Date: <u>5/24/05</u>

#### Commonwealth Of Massachusetts

#### **Groton, Massachusetts**

#### Soil Suitability Assessment for On-site Sewage Disposal

Performed By Jeff Hannaford - Norse Design Services, Inc.					
Witnessed By B. Braley - Groton Board of Health					
Location address:  Cow Pond Brook Rd.  Groton, MA		Hill Realty Trust 289, Tyngsboro, MA 01879			
New Construction ⊠ Repair □					
Office Review					
Published Soil Survey Available: No 🗆	Yes ⊠				
Year Published July 1995 Publication Sca	ale <u>1:25000</u> Soi	l Map Unit: <u>GP</u>			
Drainage Class A Soil limitations					
Surficial Geologic Report Available: No ⊠ Yes □					
Year Published Publication Scale Soil Map Unit					
Geologic Material (Map Unit)					
Landform					
Flood Insurance Rate Map:					
Above 500 year flood boundary	No 🗆	Yes ⊠			
Within 500 year flood boundary No ⊠ Yes □					
Above 100 year flood boundary No ☐ Yes ☒					
Wetland Area:					
National Wetland inventory Map (map unit)					
Wetlands Conservancy Program Map (map unit)					
Current Water Resource Conditions (USGS)	: ]	Month: April 2004			
Range: Above Normal 🗵 Normal 📮 Below Normal 🗖					
Other References Reviewed:					

Date 3	5/24/0	5
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Deep Hole Number <u>TH-1</u> Date: <u>4/27/</u>	<u>04 Time: 11:30 Weather: Cloudy - 60°</u>
Location (identify on site plan) <u>See Pl</u>	an
Land Use: <u>Gravel Pit</u> Slope (%)_	0-5% Surface Stones None
Vegetation: None	_
Landform: Outwash Plain	
Position on landscape: See Plan	
Distances from:	
Open Water Body_>100_ Feet	Possible Wet Area <u>&gt;100</u> Feet
Drinking Water Well_>100 Feet	Drainage way >100 Feet
Property Line <u>*</u> Feet	Other
* See Plan	

DEEP OBSERVATION HOLE LOG					
Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, boulders, Consistency, % Gravel)
0-9" 9"-66" 66"-120"	Fill C1 C2	M-C Sand F-M Sand	2.5 y 7/3 2.5 y 6/4	@66"(7.5yr 5/6)	Loose - single grain Loose - single grain
			, in the second		

Parent Material (geologic) Glacial Outwash Depth of Bedrock None
Depth to Groundwater: Standing Water in Hole: <u>72"</u> Weeping from Pit Face: <u>72"</u>
Estimated Seasonal High Ground Water: 66"

Date 5	/24/	05
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Deep Hole Number <u>TH-2</u> Date: <u>4/27/</u>	<u>04 Time: 11:30 Weather: Cloudy - 60°</u>
Location (identify on site plan) See Pl	an
Land Use: <u>Gravel Pit</u> Slope (%)_	0-5% Surface Stones None
Vegetation: None	_
Landform: Outwash Plain	
Position on landscape: See Plan	
Distances from:	
Open Water Body_>100_ Feet	Possible Wet Area >100 Feet
Drinking Water Well_>100 Feet	Drainage way >100 Feet
Property Line <u>*</u> Feet	Other
* See Plan	

DEEP OBSERVATION HOLE LOG					
Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, boulders, Consistency, % Gravel)
0-12" 12"-66" 66"-108"	Fill C1 C2	M-C Sand F-M Sand	2.5 y 7/3 2.5 y 6/4	@66" (7.5yr 5/6)	Loose - single grain Loose - single grain

Parent Material (geologic) <u>Glacial Outwash</u> Depth of Bedrock <u>None</u>
Depth to Groundwater: Standing Water in Hole: <u>72"</u> Weeping from Pit Face: <u>72"</u>
Estimated Seasonal High Ground Water: 66"

