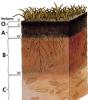
Soil and Environmental Consulting Services, Inc.



Wednesday, June 22, 2022

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

Re: Soil investigation for on-site septic disposal for the lot splits adjacent to 12481 Silvers Road, Pleasant Township, Clark County, Ohio

Enclosed you will find the requested detailed soil for the lot splits adjacent to 12481 Silvers Road, Pleasant Township, Clark County, Ohio

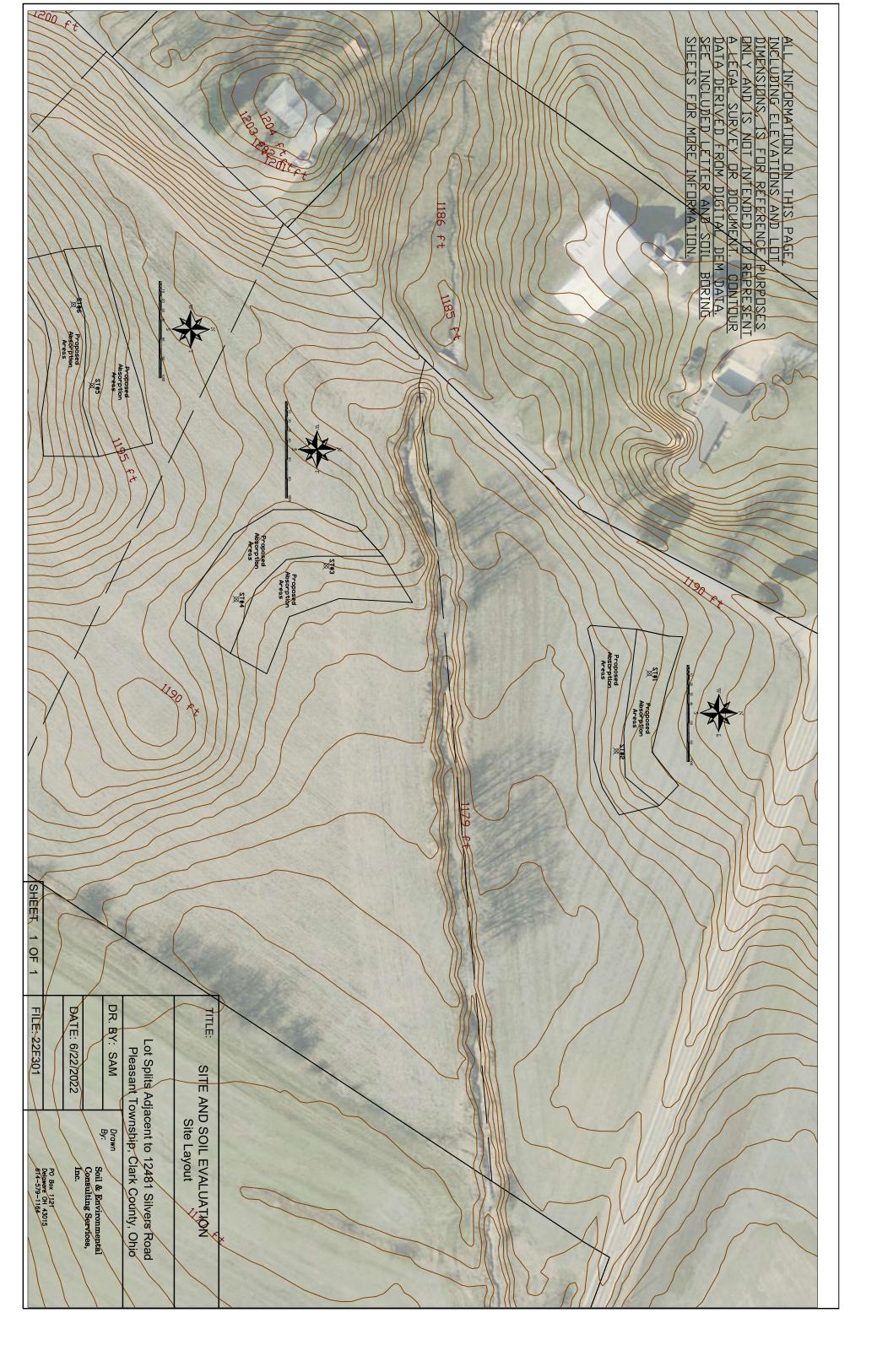
The soils of the selected sites were mapped and described on the enclosed sheets for your records. The locations of the soil borings have been located using GPS and the locations have been delineated on the enclosed map. Copies of this letter, soil boring descriptions, sketch, and system drawing should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

