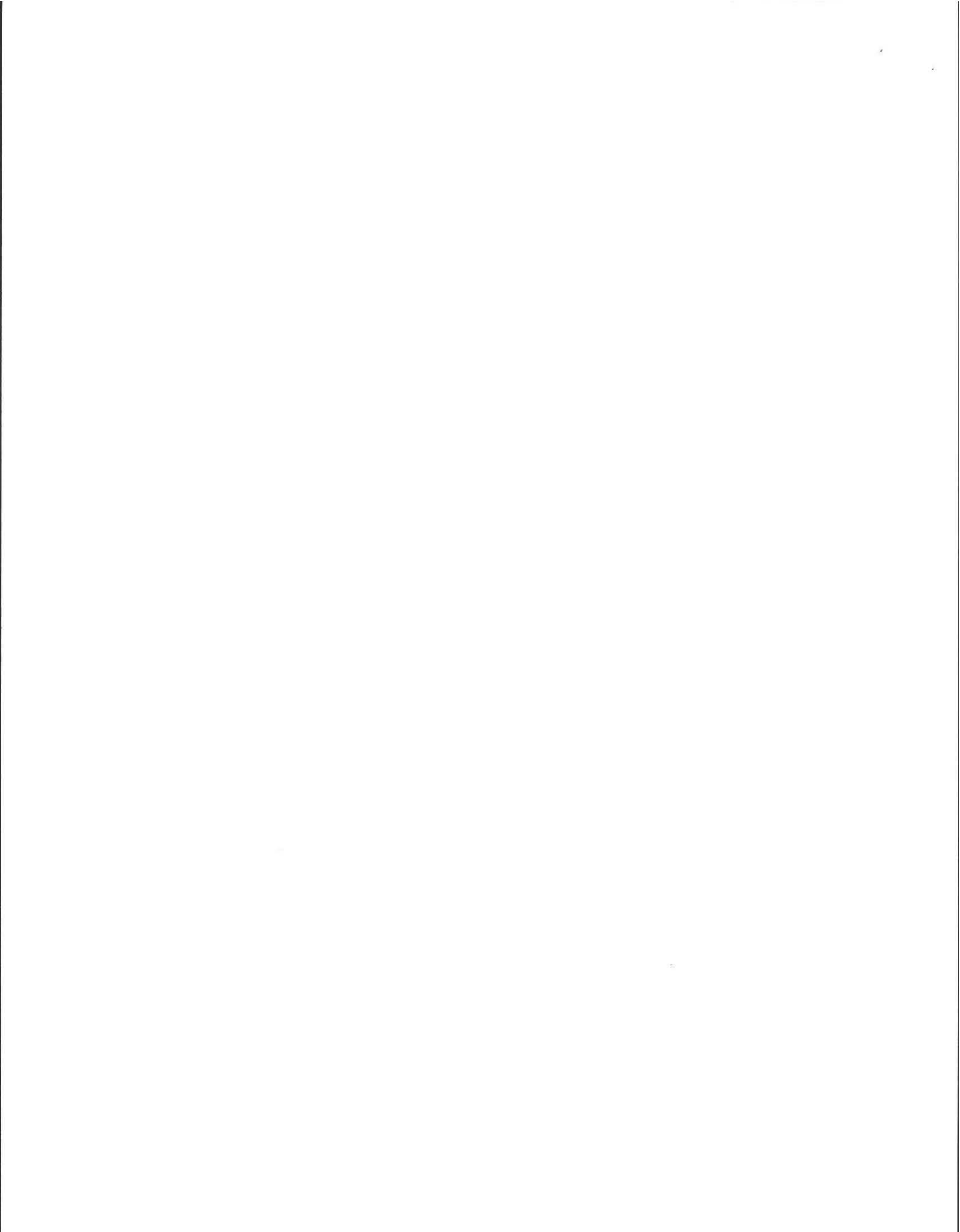
To be considered a large system the system must serve a facility with a design flow of 10,000 gpd to 15,000 gpd.

You must indicate either "yes" or "no" to each of the following:

(The following criteria apply to large systems in addition to the criteria above)

- | 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.



OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART B
CHECKLIST

Property Address: 170 E. Leverett Road
Owner: Till
Date of Inspection: September 20, 2005

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

Yes No

Yes ___ Pumping information was provided by the owner, occupant, or Board of Health

___ No Were any of the system components pumped out in the previous two weeks ?

YES ___ Has the system received normal flows in the previous two week period ?

___ NO Have large volumes of water been introduced to the system recently or as part of this inspection ?

yes ___ Were as built plans of the system obtained and examined? (If they were not available note as N/A)

yes ___ Was the facility or dwelling inspected for signs of sewage back up ?

yes ___ Was the site inspected for signs of break out ?

yes ___ Were all system components, excluding the SAS, located on site ?

yes ___ 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 ?

