

No.	Date	Note
		REVISIONS
		ISSUE

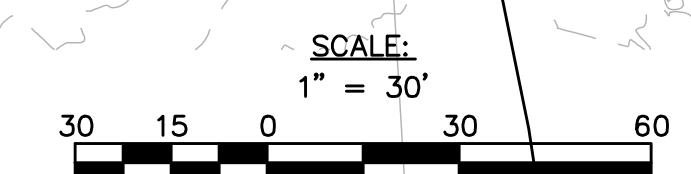
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Schematic Design

Key Plan

TEST PIT LOCATION PLAN

Drawn By	Project ID
Reviewed By	Scale
Issue Date	Plot Date
Sheet No.	





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

A. Facility Information

David Mindess Elementary School

Owner Name

90 Concord Street

Street Address

Ashland

City

MA

State

Map/Lot #

MA

Zip Code

B. Site Information

1. (Check one) New Construction Upgrade Repair

2. Soil Survey Available? Yes No If yes:

USDA-NRCS

Source

654

Soil Map Unit

Udorthents, loamy

Soil Name

Soil Limitations

Loamy alluvium and/or sandy glaciofluvial deposits and/or loamy glaciolacustrine deposits and/or loamy marine deposits and/or loamy basal till and/or loamy lodgement till

Soil Parent material

Landform

3. Surficial Geological Report Available? Yes No

If yes:

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):

Month/Day/ Year

Range: Above Normal

Normal

Below Normal

8. Other references reviewed:



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

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

Deep Observation Hole Number: TP-101 12/8/20 9:34 am
Hole # Date Time

1. Land Use Open Space Grass Stones & boulders, rockwalls, ledge outcrops _____
(e.g., woodland, agricultural field, vacant lot, etc.) Vegetation Surface Stones (e.g., cobbles, stones, boulders, etc.) Longitude:

Description of Location: Front of school 0-3 percent
Slope (%)

2. Soil Parent Material: _____
Landform Position on Landscape (SU, SH, BS, FS, TS)

3. Distances from: Open Water Body _____ feet Drainage Way _____ feet Wetlands _____ feet
Property Line _____ feet Drinking Water Well _____ 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 Weeping from Pit _____ Depth 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			
0-10	Ap	-	-	-	-	-	-	-	-	-	-
10-20	Fill	Sandy Loam	10YR 5/3	-	-	-	10	-	Massive	Friable	
20-53	C1	Sand	10YR 5/6	-	-	-	35	10	Single Grain	Loose	Very Gravelly

Additional Notes: No groundwater table observed
Ledge encountered at 53"



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

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

Deep Observation Hole Number: TP-102 12/9/20 1:00 pm
Hole # Date Time

1. Land Use Open Space Grass Stones & boulders, rockwalls, ledge outcrops 3-5 percent
(e.g., woodland, agricultural field, vacant lot, etc.) Vegetation Surface Stones (e.g., cobbles, stones, boulders, etc.) Slope (%)

Description of Location: Front of school

2. Soil Parent Material: _____
Landform Position on Landscape (SU, SH, BS, FS, TS)

3. Distances from: Open Water Body _____ feet Drainage Way _____ feet Wetlands _____ feet
 Property Line _____ feet Drinking Water Well _____ 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: 99" Depth Weeping from Pit N/A Depth 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			
0-14	Ap	-	-	-	-	-	-	-	-	-	-
14-30	Fill	Sandy Loam	10YR 5/4	-	-	-	-	-	Massive	Friable	
30-72	C1	Silt Loam	5Y 5/2	30-40"	2.5 YR 3/6	20%	10	10	Massive	Friable	
72-126	C2	Sandy Loam	10YR 4/6	-	-	-	40	10	Massive	Friable	Very Gravelly Very Moist, viscous

Additional Notes: Water weeping from pit @ 99"
Estimated seasonal high groundwater 30-40"



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

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

Deep Observation Hole Number: TP-103 12/8/20 9:01 am
Hole # Date Time

1. Land Use Open Space/Athletic Field Grass None present _____
(e.g., woodland, agricultural field, vacant lot, etc.) Vegetation Surface Stones (e.g., cobbles, stones, boulders, etc.) Longitude:

