

**CONSERVATION SCIENCE, LLC**  
7942 HARTMAN ROAD, WADSWORTH, OH 44281  
(330) 573-7811 \* ConSci7942@gmail.com

**Soil Evaluation Report**

Invoice: 2024-4504

January 8, 2024

Mrs. Laura Montini  
8795 Glenarden Circle NW  
Massillon, OH 44646

RE: Planned New Dwelling adjacent to 4841 Crystal Lake Ave. NW  
PPN 1601637 (Selected Area)  
Jackson Twp., Stark County, Ohio

Dear Mrs. Montini:

Enclosed is a copy of soil descriptions for logged profile #1 & 2, and corresponding site map based on the rules established in OAC 3701-29-07, standards described in *Field Book for Describing and Sampling Soils* (USDA/NRCS – V. 2.0 & 3.0.), and ODH instructions revised 9/2007.

In keeping with the above referenced ODH instructions, in cases where soil variability is observed within a soil component area(s), the range of all applicable limiting factors are represented within this report (9/2007, Page 2, *Soil Description* section).

Thanks again for the opportunity to work with you. If you have any questions or comments regarding these findings, please feel free to contact me.

Sincere regards,



for Conservation Science, LLC  
Soil Physicist & Soil Morphologist  
MS Soil Physics, CPSS #28033



Certified Professional  
Soil Scientist

Copy: Alyssa Sulzener, EHST – Stark County Health Department  
Josh Collins – Collins Excavating and Construction LLC

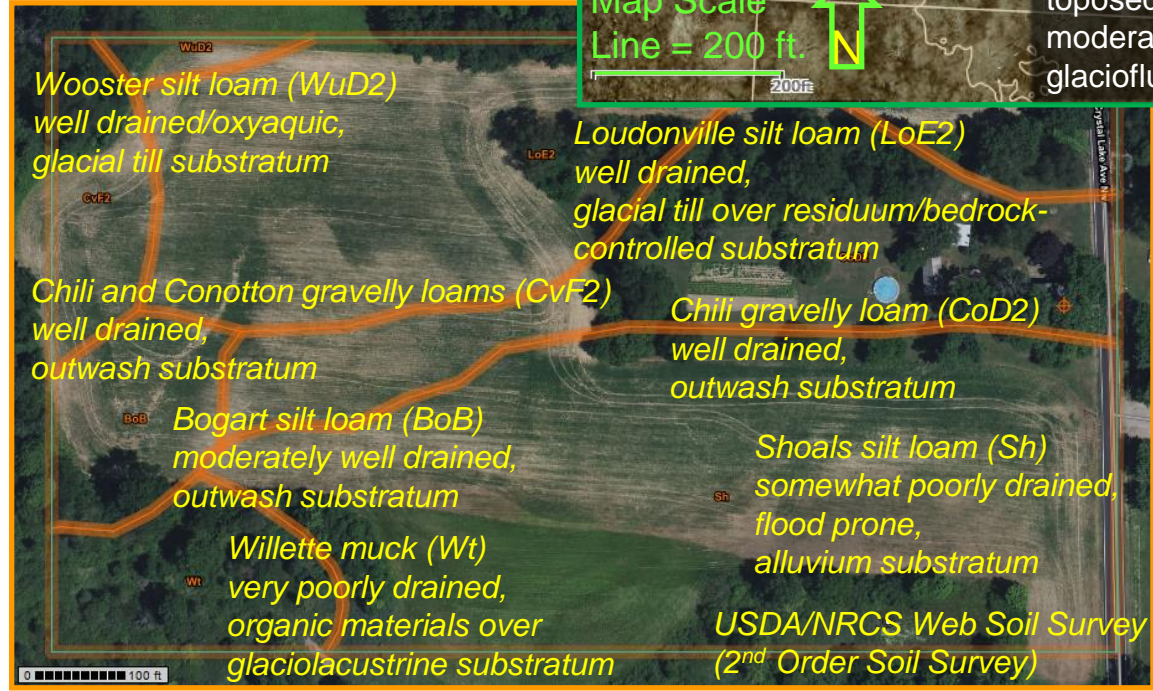
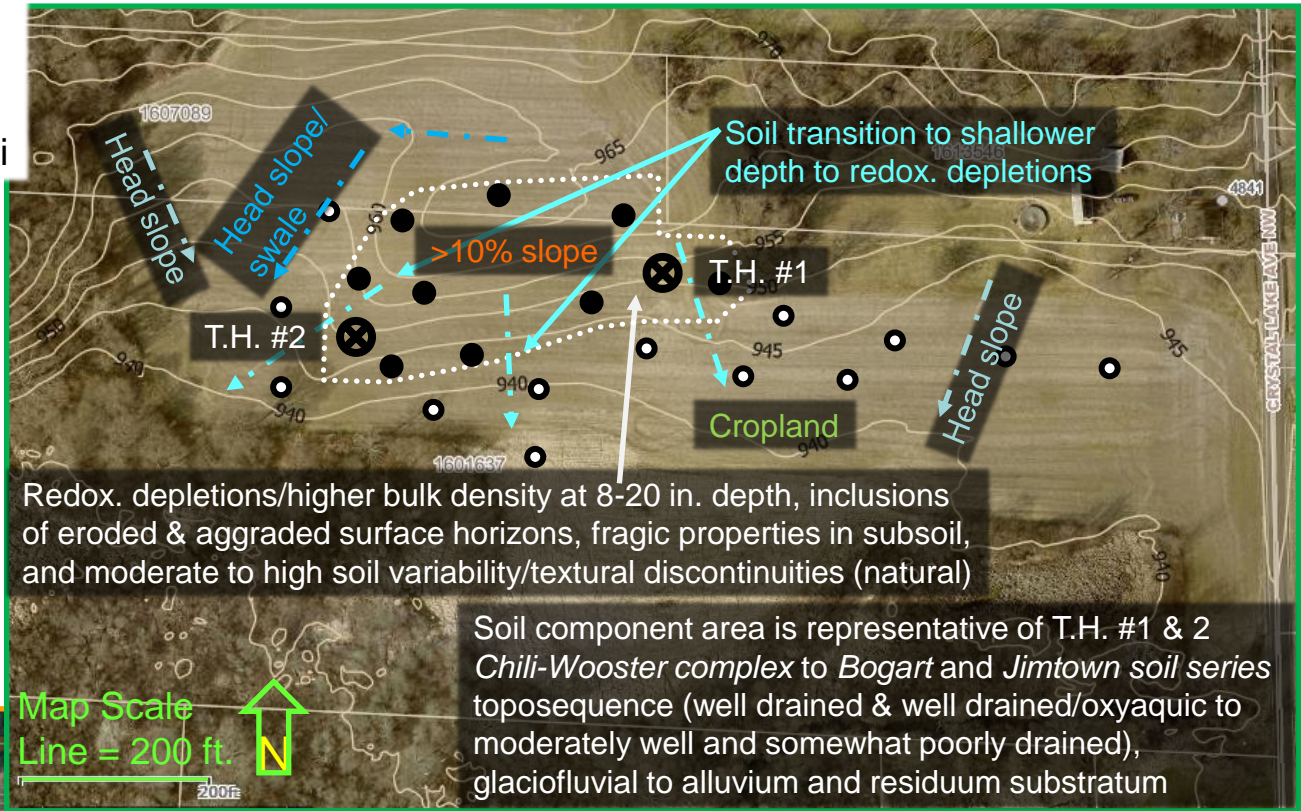
File: 2024-4504