Date	5/24/05	
Date	3/24/03	

Deep Hole Number <u>TH-3</u> Date: <u>4/27/0</u>	4 Time: 11:30 Weather: Cloudy - 60°
Location (identify on site plan) See Plan	n
Land Use: <u>Gravel Pit</u> Slope (%) <u>0</u>	-5% Surface Stones None
Vegetation: None	
Landform: Outwash Plain	
Position on landscape: See Plan	
Distances from:	
Open Water Body >100 Feet	Possible Wet Area_>100_ Feet
Drinking Water Well_>100 Feet	Drainage way <u>&gt;100</u> Feet
Property Line <u>*</u> Feet	Other
* See Plan	

DEEP OBSERVATION HOLE LOG					
Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, boulders, Consistency, % Gravel)
0-3" 3"-60" 60"-120"	Fill C1 C2	M-C Sand F-M Sand	2.5 y 7/3 2.5 y 6/4	@60″(7.5yr 5/6)	Loose - single grain Loose - single grain

Parent Material (geologic) <u>Glacial Outwash</u> Depth of E	Bedrock <u>None</u>
Depth to Groundwater: Standing Water in Hole: <u>66"</u>	_Weeping from Pit Face: _66 <u>"</u> _
Estimated Seasonal High Ground Water:	60"

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Date 5/24/05

Deep Hole Number <u>TH-4</u> Date: <u>4/27/04</u> Time: <u>11:30</u> Weather: <u>Cloudy - 60°</u>
Location (identify on site plan) See Plan
Land Use: <u>Gravel Pit</u> Slope (%) <u>0-5%</u> Surface Stones <u>None</u>
Vegetation: None
Landform: Outwash Plain
Position on landscape: See Plan
Distances from:
Open Water Body <u>&gt;100</u> Feet Possible Wet Area <u>&gt;100</u> Feet
Drinking Water Well_>100 Feet Drainage way_>100 Feet
Property Line*_Feet Other
* See Plan

DEEP OBSERVATION HOLE LOG					
Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, boulders, Consistency, % Gravel)
0-9" 9"-54"	Fill C1	M-C Sand	2.5 y 7/3	@54"(7.5yr 5/6)	Loose - single grain
54"-120"	C2	F-M Sand	2.5 y 6/4		Loose - single grain

Parent Material (geologic) <u>Glacial Outwash</u> Depth of Bedrock <u>None</u>	
Depth to Groundwater: Standing Water in Hole: <u>60"</u> Weeping from	Pit Face: _60"
Estimated Seasonal High Ground Water:	54"

Date 5	/24	/05	

Deep Hole Number <u>TH-5</u> Date: <u>4/27/04</u>	Fime: 11:30 Weather: Cloudy - 60°
Location (identify on site plan) <u>See Plan</u>	
Land Use: <u>Gravel Pit</u> Slope (%) <u>0-5</u>	% Surface Stones None
Vegetation: None	
Landform: Outwash Plain	
Position on landscape: See Plan	
Distances from:	
Open Water Body >100 Feet Po	ssible Wet Area <u>&gt;100</u> Feet
Drinking Water Well_>100 Feet Dr	ainage way >100 Feet
Property Line <u>*</u> Feet Ot	her
* See Plan	

DEEP OBSERVATION HOLE LOG						
Depth from Surface (inches)	urface Horizon Texture (Munsell) Mottling (Structure, Stones, boulders,					
0-12" 12"-54" 54"-120"	Fill C1 C2	M-C Sand F-M Sand	2.5 y 7/3 2.5 y 6/4	@54"(7.5yr 5/6)	Loose - single grain Loose - single grain	

Parent Material (geologic) <u>Glacial Outwash</u> Depth of Bedrock	_None
Depth to Groundwater: Standing Water in Hole: <u>60"</u> Weepi	ng from Pit Face: _60 <u>"</u> _
Estimated Seasonal High Ground V	Vater: 54"
Estimated Seasonal High Ground V	vater. <u>51</u>

Date 5	/24	/05	

Deep Hole Number <u>TH-6</u> Date: <u>4/27/04</u> Time: <u>11:30</u> Weather: <u>Cloudy - 60°</u>					
Location (identify on site plan) See Plan					
Land Use: <u>Gravel Pit</u> Slope (%) <u>0-5%</u> Surface Stones <u>None</u>					
Vegetation: None					
Landform: Outwash Plain					
Position on landscape: See Plan					
Distances from:					
Open Water Body >100 Feet Possible Wet Area >100 Feet					
Drinking Water Well >100 Feet Drainage way >100 Feet					
Property Line * Feet Other					
* See Plan					

DEEP OBSERVATION HOLE LOG					
Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, boulders, Consistency, % Gravel)
0-6" 6"-60" 60"-120"	Fill C1 C2	M-C Sand F-M Sand	2.5 y 7/3 2.5 y 6/4	@60"(7.5yr 5/6)	Loose - single grain Loose - single grain
			,		

Parent Material (geologic) Glacial Outwash Depth of Bedrock None	
Depth to Groundwater: Standing Water in Hole: <u>66"</u> Weeping from Pit Face: _66 <u>"</u>	_
Estimated Seasonal High Ground Water: 60"	

Date	5	/24/	05
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Deep Hole Number <u>TH-7</u> Date: <u>4/27/04</u>	<u>11:30</u> Weather: <u>Cloudy - 60°</u>					
Location (identify on site plan) See Plan						
Land Use: <u>Gravel Pit</u> Slope (%) <u>0</u> -	5% Surface Stones None					
Vegetation: None						
Landform: Outwash Plain						
Position on landscape: See Plan	Position on landscape: See Plan					
Distances from:						
Open Water Body_>100_ Feet l	Possible Wet Area <u>&gt;100</u> Feet					
Drinking Water Well_>100 Feet	Drainage way <u>&gt;100</u> Feet					
Property Line*_Feet	Other					
* See Plan						

DEEP OBSERVATION HOLE LOG					
Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, boulders, Consistency, % Gravel)
0-6" 6"-54" 54"-108"	Fill C1 C2	M-C Sand F-M Sand	2.5 y 7/3 2.5 y 6/4	@54"(7.5yr 5/6)	Loose - single grain Loose - single grain

Parent Material (geologic) <u>Glacial Outwash</u> Depth of Bedrock	_None
Depth to Groundwater: Standing Water in Hole: <u>60"</u> Weepi	ng from Pit Face: _60 <u>"</u> _
Estimated Seasonal High Ground V	Vater: 54"
Estimated Seasonal High Ground V	vater. <u>51</u>

Date 5	/24/05	
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Deep Hole Number <u>TH-8</u> Date: <u>4/27/04</u>	<u>1 Time: 11:30 Weather: Cloudy - 60°</u>				
Location (identify on site plan) See Plan					
Land Use: <u>Gravel Pit</u> Slope (%) <u>0</u>	-5% Surface Stones None				
Vegetation: None					
Landform: Outwash Plain					
Position on landscape: See Plan					
Distances from:					
Open Water Body >100 Feet	Possible Wet Area <u>&gt;100</u> Feet				
Drinking Water Well_>100 Feet	Drainage way <u>&gt;100</u> Feet				
Property Line <u>*</u> Feet	Other				
* See Plan					

DEEP OBSERVATION HOLE LOG					
Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, boulders, Consistency, % Gravel)
0-6" 6"-48" 48"-96"	Fill C1 C2	M-C Sand F-M Sand	2.5 y 7/3 2.5 y 6/4	@48"(7.5yr 5/6)	Loose - single grain Loose - single grain

Parent Material (geologic) <u>Glacial Outwash</u> Depth of Bedrock <u>None</u>	
Depth to Groundwater: Standing Water in Hole: <u>54"</u> Weeping from Pit Face: <u>54"</u>	<u>,</u>
Estimated Seasonal High Ground Water: 48"	

Date	5/24/05	
Date	J/ <del>Z</del> T/ UJ	

Deep Hole Number <u>TH-9</u> Date: <u>4/27/04</u> Time: <u>11:30</u> Weather: <u>Cloudy - 6</u>	<u>0°</u>					
Location (identify on site plan) See Plan						
Land Use: <u>Gravel Pit</u> Slope (%) <u>0-5%</u> Surface Stones <u>None</u>						
Vegetation: None						
Landform: Outwash Plain						
Position on landscape: See Plan						
Distances from:						
Open Water Body_>100_ Feet Possible Wet Area_>100_ Feet						
Drinking Water Well_>100 Feet Drainage way_>100 Feet						
Property Line_*_Feet Other						
* See Plan						

DEEP OBSERVATION HOLE LOG					
Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, boulders, Consistency, % Gravel)
0-6" 6"-96"	Fill C1	M-C Sand	2.5 y 7/3	@54"(7.5yr 5/6)	Loose - single grain

Parent Material (geologic) <u>Glacial Outwash</u> Depth of Bedrock <u>None</u>	
Depth to Groundwater: Standing Water in Hole: <u>66"</u> Weeping from	Pit Face: _66 <u>"</u> _
Estimated Seasonal High Ground Water:	54"

Date	5/24/05	
Date	J/ <del>Z</del> =/ UJ	

Deep Hole Number <u>TH-10</u> Date: <u>4/27/</u>	<u>'04 Time: 11:30 Weather: Cloudy - 60°</u>
Location (identify on site plan) See Pl	an
Land Use: <u>Gravel Pit</u> Slope (%)_	0-5% Surface Stones None
Vegetation: None	_
Landform: Outwash Plain	
Position on landscape: See Plan	
Distances from:	
Open Water Body_>100_ Feet	Possible Wet Area <u>&gt;100</u> Feet
Drinking Water Well_>100 Feet	Drainage way >100 Feet
Property Line <u>*</u> Feet	Other
* See Plan	

DEEP OBSERVATION HOLE LOG					
Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, boulders, Consistency, % Gravel)
0"-96"	C1	M-C Sand	2.5 y 7/3	@24"(7.5yr 5/6)	Loose - single grain

Parent Material (geologic) Glacial Outwash Depth of Bedrock _None	
Depth to Groundwater: Standing Water in Hole: <u>36"</u> Weeping from	Pit Face: _36 <u>"</u> _
Estimated Seasonal High Ground Water:	24"

Date	5/24/05	
Daic	J/ <del>ZI</del> / UJ	

Deep Hole Number <u>TH-11</u> Date: <u>4/27/04</u> Time: <u>11:30</u> Weather: <u>Cloudy - 60°</u>
Location (identify on site plan) See Plan
Land Use: <u>Gravel Pit</u> Slope (%) <u>0-5%</u> Surface Stones <u>None</u>
Vegetation: None
Landform: Outwash Plain
Position on landscape: See Plan
Distances from:
Open Water Body <u>&gt;100</u> Feet Possible Wet Area <u>&gt;100</u> Feet
Drinking Water Well_>100 Feet Drainage way_>100 Feet
Property Line_*_Feet Other
* See Plan

DEEP OBSERVATION HOLE LOG					
Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, boulders, Consistency, % Gravel)
0-8" 8"-72" 72"-120"	Fill C1 C2	M-C Sand F-M Sand	2.5 y 7/3 2.5 y 6/4	@66"(7.5yr 5/6)	Loose - single grain Loose - single grain

Parent Material (geologic) <u>Glacial Outwash</u> Depth of Bedrock <u>None</u>
Depth to Groundwater: Standing Water in Hole: <u>72"</u> Weeping from Pit Face: <u>72"</u>
Estimated Seasonal High Ground Water: 66"

Deep Hole Number <u>TH-12</u> Date: <u>4/27/</u>	<u>'04 Time: 11:30 Weather: Cloudy - 60°</u>
Location (identify on site plan) See Pl	an
Land Use: <u>Gravel Pit</u> Slope (%)_	0-5% Surface Stones None
Vegetation: None	_
Landform: Outwash Plain	
Position on landscape: See Plan	
Distances from:	
Open Water Body_>100 Feet	Possible Wet Area <u>&gt;100</u> Feet
Drinking Water Well_>100 Feet	Drainage way >100 Feet
Property Line <u>*</u> Feet	Other
* See Plan	

DEEP OBSERVATION HOLE LOG					
Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, boulders, Consistency, % Gravel)
0-12" 12"-108"	Fill C1	M-C Sand	2.5 y 7/3	@42"(7.5yr 5/6)	Loose - single grain

Parent Material (geologic) <u>Glacial Outwash</u> Depth of Bedrock <u>None</u>
Depth to Groundwater: Standing Water in Hole: <u>54"</u> Weeping from Pit Face: _54 <u>"</u>
Estimated Seasonal High Ground Water: 42"

Deep Hole Number <u>TH-13</u> Date: <u>4/27/04</u> Time: <u>11:30</u> Weather: <u>Cloudy - 60°</u>
Location (identify on site plan) See Plan
Land Use: <u>Gravel Pit</u> Slope (%) <u>0-5%</u> Surface Stones <u>None</u>
Vegetation: None
Landform: Outwash Plain
Position on landscape: See Plan
Distances from:
Open Water Body <u>&gt;100</u> Feet Possible Wet Area <u>&gt;100</u> Feet
Drinking Water Well <u>&gt;100</u> Feet Drainage way <u>&gt;100</u> Feet
Property Line_*_Feet Other
* See Plan

DEEP OBSERVATION HOLE LOG					
Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, boulders, Consistency, % Gravel)
0-6" 6"-54" 54"-108"	Fill C1 C2	M-C Sand F-M Sand	2.5 y 7/3 2.5 y 6/4	@54"(7.5yr 5/6)	Loose - single grain Loose - single grain

Parent Material (geologic) <u>Glacial Outwash</u> Depth of Bedrock <u>None</u>	2
Depth to Groundwater: Standing Water in Hole: <u>66"</u> Weeping from	n Pit Face: _66 <u>"</u> _
Estimated Seasonal High Ground Water:	54"

Deep Hole Number <u>TH-14</u> Date: <u>4/27/</u>	<u>04</u> Time: <u>11:30</u> Weather: <u>Cloudy - 60°</u>
Location (identify on site plan) See Pla	nn
Land Use: <u>Gravel Pit</u> Slope (%)_	0-5% Surface Stones None
Vegetation: None	_
Landform: Outwash Plain	
Position on landscape: See Plan	
Distances from:	
Open Water Body >100 Feet	Possible Wet Area <u>&gt;100</u> Feet
Drinking Water Well_>100 Feet	Drainage way >100 Feet
Property Line <u>*</u> Feet	Other
* See Plan	

DEEP OBSERVATION HOLE LOG					
Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, boulders, Consistency, % Gravel)
0-12" 12"-72" 72"-120"	Fill C1 C2	M-C Sand F-M Sand	2.5 y 7/3 2.5 y 6/4	@72"(7.5yr 5/6)	Loose - single grain Loose - single grain

Parent Material (geologic) Glacial Outwash Depth of Bedrock None	
Depth to Groundwater: Standing Water in Hole: <u>84"</u> Weeping from I	Pit Face: _84 <u>"</u> _
Estimated Seasonal High Ground Water:	72"

☐Depth observed standing is	n observ	vation hole	_ inches
☐ Depth weeping from side	of obser	vation hole	_ inches
☑ Depth to soil mottles	66"	inches	
☐ Ground water adjustment		feet	
Index Well Number	Readin	g Date	Index well level
Adjustment factor	Adjust	ed ground water level	
Depth of Naturally occurring Pervio	ous Mate	<u>erial</u>	
Does at least four feet of natu	ırally oc	curring material exist	in all areas observed
throughout the area propose	d for the	e soil absorption mate	rial? ves
		1	•
If not, what is the depth of na	aturally	occurring pervious m	aterial?
in not, what is the depth of its	accircuity	occurring per vious in	
<u>Certification</u>			
Certification			
I certify that on <u>Sept. 1996</u>	(date)	I have passed the eva	amination approved by
the department of Environmental Pr			· ·
by me consistent with the required	training	g, expertise and exper	rience described in 310
CMR 15.017.			

☐Depth observed standing i	n observ	ation hole	_inches
☐ Depth weeping from side	of obser	vation hole	_ inches
☑ Depth to soil mottles	66"	inches	
☐ Ground water adjustment	·	_feet	
Index Well Number	Readin	g Date	Index well level
Adjustment factor	Adjust	ed ground water level	
Depth of Naturally occurring Pervio	ous Mate	<u>erial</u>	
Does at least four feet of natu	arally oc	curring material exist	in all areas observed
throughout the area propose	d for the	e soil absorption mate	rial? ves
		1	<del></del>
If not, what is the depth of na	aturally	occurring pervious m	aterial?
ir not, what is the depth of in	atarany	occurring pervious in	ateriar.
Contiliantion			
<u>Certification</u>			
I certify that on <u>Sept. 1996</u>	(date)	I have passed the exa	umination approved by
the department of Environmental Pr			
-			-
by me consistent with the required	training	g, expertise and expe	rience described in 310
CMR 15.017.			

☐Depth observed standing i	n observation hole	_ inches
☐ Depth weeping from side	of observation hole	_ inches
☑ Depth to soil mottles	60" inches	
☐ Ground water adjustment	feet	
Index Well Number	Reading Date	Index well level
Adjustment factor	Adjusted ground water level	1
Depth of Naturally occurring Pervic	ous Material	
Does at least four feet of natu	arally occurring material exist	in all areas observed
throughout the area propose	ed for the soil absorption mate	rial? <u>yes</u>
If not, what is the depth of n	aturally occurring pervious m	aterial?
<u>Certification</u>		
I certify that on Sept. 1996	_ (date) I have passed the exa	amination approved by
the department of Environmental P	rotection and that the above a	analysis was performed
by me consistent with the required	training, expertise and exper	rience described in 310
CMR 15.017.		

□Depth observed standing in observation hole inches
☐ Depth weeping from side of observation hole inches
☑ Depth to soil mottles <u>54"</u> inches
☐ Ground water adjustment feet
Index Well Number Reading Date Index well level
Adjustment factor Adjusted ground water level
Depth of Naturally occurring Pervious Material
Does at least four feet of naturally occurring material exist in all areas observed throughout the area proposed for the soil absorption material? <u>yes</u>
If not, what is the depth of naturally occurring pervious material?
<u>Certification</u>
I certify that on Sept. 1996 (date) I have passed the examination approved by the department of Environmental Protection and that the above analysis was performed
by me consistent with the required training, expertise and experience described in 310
CMR 15.017.
SignatureDate 5/24/05

☐Depth observed standing i	n observ	ation hole	_inches
☐ Depth weeping from side	of obser	vation hole	_ inches
☑ Depth to soil mottles	54"	inches	
☐ Ground water adjustment		_feet	
Index Well Number	Readin	g Date	Index well level
Adjustment factor	Adjust	ed ground water level	
Depth of Naturally occurring Pervic	us Mate	<u>erial</u>	
Does at least four feet of natu	ırally oc	curring material exist	in all areas observed
throughout the area propose	d for the	e soil absorption mate	rial? ves
0 1 1		1	<del></del>
If not, what is the depth of na	aturally	occurring pervious m	aterial?
in not, what is the depart of in	acarany	occurring pervious in	
Certification			
Certification			
I certify that on <u>Sept. 1996</u>	(date)	I have passed the exa	amination approved by
the department of Environmental P		<del>-</del>	
by me consistent with the required			-
	пашш	g, expertise and exper	Hence described in 510
CMR 15.017.			

