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	Board of Health.	Amherst	, <i>MA</i> .	TAH OF T
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Installer's Name	•	Designer's Name	ALAN Libres	
Address		Address	Bergues	]
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21E Site Investigations



COLD SPRING ENVIRONMENTAL CONSULTANTS, INC.

21E Site Investigations
Subsurface Investigations
Pollution Remediation
LSP on Staff

December 6, 1999

Mr. David Zarozinski, Inspection Services Amherst Board of Health Amherst, MA. 01007

> RE: Septic System Repair & Local Upgrade Approval Cowles Residence, 541 Bay Road, Amherst

Dear Mr. Zarozinski:

With the intent of full compliance with 310 CMR 15.000, (Sanitary Septic Code, Title V), and the understanding that maximum feasible upgrade should be achieved to maximize protection of public health and safety and the environment, a Local Upgrade Approval is requested for the repair of the system at the above mentioned property. It has been determined by the writer that strict enforcement of the code would be manifestly unjust (310 CMR 15.410). The following Local Upgrade Approval is noted:

-lack of 5 feet of minimum groundwater separation to the bottom of the stone of the absorption system (310 CMR 15.405), 4.0' proposed. (The situation requires this approval in order to minimize fill placement and improper runoff patterns toward the road.)

It is understood that the system was sized using an appropriate percolation test and soil identification technique approved by the Massachusetts DEP that utilizes the most conservative/appropriate loading factor for that soil type (I). It is also noted that the site is served by town water and there are no wells within 100 feet of the proposed system. This request approval will allow proper surface drainage from the dwelling toward the new SAS and minimize the intrusion of fill and raised surface in the frontyard.

It is my opinion that given all the possible scenarios for a new disposal system, and due to spatial constraints, this plan best meets the intent on the Sanitary Code.

It is understood that my client must provide you this letter. In addition a copy of the Local Upgrade Approval from your board and a Plan copy must be sent to Mass. DEP, 436 Dwight St., Springfield, 01103, prior to the start of construction.

Please feel free to contact me should you have any questions. Sincerely,

Cold, Spring Environmental Consultants, Inc.

Alan E. Weiss, M.S. President Principal Hydrogeologist Registered Sanitarian Lic. #933



· Percolation Tests and

Regulatory Compliance

Recycling and Solid Waste

Septic Designs

350 Old Enfield Road • Belchertown, MA 01007 • (413) 323-5957 Fax: 323-4916 1 i

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FORM 9A - APPLICATION FOR LOCAL UPGRADE APPROVAL PAGE 1 OF 5

# Commonwealth of Massachusetts AMHERST, Massachusetts

# Application for <u>Local Upgrade Approval</u> Title 5, 310 CMR 15.000 DEP Approved form required by 310 CMR 15.403(1)

<u>To be submitted to Local Approving Authority/Board of Health</u>: For the upgrade of a failed or nonconforming system with a design flow of < 10,000 gpd, where full compliance, as defined in 310 CMR 15.404(1), is not feasible.

<u>To be submitted to DEP:</u> For the upgrade of a failed or nonconforming system with a design flow of 10,000 up to 15,000 gpd and/or for upgrade of a state or federal facility, where full compliance, as defined in 310 CMR 15.404(1), is not feasible.

NOTE: Local upgrade approval shall not be granted for an upgrade proposal that includes the addition of new design flow to a cesspool or privy or the addition of new design flow above the existing approved capacity of a system constructed in accordance with either the 1978 Code or 310 CMR 15.000.

1) Facility/system owner

Name	MARJORIE COULES	·
Address	SYI BAY ZOAD	
Phone #	413-253-7594	
Address o	of facility <u>541 BAY</u> RD,	

2) Applicant (if different from above)

Name	SAME		 
Address			
Phone #		······································	 

3) Type of facility

residential commercial school institutional (Specify)



DEP APPROVED FORM - 12/07/95

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## FORM 9A - APPLICATION FOR LOCAL UPGRADE APPROVAL PAGE 2 OF 5





DEP APPROVED FORM - 12/07/95

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## FORM 9A - APPLICATION FOR LOCAL UPGRADE APPROVAL PAGE 3 OF 5

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Up to 25% reduction in subsurface disposal area design requirements (state required & proposed size)

Relocation of water supply well (identify well, describe relocation)

Reduction of required separation between bottom of SAS & high groundwater (specify proposed reduction & perc rate) (A') (A)

Other requirements of 310 CMR 15.000 that cannot be met (specify sections of the Code)

System upgrades that cannot be performed in accordance with 310 CMR 15.404 & 15.405, or in full compliance with the requirements of 310 CMR 15.000, require a variance pursuant to 310 CMR 15.410-15.417.

If the proposed upgrade involves a reduction in the required separation between the bottom of the soil absorption system and the high groundwater elevation, an Approved Soil Evaluator must determine the high ground water elevation pursuant to 310 CMR 15.405(1)(i)(1). The evaluator must be a member or agent of the local approving authority:

Distance from soil absorption system to high groundwater  $\mathcal{A}$  feet

As determined by:

Evaluator's name	ALAN	WEISS	+	DAVID	ZAHOZINSKI
Evaluator's signature	Ali	vering			
Date of evaluation	1104	99			



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DEP APPROVED FORM - 12/07/95

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## FORM 9A - APPLICATION FOR LOCAL UPGRADE APPROVAL PAGE 4 OF 5

## Notice to Abutters

No application for upgrade approval in which the setback from property lines or a private water supply well is reduced shall be complete until the applicant has notified all abutters whose property or well is affected by certified mail at least ten days before the Board of Health meeting at which the upgrade approval will be on the agenda. Such notice shall include the date, time and place where the upgrade approval will be discussed.

If the Department is the approving authority, then such notice to abutters must be completed prior to the date of submission of the application to the Department.

The notices to abutters shall include a copy of the completed application form and shall reference the standards set forth in 310 CMR 15.402 through 15.405.

List of affected Abutters:

Abutter Name	N/A	Date notified
Address		· · · ·
Abutter Name Address		Date notified
Abutter Name Address		Date notified
Abutter Name Address		Date notified

- 9) Explain why full compliance, as defined in 310 CMR 15.404(1), is not feasible (each section must be completed):
  - a) an upgraded system in full compliance with 310 CMR 15.000 is not feasible: Fill shald be mainized rest to Rock for numoff control.
  - b) an alternative system approved pursuant to 310 CMR 15.283-15.288 is not feasible: Not appropriate to Schatton



DEP APPROVED FORM - 12/07/95

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# FORM 9A - APPLICATION FOR LOCAL UPGRADE APPROVAL PAGE 5 OF 5

- a shared system is not feasible: c)
- d) connection to a sewer is not feasible:
- 10) An application for a disposal system construction permit, including all required attachments (e.g. plans & specifications, site evaluation forms), must accompany this application. Is the DSCP application attached? \_\_\_\_\_yes no
- 11) Certification

"I, the facility owner, certify under penalty of law that this document and all attachments, to the best of my knowledge and belief, are true, accurate, and complete. I am aware that there may be significant consequences for submitting false information, including, but not limited to, penalties or fine and/or imprisonment for knowing violations."

Uayai & Cowles 12/7/99 cility owner's signature Date

MARJORIE COULES Print Name

ALAN WEISS 12/6/99 Name of preparer Date

\_\_\_\_\_

350 Old Enfield, Ed., Belchertaun Telephone # & address of preparer

NOTE: Title 5, 310 CMR 15.403(4), requires the system owner or operator to submit to the Department a copy of the local upgrade approval upon issuance by the Board of Health and prior to commencement of construction.



DEP APPROVED FORM - 12/07/95

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• 21E Site Investigations



COLD SPRING ENVIRONMENTAL CONSULTANTS, INC.

21E Site Investigations
Subsurface Investigations

• Pollution Remediation • LSP on Staff

December 6, 1999

 Percolation Tests and Septic Designs

Regulatory Compliance

Recycling and Solid Waste

Mr. Peter Westover Amherst Conservation Commission Amherst Town Hall Amherst, Massachusetts 01002

> RE: Cowles Property, Septic Repair & Determination of Applicability 541 Bay Road, Amherst Cold Spring # 99-1137-1027

Enclosed please find the Repair Plan for the subsurface Disposal System for the above mentioned property. The no work line is to be delineated using properly buried (6"), staked silt fence. All above noted locations are referenced on the Figure 1: Site Locus Map and Figure 2: Site Plan, attached.

