Commonwealth of Massachusetts
City/Town of

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

A. Facility Information

GROTON AFFORDABLE HOUSING TRUST
Owner Name

HOYT'S WHARF ROAD — Street Address
249/51 — Map/Lot #

GROTON — City
MA — State
01450 — Zip Code

B. Site Information

1. (Check one) ☑ New Construction ☐ Upgrade ☐ Repair

2. Soil Survey Available? ◉ Yes ○ No If yes: USDA (Source) 653 (Soil Map Unit)

UDORTHENTS, SANDY — Soil Name
WATER TABLE — Soil Limitations

3. Surficial Geological Report Available? ◉ Yes ○ No If yes: (Year Published/Source) (Publication Scale) (Map Unit)

LOAMY ALLUVIUM AND/OR SANDY GLACOFLUVIAL DEPOSITS — Geologic/Parent Material
KAME TERRACE — 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): 7/24 (Month/Year) Range: ☐ Above Normal ☐ Normal ☑ Below Normal

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: 824-1-3 | 8/9/2024 (Date) | 9:00 A.M. (Time) | CLOUDY, DRIZZLE, 80's (Weather)

1. Location

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

2. Land Use: WOODS, FORMER GRAVEL PIT (e.g., woodland, agricultural field, vacant lot, etc.) | NONE (Surface Stones) | 3-8% (Slope (%))

PINE & OAK TREES (Vegetation) | KAME TERRACE (Landform) | VARIES (Position on Landscape (attach sheet))

3. Distances from:

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

4. Parent Material: PROGLACIAL OUTWASH Unsuitable Materials Present: ○ Yes ◉ No

If Yes: ☐ Disturbed Soil ☐ Fill Material ☐ Impervious Layer(s) ☐ Weathered/Fractured Rock ☐ Bedrock

5. Groundwater Observed: ☐ Yes ☐ No If yes: SEE LOGS (Depth Weeping from Pit) SEE LOGS (Depth Standing Water in Hole)

Estimated Depth to High Groundwater: SEE LOGS (inches) SEE LOGS (elevation)

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C. On-Site Review (continued)

Deep Observation Hole Number: 824-1

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			
10	A	10YR 3/3				S.L.			CRUMB	FRIABLE	
96	C	10YR 5/4	80"			M.S.			MASSIVE	FRIABLE	

Additional Notes:

NO GWO, NO REFUSAL, VERY DAMP SAIL AT BOTTOM OF HOLE

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C. On-Site Review (continued)

Deep Observation Hole Number: 824-2

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			
12	A	S.L.				S.L.			CRUMB	FRIABLE	
72	C1	M.S.				M.S.			MASSIVE	FRIABLE	
96	C2	F-M S.	@72			F-S S.			MASSIVE	FRIABLE	

Additional Notes:

NO GWO, VERY MOIST SOILS AT 72", NO REFUSAL

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C. On-Site Review (continued)

Deep Observation Hole Number: 824-3

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	
14	B	10YR 5/4				L.S.			S.A.B.	FRIABLE	
66	C1	10YR 5/3				F-M S.			MASSIVE	FRIABLE	
96	C2	10YR 5/4	@84"			M.S.			MASSIVE	FRIABLE	

Additional Notes: NO GWO, NO REFUSAL

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D. Determination of High Groundwater Elevation

1. Method Used:

	A.	B.
☑ Depth observed standing water in observation hole	inches	inches
☑ Depth weeping from side of observation hole	inches	inches
☑ Depth to soil redoximorphic features (mottles)	inches	inches
☐ Groundwater adjustment (USGS methodology)	inches	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: 9/10/12" inches Lower boundary: 96" 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	8/9/2024 Date
WILLIAM J. "JACK" MALONEY, JR. Typed or Printed Name of Soil Evaluator / License #	7/13 SE#13740 Date of Soil Evaluator Exam
KALENE GENDRON Name of Board of Health Witness	NABOH/GROTON 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.

