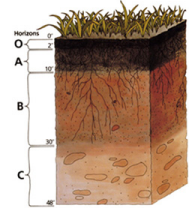


Soil and Environmental
Consulting Services, Inc.



Thursday, November 09, 2023

Bruner Land Company
brunerland@hotmail.com

Re: Soil investigation for on-site septic disposal for the parcel split east of 6421 Troy Road, Marlboro Township, Delaware County, Ohio

Enclosed you will find the requested detailed soil descriptions for the parcel split east of 6421 Troy Road, Marlboro Township, Delaware County, Ohio

The soils of the selected sites were mapped and described on the enclosed sheets for your records. The locations of the soil borings have been located using GPS and the locations have been delineated on the enclosed map. Copies of this letter, soil boring descriptions, sketch, and system drawing should be submitted to local health department. The health department will make the determination if the soil and site area is suitable for onsite sewage treatment.

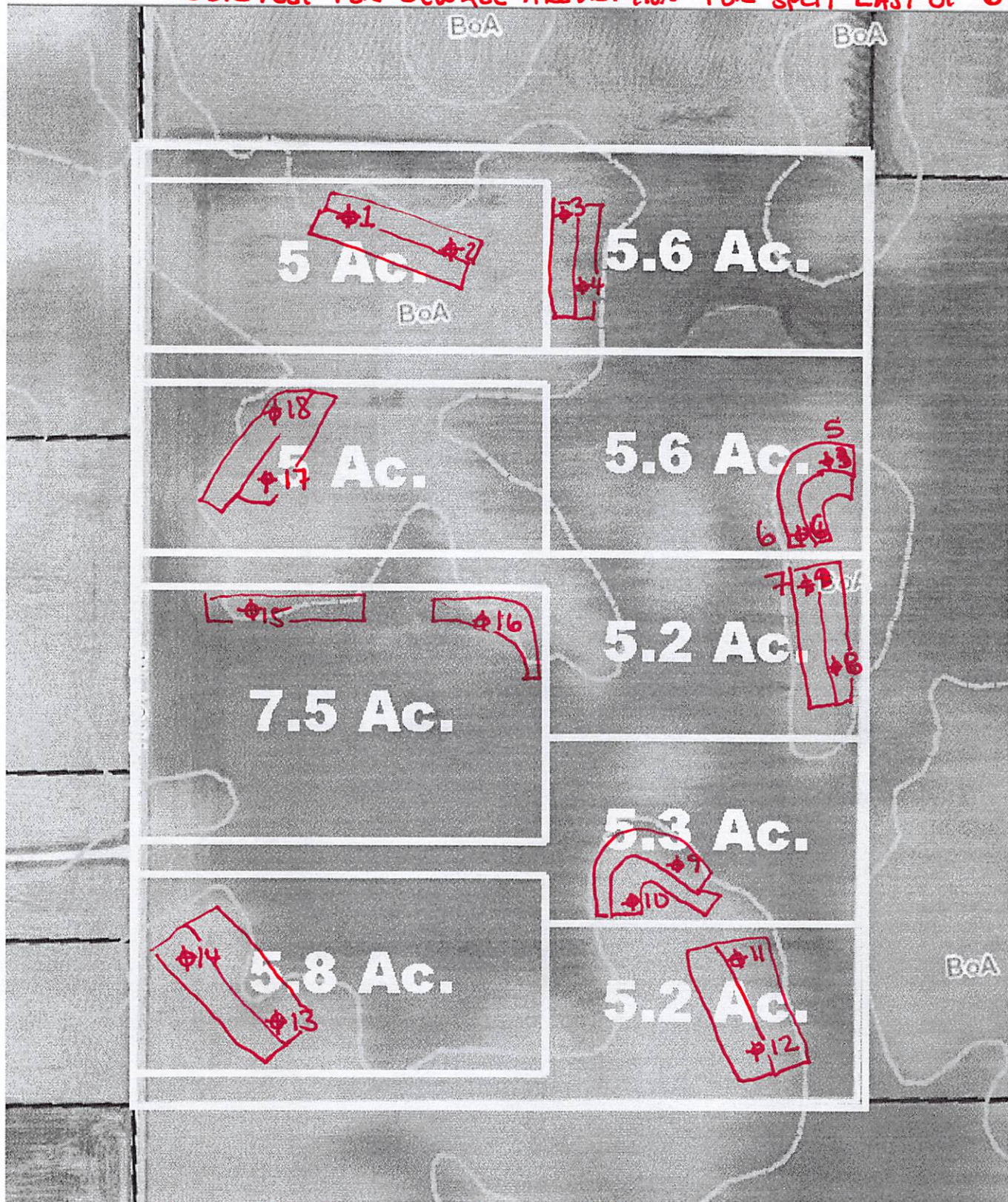
Please protect all areas approved for septic disposal by having the contractor stake and rope off the proposed locations prior to driveway and basement excavation. No soil, building, or waste material should be stored on the proposed absorption areas. Disturbance to the areas may result in compaction and the subsequent failure of the system. Any disturbance to the 504 absorption area voids the results of this analysis.