Description of Location: East of school in the athletic field 0-3 percent
Slope (%)

2. Soil Parent Material: _____
Landform Position on Landscape (SU, SH, BS, FS, TS)

3. Distances from: Open Water Body _____ feet Drainage Way _____ feet Wetlands _____ feet
Property Line _____ feet Drinking Water Well _____ 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: 55" Depth Weeping from Pit _____ Depth 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			
0-10	Ap	-	-	-	-	-	5-10	-	-	-	-
10-28	Fill	Sandy Loam	2.5Y 5/3	-	-	-	20	-	Massive	Friable	
28-55	C1	Silt Loam	10.5Y 5/3	-	-	-	20	-	Massive	Friable	Small gravel Moist

Additional Notes: Ledge encountered at 55" - some water seeping into pit



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

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

Deep Observation Hole Number: TP-104 12/9/20 1:30 pm
Hole # Date Time

1. Land Use Open Space/Athletic Field Grass None present _____
(e.g., woodland, agricultural field, vacant lot, etc.) Vegetation Surface Stones (e.g., cobbles, stones, boulders, etc.) Longitude:

Description of Location: East of school in the athletic field 0-3 percent
Slope (%)

2. Soil Parent Material: _____
Landform Position on Landscape (SU, SH, BS, FS, TS)

3. Distances from: Open Water Body _____ feet Drainage Way _____ feet Wetlands _____ feet
Property Line _____ feet Drinking Water Well _____ 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: 65" Depth Weeping from Pit _____ Depth 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			
0-6	Ap	-	-	-	-	-	-	-	-	-	-
6-54	C1	Silt Loam	5Y 5/2	-	-	-	15	5	Massive	Friable	
54-120	C2	Loamy sand	10YR 5/6	-	-	-	25	-	Massive	Friable	Very moist towards bottom of pit

Additional Notes: Observed groundwater depth of 65"
The east side of the pit had a 2" layer of organic material at a depth from 54-56" that did not appear to be present on the west side of the pit



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

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

Deep Observation Hole Number: TP-106 12/9/20 10:40 am
Hole # Date Time

1. Land Use Open Space Grass Stones & boulders, ledge outcrops _____
(e.g., woodland, agricultural field, vacant lot, etc.) Vegetation Surface Stones (e.g., cobbles, stones, boulders, etc.) Longitude:

Description of Location: Front of school behind firehydrant 10-15 percent
Slope (%)

2. Soil Parent Material: _____
Landform Position on Landscape (SU, SH, BS, FS, TS)

3. Distances from: Open Water Body _____ feet Drainage Way _____ feet Wetlands _____ feet
Property Line _____ feet Drinking Water Well _____ 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: 96" Depth Weeping from Pit _____ Depth 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			
0-6	Ap	-	-	-	-	-	-	-	-	-	-
6-96	Fill	Sandy Loam	10YR 5/3	-	-	-	15	10	Massive	Friable	
96-104	Ab	Silt Loam	5Y 2.5/1	-	-	-	5	-	-	-	
104-134	C1	Silt Loam	5Y 5/1	-	-	-	5	-	Massive	Friable	Hard in place, friable out of place

Additional Notes: During excavation an unmarked sewer pipe was hit at 65". DPW came on-site and helped fix the issue. Moved pit back away from school 5-10 feet.
Ground water table observed at 96"
Some redox features present at approx 5' but not consistent.
There appeared to be a thin layer of gravel within the fill material at approx 4'



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

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

Deep Observation Hole Number: TP-107 12/1/20 _____
Hole # Date Time

1. Land Use Overgrown Woodland Brush Stones & boulders, rockwalls _____
(e.g., woodland, agricultural field, vacant lot, etc.) Vegetation Surface Stones (e.g., cobbles, stones, boulders, etc.) Longitude: 0-3 percent

Description of Location: Behind firstbase dugout, next to batting cage _____
Slope (%)