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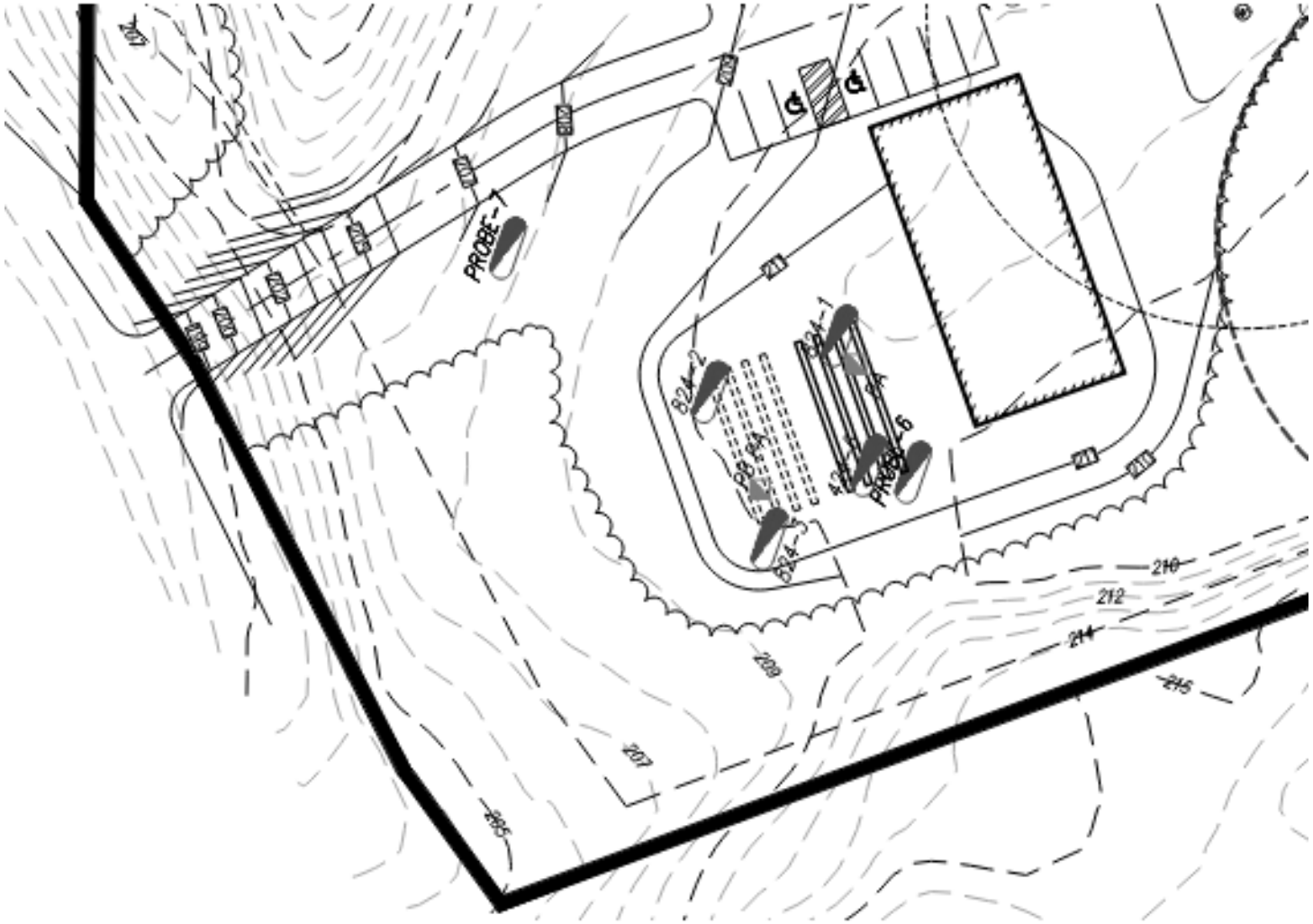
Field Diagrams

Use this sheet for field diagrams:



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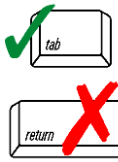
Percolation Test
Form 12

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.



A. Site Information

GROTON AFFORDABLE HOUSING TRUST
Owner Name

HOYT'S WHARF ROAD
Street Address or Lot #

GROTON	MA	01450
City/Town	State	Zip Code

FRAN STANLEY	978.732.1913
Contact Person (if different from Owner)	Telephone Number

B. Test Results

	8/9/2024 Date	9:00 AM Time	8/9/2024 Date	9:00 AM Time
Observation Hole #	PA		PB	
Depth of Perc	36"		38"	
Start Pre-Soak				
End Pre-Soak	UTS		UTS	
Time at 12”				
Time at 9”				
Time at 6”				
Time (9”-6”)				
Rate (Min./Inch)	2 MPI		2 MPI	
	Test Passed: ☑ Test Failed: ☐		Test Passed: ☑ Test Failed: ☐	

WILLIAM J. "JACK" MALONEY, JR
Test Performed By:

KALENE GENDRON NABOH/GROTON BOH AGENT
Witnessed By:

Comments: