

Richard Scharf, CPSS
The Soil Guy, LLC
9455 Neumann Circle
Ypsilanti, MI 48197
(252) 402-7354

April 9, 2023

Ms. Laura Scofiled
8610 Schadel Road
Waterville, Ohio 43566

Re: Soil evaluation for 8610 Schadel Road, Waterville, Ohio

Dear Laura:

As requested, I investigated the soils on your property on Schadel Road. It is understood that you need a soil evaluation for a septic system for your 4-bedroom home on the property. My findings are described in this report.

Summary

Two soil borings were described at the locations shown on the attached diagram. The shallowest depth to the perched water table was found at 12 inches.

The surface horizons composed of loam. The infiltration loading rate is 0.6 gpd/ft². The linear loading rate is 3.3 gpd/ft.

Soils

The soils found in the *suggested drainfield area* appear to be of the Mermill series soils. These are deep, poorly drained soils with loamy surface textures overlying subsoils higher in clay.

The perched water table was found at a depth of 12 inches in both borings 1 and 2. No restrictive layer or bedrock was found within 43 inches of the surface.

The slope of the land is 0%.

The design parameters for a septic system are provided in the table below.

Design Parameters

Texture	Structure/ Grade	Depth to Seasonal Saturation	Depth to Restrictive layer	Slope	Infiltration Loading Rate	Hydraulic Linear Loading Rate
loam (S)	SBK/2	12"	>43"	0%	0.6 gpd/ft ²	Sep <12": 3.3 gpd/ft

For a 4-bedroom home, the distribution lines will be required to be about 150 feet long. The system can likely be designed for the suggested area. The area limitations on the suggested area would be the 10-foot setback from the northern property boundary. Other than that, the boundaries of the suggested drain field area are loose, and can be exceeded by about 20 feet in any other direction.

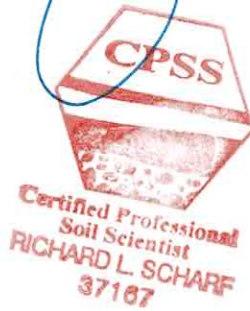
The soil boring sites are marked on site with red pin flags. GPS coordinates are also provided on the attached soil profile forms.

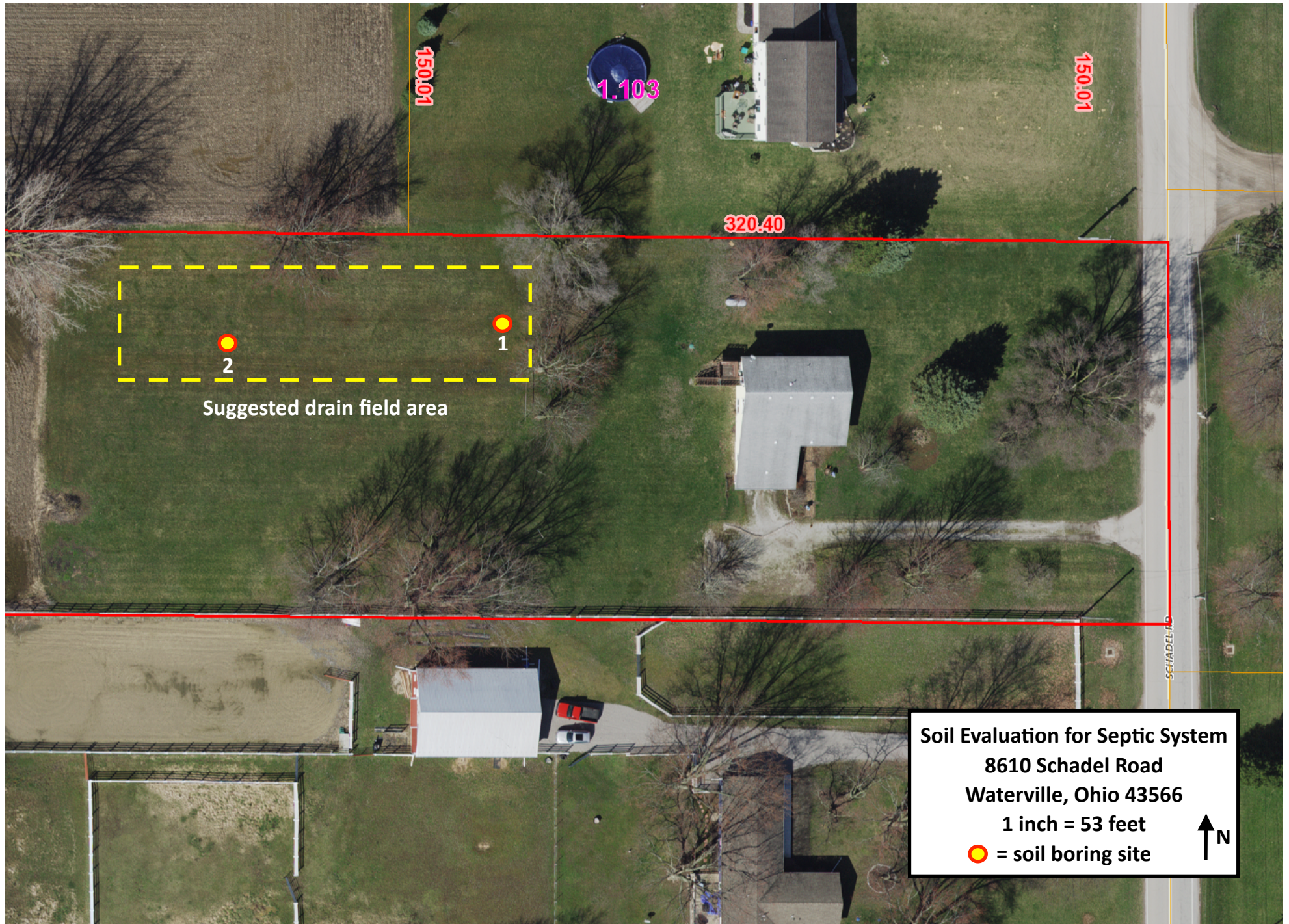
If you or the county health department have any questions regarding this report, please contact me at (252) 402-7354 or rlscharfisol@gmail.com.