2. Soil Parent Material: _____
Landform Position on Landscape (SU, SH, BS, FS, TS)

3. Distances from: Open Water Body _____ feet Drainage Way _____ feet Wetlands _____ feet
Property Line _____ feet Drinking Water Well _____ 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 Weeping from Pit _____ Depth 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			
0-12	Ap										
12-36	Fill	Sandy Loam	10YR 4/4				20	10	Massive	Friable	
36-42	Ab	Sandy Loam					10		Massive	Friable	Water seeping @ 36"
42-72	C1	Silt Loam	2.5Y 5/2				15	20	Massive	Friable	
72-126	C2	Silt Loam	2.5Y 5/3	72-84	7.5 YR 5/4	30	20	15	Massive	Friable	Formed ribbon

Additional Notes: No Groundwater Table observed
Estimated Seasonal High Groundwater 72"
Boulders present while excavating
Top layer of soil was very moist, pit initially filled with water after excavating 3-4 feet depth. Continued digging and observed water seeping in from upper layers (approx 36")
High water content in all soils



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

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

Deep Observation Hole Number: TP-108 12/1/20
 Hole # Date Time Weather Latitude Longitude:

1. Land Use: Woodland
 (e.g., woodland, agricultural field, vacant lot, etc.) Vegetation Boulders
 Surface Stones (e.g., cobbles, stones, boulders, etc.) 5-10%
 Slope (%)

Description of Location: Wooded area behind school

2. Soil Parent Material: _____
 Landform _____ Position on Landscape (SU, SH, BS, FS, TS) _____

3. Distances from: Open Water Body _____ feet Drainage Way _____ feet Wetlands _____ feet
 Property Line _____ feet Drinking Water Well _____ 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: 12-48" Depth Weeping from Pit 132" Depth 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			
0-16	Ap										
16-24	B	Sandy Loam	10YR 5/4						Massive	Friable	Very Moist
24-48	C1	Sandy Loam	10YR 5/6	60"	7.5 YR 5/4	30	25	20	Massive	Friable	Very Moist
48-138	C2	Sandy Loam	2.5Y 5/4				25	20	Massive	Friable	Moist soil, but much drier than C1 and B layers

Additional Notes: Groundwater observed at bottom of pit (approx 132")
Estimated Seasonal High Groundwater at 60"
0-48" very moist with ponding water (similar to TP#107). Indicative of recent rainfall infiltrating.
Multiple 24" boulders encountered while excavating, surface stones present throughout wooded area.



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

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

Deep Observation Hole Number: TP-109 12/10/20 9:30 am Cloudy, 38 degrees F

Hole # Date Time Weather Latitude Longitude:

1. Land Use Open Space Grass None present 0-3 percent

(e.g., woodland, agricultural field, vacant lot, etc.) Vegetation Surface Stones (e.g., cobbles, stones, boulders, etc.) Slope (%)

Description of Location: West wing of school

2. Soil Parent Material: _____

Landform Position on Landscape (SU, SH, BS, FS, TS)

3. Distances from: Open Water Body _____ feet Drainage Way _____ feet Wetlands _____ feet

Property Line _____ feet Drinking Water Well _____ 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: 78" Depth Weeping from Pit 112" Depth 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			
0-7	Ap	Sandy Loam	-	-	-	-	-	-	-	-	
7-120	C1	Sandy Loam	10YR 5/4	70"	7.5YR 5/6	15	25-30	15-20	Massive	Friable	Possible fill material

Additional Notes: Dig down 2'+/-, hit gravel/stone, possible utility pipe below, moved test pit 10' west
Fair amount of cobbles and stone, some 24"+ in diameter



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

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

Deep Observation Hole Number: TP-110 12/10/20 8:00 am Sunny, 35 degrees F

Hole # Date Time Weather Latitude Longitude:

1. Land Use Open Space Grass None present 0-3 percent

(e.g., woodland, agricultural field, vacant lot, etc.) Vegetation Surface Stones (e.g., cobbles, stones, boulders, etc.) Slope (%)

Description of Location: Third base line of softball field in front of school

2. Soil Parent Material: _____

Landform Position on Landscape (SU, SH, BS, FS, TS)

