

Commonwealth of Massachusetts
City/Town of GROTON
Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

A. Facility Information

GROTON AFFODABLE HOUSING TRUST

HOYT'S WHARF ROAD 249/51
 Street Address Map/Lot #
 GROTON 01450
 City Zip Code
 MA State

B. Site Information

1. (Check one) New Construction Upgrade Repair

2. Soil Survey Available? Yes No 653
 UDOTHERENTS, SANDY Soil Map Unit
 Soil Name USDA
 If yes: Source
 WATER TABLE

3. Surficial Geological Report Available? Yes No If yes: Year Published/Source Publication Scale Map Unit
 LOAMY ALLUVIUM AND/OR SANDY GLACIOFLUVIAL KAME TERRACE
 DEPOSITS Landform

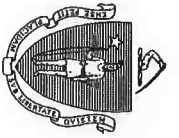
4. Flood Rate Insurance Map

Above the 500-year flood boundary? Yes No Within the 100-year flood boundary? Yes No
 Within the 500-year flood boundary? Yes No Within a velocity zone? Yes No

5. Wetland Area: Wetlands Conservancy Program Map Map Unit Name

6. Current Water Resource Conditions (USGS): Range: Above Normal Normal Below Normal
 3/24 Month/Year

7. Other references reviewed: _____



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C. On-Site Review (*minimum of two holes required at every proposed primary and reserved disposal area*)

Deep Observation Hole Number: 424-1-7 Date: 4/30/2024 Time: 9:00 AM Weather: SUNNY-60's

1. Location

Ground Elevation at Surface of Hole: _____ Location (identify on plan): _____

2. Land Use

WOODS, FORMER GRAVEL PIT NONE Surface Stones 3-8%+/-
 (e.g., woodland, agricultural field, vacant lot, etc.)
PINE & OAK TREES KAME TERRACE
 Vegetation Landform Position on Landscape (attach sheet)

3. Distances from:

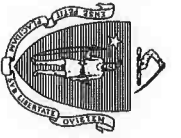
Open Water Body 100'+ Drainage Way 100'+ Possible Wet Area VARIES
 feet feet feet
 Property Line 50'+ Drinking Water Well 100'+ Other _____
 feet feet feet

4. Parent Material:

PROGLACIAL OUTWASH Unsuitable Materials Present: Yes No

5. Groundwater Observed: Yes

No Disturbed Soil Fill Material Impervious Layer(s) Weathered/Fractured Rock Bedrock
 Estimated Depth to High Groundwater: SEE LOGS inches If yes: SEE LOGS Depth Weeping from Pit SEE LOGS Depth Standing Water in Hole
 elevation



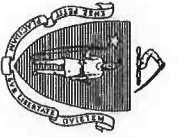
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C. On-Site Review (continued)

Deep Observation Hole Number: 424-1

Depth (in.)	Soil Horizon/ Layer	Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
30	MIXED										
90	C	10YR 5/3	36	7.5YR6/1		CS&G			MASSIVE	FRIABLE	
				7.5 YR5/8	5%						

Additional Notes: NO REFUSAL - GWO @ 54"



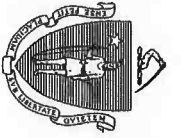
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C. On-Site Review (continued)

Deep Observation Hole Number: 424-2

Depth (in.)	Soil Horizon/ Layer	Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
8	A	10YR 3/3				S.L.			CRUMB	FRIABLE	
30	C1	10YR 5/4		7.5YR6/1		F-M S			MASSIVE	FRIABLE	
84	C2	10YR 5/3	42	7.5 YR5/8	5%	CS			MASSIVE	LOOSE	

Additional Notes: NO REFUSAL - GWO @ 60"



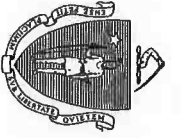
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C. On-Site Review (continued)

Deep Observation Hole Number: 424-4

Depth (in.)	Soil Horizon/ Layer	Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
9	A	10YR 3/3				S.L.			CRUMB	FRIABLE	
26	C1	10YR 5/4		7.5YR6/1		S&G			MASSIVE	FRIABLE	
54	C2	10YR 5/3	54	7.5 YR5/8	5%	FS			MASSIVE	FRIABLE	
72	C3	10YR 5/4				CS&G			MASSIVE	LOOSE	
84	C4	10YR/54				LFS			MASSIVE	FRIABLE	

Additional Notes: NO REFUSAL - GWO @ 72"



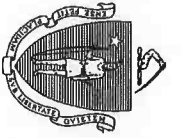
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C. On-Site Review (continued)

Deep Observation Hole Number: 424-5

Depth (in.)	Soil Horizon/ Layer	Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
10	A	10YR 3/3				S.L.			CRUMB	FRIABLE	
28	C1	10YR 5/4		7.5YR6/1		S&G			MASSIVE	FRIABLE	
84	C2	10YR 5/3	60	7.5 YR5/8	5%	FS			MASSIVE	FRIABLE	

Additional Notes: NO REFUSAL - GWO @ NONE



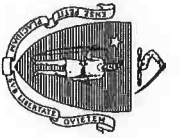
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C. On-Site Review (continued)

Deep Observation Hole Number: 424-6

Depth (in.)	Soil Horizon/ Layer	Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
10	A	10YR 3/3				S.L.			CRUMB	FRIABLE	
86	C	10YR 5/4	80	7.5 YR5/8	5%	MS			MASSIVE	FRIABLE	

Additional Notes: NO REFUSAL - GWO @ 86"



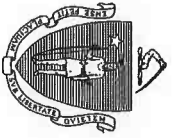
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C. On-Site Review (continued)

Deep Observation Hole Number: 424-7

Depth (in.)	Soil Horizon/ Layer	Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
10	A	10YR 3/3				S.L.			CRUMB	FRIABLE	
70	C1	10YR 5/3		7.5YR6/1		MS			MASSIVE	FRIABLE	
84	C2	10YR 5/4	60	7.5 YR5/8	5%	LFS			MASSIVE	FRIABLE	

Additional Notes: NO REFUSAL - GWO @ 80"



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D. Determination of High Groundwater Elevation

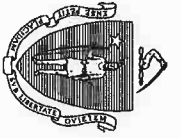
1. Method Used:

- Depth observed standing water in observation hole
 A. SEE LOGS _____ inches
 B. SEE LOGS _____ inches
- Depth weeping from side of observation hole
 A. SEE LOGS _____ inches
 B. SEE LOGS _____ inches
- Depth to soil redoximorphic features (mottles)
 A. SEE LOGS _____ inches
 B. SEE LOGS _____ inches
- Groundwater adjustment (USGS methodology)
 A. _____ inches
 B. _____ inches

2. Index Well Number _____ Reading Date _____ Index Well Level _____
 Adjustment Factor _____ Adjusted Groundwater Level _____

E. Depth of Pervious Material

1. Depth of Naturally Occurring Pervious Material
 - a. Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system?
 Yes No
 - b. If yes, at what depth was it observed? Upper boundary: SEE LOGS _____ inches Lower boundary: SEE LOGS _____ inches



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F. Certification

I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017. I further certify that the results of my soil evaluation, as indicated in the attached Soil Evaluation Form, are accurate and in accordance with 310 CMR 15.100 through 15.107.

Signature of Soil Evaluator 5/2/2024
 WILLIAM J. "JACK" MALONEY, JR. Date
 Typed or Printed Name of Soil Evaluator / License # 7/13
 KALENE GENDRON Date of Soil Evaluator Exam
 Name of Board of Health Witness NABOH AGENT
 Board of Health

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 [Percolation Test Form 12](#).