Dena L. Anderson
Professional Soil
Scientist
IRSS #90
IAPSC-CPSC #49

(812) 591-3770 (812) 525-6433

Assistance Request Information for On-Site Septic Tank Absorption Field Sewage Disposal System

Person(s) requesting
Kevin Presnell c/o Farm Flex Capital
PO Box 123
Morgantown, IN 46160
Telephone number
317 752 - 6880
Name of owner
Site location
14797 N State Road 156, Patriot, IN 47038
Legal land description
SW ¼ of the NW ¼ section 25, T. 3 N. and R. 1 W.
Parcel ID
78-02-25-200-010.000-006
Soil survey Switzerland
Atlas sheet 7

Date of assistance

6/19/24

Site geology
Loess over Ordovician bedrock residuum

Purpose of assistance

Residential Septic Evaluation

Number of bedrooms 3

Persons present during investigation

Dena L. Anderson, Kevin Presnell, Joe Parham

Stage of development

Preliminary to rezoning and new construction

Location of well or water source

Rural water is the source for these building lots

Comments

This report contains preliminary investigations for lot sizing and feasibility. One small backhoe pit was conducted in the river front lots in the area most likely to support a septic system. The ridge lots were hand auger/push probe evaluated. Upon sale and prior to home construction a full site evaluation will be needed to meet state septic system evaluation minimums and to accommodate furture home placement

Given my present expertise of Soil Science, Soil Genesis, Soil Morphology, Glacial Geology, and Geomorphology in accordance with Federal, State, and Local regulations in addition to the information provided to me by the client, landowner, real estate agent, or county sanitarian, I <u>Dena L. Anderson</u> certify, to the best of my knowledge, that the information contained in this report is complete and accurate. The results of this on-site soil investigation reflect the soil properties, genesis, landscape evolution, and chemical data of the indicated boring locations. Investigations in other areas will reflect different results. This report does not pertain if there are any changes or alterations as a result of grading, filling, compacting, or any other disturbances that would otherwise destroy the soil properties described at the time this on-site investigation was completed. Duplication or alteration of this report by any party other than Glacier's Edge Soil Consulting renders this report invalid. This report is not valid unless signed by **Dena L. Anderson.**

/s/ Dena L. Anderson

1/10

Dena L. Anderson
Professional Soil Scientist
IRSS - #90 IAPSC - CPSC #49

Dena L. Anderson
Professional Soil
Scientist
IRSS #90
IAPSC-CPSC #49

BORII	NG #:	1 D	ESCRIPTION	OF BORIN	NG LOCA	ATION:		S	mall backho	e pit near cen	ter of the p	roposed lot	
Upland X	Terra	ace Out	twash Plain	Ridge Top	Upper '	1/3	Middle	Lowe	-	thole Dep	ression	Broad Flat	Flood Plain
	or Floodin	g: NO	% Slope	8 As	spect	N	Family C	lassificatio		Fine, illi	tic, mesic Typi	ic Hapludalfs	
< 0.25 gp	od/ft ² > 1.	20 gpd/ft ²	Seasonal High		Fragip	oan	Glacial Ti			ssive Clay	Poor Filter	0	ther
Vegetatio	on at site:	Idle/scatter	+60'	sturbance?	NO	Soil Seri	ies mapped		60" Pate	Soil Seri	es of Boring:	Pa	te
							OIL PROP						
DEPTH		SOIL COL	OR	TEXTURE	STRUCT		CONSIS-	ROOTS	EFFERVES-	PARENT	%	ОТН	IER
(IN)	MATRIX	MOTTLES	COATINGS	USDA	USD	A	TANCY		CENCE	MATERIAL	CLAY	İ	
0 – 7 A	10YR 4/2			Silt loam	Moder medit granu	ım	Friable	Many		Loess/Colluvi	um 24	3% channers	
7 – 38 2Bt1	10YR 5/4		10YR 5/3 Clay	Silty clay loam	Moder fine a mediu subang block	nd um jular	Firm	Many to few in the lower part		Limestone Colluvium		5% channers	
38 – 60 3Bt2	2.5Y 5/3		10YR 4/2 Clay	Silty clay	Wea medit subang block	ım Jular	Firm	Few		Shale residu	um 52	8% channers	

Dena L. Anderson
Professional Soil
Scientist
IRSS #90
IAPSC-CPSC #49

Upland X	d Terra	ace Ou	twash Plain	Ridge Top	Upper 1/3	Middle	Lowe		hole Depress	ion	Broad Flat	Flood Plain
	g or Floodin): NO	% Slope	8 As	spect N	Family C	lassification		Fine, illitic, n	nesic Typic	Hapludalfs	
< 0.25 gp	od/ft ² > 1.	20 gpd/ft ²	Seasonal High		Fragipan	Glacial Ti			ssive Clay Po	or Filter	Ot	her
Vegetation	on at site:	Idle/scatte	+60 red trees	isturbance?	NO Soil S	eries mapped		60" Pate	Soil Series of	f Boring:	Pa	te
						SOIL PROP	ERTIES					
DEPTH		SOIL COL	OR	TEXTURE	STRUCTURE	CONSIS-	ROOTS	EFFERVES-	PARENT	%	ОТН	IER
(IN)	MATRIX	MOTTLES	COATINGS	USDA	USDA	TANCY		CENCE	MATERIAL	CLAY		
0 – 6 A	10YR 4/2			Silt loam	Moderate medium granular	Friable	Many		Loess/Colluvium	24	3% channers	
6 – 41 2Bt1	10YR 5/4		10YR 5/3 Clay	Silty clay loam	Moderate fine and medium subangular blocky	Firm	Many to few in the lower part		Limestone/ Colluvium	30	5% channers	
41 – 60+ 3Bt2	2.5Y 6/4		10YR 6/3 Clay	Silty clay	Weak medium subangular blocky	Firm	Few		Shale residuum	56	8% channers	

BORING	#: 3	DESCRIPTION	N OF BORIN	G LOCATION	ON:	Small backhoe pit near center of the proposed lot								
Upland	nd Terrace Outwash Plain Ridge Top Upper 1/3		Middle	Lower 1/3	Pothole	Depression	Broad Flat	Flood Plain						

Dena L. Anderson
Professional Soil
Scientist
IRSS #90
IAPSC-CPSC #49

X Ponding	or Flooding	: NO	% Slope	7 As	spect N	Family CI	assification			 Fine ill	litic mesic	Typic	: Hapludalfs	
< 0.25 gr		20 gpd/ft ²	Seasonal High \ +58'	Water Table	Fragipan	Glacial Till	Be	drock 58"	Mas	sive Clay	Poor Fi			ner
Vegetatio	on at site:	Idle/scatter	red trees Di	sturbance?	NO Soil S	eries mapped:		Pate		Soil Sei	ries of Bor	ing:	Pat	е
					S	OIL PROPE	RTIES							
DEPTH		SOIL COL	OR	TEXTURE	STRUCTURE	CONSIS-	ROOTS	EFFER	VES-	PARENT		%	ОТН	ER
(IN)	MATRIX	MOTTLES	COATINGS	USDA	USDA	TANCY		CEN	CE	MATERIA	L C	LAY		
0 – 4 A	10YR 4/2			Silt loam	Moderate medium granular	Friable	Many			Loess/Colluv	/ium	24	3% channers	
4 – 28 2Bt1	10YR 5/4		10YR 5/3 Clay	Silty clay loam	Moderate fine and medium subangular blocky	Firm	Many to few in the lower part			Limeston Colluviun		30	5% channers	
28 – 48 3Bt2	2.5Y 5/4		10YR 5/3 Clay	Silty clay	Weak medium subangular blocky	Firm	Few			Shale residu Colluviun		47	8% channers	
48 – 58+ 3Bt3	2.5Y 6/4		10YR 6/3 Clay	Channery Silty clay	Weak medium subangular blocky	Firm				Shale residu Colluvium		56	28% channers	

BORING	#: 4	DESCRIPTION	ON OF BORIN	G LOCATION										
Upland	Terrace	Outwash Plain	Ridge Top	Upper 1/3	Middle	Middle Lower 1/3 Pothole Depression Broad Flat Flood Pl								
Х						X								

