



Commonwealth of Massachusetts  
City/Town of Dover

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

### A. Facility Information

Robert Recchia

Owner Name

Edgewater Drive

Street Address

Dover

City

MA

State

Map 5, Lot 23 – Lot 45 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  
Outwash deltas/ terraces/ plains, kame terraces More than 80 inches  
Landform Soil Limitations  
Sandy outwash derived from granite, gneiss, and/or quartzite  
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	None	1%
Description of Location:	Southeast portion of parcel			
		Vegetation	Surface Stones (e.g., cobbles, stones, boulders, etc.)	Slope (%)

3. Distances from:	Open Water Body	<u>50+</u> feet	Drainage Way	<u>50+</u> feet	Wetlands	<u>50+</u> 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: \_\_\_\_\_ 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			
0-9	A	Sandy Loam	10YR3/2		Cnc : Dpl:				Granular	Friable	
9-15	B	Medium Sand	10YR4/4		Cnc : Dpl:				Massive	Friable	
15-22	C1	Medium Sand	5Y4/4	15	Cnc :7.5Y5/8 Dpl:	20%			Single Grain	Loose	
22-94	C2	Blocky Fine Loamy Sand	5Y6/3	22	Cnc :5Y7/1 Dpl:	30%			Massive	Friable	
					Cnc : Dpl:						
					Cnc : Dpl:						

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Additional Notes:  
No Refusal.

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

<b>Deep Observation Hole Number:</b> <u>TP45-5</u>	<u>11/12/2022</u>	<u>10:18 AM</u>	<u>Partly sunny, high</u>	<u>42.25824</u>	<u>-71.29384</u>
Hole #	Date	Time	70s Weather	Latitude	Longitude

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 (%)
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Description of Location: Located in the south portion of the parcel (farther away from Edgewater Drive)

2. Soil Parent Material:	Sandy outwash derived from granite, gneiss, and/or quartzite	Outwash deltas/ terraces/ plains	Plain
		Landform	Position on Landscape (SU, SH, BS, FS, TS, Plain)

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 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			
0-1	O	Organic			Cnc : Dpl:						
1-10	A	Sandy Loam	10YR3/2		Cnc : Dpl:						
10-15	B	Sandy Loam	10YR5/6		Cnc : Dpl:						
15-25	C1	Medium Sand	5YR7/2		Cnc : Dpl:						
25-47	C2	Fine Loamy Sand	5Y6/3	25"	Cnc :7.5Y5/8 Dpl:	20%					
47-72	C3	Medium Loamy Sand	5Y6/3	47"	Cnc :5Y7/1 Dpl:	30%					



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Additional Notes:  
No Refusal.

### D. Determination of High Groundwater Elevation

1. Method Used (Choose one):

☒ Depth to soil redoximorphic features

Obs. Hole # TP45-4

15 inches

Obs. Hole # TP45-5

32 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: 15  
inches

Lower boundary: 94  
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**

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



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.

## A. Site Information

Robert Recchia

Owner Name

Edgewater Drive (Assessors Map 5, Lot 23) - Lot 45 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

	10/12/22 Date	9 AM Time	10/12/22 Date	10:18 AM Time
Observation Hole #	TP45-4		TP45-5	
Depth of Perc	34"		40"	
Start Pre-Soak	9 AM		10:18AM	
End Pre-Soak	9:15AM		10:33AM	
Time at 12"	9:15AM		10:33AM	
Time at 9"	9:30AM		10:44AM	
Time at 6"	10:32AM		11:02AM	
Time (9"-6")	62 minutes		18 minutes	
Rate (Min./Inch)	21 MPI		6 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:



Commonwealth of Massachusetts  
City/Town of Dover

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State

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Map/Lot #

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### B. Site Information

1. (Check one) ☒ New Construction ☐ Upgrade
2. Soil Survey NRCS WebSoilSurvey Raynham silt loam 30  
Source Soil Map Unit Soil Series  
Outwash deltas/ terraces/ plains, kame terraces More than 80 inches  
Landform Soil Limitations  
Sandy outwash derived from granite, gneiss, and/or quartzite  
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.)

# 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: TP45-3	10/6/2022	12:13 PM	Partly cloudy, low	42.25824	-71.29384
Hole #	Date	Time	70s	Latitude	Longitude
			Weather		

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 (%)
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Description of Location: East side of parcel

2. Soil Parent Material:	Sandy outwash derived from granite, gneiss, and/or quartzite	Outwash deltas/ terraces/ plains, kame terraces	Plain
		Landform	Position on Landscape (SU, SH, BS, FS, TS, Plain)

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

## 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	10YR3/2		Cnc : Dpl:				Granular	Friable	
12-27	BW	Sandy Loam	10YR4/4		Cnc : Dpl:				Massive	Friable	
27-34	C1	Fine Sand	5Y7/2	27	Cnc :7.5Y5/8 Dpl:	20%			Single Grain	Loose	
34-110	C2	Very Fine Loamy Sand	5Y7/1	34	Cnc :5Y7/1 Dpl:	30%			Massive	Friable	
					Cnc: Dpl:						

Additional Notes:  
No Refusal.





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

1. Method Used (Choose one):

☒ Depth to soil redoximorphic features

Obs. Hole # TP45-3

Obs. Hole #

27 inches

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: 27  
inches

Lower boundary: 110  
inches

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

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

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

### F. Certification



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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: