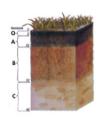
Soil and Environmental Consulting Services, Inc.



Friday, November 20, 2020

Bruner Land Company c/o Lori Bruner brunerland@hotmail.com

Re: Soil investigation for on-site septic disposal for the parcel north of 5702 Curtis Road, Randor Township, Delaware County, Ohio.

Enclosed you will find the requested detailed soil descriptions for the parcel north of 5702 Curtis Road. Randor Township, Delaware County, Ohio.

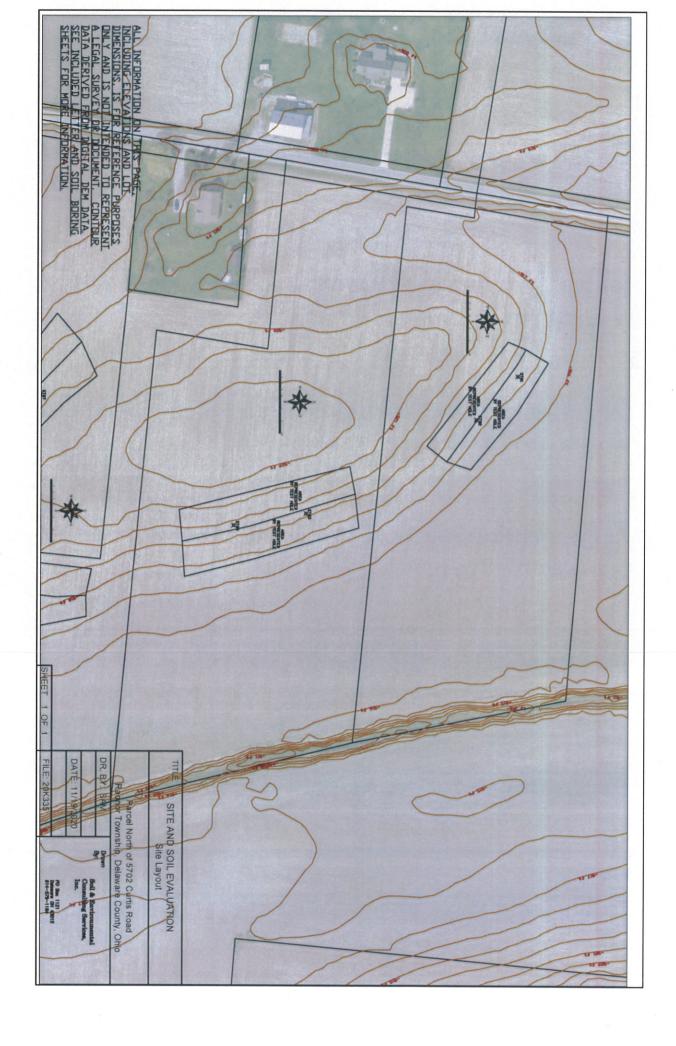
The soils of the selected sites were mapped and described on the enclosed sheets for your records. The locations of the soil borings have been located using GPS and the locations have been delineated on the enclosed map. Copies of this letter, soil boring descriptions, sketch, and system drawing should 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. It may also be necessary for the soil borings to be located by a surveyor.

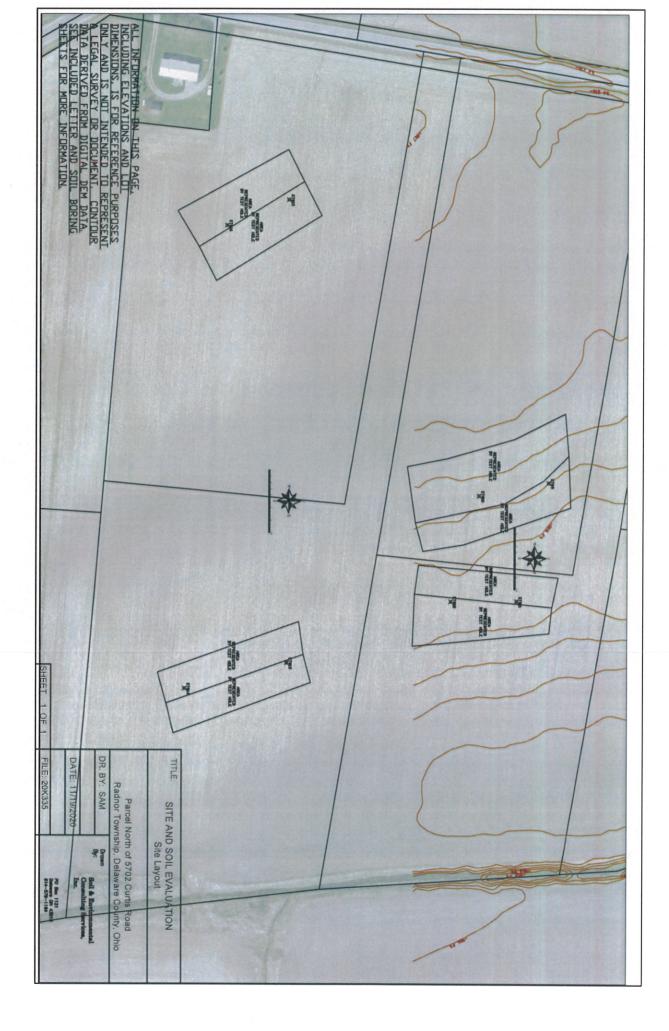
Please protect all areas approved for septic disposal by having the contractor stake and rope off the proposed locations prior to driveway and basement excavation. No soil, building, or waste material should be stored on the proposed absorption areas. Disturbance to the areas may result in compaction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

