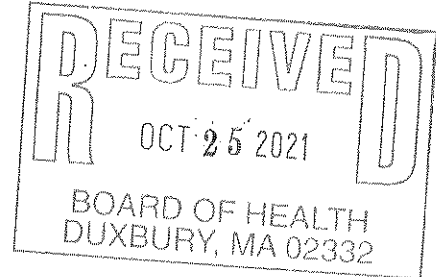


# DUXBURY CONSTRUCTION LLC

P.O. BOX 2514 DUXBURY MASSACHUSETTS 781 934 0000

October 21, 2021

Duxbury Town Hall  
Board of Health  
878 Tremont Street  
Duxbury, Ma 02332  
Attn: Board Members



Re: Repair of Subsurface Sewage Disposal System  
142 Oak Street  
Assessors ref. #061-046-005

Dear Board Members,

Enclosed are copies of the repair plan for the disposal system at the above property. A list of the required local and state waivers is as follows:

#### TOWN OF DUXBURY SUPPLEMENTAL REGULATIONS

##### SECTION 1.10(1a) MINIMUM SETBACK DISTANCES

1. The proposed leaching field is to be located 146.0' from the wetlands resource area, Duxbury regulations require 150.0'

##### SECTION 1.11 (1)(B) GROUNDWATER SEPARATION

1. The proposed leaching field is to be constructed 5.01' above maximum ground water, Duxbury regulations require 6.0' where the perc rate is less than 2 min/inch.

#### LOCAL UPGRADE APPROVAL

310 CMR 15:405

(h) THE LOCAL APPROVING AUTHORITY MAY REDUCE THE REQUIRED... FIVE FOOT SEPARATION (IN SOILS WITH A RECORDED PERCOLATION RATE OF LESS THAN TWO MINUTES PER INCH) BETWEEN THE BOTTOM OF THE SOIL ABSORPTION SYSTEM AND THE HIGH GROUNDWATER ELEVATION ONLY IF ALL OF THE FOLLOWING CONDITIONS ARE MET:

2. A MINIMUM FOUR FOOT SEPARATION (IN SOILS WITH A RECORDED PERCOLATION RATE OF LESS THAN TWO MINUTES PER INCH) ... BETWEEN THE BOTTOM OF THE SOIL ABSORPTION SYSTEM AND THE HIGH GROUNDWATER ELEVATION IS MAINTAINED.

1. THE PROPOSED LEACHING FIELD IS TO BE CONSTRUCTED 4.29' ABOVE MAXIMUM GROUND WATER.

It is our professional opinion that these variances and the upgrade approval can be granted without compromising the level of environmental protection.

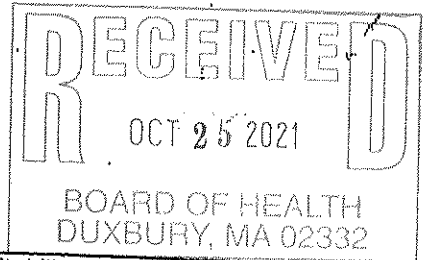
If you have any questions or comments please call us at the above number.

Sincerely,

  
Freeman Boynton, Jr.  
Duxbury Construction LLC



Commonwealth of Massachusetts  
 City/Town of  
**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**

Owner Name Dean Fisher  
 Street Address or Lot # 142 Oak Street  
 City/Town Duxbury State MA Zip Code 02332  
 Contact Person (if different from Owner) BO Telephone Number 781-934-5824

**B. Test Results**

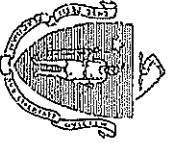
	Date	Time	Date	Time
Observation Hole #	<u>9/9/2021</u>	<u>9:00</u>		
	<u>#1</u>			
Depth of Perc		<u>27"</u>		
Start Pre-Soak		<u>9:32</u>		
End Pre-Soak		<u>9:37</u>		
Time at 12"		<u>Failure to pre-soak</u>		
Time at 9"		<u>Yields less than</u>		
Time at 6"		<u>2 MPI</u>		
Time (9"-6")				
Rate (Min./Inch)		<u>2 MPI</u>		

Test Passed:  Test Failed:       Test Passed:  Test Failed:

Test Performed By: \_\_\_\_\_

Witnessed By: \_\_\_\_\_

Comments: \_\_\_\_\_



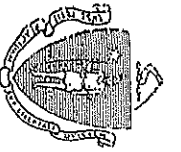
Commonwealth of Massachusetts  
City/Town of

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

**Field Diagrams**

---

Use this sheet for field diagrams:



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

**C. On-Site Review (continued)**

Deep Observation Hole Number:       #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			
0-8	A	10YR 3/2				Loam <sup>W</sup> Sand			Massive	Friable	
8-27	B	10YR 5/3				Loam <sup>W</sup> Sand			Massive	Friable	
27-134	C	2.5Y 6/2	80"	10YR 5/3	45	Sand			Single grained	Loose	

Additional Notes:  
 Stand 1's gravel pit @ 127"