SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART A
CERTIFICATION (continued)

Property Address: 152 WILD FLOWER
Owner: BEN OKE
Date of Inspection: 8/18/98

B] SYSTEM CONDITIONALLY PASSES (continued)

___ Sewage backup or breakout or high static water level observed in the distribution box is due to broken or obstructed pipe(s) or due to a broken, settled or uneven distribution box. The system will pass inspection if (with approval of the Board of Health). Describe observations:

_____ broken pipe(s) are replaced
_____ obstruction is removed
_____ distribution box is levelled or replaced

___ The system required pumping more than four 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

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 the public health, safety and the environment.

1) **SYSTEM WILL PASS UNLESS BOARD OF HEALTH DETERMINES THAT THE SYSTEM IS NOT FUNCTIONING IN A MANNER WHICH WILL PROTECT THE PUBLIC HEALTH AND 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 APPROPRIATE) DETERMINES THAT THE SYSTEM IS FUNCTIONING IN A MANNER THAT PROTECTS THE PUBLIC HEALTH AND SAFETY AND THE ENVIRONMENT:**

___ The system has a septic tank and soil absorption system (*SAS*) and the SAS is within 100 feet to a surface water supply or tributary to a surface water supply.
___ The system has a septic tank and soil absorption system and the SAS is within a Zone I of a public water supply well.
___ The system has a septic tank and soil absorption system and the SAS is within 50 feet of a private water supply well.
___ The system has a septic tank and soil absorption system and the SAS is less than 100 feet but 50 feet or more from a private water supply well, unless a well water analysis 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. Method used to determine distance _____ **(approximation not valid)**.

3) **OTHER**

___ _____
_____
_____

#152

COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONE WINTER STREET, BOSTON, MA 02108 617-292-5500

WILLIAM F. WELD
Governo:

ARGEO PAUL CELLUCCI
Lt. Governor

TRUDY COXE
Secretary

DAVID B. STRUHS
Commissioner

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART A
CERTIFICATION

Property Address: 157 WILDFLOWER DR.
Date of Inspection: 8/18/98
Name of Inspector: Alan E. Weiss, R.S., M.S.
Address of Owner: 893 West ST
(If different) Amherst, MA. 01002

I am a DEP approved system inspector pursuant to Section 15.340 of Title 5 (310 CMR 15.000)
Company Name: Cold Spring Environmental, Inc.
Mailing Address: 350 Old Enfield Rd., Belchertown, MA. 01007
Telephone Number: (413) 323-5957

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 inspection. The inspection was performed based on my training and experience in the proper function and maintenance of on-site sewage disposal systems. The system:

- ✓ Passes
- ___ Conditionally Passes
- ___ Needs Further Evaluation By the Local Approving Authority
- ___ Fails

Inspector's Signature: [signature] Date: 8/18/98

The System Inspector shall submit a copy of this inspection report to the Approving Authority within thirty (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 Department of Environmental Protection. The original should be sent to the system owner and copies sent to the buyer, if applicable, and the approving authority.

INSPECTION SUMMARY: Check *A, B, C, or D*:

A] SYSTEM PASSES:

✓ I have not found any information which indicates that the system violates any of the failure criteria as defined in 310 CMR 15.303 Any failure criteria not evaluated are indicated below.

COMMENTS: working condition (A)

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.

Indicate yes, no, or not determined (Y, N, or ND). Describe basis of determination in all instances. If "not determined", explain why not.

___ The septic tank is metal, unless the owner or operator has provided the system inspector with a copy of a Certificate of Compliance (attached) indicating that the tank was installed within twenty (20) years prior to the date of the inspection; or the septic tank, whether or not metal, is cracked, structurally unsound, shows substantial infiltration or exfiltration, or tank failure is imminent. The system will pass inspection if the existing septic tank is replaced with a conforming septic tank as approved by the Board of Health.

