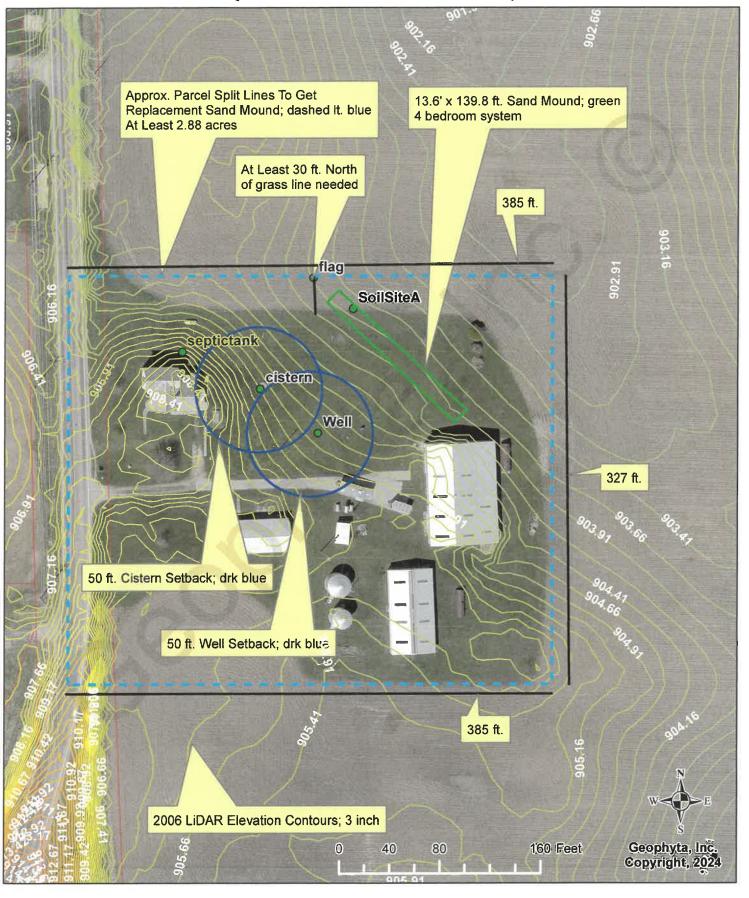
HSTS Soil/Site Evaluation - 2563 Section Line Rd 30 S (Parcels 360010010150000)



Site and Soil Evaluation for Sewage Treatment and Dispersal

	/CPSS			100	Certified Professional Soil Scientist	19395				Jasha Wanghit						Other Soil Features		compaction						
- 22					Ű	:# uc		_	# 4	Jahra						Consistence	firm	firm	firm				, HLLR: SiL	gal/day/ft ²
HUR- 2A						Certification #:			`		Signature:					Type (shape)	sbk	sbk	sbk					ig/L) = 0.8
Control #: 24- HUR-											Sig		ermeability		Structure	Size	med	med	coarse			Remarks / Risk Factors: Values For Sand Mound	Tyler Table: Ap horizon (0.0 - 10.0) ILR: SiL	0.6 gal/day/ft ² , ILR(<30 mg/L) = 0.8
ర											64		Estimating Soil Permeability			Grade	2-mod	1-weak	1-weak			rs: Values For	orizon (0.0	.6 gal/day/f
ow Crop	Till Plain	e		Linear	gton SiL		24	Wright	ta, Inc.	R. 254	Vickery, OH 43464	0220	Estim			Approx % Fragments	0	0	10			/ Risk Facto	ole: Ap ho	
Agric R	Glacial	Hillslop	1-2	Linear-	Benning		Date: 30-Jan-24	Nathan	Geophyta, Inc.	2685 C.R. 254	Vickery, OH	117-714			Texture	Approx. % Clay	20	30	35			Remarks	Tyler Tal	ILR(>30mg/L) =
Vegetation:	Landform: Glacial Till Plain	Position on Landform: Hillslope	Percent Slope: 1-2	Shape of Slope: Linear-Linear	Soil Type:		Date:	Evaluator: Nathan Wright			Dhone#-	I IIOIICH.]	Class	SiL	SiCL	CL					
Land Use / Vegetation: Agric Row Crop		Position or	Pe	Sha	Approximate Soil Type: Bennington SiL						4" dia.		ration	e, chroma)	ic Features	Depletions	none	matrix	matrix			Descriptive Notes	: Btg, Cg	
		South		Associates	À					3.515"N	Auger X Probe; 1 1/4" dia.		Estimating Soil Saturation	Munsell Color (hue, value, chroma)	Redoximorphic Features	Concentrations	none	10%10YR 4/6	30%10YR 4/6				Restricted in: Btg, Cg	
		ion Line Rd 30	OH 44890	son - Bonnigson	McPherson Hw	H 43410	024			711"W 41°4'2;	Pit Auger		Estim	Munsell (Color	10YR 3/2	10YR 4/1 1	10YR 5/1 3			Depth to (in.)	10.0	>48
County: Huron	Township / Sec.: Norwich	Property Address: 2568 Section Line Rd 30 South	OR Location: Willard, OH 44890	Applicant Name: Ken Bonnigson - Bonnigson Associates	Address: 1570 W. McPherson Hwy	Clyde, OH 43410	Phone #: 419-355-6024	Lot #:	Test Hole #: A	Latitude/Longitude: 82°46'55.711"W 41°4'23.515"N	Method: F		Soil Profile		Ā	(inches)	0.0-10.0	10.0-24.0	24.0-48.0			Limiting Conditions	1 Water Table	Table
ŭ	Township /	Property Ad	OR Loc	Applicant 1	Ad		Ph		Test H	Latitude/Long	W		Soil F			Horizon	Ap	Btg	Cg			Limiting (Perched Seasonal Water Table	Apparent Water Table

