



Commonwealth of Massachusetts  
City/Town of Dover

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

### A. Facility Information

Robert Recchia

Owner Name

Troutbrook Road

Street Address

Dover

City

MA

State

Map 5, Lot 78 – Lot 4 on Site Plan

Map/Lot #

02030

Zip Code

### B. Site Information

1. (Check one) ☒ New Construction ☐ Upgrade
2. Soil Survey NRCS WebSoilSurvey Raynham silt loam 30  
Source Soil Map Unit Soil Series
- Depressions More than 80 inches  
Landform Soil Limitations
- Hard coarse-silty glaciolacustrine deposits  
Soil Parent material
3. Surficial Geological Report 2018. Stone Flood-plain alluvium  
Year Published/Source Map Unit
- Sand, gravel, silt and some organic material, stratified and well sorted to poorly sorted, beneath the flood plains of modern streams  
Description of Geologic Map Unit:
4. Flood Rate Insurance Map Within a regulatory floodway? ☒ Yes ☒ No
5. Within a velocity zone? ☐ Yes ☒ No
6. Within a Mapped Wetland Area? ☐ Yes ☒ No If yes, MassGIS Wetland Data Layer: \_\_\_\_\_  
Wetland Type
7. Current Water Resource Conditions (USGS): 10/5/2022 Range: ☐ Above Normal ☐ Normal ☒ Below Normal  
Month/Day/ Year
8. Other references reviewed: MA-DVW 10R DOVER, MA U.S. Geological Survey  
(Zone II, IWPA, Zone A, EEA Data Portal, etc.)



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

1. Land Use	Woodland, vacant lot (e.g., woodland, agricultural field, vacant lot, etc.)	Trees and Shrubs Vegetation	None Surface Stones (e.g., cobbles, stones, boulders, etc.)	1% Slope (%)
Description of Location: West side of parcel (closer to Troutbrook Rd)				

3. Distances from:

Open Water Body	<u>50+</u> feet	Drainage Way	<u>50+</u> feet	Wetlands	<u>50+</u> feet
Property Line	<u>10+</u> feet	Drinking Water Well	<u>100+</u> feet	Other	_____ 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

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	FILL	NA	NA		Cnc : Dpl:				NA	NA	
12-19	A	Sandy Loam	10YR2/1		Cnc : Dpl:				Granular	Friable	
19-29	B	Sandy Loam	10YR4/4		Cnc : Dpl:				Massive	Friable	
29-96	C	Fine Sand	5Y7/2	29"	Cnc :7.5YR5/8 Dpl:	35%			Single Grain	Loose	
					Cnc : Dpl:						

No Refusal. Alternatively the Fill layer would be deducted from the depth of the Soil Horizons.



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

-71.28573  
Longitude

5. Groundwater Observed: ☐ Yes ☒ No If yes: \_\_\_\_\_ Depth to Weeping in Hole \_\_\_\_\_ Depth Standing Water in Hole

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			
0-22	FILL	NA	NA		Cnc : Dpl:				NA	NA	
22-28	A	Sandy Loam	10YR2/1		Cnc : Dpl:				Granular	Friable	
28-36	B	Sandy Loam	10YR5/6		Cnc : Dpl:				Massive	Friable	
36-96	C1	Fine Sand	5Y7/2	36"	Cnc :7.5YR5/8 Dpl:	35%			Single Grain	Loose	
96-108	C2	Very Fine Loamy Sand	5Y7/1	96"	Cnc :7.5YR5/8 Dpl:	25%			Massive	Very Friable	
					Cnc : Dpl:						

No Refusal. Alternatively the Fill layer would be deducted from the depth of the Soil Horizons.



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

### D. Determination of High Groundwater Elevation

1. Method Used (Choose one):

☒ Depth to soil redoximorphic features

Obs. Hole # TP4-1

29 inches

Obs. Hole # TP4-2

36 inches

☐ Depth to observed standing water in observation hole

\_\_\_\_\_ inches

\_\_\_\_\_ inches

☐ Depth to adjusted seasonal high groundwater ( $S_h$ )  
(USGS methodology)

\_\_\_\_\_ inches

\_\_\_\_\_ inches

Index Well Number \_\_\_\_\_

Reading Date \_\_\_\_\_

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

Obs. Hole/Well# \_\_\_\_\_  $S_c$  \_\_\_\_\_  $S_r$  \_\_\_\_\_  $OW_c$  \_\_\_\_\_  $OW_{max}$  \_\_\_\_\_  $OW_r$  \_\_\_\_\_  $S_h$  \_\_\_\_\_

### 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: 36  
inches

Lower boundary: 108  
inches

c. If no, at what depth was impervious material observed?

Upper boundary: \_\_\_\_\_  
inches

Lower boundary: \_\_\_\_\_  
inches



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

### 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

Scott Goddard, 893

Typed or Printed Name of Soil Evaluator / License #

Mike Angieri

Name of Approving Authority Witness

Date

6/30/2025

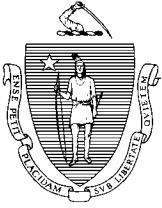
Expiration Date of License

Dover Board of Health

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](#).