3. Distances from: Open Water Body _____ feet Drainage Way _____ feet Wetlands _____ feet

Property Line _____ feet Drinking Water Well _____ 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: 60" Depth Weeping from Pit 140" Depth 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			
0-10	Ap	Sandy Loam	-	-	-	-	0-5	-	Massive	Friable	
10-27	Fill	Sandy Loam	10YR 5/4	-	-	-	0-5	-	Massive	Friable	
27-33	C1	Loamy Sand	10YR 6/4	-	-	-	5	-	Single Grain	Loose	
33-60	C2	Sandy Loam	10YR 6/4	-	-	-	0-5	-	Massive	Friable	
60-116	C3	Silt Loam	Gley 1 7/N	-	-	-	-	-	Platy	Firm	Very plastic material
116-144	C4	Sandy Loam	10YR 6/4	-	-	-	25	10	Massive	Friable	

Additional Notes: Upper soil layers are moist from recent snow melt
Some weeping at 30"-34", not consistent around pit, assume due to recent snow melt and texture change
Consistent weeping at top of C3 layer (60")
No redox features visible



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

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

Deep Observation Hole Number: TP-111 12/9/20 7:50 am
Hole # Date Time

Weather: _____ Latitude: _____ Longitude: _____
Weather Latitude Longitude:

1. Land Use: Open Space Grass ledge outcrops 0-3 percent
(e.g., woodland, agricultural field, vacant lot, etc.) Vegetation Surface Stones (e.g., cobbles, stones, boulders, etc.) Slope (%)

Description of Location: Third base line of softball field in front of school

2. Soil Parent Material: _____
Landform Position on Landscape (SU, SH, BS, FS, TS)

3. Distances from: Open Water Body _____ feet Drainage Way _____ feet Wetlands _____ feet
Property Line _____ feet Drinking Water Well _____ 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: 88" Depth Weeping from Pit _____ Depth 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			
0-10	Ap	-	-	-	-	-	-	-	-	-	-
10-28	Fill	Loamy Sand	10YR 3/4	-	-	-	15	10	Single	Loose	
28-34	Ab	-	10YR 2/1	-	-	-	5	-	Massive	Very Firm	Hard in place -old bitumin?
34-60	C1	Loamy Sand	7.5YR 4/6	-	-	-	40	0-5	Single	Firm	Very gravelly, hard in place
60-88	C2	Silt Loam	10YR 3/3				0	0	Massive	Firm	relatively plastic material
88-144	C3	Silt Loam	Gley 1 4/10Y				0	0	Massive	N/A (plastic)	very plastic material

Additional Notes: First few buckets at original TP location appeared to consist of mostly imported gravel. Moved TP location approx 5-10 feet to the east to avoid possible conflict
Groundwater observed at approximately 88"
No pooled groundwater present at bottom of pit, likely trapped in silt layer.



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

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

Deep Observation Hole Number: TP-113 12/9/20 10:20 am
Hole # Date Time

1. Land Use Woodland woods - None present _____
(e.g., woodland, agricultural field, vacant lot, etc.) Vegetation Surface Stones (e.g., cobbles, stones, boulders, etc.) Longitude:

Description of Location: West side of access road exiting school 0-3 percent
Slope (%)

2. Soil Parent Material: _____
Landform Position on Landscape (SU, SH, BS, FS, TS)

3. Distances from: Open Water Body _____ feet Drainage Way _____ feet Wetlands _____ feet
Property Line _____ feet Drinking Water Well _____ 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: 90" Depth Weeping from Pit _____ Depth 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			
0-13	Ap	-	-	-	-	-	-	-	-	-	-
13-40	B	Silt Loam	-	-	-	-	0	5	Massive	Friable	
40-68	C1	Loamy Sand	10YR 4/2	46-50"	10 YR 3/6	30	20	15	Massive	Friable	
68-132	C2	Silt Loam	Gley 1 4/10Y	-	-	-	0	0	Massive	Friable	

Additional Notes:



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

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

Deep Observation Hole Number: TP-114 12/9/20 2:00 pm
Hole # Date Time

1. Land Use Open Space Grass None Present _____
(e.g., woodland, agricultural field, vacant lot, etc.) Vegetation Surface Stones (e.g., cobbles, stones, boulders, etc.)