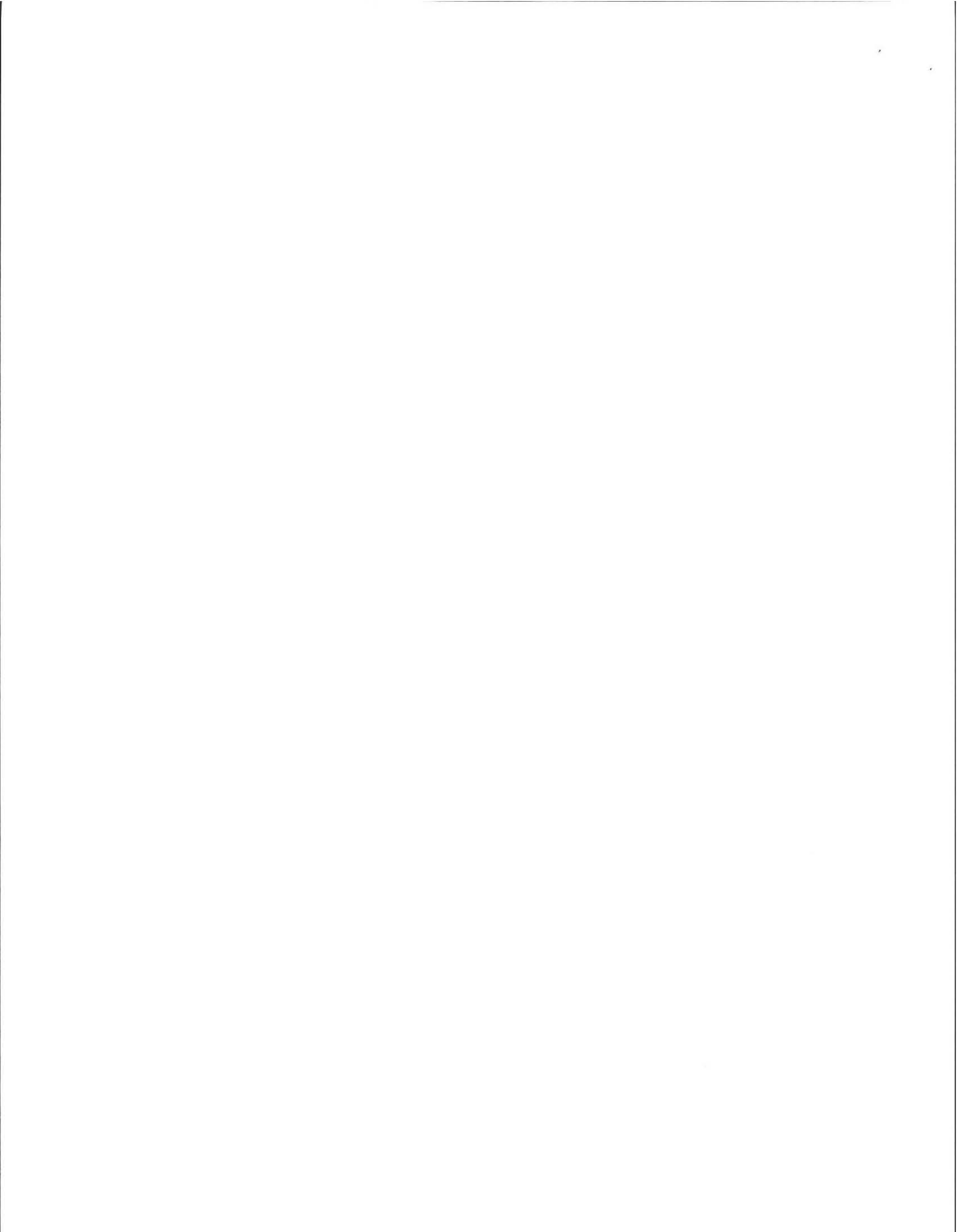
yes ___ Was the facility owner (and occupants if different from owner) provided with information on the proper maintenance of subsurface sewage disposal systems ?

The size and location of the Soil Absorption System (SAS) on the site has been determined based on:

Yes no

Yes ___ Existing information. For example, a plan at the Board of Health.

yes ___ 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(3)(b)]



OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION

Property Address: 170 E. Leverett Road
Owner: Till
Date of Inspection: September 20, 2005

FLOW CONDITIONS

RESIDENTIAL

Number of bedrooms (design): 5 Number of bedrooms (actual): 4
DESIGN flow based on 310 CMR 15.203 (for example: 110 gpd x # of bedrooms): 550 (779)
Number of current residents: 2
Does residence have a garbage grinder (yes or no): No GRINDERS ARE NOT RECOMMENDED
Is laundry on a separate sewage system (yes or no): *no [if yes separate inspection required]
Laundry system inspected (yes or no): n/a
Seasonal use: (yes or no): NO
Water meter readings, if available (last 2 years usage (gpd)): N/a
Sump pump (yes or no): YES
Last date of occupancy: Current

COMMERCIAL/INDUSTRIAL

Type of establishment: N/A
Design flow (based on 310 CMR 15.203): _____ gpd
Basis of design flow (seats/persons/sqft, etc.): _____
Grease trap present (yes or no): _____
Industrial waste holding tank present (yes or no): _____
Non-sanitary waste discharged to the Title 5 system (yes or NO):
Water meter readings, if available: _____
Last date of occupancy/use: _____

OTHER (describe) _____

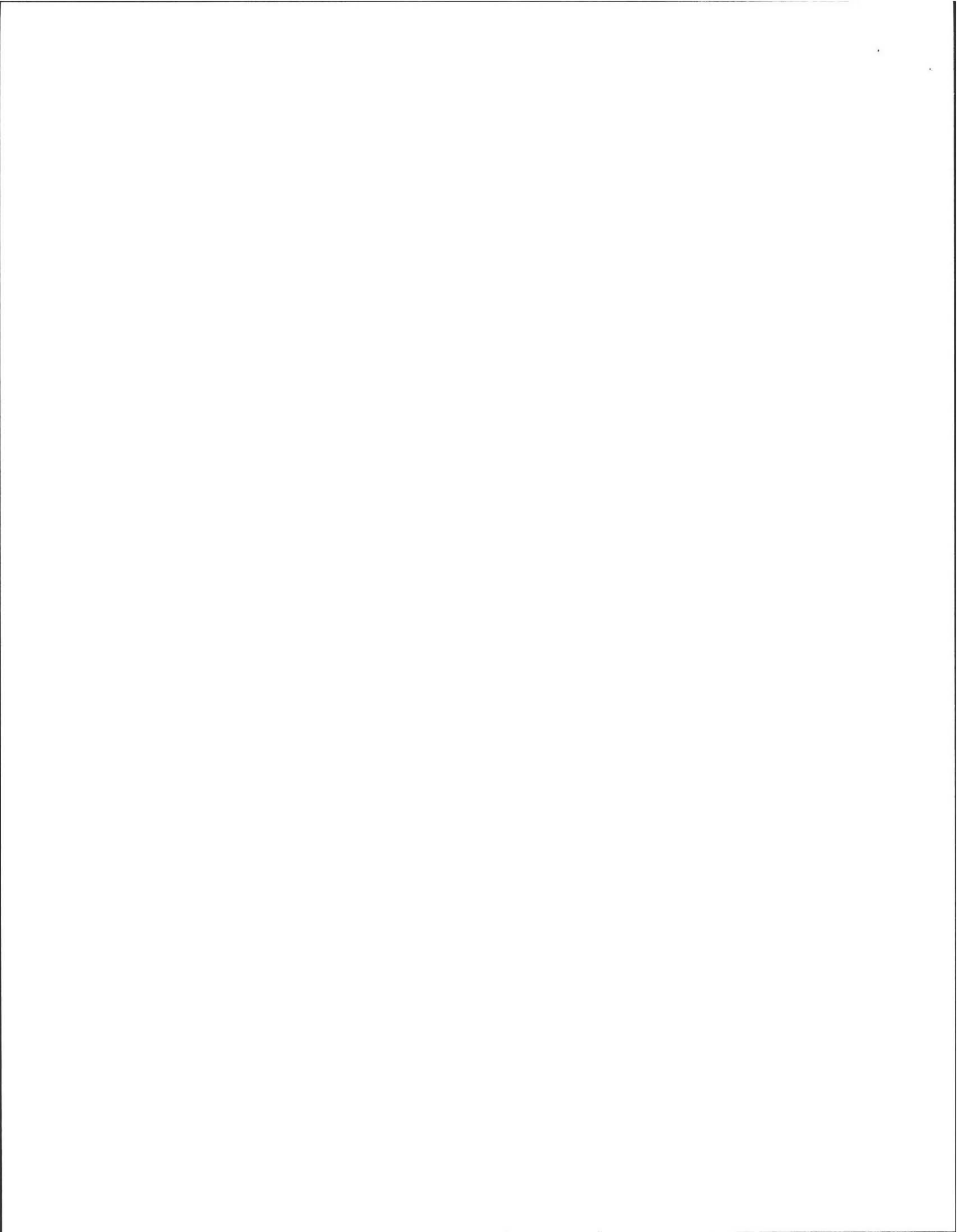
GENERAL INFORMATION

Pumping Records

Source of information: (owner)
Was system pumped as part of the inspection (**YES** or no): Yes
If yes, volume pumped: 1,500 gallons -- How was quantity pumped determined? Measured
Reason for pumping: Time- Pumped last 8/04

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: 5 years+/-
Were sewage odors detected when arriving at the site (yes or no): NO



OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address: 170 E. Leverett Road
Owner: Till
Date of Inspection: September 20, 2005

BUILDING SEWER (locate on site plan)

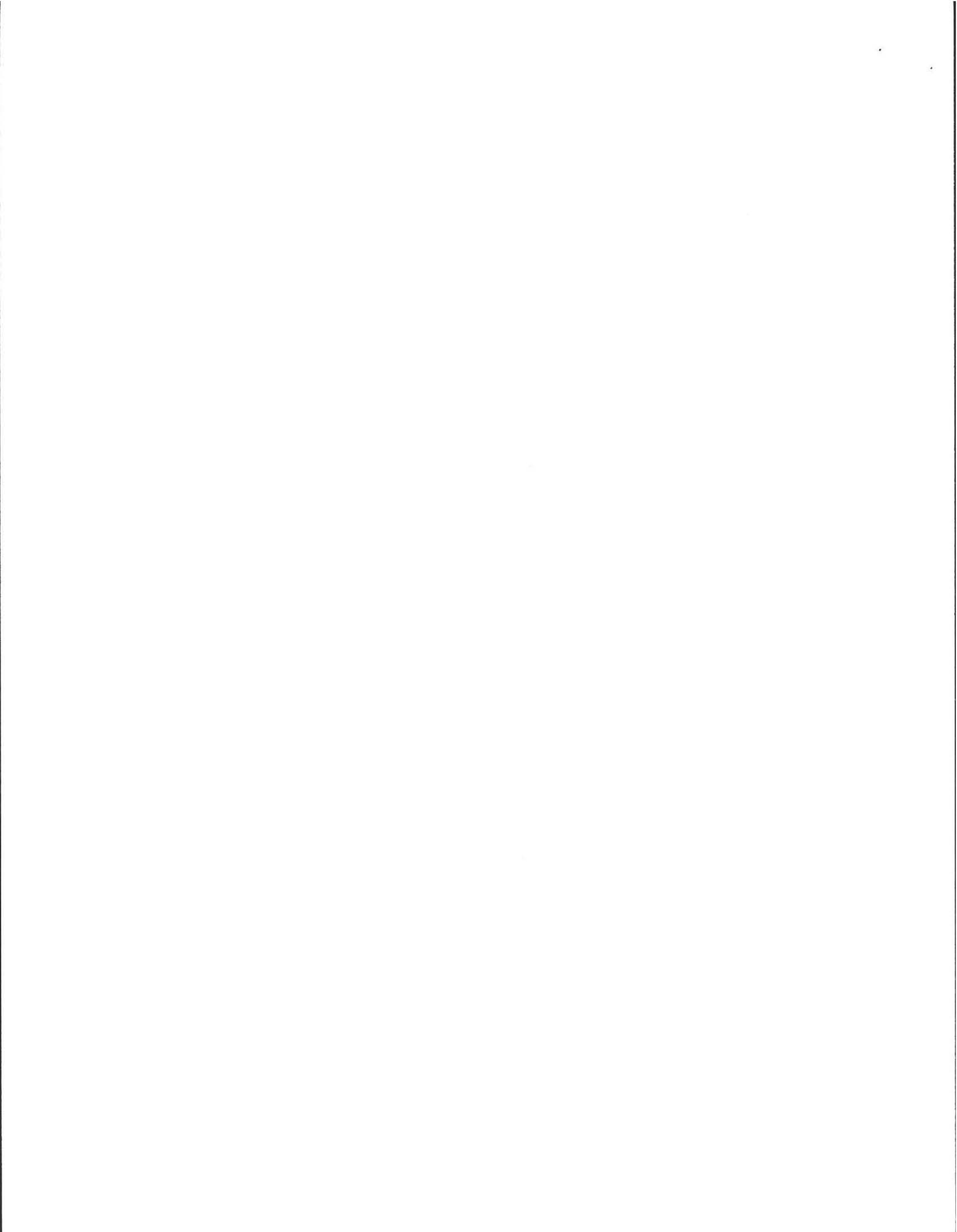
Depth below grade: 60"
Materials of construction: ___ cast iron X 40 PVC ___ other (explain): ___
Distance from private water supply well or suction line: 10'+
Comments (on condition of joints, venting, evidence of leakage, etc.):