Dena L. Anderson
Professional Soil
Scientist
IRSS #90
IAPSC-CPSC #49

Ponding	or Floodin	g: NO	% Slope	7 As	spect N	Family Cl	lassification	on:	Fine, i	Illitic, mesic Ty	pic Hapludalfs	
< 0.25 gp	od/ft ² > 1.	20 gpd/ft ²	Seasonal High		Fragipan	Glacial Til			assive Clay	Poor Filter	Ot	her
Vegetatio	on at site:	Idle/scatter	+60°	sturbance?	NO Soil S	eries mapped:		58" Pate	Soil Se	eries of Boring	Par	to
vegetatio	on at site.	idie/3catter	ed trees	starbance:				1 ate	0011 00	siles of Bornig	1 0	
					S	OIL PROPE	ERTIES					
DEPTH		SOIL COL	OR	TEXTURE	STRUCTURE	CONSIS-	ROOTS	EFFERVES-	PARENT	Г %	ОТН	ER
(IN)	MATRIX	MOTTLES	COATINGS	USDA	USDA	TANCY		CENCE	MATERIA	AL CLAY	•	
0 – 4 A	10YR 5/3			Silt loam	Moderate medium granular	Friable	Many		Loess/Collu	ıvium 24	3% channers	
4 – 9 2Bt1	10YR 5/4	10YR 6/6	10YR 5/3 Clay	Silty clay loam	Moderate fine and medium subangular blocky	Firm	Many		Limestor Colluviu		5% channers	
9 – 28 2Bt2	2.5Y 5/4	10YR 6/6	10YR 5/3 Clay	Silty clay loam	Weak medium subangular blocky	Firm	Many to few in the lower part		Shale resid Colluviu		8% channers	
28 – 58+ 3Bt3	2.5Y 5/4	10YR 6/6	10YR 6/1 Clay	Silty clay	Weak medium subangular blocky	Firm	·		Shale resid	luum 56	7% channers	

BORING	#: 5	DESCRIPTI	ON OF BORIN	G LOCATIO	DN:	Small b	ackhoe pit nea	r center of the pro	posed lot
Upland	Terrace	Outwash Plain	Ridge Top	Upper 1/3	Middle	Lower 1/3	Pothole	Depression	Broad Flat Flood Plain
Х						X			
Ponding or	Flooding:	NO % Slope	7 As	oect N	Family Class	ssification:	Fi	ne, illitic, mesic Typic	Hapludalfs
< 0.25 gpd/ft	< 0.25 gpd/ft ² > 1.20 gpd/ft ²		gh Water Table	Fragipan	Glacial Till	Bedrock	Massive Clay	Poor Filter	Other

Dena L. Anderson
Professional Soil
Scientist
IRSS #90
IAPSC-CPSC #49

			+60"					60"			Slickens	
Vegetation	on at site:	Idle/scattered	d trees Dis	sturbance?	NO Soil S	eries mapped	:	Pate	Soil Series of	Boring:	Pat	e
					S	OIL PROP	ERTIES					
DEPTH		SOIL COLO	R	TEXTURE	STRUCTURE	CONSIS-	ROOTS	EFFERVES-	PARENT	%	ОТНІ	ER
(IN)	MATRIX	MOTTLES	COATINGS	USDA	USDA	TANCY		CENCE	MATERIAL	CLAY		
0 – 10 A1	10YR 5/3			Silty clay loam	Moderate medium granular	Friable	Many		Loess/Colluvium	28	1% channers	
10 – 15 A2	2.5Y 4/2			Silty clay loam	Moderate medium angular blocky	Firm	Many		Loess/Colluvium	32	3% channers	
15 – 20 Bt1	2.5Y 5/3		10YR 5/4 Clay	Silty clay loam	Moderate fine and medium subangular blocky	Firm	Many to few in the lower part		Loess/Colluvium	38	3% channers	
20 – 33 Bt3	7.5YR 4/3		10YR 4/2 Clay	Silty clay loam	Moderate medium subangular blocky	Firm	Few		Loess/Colluvium	38	3% channers	
33 – 48 2Bt4	2.5Y 5/3		10YR 4/4 Clay	Silty clay	Moderate medium subangular blocky	Firm			Shale residuum	56	7% channers	
48 – 60 2Btss	2.5Y 5/6	10YR 6/6	10YR 6/1 Clay	Silty clay	Weak medium angular blocky	Firm			Shale residuum	58	5% channers	

BORING	#: 6		DESCRIPTI	ON OF BORI	NG LOCATION	ON:	Small b	ackhoe pit near	center of the pro	posed lot		
Upland	Terrace	0	utwash Plain	Ridge Top	Upper 1/3	Middle	Lower 1/3	Pothole	Depression E	Broad Flat	Flood Plain	
Х							Χ					
Ponding or	Flooding:	NO	% Slope	7	spect N	Family Class	Family Classification: Fine, illitic, mesic Typic Hapludalfs					
< 0.25 gpd/ft	< 0.25 gpd/ft ² > 1.20 gpd/ft			Seasonal High Water Table		Glacial Till	Bedrock	Massive Clay	Poor Filter	Other		
			+	60"			+60"			Slickens	ides 41"	

Dena L. Anderson
Professional Soil
Scientist
IRSS #90
IAPSC-CPSC #49

Vegetatio	on at site:	Idle/scattere	d trees Dis	sturbance?	NO Soil So	eries mapped	:	Pate	Soil Series of	Boring:	Pate)
					S	OIL PROP	ERTIES					
DEPTH		SOIL COLO	R	TEXTURE	STRUCTURE	CONSIS-	ROOTS	EFFERVES-	PARENT	%	OTHE	R
(IN)	MATRIX	MOTTLES	COATINGS	USDA	USDA	TANCY		CENCE	MATERIAL	CLAY		
0 – 6 A1	10YR 4/2			Silt loam	Moderate medium granular	Friable	Many		Loess/Colluvium	25	1% channers	
6 – 11 A2	2.5Y 5/1			Silty clay loam	Moderate fine and medium subangular blocky	Firm	Many		Loess/Colluvium	32	3% channers	
11 – 41 Bt1	2.5Y 6/4		10YR 5/4 Clay	Silty clay	Moderate medium subangular blocky	Firm	Many to few in the lower part		Loess/Colluvium	45	9% channers	
41 – 60 2Btss	2.5Y 5/6	10YR 6/6	10YR 6/1 Clay	Silty clay	Weak medium angular blocky	Firm	·		Shale residuum	58	14% channers	

BORING	#: 7		DESCRIPTION	ON OF BORIN	G LOCA	TION:		Small ba	ackhoe pit	near d	center of the p	roposed lot	
Upland	Terrace	C	Outwash Plain	Ridge Top	Upper 1/3	3 I	Middle	Lower 1/3	Pothole		Depression	Broad Flat	Flood Plain
Х	X							Х					
Ponding or	Flooding:	NO	% Slope	7 Aspect N			Family Clas	ssification:		Fine	ic Hapludalfs		
< 0.25 gpd/ft ²	< 0.25 gpd/ft ² > 1.20 gpd/ft ²		Seasonal High Water Table		Fragipan		Glacial Till	Bedrock	Massive (Clay	Poor Filter	(Other
	5, 5,		+(60"				+60"				Slickensides 46"	
Vegetation at	site: Idle	/scatt	ered trees	Disturbance?	NO S	oil Series	s mapped:	Pat	е	Soil	Series of Boring:	P	ate

Dena L. Anderson
Professional Soil
Scientist
IRSS #90
IAPSC-CPSC #49

					S	OIL PROP	ERTIES				
DEPTH		SOIL COLO	R	TEXTURE	STRUCTURE	CONSIS-	ROOTS	EFFERVES-	PARENT	%	OTHER
(IN)	MATRIX	MOTTLES	COATINGS	USDA	USDA	TANCY		CENCE	MATERIAL	CLAY	
0 – 5 A1	10YR 4/2			Silty clay loam	Moderate medium angular blocky	Friable	Many		Loess/Colluvium	28	1% channers
5 – 13 A2	10YR 5/4			Silty clay loam	Weak medium subangular blocky	Firm	Many		Loess/Colluvium	32	3% channers
13 – 33 Bt1	10YR 5/4		10YR 6/3 Clay	Silty clay loam	Moderate medium subangular blocky	Firm	Many to few in the lower part		Loess/Colluvium	36	3% channers
33 – 46 Bt2	10YR 5/4		10YR 6/3 Clay	Silty clay loam	Weak medium subangular blocky	Firm	Few		Loess/Colluvium	38	3% channers
46 – 60 2Btss	2.5Y 5/4	10YR 6/6	10YR 6/3 Clay	Silty clay	Weak medium angular blocky	Firm			Shale residuum	59	5% channers

