



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

A. Facility Information

Trustees of Derby Academy C/O Jeffrey Camuso

Owner Name

56 Burditt Avenue

Street Address

Hingham

City

MA

State

49/#57

Map/Lot #

02043

Zip Code

B. Site Information

1. (Check one) New Construction Upgrade

2. Soil Survey Web Soil Survey 266B Warwick fine sandy loam
Source Soil Map Unit Soil Series

Summit, shoulder, tread None
Landform Soil Limitations

Coarse-loamy eolian deposits over sandy and gravelly glaciofluvial deposits
Soil Parent material

3. Surficial Geological Report Version 18/Sep 5 2025 640
Year Published/Source Map Unit

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): 12/4/25 Range: Above Normal Normal Below Normal
Month/Day/ Year

8. Other references reviewed: USGS
(Zone II, IWPA, Zone A, EEA Data Portal, etc.)



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

Deep Observation Hole Number: 1 Hole # 12/4/25 Date 830 Time 35 Clear Weather 42.248990 Latitude -70.895038 Longitude

1. Land Use Woodland (e.g., woodland, agricultural field, vacant lot, etc.) maintained along slope Vegetation Fill Surface Stones (e.g., cobbles, stones, boulders, etc.) 3-8 Slope (%)

Description of Location: Slope behind gym and retaining wall

2. Soil Parent Material: loamy over gravelly/sandy deposits Shoulder Landform SH Position on Landscape (SU, SH, BS, FS, TS, Plain)

3. Distances from: Open Water Body >100' feet Drainage Way >100' feet Wetlands >50' feet
 Property Line >100' 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

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"-30" | F | - | - | - | Cnc :- | - | - | - | - | - | - |
| | | | | - | Dpl: - | | | | | | |
| 30"-39" | Ap | SL | 10YR 3/2 | - | Cnc :- | - | 20 | | Weak | Friable | |
| | | | | - | Dpl: - | | | | | | |
| 39"-50" | Bw | SL | 7.5YR 5/8 | - | Cnc :- | - | 20 | | Weak | Friable | |
| | | | | - | Dpl: - | | | | | | |
| 50"-96" | 2C | SL | 5YR 5/8 | - | Cnc :- | - | 10 | 20 | Mod | Very Friable | |
| | | | | - | Dpl: - | | | | | | |
| | | | | | Cnc : | | | | | | |
| | | | | | Dpl: | | | | | | |
| | | | | | Cnc : | | | | | | |
| | | | | | Dpl: | | | | | | |

Additional Notes:



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D. Determination of High Groundwater Elevation

1. Method Used (Choose one):

Depth to soil redoximorphic features

Obs. Hole # 1

_____ inches

Obs. Hole # 2

_____ inches

Depth to observed standing water in observation hole

_____ inches

_____ inches

Depth to adjusted seasonal high groundwater (S_h)
(USGS methodology)

90 inches

90 inches

01105638

Index Well Number

12-5-25

Reading Date

$$S_h = S_c - [S_r \times (OW_c - OW_{max}) / OW_r]$$

Obs. Hole/Well# 1 & 2

S_c 96

S_r 15

OW_c 2.68

OW_{max} 0.6

OW_r 5.5

S_h 90

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: 39 (o.g.)
inches

Lower boundary: 96 (o.g.)
inches

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

Upper boundary: _____
inches

Lower boundary: _____
inches



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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

Date

Typed or Printed Name of Soil Evaluator / License #

Expiration Date of License

Name of Approving Authority Witness

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: