

City/Town of Petersham

A	. Facility Information	· · · · · · · · · · · · · · · · · · ·			
	AHAVA Realty Trust (% Mr. Chuck	Berube)			
	Owner Name				
	Old Hardwick Road (between 26 -	36)			
	Street Address			Map/Lot #	
	Petersham			MA	
	City			State Zip Code	
Ŕ.	Site Information				······································
1.	(Check one) New Const	truction	☐ Upgrade	Repair	
2.	Soil Survey Available?	⊠ Yes	□ No	If yes:	Soil Map Unit
	Soil Name		7, 11, 11, 11, 11, 11, 11, 11, 11, 11, 1	Soil Limitations	
	Geologic/Parent Material			Landform	
3.	Surficial Geological Report Available	?⊠ Yes	☐ No	If yes: Year Published/Source Publication Scale	Map Unit
4.	Flood Rate Insurance Map				
	Above the 500-year flood boundary? If Yes, continue to #5.	☐ Yes	☐ No	Within the 100-year flood boundary?	⊠ No
5.	Within a velocity zone?	☐ Yes	⊠ No		
6.	Within a Mapped Wetland Area?	☐ Yes	⊠ No	MassGIS Wetland Data Layer:	
	• •		23 110	Wetland Type	
7.	Current Water Resource Conditions	s (USGS):	Month/Year	Range: Above Normal Normal Belo	w Normal
8.	Other references reviewed:	V=\	Wond 1 Cal		



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C.	On-Site Re	eview (minimum o	f two holes re	quired at every pro	posed prim	nary and reserve dispo	osal area)
		tion Hole Number:	OH A & B		8:00 am Time	Weather	·
1.	Location						
	Ground Elevation	on at Surface of Hole:	feet	Latitu	de/Longitude	e: <u>/</u>	·
	Description of L	ocation:					
2.	Land Use	Woodland			Large		
		(e.g., woodland, agricultura hard & soft wood	il field, vacant lot, etc	5.)	Surface Stones	(e.g., cobbles, stones, boulders,	etc.) Slope (%)
		Vegetation		Landform		Position on Landscape (SU, SI-	f, BS, FS, TS)
3.	Distances from	Open Water Boo	ty 100+ feet	Drainage Way	75+ feet	Wetlands	100+ feet
		Property Line	20+ feet	Drinking Water V	Vell 100+	Other	feet
4.	Parent Material	Loamy Sand		Unsuital	ble Materials	Present: Yes	⊠ No
	If Yes:	Disturbed Soil] Fill Material	☐ Impervious Layer(s)	□ v	Veathered/Fractured Rock	☐ Bedrock
5.	Groundwater O	bserved:	⊠ No	If yes:	None	None	
	Estimated Dept	h to High Groundwater	: OH A 36" OH	B 36"	Depth Wee	eping from Pit Depth S	Standing Water in Hole
	•	•	inches	elevation			



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Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (continued)

Deep Observation Hole Number:

OH A & B

Depth (in.)	Soil Horizon/	Soil Matrix: Color-	Redoximorphic Features		Soil Texture	Coarse Fragments % by Volume			Soil	Other	
Depui (m.)	Layer	Moist (Munsell)	Depth	Color	Percent	(USDA)	Gravel	Cobbles & Stones		Consistence (Moist)	Other
0-6"	A	10yr3/4				fsl	2	large	massive		
6-14"	BW	2.5y5/8				sl	10	small	friable		
14-72"	С	2.5y5/4	36"	7.5yr5/8	>30	ls	75	mediu m	granular		
0-12"	A	10уг3/4				fsl	2	large	massive		
12-24"	BW	10yr5/8				sl	12	small	friable		
24-72"	С	2.5y5/6	36"	7.5yr5/8	>30	ls	77	mediu m	granular		