~4841 Crystal Lake Ave. NW  
 (New Dwelling/Selected Area)  
 PPN 1601637  
 Applicant: Laura & Micheal Montini

Logged Soil Descriptions: ☒

Soil Evaluation Locations  
 (≥ 8 in. to redox. depletions/  
 higher bulk density): ●



Soil Evaluation Locations  
 (< 8 in. to redox. depletions/  
 higher bulk density): ○



MS Soil Physics, CPSS #28033



## Soil Evaluation for Sewage Treatment and Dispersal



<b>County:</b> Stark	<b>Mapped Soil Series:</b> Loudonville/Chili/Wooster/Bogart/Shoals/Willette	
<b>Township/Sec.:</b> Jackson	<b>Land Use/Vegetation:</b> Cropland	
<b>Property Address/Location:</b> ~4841 Crystal Lake Ave. NW	<b>Landform:</b> Upland	
<b>Applicant:</b> Laura & Michael Montini	<b>Position on Landform:</b> Backslope	
<b>Address:</b> 8795 Glenarden Cir. NW, Massillon, OH	<b>Percent Slope:</b> 10-15	
<b>Phone:</b> 330-607-1686	<b>Slope Shape:</b> Linear linear	
<b>Email:</b> laura.jean.814@gmail.com	<b>Date of evaluation:</b> 1/5/2024	
<b>Lot #:</b> NA PPN 1601637	<b>Soil Physicist &amp; Morphologist:</b> <i>Todd Houser, MS Soil Physics, CPSS #28033</i>	
<b>Test Hole #:</b> 1 New Dwelling/Selected Area		
<b>Lat./Long.:</b> 40 <sup>o</sup> , 51', 05"/81 <sup>o</sup> , 32', 12"		
<b>Method:</b> Probe, auger & test hole		

Soil Profile		Estimating Soil Saturation (Munsell Color)				Estimating Soil Permeability							Other Soil Features
Horizon	Depth (inches)	Matrix	Redoximorphic Features			Texture			Structure		Consistence		
			Conc.	Deplet.	Quantity/size	Class	% Clay	% Frags.	Grade	Size	Type		
Ap	0-10	10YR 4/4	NA	NA	NA	Silt loam	12-20	<15	WK (1)	Medium	SBK/GR	Friable	Plow layer Root zone
BE	10-14	2.5Y 5/4	NA	NA	NA	Silt loam	12-20	15-35	WK (1)	Medium	SBK	Friable	NA
Bt	14-20	2.5Y 5/3	10YR 5/8	2.5Y 6/1	Medium, common	Silt loam	20-27	15-35	MOD (2)	Medium	SBK	Friable	Clay skins Iron depletions
BCg	20-26	2.5Y 5/2	NA	2.5Y 5/1	Coarse, common	Silt loam	12-20	15-35	WK (1)	Very coarse	SBK	Friable	Reduced matrix
C	26-49	2.5Y 5/3	NA	2.5Y 5/1	Coarse, few	Silt loam	12-20	15-35	STRLS (0)	NA	M	Friable-Firm	Glaciofluvial