Note: The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

By Tile Probe

Highly Permeable Material

Bedrock

Other Restrictive Layer

4 bedroom min. required absorption area = 800 sq.ft. 5xW Soil Absorption Box: 23'W x 178'L

HLLR = 2.7 gal/day/ft

Mound Calcu Owner: 2568 Section Line Rd 30 South			Design		Personal Property of the Personal Property of			
Residence w/4 bedroom	Min. Design Actual Design Comment							
	480	Actual Design		Com	ment			
Water Use (gal/day)(DFR)	460							
Limiting Condition	PSWT							
Depth To Limiting Condition (inches)	10.0							
Total Infiltration Depth (Soil+Sand) (in.)	10.0							
Sand Depth To Add (in.)	0.0							
Most Limiting Soil Texture	SiL							
Site Slope % (Perpendicular To Contour)	0.0							
Tyler Table Values								
Soil Infiltration Loading Rate (gal/day/sq. ft)(BLR)	0.6							
Soil Hydraulic Linear Loading Rate (gal/day/ft)(HLLR)	2.7							
Sand Loading Rate (gal/day/sg. ft)(SLLR)	1.0							
Required Soil Absorption Area (sq. ft.) DFR/BLR	800.0							
Mound Design Requirements								
Sand Absorption Area Width (ft)(A)	2.7	3.70	to use infiltra	tor domes	, 2 x 22 in. W			
Sand Absorption Area Length (ft)(B)	177.8	129.8			; 27% Length Reduct.			
Sand Distribution Area for Laterals(sq. ft.)	480.0	480.3			,			
Min. Mound Basal Soil Width (ft)(I+A+J)(HLLR/BLR)	4.5	10.42	Min. needed	for 3:1 sar	nd edge slope			
Upslope Sand Depth (in)(D)	0.0							
Downslope Sand Depth (in)(E)	0.0							
Aggregate Depth (in)(F)	8.0		LP Dome Ht.					
Edge Topsoil Cover (in)(G)	6.0							
Peak Topsoil Cover (in)(H)	12.0							
Mound Downslope Width at 3:1 (in)(l)	60.0							
Mound Upslope Width at 3:1 (in)(J)	60.0							
Mound Endslope Width at 3:1 (in)(K)	60.0							
Mound Overall Length (ft)(L)	187.8	139.8	to use infiltra	tor domes	4 ft. L			
Mound Overall Width (ft)(W)	10.0	13.6	I					
Mound Overall Height (ft)	1.7	2.2						

Landforms	
Upland*	
Теггасе	
Flood Plain	
Lake Pain	
Beach Ridge	
*Includes glacial till	
plain and end moraine	е

Position on	Landform
Depression	
Flat	
Knoll	
Crest	
Hillslope	
Footslone	

Shape of Slo	pe
Convex	
Concave	
Linear	
Complex	Т

	Master Horizons
0	Predominantly organic matter (litter & humus)
A	Mineral, organic matter (humus) accumulation, loss of Fe, Al, clay
Е	Mineral, loss of Si, Fe, Al, clay, organic matter
В	Subsurface accumulation of clay, Fe, Al, Si, humus; sesquioxides; loss of CaCo ₃ ; subsurface soil structure
С	Little or no pedogenic alteration, unconsoilidated earthy material, soft bedrock
R	Hard bedrock