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART B
CHECKLIST

Property Address: 152 WILD FLOWER
Owner: DKE
Date of Inspection: 8/18/98

Check if the following have been done: You must indicate either "Yes" or "No" as to each of the following:

Yes	No	
✓		Pumping information was provided by the owner, occupant, or Board of Health.
✓		None of the system components have been pumped for at least two weeks and the system has been receiving normal flow rates during that period. Large volumes of water have not been introduced into the system recently or as part of this inspection.
✓		As built plans have been obtained and examined. Note if they are not available with N/A.
✓		The facility or dwelling was inspected for signs of sewage back-up.
✓		The system does not receive non-sanitary or industrial waste flow.
✓		The site was inspected for signs of breakout.
✓		All system components, excluding the Soil Absorption System, have been located on the site.
✓		The septic tank manholes were uncovered, opened, and the interior of the septic tank was inspected for condition of baffles or tees, material of construction, dimensions, depth of liquid, depth of sludge, depth of scum.
✓		The size and location of the Soil Absorption System on the site has been determined based on:
		The facility owner (and occupants, if different from owner) were provided with information on the proper maintenance of Sub-Surface Disposal System.
✓		Existing information. Ex. Plan at B.O.H.
✓		Determined in the field (if any of the failure criteria related to Part C is at issue, approximation of distance is unacceptable) [15.302(3)(b)]

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART A
CERTIFICATION (continued)

Property Address: 152 WILDFLOWER
Owner: BEN OKE
Date of Inspection: 8/18/98

D] SYSTEM FAILS:

You must indicate either "Yes" or "No" as to each of the following:

_____ I have determined that the system violates one or more of the following failure criteria as defined in 310 CMR 15.303. The basis for this determination is identified below. The Board of Health should be contacted to determine what will be necessary to correct the failure.

Yes	No	
—	—	Backup of sewage into facility or system component due to an overloaded or clogged SAS or cesspool.
—	—	Discharge or ponding of effluent to the surface of the ground or surface waters due to an overloaded or clogged SAS or cesspool.
—	—	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 Soil Absorption System, cesspool or privy is below the high groundwater elevation
—	—	Any portion of a 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 I of a public 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. If the well has been analyzed to be acceptable, attach copy of well water analysis for coliform bacteria, volatile organic compounds, ammonia nitrogen and nitrate nitrogen.

E] LARGE SYSTEM FAILS:

You must indicate either "Yes" or "No" as to each of the following:

The following criteria apply to large systems in addition to the criteria above:

_____ The system serves a facility with a design flow of 10,000 gpd or greater (Large System) and the system is a significant threat to public health and safety and the environment because one or more of the following conditions exist:

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)

The owner or operator of any such system shall bring the system and facility into full compliance with the groundwater treatment program requirements of 314 CMR 5.00 and 6.00. Please consult the local regional office of the Department for further information.

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address: 152 WILDFLOWER DR.
Owner: OKE
Date of Inspection: 8/18/98

BUILDING SEWER: Y
(Locate on site plan)

Depth below grade: 12"
Material of construction: __ cast iron ✓ 40 PVC __ other (explain)

Distance from private water supply well or suction line: 10' +
Diameter 4"Φ
Comments: (condition of joints, venting, evidence of leakage, etc.)

SEPTIC TANK: Y
(locate on site plan)

Depth below grade: 12"
Material of construction: ✓ concrete __metal __Fiberglass __Polyethylene __other(explain)

If tank is metal, list age ____ Is age confirmed by Certificate of Compliance ____ (Yes/No)

Dimensions: 8.5 x 4.5' x 5.2'
Sludge depth: 4"
Distance from top of sludge to bottom of outlet tee or baffle: 96"
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: 14"
How dimensions were determined: Meas.

Comments:
(recommendation for pumping, condition of inlet and outlet tees or baffles, depth of liquid level in relation to outlet invert, structural integrity, evidence of leakage, etc.) Good Condition, baffles within, OK

GREASE TRAP: N.
(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:
(recommendation for pumping, condition of inlet and outlet tees or baffles, depth of liquid level in relation to outlet invert, structural integrity, evidence of leakage, etc.)

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION

Property Address: 152 WILDFLOWER DR.
Owner: OKE
Date of Inspection: 6/18/98

FLOW CONDITIONS

RESIDENTIAL:
Design flow: 330 g.p.d./bedroom for S.A.S.
Number of bedrooms: 4 (now)
Number of current residents: 5
Garbage grinder (yes or no): N
Laundry connected to system (yes or no): Y
Seasonal use (yes or no): N
Water meter readings, if available (last two (2) year usage (gpd): N/A
Sump Pump (yes or no): N

Last date of occupancy: Current (Since July)

COMMERCIAL/INDUSTRIAL:
Type of establishment: N/A
Design flow: _____ gallons/day
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: _____

OTHER: (Describe) _____
Last date of occupancy _____

GENERAL INFORMATION

PUMPING RECORDS and source of information:
KARL'S 3/18/97
System pumped as part of inspection: (yes or no) Y
If yes, volume pumped: 1000 gallons
Reason for pumping Requested