Limiting Conditions	Depth to (inches)	Destructive Notes	Remarks/Risk Factors:
Seasonal High Water Table	14	Redox. depletions (vadose zone)	Internal drainage of test pit profile observed is representative of Bogart-Jimtown intergrade (moderately well to somewhat poorly drained)... glaciofluvial substratum.
Apparent Water Table	NA	NA	
Highly Permeable Material	NA	NA	
Bedrock	>60	Lithic contact (soil interpretation)	
Restrictive Layer	NA	NA	It is recommended that an infiltration distance of up to 14 inches (>10% slope)* be used to estimate hydraulic linear loading rate (~3.5 gal da <sup>-1</sup> ft <sup>-1</sup> )*.
Compacted Layer(s)	NA	NA	
Infiltration Loading Rate (gal da <sup>-1</sup> ft <sup>-2</sup> )*	Horizon	Notes	
>30 mg L <sup>-1</sup> (BOD <sub>5</sub> )	<30 mg L <sup>-1</sup> (BOD <sub>5</sub> )		
0.4	0.6	Ap, BE	Soil structure grade 1

\*E. Jerry Tyler, 2000

## Soil Evaluation for Sewage Treatment and Dispersal

<b>County:</b> Stark	<b>Mapped Soil Series:</b> Loudonville/Chili/Wooster/Bogart/Shoals/Willette	
<b>Township/Sec.:</b> Jackson	<b>Land Use/Vegetation:</b> Cropland	
<b>Property Address/Location:</b> ~4841 Crystal Lake Ave. NW	<b>Landform:</b> Upland	
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<b>Address:</b> 8795 Glenarden Cir. NW, Massillon, OH	<b>Percent Slope:</b> 10-15	
<b>Phone:</b> 330-607-1686	<b>Slope Shape:</b> Linear linear	
<b>Email:</b> laura.jean.814@gmail.com	<b>Date of evaluation:</b> 1/5/2024	
<b>Lot #:</b> NA PPN 1601637	<b>Soil Physicist &amp; Morphologist:</b> <i>Todd Houser, MS Soil Physics, CPSS #28033</i>	
<b>Test Hole #:</b> 2 New Dwelling/Selected Area		
<b>Lat./Long.:</b> 40 <sup>o</sup> , 51', 05"/81 <sup>o</sup> , 32', 15"		
<b>Method:</b> Probe, auger & test hole		

Soil Profile		Estimating Soil Saturation (Munsell Color)				Estimating Soil Permeability							Other Soil Features
Horizon	Depth (inches)	Matrix	Redoximorphic Features			Texture			Structure			Consistence	
			Conc.	Deplet.	Quantity/size	Class	% Clay	% Frags.	Grade	Size	Type		
Ap	0-9	10YR 4/4	NA	NA	NA	Silt loam	12-20	<15	WK (1)	Medium	SBK/GR	Friable	Plow layer Root zone
BE	9-12	10YR 5/5	NA	NA	NA	Silt loam	12-20	15-35	WK (1)	Medium	SBK	Friable	NA
Bt	12-18	2.5Y 5/5	NA	NA	NA	Silt loam	20-27	15-35	MOD (2)	Medium	SBK	Friable	Clay skins
BC	18-25	2.5Y 5/4	10YR 5/6	10YR 6/2	Coarse, few	Silt loam	12-20	15-35	WK (1)	Very coarse	SBK	Friable	Iron depletions
C	25-40	2.5Y 5/4	NA	10YR 6/1	Medium, few	Loam	12-20	15-35	STRLS (0)	NA	M	Friable-Firm	Glaciofluvial

Limiting Conditions	Depth to (inches)	Destructive Notes	Remarks/Risk Factors:
Seasonal High Water Table	18	Redox. depletions (vadose zone)	Internal drainage of test pit profile observed is more representative of Chili-Bogart intergrade (well to moderately well drained)...glaciofluvial substratum. It is recommended that an infiltration distance of up to 18 inches (>10% slope)* be used to estimate hydraulic linear loading rate (~3.5 gal da <sup>-1</sup> ft <sup>-1</sup> )*.
Apparent Water Table	NA	NA	
Highly Permeable Material	NA	NA	
Bedrock	>60	Lithic contact (soil interpretation)	
Restrictive Layer	NA	NA	
Compacted Layer(s)	NA	NA	

Infiltration Loading Rate (gal da <sup>-1</sup> ft <sup>-2</sup> )*		Horizon	Notes
>30 mg L <sup>-1</sup> (BOD <sub>5</sub> )	<30 mg L <sup>-1</sup> (BOD <sub>5</sub> )		
0.4	0.6	Ap, BE	Soil structure grade 1
0.6	0.8	Bt	Soil structure grade 2

\*E. Jerry Tyler, 2000