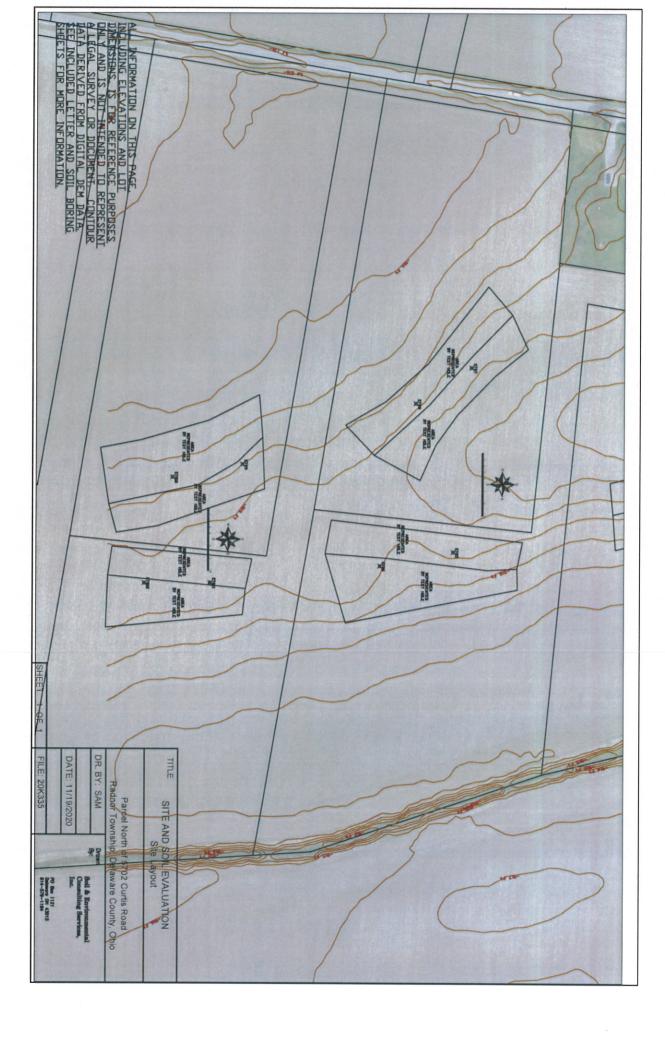
If you have any questions or want to move forward with the septic design process feel free to contact us.

Steven Miller, CPSS









								•		#		
					(F.			glacial till		45		Restrictive Layer
										>55		Bedrock
								223		>55	Material	Highly Permeable Material
										>55	able	Apparent Water Table
	ent.	may be pres	Subsurface ag drainage may be present.		Surface water should be diverted around system.	r should be div	Surface water	perched on glacial till	perci	9	Water Table	Perched Seasonal Water Table
		ors:	Remarks / Risk Factors:	Remai				Description		inches	Conditions	Limiting Conditions
	vfi	m		0	5	34	cl	35%10Yr 5/1		10YR 4/4	45+	С
	fi	sbk	m	1	2	36	sicl	40%10YR 5/1		10YR 5/4	40 to 45	BC
	fi	sbk	m	2	2	38	sicl	35%10YR 5/2		10YR 5/4	22 to 40	Bt2
	fi	sbk	m	2	2	35	sicl	30%!0YR 5/2		10YR 5/3	9 to 22	Bt1
	fr	sbk	m	ω	2	32	sicl			10YR 4/3	0 to 9	Ap
Other Soil Features	Consistence	Type (shape)	Size	Grade	Approx. % Fragments	Approx. % Clay	Class	Depletions	Concentrations	Matrix Color	Depth (inches)	Horizon
			Structure			Texture		hic Features	Redoximorphic Features			
						-		chroma)	Munsell Color (hue, value, chroma)	Munsell		
			oility	Estimating Soil Permeability	Estimatir			ation	Estimating Soil Saturation	Estir	Soil Profile	Soil
												STATE OF THE PARTY
hoo.com	soilconsultant@yahoo.com	solicon			20K335		Job Number: Soil Series:		X Lube	PitAuger	Method:	
	164	p-614.579.1164	Phone#: p-)15	Delaware OH 43015						Latitude/Longitude:	Latitu
	1	3			P.O. Box 1121					1	Test Hole #:	
20424	d	1 de 1	Signature:	ulting, Inc.	Soil & Environmental Consultin	Soil & Envir					Lot #:	
Section of the))			SSc	Steven Miller, CPSSc	Ste	Evaluator:				Phone #:	
CENTRED PROPERSIONAL IN		-		18, 2020	Wednesday, November 18,		Date:				1	
STEVEN MELEN	7 7037				4		Bedrooms or GPD:	Е			Address:	
					Linear / Linear		Shape of Slope		Company	Bruner Land Company	Applicant Name:	Ap
ORCDOCS \	-				0.5 to 1.0%		Percent Slope:					
	•				Backslope		Position on Landform	Posi	Curtis Road	North of 5702 Curtis Road	Property Address/Location:	Property A
	'				Till Plain		Landform		or	Radnor	Township / Sec.:	To
A Committee of the Comm					Bean Stubble		Land Use / Vegetation:	Land	are	Delaware	County:	

	Method: Pit	Latitude/Longitude:	Test Hole #:	Lot #:	Phone #:		Address:	Applicant Name:		Property Address/Location:	Township / Sec.:	County:
	Pit Auger X Tube		2	ı				Bruner Land Company		North of 5702 Curtis Road	Radnor	Delaware
00:100:00:	Job Number:			So	Evaluator:	Date:	Bedrooms or GPD:	Shape of Slope:	Percent Slope:	Position on Landform:	Landform:	Land Use / Vegetation:
	20K335	Delaware OH 43015	P.O. Box 1121	Soil & Environmental Consulting, Inc.	Steven Miller, CPSSc	Wednesday, November 18, 2020	4	Linear / Linear	0.5 to 1.0%	Backslope	Till Plain	Bean Stubble
	,	Phone#:		Signature:								
	soilconsultant@yahoo.com	Phone#: p-614.579.1164		20424	O SUBSECTION OF THE PROPERTY O	SERVICED PROPERTY &	STEPHEN AND STEPHEN		CIECOCIES			and the state of t

	Restrictive Layer	Bedrock	Highly Permeable Material	Apparent Water Table	Perched Seasonal Water Table	Limiting Conditions			С	ВС	Bt2	Bt1	Ap	Horizon			Soil Profile
			1aterial	ole	ater Table	onditions			50+	43 to 50	17 to 43	9 to 17	0 to 9	Depth (inches)			ofile
#	50	>55	>55	>55	9	inches			10YR 4/4	10YR 5/4	10YR 5/3	10YR 5/3	10YR 4/3	Matrix Color		Munsell	Esti
					рего									Concentrations	Redoximor	Munsell Color (hue, value, chroma)	Estimating Soil Saturation
	glacial till				perched on glacial till	Description			30%10YR 5/1	25%10YR 5/1	35%10YR 5/2	25%10Yr 5/2		Depletions	Redoximorphic Features	, chroma)	ration
					Surface water				cl	sicl	sicl	sicl	sicl	Class			
					should be div				34	36	38	35	32	Approx. % Clay	Texture		
					erted around sy			7	5	2	2	2	2	Approx. % Fragments			Estimatin
					Surface water should be diverted around system. Subsurface ag drainage may be present	Remar			0	1	2	2	ω	Grade		-	Estimating Soil Permeability
					ce ag drainage	Remarks / Risk Factors:				m	m	m	m	Size	Structure		ility
					may be pres	ors:			m	sbk	sbk	sbk	sbk	Type (shape)			
					ent.				vfi	fi	fi	fi	fr	Consistence			
														Other Soil Features			