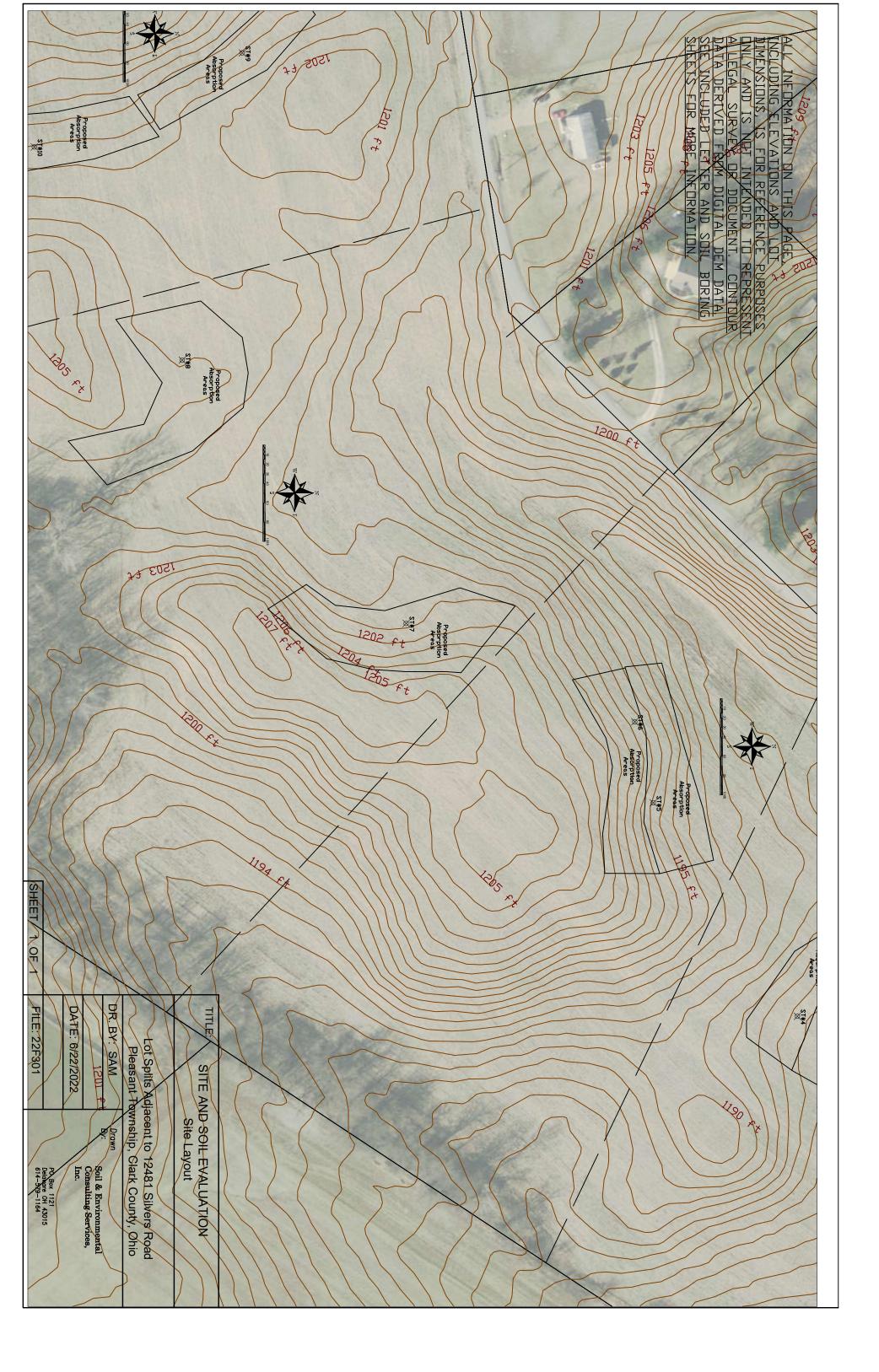
Please protect all areas approved for septic disposal by having the contractor stake and rope off the proposed locations prior to driveway and basement excavation. No soil, building, or waste material should be stored on the proposed absorption areas. Disturbance to the areas may result in compaction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

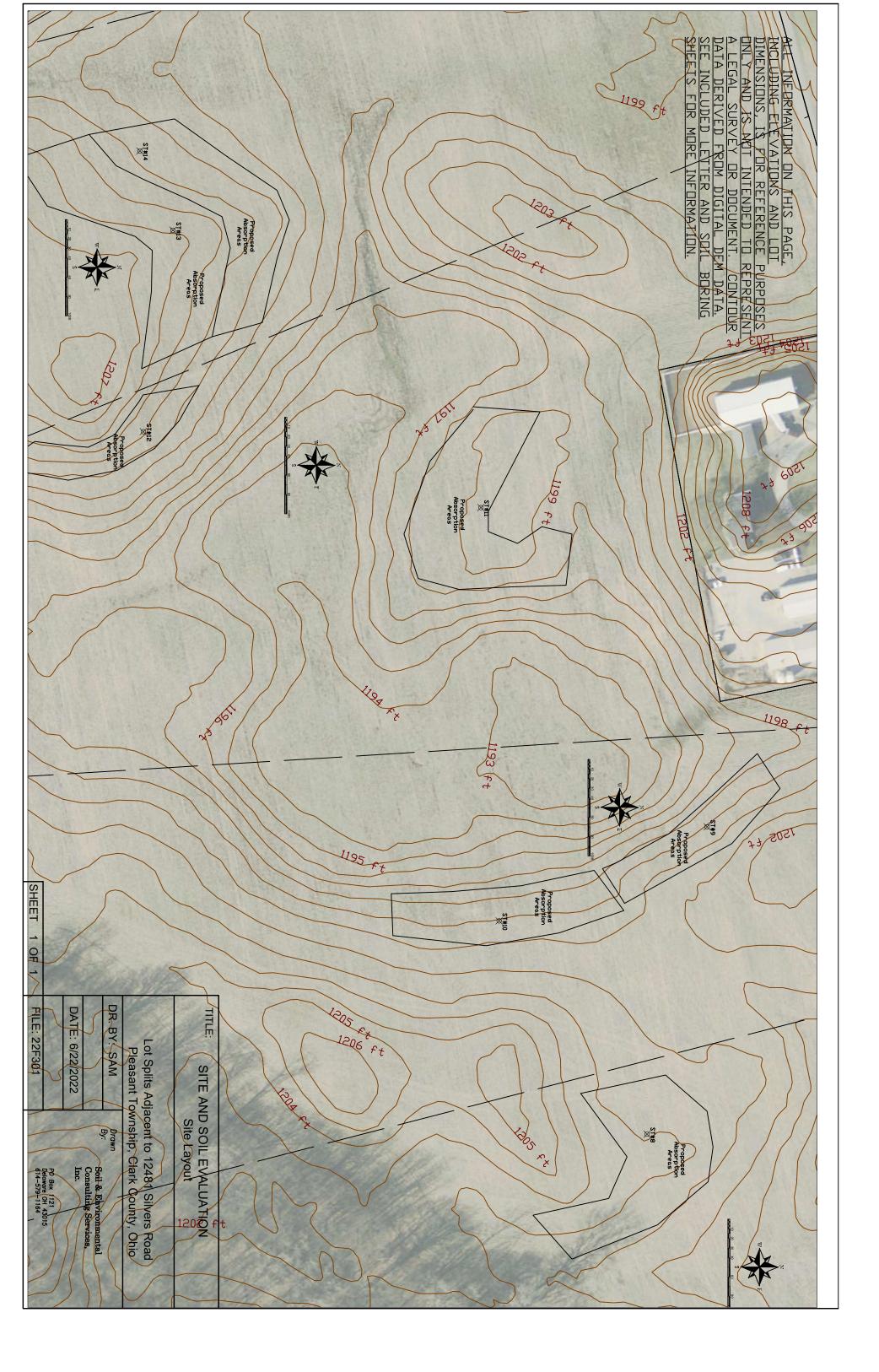
If you have any questions or want to move forward with the septic design process feel free to contact us.