The Health Department will be contacted for proper septic repair permits. Wetland delineation was based on our own observation of topography,typical hydrophytic species, and hydrology observed in the field on November 4, 1999. The plan intention is to utilize the best part of the property with the least disturbance of the resource area.

Mitigative measures include a silt fence that establishes a no work zone (50') as well as follow-up mulching and seeding of yard margins. The leachfield exceeds the Title V (310 CMR 15.00) setback of 50 feet (60' feet noted to leaching trench). The disturbance area (work area) in the buffer zone would be limited to about 2,500 square feet.

Please note that because of the "limited impact", our experience with most communities is that this type of repair work can be completed with the a **Negative Determination** (with the noted mitigative measures followed as contingencies). The attached plan and form has been filed with the Springfield, DEP. Please notify me at your earliest convenience if you have any questions or wish for me to attend the hearing.

Sincerely, Cold Spring Environmental Consultants, Inc.

Principal Hydrogeologist Registered Sanitarian Lic. #933 President



PC: Ms. Marjorie Cowles 541 Bay Road, Amherst Mass. DEP-Wetlands Div. Mr. David Zarozinski, Inspection Services

> 350 Old Enfield Road • Belchertown, MA 01007 • (413) 323-5957 Fax: 323-4916

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# RECEIVED NOV 0 5 1999

والاحدام ويرجونه والمراب 1326 MARJORIE E. COWLES PH, 413-253-7594 541 BAY RD, AMHERST, MA 01002 53-7233/2118 DATE \$ 4 99 \$ 16000 PAY TO THE ORDER OF herot. Joan 100 nol DOLLARS 20 A D COOP GOLD ACOUNT COOPERATIVE swles FOR 1326 02 20 052035# 121 187 2 З В \$ HARLAND e#1032

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# FORM 11 - SOIL EVALUATOR FORM

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Page 1 of 3

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No	Date: 11-64-59
Commonwealth o Soil Suitability Assessment j	of Massachusetts , Massachusetts f <u>or On-site Sewage Disposal</u>
Performed By: AL Weiss Witnessed By: David Zarozansky	Date: 11-5-55
Losuce Address or 541 Bay TROAd Losi 253-7594	Owner's Name. MNYJORIE COWLES Address. and 541BAY Rd Telephone 1 253-7594
New Construction Repair	
Published Soil Survey Available: NoYesYear PublishedPublication ScaleDrainage ClassSoil LimitationsSurficial Geologic Report Available: NoYesYear PublishedPublication ScaleGeologic Material (Map Unit)Yes	Soil Map Unit
Landform Flood Insurance Rate Map:	
Above 500 year flood boundary No Yes	
Within 500 year flood boundary No Yes Within 100 year flood boundary No Yes Wetland Area: National Wetland Inventory Map (map unit) Wetlands Conservancy Program Map (map unit)	
Current Water Resource Conditions (USGS): Month Range :Above Normal Normal Below Norma Other References Reviewed:	I []



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DEP APPROVED FORM - 12/07/95

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FORM 12 - PERCOLATION TEST

Location Address or Lot No. 541 BAY ROAD

# COMMONWEALTH OF MASSACHUSETTS

, Massachusetts

Percolation Test*						
Date:	11- 5-99	Time:				
Observation Hole #	/					
Depth of Perc	50 "			·····		
Start Pre-soak	CAN T					
End Pre-soak	461d			<u> </u>		
Time at 12"	WATER			· · ·		
Time at 9"						
Time at 6"			······			
Time (9"-6")						
Rate Min./Inch	12					

\* Minimum of 1 percolation test must be performed in both the primary area AND reserve area.