										"		
								glacial till		38		Restrictive Layer
										>55		Bedrock
										>55	Material	Highly Permeable Material
										>55	able	Apparent Water Table
	sent.	may be pres	Subsurface ag drainage may be present.		Surface water should be diverted around system.	r should be div	Surface water	perched on glacial till	percl	21	Water Table	Perched Seasonal Water Table
		tors:	Remarks / Risk Factors:	Rema				Description		inches	Limiting Conditions	Limiting
										,		
	vfi	m		0	5	32	C!	5%10YR 5/2		10YR 4/4	38+	С
	fi	sbk	m	1	2	35	sicl	8%10YR 5/2		10YR 5/4	34 to 8	ВС
	fì	sbk	m	2	2	36	sicl	5%10YR 5/2		10YR 5/6	21 to 34	Bt2
	fi	sbk	m	2	2	30	sicl			10YR 5/6	8 to 21	Bt1
	fr	sbk	В	ω	2	22	sil			10YR 4/3	0 to 8	Ap
Other Soil Features	Consistence	Type (shape)	Size	Grade	Approx. % Fragments	Approx. % Clay	Class	Depletions	Concentrations	Matrix Color	Depth (inches)	Horizon
			Structure			Texture		hic Features	Redoximorphic Features			
				(chroma)	Munsell Color (hue, value, chroma)	Munsell		
			bility	Estimating Soil Permeability	Estimatin			ation	Estimating Soil Saturation	Esti	Soil Profile	Soil
alloo.com	soliconsultant@yanoo.com	SOIICOI			200000		Soil Series:		, and	- Sugar		
5000	1164	p-614.579.1164	Phone#: P)15	Delaware OH 43015		Ich Nimbor	170	V Tuke	Dit Auger	Latitude/Longitude:	Latitu
		3			P.O. Box 1121					w	Test Hole #:	•
20423	the	A. A.	Signature:	ulting, Inc.	Soil & Environmental Consultin	Soil & Envir					Lot #:	
The sense and				SSc	Steven Miller, CPSSc		Evaluator:				Phone #:	
CERTIFIED PROFESSIONAL A				18, 2020	Wednesday, November 18,		Date:				ı	
STEPHEN AND A	-				4		Bedrooms or GPD:	E			Address:	
	T.				Linear / Linear		Shape of Slope:	•	Company	Bruner Land Company	Applicant Name:	Ap
CIRCIDACS					1 to 3%		Percent Slope:					
	•				Backslope		Position on Landform:	Posi	Curtis Road	North of 5702 Curtis Road	Property Address/Location:	Property A
	'.				Till Plain		Landform:		or	Radnor	Township / Sec.:	To
The same of the sa					Bean Stubble		Land Use / Vegetation:	Land	are	Delaware	County:	

										11		
								glacial till		32		Restrictive Layer
										>55		Bedrock
										>55	Material	Highly Permeable Material
										>55	able	Apparent Water Table
	sent.	may be pres	Subsurface ag drainage may be present.		Surface water should be diverted around system.	r should be div	Surface water	perched on glacial till	percl	24	Water Table	Perched Seasonal Water Table
		ors:	Remarks / Risk Factors:	Rema				Description		inches	Limiting Conditions	Limiting
												1
											z	
	vfi	m		0	10	32	<u>c</u>	10%10YR 5/2		10YR 4/4	32+	С
	fi	sbk	m	1	8	35	sicl	12%10RY 5/2		10YR 5/4	30 to 32	ВС
	fi	sbk	m	2	5	36	sicl	10%10YR 5/2		10YR 5/6	24 to 30	Bt2
	fi	sbk	m	2	2	32	sicl			10YR 5/6	8 to 24	Bt1
	fr	sbk	m	ω	2	22	sil			10YR 4/3	0 to 8	Ap
Other Soil Features	Consistence	Type (shape)	Size	Grade	Approx. % Fragments	Approx. % Clay	Class	Depletions	Concentrations	Matrix Color	Depth (inches)	Horizon
			Structure			Texture		hic Features	Redoximorphic Features			
								chroma)	Munsell Color (hue, value, chroma)	Munsell		
			bility	Estimating Soil Permeability	Estimatin			ation	Estimating Soil Saturation	Esti	Soil Profile	Soil J
hoo.com	soilconsultant@yahoo.com	soilcon			20K335		Job Number:		X Tube	PitAuger	Method:	
	164	p-614.579.1164	Phone#: p-)15	Delaware OH 43015	De					Latitude/Longitude:	Latitu
•	1	3			P.O. Box 1121					4	Test Hole #:	
20424	d	A SE	Signature:	ulting, Inc.	Soil & Environmental Consulting, Inc.	Soil & Envir					Lot #:	
The second of the second	or or			SSc	Steven Miller, CPSSc	Ste	Evaluator:				Phone #:	
CERTIFIED PROFESSIONAL	-			18, 2020	Wednesday, November 18,		Date:				1	
STEVEN A MELER	1 7000				4		Bedrooms or GPD:	В			Address:	
	I P				Linear / Linear		Shape of Slope:		Company	Bruner Land Company	Applicant Name:	Ap
CIACDOCS	-				1 to 3%		Percent Slope:					
					Backslope		Position on Landform:	Posit	Curtis Road	North of 5702 Curtis Road	Property Address/Location:	Property A
	``				Till Plain		Landform:		or	Radnor	Township / Sec.:	To
					Bean Stubble		Land Use / Vegetation:	Land	are	Delaware	County:	

	Method:	Latitude/Longitude:	Test Hole #:	Lot #:	Phone #:	I	Address:	Applicant Name:	l	Property Address/Location:	Township / Sec.:	County:
	Method: Pit Auger X Tube		S					Bruner Land Company		North of 5702 Curtis Road	Radnor	Delaware
Soil Series:	Job Number:				Evaluator:	Date:	Bedrooms or GPD:	Shape of Slope:	Percent Slope:	Position on Landform:	Landform:	Land Use / Vegetation:
	20K335	Delaware OH 43015	P.O. Box 1121	Soil & Environmental Consulting, Inc.	Steven Miller, CPSSc	Wednesday, November 18, 2020	4	Linear / Linear	1 to 3%	Backslope	Till Plain	Bean Stubble
		Phone#:		Signature:	'		'	'	'		''	
	soilconsultant@yahoo.com	p-614.579.1164		20423	O SOME SOME SOME	CENTRED PROFITS SERVE	STORES AND THE STORES		CIRCOCICS			The state of the s