SEPTIC TANK: Yes (locate on site plan)

Depth below grade: 60"
Material of construction: X concrete ___ metal ___ fiberglass ___ polyethylene
___ other(explain) _____
If tank is metal list age: ___ Is age confirmed by a Certificate of Compliance (yes or no): ___ (attach a copy of certificate)
Dimensions: 4.5'w x 10.5'l x 4.5'd
Sludge depth: 2"
Distance from top of sludge to bottom of outlet tee or baffle: 40"
Scum thickness: 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: 12"
How were dimensions determined: MEASURED
Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels as related to outlet invert, evidence of leakage, etc.): TANK CONDITION OK
tees & baffles in place. (2 chamber)

GREASE TRAP: N/A (locate on site plan)

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



OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address: 170 E. Leverett Road
Owner: Till
Date of Inspection: September 20, 2005

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):

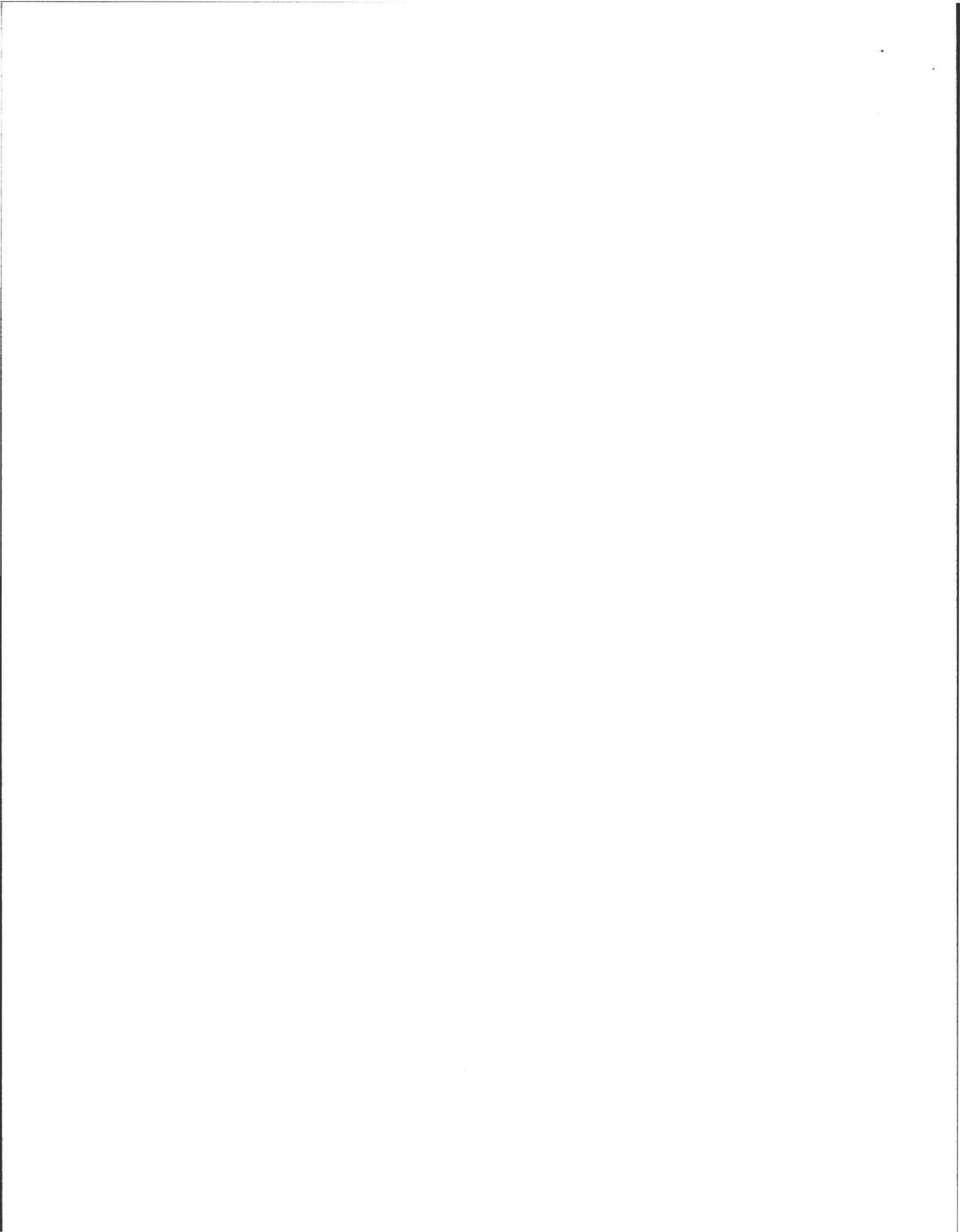
Dimensions: _____
Capacity: _____gallons
Design Flow: _____gallons/day
Alarm present (yes or no): _____
Alarm level: _____ Alarm in working order (yes or no): _____
Date of last pumping: _____
Comments (condition of alarm and float switches, etc.): _____