Site Passed	Site Failed		
Performed By:	AL We	: 15 S	· · ·
Witnessed By:	DAVID D	Enroziusu:	 
Comments:			-



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DEP APPROVED FORM - 12/07/95



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24 - 1326 PL 160 055 11- 4 .99

FORM 11 - SOIL EVALUATOR FORM Page 2 of 3

Location Address or Lot No. 541 BAY Rd On-site Review Date: 11-9-99 Time: /1:00 Deep Hole Number Weather Location (identify on site plan) Land Use Slope (%) Surface Stones Vecetation .. ..... ..... Landform Position on landscape (sketch on the back) Distances from: Open Water Body feet Drainage way feet Possible Wet Area feet Property Line feet Drinking Water Well feet Other

Depth from Surface (inches)	Soil Harizon	Soil Texture {USDA}	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, 9 Gravel)
A	. 6"	FSL	10 /r		
B	24 "	FSL	3/2 10 VR 4/1	A	Lessa Fine Shed
ح	156"	Snad	104L 5/6	54 1011 510	Some Cobbles
				n.5.5/8	
	M OF 2 HOLES R	EQUIRED AT EV	EAY PROPOSE	D DISPOSAL A	REA



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ARGEO PAUL CELLUCCI

Governor

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

> TRUDY COXF. Secretary

DAVID B. STRUHS Commissioner

#### SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART A CERTIFICATION

Property Address: 541 BAY QA. AM HELST Name of Owner <u>M+Q7 Coulds</u> Address of Owner: <u>541 BAY 2D</u>, Date of Inspection: 10/27/99 AmHERGT, MA. CLOOZ Name of Inspector: (Please Print) <u>Alan E. Weiss</u>, R.S. I am a DEP approved system inspector pursuant to Section 15.340 of Title 5 (310 CMR 15.000) Company Name: <u>Cold Spring Environmental</u>, Inc. Mailing Address: <u>350 Old Enfield Rd.</u>, 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 function and maintenance of on-site sewage disposal systems. The system:

Passes		1/3/
Conditionally Passes		1126'
Needs Further Evaluation By the Local App	roving Authority	136
Fails		11 6
Inspector's Signature:	Date: 10 27 94	

The System Inspector shall submit a copy of this inspection report to the Approving Authority (Board of Health meter) 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 system owner and copies sent to the buyer, if applicable, and the approving authority.

NOTES AND COMMENTS

\* Sump pump SHOULD BE DISCONNECTED FROM SEPTIC. \* G.W. W/in 10" OF L.FIELD, (# FIELD IN EST. H. G.W.).

11-2-99 Dec D.J.

revised 9/2/98

Page 1 of 11





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Property Address: 54 ( BAY PD. Owner: Coultes Date of Inspection: 10/27/99

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

A. SYSTEM PASSES:

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

#### COMMENTS:

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#### 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 complying septic tank as approved by the Board of Health.

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).

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 passinspection if (with approval of the Board of Health):

broken pipe(s) are replaced

\_\_\_\_ obstruction is removed

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

Property Address: 54 ( BAY PD, Owner: CC where 5 Date of Inspection: 10 / 27 (95

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#### 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 IN ACCORDANCE WITH 310 CMR 15.303 (1)(b) 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 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 AND SAFETY AND THE 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 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

revised 9/2/98

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### Property Address: $541 \text{ BAY } ^{\mathcal{R}} D$ Owner: $(U \downarrow L = 5)$ Date of Inspection: $_{10}(27(99))$

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D. S	YSTEM	FAILS:
Youm	ust indic	ate either "Yes" or "No" to each of the following:
~	_ i hav deter	e determined that one or more of the following failure conditions exist as described in 310 CMR 15.303. The basis for this mination is identified below. The Board of <mark>Health should</mark> be contacted to determine what will be necessary to correct the failure.
Yes	No	
<u></u>		Backup of sewage into facility or system component due to an overloaded or clegged 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.
—		<sup>1</sup> 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 <u>NOT</u> due to clogged or obstructed pipe(s). Number of times pumped
<u> </u>	<del></del>	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.
	<del></del>	Any portion of a cesspool or privy is within 50 feet of a private water supply well.
	· • <u>-</u>	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. L <b>a</b>	RGE SY	STEM FAILS:

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:

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	
<del></del>		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 upgrade the system in accordance with 310 CMR 15.304(2). Please consult the local regional office of the Department for further information.

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#### SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART B CHECKLIST

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Property Address: 256-4053 Owner: Cow CC5 Date of Inspection: 10 124 19

SubSurface Disposal Systems.