Steven Miller, CPSS











County: Clark			rk	Land	d Use / Vegetation:		Bean					**************************************
To	ownship / Sec.:	Pleasa	ant		Landform:		Till Plain				-	
Property Ad	.ddress/Location:	Lot Splits Adj to 124	481 Silvers Road	Posi	ition on Landform:		Backslope				1.	
	-	South V		_	Percent Slope:						1 1	CREPACS !!!
Арј	plicant Name:	Bruner Land	Company	-	Shape of Slope:		Linear / Linear				1.55	the states of th
	Address:			. F	Bedrooms or GPD:		4					STEVENA MILLER
				-	Date:		nday, June 20, 2			1		CERTIFIED PROFESSIONAL
	Phone #:			-	Evaluator:		even Miller, CPS			V	103	0
	Lot #:						ronmental Consu	_	Signature:	the	A the	28423
	Test Hole #:			-			P.O. Box 1121					
Latitu	ude/Longitude:			-			elaware OH 430	/15	Phone#: <u>p</u>			.
	Method:	Pit Auger	r <u>X</u> Probe		Job Number:		22F301			soilcor	nsultant@ya	ahoo.com
					Soil Series:							
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Soil F	Profile		timating Soil Satura		4		Estimatin	ng Soil Permea	ability		,	
		Munser	ll Color (hue, value,		 	T	<u> </u>					
	Denth	Matuin	Kedoximorp	phic Features	 	Texture			Structure	T		
Horizon	Depth (inches)	Matrix Color	Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	Other Soil Features
Ар	0 to 8	10YR 4/3			sicl	30	5	2	m	gr	fr	
Bt1	8 to 16	10YR 5/6			sic	40	5	2	m	sbk	fi	
Bt2	16 to 26	10YR 5/4		5%10YR 5/2	sic	45	5	2	m	sbk	fi	
BC	26 to 30	10YR 5/4		10%10YR 5/1	1	25	8	1	m	sbk	fi	
Cd	30+	10YR 4/4		15%!0YR 5/1	1	20	10	0		m	vfi	
-	Limiting Conditions Depth (in)			Description				Rem	narks / Risk Fac	ctors:		
Perched Seasonal Water Table 16 perch			ched on glacail till	Surface water	r should be di	verted around s	ystem. Subsu	ırface ag drainag	ge may be pre	esent.		
Apparent Water Table >60												
Highly Permeable Material >60												
Bedrock		>60										
Restrictive Layer		30		glacial till								

County: Clark			Land	d Use / Vegetation:		Bean					**************************************	
To	ownship / Sec.:	Pleasa	ant		Landform:	·	Till Plain					
Property Ad	.ddress/Location:	Lot Splits Adj to 124	481 Silvers Road	Posi	ition on Landform:		Backslope				1.	
	-	South V	/ienna	_	Percent Slope:						11	CREPACS !!
Арј	plicant Name:	Bruner Land	Company	-	Shape of Slope:		Linear / Linear	:			1.55	the states of th
	Address:			. F	Bedrooms or GPD:		4					STEVENA MILLER
					Date:		nday, June 20, 2			I		CERTIFIED PROFESSIONAL
	Phone #:				Evaluator:		even Miller, CPS			V	103	0
	Lot #:						ronmental Consu	-	Signature:	the	A the	2842
	Test Hole #:						P.O. Box 1121					
Latitu	ude/Longitude:						elaware OH 430)15	Phone#: <u>p</u>			
	Method:	Pit Auger	er <u>X</u> Probe		Job Number:		22F301			soilcor	nsultant@ya	ahoo.com
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Horizon	Depth (inches)	Matrix Color	Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	Other Soil Features
Ар	0 to 8	10YR 4/3			sil	25	5	2	m	gr	fr	
Bt1	8 to 18	10YR 5/6		5%10YR 5/2	sicl	35	5	2	m	sbk	fi	
Bt2	18 to 30	10YR 5/4		10%10YR 5/2	sic	40	5	2	m	sbk	fi	
BC	30 to 34	10YR 5/4		15%10YR 5/2	1	20	8	1	m	sbk	fi	
Cd	34+	10YR 4/4		10%10yR 5/1	1	15	10	0		m	vfi	
Limiting	Limiting Conditions Depth (in)			Description				Rem	narks / Risk Fac	ctors:		
Perched Seasonal Water Table 8 perch			ched on glacail till	Surface wate	r should be di	verted around s	ystem. Subsu	ırface ag drainag	ge may be pre	esent.		
Apparent Water Table >60												
Highly Permeable Material >60												
Bedrock		>60		glacial till								
Restrictive Layer												

County: Clark			Land	d Use / Vegetation:		Bean						
Toy	wnship / Sec.:	Pleasa	ant		Landform:		Till Plain					
Property Ad	ddress/Location:	Lot Splits Adj to 12-	481 Silvers Road	Posi	ition on Landform:		Backslope				1.	
	-	South V	ienna		Percent Slope:		3 to 5%				11	CREPACS !!
Apr	plicant Name:	Bruner Land	Company	_	Shape of Slope:		Linear / Linear	c				and the second of
	Address:			F	Bedrooms or GPD:		4					STEVEN A MILLER
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	Phone #:				Evaluator:		even Miller, CPS			V	103	0
	Lot #:						onmental Consu		Signature:	Xle	A tan	28429
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	Method:	Pit Auger	er <u>X</u> Probe		Job Number:		22F301			<u>soilcor</u>	nsultant@ya	<u>ahoo.com</u>
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Soil P	Profile		timating Soil Satura				Estimatin	ng Soil Perme	ability			
		Munsel	ll Color (hue, value,	,	I							1
			Redoximorp	hic Features	 	Texture	<u> </u>		Structure		4 /	
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Ар	0 to 8	10YR 4/3			sicl	30	5	2	m	gr	fr	
Bt1	8 to 16	10YR 5/6			sic	40	5	2	m	sbk	fi	
Bt2	16 to 20	10YR 5/6		5%10YR 5/2	sic	40	5	2	m	sbk	fi	
BC	20 to 22	10YR 5/4		10%10yR 5/2	cl	30	8	1	m	sbk	fi	
Cd	22+	10YR 4/4		15%!0YR 5/2	1	20	10	0		m	vfi	
Limiting (Limiting Conditions Depth (in)			Description				Rem	narks / Risk Fac	ctors:		
Perched Seasonal Water Table 16 perch			hed on glacail till	Surface wate	r should be di	verted around s	system. Subsu	ırface ag drainag	ge may be pre	esent.		
Apparent Water Table >60												
Highly Permeable Material >60												
Bedrock		>60		glacial till								
Restrictive Layer												