BORING	#: 8		DESCRIPTION	ON OF BORIN	G LOCATION	ON:	Small ba	ackhoe pit near o	center of the pro	oposed lot
Upland	Terrace	0	utwash Plain	Ridge Top	Upper 1/3	Middle	Lower 1/3	Pothole	Depression	Broad Flat Flood Plain
X							Х			
Ponding or I	Flooding:	NO	% Slope	8 As	pect N	Family Clas	ssification:	Fine	, illitic, mesic Typic	: Hapludalfs
< 0.25 gpd/ft ²	> 1.20 gp	d/ft²	Seasonal Hig	h Water Table	Fragipan	Glacial Till	Bedrock	Massive Clay	Poor Filter	Other
			+(60"			+60"			Slickensides 42"
Vegetation at	site: Idle	scatt	ered trees	Disturbance?	NO Soil	Series mapped:	Pat	e Soil	Series of Boring:	Pate

Dena L. Anderson
Professional Soil
Scientist
IRSS #90
IAPSC-CPSC #49

					S	OIL PROP	ERTIES				
DEPTH		SOIL COLO	R	TEXTURE	STRUCTURE	CONSIS-	ROOTS	EFFERVES-	PARENT	%	OTHER
(IN)	MATRIX	MOTTLES	COATINGS	USDA	USDA	TANCY		CENCE	MATERIAL	CLAY	
0 – 5 A1	10YR 4/2			Silt loam	Moderate medium granular	Friable	Many		Loess/Colluvium	25	1% channers
5 – 16 A2	7.5YR 5/4			Silty clay loam	Moderate medium subangular blocky	Firm	Many		Loess/Colluvium	30	3% channers
16 – 32 Bt1	10YR 5/3		10YR 4/3 Clay	Silty clay loam	Moderate medium subangular blocky	Firm	Many to few in the lower part		Loess/Colluvium	38	3% channers
32 – 42 Bt2	10YR 5/4		10YR 5/3 Clay	Silty clay loam	Weak medium subangular blocky	Firm	Few		Loess/Colluvium	38	3% channers
42 – 60+ 2Btss	2.5Y 5/4	10YR 6/6	10YR 6/1 Clay	Silty clay	Weak medium angular blocky	Firm			Shale residuum	60	5% channers

BORING: Upland	Terrace		utwash Plain	ON OF BORIN Ridge Top	Upper 1/3	Middle	Lower 1/3	Pothole	old brick home a	Broad Flat	Flood Plain
X							Х				
Ponding or I	Flooding:	NO	% Slope	8 As	pect N	Family Cla	ssification:		Fine, illitic, mesic Ty	pic Hapludalfs	
< 0.25 gpd/ft ²	2 > 1.20 g _l	od/ft²	Seasonal Hig	h Water Table	Fragipan	Glacial Till	Bedrock	Massive CI	ay Poor Filter	. (Other
			+(60"			+60"			Slicke	nsides 47"
Vegetation at	: site: Idle	/scatt	ered trees	Disturbance?	NO Soi	il Series mapped:	Pat	te	Soil Series of Boring	una	amed