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)
_____ I/A Technology etc. Copy of up to date contract?
Other _____

APPROXIMATE AGE of all components, date installed (if known) and source of information: 1991
_____

Sewage odors detected when arriving at the site: (yes or no) N

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address: 152 WILDFLOWER DR.
Owner: OKE
Date of Inspection: 8/18/98

SOIL ABSORPTION SYSTEM (SAS): Y 5' Below grade.
(locate on site plan, if possible; excavation not required, but may be approximated by non-intrusive methods)

If not determined to be present, explain:
ONLY 6" OF LIQUID 16" OF L.TANK BELOW INVERT - OK., 22" TOTAL UNDER INVERT

Type: Combined
leaching pits, number: 2 (28'x9'x2.25')
leaching chambers, number:____
leaching galleries, number:____
leaching trenches, number,length:_____
leaching fields, number, dimensions:_____
overflow cesspool, number:____
Alternative system: _____
Name of Technology: _____

Comments:
(note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.)
Good Condition., No Signs of failure.,

CESSPOOLS: N
(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 (cesspool must be pumped as part of inspection)_____

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

PRIVY: N
(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.)

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address: 152 WILDFLOWER LA.
Owner: OKE
Date of Inspection: 8/18/98

TIGHT OR HOLDING TANK: N (Tank must be pumped prior to, or 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 level:_____ Alarm in working order ___ Yes; ___ No
Date of previous pumping: _____
Comments:
(condition of inlet tee, condition of alarm and float switches, etc.)

DISTRIBUTION BOX: N
(locate on site plan)

Depth of liquid level above outlet invert:_____

Comments:
(note if level and distribution is equal, evidence of solids carryover, evidence of leakage into or out of box, etc.)_____

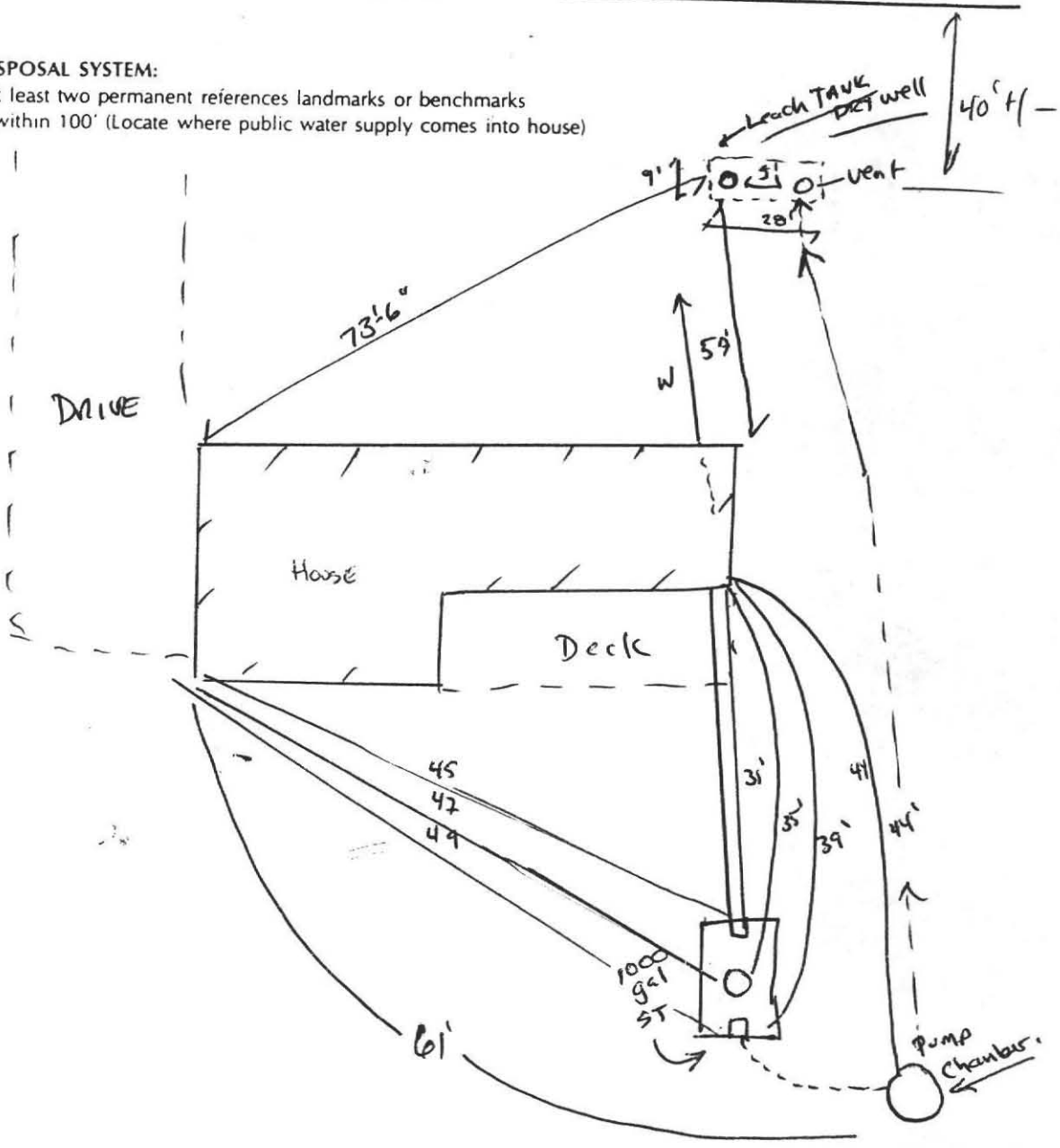
PUMP CHAMBER: Y
(locate on site plan)