County: Clark				Land	d Use / Vegetation:		Bean					* = = = · = · · · · · · · · · · · · · ·
Tov	wnship / Sec.:		ant		Landform:		Till Plain					· · · · · · · · · · · · · · · · · · ·
Property Ac	.ddress/Location:	Lot Splits Adj to 12-	481 Silvers Road	Posi	ition on Landform:		Backslope				1.	(a la la
	_	South V			Percent Slope:		3 to 5%				11	CREEPacs !!
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	Address:			F	Bedrooms or GPD:		4					STEVEN A MILLER
	-			_	Date:		nday, June 20, 2			,	1	CERTIFIED PROFESSIONAL
	Phone #:			-	Evaluator:		even Miller, CPS			V	103	OE
	Lot #:						conmental Consu	_	Signature:	XLP.	A la	28423
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	Method:	Pit Auger	r <u>X</u> Probe		Job Number:		22F301			<u>soilcor</u>	nsultant@ya	<u>ahoo.com</u>
					Soil Series:							
Soil P	Profile		timating Soil Satura		4		Estimatin	ng Soil Permea	ability			
		Munsel	ll Color (hue, value,		 							
ļ			Redoximorp	hic Features	 	Texture	T		Structure		4 /	
Horizon	Depth (inches)	Matrix Color	Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	Other Soil Features
Ар	0 to 9	10YR 4/3			sicl	30	5	2	m	gr	fr	
Bt1	9 to 16	10YR 5/6			sic	40	5	2	m	sbk	fi	
Bt2	16 to 19	10YR 5/6		10%!0YR 5/2	sic	45	5	2	m	sbk	fi	
BC	19 to 23	10YR 5/4		15%10YR 5/2	1	25	8	1	m	sbk	fi	
Cd	23+	10YR 4/4		10%10YR 5/2	1	20	10	0		m	vfi	
Limiting (Limiting Conditions Depth (in)			Description				Rem	narks / Risk Fac	ctors:		
Perched Seasonal Water Table 16 perch			ched on glacail till	Surface wate	r should be di	verted around s	system. Subsu	ırface ag drainag	ge may be pre	esent.		
Apparent Water Table >60												
Highly Permeable Material >60												
Bedrock >60												
Restrictive Layer		23		glacial till								

County: Clark			Land	d Use / Vegetation:		Bean						
Tov	wnship / Sec.:	Pleasa	ant		Landform:		Till Plain					
Property Ad	ddress/Location:	Lot Splits Adj to 12-	.481 Silvers Road	Posi	ition on Landform:		Backslope				1.	
	-	South V	ienna		Percent Slope:		10 to 11%				11	CREPACS !!
App	plicant Name:	Bruner Land	Company	_	Shape of Slope:		Linear / Linear	:				and the second of
	Address:			F	Bedrooms or GPD:		4					STEVEN A MILLER
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	Phone #:				Evaluator:		even Miller, CPS			V	103	0
	Lot #:						onmental Consu		Signature:	Xle	A tan	28429
		5					P.O. Box 1121			ww	V	
Latitud	ide/Longitude:						elaware OH 430)15	Phone#: <u>p</u>			
	Method:	Pit Auger	r <u>X</u> Probe		Job Number:		22F301			<u>soilcor</u>	nsultant@ya	<u>ahoo.com</u>
					Soil Series:							
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Soil P	Profile		imating Soil Satura				Estimatin	ng Soil Permea	ability			
ı		Munser	ll Color (hue, value,	,	 		<u> </u>					
			Redoximorp	hic Features	 	Texture			Structure	—	4 1	
Horizon	Depth (inches)	Matrix Color	Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	Other Soil Features
Ap	0 to 12	10YR 4/3			sicl	30	5	2	m	gr	fr	
Bt1	12 to 17	10YR 5/6			sic	40	5	2	m	sbk	fi	
Bt2	17 to 20	10YR 5/6		5%10YR 5/2	sic	40	5	2	m	sbk	fi	
BC	20 to 25	10YR 5/4		8%10YR 52	1	22	8	1	m	sbk	fi	
Cd	25+	10YR 4/4		10%10YR 5/2	1	20	10	0		m	vfi	
Limiting (Limiting Conditions Depth (in)			Description				Rem	narks / Risk Fac	ctors:		
Perched Seasonal Water Table 17 perche			ched on glacail till	Surface wate	r should be di	verted around s	ystem. Subsu	ırface ag drainag	ge may be pre	esent.		
Apparent Water Table >60												
Highly Permeable Material >60												
Bedrock		>60		glacial till								
Restrictive Layer												

County: Clark			Land	d Use / Vegetation:		Bean						
Tov	wnship / Sec.:	Pleasa	ant		Landform:		Till Plain				-	
Property Ac	.ddress/Location:	Lot Splits Adj to 12-	481 Silvers Road	Posi	ition on Landform:		Backslope				1	(a la la
	-	South V	ienna	_	Percent Slope:		10 to 11%				11	CREPACS \
Арј	plicant Name:	Bruner Land	Company	-	Shape of Slope:		Linear / Linear	r			1.55	the states
	Address:			. 1	Bedrooms or GPD:		4					STEVENA MILLER
					Date:		nday, June 20, 2			1	1	CERTIFIED PROFESSIONAL
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Latitud	ide/Longitude:			<u>i</u>			elaware OH 430)15	Phone#: p			
	Method:	PitAuger	er <u>X</u> Probe		Job Number:		22F301			solicor	nsultant@ya	<u>ahoo.com</u>
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Horizon	(inches)	Color	Concentrations	Depletions Class Approx. Approx. % % Clay Fragments Grade Size				Size	(shape)	Consistence	Other Soil Features	
Ар	0 to 8	10YR 4/3			sicl	32	5	2	m	gr	fr	
Bt1	8 to 12	10YR 5/6			sic	40	5	2	m	sbk	fi	
Bt2	12 to 23	10YR 5/6			sic	45	5	2	m	sbk	fi	
BC	23 to 26	10YR 5/4		5%10YR 5/2	1	25	8	1	m	sbk	fi	
Cd	26+	10YR 4/4		8%10YR 5/2	1	15	10	0		m	vfi	
-	Limiting Conditions Depth (in)			Description					narks / Risk Fac			
Perched Seasonal Water Table 23 perch			ched on glacail till	Surface wate	r should be di	verted around s	system. Subsu	ırface ag drainag	ge may be pre	esent.		
Apparent Water Table >60												
Highly Permeable Material >60												
Bedrock		>60		glacial till								
Restrictive Layer												