If you have any questions or want to move forward with the septic design process feel free to contact us.

Steven Miller, CPSS

SOIL TEST FOR SEWAGE ABSORPTION FOR SPLIT EAST OF 6421

Troy
RD



⊕ SOIL TEST SITE FOR SEWAGE TREATMENT



— PRIMARY & SECONDARY ABSORPTION AREA
200' X 25' EACH

Landforms
Upland*
Terrace
Flood Plain
Lake Plain
Beach Ridge
*Includes glacial till plain and end moraine

Position on Landform
Depression
Flat
Knoll
Crest
Hillslope
Footslope

Shape of Slope
Convex
Concave
Linear
Complex

Horizon Nomenclature			
Master Horizons		Horizon Suffixes	Horizon Modifiers
O	Predominantly organic matter (litter & humus)	a Highly decomposed organic matter	Numerical Prefixes: Used to denote lithologic discontinuities.
A	Mineral, organic matter (humus) accumulation, loss of Fe, Al, clay	b Buried genetic horizon	
E	Mineral, loss of Si, Fe, Al, clay, organic matter	d Densic layer (physically root restrictive)	Numerical Suffixes: Used to denote subdivisions within a master horizon.
B	Subsurface accumulation of clay, Fe, Al, Si, humus; sesquioxides; loss of CaCO ₃ ; subsurface soil structure	e Moderately decomposed organic matter	
C	Little or no pedogenic alteration, unconsolidated earthy material, soft bedrock	g Strong gley	
R	Hard bedrock	i Slightly decomposed organic matter	
		p Plow layer or artificial disturbance	
		r Weathered or soft bedrock	
		t Illuvial accumulation of silicate clay	
		w Weak color or structure within B	
		x Fragipan characteristics	

Soil Texture	
Texture Class Abbreviations	Textural Class Modifiers
Course Sand cos	Gravelly GR
Sand s	Fine Gravelly FGR
Fine Sand fs	Medium Gravelly MGR
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 CB
Loamy Very Fine Sand lvfs	Very Cobbly VCB
Coarse Sandy Loam cosl	Extremely Cobbly XCB
Sandy Loam sl	Stony ST
Fine Sandy Loam fsl	Very Stony VST
Very Fine Sandy Loam vfl	Extremely Stony XST
Loam l	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 siel	Extremely Channery XCN
Sandy Clay sc	Flaggy FL
Silty Clay sic	Very Flaggy VFL
Clay c	Extremely Flaggy XFL

*Estimate approximate clay percentage within 5 percent

Soil Structure					
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 co	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	l
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 and Soil Evaluation for Sewage Treatment and Dispersal

County: Delaware
 Township / Sec.: Marlboro
 Property Address/Location: Parcel Split East of 6421 Troy Rd
Delaware
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 1
 Latitude/Longitude: _____
 Method: Pit Auger Tube

Land Use / Vegetation: Corn
 Landform: Till Plan
 Position on Landform: Backslope
 Percent Slope: 1.0%
 Shape of Slope: Linear / Lnear
 Bedrooms or GPD: 4
 Date: Wednesday, November 08, 2023
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 23K119
 Soil Series: _____


 Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10YR 4/3			sil	25	2	1	m	sbk	fr	
Bt1	8 to 22	10YR 5/4		20%10YR 5/2	sicl	32	2	2	m	sbk	fi	
Bt2	22 to 30	10YR 5/4		25%10YR 5/2	sic	40	2	2	m	sbk	fi	
BC	30 to 32	10YR 5/4		30%10YR 5/2	sicl	36	2	1	m	sbk	fi	
Cd	32+	10YR 5/4		25%10YR 5/2	cl	34	5	0		m	vfi	

Limiting Conditions	inches	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	8	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	32	glacial till	

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.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Delaware
 Township / Sec.: Marlboro
 Property Address/Location: Parcel Split East of 6421 Troy Rd
Delaware
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 2
 Latitude/Longitude: _____
 Method: Pit Auger Tube

Land Use / Vegetation: Corn
 Landform: Till Plan
 Position on Landform: Backslope
 Percent Slope: 1.0%
 Shape of Slope: Linear / Lnear
 Bedrooms or GPD: 4
 Date: Wednesday, November 08, 2023
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 23K119
 Soil Series: _____


 Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10YR 4/3			sil	25	2	1	m	sbk	fr	
Bt1	8 to 25	10YR 5/4		15%10YR 5/2	sicl	32	2	2	m	sbk	fi	
Bt2	25 to 34	10YR 5/4		20%10YR 5/1	sicl	37	2	2	m	sbk	fi	
BC	34 to 39	10YR 5/4		25%10YR 5/1	sicl	35	2	1	m	sbk	fi	
Cd	39+	10YR 5/4		20%10YR 6/1	cl	34	5	0		m	vfi	

Limiting Conditions	inches	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	8	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	39	glacial till	

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.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Delaware
 Township / Sec.: Marlboro
 Property Address/Location: Parcel Split East of 6421 Troy Rd
Delaware
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 3
 Latitude/Longitude: _____
 Method: Pit Auger Tube

Land Use / Vegetation: Corn
 Landform: Till Plan
 Position on Landform: Backslope
 Percent Slope: 0.5%
 Shape of Slope: Linear / Lnear
 Bedrooms or GPD: 4
 Date: Wednesday, November 08, 2023
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 23K119
 Soil Series: _____


 Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap1	0 to 6	10YR 4/3			sil	25	2	1	m	sbk	fr	
Ap2	6 to 11	10YR 3/3		5%10yR 4/2	sicl	30	2	2	m	sbk	fi	
Btg	11 to 54	10YR 5/2	25%10YR 5/4		sicl	35	2	2	m	sbk	fi	
BCg	54 to 60	10YR 6/2	30%10yR 5/4		sicl	32	2	1	m	sbk	fi	
Cdg	60+	10YR 5/1	25%10YR 5/4		cl	30	5	0		m	vfi	

Limiting Conditions	inches	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	6	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	60	glacial till	

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.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Delaware
 Township / Sec.: Marlboro
 Property Address/Location: Parcel Split East of 6421 Troy Rd
Delaware
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 4
 Latitude/Longitude: _____
 Method: Pit Auger Tube

Land Use / Vegetation: Corn
 Landform: Till Plan
 Position on Landform: Backslope
 Percent Slope: 0.5%
 Shape of Slope: Linear / Lnear
 Bedrooms or GPD: 4
 Date: Wednesday, November 08, 2023
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 23K119
 Soil Series: _____


 Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap1	0 to 6	10YR 4/3			sil	25	2	1	m	sbk	fr	
Ap2	6 to 14	10YR 3/3		5%10yR 4/2	sic1	32	2	2	m	sbk	fi	
Btg	14 to 58	10YR 5/1	25%10YR 5/4		sic1	35	2	2	m	sbk	fi	
BCg	58+	10YR 6/1	30%10YR 5/4		sic1	34	2	1	m	sbk	fi	

Limiting Conditions	inches	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	6	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	>60	glacial till	

