
May 18, 2021

Donovan Kukn, Countrytyme Land Specialist, ltd
3451 Cincinnati-Zanesville Rd, SW
Lancaster, OH 43130

Dear Mr. Kukn:

We would like to thank you for requesting our assistance to identify the specific soil properties on the long narrow meadow Track/property located just east of Tatmans Road and between Bearfield township roads 201 NE and 203 NE in Perry County, Ohio.

Enclosed are the following:

1. Location map
2. Aerial Photo Sketch Map of Site
3. Soil Site Descriptions for the different Soil Areas
4. Soil and Site Evaluation and discussion, for the proposed waste water disposal

The information in this report is basic soils information as found on-site. This does not mean that this site is suitable for an STS, that is up to the Perry County Health Department. If I can be of further assistance, in helping to interpret, clarify or add additional information from my notes, please let me know at 304-372-4809 home or 304-532-4711 cell.

Thanks,



Carlos Cole
Soil Scientist

Cc: Chad Cook, R. S. Perry County Health Department

Soil and Site Evaluation Discussion

This soil evaluation is for a new STS (sewage treatment system) for a new home on your property. On the attached sketch map, we have approximately located a new home/building location and proposed a large leach field (soil site descriptions #1, #2, & 3) area to serve as both the primary and secondary leach field areas. These soils have developed in younger or more recent alluvial sediments that were deposited or overlaid on older more clayey alluvial sediments from an older time period. We are not sure how this occurred in geologic time but we are just describing the existing soils today. We also noted a little over-wash with some clay from upslope mixing with the soils in the Ap1 horizon of the #1 soil. We used recent survey marks, to approximately locate the property line on the sketch map for this report.

These soils are well described by the soil site descriptions, and the soils are very similar on the same contour of the slope. The center area/elevation is the better area for a leach field. These are mostly loamy soils with the exception of the #3 soil has more clay in the lower soil horizons. We did not find any hard pans or compacted areas in these soils just an increase in clay in the lower part of the proposed leach field. You may be able to do some ditching or subsurface drainage just above the property line and pipe the water to the natural drainageway between the proposed leach field and proposed home location. The home location will need to be located so you can gravity flow the waste water to the leach field.

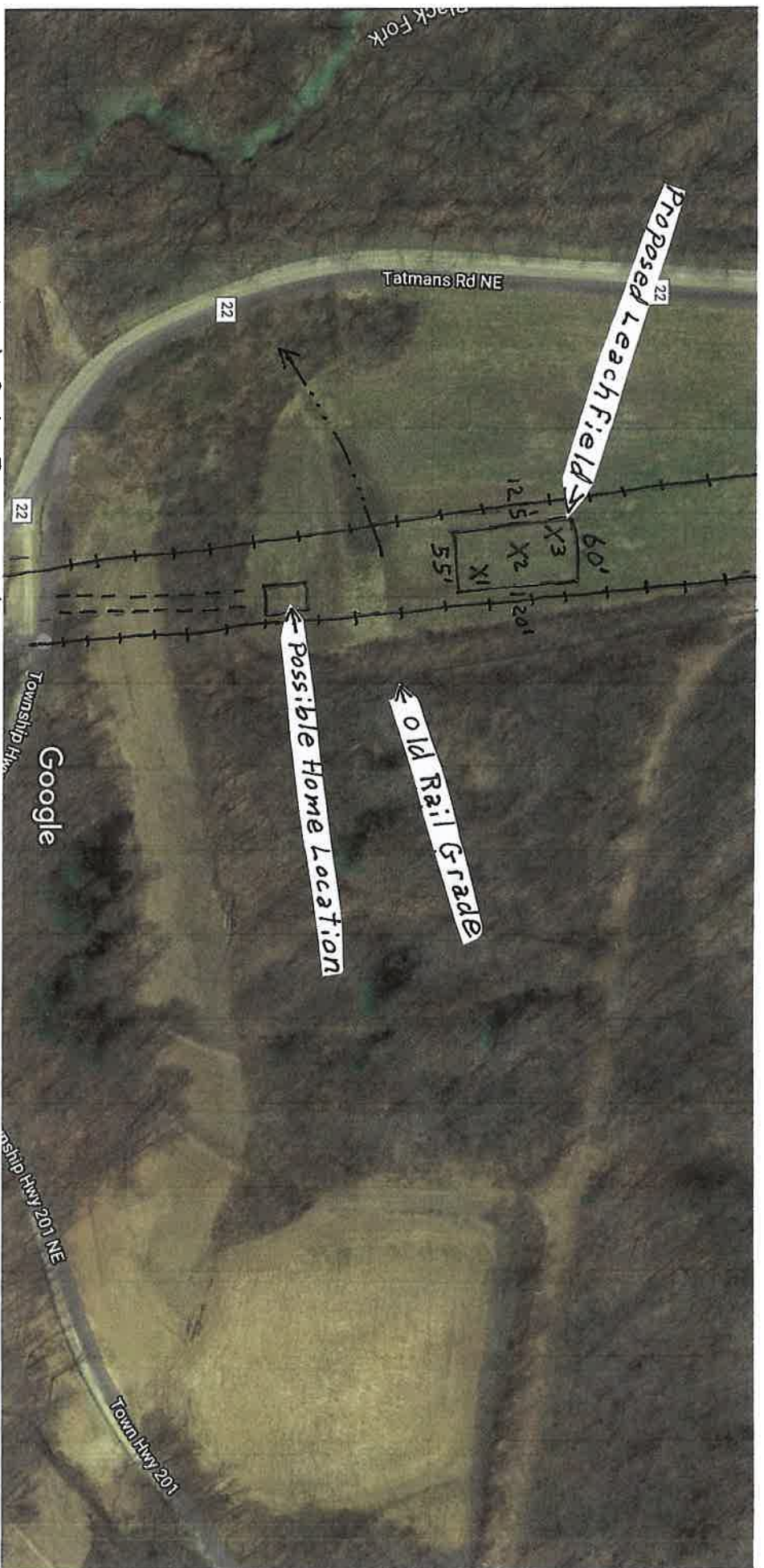
We have shown the location of the proposed septic tank or STS (sewage treatment system) leach field area on the sketch map. We have marked the proposed leach field area with pink wire flags along the approximated boundary corners. The soil description sites are marked with orange wire flags and the number of the soil description is marked on the flag. The approximate dominion, of the proposed leach field area, is marked on the sketch map. The proposed leach field is large and still has room to be extended, if needed. The septic tank or aeration tank will be located next to the new home. The installer or the health department will determine where the filter lines will be located along with the number of lines, line length and square footage needed. The leach field lines would need to be located level on the contour around the slope. These soil descriptions were taken at random to show the soil properties at different areas within the proposed leach field area and the sketch map is not to scale.

Site 2



Sketch Map for Countrytyme Property

Town Hwy 201 & Tatmans Rd NE



X₁, X₂, X₃ - Soil Site Descriptions

←····· Swale in Landscape for surface water Drainage

== == Possible Driveway to Home Location

--- Approximate Property Boundary

These are all Approximate Locations (not to scale)

② We used the 12-24" Depth for H. Linear Loading Rate + used 10% slope
 site and Soil Evaluation for Sewage Treatment and Dispersal

County: Perry Land Use/Vegetation: Grass - Hay Field
 Township / Sec: BEARFIELD Landform: Alluvial Terrace
 Property Address/Location: Between Twp 201 + 203 NE Position on Landform: or High Bottom
 Closest Rt: 22 Percent Slope: 10%
 Applicant Name: Countrywide Realty Shape of Slope: convex
 Address: 345 Cincinnati - Zanesville Rd.
 Phone #: Donovan Kufu - Land Agent
 Lot #: 614-354-5317
 #1 Test Hole #: 1 Date: 4-6-21
 Location/coordinates: N39° 42.625' W 82° 04.345' Evaluator: Carlos Cole
 Method: 1 ft Auger Pick Certification Stamp or Certification #: 24835
 Signature: Carlos Cole
 Phone: 304-372-4809 Home: 304-532-4711 cell

