



Commonwealth of Massachusetts  
City/Town of Wayland  
**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

134 Boston Post Road, LLC

Owner Name

134 Boston Post Road

Street Address or Lot #

Wayland

City/Town

MA

State

01778

Zip Code

508-481-7691

Telephone Number

Contact Person (if different from Owner)

## B. Test Results

	4/27/2011			
	Date	Time	Date	Time
Observation Hole #	SDG-1			
Depth of Perc	Shelf @ 54" + 18" = 72"			
Start Pre-Soak	10:09 a			
End Pre-Soak	10:24			
Time at 12"	10:24			
Time at 8"	10:31		Time at 7" – 10:33	
Time at 5"	10:37		Time at 6" – 10:35	
Time (8"-5")	10:37			
Rate (Min./Inch)				
	Test Passed:	<input checked="" type="checkbox"/>	Test Passed:	<input type="checkbox"/>
	Test Failed:	<input type="checkbox"/>	Test Failed:	<input type="checkbox"/>

Don Nielsen (Guerriere and Halnon)

Test Performed By:

Eric Gerade (SDG)

Witnessed By:

Comments:



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## B. Test Results

	Date	Time	Date	Time
Observation Hole #	SDG-2			
Depth of Perc	Shelf @ 84"			
Start Pre-Soak	11:44			
End Pre-Soak	12:02			
Time at 12"	12:02			
Time at 9"	12:15		Time at 7.5" – 12:23	
Time at 7"	12:26		Time at 6" – 12:34	
Time (9"-6")	12:34			
Rate (Min./Inch)	8/1			
	Test Passed:	<input checked="" type="checkbox"/>	Test Passed:	<input type="checkbox"/>
	Test Failed:	<input type="checkbox"/>	Test Failed:	<input type="checkbox"/>

Don Nielsen (Guerriere and Halnon)

Test Performed By:

Steve Calichman (Wayland Board of Health)

Witnessed By:

Comments:



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## B. Test Results

	4/27/2011			
	Date	Time	Date	Time
Observation Hole #	SDG-2P			
Depth of Perc	Bottom 91"			
Start Pre-Soak	11:47 a			
End Pre-Soak	12:02			
Time at 12"	12:02			
Time at 9"	12:15		Time at 7" – 12:26	
Time at 6"	12:34			
Time (9"-6")	12:34			
Rate (Min./Inch)				
	Test Passed:	<input checked="" type="checkbox"/>	Test Passed:	<input type="checkbox"/>
	Test Failed:	<input type="checkbox"/>	Test Failed:	<input type="checkbox"/>

Don Nielsen (Guerriere and Halnon)

Test Performed By:

Eric Gerade (SDG)

Witnessed By:

Comments:



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## B. Test Results

	Date	Time	Date	Time
Observation Hole #	SDG-3			
Depth of Perc	118"			
Start Pre-Soak	1:52			
End Pre-Soak	2:07			
Time at 12"	2:07			
Time at 9"	2:09		Time at 8" – 2:10	
Time at 7"	2:10:30		Time at 6" – 2:11	
Time (9"-6")	2:11			
Rate (Min./Inch)	<2/1			
	Test Passed:	<input checked="" type="checkbox"/>	Test Passed:	<input type="checkbox"/>
	Test Failed:	<input type="checkbox"/>	Test Failed:	<input type="checkbox"/>

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Test Performed By:

Steve Calichman (Wayland Board of Health)

Witnessed By:

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## B. Test Results

	4/27/2011			
	Date	Time	Date	Time
Observation Hole #	SDG-5A			
Depth of Perc	Shelf @ 48" + 15" = 63"			
Start Pre-Soak	9:16 a			
End Pre-Soak	9:31			
Time at 12"	9:31			
Time at 8"	9:52:30		Time at 7" – 9:54:17	
Time at 5"	9:58:30		Time at 6" – 9:56:08	
Time (8"-5")	9:58:30			
Rate (Min./Inch)				
	Test Passed:	<input checked="" type="checkbox"/>	Test Passed:	<input type="checkbox"/>
	Test Failed:	<input type="checkbox"/>	Test Failed:	<input type="checkbox"/>

Don Nielsen (Guerriere and Halnon)

Test Performed By:

Eric Gerade (SDG)

Witnessed By:

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## B. Test Results

4/27/2011

Date

Time

Date

Time

Observation Hole #

SDG-6

Depth of Perc

Shelf @ 47"

Start Pre-Soak

End Pre-Soak

Time at 12"

Time at 9"

Time at 6"

Time (9"-6")

Rate (Min./Inch)

Test Passed:

☐

Test Failed:

☐

Test Passed:

☐

Test Failed:

☐

Don Nielsen (Guerriere and Halnon)

Test Performed By:

Eric Gerade (SDG)

Witnessed By:

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### B. Test Results

	4/27/2011 Date	9:04 a Time	Date	Time
Observation Hole #	SDG-7			
Depth of Perc	Shelf @ 42" + 18" = 60"			
Start Pre-Soak	9:08			
End Pre-Soak	9:24:30			
Time at 12"	9:24:30			
Time at 9"	9:25:56		Time (9"-8") - 9:26:53	
Time at 6"	9:28:45		Time (8"-7") - 9:27:48	
Time (9"-6")			Time (7"-6") - 9:28:45	
Rate (Min./Inch)				
Test Passed:	<input checked="" type="checkbox"/>		Test Passed:	<input type="checkbox"/>
Test Failed:	<input type="checkbox"/>		Test Failed:	<input type="checkbox"/>