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.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Delaware
 Township / Sec.: Marlboro
 Property Address/Location: Parcel Split East of 6421 Troy Rd
Delaware
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 5
 Latitude/Longitude: _____
 Method: Pit Auger Tube

Land Use / Vegetation: Corn
 Landform: Till Plan
 Position on Landform: Backslope
 Percent Slope: 0.5 to 1.0%
 Shape of Slope: Linear / Lnear
 Bedrooms or GPD: 4
 Date: Wednesday, November 08, 2023
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 23K119
 Soil Series: _____


 Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

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	
Ap1	0 to 6	10YR 4/3			sil	25	2	1	m	sbk	fr	
Ap2	6 to 10	10YR3.2		5%10yR 4/2	sicl	30	2	2	m	sbk	fi	
Btg	10 to 48	10YR 5/2	15%10yR 5/4		sicl	38	2	2	m	sbk	fi	
BCg	48 to 52	10YR 5/2	35%10YR 5/4		sicl	36	2	1	m	sbk	fi	
Cdg	52+	10YR 4/2	25%10YR 5/3		sicl	34	2	0		m	vfi	

Limiting Conditions	inches	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	6	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	52	glacial till	

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.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Delaware
 Township / Sec.: Marlboro
 Property Address/Location: Parcel Split East of 6421 Troy Rd
Delaware
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 6
 Latitude/Longitude: _____
 Method: Pit Auger Tube

Land Use / Vegetation: Corn
 Landform: Till Plan
 Position on Landform: Backslope
 Percent Slope: 0.5 to 1.0%
 Shape of Slope: Linear / Lnear
 Bedrooms or GPD: 4
 Date: Wednesday, November 08, 2023
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 23K119
 Soil Series: _____


 Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap1	0 to 6	10YR 4/3			sil	25	2	1	m	sbk	fr	
Ap2	6 to 9	10YR 3/3		10%10YR4/2	sicl	32	2	2	m	sbk	fi	
Btg	9 to 40	10YR 5/2	20%10YR 5/4		sicl	36	2	2	m	sbk	fi	
BCg	40 to 46	10YR 5/2	30%10YR 5/4		sicl	35	2	1	m	sbk	fi	
Cdg	46+	10YR 4/2	25%10YR 5/3		sicl	32	2	0		m	vfi	

Limiting Conditions	inches	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	6	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	46	glacial till	

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.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Delaware
 Township / Sec.: Marlboro
 Property Address/Location: Parcel Split East of 6421 Troy Rd
Delaware
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 7
 Latitude/Longitude: _____
 Method: Pit Auger Tube

Land Use / Vegetation: Corn
 Landform: Till Plan
 Position on Landform: Backslope
 Percent Slope: 0.5 to 1.0%
 Shape of Slope: Linear / Lnear
 Bedrooms or GPD: 4
 Date: Wednesday, November 08, 2023
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 23K119
 Soil Series: _____


 Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10YR 4/3			sil	25	2	1	m	sbk	fr	
Bt1	8 to 26	10YR 5/4		20%10YR4/2	sicl	35	2	2	m	sbk	fi	
Bt2	26 to 37	10YR 5/4		35%10yR 5/2	sic	40	2	2	m	sbk	fi	
BCg	37 to 42	10YR 5/1	25%10YR 5/4		sicl	36	2	1	m	sbk	fi	
Cdg	42+	10YR 4/2	30%10YR 5/4		sicl	34	2	0		m	vfi	

Limiting Conditions	inches	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	8	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	42	glacial till	

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.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Delaware
 Township / Sec.: Marlboro
 Property Address/Location: Parcel Split East of 6421 Troy Rd
Delaware
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 8
 Latitude/Longitude: _____
 Method: Pit Auger Tube

Land Use / Vegetation: Corn
 Landform: Till Plan
 Position on Landform: Backslope
 Percent Slope: 0.5 to 1.0%
 Shape of Slope: Linear / Lnear
 Bedrooms or GPD: 4
 Date: Wednesday, November 08, 2023
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 23K119
 Soil Series: _____


 Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10YR 4/3			sil	25	2	1	m	sbk	fr	
Bt1	8 to 23	10YR 5/4		30%10yR 5/2	sicl	36	2	2	m	sbk	fi	
Bt2	23 to 40	10YR 5/4		40%10YR 5/2	sic	40	2	2	m	sbk	fi	
BCg	40 to 47	10YR 5/2	30%10yR 5/4		sicl	36	2	1	m	sbk	fi	
Cdg	47+	10YR 6/2	25%10YR 5/4		sicl	33	2	0		m	vfi	

Limiting Conditions	inches	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	8	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	47	glacial till	

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.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Delaware
 Township / Sec.: Marlboro
 Property Address/Location: Parcel Split East of 6421 Troy Rd
Delaware
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 9
 Latitude/Longitude: _____
 Method: Pit Auger Tube

Land Use / Vegetation: Corn
 Landform: Till Plan
 Position on Landform: Backslope
 Percent Slope: 0.5 to 1.0%
 Shape of Slope: Linear / Lnear
 Bedrooms or GPD: 4
 Date: Wednesday, November 08, 2023
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 23K119
 Soil Series: _____


 Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 6	10YR 4/3			sil	25	2	1	m	sbk	fr	
Bt1	6 to 32	10YR 5/4		25%10yR 5/2	sicl	35	2	2	m	sbk	fi	
Bt2	32 to 52	10YR 5/4		30%10YR 5/2	sicl	38	2	2	m	sbk	fi	
BCg	52 to 58	10YR 5/2	25%10RY 5/4		sicl	36	2	1	m	sbk	fi	
Cdg	58+	10YR 4/2	30%10yR 5/4		sicl	34	2	0		m	vfi	

Limiting Conditions	inches	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	6	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	58	glacial till	

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.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Delaware
 Township / Sec.: Marlboro
 Property Address/Location: Parcel Split East of 6421 Troy Rd
Delaware
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 10
 Latitude/Longitude: _____
 Method: Pit Auger Tube

Land Use / Vegetation: Corn
 Landform: Till Plan
 Position on Landform: Backslope
 Percent Slope: 0.5 to 1.0%
 Shape of Slope: Linear / Lnear
 Bedrooms or GPD: 4
 Date: Wednesday, November 08, 2023
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 23K119
 Soil Series: _____


 Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10YR 4/3			sil	25	2	1	m	sbk	fr	
Bt1	8 to 25	10YR 5/4		30%10yR 5/2	sicl	34	2	2	m	sbk	fi	
Bt2	25 to 38	10YR 5/4		35%10YR 5/2	sic	40	2	2	m	sbk	fi	
BCg	38 to 42	10YR 5/2	30%10YR 5/4		sicl	35	2	1	m	sbk	fi	
Cdg	42+	10YR 4/2	25%10YR 5/4		sicl	34	2	0		m	vfi	

Limiting Conditions	inches	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	8	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	42	glacial till	

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.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Delaware
 Township / Sec.: Marlboro
 Property Address/Location: Parcel Split East of 6421 Troy Rd
Delaware
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 11
 Latitude/Longitude: _____
 Method: Pit Auger Tube

Land Use / Vegetation: Corn
 Landform: Till Plan
 Position on Landform: Backslope
 Percent Slope: 0.5 to 1.0%
 Shape of Slope: Linear / Lnear
 Bedrooms or GPD: 4
 Date: Wednesday, November 08, 2023
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 23K119
 Soil Series: _____


 Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10YR 4/3			sil	25	2	1	m	sbk	fr	
Bt1	8 to 19	10YR 5/4		25%10YR 5/2	sicl	35	2	2	m	sbk	fi	
Bt2	19 to 31	10YR 5/4		30%10YR 5/2	sic	40	2	2	m	sbk	fi	
BC	31 to 36	10YR 5/4		25%10YR 5/2	sicl	36	2	1	m	sbk	fi	
Cd	36+	10Yr 4/4		20%10YR 5/2	sicl	34	2	0		m	vfi	

Limiting Conditions	inches	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	8	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	36	glacial till	

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.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Delaware
 Township / Sec.: Marlboro
 Property Address/Location: Parcel Split East of 6421 Troy Rd
Delaware
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 12
 Latitude/Longitude: _____
 Method: Pit Auger Tube