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

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Yes	No	
$\leq$		Pumping information was provided by the owner, occupant, or Board of Health.
<u>~</u>	·_ ·	None of the system-components have been pumped for at least two weeks and the system has been receiving sessual flow rates during that period. Large volumes of water have not been introduced into the system recently or as part of this inspection.
<u>~</u> 14	_	As built plans have been obtained and examined. Note if they are not available with N/A.
$\leq$		The facility or dwelling was inspected for signs of sewage back-up.
$\underline{\checkmark}$	_	The system does not receive non-sanitary or industrial waste flow.
~		The site was inspected for signs of breakout.
<u>`</u>		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:
<u> </u>		Existing information. For example, 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)]
<u> </u>		The facility owner (and occupants, if different from owner), were provided with information on the proper-maintenance of

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SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPE	CTION FORM	
SYSTEM INFORMATION		
Property Address: 541 BAY R) Owner: (Ow LES Date of Inspection: 10   27   99		
FLOW CONDITIONS		
RESIDENTIAL: 2		
Design flow: <u>220</u> g.p.d./bedroom. Number of bedrooms (design): <u>2</u> Total DESIGN flow <u>220</u> Number of current residents: <u>1</u> Garbage grinder (yes or no): <u>N</u>		
Laundry (separate system) (yes or no): <u>N</u> ; If yes, separate inspection required Laundry system inspected (yes or no)		
Seasonal use (yes or no): M		
water meter readings, it available flast two year's usage (gpd):		
Last date of occupancy: <u>Content</u>		
COMMERCIAL/INDUSTRIAL:     A/ A       Type of establishment:     A/ A       Design flow:     gpd. ( Based on 15.203)       Reside of design flow:		
Industrial Waste Holding Tank present: (ves 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:	•	
System pumped as part of inspection: (yes or no) If yes, volume pumped:gallons Reason for pumping:		
TYPE OF STSTEM		
Single cessool		
Overflow cesspool		
Privy		
Shared system (yes or no) (if yes, attach previous inspection records, if any)		
I/A Technology etc. Attach copy of up to date operation and maintenance contract Tight TankCopy of DEP Approval		
Other		
APPROXIMATE AGE of all components, date installed (if known)-and source of information:	35415+	
Sewage odors detected when arriving at the site: (yes or no) <u>N</u>		

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SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM	<u>.</u>
SYSTEM INFORMATION (continued)	
Property Address: 541 BAY 20 Owner: COWES Date of Inspection: 10/27/99	
BUILDING SEWER: (Locate on site plan)	
Depth below grade: 24 Material of construction: cast iron 40 PVC other (explain) Black Olympe burg	
Distance from private water supply well or suction line <u>10<sup>1</sup></u> + Diameter $\underline{-4^{11}}$ Comments: (condition of joints, venting, evidence of leakage, etc.)	
SEPTIC TANK:	
Depth below grade: <u>20<sup>4</sup></u> Material of construction:concretemetalFiberglassPolyethyleneother(explain)	
If tank is metal, list age Is.age.confirmed by Certificate of Compliance (Yes/No)	
Dimensions: $9 \times 4' \times 4'$ (800 gali).	
Distance from top of sludge to bottom of outlet tee or baffle: UNABLE to cfrsharvish.	·
Scum thickness: 121	
Distance from bottom of scum to bottom of outlet tee or baffle: 12 SCM How dimensions were determined:	
Comments:	
(recommendation for pumping, condition of inlet and outlet tees or baffles, depth of liquid level in relation to outlet invert, structural- evidence of leakage, etc.) <u>SUDE BAFFLES OK</u> <u>BILL</u> SUDCH <u>NUMPEL</u> <u>354</u>	ntegrity, 3
······································	
GREASE TRAP:	
Depth below grade: Material of construction:concretemetalFiberglassPolyethyleneother(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:	
	SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM         Property Address: Bill Bar (L)         SYSTEM INFORMATION (continued)         Property Address: College         Date of inspection: college         Date of inspection: college         Distance from private water supply well or suction linerol +

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Page 7 of 11

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È	SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
	PART C
	SYSTEM INFORMATION (continued)
•	
	Property Address: SYL BAY FD
	Owner: CALES
	Date of Inspection: in (and 14)
	1
	TIGHT OR HOLDING TANK: $\mathcal{N}$ (Tank must be pumped prior to, or at time of, inspection)
	(locate on site plan)
	Depth below grade:
	Material of construction: concrete metal Fiberolass Polyethylene other(explain)
	Dimensions:
	Capacity: gallops
	Design flow: gallons/day
	Alarm resent
	Alam lesen
	Commente:
	Condition of inlet ton condition of slorm and float ewitches, etc.)
	Denth of liquid level above quilet invest. At 1910 A.
	Septir of addid lever above outlet invert. <u>PVT rec</u>
	comments:
	note it level and distribution is equal, evidence of solids carryover, evidence of leakage into or out of box, etc.)
	Dox Conbacedo · News represence
	UMP CHAMBER: 1
	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.)

