

Soil Survey for Onsite Septic Systems



Project Number: 2310.06
Date of Survey: 10-18-2023
County Health Department: Morgan
Phone: 765-342-6621 Email: bknieriem@morgancounty.in.gov
Purpose of Analysis: New Construction

Client Information:

Name: Joe Riser
Address: 4611 Ospray Dr
City, State: Greenwood, IN 46143

Phone: (317) 402-0933
Email: Jriser@comcast.net

Property Description:

Owner's Name: Joe Riser
Address: E Ridge Rd
City, State: Martinsville, IN 46151
Subdivision:
Bedrooms:

Parcel ID: 55-14-07-295-007.000-012

Acres: 0.442
Water Supply: Public
Lot Number:
Bathrooms:

Note: Bedroom and bathroom numbers are subject to change. Refer to the County Health Department application for up-to-date information.

Legal Description:

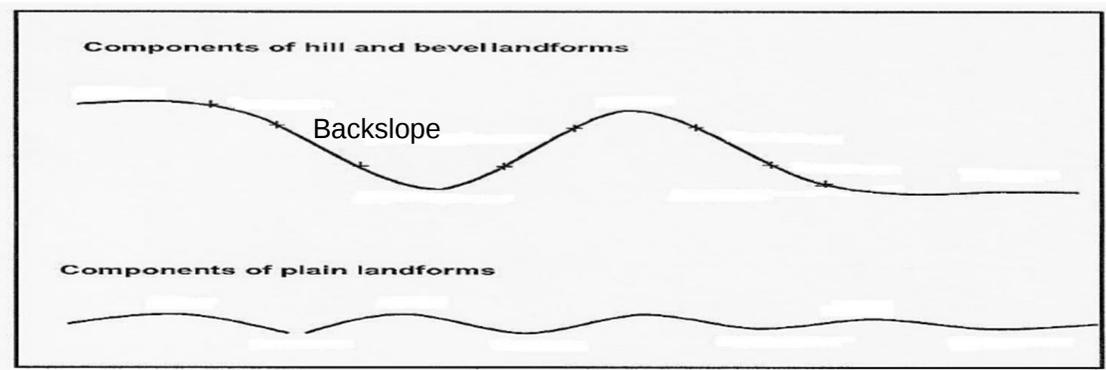
Civil Township: Jackson
Township: 11 North

Quarter: NE 1/4 Section: 7
Range: 2 East

Site Profile:

Parent Material: Residuum Soil Type: Zanesville Within 100-yr Floodplain: No
Land Use: Woods Ground Cover: Trees Flooding/Ponded Water: No

Relative Position of Soil Borings:



- Site Comments:** The property is being subdivided into additional lots.
 The building site is located on a hilltop. A walkout basement is planned.
 A water well is present on the site. A ditch exists on the property.

Additional Comments:

Soil Scientist(s):

Greg Orr, IRSS #147



Soil Pros Plus

Boring #1

GPS Coordinates: 39.40680 °N -86.34629 °W

Type of Boring: 3.25" Hand Auger

Boring Profile:

Landform: Backslope Slope Shape: Convex Slope Gradient (%): 10-12 Downward Slope Direction: North

Wetness Characteristics:

Depth to Redox (inches): 27 Moist (inches): Wet(inches): Drainage: Somewhat Poorly Drained Permeability: Moderately Slow

Depth to Limiting Layers (inches):

Surface Compaction: Tillage Pan: Fragipan: Massive/Firm: Bedrock: 27
 Gravel/coarse sand: Potential High Shrink/Swell Clay: Dense Glacial Till: Carbonate Layer:

- Soil Notes:**
- A fragipan layer was not found in the subsoil. A fragipan layer exists in the subsoil.
 - Redox depletions were not found in the subsoil. Redox depletions exist in the subsoil.
 - Subsurface drainage is suggested. A natural drainage outlet may be available on the site.

Other Soil Notes:

Soil Horizon	Soil Depth (in)	USDA Texture	Color						Structure			Consistency	Effervescent	Coarse Fragments		Percent Clay	Roots
			Matrix	Redox Depletions	Redox Concentrations	Secondary Features			Grade	Size	Shape			Type	Size		
						Type	Color	%									
A	0 - 4	Silt Loam	10YR 4/3						1	F	GR	VFR	No				Present
Bt1	4 - 14	Silt Loam	10YR 5/8						1	F	GR	VFR	No				Present
Bt2	14 - 27	Silt Loam	10YR 5/8	10YR 7/2					1	M	SBK	FR	No				Present
R	27 -																
	-																

Note: This report describes the soil conditions at the site on the date of the soil analysis. It does not set system specifications, assure that a system can be designed for this site, nor imply that a system will work. Soil Pros Plus is describing existing conditions and assumes no liability for the success or failure of future absorption fields constructed on the site.



Soil Pros Plus

Boring #2

GPS Coordinates: 39.40686 °N -87.34619 °W

Type of Boring: 3.25" Hand Auger

Boring Profile:

Landform: Backslope Slope Shape: Convex Slope Gradient (%): 10-12 Downward Slope Direction: North

Wetness Characteristics:

Depth to Redox (inches): 15 Moist (inches): Wet(inches): Drainage: Somewhat Poorly Drained Permeability: Moderately Slow

Depth to Limiting Layers (inches):

Surface Compaction: Tillage Pan: Fragipan: Massive/Firm: Bedrock: 29
 Gravel/coarse sand: Potential High Shrink/Swell Clay: Dense Glacial Till: Carbonate Layer:

- Soil Notes:**
- A fragipan layer was not found in the subsoil. A fragipan layer exists in the subsoil.
 - Redox depletions were not found in the subsoil. Redox depletions exist in the subsoil.
 - Subsurface drainage is suggested. A natural drainage outlet may be available on the site.

Other Soil Notes:

Soil Horizon	Soil Depth (in)	USDA Texture	Color						Structure			Consistency	Effervescent	Coarse Fragments		Percent Clay	Roots
			Matrix	Redox Depletions	Redox Concentrations	Secondary Features			Grade	Size	Shape			Type	Size		
						Type	Color	%									
-	-																
-	-						B-2 showed similar characteristics as B-1.										
-	-																
-	-																
-	-																

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Soil Pros Plus

Boring #3

GPS Coordinates: 39.40679 °N -86.34613 °W

Type of Boring: 3.25" Hand Auger

Boring Profile:

Landform: Backslope Slope Shape: Convex Slope Gradient (%): 10-12 Downward Slope Direction: North

Wetness Characteristics:

Depth to Redox (inches): 14 Moist (inches): Wet(inches): Drainage: Somewhat Poorly Drained Permeability: Moderately Slow

Depth to Limiting Layers (inches):

Surface Compaction: Tillage Pan: Fragipan: Massive/Firm: Bedrock: 26
Gravel/coarse sand: Potential High Shrink/Swell Clay: Dense Glacial Till: Carbonate Layer:

- Soil Notes:**
- A fragipan layer was not found in the subsoil. A fragipan layer exists in the subsoil.
 - Redox depletions were not found in the subsoil. Redox depletions exist in the subsoil.
 - Subsurface drainage is suggested. A natural drainage outlet may be available on the site.

Other Soil Notes:

Soil Horizon	Soil Depth (in)	USDA Texture	Color						Structure			Consistency	Effervescent	Coarse Fragments		Percent Clay	Roots
			Matrix	Redox Depletions	Redox Concentrations	Secondary Features			Grade	Size	Shape			Type	Size		
						Type	Color	%									
-	-																
-	-						B-3 showed similar characteristics as B-1.										
-	-																
-	-																
-	-																

Note: This report describes the soil conditions at the site on the date of the soil analysis. It does not set system specifications, assure that a system can be designed for this site, nor imply that a system will work. Soil Pros Plus is describing existing conditions and assumes no liability for the success or failure of future absorption fields constructed on the site.



Abbreviations

Soil Horizons

Modifiers:

a - Highly decomposed organic material
b - Buried genetic horizon
c - Concretions or nodules
d - Densic layer; physical root restriction
e - Moderately decomposed organic material
g - strong gleying (gray color)
h - Illuvial accumulation of organic matter
i - Slightly decomposed organic material
k - Accumulation of carbonates
m - Cementation or induration
n - Accumulation of Sodium
o - Residual accumulation of sesquioxides
p - Tillage or other disturbance
q - Accumulation of silica
r - Weathered or soft bedrock
s - Illuvial accumulation of sesquioxides
ss - Slickensides
t - Accumulation of silicate clay
v - Plinthite
w - Weak color or structure development
x - Fragipan characteristics

USDA Soil Texture:

S - Sand
LS - Loamy Sand
SL - Sandy Loam
SCL - Sandy Clay Loam
SC - Sandy Clay
L - Loam
CL - Clay Loam
SiC - Silty Clay
SiL - Silt Loam
SiCL - Silty Clay Loam
C - Clay

Structure, Grade:

0 - Structureless
1 - Weak
2 - Moderate
3 - Strong

Structure, Size:

VF - Very Fine
F - Fine
M - Medium
CO - Coarse
VC - Very Coarse
EC - Extremely Coarse
SL - Structureless

Structure, Shape:

GR - Granular
PL - Platy
PR - Prismatic
COL - Columnar
ABK - Angular Blocky
SBK - Subangular Blocky
SG - Single Grain
M - Massive

Moist Consistence:

LO - Loose
VFR - Very Friable
FR - Friable
FR - Firm
VFI - Very Firm
EF - Extremely Firm

Coarse Fragment

Type:

S - Sand
G - Gravel
C - Cobbles
ST - Stones
B - Boulders

Coarse Fragment Size:

FS - Fine Sand
MS - Medium Sand
CS - Coarse Sand
VCS - Very Coarse Sand
SG - Small Gravel
MG - Medium Gravel
LG - Large Gravel

Roots:

VF - Very Few
F - Few
C - Common
M - Many



SITE SKETCH
 E Ridge Rd
 Martinsville, IN 46151

Project Number
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 Project Manager
 Greg Orr, IRSS
 Date
 10-18-2023