County: Clark			Land	d Use / Vegetation:		Bean					**************************************	
	ownship / Sec.:			_	Landform:		Till Plain					
Property Ac	.ddress/Location:	Lot Splits Adj to 124	.481 Silvers Road	Posi	ition on Landform:		Backslope				1 .	11
	-	South V			Percent Slope:		5 to 10%				11	CREPACS !!
App	plicant Name:	Bruner Land	Company		Shape of Slope:		Linear / Linear	ſ			1.55	and the second sec
	Address:			F	Bedrooms or GPD:		4					STEVEN A MILLER
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	Phone #:			_	Evaluator:	Ste	even Miller, CPS	SSc		V	103	OE
	Lot #:	7		-		Soil & Envir	ronmental Consu	ulting, Inc.	Signature:	Xle.	A tan	2842
	Test Hole #:			-			P.O. Box 1121			win	0000	
Latitu	ude/Longitude:			-			elaware OH 430)15	Phone#: p			
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			Redoximorp	phic Features	I	Texture	<u> </u>		Structure	,	4 /	
Horizon	Depth (inches)	Matrix Color	Concentrations	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	Other Soil Features	
Ap	0 to 8	10YR 4/3			sicl	30	5	2	m	gr	fr	
Bt1	8 to 19	10YR 5/6		5%10YR 5/2	sicl	35	5	2	m	sbk	fi	
Bt2	19 to 27	10YR 5/6		15%10Yr 5/2	sic	40	5	2	m	sbk	fi	
BC	27 to 30	10YR 5/4		20%10YR 5/2	1	25	8	1	m	sbk	fi	
Cd	30+	10YR 4/4		15%!0YR 5/2	1	15	10	0	1	m	vfi	
										1		
										1		
Limiting (Limiting Conditions Depth (in)			Description				Rem	arks / Risk Fac	ctors:		
	ched Seasonal Water Table 8 perc			ched on glacail till	Surface wate	r should be di	verted around s	system. Subsur	rface ag drainag	e may be pro	esent.	
	Apparent Water Table >60											
Highly Permeable Material >60												
Bedrock >60												
Restrictive Layer								-				

County: Clark			Land	d Use / Vegetation:		Bean					**************************************	
To	ownship / Sec.:	Pleasa	ant	_	Landform:		Till Plain					
Property Ac	ddress/Location:	Lot Splits Adj to 12	.481 Silvers Road	Posi	ition on Landform:		Backslope				1.	11
		South V		_	Percent Slope:						11	orcears .
App	oplicant Name:	Bruner Land	Company	-	Shape of Slope:		Linear / Linear	<u>. </u>			1	in the second of
	Address:			. F	Bedrooms or GPD:		4					STEVENA MILLER
					Date:		nday, June 20, 2			1		CERTIFIED PROFESSIONAL SOLE SCIENTIST J.S.
	Phone #:			-	Evaluator:		even Miller, CPS			V	103	0
	Lot #:			-			ronmental Consu	-	Signature:	Ale	A the	2842
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					Soil Series:							
6-91	D Cl.	- Eat	time Soil Sotur				E-time ti	Sell Derma	1.11.4.			
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	T			phic Features	l	Texture	T		Structure		·/	
	Depth	Matrix	Redoxiniorp		l	Approx.	Approx %			Type	-	
Horizon	(inches)	Color	Concentrations	Depletions	Class	% Clay	Approx. %TypeFragmentsGradeSize(shape)Consistence				Consistence	Other Soil Features
Ap	0 to 11	10YR 4/3			sil	25	5	2	m	gr	fr	
Bt1	11 to 15	10YR 5/4		5%10YR 5/3	sicl	35	5	2	m	sbk	fi	
Bt2	15 to 30	10YR 5/4		10%10YR 5/2	sic	40	5	2	m	sbk	fi	
BC	30 to 32	10YR 5/4		15%10YR 5/2	1	25	8	1	m	sbk	fi	
Cd	32+	10YR 4/4		12%10YR 5/1	1	20	10	0		m	vfi	
Limiting	Limiting Conditions Depth (in)			Description				Rem	narks / Risk Fac	ctors:		
Perched Seasonal Water Table 15 perch			ched on glacail till	Surface wate	r should be di	verted around s	ystem. Subsu	ırface ag drainag	ge may be pre	esent.		
Apparent Water Table >60												
Highly Permeable Material >60												
Bedrock		>60		glacial till								
Restrictive Layer												

	County:	Clar	'k	Land	Use / Vegetation:	:	Bean					**************************************
To	wnship / Sec.:	Pleas	ant	'	Landform:		Till Plain				1	
Property Ac	ddress/Location:	Lot Splits Adj to 12	481 Silvers Road	Posi	ition on Landform:		Backslope				1.	(a la la
	-	South V	ienna	'	Percent Slope:		5 to 8%				11	accoaces i
Арг	plicant Name:	Bruner Land	Company	'	Shape of Slope:		Linear / Linear				12	and the second sec
	Address:			Ē	Bedrooms or GPD:		4				1 1243	STEVEN A MILLER
	-			'	Date:	Moi	nday, June 20, 2	2022			1	CERTIFIED PROFESSIONAL /
	Phone #:			-	Evaluator:	Ste	even Miller, CPS	SSc		b	103	O SUE SCIENTIST
	Lot #:	_		_		Soil & Envir	conmental Cons	ulting, Inc.	Signature:	XP.	A la	28423
	Test Hole #:	<u> </u>		-			P.O. Box 1121			with	000-	
Latitu	de/Longitude:			_		De	elaware OH 430)15	Phone#: p			
	Method:	PitAuger	X Probe		Job Number:		22F301			<u>soilcor</u>	nsultant@ya	<u>ahoo.com</u>
					Soil Series:							
Soil P	Profile		imating Soil Satur				Estimatin	ng Soil Perme	ability			
	, 	Munsel	l Color (hue, value,				r					
			Redoximorp	phic Features		Texture			Structure		4	
Horizon	Depth (inches)	Matrix Color	Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	Other Soil Features
110112011	(inclica)		Concentrations	Depictions	Class	70 Clay	Tragmonto	Giauc	5120	(snape)	Consistence	Other Son reatures
Ар	0 to 8	10YR 3.5/3			sil	22	5	2	m	gr	fr	
Bt1	8 to 23	10YR 5/4		15%10YR 5/2	sicl	35	5	2	m	sbk	fi	
Bt2	23 to 34	10YR 5/4		20%10YR 5/2	sic	40	5	2	m	sbk	fi	
BC	34 to 38	10YR 5/4		30%10YR 5/2	1	25	8	1	m	sbk	fi	
С	38+	10YR 4/4		25%10YR 5/1	1	20	10	0		m	fi	
Limiting Conditions Depth (in)			Description				Rem	1 narks / Risk Fac	ctors:			
			ched on glacail till	Surface wate	r should be di	verted around s	ystem. Subsu	rface ag drainag	ge may be pre	esent.		
Apparent Water Table >60												
Highly Permeable Material >60												
Bedrock >60			glacial till									
Restrictive Layer												

