



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

A. Facility Information

James & Paula J. Britt
 Owner Name
 26 Lazell Street
 Street Address
 Scituate MA
 State
 City
 119-0-10
 Map/Lot #
 02043
 Zip Code

B. Site Information

- (Check one) New Construction Upgrade
- Soil Survey NRCs 111c Chatfield-Rock outcrop-Canton complex
 Source Soil Map Unit Soil Series
 Ridges, hills Landform Soil Limitations
 Coarse-loamy melt-out fill derived from granite, gneiss, and/or schist
 Soil Parent material
 Surficial Geological Report 2018/Stone Thin till
 Year Published/Source Map Unit
 Description of Geologic Map Unit: Nonsorted, nonstratified matrix of sand, some silt, and little clay containing scattered pebble, cobble, and boulder clasts
- Flood Rate Insurance Map Within a regulatory floodway? Yes No
- Within a velocity zone? Yes No
- Within a Mapped Wetland Area? Yes No If yes, MassGIS Wetland Data Layer: Wetland Type Normal Below Normal
- Current Water Resource Conditions (USGS): 6/21/23 Range: Above Normal Normal Below Normal
 Month/Day/Year
- Other references reviewed: (Zone II, IWPA, Zone A, EEA Data Portal, etc.)



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

Deep Observation Hole Number: TP-1 Hole # 2/21/23 Date 9:00 AM Time Sunny 60 Weather Common Longitude 0-15

1. Land Use Residential (e.g., woodland, agricultural field, vacant lot, etc.) Lawn Vegetation Common Surface Stones (e.g., cobbles, stones, boulders, etc.) Slope (%)

Description of Location: _____

2. Soil Parent Material: Coarse-loamy melt-out till Ridges, hills Landform Position on Landscape (SU, SH, BS, FS, TS, Plain)

3. Distances from: Open Water Body >100 feet Drainage Way >50 feet Wetlands >100 feet

Property Line >10 feet Drinking Water Well >100 feet Other N/A feet

4. Unsuitable Materials Present: Yes No If Yes: Disturbed Soil/Fill Material Weathered/Fractured Rock Bedrock

5. Groundwater Observed: Yes No If yes: _____ Depth to Weeping In Hole _____ Depth to Standing Water in Hole

Soil Log

Depth (in)	Soil Horizon /Layer	Soil Texture (USDA)	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features			Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
				Depth	Color	Percent	Gravel	Cobbles & Stones			
0-12	A	Sandy Loam	10YR 3/2	Cnc : _____ Dpl: _____					Sub	Friable	
12-32	B	Loamy Sand	10YR 5/8	Cnc : 7.5YR 5/8 Dpl: _____	5				Granular	Friable	
32-86	C	Loamy Sand	2.5Y 5/4	Cnc : _____ Dpl: _____		20	10		Granular	Friable	
				Cnc : _____ Dpl: _____							
				Cnc : _____ Dpl: _____							
				Cnc : _____ Dpl: _____							

Additional Notes:



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

Deep Observation Hole Number: TP-2 Hole # TP-2 Date 6/21/23 Time 9:30 AM Sunny 60 Weather Common Latitude _____ Longitude 0-15

1. Land Use: Residential (e.g., woodland, agricultural field, vacant lot, etc.) Lawn Vegetation Common Surface Stones (e.g., cobbles, stones, boulders, etc.) 0-15 Slope (%) 0-15

Description of Location: _____

2. Soil Parent Material: Coarse-loamy melt-out till Ridges, hills _____ Landform _____ Position on Landscape (SU, SH, BS, FS, TS, Plain) _____

3. Distances from: Open Water Body >100 feet Drainage Way >50 feet Wetlands >100 feet
Property Line >10 feet Drinking Water Well >100 feet Other N/A feet

4. Unsuitable Materials Present: Yes No If Yes: Disturbed Soil/Fill Material Weathered/Fractured Rock Bedrock

5. Groundwater Observed: Yes No If Yes: _____ Depth to Weeping In Hole _____ Depth Standing Water in Hole _____

Soil Log

Depth (in)	Soil Horizon /Layer	Soil Texture (USDA)	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features			Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
				Depth	Color	Percent	Gravel	Cobbles & Stones			
0-12	A	Sandy Loam	10YR 3/2						Sub-Angular	Friable	
				Cnc : _____							
				Dpl: _____							
12-28	B	Loamy Sand	10YR 5/8						Granular	Friable	
				Cnc : _____							
				Dpl: _____							
28-76	C	Loamy Sand	2.5Y 5/4	32"		5	20	10	Granular	Friable	
				Cnc : .7.5YR 5/8							
				Dpl: _____							
				Cnc : _____							
				Dpl: _____							
				Cnc : _____							
				Dpl: _____							

Additional Notes: _____



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D. Determination of High Groundwater Elevation

1. Method Used (Choose one):
- Depth to soil redoximorphic features Obs. Hole #1 30" inches Obs. Hole #2 32" inches
 - Depth to observed standing water in observation hole _____ inches _____ inches
 - Depth to adjusted seasonal high groundwater (S_n) (USGS methodology) _____ inches _____ inches

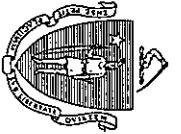
Index Well Number _____ Reading Date _____

$S_n = S_c - [S_r \times (OW_c - OW_{max}) / OW]$

Obs. Hole/Well# _____ S_c _____ S_r _____ OW_c _____ OW_{max} _____ OW_r _____ S_n _____

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 (exclude O, A, and E Horizons)?
- Upper boundary: 12 inches Lower boundary: 86 inches
- c. If no, at what depth was impervious material observed?
- Upper boundary: _____ inches Lower boundary: _____ inches



Commonwealth of Massachusetts
City/Town of Hingham

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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.

Gregory J. Morse

Signature of Soil Evaluator

Date

Gregory J. Morse, S.E.#2906

6/30/25

Typed or Printed Name of Soil Evaluator / License #

Expiration Date of License

Town Of Hingham

Name of Approving Authority / Witness

Approving Authority

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.

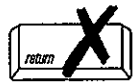
Field Diagrams: Use this area for field diagrams:



Commonwealth of Massachusetts
 City/Town of Hingham
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

James & Paula J. Britt

Owner Name

26 Lazell Street

Street Address or Lot #

Scituate

MA

02043

City/Town

State

Zip Code

Contact Person (if different from Owner)

Telephone Number

B. Test Results

	<u>6/21/23</u> Date	<u>9:00 AM</u> Time	<u> </u> Date	<u> </u> Time
Observation Hole #	TP-2			
Depth of Perc	32-50"			
Start Pre-Soak	9:13			
End Pre-Soak	9:28			
Time at 12"	9:28			
Time at 9"	9:43			
Time at 6"	10:12			
Time (9"-6")	29 Min			
Rate (Min./Inch)	10 MPI			

Test Passed:

Test Failed:

Test Passed:

Test Failed:

Gregory J. Morse, P.E., S.E. #4609

Test Performed By:

Colin McSweeney

Board of Health Witness

Comments:

The test pits are suitable for an on-site soil absorption system.