☐Depth observed standing	in obser	vation hole	_ inches
☐ Depth weeping from side	e of obse	rvation hole	_ inches
☑ Depth to soil mottles	60"	_inches	
☐ Ground water adjustmer	nt	_feet	
Index Well Number	Readi	ng Date	Index well level
Adjustment factor	Adjus	ted ground water leve	1
Depth of Naturally occurring Pervi	ious Mat	<u>erial</u>	
Does at least four feet of na	turally o	ccurring material exist	t in all areas observed
throughout the area propos	-	<u>C</u>	
disoughout the area propos	cu ioi ui	e son acsorption mate	<u>y es</u>
If not support is the double of	n a kuwa 11r		nataria12
If not, what is the depth of i	naturany	occurring pervious ii	iateriai?
<u>Certification</u>			
I certify that on <u>Sept. 1996</u>	(date)	I have passed the exa	amination approved by
the department of Environmental l	Protectio	n and that the above a	analysis was performed
by me consistent with the required	d trainin	g, expertise and expe	rience described in 310
CMR 15.017.			

☐Depth observed standing i	n observ	ation hole	_inches
☐ Depth weeping from side	of obser	vation hole	_ inches
☑ Depth to soil mottles	54"	inches	
☐ Ground water adjustment		_feet	
Index Well Number	Readin	g Date	Index well level
Adjustment factor	Adjust	ed ground water level	
Depth of Naturally occurring Pervio	us Mate	<u>erial</u>	
Does at least four feet of natu	ırally oc	curring material exist	in all areas observed
throughout the area propose	d for the	e soil absorption mate	rial? ves
0 1 1		1	<del></del>
If not, what is the depth of na	aturally	occurring pervious m	aterial?
ir not, what is the depth of in	acarany	occurring pervious in	ateriar.
Certification			
Certification			
I certify that on <u>Sept. 1996</u>	(date)	I have passed the exa	amination approved by
the department of Environmental Pr		_	
by me consistent with the required			-
	пашші	g, expertise and exper	Hence described in 510
CMR 15.017.			

☐Depth observed standing i	n observ	vation hole	_inches
☐ Depth weeping from side	of obser	vation hole	_ inches
☑ Depth to soil mottles	48"	inches	
☐ Ground water adjustment	:	_feet	
Index Well Number	Readin	g Date	Index well level
Adjustment factor	Adjust	ed ground water level	
Depth of Naturally occurring Pervic	ous Mate	<u>erial</u>	
Does at least four feet of natu	arally oc	curring material exist	in all areas observed
throughout the area propose	d for th	e soil absorption mate	rial? ves
0 1 1		1	<del></del>
If not, what is the depth of na	aturally	occurring pervious m	aterial?
in not, what is the depart of in	atarany	occurring pervious in	
Certification			
<u>Certification</u>			
I certify that on <u>Sept. 1996</u>	(date)	I have passed the exa	amination approved by
the department of Environmental P			
-			-
by me consistent with the required	trainin	g, expertise and expe	rience described in 510
CMR 15.017.			

□Depth observed standing in observation hole inches
☐ Depth weeping from side of observation hole inches
☑ Depth to soil mottles <u>54"</u> inches
☐ Ground water adjustment feet
Index Well Number Reading Date Index well level
Adjustment factor Adjusted ground water level
Depth of Naturally occurring Pervious Material
Does at least four feet of naturally occurring material exist in all areas observed throughout the area proposed for the soil absorption material? <u>yes</u>
If not, what is the depth of naturally occurring pervious material?
<u>Certification</u>
I certify that on Sept. 1996 (date) I have passed the examination approved by the department of Environmental Protection and that the above analysis was performed
by me consistent with the required training, expertise and experience described in 310
CMR 15.017.
SignatureDate5/24/05