Description of Location: West wing of school _____
Longitude: 0-3 percent

2. Soil Parent Material: _____
Landform Position on Landscape (SU, SH, BS, FS, TS)

3. Distances from: Open Water Body _____ feet Drainage Way _____ feet Wetlands _____ feet
 Property Line _____ feet Drinking Water Well _____ 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: 84" Depth Weeping from Pit _____ Depth 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			
0-10	Ap	-	-	-	-	-	-	-	-	-	
10-126	C1	Silt Loam	2.5Y 5/3	-	-	-	5	-	Massive	Firm/Friable	Hard in place Possible fill material refusal at 126"

Additional Notes: Observed water table 84"
Bright colors throughout pit, inconsistent - Color 7.5 YR 5/8



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

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

Deep Observation Hole Number: TP-115 12/10/20 1:30 pm Cloudy, 44 degrees F
Hole # Date Time Weather Latitude Longitude:

1. Land Use Open Space Grass None present
(e.g., woodland, agricultural field, vacant lot, etc.) Vegetation Surface Stones (e.g., cobbles, stones, boulders, etc.) Slope (%)

Description of Location: Front of school behind fire hydrant

2. Soil Parent Material: _____
Landform Position on Landscape (SU, SH, BS, FS, TS)

3. Distances from: Open Water Body _____ feet Drainage Way _____ feet Wetlands _____ feet
 Property Line _____ feet Drinking Water Well _____ 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: XX" Depth Weeping from Pit _____ Depth 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			
0-12	Ap	Sandy Loam	-	-	-	-	-	-	-	-	-
12-60	Fill	Sandy Loam	10YR 6/4	-	-	-	10-15	0-5	Massive	Friable	

Additional Notes: Test pit terminated at 60", ran out of time to continue digging after infiltrometer test was complete



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

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

Deep Observation Hole Number: TP-116 12/9/20 1:10 pm
Hole # Date Time

Weather: _____ Latitude: _____ Longitude: _____
ledge outcrops

1. Land Use: Open Space Grass ledge outcrops
(e.g., woodland, agricultural field, vacant lot, etc.) Vegetation Surface Stones (e.g., cobbles, stones, boulders, etc.)

Description of Location: Behind first base dugout of softball field in front of school

2. Soil Parent Material: _____
Landform Position on Landscape (SU, SH, BS, FS, TS)

3. Distances from: Open Water Body _____ feet Drainage Way _____ feet Wetlands _____ feet
 Property Line _____ feet Drinking Water Well _____ 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: 96" Depth Weeping from Pit _____ Depth 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			
0-10	Ap	-	-	-	-	-	-	-	-	-	
10-32	B	Silt Loam	10YR 5/1	-	-	-	5	0	Massive	Friable	
32-48	C1	Silt Loam	5Y 5/2	32-40"	10 YR 5/6	10	0-5	0	Massive	Friable	Root zone ends approx 32"
48-84	C2	Sandy Loam	7.5 YR 5/1	-	-	-	30	0	Massive	Friable	
84-126	C3	Loamy Sand	10YR 3/4	-	-	-	60	15	Single	Weak	Extremely Gravelly

Additional Notes: Observed water table 7'
Boulder at approx. 7' that extended to bottom of pit.



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

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

Deep Observation Hole Number: TP-117 12/9/20 9:30 am
Hole # Date Time

Weather: _____ Latitude: _____ Longitude: _____
ledge outcrops

1. Land Use: Open Space Grass ledge outcrops 3-5 percent
(e.g., woodland, agricultural field, vacant lot, etc.) Vegetation Surface Stones (e.g., cobbles, stones, boulders, etc.) Slope (%)

Description of Location: Behind backstop of softball field in front of school

2. Soil Parent Material: _____
Landform Position on Landscape (SU, SH, BS, FS, TS)

3. Distances from: Open Water Body _____ feet Drainage Way _____ feet Wetlands _____ feet
 Property Line _____ feet Drinking Water Well _____ 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: 84" Depth Weeping from Pit _____ Depth 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			
0-8	Ap	-	-	-	-	-	-	-	-	-	
8-28	B	Silt Loam	2.5Y 5/3	-	-	-	5	-	Massive	Friable	
28-132	C1	Loamy Sand	10YR 4/3	24-34	10 YR 5/6	20	35	15	Single	Weak	Very gravelly Gravel content increases with depth

Additional Notes: Observed water table 7'