	Horizon Nomenclature						
	Horizon Suffixes						
a	Highly decomposed organic matter						
b	Buried genetic horizon						
d	Densic layer (physically root restrictive)						
e	Moderately decomposed organic matter						
g	Strong gley						
i	Slightly decomposed organic matter						
р	Plow layer or artificial disturbance						
Г	Weathered or soft bedrock						
t	Illuvial accumulation of silicate clay						
w	Weak color or structure within B						
x	Fragipan characteristics						

Numerical Prefixes: Used to denot
lithologic discontinuities.

Horizon Modifiers

Numerical Suffixes: Used to denote subdivisions within a master horizon.

	Soil	Texture	
Texture Class Abbreviat	ions	Textural Class Modifiers	
Course Sand	cos	Gravelly	GR
Sand	s	Fine Gravelly	FGR
Fine Sand	fs	Medium Gravelly	MGF
Very Fine Sand	vfs	Coarse Gravelly	CGR
Loamy Coarse Sand	lcos	Very Gravelly	VGR
Loamy Sand	ls	Extremely Gravelly	XGR
Loamy Fine Sand	lfs	Cobbly	СВ
Loamy Very Fine Sand	lvfs	Very Cobbly	VCE
Coarse Sandy Loam	cosl	Extremely Cobbly	XCE
Sandy Loam	sl	Stony	ST
Fine Sandy Loam	fsl	Very Stony	VST
Very Fine Sandy Loam	vfsl	Extremely Stony	XST
Loam	1	Bouldery	BY
Silt Loam	sil	Very Bouldery	VBY
Silt	si	Extremely Bouldery	XBY
Sandy Clay Loam	scl	Channery	CN
Clay Loam	cl	Very Channery	VCN
Silty Clay Loam	sicl	Extremely Channery	XCN
Sandy Clay	sc	Flaggy	FL
Silty Clay	sic	Very Flaggy	VFL
Clay	С	Extremely Flaggy	XFL
*Estimate approximate of	lay perc		

o iste of	13 5	Soil St	ructor	re			
Grade		Size		Type (Shape)			
Structureless	0	Very Fine	vf	Granular	gr		
Weak	1	Fine	f	Angular Blocky	abk		
Moderate	2	Medium	m	Subangular Blocky	sbk		
Strong	3	Coarse	со	Platy	pl		
		Very Coarse	vc	Prismatic	pr		
		Extr. Coarse	ec	Columnar	cpr		
		Very Thin*	vn	Single Grain	sg		
		Thin*	tn	Massive	m		
		Thick*	tk	Cloddy	CDY		
		Very Thick*	vk				

* The sizes Very Thin, Thin, Thick, and Very Thick, are used when describing platy structure only. Substitute thin for fine, and thick for coarse when describing platy structure.

Moist Consistence					
Loose	1				
Very Friable	vfr				
Friable	fr				
Firm	fi				
Very Firm	vfi				
Extremely Firm	efi				

For a more detailed explanation on describing and sampling soils, please refer to the "Field Book for Describing and Sampling Soils" Schoeneberger, P.J., Wysocki, D.A., Benham, E.C., and Broderson, W.D. (editors) 2002. Field book for describing and sampling soils, version 2.0. Natural Resources Conservation Service, USDA, National Soil Survey Center, Lincoln, NE.

Site/Soil Evaluation For Home Septic Treatment System (HSTS) Suitability By Geophyta, Inc.

This site/soil evaluation, prepared by Geophyta Inc., is for information purposes to be used by a landowner, septic system designer, and your local health department. Geophyta provides technical information to help identify limits for an HSTS on a parcel to be used as a home site. Geophyta serves as a technical advisor for soils/site information.

Geophyta relies on accurate information provided by the landowner and technical data collected by Geophyta. This information includes local soil limits and topography, plus existing and future locations of your home, number of bedrooms, out buildings, driveways, drinking water wells, ponds, existing septic systems, and property lines. Geophyta Inc. relies on this information to make accurate recommendations.

This is not a property boundary survey.

This is not a septic system design. You must use a septic system designer to prepare a complete design to be submitted to your local health department for approval.

This report does not guarantee buildability of a lot or approval of any septic system design. Your county health department is the final authority on approval of any septic system design and most likely will not make a buildability decision without a full design package.

Sincerely,

Nathan Wright Geophyta, Inc.

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