

Soil Suitability Assessment

Site: 9 Bancroft Street

City/Town: Andover, MA

Soil Evaluator/Soil Scientist: Maureen Herald – Norse Environmental Services, Inc.

C. On-Site Review

Deep Observation Hole Number: DHA – DHF 8/6/24 10:30 a.m. Rainy- 75 F
Date Time Weather

1. Location

Ground Elevation at Surface of Hole: See Plan

Location (Identify on Plan): See Plan

2. Land Use: Residential site – farm field None Varies
(e.g. woodland, agricultural field, vacant lot, etc.) Surface Stones Slope (%)

Grasses
Vegetation

Drumloldal
Landform

Back Slope
Position on landscape (attach sheet)

3. Distances from: Open Water Body >10 ft. Drainage Way >100 ft. Possible Wet Area >100 ft.
feet feet feet
Property Line >10 ft. Drinking Water Well _____ Other _____
feet feet

4. Parent Material: Glacial Till Unsuitable Materials Present: Yes No

If Yes: Disturbed Soil Fill Material Impervious Layer(s) Weathered/Fractured Rock Bedrock

5. Groundwater Observed: Yes No - Varies throughout the Deep Holes – See next page

If Yes: Depth Weeping from Pit: N/A Depth Standing Water in Hole: N/A

Estimated Depth to High Groundwater: _____ _____
inches elevation

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Deep Observation Hole Number: DH-A

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"	Ap	10YR 2/2				FSL			Granular	Friable	
12-25"	Bw	10YR 5/4				FSL			Weak Blocky	Friable	
25-67"	C	2.5Y 5/3	50"	7.5YR 5/6	15%	SL			Massive	Friable	

Additional Notes: ESHWT 50" / No Observed Water

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Deep Observation Hole Number: DH-B

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"	Ap	10YR 2/2				FSL			Granular	Friable	
16-45"	Bw	10YR 5/4				FSL			Weak Blocky	Friable	
45-85"	C	2.5Y 5/3	48"	7.5YR 5/6	15%	SL			Massive	Friable	

Additional Notes: ESHWT 48" / No Observed Water

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Deep Observation Hole Number: DH-C

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"	Ap	10YR 2/2				FSL			Granular	Friable	
16-30"	Bw	10YR 5/4				FSL			Weak Blocky	Friable	
30-114"	C	2.5Y 5/3	75"	7.5YR 5/6	20%	SL			Massive	Friable	

Additional Notes: ESHWT 75"/ No Observed Water

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Deep Observation Hole Number: DH-D

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"	Fill										
12-18"	Ab	10YR 2/2				FSL			Weak Blocky	Friable	
18-26"	B	10YR 5/4				FSL			Massive	Friable	
26-80"	C	2.5Y 5/3	50"	7.5 YR 6/6	15%	SL			Massive	Friable	

Additional Notes: ESHWT 50" / No Observed Water

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Deep Observation Hole Number: DH-E

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			
0-14"	Ap	10YR 2/2				FSL			Granular	Friable	
14-27"	Bw	10YR 5/4				FSL			Weak Blocky	Friable	
27-79"	C	2.5Y 5/3	50"	7.5YR 5/6	20%	SL			Massive	Friable	

Additional Notes: ESHWT 50"/ No Observed Water

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Deep Observation Hole Number: DH-F

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			
0-14"	Ap	10YR 2/2				FSL			Granular	Friable	
14-30"	Bw	10YR 5/4				SL			Weak Blocky	Friable	
30-80"	C	2.5Y 5/3	55"	7.5 YR 6/6	15%	SL			Massive	Friable	

Additional Notes: ESHWT 55"/ No Observed Water

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D. Certification

I certify that I have passed the soil evaluator 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.

Maureen Herald

Signature of Soil Evaluator

8-12-24

Date

Maureen Herald

Typed or Printed Name of Soil Evaluator

SE13578

Soil Evaluator Number

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E. Test Pit Locations

See Plan