Sincerely,



Richard Scharf
CPSS #37167





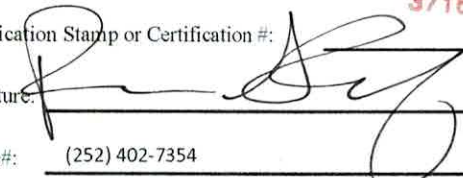
Site and Soil Evaluation for Sewage Treatment and Dispersal



**Certified Professional
Soil Scientist
RICHARD L. SCHARF
37167**

County: Lucas
 Township / Sec.: Providence
 Property Address/Location: 8610 Schudel Rd.
Waterville, OH 43566
 Applicant Name: Laura Scofield
 Address: (same)
 Phone #: _____
 Lot #: _____
 Test Hole #: 1
 Latitude/Longitude: 41.48469; -83.79834
 Method: Pit Auger Probe

Land Use / Vegetation: res/grass
 Landform: late plain
 Position on Landform: flat
 Percent Slope: 0
 Shape of Slope: linear
 Date: 3/20/23
 Evaluator: Richard Scharf
9455 Neumann Cir.
Ypsilanti, MI 48197

Certification Stamp or Certification #: _____
 Signature: 
 Phone#: (252) 402-7354

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Redoximorphic Features		Texture			Structure		
Horizon	Depth (inches)	Matrix Color	Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
A _p	0-12	10YR 3/2	—	—	L	20	0	2	f	SBK	v. fr.	
B _t	12-21	10YR 5/3	10YR 3/2 10YR 5/4	10YR 5/2	CL	30	0	2	f	SBK	fr.	
B _{tg}	21-43	10YR 5/2	10YR 5/4	10YR 7/1 10YR 5/1	CL	30	0	2	m	SBK	fi	
Limiting Conditions		Depth to (in.)	Descriptive Notes			Remarks / Risk Factors:						
Perched Seasonal Water Table		12										
Apparent Water Table		n.a										
Highly Permeable Material		none										
Bedrock		>43										
Restrictive Layer		>43				Too deep to influence system design						

Note : The evaluation should include a complete site plan or site drawing.

Site and Soil Evaluation for Sewage Treatment and Dispersal



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Soil Scientist
RICHARD L. SCHARF
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County: Lucas
 Township / Sec.: Providence
 Property Address/Location: 8610 Schmedel Rd.
Waterville, OH 43566
 Applicant Name: Laura Seyfield
 Address: (same)
 Phone #: _____
 Lot #: _____
 Test Hole #: 2
 Latitude/Longitude: 41.48468, -83.79867
 Method: Pit Auger Probe

Land Use / Vegetation: res/grass
 Landform: large drain
 Position on Landform: flat
 Percent Slope: 0
 Shape of Slope: linear
 Date: 3/20/23
 Evaluator: Richard Scharf
9455 Neumann Cir.
Ypsilanti, MI 48197

Certification Stamp or Certification #: _____
 Signature: 
 Phone#: (252) 402-7354

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Redoximorphic Features		Texture			Structure		
Horizon	Depth (inches)	Matrix Color	Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	Other Soil Features
Ap	0-12	10YR 3/2	-	-	L	20	0	2	f	SBK	v. fr.	
Btg1	12-25	10YR 4/2	10YR 3/2 10YR 4/3	-	CL	30	0	2	f	SBK	fi	Krotovina's
Btg2	25-43	10YR 5/1	10YR 5/6 10YR 5/4	-	CL	35	0	2	m	SBK	fi	Stagnant water @ 12"

Limiting Conditions	Depth to (in.)	Descriptive Notes	Remarks / Risk Factors:
Perched Seasonal Water Table	12		
Apparent Water Table	n.a		
Highly Permeable Material	None		
Bedrock	>43		
Restrictive Layer	>43		Too deep to influence system design

Note : The evaluation should include a complete site plan or site drawing.