									-	ŧ		
								glacial till		43		Restrictive Laver
										55<		Bedrock
										>55<	Material	Highly Permeable Material
						;				>55	able	Apparent Water Table
	sent.	may be pre	Subsurface ag drainage may be present	ystem. Subsurfa	Surface water should be diverted around system.	r should be div	Surface water	perched on glacial till	perc	22	Water Table	Perched Seasonal Water Table
		ors:	Remarks / Risk Factors:	Remar				Description		inches	Limiting Conditions	Limiting
,					9		-					
	vfi	m		0	10	32	cl	2%10YR 5/2		10YR 4/4	43+	С
	fi	sbk	m	1	8	34	sicl	8%10YR 5/2		10YR 5/4	38 to 43	ВС
	fi	sbk	m	2	5	36	sicl	5%10Yr 5/2		10YR 5/6	22 to 38	Bt2
	fi	sbk	m	2	2	30	sicl			10 YR 5/6	7 to 22	Bt1
	fr	sbk	m	ω	2	22	sil			10YR 4/3	0 to 7	Ар
Other Soil Features	Consistence	Type (shape)	Size	Grade	Approx. % Fragments	Approx. % Clay	Class	Depletions	Concentrations	Matrix Color	Depth (inches)	Horizon
			Structure			Texture		Redoximorphic Features	Redoximorp			
				(, chroma)	Munsell Color (hue, value, chroma)	Munsel		
			ility	Estimating Soil Permeability	Estimatin			ation	Estimating Soil Saturation	Esti	Soil Profile	Soil

										>55	Material	Highly Permeable Material
										>55	able	Apparent Water Table
	sent.	e may be pre	Subsurface ag drainage may be present.		Surface water should be diverted around system.	r should be div	Surface water	perched on glacial till	perc	16	Water Table	Perched Seasonal Water Table
		:tors:	Remarks / Risk Factors:	Rema				Description		inches	Limiting Conditions	Limiting
3												
	νfi	m		0	10	32	cl	5%10YR 5/2		10YR 4/4	45+	С
	fi	sbk	m	1	8	33	sicl	15%10YR 5/2		10YR 5/4	42 to 45	ВС
	fi	sbk	m	2	5	35	sicl	10%10YR 5/2		10YR 5/6	16 to 42	Bt2
	fi	sbk	m	2	2	28	sicl			10YR 5/6	10 to 16	Bt1
	fr	sbk	m	ω	2	22	sil			10YR 4/3	0 to 10	Ap
Other Soil Features	Consistence	Type (shape)	Size	Grade	Approx. % Fragments	Approx. % Clay	Class	Depletions	Concentrations	Matrix Color	Depth (inches)	Horizon
			Structure			Texture		hic Features	Redoximorphic Features			
								, chroma)	Munsell Color (hue, value, chroma)	Munsel		
			bility	Estimating Soil Permeability	Estimatin			ation	Estimating Soil Saturation	Est	Soil Profile	Soil
	Soliconsultant@yanoo.com	SOLICO			202000		Soil Series:		, and	, yagor	- Annual Control	
	1104	p-014.5/9.1104	Phone#: P	010	Delaware OH 45015		1-1 11 1-1		4		Mathad:	Latitu
					P.O. Box 1121	,				0	lest Hole #:	T otit
2842	A day	B	Signature:	ulting, Inc.	Soil & Environmental Consultin	Soil & Envir		-			Lot #:	
The second second				SSc	Steven Miller, CPSSc		Evaluator:	٠		j	Phone #:	
CERTIFIED PROFESSIONAL A		-		18, 2020	Wednesday, November 18,		Date:				I	
STEVENTA MILLER	7,000				4		Bedrooms or GPD:				Address:	
					Linear / Linear		Shape of Slope		1 Company	Bruner Land Company	Applicant Name:	Ap
CIECDOCS				13	1 to 3%		Percent Slope:				ı	
					Backslope		Position on Landform	Posi	Curtis Road	North of 5702 Curtis Road	Property Address/Location:	Property A
	',				Till Plain		Landform		nor	Radnor	Township / Sec.:	To
The same of the same					Bean Stubble		Land Use / Vegetation:	Land	ware	Delaware	County:	

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.

Bedrock Restrictive Layer

>55 45

glacial till

					AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN							
						12		glacial till		35		Restrictive Layer
										>55		Bedrock
										>55	Material	Highly Permeable Material
										>55	able	Apparent Water Table
	sent.	may be pres	Subsurface ag drainage may be present.		Surface water should be diverted around system.	r should be div	Surface water	perched on glacial till	percl	32	Water Table	Perched Seasonal Water Table
		tors:	Remarks / Risk Factors:	Rema				Description		inches	Limiting Conditions	Limiting
	vfi	m		0	∞	32	c.l	10%10YR 5/2		10YR 4/4	35+	С
	fî	sbk	m	-	5	34	sicl	5%10YR 5/2		10YR 5/4	32 to 35	BC
	fî	sbk	В	2	5	36	sicl			10YR 5/6	21 to 32	Bt2
	fî	sbk	В	2	2	30	sicl			10YR 5/6	9 to 21	Bt1
	fr	sbk	В	w	2	22	sil			10YR 4/3	0 to 9	Ap
Other Soil Features	Consistence	Type (shape)	Size	Grade	Approx. % Fragments	Approx. % Clay	Class	Depletions	Concentrations	Matrix Color	Depth (inches)	Horizon
			Structure			Texture		hic Features	Redoximorphic Features			
								chroma)	Munsell Color (hue, value, chroma)	Munsell		
			bility	Estimating Soil Permeability	Estimatin			ation	Estimating Soil Saturation	Esti	Soil Profile	Soil
	solicolisaliani (@yalloo.colli	GOLOGI			202000		Soil Series:		;			
3	104	p-614.5/9.1164	Phone#: p	115	Delaware OH 43015		Ich Nimber			Dit Auger	Method:	Lättit
					P.O. Box 1121					7	Test Hole #:	1
2042	& day	E E	Signature:	ulting, Inc.	Soil & Environmental Consulting, Inc.	Soil & Envir					Lot #:	
	2			SSc	Steven Miller, CPSSc		Evaluator:				Phone #:	
CHARLES PROPERTY AND A STATE OF THE PARTY AND		-		18, 2020	Wednesday, November 18,		Date:				I	
STEVEN A MELER					4		Bedrooms or GPD:	H			Address:	
	T IN				Linear / Linear		Shape of Slope:		Company	Bruner Land Company	Applicant Name:	Ap
checpaes					2 to 3%		Percent Slope:				ı	
					Backslope		Position on Landform:	Posi	Curtis Road	North of 5702 Curtis Road	Property Address/Location:	Property A
	`\				Till Plain		Landform:		OI	Radnor	Township / Sec.:	Tc
The same of the sa					Bean Stubble		Land Use / Vegetation:	Land	are	Delaware	County:	