Dug to 30" + Augered Remainder

Soil Profile		Bedding Soil Saturation				Estimating Soil Permeability							
Section	Depth (Inches)	Main Color	Redoximorphic Features		Texture	Bedrock				Infiltration Loading gal/d/s	Hydraulic Linear Loading Rate		
			Concentricity	Duplications		Approx. % Clay	Approx. % Fragment	Grade	Size			Type (inches)	Consistency
Ap ₁	0-7	10YR 5/3 + 4/3	-	-	S:L	15-18	-	2-1	F+m	Gr	Fr-vfr overwash	.6	3.8
Ap ₂	7-11	10YR 4/3	-	-	S:L	14-16	-	2-1	F+m	sbh + gr	Fr	.6	3.8
B _{t1}	11-18	10YR 5/4 + 5/6	-	-	L/S:L	18-22	-	2-1	m	sbh	Fr	.6	4.4
B _{t2}	18-24	10YR 7.5/5 YR 5/6	-	-	L/S:L	21-24	-	2-1	m	sbh	Fr	.6	4.4
B _{t3}	24-28	7.5YR 5/6	-	-	S:L/L	26-29	-	2-1	m	sbh	Fr	.6	3.8
B _c	28-39	10YR 6/4 7.5YR 6/6	10YR 7/2	L	25-27	-	1	m	sbh	Fr	Fr	.4	4.1
C ₁	39-46	10YR 5/4 7.5YR 6/6	10YR 7/1	S:L/C:L	28-31	-	-	-	-	-	Fr		
C ₂ 46 + 60 10YR 5/4 7.5YR 6/6 10YR 7/1 S:L L 26-30 + 2 +													
Limiting Conditions		Depth to (in.)		Descriptive Notes		Remains / Root Penetration							
Reaches Seasonal Water Table		28"											
Aquifer Water Table		-											
Highly Permeable Material		none											
Bedrock		none											
Restrictive Layer		none											

x gravel

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

② We used the 12-24" Depth for H. Linear Loading Rate + used 710% slope
 Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Perry Land Use/Vegetation: Grass - Hay Field
 Township / Secs: BEARFIELD Landform: Alluvial Terrace
 Property Address/Location: Between Twp 201 + 203 N E Position on Landform: or High Bottom
Close to Rt. 22 Percent Slope: 10 - 12%
 Applicant Name: COUNTRYTIME REALTY Shape of Slope: CONVEX
 Address: 3451 Cincinnati - Zanesville Rd.
 Phone #: Donovan Kuhn - Land Agent
 Lot #: 614-354-5317
 #2 Test Hole #: 2 Date: 4-6-21
 Latitude/Longitude: N39° 42.632' W 82° 04.349' Evaluator: Carlos Cole
 Method: 1" Pit ✓ Auger ✓ Pit Signature: Carlos Cole
 Certification Stamp or Certification #: 24835
 Phone: 304-372-4809 Home: 304-532-4711 cell