DISTRIBUTION BOX: YES (if present must be opened)(locate on site plan)

Depth of liquid level above outlet invert: @ inv (4 pipes).
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.): Level and equal, cover replaced

PUMP CHAMBER: NO (locate on site plan)

Pumps in working order (yes or no): _____
Alarms in working order (yes or no): _____
Comments (note condition of pump chamber, condition of pumps and appurtenances, etc.): _____



OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address: 170 E. Leverett Road
Owner: Till
Date of Inspection: September 20, 2005

SOIL ABSORPTION SYSTEM (SAS): YES (locate on site plan, excavation not required)

If SAS not located explain why:

Type

____ leaching pits, number: _____
____ leaching chambers, number: _____
____ leaching galleries, number: _____
4 Leaching trenches, number, length: _____
____ leaching fields, number, dimensions: 3' x 40' | +/-
____ overflow cesspool, number: _____
____ innovative/alternative system Type/name of technology: _____

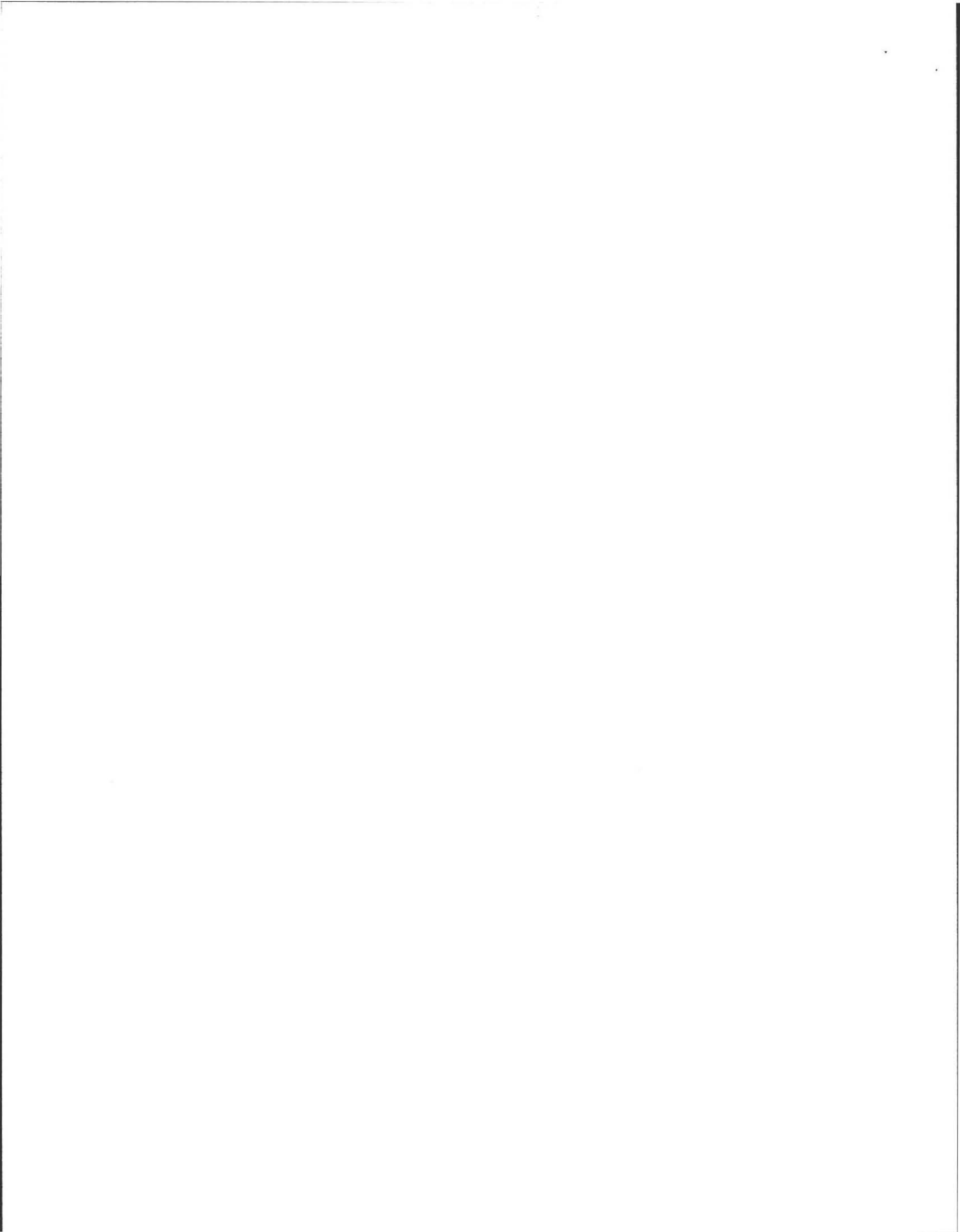
Comments (note condition of soil, signs of hydraulic failure, level of ponding, damp soil, condition of vegetation, etc.): No signs of failure (stone not saturated), no Groundwater observed, No staining above piping inverts of 4 line system.

CESSPOOLS: N/A (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 or no): _____
Comments (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.):

PRIVY: N/A (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.):



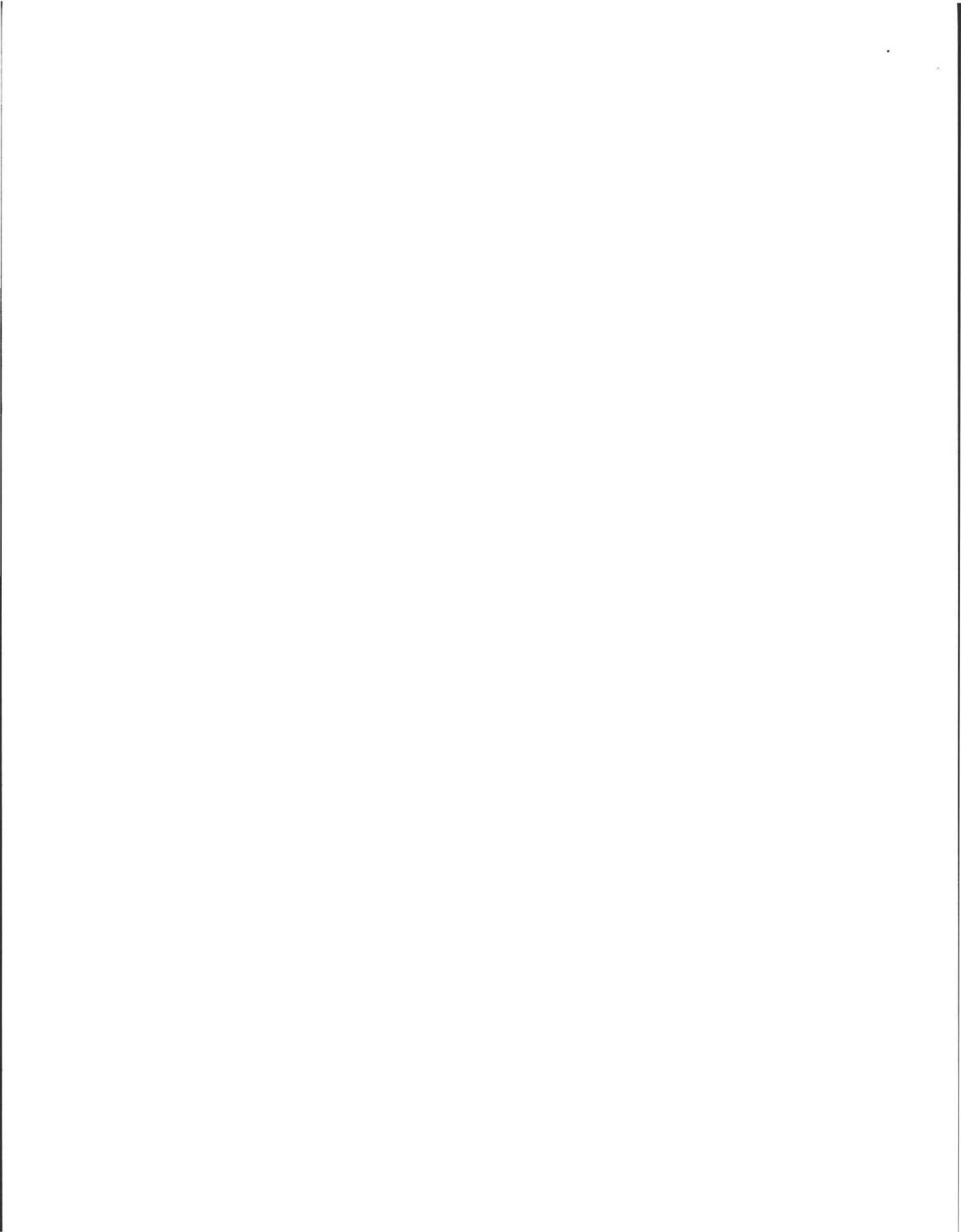
OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address: 170 E. Leverett Road
Owner: Till
Date of Inspection: September 20, 2005

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 Attached.



OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address: 170 E. Leverett Road
Owner: Till
Date of Inspection: September 20, 2005