				THE RESIDENCE OF THE PERSON NAMED IN						:		
								glacial till		41		Restrictive Layer
										>55		Bedrock
										>55	Material	Highly Permeable Material
										>55	able	Apparent Water Table
	sent.	e may be pres	Subsurface ag drainage may be present.		Surface water should be diverted around system.	r should be div	Surface water	perched on glacial till	perc	29	Water Table	Perched Seasonal Water Table
		tors:	Remarks / Risk Factors:	Rema				Description		inches	Limiting Conditions	Limiting
	vfi	m		0	∞	32	c.l	10%10Yr 5/2		10YR 4/4	41+	0
	fi	sbk	m		5	35	sicl	15%10YR 5/2		10YR 5/4	36 to 41	ВС
	fi	sbk	m	2	5	36	sicl	20%10YR 5/2		10YR 5/4	29 to 36	Bt2
	fī	sbk	m	2	2	34	sicl	15%10YR 5/2		10YR 5/6	10 to 29	Bt1
	fr	sbk	m	. ω .	2	22	sil			10YR 4/3	0 to 10	Ap
Other Soil Features	Consistence	Type (shape)	Size	Grade	Approx. % Fragments	Approx. % Clay	Class	Depletions	Concentrations	Matrix Color	Depth (inches)	Horizon
			Structure			Texture		Redoximorphic Features	Redoximorp			
								chroma)	Munsell Color (hue, value, chroma)	Munsell		
			bility	Estimating Soil Permeability	Estimatin			ation	Estimating Soil Saturation	Esti	Soil Profile	Soil
	Soliconsultant@yanoo.com	9011001			208333		Soil Series:		, and		Triculou.	
5000	164	p-614.579.1164	Phone#: p	15	Delaware OH 43015		Tob Nimebou		۱		Latitude/Longitude:	Latitu
		3			P.O. Box 1121					000	Test Hole #:	
20424	1 da	Z	Signature:	ulting, Inc.	Soil & Environmental Consultin	Soil & Envir					Lot #:	
		-		SSc	Steven Miller, CPSSc		Evaluator:				Phone #:	
CERTIFIED PROFESSIONAL A		-		18, 2020	Wednesday, November 18,		Date:				I	
STEVEN AND THE					4		Bedrooms or GPD:	н			Address:	
	T IN				Linear / Linear		Shape of Slope:		Company	Bruner Land Company	Applicant Name:	Ap
Clacpacs					1 to 2%		Percent Slope:					
					Backslope		Position on Landform:	Posi	Curtis Road	North of 5702 Curtis Road	Property Address/Location:	Property A
	``				Till Plain		Landform		or	Radnor	Township / Sec.:	To
The state of the s					Bean Stubble		Land Use / Vegetation:	Land	are	Delaware	County:	

County		are	Land	Land Use / Vegetation:		Bean Stubble					1
Droparty Addrass/I postion:		Or Dood	Dog	Landform:		I III Plain				``\	
Property Address/Location:	ion: North of 5 /02 Curtis Road	Curtis Road	Posi	Position on Landform:		Backslope					-
A1:				Percent Slope:		1 to 2%				P.	Oer Doce
Applicant Name:	ne: Bruner Land Company	Company		Shape of Slope:		Linear / Linear				100	
Address	SS:			Bedrooms or GPD:		4					STEWERY WILLER
				Date:	Wednesda	Wednesday, November 18, 2020	18, 2020				CENTRED PROFESSIONAL
Phone #:	#:			Evaluator:	Stev	Steven Miller, CPSSc	SSc			> >	SOIL SURBING TO
Lot #:	#:				Soil & Enviro	Soil & Environmental Consulting, Inc.	ulting, Inc.	Signature:	Z	To the	28424
Test Hole #:	#: 9				H	P.O. Box 1121			San	<	
Latitude/Longitude:	de:				Del	Delaware OH 43015)15	Phone#: p	p-614.579.1164	164	
Method:	od: PitAuger	X Tube		Job Number:		20K335			soilcon	soilconsultant@yahoo.com	hoo.com
				Soil Series:							
											一年 日本
Soil Profile	Estir	Estimating Soil Saturation	ation			Estimatin	Estimating Soil Permeability	ility			
	Munsell	Munsell Color (hue, value, chroma)	chroma)								
	_	Redoximorp	Redoximorphic Features		Texture			Structure			
Horizon (inches)	th Matrix es) Color	Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	Other Soil Features
Ap 0 to 10	10 10YR 4/3			sil	22	2	ω	В	sbk	fr	
Bt1 10 to 21	21 10YR 5/6		10%10YR 5/2	sicl	35	2	2	m	sbk	fi	
Bt2 21 to 38	38 10YR 5/4		15%10YR 5/2	sicl	36	5	2	В	sbk	fi	
BC 38 to 44	44 10YR 5/4		20%10YR 5/2	sicl	34	5	1	m	sbk	fi	
C 44+	10YR 4/4		15%10Yr 5/2	cl	33	8	0		m	vfi	
Limiting Conditions	inches		Description				Remar	Remarks / Risk Factors:	tors:		
Perched Seasonal Water Table	e 10	perc	perched on glacial till	Surface water should be diverted around system.	should be dive	erted around s		Subsurface ag drainage may be present.	e may be pres	sent.	
Apparent Water Table	>55										
Highly Permeable Material	>55										
Bedrock	>55										
Restrictive Layer	44		glacial till								

				The state of the s			-	0				
								glacial till		36		Restrictive Laver
										>55		Bedrock
										>55	Material	Highly Permeable Material
										>55	able	Apparent Water Table
	sent.	e may be pre	Subsurface ag drainage may be present.		Surface water should be diverted around system.	r should be di	Surface water	perched on glacial till	percl	10	Water Table	Perched Seasonal Water Table
		tors:	Remarks / Risk Factors:	Rema				Description		inches	Limiting Conditions	Limiting
	vfi	m		0	∞	33	<u>c</u>	5%10Yr 5/2		10YR 4/4	36+	С
	fì	sbk	m	1	5	34	sicl	15%10YR 5/2		10YR 5/4	34 to 36	ВС
	fī	sbk	В	2	5	36	sicl	10%10YR 5/2		10YR 5/4	19t o 34	Bt2
	fī	sbk	m	2	2	35	sicl	15%10YR 5/2		10YR 5/6	10 to 19	Bt1
	fr	sbk	m	w	2	22	sil			10YR 4/3	0 to 10	Ap
Other Soil Features	Consistence	Type (shape)	Size	Grade	Approx. % Fragments	Approx. % Clay	Class	Depletions	Concentrations	Matrix Color	Depth (inches)	Horizon
			Structure			Texture		hic Features	Redoximorphic Features			
								chroma)	Munsell Color (hue, value, chroma)	Munsell		
			bility	Estimating Soil Permeability	Estimatir			ation	Estimating Soil Saturation	Esti	Soil Profile	Soil I
	solicon saliantia yanoo.com	901001			208000		Soil Series:		;			
5000	1164	p-614.5/9.1164	Phone#: p)15	Delaware OH 43015	De	Ich Number			Dit Augus	Latitude/Longitude:	Latitu
		(P.O. Box 1121					10	Test Hole #:	•
2842	1 da	A STATE	Signature:	ulting, Inc.	Soil & Environmental Consulting, Inc.	Soil & Envir					Lot #:	
	2			SSc	Steven Miller, CPSSc	Ste	Evaluator:				Phone #:	
CHARLES PROFITS SINGLE		-		18, 2020	Wednesday, November 18,		Date:				ı	
STEMBLY VIETER					4		Bedrooms or GPD:	н			Address:	
					Linear / Linear		Shape of Slope:		Company	Bruner Land Company	Applicant Name:	Ap
CIECDOCS					1 to 2%		Percent Slope:				I	
					Backslope		Position on Landform:	Posi	Curtis Road	North of 5702 Curtis Road	Property Address/Location:	Property A
	``				Till Plain		Landform:		or	Radnor	Township / Sec.:	To
The state of the s					Bean Stubble		Land Use / Vegetation:	Land	are	Delaware	County:	

	NAME AND ADDRESS OF TAXABLE PARTY.		THE REAL PROPERTY AND PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF			-	-	(-			
								glacial till		34		Restrictive Layer
										>55		Bedrock
										>55	Material	Highly Permeable Material
										>55	able	Apparent Water Table
	sent.	may be pres	Subsurface ag drainage may be present.		Surface water should be diverted around system.	r should be div	Surface water	perched on glacial till	perch	9	Water Table	Perched Seasonal Water Table
		ors:	Remarks / Risk Factors:	Remai				Description		inches	Limiting Conditions	Limiting (
	vfi	т		0	∞ ,	32	c!	15%10YR 5/2		10YR 4/4	34+	С
	fī	sbk	m	1	5	33	sicl	20%10Yr 5/2		10YR 5/4	30 to 34	ВС
	fī	sbk	т	2	5	36	sicl	15% 10Yr 5/2		10YR 5/6	16 to 30	Bt2
	fi	sbk	m	2	2	34	sicl			10YR 5/6	9 to 16	Bt1
	fr	sbk	m	w	2	22	sil			10YR 4/3	0 to9	Ар
Other Soil Features	Consistence	Type (shape)	Size	Grade	Approx. % Fragments	Approx. % Clay	Class	Depletions	Concentrations	Matrix Color	Depth (inches)	Horizon
			Structure			Texture		hic Features	Redoximorphic Features			
								chroma)	Munsell Color (hue, value, chroma)	Munsell		
			oility	Estimating Soil Permeability	Estimatin			ation	Estimating Soil Saturation	Esti	Soil Profile	Soil I
noo.com	soliconsultant@yanoo.com	SOIICON			20K335		Soil Series:		X Tube	PitAuger	Method:	
	1164	p-614.579.1164	Phone#: p-)15	Delaware OH 43015						Latitude/Longitude:	Latitu
	< 1	3			P.O. Box 1121					11	Test Hole #:	
20424	1 the	Z	Signature:	ulting, Inc.	Soil & Environmental Consulting, Inc.	Soil & Enviro					Lot #:	
	2			SSc	Steven Miller, CPSSc		Evaluator:				Phone #:	
CHARGE PROFESSION &				18, 2020	Wednesday, November 18,		Date:				1	
STEMENT METERS					4		Bedrooms or GPD:	В			Address:	*
	T.E.				Linear / Linear		Shape of Slope:		Company	Bruner Land Company	Applicant Name:	Ap
CIRCOCICS	-				1 to 2%		Percent Slope:				1	
					Backslope		Position on Landform:	Positi	Curtis Road	North of 5702 Curtis Road	Property Address/Location:	Property A
	``				Till Plain		Landform:		or	Radnor	Township / Sec.:	To
A CAN WIND WAY					Bean Stubble		Land Use / Vegetation:	Land	are	Delaware	County:	

						The state of the s						
								glacial till		44		Restrictive Layer
										>55		Bedrock
										>55	Material	Highly Permeable Material
										>55	able	Apparent Water Table
	sent.	e may be pres	Subsurface ag drainage may be present.		Surface water should be diverted around system.	r should be di	Surface wate	perched on glacial till	perc	10	Water Table	Perched Seasonal Water Table
		tors:	Remarks / Risk Factors:	Rema				Description		inches	Limiting Conditions	Limiting
						1						
		2										
	vfi	В		0	∞	30	c.l	10%10YR 5/2		10YR 4/4	44+	С
	fi	sbk	m		5	32	sicl	15%10YR 5/2		10YR 5/4	40 to 44	BC
	fî	sbk	m	2	5	35	sicl	25%10YR 5/2		10YR 5/4	23 to 40	Bt2
	fî	sbk	ж	2	2	32	sicl	15% 10YR 5/2		10YR 5/4	10 to 23	Bt1
	fr	sbk	В	ω	2	22	sil			10YR 4/3	0 to 10	Ap
Other Soil Features	Consistence	Type (shape)	Size	Grade	Approx. % Fragments	Approx. % Clay	Class	Depletions	Concentrations	Matrix Color	Depth (inches)	Horizon
			Structure			Texture		hic Features	Redoximorphic Features			
								chroma)	Munsell Color (hue, value, chroma)	Munsell		
			bility	Estimating Soil Permeability	Estimatir			ation	Estimating Soil Saturation	Esti	Soil Profile	Soil
noo.com	soliconsultant@yanoo.com	Solicon			20K335		Soil Series:		X Lube	PitAuger	Method:	
	164	p-614.579.1164	Phone#: p)15	Delaware OH 43015						Latitude/Longitude:	Latitu
	(3			P.O. Box 1121					12	Test Hole #:	
28424	1 ta	Z	Signature:	ulting, Inc.	Soil & Environmental Consulting, Inc.	Soil & Envir					Lot #:	
	\ \frac{1}{2}			SSc	Steven Miller, CPSSc		Evaluator:				Phone #:	
CERTIFICA PROFESSIONAL				18, 2020	Wednesday, November 18,		Date:				1	
STEVEN A MELLER					4		Bedrooms or GPD:	н			Address:	
					Linear / Linear		Shape of Slope		Company	Bruner Land Company	Applicant Name:	Ap
cacpacs					1 to 2%		Percent Slope:					
	٠,			2.	Backslope		Position on Landform:	Posi	Curtis Road	North of 5702 Curtis Road	Property Address/Location:	Property A
	`\				Till Plain		Landform:		or	Radnor	Township / Sec.:	To
The same of the sa					Bean Stubble		Land Use / Vegetation:	Land	are	Delaware	County:	