Pumps in working order: (Yes or No) Y
Alarms in working order (Yes or No) Y
Comments:
(note condition of pump chamber, condition of pumps and appurtenances, etc.) Good Condition, tested., lights/ Pumps Work.

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address: 152 WILDFLOWER
Owner: BKE
Date of Inspection: 8/18/98

SKETCH OF SEWAGE DISPOSAL SYSTEM:
include ties to at least two permanent references landmarks or benchmarks
locate all wells within 100' (Locate where public water supply comes into house)



SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address: 152 WILDFLOWER DR.
Owner: OKE
Date of Inspection: 8/18/98

Depth to Groundwater 12'+ Feet

Please indicate all the methods used to determine High Groundwater Elevation:

✓ Obtained from Design Plans on record 3/27/90 perc test FLOOD / ZARCZINSKI

____ Observation of Site (Abutting property, observation hole, basement sump etc.)

✓ Determine it from local conditions

✓ Check with local Board of health

____ Check FEMA Maps

____ Check pumping records

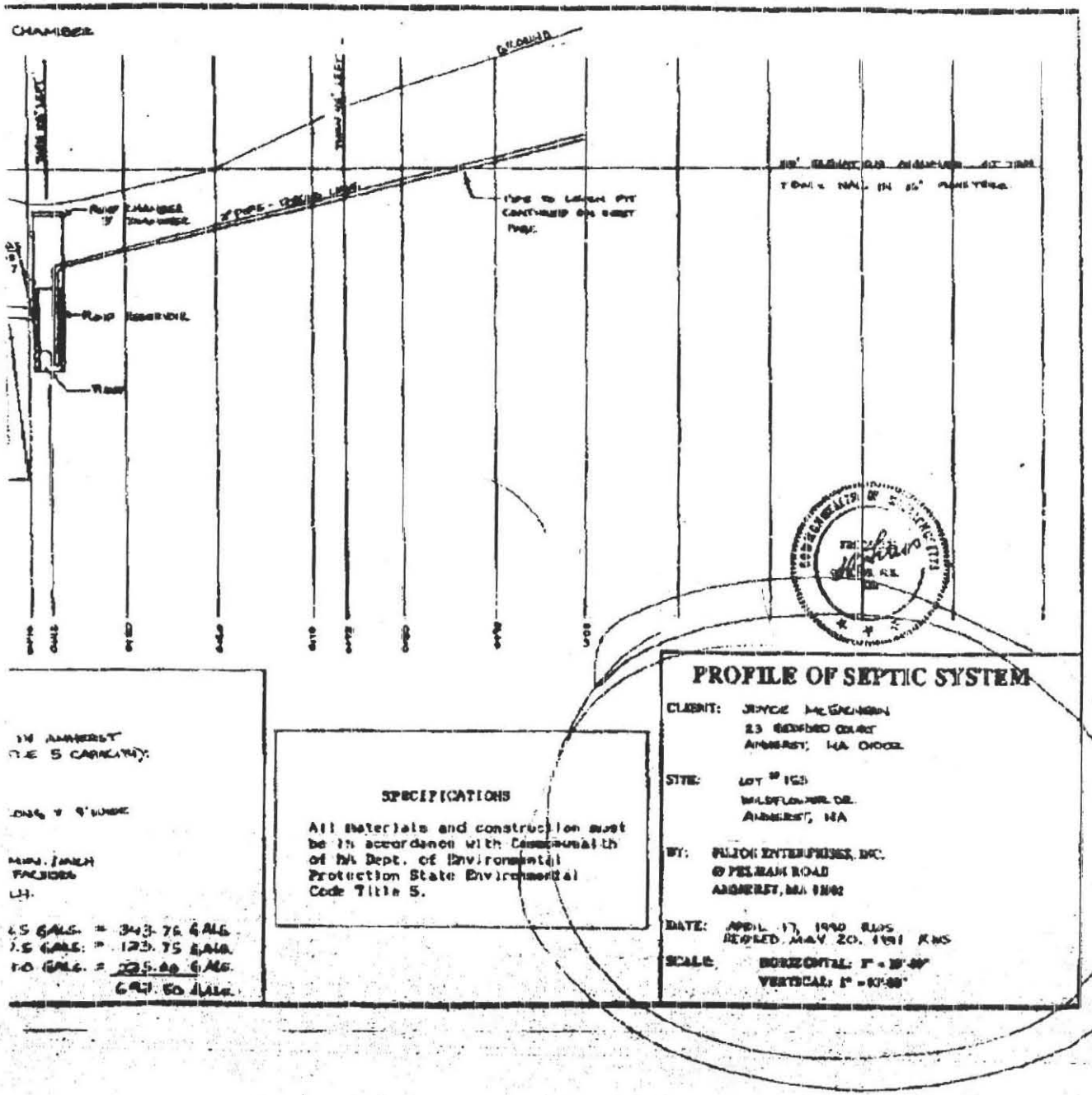
____ Check local excavators, installers

____ Use USGS Data

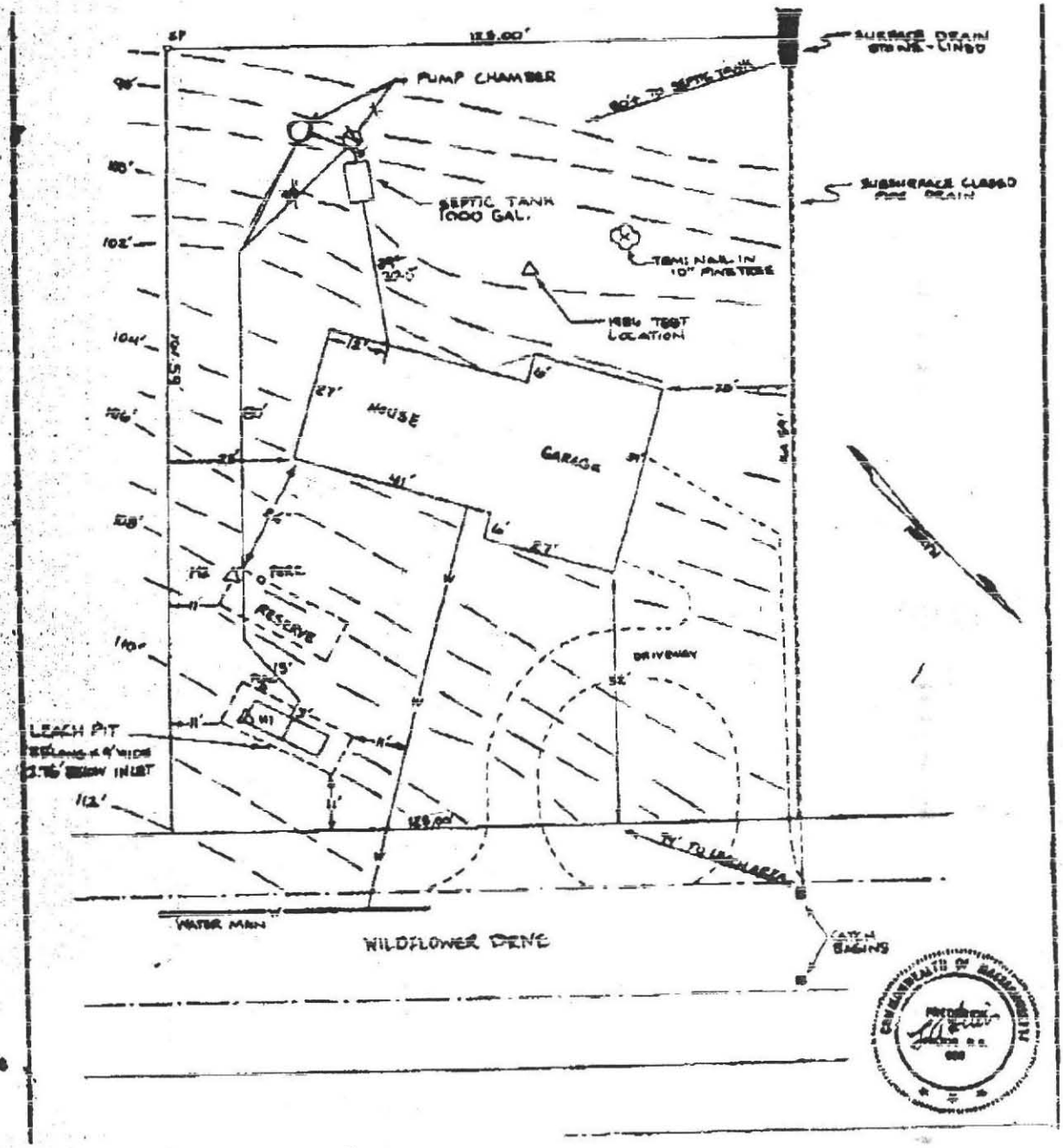
Describe in your own words how you established the High Groundwater Elevation. (Must be completed)