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SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM	
PART C	
SYSTEM INFORMATION (continued)	
i Demonte Address CILL ANY AN	
Charless: 511 (147 4)	
Date of hispecuoit. 10/27171	
SOIL ABSORPTION SYSTEM (SAS):	
(locate on site plan, if possible; excavation not required, location may be approximated by non-intrusive methods)	
If not located, explain:	
W. Table in Test Art ~ 10-12" from Luling (S6") (Lines et 48")	
Type:	
leaching pits, number:	
leaching chambers, number:	
leaching galleries, number:	
leaching trenches, number, length:	
leaching fields, number, dimensions: $\swarrow$ (20' (20') 3 P (PES)	
overflow cesspool, number:	
Alternative system:	
Name of Technology:	
Comments:	
(note condition of soil, signs of hydraulic failure, level of ponding, damp soil, condition of vegetation, etc.)	
LIELD TO CLOSE, (<1') FROM ESHWT.	
CESSPOOLS: <u>N</u>	
(locate on site plan)	
Number and configuration:	
Depth-top of liquid to inlet invert:	
Depth of solids laver:	
Dimensions of cessnool	
Materials of cosspool.	
waterials of consuderator:	
indication of groundwater:	
innow (cesspool must be pumped as part of inspection)	
Comments:	
note condition of soil, signs of hydrautic failure, level of ponding, condition of vegetation, etc.)	
PRIVY: <u>N</u>	
PRIVY: M locate on site plan)	
PRIVY: <u>M</u> locate on site plan)	
PRIVY: M locate on site plan) Materials of construction: Dimensions:	
PRIVY: Nocate on site plan) Materials of construction: Depth of solids:	
PRIVY: M locate on site plan) Materials of construction: Dimensions: Depth of solids: Comments:	-
PRIVY: <u>N</u> locate on site plan) Materials of construction: Dimensions: Depth of solids: Comments: comments:	-
PRIVY: locate on site plan) Materials of construction: Depth of solids: Comments: note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.)	
PRIVY: locate on site plan) Materials of construction: Depth of solids: Comments: note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.)	
PRIVY: locate on site plan) Materials of construction: Depth of solids: Depth of solids: Comments: note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.)	
PRIVY: locate on site plan) Materjals of construction: Depth of solids: Depth of solids: Comments: note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.)	
PRIVY: Naterjals of construction: Dimensions: Depth of solids: 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.)	
PRIVY: M 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.)	
PRIVY: M 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.)	
PRIVY: M 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.)	•
PRIVY: 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.)	

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

Property Address: SY( BAY &D Owner: COULES Date of Inspection: 10/27/99

#### SKETCH OF SEWAGE DISPOSAL SYSTEM:

include ties to at least two permanent reference landmarks or benchmarks locate all wells within 100' (Locate where public water supply comes into house)



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ີ. ຈ	`€. €:	۶ ۴	UBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART C SYSTEM INFORMATION (continued)
¢	Property Owner:	Address: STI BAT PD COULES	
	Date of I	nspection: 1027197	
		_	
	NRCS	Report name	
		Soil Type	
		Typical depth to groundwater	
	USGS	Date website visited	
		Observation Wells checked	
		Groundwater depth: Shallow	ModerateDeep
	SITE EXA	AM Slope	
		Surface water	
		Check Cellar	
		Shallow wells	
	Estimate	d Depth to Groundwater $5^+$ Fee	(STREAM SU'AWAY - 4' BECON GRADE)
	Flease in		terraine riigh drouhdwater Lievation.
	Ob	tained from Design Pl <mark>ans on re</mark> co	rd
	Ob	served Site (Abutting property, o	bservation hole, basement sump etc.)
	Def	termined from local conditions	
	Cho	ecked with local Board of health	6
	Chi	ecked FEMA Maps	
	Chi	ecked pumping records	*
	Che	ecked local excavators, installers	
	Use	ed USGS Data	
ł	Describe	how you established the High G	roundwater Elevation. ( <u>Must</u> be completed) , WORK. 'TOPO + VEGITATION',

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AMHERST Massachusetts

TOWN HALL 4 BOLTWOOD AVENUE AMHERST, MA. 01002-2351 INSPECTION SERVICES DEPARTMENT Fax (413) 256-4041 Phone (413) 256-4030

DATE:	December 10, 1999
TO:	Board of Health
FROM:	David Zarozinski, Sanitarian
RE:	Reducing the groundwater separation from a five-foot (5') to a four-foot
	(4') separation. (Regulation 15,405 (I) copy enclosed)

On November 5, 1999, Mr. Alan Weiss from Cold Spring Environmental, and I conducted a percolation test at the home of Ms. Marjorie Cowles of 541 Bay Road, Amherst.

The perc rate was less than two (2) minutes an inch with a water table at seventy-eight (78) inches. The oxide stain was noted at fifty-four (54) inches, and the soil conditions were loose to fine sand with cobbles.

I would recommend approval of this variance for the following reasons:

- 1. Garbage grinder will be removed
- 2. Town water is available and there are no wells within 100 feet of system
- 3. System will be designed with a four (4) foot separation

Finally, the system is designed to allow for both the best feasible upgrade within the borders of this lot, and have the least effect on public health, safety and the environment.



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SCALE: 1"=2,083 FT.

0 FEET 2000

USGS 7.5 MIN. QUAD.

# **TEST PIT LOGS**

TP-2 E	EL. 94.85'		
0-6"	FINE SANDY LOAM TOPSOIL (10YR 2/3),	А	
6-24"	FINE SANDY LOAMY SUBSOIL	BW	
24-106"	C. SAND, W/ GRAVEL ( 10YR.5/6)	C1	
EOP 106	3 <sup>n</sup>		
ESHWT=	54"= 90.35		
78." 106" 106"+	SEEPS STATIC H20		
100 -	DEDROCK		

OXIDES (7.5Y 5/8, 10YR 5/8)





Side Area: NA,

54"

- Tot. Area: 149 osf x 0.74 gal.sf. = 362 gal./day. 3. NOI GARBAGE DISPOSAL ALLOWED 4. ALL D. BOX OUTLET PIPES LEVEL FOR 2', ALL PERF./PIPE MIN. SDR . 35.
- 5. NO WELLS NOTED WITHIN 100 FEET OF SAS SYSTEM ...
- 6. NOI WETLANDS NOTED WITHIN 50 FEET OF SYSTEM
- 6a wetland /Intermittant stream 60' FROM LEACH FIELD. FILE CONSERVATION RFD. 7. PRE & POST CONTOURS NOTED AS NECESSARY.
- 8. RESERVE AREA NOT REQUIRED
- 9. SLOPE CALCS NOT APPLIC .(SEE CONTOURS) 3:1 SLOPE MET.
- 10. 2% MIN. SLOPE OVER SAS., SLOPE FINAL GRADE AWAY FROM SILL FOR RUNOFF
- PUIMP/REMOVE/FILL OLD SYSTEM TO NOT INTERFERE WITH NEW SYSTEM. 11. USIE NEW 1500 GAL. S. TANK . PUMP. CRUSH AND FILL OLD S. TANK.
- 12. INSTALL SILTFENCE PRIOR TO WORK.

MAXIMUM FEASIBLE UPGRADE REQUEST TO 4 FOOT SEPARATION -PERC TEST BY A. WEISS., ON 11/04/99, (D. ZAROZINSKI INSP..).

-CLASIS I SOILS IDENTIFIED. PERC. RATE <2 MIN/IN. FOR LOADING FACTOR

-CLASIS I SOIL, SAND @ 0.74 GAL/SF., BM=100 @ SILL TOP

SICALE: NOTED	APPROVED BY:	
DIATE: 12/6/99	- AU	REVISED



COLD SPRING ENVIRONMENTAL, INC

99-1137-1027