				THE REAL PROPERTY AND PERSONS ASSESSED.	The second named in column 2 is not a se	THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN			-			
						S-		glacial till		34		estrictive Laver
										>55		edrock
										>55	Material	lighly Permeable Material
										>55	able	pparent Water Table
	sent.	may be pres	Subsurface ag drainage may be present.		Surface water should be diverted around system.	r should be div	Surface water	perched on glacial till	perch	22	Water Table	erched Seasonal Water Table
		ors:	Remarks / Risk Factors:	Rema				Description		inches	Limiting Conditions	Limiting
									7			
	vfi	m	-	0	∞	32	<u>cl</u>	12%10YR 5/2		10YR 4/4	34+	С
	fî	sbk	m	-	5	34	sicl	15%10YR 5/2		10YR 5/4	31 to 34	ВС
	fî	sbk	В	2	5	36	sicl	10%10Yr 5/2		10YR 5/6	22 to 31	Bt2
	fî	sbk	m	2	2	32	sicl			10YR 5/6	8 to 22	Bt1
	fir	sbk	В	ω	2	22	sil			10YR 4/3	0 to 8	Ар
Other Soil Features	Consistence	Type (shape)	Size	Grade	Approx. % Fragments	Approx. % Clay	Class	Depletions	Concentrations	Matrix Color	Depth (inches)	Horizon
			Structure			Texture		nic Features	Redoximorphic Features			
								chroma)	Munsell Color (hue, value, chroma)	Munsell		
			ility	Estimating Soil Permeability	Estimatin			tion	Estimating Soil Saturation	Esti	Soil Profile	Soil I
					a Care		Soil Series:		;			
hoo com	soilconsultant@vahoo.com	soilconsulta	rnone#. p-	13	20K335		Ioh Number:			Pit Anger	Method:	Latitu
	164	617 570 1		15	P.O. Box 1121					13	Test Hole #:	
< 842	R	THE AL	Signature:	ulting, Inc.	Soil & Environmental Consulting,	Soil & Enviro					Lot #:	
100		-		SSc	Steven Miller, CPSSc	Stev	Evaluator:				Phone #:	
SON		-		18, 2020	Wednesday, November 18, 2020		Date:				1	
STENENT MILLER					4		Bedrooms or GPD:	В			Address:	
					Linear / Linear		Shape of Slope:		Company	Bruner Land Company	Applicant Name:	Apı
Spechace					1 to 2%		Percent Slope:					
	10.				Backslope		Position on Landform:	Posit	Curtis Road	North of 5702 Curtis Road	Property Address/Location:	Property A
	``				Till Plain		Landform:		or	Radnor	Township / Sec.:	To
The state of the s					Bean Stubble		Land Use / Vegetation:	Land	are	Delaware	County:	

								O				
								glacial till		32		Restrictive Laver
										>55		Bedrock
										>55	Material	Highly Permeable Material
										>55	able	Apparent Water Table
	sent.	may be pres	Subsurface ag drainage may be present.		Surface water should be diverted around system.	should be div	Surface water	perched on glacial till	perc	24	Water Table	Perched Seasonal Water Table
		fors:	Remarks / Risk Factors:	Rema				Description		inches	Limiting Conditions	Limiting
	vfi	В		0	∞	30	c.l	15%10Yr 5/2		10YR 4/4	31+	С
	fi	sbk	m	1	5	32	sicl	10%10Yr 5/2		10YR 5/4	28t o 31	ВС
	fi	sbk	m	2	5	36	sicl	5%10YR 5/2		10YR 5/6	24 to 28	Bt2
	fī	sbk	ш	2	2	34	sicl			10YR 5/6	9 to 24	Bt1
	fr	sbk	В	w	2	22	sil			10YR 4/3	0 to 9	Ар
Other Soil Features	Consistence	Type (shape)	Size	Grade	Approx. % Fragments	Approx. % Clay	Class	Depletions	Concentrations	Matrix Color	Depth (inches)	Horizon
			Structure			Texture		hic Features	Redoximorphic Features			
			0			-		chroma)	Munsell Color (hue, value, chroma)	Munsell		
			bility	Estimating Soil Permeability	Estimatin			ation	Estimating Soil Saturation	Esti	Soil Profile	Soil I
noo.com	soliconsultant@yanoo.com	SOIICON			20K335		Job Number: Soil Series:		X lube	PitAuger	Method:	
	1164	p-614.579.1164	Phone#: p-)15	Delaware OH 43015						Latitude/Longitude:	Latitu
		3			P.O. Box 1121					14	Test Hole #:	
28424	ta	Z	Signature:	ulting, Inc.	Soil & Environmental Consulting, Inc.	Soil & Enviro					Lot#:	
The second second	``````````````````````````````````````			SSc	Steven Miller, CPSSc		Evaluator:				Phone #:	
CERTIFIED PROFESSIONAL W		-		18, 2020	Wednesday, November 18,		Date:				1	
STEVENA MELEN					4		Bedrooms or GPD:	В			Address:	
The state of the s					Linear / Linear		Shape of Slope:		Company	Bruner Land Company	Applicant Name:	Ap
Sandones					1 to 2%		Percent Slope:				ı	
	· • ·				Backslope		Position on Landform:	Posit	Curtis Road	North of 5702 Curtis Road	Property Address/Location:	Property A
	'\				Till Plain		Landform:		or	Radnor	Township / Sec.:	To
1	9.				Bean Stubble		Land Use / Vegetation:	Land	are	Delaware	County:	