County: Clark				Land	d Use / Vegetation:		Bean					* = = = · = · · · · · · · · · · · · · ·
To	ownship / Sec.:		ant		Landform:	:	Till Plain					· · · · · · · · · · · · · · · · · · ·
Property Ac	.ddress/Location:	Lot Splits Adj to 12-	481 Silvers Road	Posi	ition on Landform:		Backslope				1.	(a la la
		South V			Percent Slope:		5 to 8%				11	CREEPacs !!
Арј	plicant Name:	Bruner Land	Company	_	Shape of Slope:		Linear / Linear	c				and the second of the
	Address:			F	Bedrooms or GPD:		4					STEVEN A MILLER
	-				Date:		nday, June 20, 2			1	1	CERTIFIED PROFESSIONAL
	Phone #:				Evaluator:		even Miller, CPS			V	103	0
	Lot #:	10					ronmental Consu	-	Signature:	the	A the	28423
	Test Hole #:	<u> </u>	<u>, </u>				P.O. Box 1121					
Latitue	ude/Longitude:						elaware OH 430)15	Phone#: <u>p</u>			
	Method:	Pit Auger	x X Probe		Job Number:		22F301			soilcor	nsultant@ya	ahoo.com
					Soil Series:							
6-91	D (*)	- Eat	· Soil Sotu				E-ťť-	O. T. Derma	1.114			
Son r	Profile		timating Soil Satura Il Color (hue, value,				Estimatin	ng Soil Permea	ability			
	T			ohic Features	l	Texture	<u> </u>		Structure			
1	Depth	Matrix	Kuoninorp		l	Approx.	Approx. %			Туре	1 1	
Horizon	(inches)	Color	Concentrations	Depletions	Class	% Clay	Fragments	Grade	Size	(shape)	Consistence	Other Soil Features
Ар	0 to 8	10YR 3.5/3			sil	22	5	2	m	gr	fr	
Bt1	8 to 20	10YR 5/3		25%10YR 5/2	sicl	35	5	2	m	sbk	fi	
Bt2	20 to 35	10YR 5/4		30%10Yr 5/2	sic	40	5	2	m	sbk	fi	
BC	35 to 42	10YR 5/4		35%10yR 5/2	1	20	8	1	m	sbk	fi	
С	42+	10YR 4/4		30%10Yr 5/2	1	15	10	0		m	fi	
-	Limiting Conditions Depth (in)			Description					narks / Risk Fac			
			ched on glacail till	Surface wate	r should be di	verted around s	ystem. Subsu	ırface ag drainag	ge may be pre	esent.		
Apparent Water Table >60												
Highly Permeable Material >60												
Bedrock		>60										
Restrictive Layer		42		glacial till								

County: Clark			Land	d Use / Vegetation:		Bean					**************************************	
To	ownship / Sec.:	Pleas	ant		Landform:		Till Plain					
Property Ac	ddress/Location:	Lot Splits Adj to 12	481 Silvers Road	Posi	ition on Landform:		Backslope				1 .	(all))
	,	South V		-	Percent Slope:						11	CREPACS
App	oplicant Name:	Bruner Land	Company	-	Shape of Slope:		Linear / Linear	<u>:</u>			1 1.55	in the second of
	Address:			. F	Bedrooms or GPD:		4					STEVENA MILLER
					Date:		nday, June 20, 2			1	1	CERTIFIED PROFESSIONAL SOLE SCIENTIST J.S.
	Phone #:				Evaluator:		even Miller, CPS			V	103	0
	Lot #:						conmental Consu	-	Signature:	the	A the	2842
	Test Hole #:		1				P.O. Box 1121					
Latitu	ude/Longitude:						elaware OH 430)15	Phone#: p			
	Method:	PitAuger	er <u>X</u> Probe		Job Number:		22F301			solicon	nsultant@ya	<u>ahoo.com</u>
					Soil Series:							
6-91	D Cl.	- Fot	time ting Soil Sotur				Estimatio	Sell Demos	1.1114			
Soli r	Profile		timating Soil Satura Il Color (hue, value,				Estimatin	ng Soil Permea	ability			
	T			ohic Features		Texture	T		Structure		/	
	Depth	Matrix	Redoxiniorp			Approx.	Approx. %			Type	1 /	
Horizon	(inches)	Color	Concentrations	Depletions	Class	% Clay	Fragments	Grade	Type Size (shape) Consistence			Other Soil Features
Ap	0 to 8	10RY 3/3			sil	22	5	2	m	gr	fr	
Bt1	8 to 25	10YR 5/3		35%10YR 5/2	sicl	32	5	2	m	sbk	fi	
Bt2	25 to 40	10Yr 5/3		40%10YR 5/2	sicl	36	8	2	m	sbk	fi	
BC	40 to 46	10YR 5/4		30%10YR 5/2	1	20	10	1	m	sbk	fi	
С	46+	10YR 4/4		25%10Yr 5/2	gr l	15	15	0		m	fi	
Limiting	Limiting Conditions Depth (in)			Description				Rem	narks / Risk Fac	ctors:		
Perched Seasonal Water Table 8 perche			ched on glacail till	Surface wate	r should be di	verted around s	ystem. Subsu	rface ag drainag	ge may be pre	esent.		
Apparent Water Table >60												
Highly Permeable Material >60												
Bedrock		>60		glacial till								
Restrictive Layer												

	County:	Clar	εk	Land	Use / Vegetation:	:	Bean					**************************************
Toy	wnship / Sec.:	Pleas	ant		Landform:		Till Plain				1	
Property Ac	ddress/Location:	Lot Splits Adj to 12	481 Silvers Road	Posi	ition on Landform:		Backslope				1.	(a la la
	-	South V	ienna		Percent Slope:		6.0%				: :	arcpacs \
Арј	plicant Name:	Bruner Land	Company	_	Shape of Slope:		Linear / Linear					and the second
	Address:			F	Bedrooms or GPD:		4					STEVENA MILLER
	_				Date:	Mor	nday, June 20, 2	2022			1	CERTIFIED PROFESSIONAL IN
	Phone #:				Evaluator:	Ste	even Miller, CPS	SSc		V	103	OE
	Lot #:					Soil & Envir	conmental Const	ulting, Inc.	Signature:	XP	A lan	28423
	Test Hole #:	12	2				P.O. Box 1121			with	000-	
Latitu	de/Longitude:					De	elaware OH 430)15	Phone#: p			
	Method:	PitAuger	r <u>X</u> Probe		Job Number:		22F301			<u>soilcor</u>	nsultant@ya	<u>ahoo.com</u>
					Soil Series:							
Soil P	Profile		imating Soil Satur				Estimatin	ng Soil Perme	ability			
		Munsel	ll Color (hue, value,									
ļ			Redoximorp	ohic Features		Texture			Structure		1 1	
	Depth	Matrix			~.	Approx.	Approx. %	~ 1		Туре	~	
Horizon	(inches)	Color	Concentrations	Depletions	Class	% Clay	Fragments	Grade	Size	(shape)	Consistence	Other Soil Features
Ар	0 to 8	10RY 3/3			sil	22	5	2	m	gr	fr	
Bt1	8 to 21	10YR 5/3		40%10Yr 5/2	sicl	34	5	2	m	sbk	fi	
Bt2	21 to 38	10YR 5/4		45%10YR 5/2	sicl	36	8	2	m	sbk	fi	
BC	38 to 43	10YR 5/3		35%10YR 5/2	1	22	10	1	m	sbk	fi	
С	43+	10YR 4/3		30%10YR 5/2	gr l	15	15	0		m	fi	
	<u> </u>	-										
	<u> </u>									+		
			Description					narks / Risk Fac				
				ched on glacail till	Surface wate	r should be di	verted around s	ystem. Subsu	irface ag drainag	ge may be pre	esent.	
Apparent Water Table >60												
Highly Permeable Material >60												
Bedrock >60			glacial till									
Restrictive Layer												

	County:	Clar	rk	Land	d Use / Vegetation:	:	Bean					**************************************
To	ownship / Sec.:	Pleasa	ant		Landform:	·	Till Plain					
Property Ac	.ddress/Location:	Lot Splits Adj to 124	481 Silvers Road	Posi	ition on Landform:	:	Backslope				1.	
	-	South V		Percent Slope: 4 to 5%					11	CREPACS !!!		
Арј	plicant Name:	Bruner Land	i Company	-	Shape of Slope:		Linear / Linear	:			1.55	the states of th
	Address:			- F	Bedrooms or GPD:		4					STEVENA MILLER
				-	Date:		nday, June 20, 2			T		CERTIFIED PROFESSIONAL
	Phone #:			-	Evaluator:		even Miller, CPS			V	103	0
	Lot #:			-			ronmental Consu	_	Signature:	Ale	A the	2842
	Test Hole #:		<u>é</u>	-			P.O. Box 1121					
Latitue	ude/Longitude:			-			elaware OH 430)15	Phone#: p			
	Method:	Pit Auger	er <u>X</u> Probe		Job Number:		22F301			soilcor	nsultant@ya	ahoo.com
					Soil Series:							
								3.8.8				
Soll P	Profile		timating Soil Satura		4		Estimatin	ng Soil Perme	ability		/	
		Munser	ll Color (hue, value,		 	Tautuna			Stanotina		!	
I	Denth	Matuin	Kedoximorp	phic Features	 	Texture	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Structure	T	4 /	
Horizon	Depth (inches)	Matrix Color	Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	Other Soil Features
Ap	0 to 8	10RY 3/3			sil	22	5	2	m	gr	fr	
Bt1	8 to 12	10YR 5/6			sicl	35	5	2	m	sbk	fi	
Bt2	12 to 21	10YR 5/4		15%10RY 5/2	sic	40	8	2	m	sbk	fi	
BC	21 to 24	10YR 5/4		20%10YR 5/2	1	25	10	1	m	sbk	fi	
С	24+	10YR 4/4		15%10YR 5/2	gr l	15	15	0		m	fi	
Limiting (Conditions	Depth (in	1)	Description				Rem	narks / Risk Fac	ctors:		
Perched Seasonal		12	perc	ched on glacail till	Surface wate	r should be dr	verted around s	ystem. Subsu	ırface ag drainag	ge may be pr	esent.	
Apparent Water T		>60										
Highly Permeable	• Material	>60										
Bedrock		>60										
Restrictive Layer		24		glacial till								

	County:	Clar	ιk	Land Use / Vegetation: Bean					**************************************			
Toy	wnship / Sec.:	Pleasa	ant		Landform:		Till Plain				1	
Property Ac	ddress/Location:	Lot Splits Adj to 124	.481 Silvers Road	Posi	ition on Landform:		Backslope				1.	(a la la
		South V	ienna	_	Percent Slope:	Percent Slope: 4 to 5%				11	arcpacs \	
Арј	plicant Name:	Bruner Land	Company	_	Shape of Slope:		Linear / Linear	:			15	
	Address:			F	Bedrooms or GPD:		4					STEVEN A MILLER
	-			_	Date:		nday, June 20, 2				1	CERTIFIED PROFESSIONAL
	Phone #:			_	Evaluator:		even Miller, CPS			V	103	OE
	Lot #:			-			conmental Consu	-	Signature:	Xle	A la	28423
	Test Hole #:		<u>}</u>	-			P.O. Box 1121			win	0	
Latitud	ide/Longitude:			-			elaware OH 430)15	Phone#: <u>p</u>			
	Method:	Pit Auger	r <u>X</u> Probe		Job Number:		22F301			<u>soilcor</u>	nsultant@ya	<u>ahoo.com</u>
					Soil Series:							
Soil P	Profile		timating Soil Satur				Estimatin	ng Soil Permea	ability			
		Munsel	ll Color (hue, value,				r					
, I			Redoximorp	phic Features	l	Texture	1. 0/		Structure			
Horizon	Depth (inches)	Matrix Color	Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	Other Soil Features
Ар	0 to 8	10YR 4/3			sil	22	5	2	m	gr	fr	
Bt1	8 to 15	10YR 5/4		10%10YR 5/2	sicl	30	5	2	m	sbk	fi	
Bt2	15 to 27	10YR 5/4		20%10YR 5/2	sicl	35	8	2	m	sbk	fi	
BC	27 to 30	10YR 5/4		25%10YR 5/2	1	20	12	1	m	sbk	fi	
С	30+	10YR 4/4		20%10yR 5/2	gr l	15	15	0		m	fi	
Limiting (Conditions	Depth (in	1)	Description				Rem	1arks / Risk Fac	ctors:		
Perched Seasonal		8	perc	ched on glacail till	Surface wate	r should be di	verted around s	ystem. Subsu	rface ag drainag	ge may be pro	esent.	
Apparent Water T		>60										
Highly Permeable	Material	>60										
Bedrock		>60										
Restrictive Layer		30		glacial till								