Don Nielsen (Guerriere and Halnon)

Test Performed By:

Eric Gerade (SDG)

Witnessed By:

Comments:



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## B. Test Results

	Date	Time	Date	Time
Observation Hole #	7 (Re-perc by Agent)			
Depth of Perc				
Start Pre-Soak				
End Pre-Soak				
Time at 12"				
Time at 9"	2:14:22		Time at 8" – 2:15:28	
Time at 7"	2:16:10			
Time (9"-7")	2:16:10			
Rate (Min./Inch)	<2/1			
	Test Passed:	<input checked="" type="checkbox"/>	Test Passed:	<input type="checkbox"/>
	Test Failed:	<input type="checkbox"/>	Test Failed:	<input type="checkbox"/>

Steve Calichman (Wayland Board of Health)

Test Performed By:

Don Nielsen (Guerriere and Halnon)

Witnessed By:

Comments:





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

C. On-Site Review (continued)

Deep Observation Hole Number: SDG-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			
0-16"	O	10 YR 3/4				Sandy Loam					
16-26"	C <sub>1</sub>	10 YR 6/4				Sand Fine/Med					
26-38"	C <sub>2</sub>	10 YR 4/3				Sandy Loam/Silt					
38-158"	C <sub>3</sub>	10 YR 6/3				Sandy Loam	Fine/Sand/ Loamy Sand				

Additional Notes:

O – Sandy loam/Fill/Organic Loam – Altered in past    C<sub>2</sub> – Should be removed

Groundwater @ 16', EST. high GW @ 13'



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

Deep Observation Hole Number:      SDG-5 (Not Perc'd: Till Material)

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			
0-10"	A										
10-35"	B										
35-91"	C <sub>1</sub>					Fine Sand					
91-168"	C <sub>2</sub>					Till					

Additional Notes:

108" – est. groundwater high (Town)

Total depth – 14', No groundwater encountered



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

Deep Observation Hole Number: SDG-5A

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			
0-18"	A	10 YR 3/4				Sandy Loam					
18-30"	B	10 YR 5/6				Sandy Loam					
30-45"	C <sub>1</sub>	10 YR 4/4				Coarse Sand					
45-75"	C <sub>2</sub>	10 YR 6/3				Sandy Loam					
75-162"	C <sub>3</sub>	10 YR 6/4				Sandy Loam					
162-168"	C <sub>4</sub>	10 YR 5/4				Till					

Additional Notes:

C<sub>1</sub> – Coarse Sand, Cobbles 2-4"      C<sub>2</sub> – Slight mottling      C<sub>4</sub> – Till Material, Trace of Silt

No Groundwater @ 168"    64-86" to be removed, mottles start @ 64"



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C. On-Site Review (continued)

Deep Observation Hole Number: SDG-6

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			
0-13"	A	10 YR 3/4				Sandy Loam					
13-30"	B	10 YR 5/6				Sandy Loam					
30-75"	C <sub>1</sub>	10 YR 6/4				Sandy Loam	Fine – Med Sand				
88-144"	C <sub>5</sub>	10 YR 6/4				Sandy Loam	Fine Sand-	Coarse Sand Layers			

Additional Notes:

C<sub>2</sub> 75-88" to be removed. Fine Sandy Loam 10 YR 6/4



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

C. On-Site Review (continued)

Deep Observation Hole Number: SDG-7

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			
0-12"	A	10 YR 3/4				Sandy Loam					
12-26"	B	10 YR 5/6				Sandy Loam					
26-114"	C <sub>1</sub>	10 YR 6/4				Sandy Loam				Medium Sand	
114-142"	C <sub>2</sub>	10 YR 6/4				Sandy Loam				Fine Sand	

Additional Notes:

C<sub>1</sub> Horizon – lenses of coarse sand, No Groundwater @ 142", 66" Irrigated Mottles, C<sub>1</sub> Fine Sand – Loamy Sand with coarse layers



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

Deep Observation Hole Number: SDG-9

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			
0-15"	A	10 YR 3/4									
15-38"	B	10 YR 5/6									
38-192"	C <sub>1</sub>	10 YR 6/4									

Additional Notes:

C<sub>1</sub> – Loamy Sand, 90" – mottling starts

No groundwater @ 192"



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

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

Deep Observation Hole Number: SDG-10

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			
0-20"	A	10 YR 3/4									
20-30"	B <sub>1</sub>	10 YR 4/3									
30-42"	B <sub>2</sub>	10 YR 5/6									
42-126"	C <sub>1</sub>	10 YR 6/4									
126-168"	C <sub>2</sub>	10 YR 6/4									

Additional Notes:

C<sub>2</sub> – Moist, McPhail: Sieve Analysis

No groundwater @ 168"



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

C. On-Site Review (continued)

Deep Observation Hole Number: SDG-11

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			
0-17"	A	10 YR 3/4				Sandy Loam					
17-36"	B	10 YR 5/6				Sandy Loam					
36-156"	C <sub>1</sub>	10 YR 6/4				Sandy Loam					

Additional Notes:

C<sub>1</sub> – Not single grain, much higher silt content than previous holes

No groundwater at 56"





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## 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

JAN D. STEPHENSON SE 2346

Typed or Printed Name of Soil Evaluator / License #

STEVE CALICMAN

Name of Board of Health Witness

APRIL 27, 2011

Date

JUNE 1995

Date of Soil Evaluator Exam

WAYLAND

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.