	The state of the s							(
								glacial till		39		Restrictive Layer
										>55		Bedrock
										>55	Material	Highly Permeable Material
										>55	able	Apparent Water Table
	sent.	e may be pre	Subsurface ag drainage may be present.	ystem. Subsurf	Surface water should be diverted around system.	should be div	Surface water	perched on glacial till	perci	16	Water Table	Perched Seasonal Water Table
		tors:	Remarks / Risk Factors:	Rema			_	Description	-	inches	Limiting Conditions	Limiting
	vfi	В		0	∞	32	c]	25%10YR 5/2		10YR 4/4	39+	С
	fī	sbk	m		5	34	sicl	20%10Yr 5/2		10YR 5/4	34 to 39	ВС
	fî	sbk	ж	2	5	38	sicl	10%10YR 5/2		10YR 5/4	16 to 34	Bt2
	fî	sbk	m	2	2	34	sicl			10YR 5/6	8 to 16	Bt1
	fr	sbk	В	ω	2	22	sil			10YR 4/3	0 to 8	Ap
Other Soil Features	Consistence	Type (shape)	Size	Grade	Approx. % Fragments	Approx. % Clay	Class	Depletions	Concentrations	Matrix Color	Depth (inches)	Horizon
			Structure		200	Texture		hic Features	Redoximorphic Features			
								chroma)	Munsell Color (hue, value, chroma)	Munsell		
			bility	Estimating Soil Permeability	Estimatin			ation	Estimating Soil Saturation	Esti	Soil Profile	Soil
					10000		Soil Series:		:	I	ı	
hoo com	soilconsultant@vahoo.com	p-014.579.1104	rnone#: p	13	20K335	De	Ich Number		X Tiihe	Pit Allger	Method:	Latitu
	164	(14 570)			P.O. Box 1121					15	lest Hole #:	
<842	A day	A A	Signature:	ulting, Inc.	Soil & Environmental Consulting, Inc.	Soil & Enviro					Lot #:	
0	5			SSc	Steven Miller, CPSSc	Ste	Evaluator:				Phone #:	
CERTIFICO PROFISSIONAL "		-		18, 2020	Wednesday, November 18,	Wednesd	Date:				ı	
STEMENT WITHOUT					4		Bedrooms or GPD:	Е			Address:	
					Linear / Linear		Shape of Slope:		Company	Bruner Land Company	Applicant Name:	Ap
CIRCOCICS					1 to 2%		Percent Slope:				I	
					Backslope		Position on Landform:	Posi	Curtis Road	North of 5702 Curtis Road	Property Address/Location:	Property A
	``				Till Plain		Landform:		or	Radnor	Township / Sec.:	To
The state of the s					Bean Stubble		Land Use / Vegetation:	Land	are	Delaware	County:	

								0	-			
								glacial till		45		Restrictive Laver
										>55		Bedrock
										>55	Material	Highly Permeable Material
										>55	able	Apparent Water Table
	sent.	may be pres	Subsurface ag drainage may be present.		Surface water should be diverted around system.	r should be di	Surface water	perched on glacial till	perc	15	Water Table	Perched Seasonal Water Table
		ors:	Remarks / Risk Factors:	Rema				Description		inches	Limiting Conditions	Limiting
				-		1						
	vfi	B		0	∞	32	C	25%10YR 5/2		10YR 4/4	45+	С
	fi	sbk	m	1	5	34	sicl	20%10Yr 5/2		10YR 5/4	38t o 45	ВС
	fi	sbk	m	2	5	36	sicl	15%10YR 5/2		10YR 5/4	15 to 38	Bt2
	fi	sbk	m	2	2	32	sicl			10YR 5/6	8 to 15	Bt1
	fr	sbk	m	ဃ	2	22	sil			10YR 4/3	0 to 8	Ар
Other Soil Features	Consistence	Type (shape)	Size	Grade	Approx. % Fragments	Approx. % Clay	Class	Depletions	Concentrations	Matrix Color	Depth (inches)	Horizon
			Structure			Texture		hic Features	Redoximorphic Features			
								chroma)	Munsell Color (hue, value, chroma)	Munsell		
			bility	Estimating Soil Permeability	Estimatir			ation	Estimating Soil Saturation	Esti	Soil Profile	Soil I
							Son Series					
hoo.com	soilconsultant@yahoo.com	soilcon			20K335		Job Number:		X Tube	Pit Auger	Method:	
	164	p-614.579.1164	Phone#: p-)15	Delaware OH 43015						Latitude/Longitude:	Latitu
		3			P.O. Box 1121					16	Test Hole #:	
20424	1 th	Z	Signature:	ulting, Inc.	Soil & Environmental Consulting, Inc.	Soil & Envir					Lot #:	,
The second second	``````````````````````````````````````			SSc	Steven Miller, CPSSc		Evaluator:				Phone #:	
CERTIFIED PROFESSIONAL				18, 2020	Wednesday, November 18, 2020		Date:				I 1	
STEMENTAL MINTER	1 1700				4		Bedrooms or GPD:	В			Address:	
					Linear / Linear		Shape of Slope:		Company	Bruner Land Company	Applicant Name:	Ap
SOCOCO	-				1 to 2%		Percent Slope:					
					Backslope		Position on Landform:	Posi	Curtis Road	North of 5702 Curtis Road	Property Address/Location:	Property A
	. (Till Plain		Landform:		or	Radnor	Township / Sec.:	To
The state of the s				**	Bean Stubble		Land Use / Vegetation:	Land	are	Delaware	County:	

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

Position on Landfo	orm
Depression	
Flat	
Knoll	
Crest	
Hillslope	
Footslope	

Shape of Sl	ope
Convex	
Concave	
Linear	
Complex	

			Horizon Nomenclature	
	Master Horizons		Horizon Suffixes	Horizon Modifiers
0	Predominantly organic matter (litter &	a	Highly decomposed organic matter	
	humus)	b	Buried genetic horizon	Numerical Prefixes: Used to denote
Α	Mineral, organic matter (humus)	d	Densic layer (physically root restrictive)	lithologic discontinuities.
	accumulation, loss of Fe, Al, clay	e	Moderately decomposed organic matter	
Е	Mineral, loss of Si, Fe, Al, clay, organic	g	Strong gley	
В	matter	i	Slightly decomposed organic matter	Numerical Suffixes: Used to denote
	Subsurface accumulation of clay, Fe, Al, Si,	p	Plow layer or artificial disturbance	subdivisions within a master
	humus; sesquioxides; loss of CaCo ₃ ;	r	Weathered or soft bedrock	horizon.
	subsurface soil structure	t	Illuvial accumulation of silicate clay	
C		w	Weak color or structure within B	7
	Little or no pedogenic alteration, unconsoilidated earthy material, soft bedrock	Х	Fragipan characteristics	
R	Hard bedrock			

Texture Class Abbreviat	ions	Textural Class Modifiers	1
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

		Soil St	ructu	re	
Grade		Size		Type (Shape	e)
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	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.