SITE EXAM

Slope YES
Surface water
Check cellar YES
Shallow wells _____

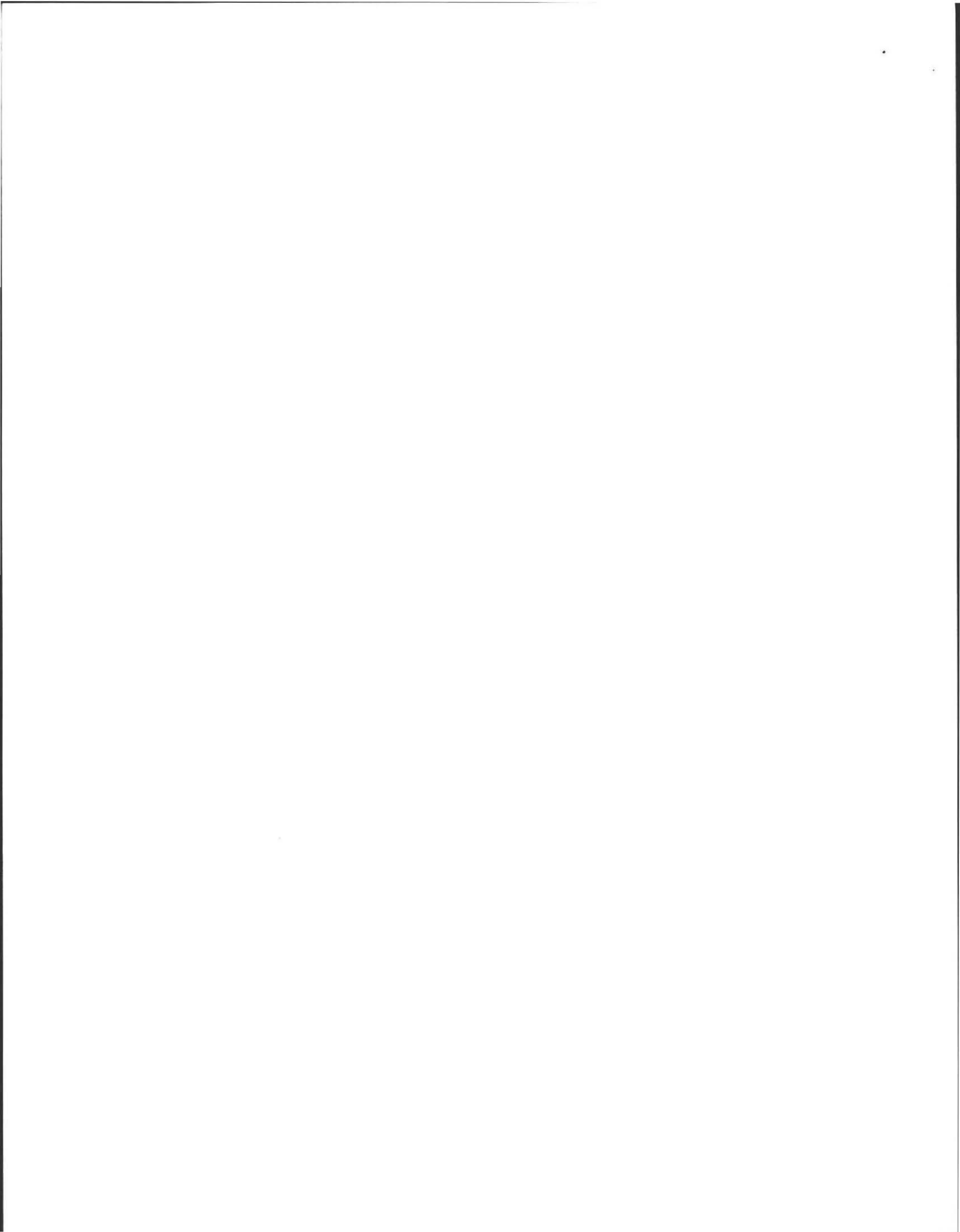
Estimated depth to ground water 5+ feet

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

- Obtained from system design plans on record - If checked, date of design plan reviewed: 1998
 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:

Water level based on on-site data & from topography & vegetation and soil type system only 3ft. down. (NO evidence of high g. water observed in area of field).





#170 Sched 40 Pipe under driveway
COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

Application for: Construct Repair () Upgrade () Abandon () - Complete System Individual Components

| | |
|--|--|
| Location <u>170 EAST LEVERETT RD</u> | Owner's Name <u>RON BERLUME</u> |
| Map/Parcel# <u>MAP 3C - PARCEL 14</u> | Address <u>25 SYLVIA HTS - MADLEY, MA</u> |
| Lot# <u>LOT 3</u> | Telephone# <u>549-4270</u> |
| Installer's Name <u>KARLS EXCAVATING</u> | Designer's Name <u>TIMOTHY MAGINNIS RS</u> |
| Address <u>RIVER DRIVE MADLEY</u> | Address <u>70 MONTAGUE RD - W HAMPTON</u> |
| Telephone# <u>549-5396</u> | Telephone# <u>527-5291</u> |

Type of Building SINGLE FAMILY Lot Size 86003 sq. ft.
 Dwelling - No. of Bedrooms 5 Garbage grinder ()
 Other - Type of Building _____ No. of persons 10 Showers () Garage
 Other Fixtures _____
 Design Flow (min. required) 550 gpd Calculated design flow 687.50 Design flow provided 779.44 gpd
 Plan: Date 4-17-2000 Number of sheets 2 Revision Date _____
 Title PLAN OF PROPOSED SUBSURFACE SEWAGE DISPOSAL SYSTEM
 Description of Soil(s) SEE PLAN & ATTACHED SOIL EVAL. FORM
 Soil Evaluator Form No. _____ Name of Soil Evaluator KC BOYSEN Date of Evaluation 4-21-1998
LAND SOLUTIONS

DESCRIPTION OF REPAIRS OR ALTERATIONS _____

The undersigned agrees to install the above described Individual Sewage Disposal System in accordance with the provisions of TITLE 5 and further agrees to not to place the system in operation until a Certificate of Compliance has been issued by the Board of Health.