Local Topo + Veg. + Existing records.

(5)

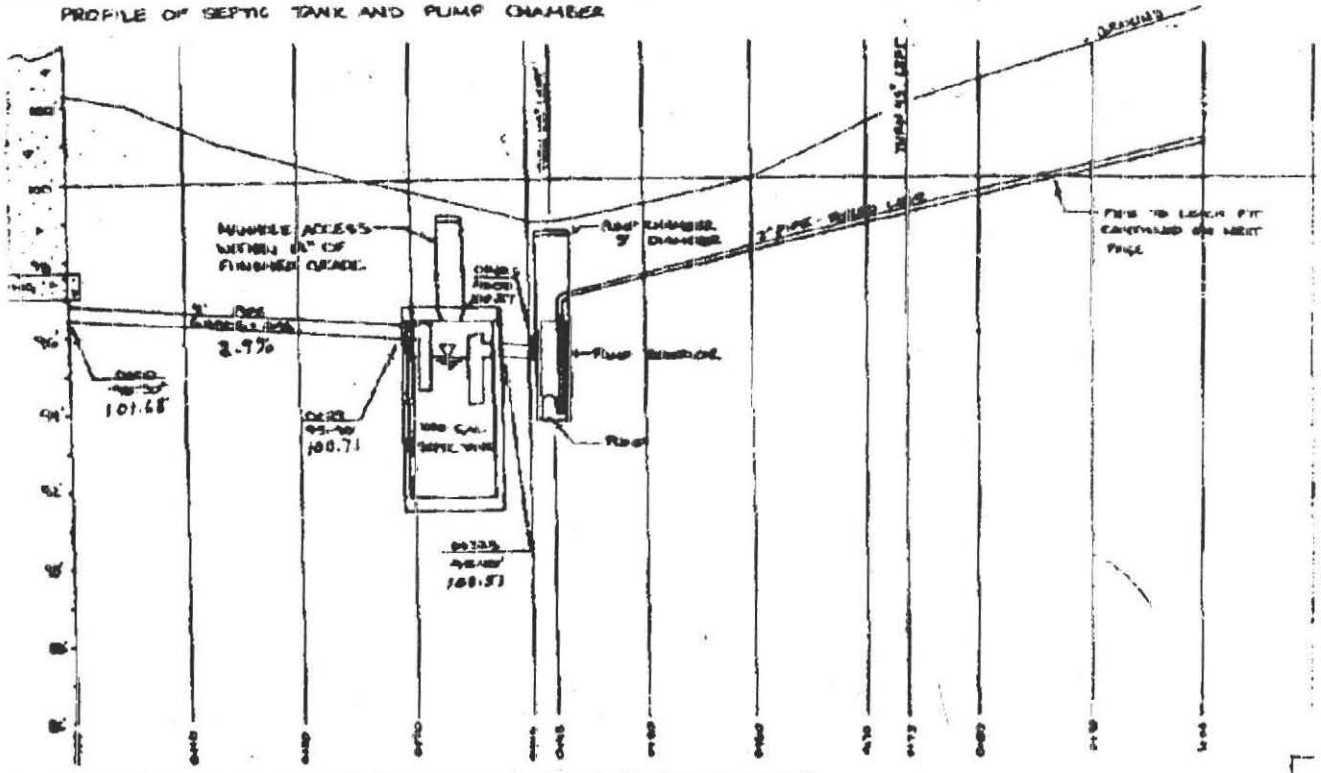


(3)