	County:	Clar	<i>i</i> k	Land Use / Vegetation: Bean					* = = = · = · · · · · · · · · · · · · ·			
Tov	wnship / Sec.:		ant		Landform:		Till Plain					· · · · · · · · · · · · · · · · · · ·
Property Ac	ddress/Location:	Lot Splits Adj to 12-	.481 Silvers Road	Posi	ition on Landform:		Backslope				1.	(a la la
	-	South V				Percent Slope: 5 to 8%				11	CREEPacs !!	
Арј	plicant Name:	Bruner Land	Company		Shape of Slope:		Linear / Linear	1				and the second of the
	Address:			F	Bedrooms or GPD:		4					STEVEN A MILLER
				_	Date:		nday, June 20, 2				1	CERTIFIED PROFESSIONAL
	Phone #:			-	Evaluator:		even Miller, CPS			V	103	O E
	Lot #:						ronmental Consu	-	Signature:	Xle	A la	28423
	Test Hole #:		,				P.O. Box 1121			L'UM	0	
Latitud	ide/Longitude:						elaware OH 430)15	Phone#: p			
	Method:	Pit Auger	x <u>X</u> Probe		Job Number:		22F301			<u>soilcor</u>	nsultant@ya	<u>ahoo.com</u>
					Soil Series:							
<u> </u>					1		B 4 4	2.0.0				
Son P	Profile		imating Soil Satura		4		Estimatin	ng Soil Permea	ability			
	T	Munser	ll Color (hue, value, Redoximorp		 	Texture	——		Ctanatura			
1	Donth	Moteria	Redoximorp	hic Features	 		1 A		Structure	Trme	1 /	
Horizon	Depth (inches)	Matrix Color	Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	Other Soil Features
Ар	0 to 7	10YR 4/3			sil	25	5	2	m	gr	fr	
Bt1	7 to 15	10YR 5/6			sic	40	5	2	m	sbk	fi	
Bt2	15 to 22	10YR 5/4		10%10YR 5/2	sic	42	8	2	m	sbk	fi	
BC	22 to 26	10YR 5/4		15%10yr 5/2	1	25	12	1	m	sbk	fi	
С	26+	10YR 4/4		10%10YR 5/2	gr l	15	15	0		m	fi	
Limiting (Conditions	Depth (in	1)	Description				Rem	narks / Risk Fac	ctors:		
Perched Seasonal		15	perc	ched on glacail till	Surface wate	r should be di	verted around s	system. Subsu	irface ag drainag	ge may be pro	esent.	
Apparent Water T		>60										
Highly Permeable	Material	>60										
Bedrock		>60										
Restrictive Layer		26		glacial till								

	County:	Clar	.k	Land	d Use / Vegetation:		Bean					
Toy	wnship / Sec.:	Pleasa	ant	Landform: Till Plain								
Property Ad	ddress/Location:	Lot Splits Adj to 12-	.481 Silvers Road	Posi	ition on Landform:						1.	(a la la
	-	South V		_	Percent Slope: 5 to 8%				11	CREPACS !!!		
Apr	plicant Name:	Bruner Land	Company	_	Shape of Slope:		Linear / Linear	1			1 150	States States
	Address:			_ F	Bedrooms or GPD:		4					STEVENA MILLER
				-	Date:		nday, June 20, 2			1	1	CERTIFIED PROFESSIONAL
	Phone #:			-	Evaluator:		even Miller, CPS			V	103	0
	Lot #:	16		-			conmental Consu		Signature:	the	A the	2842
			<u>,</u>	-			P.O. Box 1121					
Latituc	ide/Longitude:			-			elaware OH 430)15	Phone#: <u>p</u>			
	Method:	PitAuger	r <u>X</u> Probe		Job Number:		22F301			solicon	<u>nsultant@ya</u>	<u>ahoo.com</u>
					Soil Series:							
6 9 I							.	0. U.D.				
Soll P	Profile		imating Soil Satura Il Color (hue, value,		4		Estimatin	ng Soil Perme	ability			
1		WIUIISCI		e, chroma) phic Features	I	Texture		·	Strature			
	Donth	Motein	Redoximorp	hic Features	 	1	1 A 0/		Structure	Trme	1 /	
Horizon	Depth (inches)	Matrix Color	Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	Other Soil Features
Ар	0 to 8	10YR 4/3			sil	25	5	2	m	gr	fr	
Bt1	8t o 12	10YR 5/6			sic	40	5	2	m	sbk	fi	
Bt2	12 to 24	10YR 5/4		15%!0YR 5/2	sic	42	10	2	m	sbk	fi	
BC	24 to 29	10YR 5/4		20%10YR 5/2	1	22	12	1	m	sbk	fi	
С	29+	10YR 4/4		15%10YR 5/2	gr l	15	15	0		m	fi	
Limiting (Conditions	Depth (in	ı)	Description				Rem	narks / Risk Fac	:tors:		
Perched Seasonal		12	perc	ched on glacail till	Surface wate	r should be di	verted around s	system. Subsu	ırface ag drainag	ge may be pre	esent.	
Apparent Water Ta		>60										
Highly Permeable	Material	>60										
Bedrock		>60										
Restrictive Layer		29		glacial till								

Landforms
Upland*
Terrace
Flood Plain
Lake Pain
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
0	Predominantly organic matter (litter &	а	Highly decomposed organic matter	
	humus)	b	Buried genetic horizon	Numerical Prefixes: Used to denote
А	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	
	matter	i	Slightly decomposed organic matter	Numerical Suffixes: Used to denote
В	Subsurface accumulation of clay, Fe, Al, Si,	р	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	
С		w	Weak color or structure within B	
	Little or no pedogenic alteration,	х	Fragipan characteristics	
	unconsoilidated earthy material, soft bedrock		·	
R	Hard bedrock			
L				

Soil Texture								
Texture Class Abbreviation	ons		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	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 cl	ay perc	cei	ntage within 5 percent					

Soil Structure										
Grade		Size		Type (Shap	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.