Dug to 30" + Augered Remainder

Soil Profile				Bedding Soil Saturation				Estimating Soil Permeability						
Horizon	Depth (Inches)	Moisture Color	Rust/iron/oxide	Concentrations	Depth (in.)	Clay	Texture		Structure				Infiltration Loading, gal./sq. ft./hr.	Hydraulic Linear Loading Rate
							Approx. % Clay	Approx. % Fragments	Grade	Size	Type (clay)	Consistency		
A _p	0-11	10YR 4/3	-	-	-	S:L	15-18	-	2-1	F+M	G ⁺ 5/4	Fr-Vfr	.6	3.8
B ₁	11-20	10YR 5/6	-	-	-	L/S:L	24-27	-	2	M	SbH	Fr	.6	4.4
B ₂	20-28	10YR 5/6 + 5/4	-	-	-	L	23-26	-	2-1	M	SbH	Fr	.6	4.4
BC ₁	28-32	10YR 5/4	.5/6 + 6/3	-	-	L/S:L	22-25	C	1-2	M	SbH	Fr	.4	4.1
BC ₂	32-42	10YR 6/4	.5/6	-	-	S:L/S:L	25-29	-	1	M	SbH	Fr	.2	2.9
C ₁	42-47	10YR 5/4	.5/6	-	-	C:L	29-32	-	-	-	-	Fr	-	-
C ₂	47-55	10YR 5/4	.5/6	-	-	L	24-27	2-5 +	-	-	-	Fr	-	-
C ₃	55-60	10YR 5/4	.5/6	-	-	S:L	27-30	-	-	-	-	Fr	-	-
Limiting Conditions		Depth to (in.)		Descriptive Notes		Remineral / Rust / Redox								
Perched Seasonal Water Table		32												
Apparent Water Table		-												
Highly Permeable Material		-												
Bedrock		none												
Resistive Layer		none												

* Fine Gravel C-concretions

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

② We used the 12-24" Depth for H. Linear Loading Rate + used 10% slope
 Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Perry Land Use/Vegetation: Grass - Hay Field
 Township / Sect: BEARFIELD Landform: alluvial terrace
 Property Address/Location: Between Twp 201 + 203 NE Position on Landform: or High Bottom
 Applicant Name: COUNTRYME REALTY Percent Slope: 10
 Address: 3451 Cincinnati - Zanesville Rd. Shape of Slope: convex
 Phone #: Donovan H. H. - Land Agent Date: 4-6-21
 Lot #: 614-354-5317 Evaluator: CARLOS COLE
 #3 Test Hole #: 3 Certification Stamp or Certification #: 24835
 Location/Coordinates: N39°42.640' W 82°04.352' Signature: Carlos Cole
 Method: L Pit ✓ Auger _____ Probe Phone #: 304-372-4809 Home: 304-532-4711 cell

Dug to 30" + Augered Remainder

Soil Profile	Depth (Inches)	Moisture Color (hue, value, chroma)	Bedrocking Soil Saturation		Clay	Texture		Structure		Infiltration Loading Rate	Hydraulic Linear Loading Rate
			Neut. Color (hue, value, chroma)	Redoximorphic Features		Aggron. % Clay	Aggron. % Fragments	Grade	Size	Type (shape)	
Horizon	Depth	Moisture Color	Concentrations	Duplications	Clay	Aggron. % Clay	Aggron. % Fragments	Grade	Size	Type (shape)	Consistency
Ap	0-10	10YR 4/3	-	-	s:L	14-17	-	2	FtM	Gr ⁺ Sb ⁺	Fr
BA	10-14	10YR 5/3 + 5/4	-	-	s:L/L	16-19	-	2-1	M	Sb ⁺	Fr
B _{h1}	14-21	10YR 5/4	10YR 5/6 + 4/4	-	L	20-23	-	1-2	M	Sb ⁺	Fr
B _{h2}	21-26	10YR 5/6	-	-	s:L/s:L	26-28	+	2-1	M	Sb ⁺	Fr
BC ₁	26-34	10YR 5/6	-	10YR 6/2	s:L/s:L	27-30	-	1-2	M	Sb ⁺	Fr
BC ₂	34-42	10YR 5/6 + 5/4	-	10YR 6/2	s:L	32-36	-	1	M	Sb ⁺	Fr-F _i
C ₁	42-47	10YR 5/6 + 5/4	-	10YR 6/1	s:L	30-34	2+	-	-	-	Fr
C ₂	47-54	10YR 5/4	-	10YR 6/1	s:L/s:L	34-40	-	-	-	-	Fr
Limiting Conditions		Depth to (in.)	Descriptive Notes		Remarks / Block Description						
Perched Seasonal Water Table		26"									
Apparent Water Table		-									
Highly Permeable Material		-									
Bedrock		none									
Restrictive Layer		some									

x Fine Gravel

major at 42"