SURFACE DRAIN
PUMP CHAMBER
SEPTIC TANK
1000 GAL.
SUBSURFACE CLASS 40
TBM: NAIL IN
10" PINE TREE
HSBU TEST
LOCATION
HOUSE
GARAGE
DRIVEWAY
RESERVE
LEACH PIT
WATER MAIN
WILDFLOWER DENE
CATCH
BASINS

(4)

PROFILE OF SEPTIC TANK AND PUMP CHAMBER



LEACHING AREA REQUIREMENTS
-CALCULATIONS-

REQUIRED CAPACITY FOR A 5 BEDROOM HOME IN AMHERST (TOWN OF AMHERST REQUIRES 125% OF TITLE 5 CAPACITY): 687.5 GALLONS PER DAY REQUIRED

PROPOSED DESIGN OF ONE LEACH PIT: 25' LONG x 9' WIDE x 3.75 BELOW INLET (EFFECTIVE DEPTH).

DESIGNED WITH A PERCOLATION RATE OF 2 MIN./INCH GIVING SIDEWALL AND BOTTOM AREA LOADING FACTORS OF 2.5 AND 1.0 GALS. PER SQ. FT. RESPECTIVELY.

SIDEWALLS: 2(25' x 3.75') = 187.50 SQ FT x 2.5 GALS = 343.75 GALS
SIDEWALLS: 2(9' x 3.75') = 67.50 SQ FT x 2.5 GALS = 123.75 GALS
BOTTOM AREA: 25' x 9' = 225.00 SQ FT x 1.0 GALS = 225.00 GALS
TOTAL CAPACITY OF PROPOSED SYSTEM = 692.50 GALS

SPECIFICATIONS

All materials and construction must be in accordance with Commonwealth of MA Dept. of Environmental Protection State Environmental Code Title 5.

(1)

FILIOS ENTERPRISES, INC.
69 Pelham Rd.
Amherst, MA 01002

Date: Nov. 1, 1991

Name: Joyce McEachern

Address:

Dear

This is to notify you that Filios Enterprises, Inc. has inspected the septic system installed

AT: Lot 153
Wildflower Cr.
Amherst MA

Unless exceptions are noted below, the system complied with the approved design and elevations.

Exceptions:

(1) The pump chamber is offset 9" to the left.

(2) The elevations of the As-built septic system vary from those of the design to the extent shown in red on the copy of the profile enclosed

These exceptions do not constitute violations of the State sanitary code nor of Town of Amherst Regulations, and should not interfere with the proper functioning of the system.

Sincerely,

Frederick A. Filios

(Frederick A. Filios)

C.C. to Board of Health

DATE 3/27/90 LOCATION 153 (Lot) Wild Flower LOT SIZE 5' (2)

OWNER Joyce ... ADDRESS 23 Bedford Court TELE # 253 2981

P.E./RS Fred Filios FIRM Filio's Ent OBSERVED BY David Zarnowski

BACK HOE OPERATOR Mark S BENCH MARK

PERC DEPTH 26" PRE SOAK TIME 10:17 12" PERC DEPTH 42" PRE SOAK TIME 10:52 12"

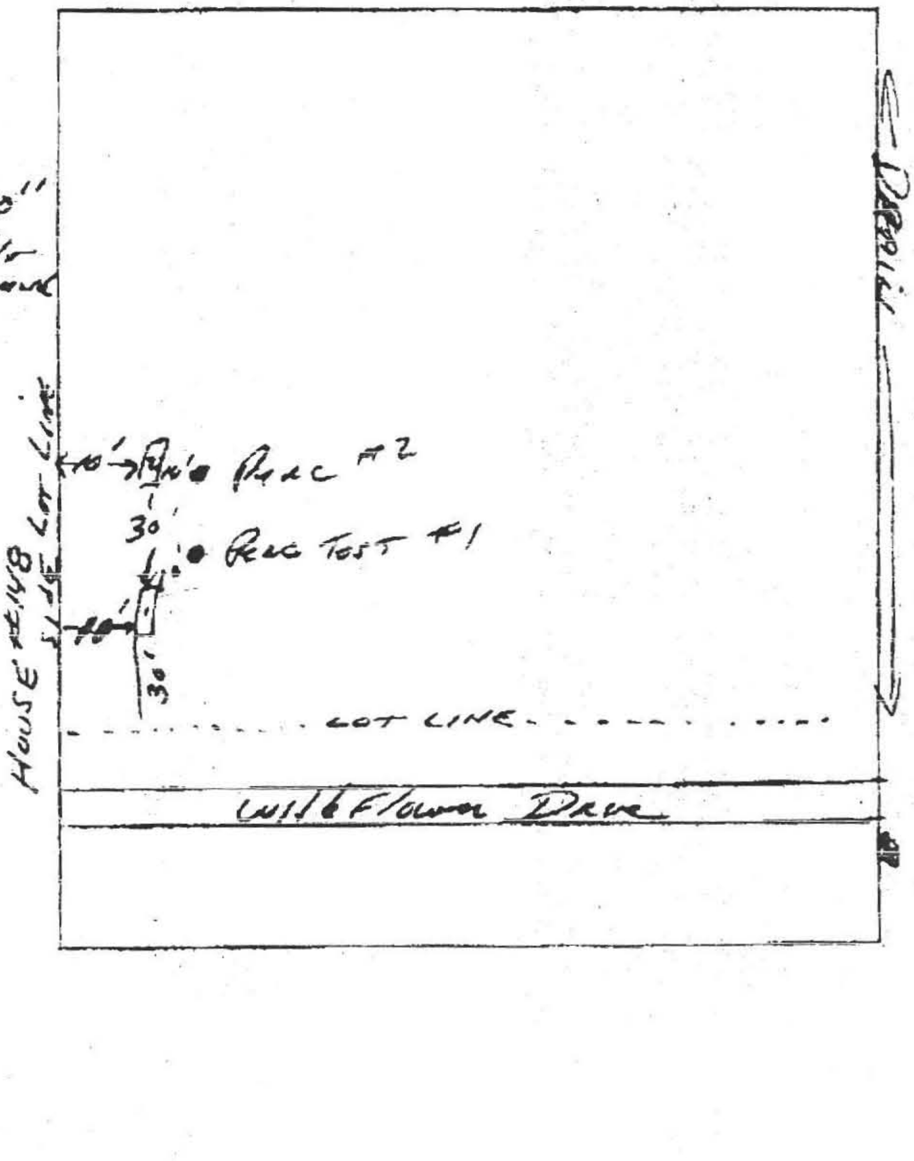
TEST 10:32 12"	10:35 8"	12" 10:57	8" 11:02
10:32 11"	10:36 7"	11" 10:59	7" 11:03
10:33 10"	10:38 6"	10" 11:00	6" 11:04
10:34 9"		9" 11:01	

RATE (2) RATE (2)

#1	#2
TOP 7	TOP 5
SUB 2...	SUB 22
Coarse Sand	Coarse Sand 80"
	Layers of Silt
12"/...	Dry/13 sand

TOP	TOP
SUB	SUB

TOP	TOP
SUB	SUB



DATE 3/27/98 LOCATION 153 (LOT) Wildflower LOT SIZE 5' (2)

OWNER Jason & Kathleen ADDRESS 23 Bedford Court TELE # 253 2981

P.E./RS Fitch/Filios FIRM Filios Ent OBSERVED BY David Zaiman

BACK HOE OPERATOR Hoe/5 BENCH MARK

PERC DEPTH 46" PRE SOAK TIME 10:17 12" PERC DEPTH 42" PRE SOAK TIME 10:52 12"

TEST			
10:32 12"	10:35 54 9"	12" 10:57	8" 11:02 14
10:42 54 11"	10:36 44 9"	11" 10:59 01	24 11:03"
10:53 44 10"	10:38 09 6"	10" 11:00 11	6" 11:04 10
10:24 54 5"		5" 11:01 22	

RATE (2) RATE (2)

#1

TOP 7
SUB 24
Coarse Sand 12"

#2

TOP 5
SUB 22
Coarse Sand 30"
Loamy fine Silty sand Dug 13

TOP	TOP
SUB	SUB

TOP	TOP
SUB	SUB