Land Use / Vegetation: Corn
 Landform: Till Plan
 Position on Landform: Backslope
 Percent Slope: 0.5 to 1.0%
 Shape of Slope: Linear / Lnear
 Bedrooms or GPD: 4
 Date: Wednesday, November 08, 2023
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 23K119
 Soil Series: _____


 Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10YR 4/3			sil	25	2	1	m	sbk	fr	
Bt1	8 to 17	10YR 5/4		35%10YR 5/2	sicl	36	2	2	m	sbk	fi	
Bt2	17 to 30	10YR 5/4		30%10yR 5/2	sic	40	2	2	m	sbk	fi	
BC	30 to 34	10YR 5/3		25%10YR 5/2	sicl	35	2	1	m	sbk	fi	
Cd	34+	10YR 4/3		30%10YR 5/2	sicl	33	2	0		m	vfi	

Limiting Conditions	inches	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	8	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	34	glacial till	

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.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Delaware
 Township / Sec.: Marlboro
 Property Address/Location: Parcel Split East of 6421 Troy Rd
Delaware
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 13
 Latitude/Longitude: _____
 Method: Pit Auger Tube

Land Use / Vegetation: Corn
 Landform: Till Plan
 Position on Landform: Backslope
 Percent Slope: 0.5 to 1.0%
 Shape of Slope: Linear / Lnear
 Bedrooms or GPD: 4
 Date: Wednesday, November 08, 2023
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 23K119
 Soil Series: _____


 Signature: *Steven A. Miller*
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Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10YR 4/3			sil	25	2	1	m	sbk	fr	
Bt1	8 to 23	10YR 5/4		25%10YR 5/2	sicl	36	2	2	m	sbk	fi	
Bt2	23 to 38	10YR 5/4		30%10YR 5/2	sicl	38	2	2	m	sbk	fi	
BC	38 to 42	10YR 5/4		35%10YR 5/2	sicl	35	2	1	m	sbk	fi	
Cd	42+	10YR 4/4		25%10yR 5/1	sicl	33	2	0		m	vfi	

Limiting Conditions	inches	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	8	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	42	glacial till	

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.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Delaware
 Township / Sec.: Marlboro
 Property Address/Location: Parcel Split East of 6421 Troy Rd
Delaware
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 14
 Latitude/Longitude: _____
 Method: Pit Auger Tube

Land Use / Vegetation: Corn
 Landform: Till Plan
 Position on Landform: Backslope
 Percent Slope: 0.5 to 1.0%
 Shape of Slope: Linear / Lnear
 Bedrooms or GPD: 4
 Date: Wednesday, November 08, 2023
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 23K119
 Soil Series: _____


 Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
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Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10YR 4/3			sil	25	2	1	m	sbk	fr	
Bt1	8 to 22	10YR 5/4		15%10YR 5/2	sicl	36	2	2	m	sbk	fi	
Bt2	22 to 34	10YR 5/4		20%10YR 5/2	sic	40	2	2	m	sbk	fi	
BC	34 to 39	10YR 5/4		25%10YR 5/2	sicl	35	2	1	m	sbk	fi	
Cd	39+	10YR 4/4		20%10YR 5/2	sicl	33	2	0		m	vfi	

Limiting Conditions	inches	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	8	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	39	glacial till	

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.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Delaware
 Township / Sec.: Marlboro
 Property Address/Location: Parcel Split East of 6421 Troy Rd
Delaware
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 15
 Latitude/Longitude: _____
 Method: Pit Auger Tube

Land Use / Vegetation: Corn
 Landform: Till Plan
 Position on Landform: Backslope
 Percent Slope: 0.5 to 1.0%
 Shape of Slope: Linear / Lnear
 Bedrooms or GPD: 4
 Date: Wednesday, November 08, 2023
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 23K119
 Soil Series: _____


 Signature: *Steven A. Miller*
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Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap1	0 to 6	10YR 4/3			sil	25	2	1	m	sbk	fr	
Ap2	6 to 12	10YR 3/3	10%10yR 5/6	5%10YR 4/2	sic1	35	2	2	m	sbk	fi	
Btg	12 to 52	10YR 5/2	25%10YR 5/4		sic1	36	2	2	m	sbk	fi	
BCg	52 to 57	10YR 5/1	30%10YR 5/4		sic1	35	2	1	m	sbk	fi	
Cdg	57+	10YR 5/2	35%10YR 5/4		sic1	32	2	0		m	vfi	

Limiting Conditions	inches	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	6	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	57	glacial till	

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.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Delaware
 Township / Sec.: Marlboro
 Property Address/Location: Parcel Split East of 6421 Troy Rd
Delaware
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 16
 Latitude/Longitude: _____
 Method: Pit Auger Tube

Land Use / Vegetation: Corn
 Landform: Till Plan
 Position on Landform: Backslope
 Percent Slope: 0.5 to 1.0%
 Shape of Slope: Linear / Lnear
 Bedrooms or GPD: 4
 Date: Wednesday, November 08, 2023
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 23K119
 Soil Series: _____


 Signature: *Steven A. Miller*
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Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap1	0 to 6	10YR 4/3			sil	25	2	1	m	sbk	fr	
Ap2	6 to 13	10YR 3/3	5%10YR 5/6	5%10YR 4/2	sic1	36	2	2	m	sbk	fi	
Btg	13 to 48	10YR 5/2	30%10YR 5/4		sic1	38	2	2	m	sbk	fi	
BCg	48 to 55	10YR 5/1	35%10YR 5/4		sic1	35	2	1	m	sbk	fi	
Cdg	55+	10YR 5/2	30%10YR 5/4		sic1	30	2	0		m	vfi	

Limiting Conditions	inches	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	6	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	55	glacial till	

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.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Delaware
 Township / Sec.: Marlboro
 Property Address/Location: Parcel Split East of 6421 Troy Rd
Delaware
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 17
 Latitude/Longitude: _____
 Method: Pit Auger Tube

Land Use / Vegetation: Corn
 Landform: Till Plan
 Position on Landform: Backslope
 Percent Slope: 0.5 to 1.0%
 Shape of Slope: Linear / Lnear
 Bedrooms or GPD: 4
 Date: Wednesday, November 08, 2023
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 23K119
 Soil Series: _____


 Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap1	0 to 6	10YR 4/3			sil	25	2	1	m	sbk	fr	
Ap2	6 to 11	10YR 3/3	5%10YR 5/6	10%10YR 4/2	sicl	32	2	2	m	sbk	fi	
Btg	11 to 45	10YR 5/2	25%10YR 5/4		sicl	36	2	2	m	sbk	fi	
BCg	45 to 52	10YR 5/2	30%10YR 5/4		sicl	34	2	1	m	sbk	fi	
Cdg	52+	10YR 5/2	25%10YR 5/4		sicl	32	2	0		m	vfi	

Limiting Conditions	inches	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	6	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	52	glacial till	

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.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Delaware
 Township / Sec.: Marlboro
 Property Address/Location: Parcel Split East of 6421 Troy Rd
Delaware
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 18
 Latitude/Longitude: _____
 Method: Pit Auger Tube

Land Use / Vegetation: Corn
 Landform: Till Plan
 Position on Landform: Backslope
 Percent Slope: 0.5 to 1.0%
 Shape of Slope: Linear / Lnear
 Bedrooms or GPD: 4
 Date: Wednesday, November 08, 2023
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 23K119
 Soil Series: _____


 Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap1	0 to 6	10YR 4/3			sil	25	2	1	m	sbk	fr	
Ap2	6 to 12	10YR 3/3	5%10YR 5/6	10%10YR 4/2	sic1	32	2	2	m	sbk	fi	
Btg	12 to 50	10YR 5/2	30%10YR 5/6		sic1	38	2	2	m	sbk	fi	
BCg	50 to 54	10YR 5/1	25%10YR 5/6		sic1	32	2	1	m	sbk	fi	
Cdg	54+	10YR 5/1	30%10YR 5/6		sic1	30	2	0		m	vfi	

Limiting Conditions	inches	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	6	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	54	glacial till	

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.