☐Depth observed standing is	n observ	ation hole	_ inches
☐ Depth weeping from side	of obser	vation hole	_ inches
☑ Depth to soil mottles	24"	inches	
☐ Ground water adjustment		feet	
Index Well Number	Readin	g Date	Index well level
Adjustment factor	Adjust	ed ground water level	
Depth of Naturally occurring Pervio	ous Mate	<u>erial</u>	
Does at least four feet of natu	ırally oc	curring material exist	in all areas observed
throughout the area propose	d for the	e soil absorption mate	rial? ves
		1	•
If not, what is the depth of na	aturally	occurring pervious m	aterial?
in not, what is the depth of its	acarany	occurring pervious in	
<u>Certification</u>			
Certification			
I certify that on <u>Sept. 1996</u>	(date)	I have passed the eva	amination approved by
the department of Environmental Pr			, I
by me consistent with the required	training	g, expertise and exper	rience described in 310
CMR 15.017.			

☐Depth observed standing in o	observation hole	_ inches
☐ Depth weeping from side of	observation hole	inches
$\boxtimes$ Depth to soil mottles <u>6</u>	<u>6"</u> inches	
☐ Ground water adjustment _	feet	
Index Well Number R	Reading Date	Index well level
	Adjusted ground water level	
Depth of Naturally occurring Pervious	s Material	
Does at least four feet of natura throughout the area proposed	,	
If not, what is the depth of natu	arally occurring pervious ma	nterial?
Certification		
I certify that on Sept. 1996 (	(date) I have passed the exa	mination approved by
the department of Environmental Pro-	tection and that the above a	nalysis was performed
by me consistent with the required tr	raining, expertise and exper	ience described in 310
CMR 15.017.		
Signature_	Date	5/24/05

☐Depth observed standing i	n observation hole	_ inches
☐ Depth weeping from side	of observation hole	_ inches
☑ Depth to soil mottles	42" inches	
☐ Ground water adjustment	feet	
Index Well Number	Reading Date	Index well level
Adjustment factor	Adjusted ground water level	1
Depth of Naturally occurring Pervic	ous Material	
Does at least four feet of natu	arally occurring material exist	in all areas observed
throughout the area propose	ed for the soil absorption mate	rial? <u>yes</u>
If not, what is the depth of n	aturally occurring pervious m	aterial?
<u>Certification</u>		
I certify that on Sept. 1996	_ (date) I have passed the exa	amination approved by
the department of Environmental P	rotection and that the above a	analysis was performed
by me consistent with the required	training, expertise and exper	rience described in 310
CMR 15.017.		

□Depth observed standing in observation hole inches
☐ Depth weeping from side of observation hole inches
☑ Depth to soil mottles <u>54"</u> inches
☐ Ground water adjustment feet
Index Well Number Reading Date Index well level
Adjustment factor Adjusted ground water level
Depth of Naturally occurring Pervious Material
Does at least four feet of naturally occurring material exist in all areas observed throughout the area proposed for the soil absorption material? <u>yes</u>
If not, what is the depth of naturally occurring pervious material?
Certification
I certify that on Sept. 1996 (date) I have passed the examination approved by the department of Environmental Protection and that the above analysis was performed
by me consistent with the required training, expertise and experience described in 310
CMR 15.017.
Signature

☐Depth observed standing in	n observation hole	_ inches
☐ Depth weeping from side	of observation hole	_ inches
☑ Depth to soil mottles	72" inches	
☐ Ground water adjustment	feet	
Index Well Number	Reading Date	Index well level
Adjustment factor	Adjusted ground water level	
Depth of Naturally occurring Pervio	us Material	
	urally occurring material exist	
If not, what is the depth of na	aturally occurring pervious m	aterial?
<u>Certification</u>		
I certify that on Sept. 1996	, ,	
the department of Environmental Pr		
by me consistent with the required	training, expertise and exper	rience described in 310
CMR 15.017.		
Signature_	Date	5/24/05