Dena L. Anderson
Professional Soil
Scientist
IRSS #90
IAPSC-CPSC #49

					S	OIL PROP	ERTIES					
DEPTH		SOIL COLO	R	TEXTURE	STRUCTURE	CONSIS-	ROOTS	EFFERVES-	PARENT	%	OTHE	R
(IN)	MATRIX	MOTTLES	COATINGS	USDA	USDA	TANCY		CENCE	MATERIAL	CLAY		
0 – 7 A	10YR 4/3			Silt loam	Moderate medium granular	Friable	Many		Loess	17		
7 – 18 2Bt1	7.5YR 5/6		10YR 4/3 Clay	Very fine sandy loam	Moderate fine subangular blocky	Friable	Many		Windblown sand	14		
18 – 32 3Bt2	2.5Y 5/3		10YR 4/4 Clay	Silty clay loam	Moderate medium subangular blocky	Firm	Many to few in the lower part		Limestone/ Colluvium	36	3% channers	
32 – 47 3Bt3	2.5Y 5/4		10YR 5/3 Clay	Silty clay loam	Weak medium subangular blocky	Firm	Few		Limestone/ Colluvium	38	9% channers	
47 – 60 4Btss	2.5Y 5/4	10YR 6/6	10YR 6/1 Clay	Silt clay	Weak medium angular blocky	Firm			Shale residuum	55	5% channers	

BORING:	#: 1	0	DESCRIPTI	ON OF BORIN	IG LOCATIO	ON:	Buc	ket auger bori	ng behind block o	garage
Upland	Terrace		Outwash Plain	Ridge Top	Upper 1/3	Middle	Lower 1/3	Pothole	Depression	Broad Flat Flood Plain
Х							Х			
Ponding or F	Flooding:	NO	% Slope	8 As	pect N	Family Class	ssification:	Fine I	oamy, mixed, mesic T	ypic Hapludalfs
< 0.25 gpd/ft ²	> 1.20 g	pd/ft ²	Seasonal Hi	gh Water Table	Fragipan	Glacial Till	Bedrock	Massive Clay	Poor Filter	Other
			+	-60"			+60"			
Vegetation at	site: Id	e/scat	tered trees	Disturbance?	NO Soil	Series mapped:	Pat	e Sc	il Series of Boring:	Bloomfield

Dena L. Anderson
Professional Soil
Scientist
IRSS #90
IAPSC-CPSC #49

					S	OIL PROP	ERTIES				
DEPTH		SOIL COLO	R	TEXTURE	STRUCTURE	CONSIS-	ROOTS	EFFERVES-	PARENT	%	OTHER
(IN)	MATRIX	MOTTLES	COATINGS	USDA	USDA	TANCY		CENCE	MATERIAL	CLAY	
0 – 6 A	10YR 4/3			Silt loam	Moderate medium granular	Friable	Many		Loess	17	
6 – 24 2Bt1	7.5YR 5/6		10YR 4/3 Clay	Very fine sandy loam	Moderate fine subangular blocky	Friable	Many to few in the lower part		Windblown sand	22	
24 – 40 2Bt2	10YR 5/6		10YR 4/4 Clay	Very fine sandy loam	Weak medium subangular blocky	Friable	Few		Windblown sand	15	
40 – 60 2BC	10YR 5/4	10YR 6/3 10YR 6/6		Fine sandy loam	Weak medium subangular blocky	Friable			Windblown sand	12	

BORING:	#: 11	DESCRIP	TION OF BORIN	NG LOCATIO	N: Pu	ısh probe bo	oring on ridg	ge top near likelie	st location for	home				
Upland	Terrace	Outwash Plair	Ridge Top	Upper 1/3	Middle	Lower 1/3	Pothole	Depression	Broad Flat	Flood Plain				
X			Х	Х										
Ponding or I	Flooding:	NO % Slope	5 As	spect N	Family Clas	ssification:	Fine-si	lty over clayey, mixed	l, mesic Typic Ha <mark>l</mark>	oludalfs				
< 0.25 gpd/ft ²	> 1.20 gp	d/ft ² Seasonal	High Water Table	Fragipan	Glacial Till	Bedrock	Massive C	lay Poor Filte	er	Other				
			+60"			+60"			Slicke	ensides 37"				
Vegetation at	site: Idle	scattered trees	Disturbance?	NO Soil	Series mapped:	Switze	erland	Soil Series of Borin	g: Swit	zerland				
	SOIL PROPERTIES													