Signed [Signature] Date 5-5-01

Inspections _____

No. 00-07

FEE 75⁰⁰

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

CERTIFICATE OF COMPLIANCE

Description of Work: Individual Component(s) Complete System

The undersigned hereby certify that the Sewage Disposal System; Constructed (), Repaired (), Upgraded (), Abandoned ()

by: _____
at EAST LEVERETT ROAD

has been installed in accordance with the provisions of 810 CMR 15.00 (Title 5) and the approved design plans/as-built plans relating to application No. 00-07, dated _____, Approved Design Flow _____ (gpd)

Installer [Signature]
Designer: [Signature] Inspector: [Signature] Date: 10-24-00

P.02
 413 256 4053
 SEP-10-05 02:35 PM AMHERSTHEALTHDEPARTMENT

2/2

Other tiers (AW) 9/21/05

A → E = 115.50'
 B → E = 97.50'
 AA → E = 84.00'

AS - BUILT DIMENSIONS

| LOCATION | FEET |
|------------------|------|
| "A" to "C" = 24' | |
| "B" to "C" = 20' | |

AS - BUILT DIMENSIONS

| LOCATION | FEET |
|------------------|------|
| "D" to "G" = 41' | |
| "E" to "G" = 45' | |
| "D" to "H" = 43' | |
| "E" to "G" = 45' | |
| "E" to "H" = 39' | |



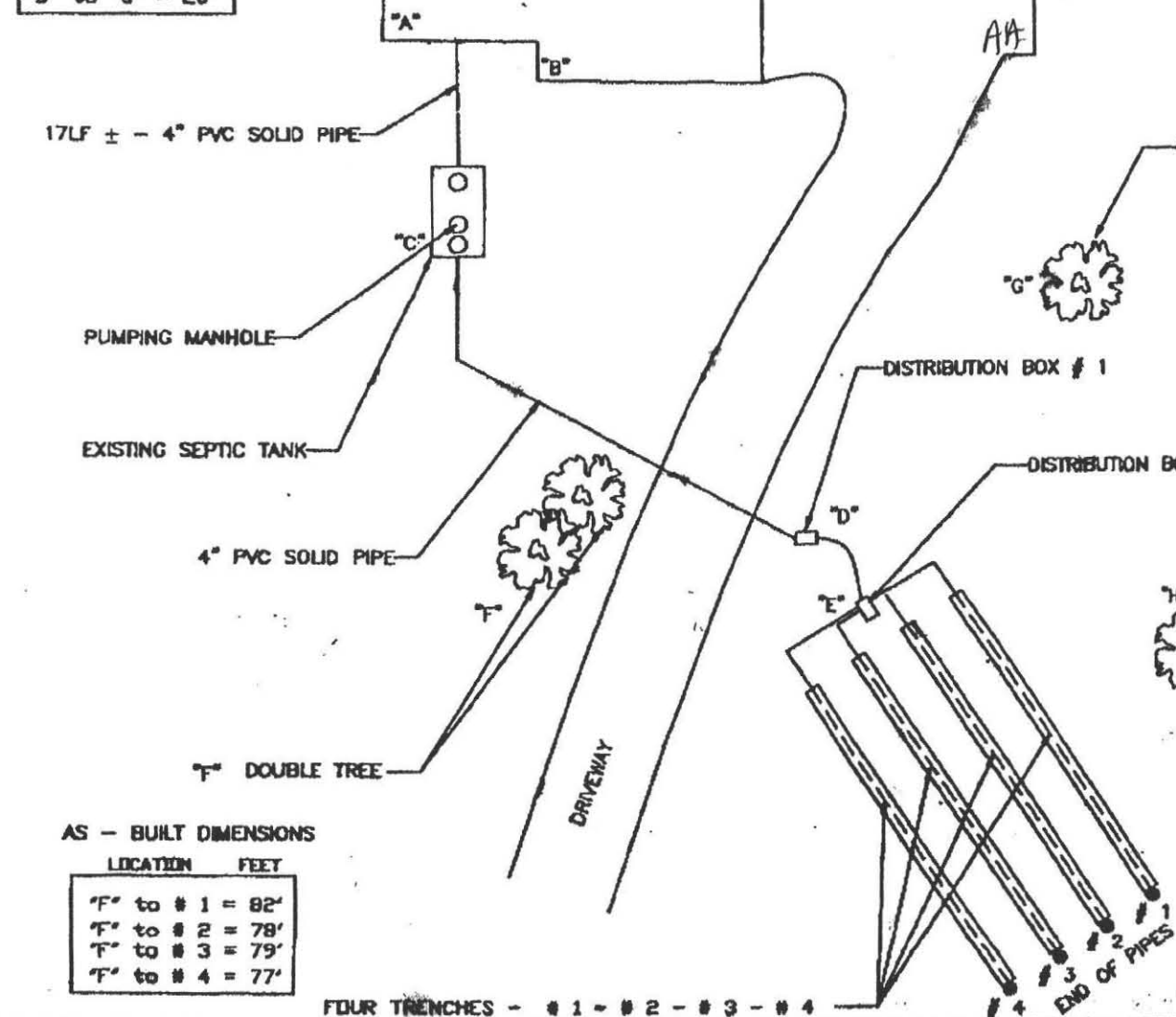
AS - BUILT DIMENSIONS

| LOCATION | FEET |
|------------------|------|
| "H" to # 1 = 24' | |
| "H" to # 2 = 34' | |
| "H" to # 3 = 44' | |
| "H" to # 4 = 54' | |

"H"
 DOUBLE TREE

AS-BUILT PLAN
 SCALE: 1" = 20'

SITE: LOT # 3 (LOT # 170)
 EAST LEVERETT ROAD - AMHERST, MA.
 FOR: BERCUME BUILDERS
 HADLEY, MA.
 DATE: FEBRUARY 16, 2002
 BY: TIMOTHY E. MAGINNIS R.S.



AS - BUILT DIMENSIONS

| LOCATION | FEET |
|------------------|------|
| "F" to # 1 = 82' | |
| "F" to # 2 = 78' | |
| "F" to # 3 = 79' | |
| "F" to # 4 = 77' | |

FOUR TRENCHES - # 1 - # 2 - # 3 - # 4

END OF PIPES