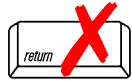
**Field Diagrams:** Use this area for field diagrams:



Commonwealth of Massachusetts  
City/Town of Dover  
**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

Robert Recchia

Owner Name

Troutbrook Rd (Assessors Map 5, Lot 78) - Lot 4 on Site Plan

Street Address or Lot #

Dover

City/Town

MA

State

02030

Zip Code

Scott Goddard

Contact Person (if different from Owner)

508-393-3784

Telephone Number

## B. Test Results

	10/6/22 Date	9:40 am Time	10/6/22 Date	9:33 am Time
Observation Hole #	TP4-2		TP4-1	
Depth of Perc	62"		42"	
Start Pre-Soak	9:40 am		9:33 am	
End Pre-Soak	Perc doesn't hold water		Perc doesn't hold water	
Time at 12"				
Time at 9"				
Time at 6"				
Time (9"-6")				
Rate (Min./Inch)	< 2 MPI		< 2 MPI	
	Test Passed: <input checked="" type="checkbox"/>		Test Passed: <input checked="" type="checkbox"/>	
	Test Failed: <input type="checkbox"/>		Test Failed: <input type="checkbox"/>	

Scott Goddard, 893

Test Performed By:

Mike Angieri, Dover Board of Health

Board of Health Witness

Comments:



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City/Town of Dover

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Zip Code

### B. Site Information

1. (Check one) ☒ New Construction ☐ Upgrade

2. Soil Survey NRCS WebSoilSurvey

Source

Raynham silt loam

Soil Map Unit

30

Soil Series

Depressions

Landform

More than 80 inches

Soil Limitations

Hard coarse-silty glaciolacustrine deposits

Soil Parent material

3. Surficial Geological Report

2018, Stone

Year Published/Source

Flood-plain alluvium

Map Unit

Sand, gravel, silt and some organic material, stratified and well sorted to poorly sorted, beneath the flood plains of modern streams

Description of Geologic Map Unit:

4. Flood Rate Insurance Map Within a regulatory floodway? ☒ Yes ☐ No

5. Within a velocity zone? ☐ Yes ☒ No

6. Within a Mapped Wetland Area? ☐ Yes ☒ No

If yes, MassGIS Wetland Data Layer:

7. Current Water Resource Conditions (USGS):

2018, Stone

Month/Day/ Year

Range: ☐ Above Normal

Wetland Type

☐ Normal

☒ Below Normal

8. Other references reviewed:

(Zone II, IWPA, Zone A, EEA Data Portal, etc.)

MA-DVW 10R DOVER, MA U.S. Geological Survey



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

-71.28573  
Longitude

5. Groundwater Observed: ☒ Yes ☐ No If yes: 84" Depth to Weeping in Hole \_\_\_\_\_ Depth to Standing Water in Hole

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			
0-8	A	Sandy Loam	10YR2/1		Cnc : Dpl:				Granular	Friable	
8-20	B	Sandy Loam	10YR5/6		Cnc : Dpl:				Massive	Friable	
20-96	C	Fine Sand	5Y7/1	20"	Cnc :7.5YR5/8 Dpl:	35%			Single Grain	Loose	
					Cnc : Dpl:						
					Cnc : Dpl:						

Form 11 – Soil Suitability Assessment for On-Site Sewage Disposal • Page 2 of 5





Commonwealth of Massachusetts  
City/Town of Dover

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

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

Deep Observation Hole Number: TP4-4      10/6/2022      9:40 AM      Partly cloudy, low      42.25955      -71.28573  
Hole #      Date      Time      Weather      Latitude      Longitude

1. Land Use: Woodland, vacant lot      grass      None      1%  
(e.g., woodland, agricultural field, vacant lot, etc.)      Vegetation      Surface Stones (e.g., cobbles, stones, boulders, etc.)      Slope (%)  
Description of Location: North portion of parcel

2. Soil Parent Material: Hard coarse-silty glaciolacustrine deposits      Depressions      Plain  
Landform      Position on Landscape (SU, SH, BS, FS, TS, Plain)

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

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

5. Groundwater Observed: ☒ Yes      ☐ No      If yes: 88" 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			
0-6	A	Sandy Loam	10YR2/1		Cnc : Dpl:				Granular	Friable	
6-14	B	Sandy Loam	10YR5/6		Cnc : Dpl:				Massive	Friable	
14-28	C1	Very Fine Sandy Loam	5Y7/2	14	Cnc :7.5YR5/8 Dpl:	35%			Massive	Friable	
28-88	C2	Fine Loamy Sand	5Y7/1	28	Cnc :7.5YR5/8 Dpl:	25%			Single Grain	Loose	
					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 # TP4-3

20 inches

Obs. Hole # TP4-4

14 inches

☐ Depth to observed standing water in observation hole

\_\_\_\_\_ inches

\_\_\_\_\_ inches

☐ Depth to adjusted seasonal high groundwater ( $S_h$ )  
(USGS methodology)

\_\_\_\_\_ inches

\_\_\_\_\_ inches

Index Well Number \_\_\_\_\_

Reading Date \_\_\_\_\_

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

Obs. Hole/Well# \_\_\_\_\_  $S_c$  \_\_\_\_\_  $S_r$  \_\_\_\_\_  $OW_c$  \_\_\_\_\_  $OW_{max}$  \_\_\_\_\_  $OW_r$  \_\_\_\_\_  $S_h$  \_\_\_\_\_

### 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: 14  
inches

Lower boundary: 88  
inches

c. If no, at what depth was impervious material observed?

Upper boundary: \_\_\_\_\_  
inches

Lower boundary: \_\_\_\_\_  
inches



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Signature of Soil Evaluator

Scott Goddard, 893

Typed or Printed Name of Soil Evaluator / License #

Mike Angieri

Name of Approving Authority Witness

Date

6/30/2025

Expiration Date of License

Dover Board of Health

Approving Authority

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