Additional Notes:			
	·	11.40.4	



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C.	On-Site Re	eview (continued)							
	Deep Observa	tion Hole Number:	OH C & OH D	12/19/2015 Date	8am Time		sunny Weather		
1.	Location								
	Ground Elevation	on at Surface of Hole:	feet	Latitude/	Longitud	le:	1		
2.	Land Use	Woodland (e.g., woodland, agricultural than & Softwood	field, vacant lot, etc.)		Large Surface S	Stones (e.g., cobb	oles, stones, b	ooulders, etc.)	Slope (%)
3.	Distances from	Vegetation	400	Landform	•	7F.		andscape (S	U, SH, BS, FS,
J .	Distances from	Open Water BodyProperty Line	100+ feet 30+	Drainage WayDrinking Water	Ĩ	75+ feet 100+	Wetlands Other		100+ feet
4.	Parent Material	: Loamy sand	feet	Unsuita		^{feet} erials Present	: 🗆	Yes	feet ⊠ No
	If Yes:	Disturbed Soil	Fill Material [☐ Impervious Layer(s))	☐ Weathered	d/Fractured l	Rock [] Bedrock
5.	Groundwater O	bserved: Yes	⊠ No	If yes:	No.	ne oth Weeping from	Pit	None Depth Stand	ling Water in Hole
	Estimated Dept	h to High Groundwater:	OH C 36" OH I	O 36" elevation		-		•	-



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C. On-Site Review (continued)

Deep Observation Hole Number:

OHC&OHD

Depth (in.)	Soil Horizon/	il Horizon/ Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features		Soil Texture	Coarse Fragments % by Volume			Soil	Other	
Depth (m.)	Layer		Depth	Color	Percent	(USDA)	Gravel	Cobbles & Stones		Consistence (Moist)	Outer
0-8"	A	10yr3/4				fsl	2	small	massive		
8-20"	BW	2.5y5/6				sl	12	mediu m	friable		
20-72"	С	2.5y5/8	36"	7.5yr5/8	>30	ls	75	large	granular		
0-9"	A	10yr3/4				fsl	2	small	massive		
9-18"	BW	2.5y5/6				sl	10	mediu m	friable		
18-67"	С	2.5y5/8	36"	7.5yr5/8	>30	ls	75	large	granular		

Additional Notes:	



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D. C	Determination	n of High Gro	undwater Elev	ation			
1. M	lethod Used:			Obs. Hole #A	& B	Obs. Hole # <u>C &</u>	D
	Depth observed	standing water in o	bservation hole				
	- ·			inches		inches	
	Depth weeping	from side of observa	ation hole			la chara	
K	7 Donath As as il as	desimento festados de la composição de l	- (11 1)	inches 36"		inches 36"	
\Sigma	Depth to soil red	doximorphic features	s (mottles)	inches		inches	
Г	Depth to adjuste	ed seasonal high gro	oundwater (S _h)				
	(USGS methode			inches		inches	
	Index We	ell Number	Reading Date		<u>,</u>		
	$S_h = S_c - \{S_r \times ($	OWc OWmax)/OWr	1				
	Obs. Hole#	S _c	Sr	OWc	OWmax	OW _r	Sh
	Obs. Hole#	S _c	Sr	OWc	OW _{max}	OW _r	Sh
E. C	epth of Perv	∕ious Materia					
1. D	epth of Naturally (Occurring Pervious N	Material				
а	. Does at least for absorption systems		occurring pervious ma	terial exist in all areas	s observed thro	ughout the area propos	sed for the so
		☐ No					
b	. If yes, at what d	lepth was it observe	ed?	Upper boundary:	14"	Lower boundary:	72"
	-				inches		inches
С	. If no, at what de	epth was impervious	s material observed?	Upper boundary:		_ Lower boundary:	inches
					inches		inches



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Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

F. Board of Health Witness	
Mr. Phillip Leger	Petersham
Name of Board of Health Witness	Board of Health
G. Soil Evaluator Certification	
evaluations and that the above analysis has been per	ent of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil formed by me consistent with the required training, expertise and experience results of my soil evaluation, as indicated in the attached Soil Evaluation Form, 0 through 15.107.
Phile It	12/19/2015
Signature of Soil Evaluator	Date
Richard C Stevens Se # 2347	6/30/16
Typed or Printed Name of Soil Evaluator / License #	Expiration Date of License

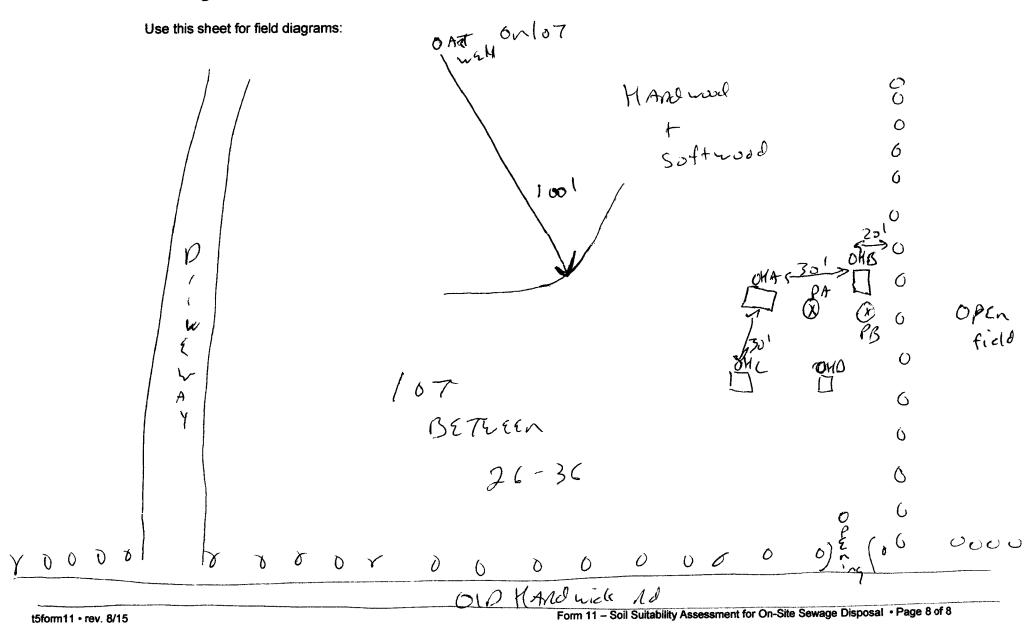
Note: In accordance with 310 CMR 15.018(2) this form must be submitted to the approving authority within 60 days of the date of field testing, and to the designer and the property owner with <u>Percolation Test Form 12.</u>



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Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

Field Diagrams





Commonwealth of Massachusetts City/Town of Petersham Percolation Test Form 12

Percolation test results must be submitted with the Soil Suitability Assessment for On-site Sewage Disposal. DEP has provided this form for use by local Boards of Health. Other forms may be used, but the information must be substantially the same as that provided here. Before using this form, check with the local Board of Health to determine the form they use.

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



Owner Name				
Old Hardwick Road				
Street Address or Lot #		MAA		
Petersham		MA State	Zip Co	
City/Town		State	ip	
Contact Person (if different from Owner)		Telephone Number		
Test Results				
	12/19/2015	8:40 am	12/19/2015	8:50am
	Date	Time	Date	Time
	PA		PB	
Observation Hole #	171			
	36"		32"	
Depth of Perc				
Start Pre-Soak	8:41 am		8:51 am	
Start Fre-Suak			0.06	
End Pre-Soak	8:58 am		9:06 am	
End 110 Coak	0.50		9:06 am	
Time at 12"	8:58 am		9.00 am	
	9:12 am		9:20 AM	
Time at 9"	V. 12 VIII			
	9:31 am		9:45 am	
Time at 6"				
T' (08 08)	18		25	
Time (9"-6")	-		نف د د د د د د	
Rate (Min./Inch)	6 min/ inch		9 min / inch	
Nate (Millianien)	T-16 D-1-1	⊠	Test Passed:	Ŋ
	Test Passed:	씜	Test Failed:	
Dishard C Chauses SE # 2247	Test Failed:	ليا	roger allea.	اسسا
Richard C Stevens SE # 2347 Test Performed By:				
Mr. Phillip Leger				
Board of Health Witness				
Comments:				
Artesion Well on site				