Dena L. Anderson
Professional Soil
Scientist
IRSS #90
IAPSC-CPSC #49

DEPTH		SOIL COLO	R	TEXTURE	STRUCTURE	CONSIS-	ROOTS	EFFERVES-	PARENT	%	ОТН	ER
(IN)	MATRIX	MOTTLES	COATINGS	USDA	USDA	TANCY		CENCE	MATERIAL	CLAY		
0 – 6 A	10YR 4/4			Silt loam	Moderate medium granular	Friable	Many		Loess	22		
6 – 12 Bt1	7.5YR 5/6		10YR 4/4 Clay	Silty clay loam	Moderate fine subangular blocky	Firm	Many		Loess	31		
12 – 26 Bt2	7.5YR 5/6	10YR 6/6	10YR 6/3 Clay	Silty clay loam	Moderate fine and medium subangular blocky	Firm	Many to few in the lower part		Loess	38		
26 – 37 2Bt3	7.5YR 5/6		10YR 6/2 Clay	Silty clay	Moderate medium angular blocky	Firm	Few		Shale residuum	47		
37 – 60 2Btss	2.5Y 6/4	10YR 6/6	10YR 6/2 Clay	Silty clay	Weak medium angular blocky	Firm			Shale residuum	58	2% gravel	

BORING	#: 12		DESCRIPTI	ON OF BOR	NG LO	CATIO	N:	Push pro	obe bori	ing on rid	ge top nea	ar likelies	t location for	home
Upland	Terrace	Οι	ıtwash Plain	Ridge Top	Upp	er 1/3	Middle	Lowe	er 1/3	Pothole	Depr	ession	Broad Flat	Flood Plain
X				Х		Χ								
Ponding or Flooding: NO % Slope 5 Aspect W Family Classification: Fine-silty over clayey, mixed, mesic Typic Hapludalfs									ludalfs					
< 0.25 gpd/ft ²	> 1.20 gpc	d/ft²	Seasonal Hi	gh Water Table	Fra	igipan	Glacial Ti	I Be	drock	Massive	Clay	Poor Filter		Other
	0.29 gpu/It- > 1.20 gpu/It-			60"				+	-60"				Slicke	nsides 43"
Vegetation at	site: Idle/s	scatte	red trees	Disturbance?	NO	Soil	Series mapped	:	Switzerla	and	Soil Series	s of Boring:	Swit	zerland
							SOIL PROP	ERTIES						
DEPTH	SOI	L COL	_OR	TEXTURE	STRI	JCTURE	CONSIS-	ROOTS	EFFER	VES-	PARENT	%	0	THER

Dena L. Anderson
Professional Soil
Scientist
IRSS #90
IAPSC-CPSC #49

(IN)	MATRIX	MOTTLES	COATINGS	USDA	USDA	TANCY		CENCE	MATERIAL	CLAY		
0 – 8 A	10YR 4/4			Silt loam	Moderate medium granular	Friable	Many		Loess	21		
8 – 28 Bt1	7.5YR 5/6		10YR 4/4 Clay	Silty clay loam	Moderate fine and medium subangular blocky	Firm	Many to few in the lower part		Loess	33		
28 – 43 2Bt2	7.5YR 5/6		10YR 6/3 Clay	Silty clay	Moderate medium angular blocky	Firm			Shale residuum	46		
43 – 60 2Btss	2.5Y 6/4	10YR 6/6	10YR 6/1 Clay	Silty clay	Weak medium angular blocky	Firm			Shale residuum	56	2% gravel	

BORIN	NG #:	13	D	ESCRIPTI	ON OF BOR	ING LO	CATION	l:	Push pro	obe boring	on ridge	top near l	ikeliest	location for	home
Upland	Ter	race	Out	wash Plain	Ridge Top	Upp	er 1/3	Middle	Lowe	er 1/3	Pothole	Depress	on	Broad Flat	Flood Plain
Х					Х		X								
Ponding	or Floodi	ng: N	10	% Slope	5	Aspect	W	Family C	lassification	on:	Fine-silty	over clayey,	mixed, m	esic Typic Hapl	ludalfs
< 0.25 gp	d/ft ² > '	1.20 gpd	/ft²	Seasonal Hi	gh Water Table	Fra	gipan	Glacial Til	II Be	drock	Massive Cla	ay Poo	or Filter	C	Other
	<u> </u>				-60"				- 1	-60"				Slicker	nsides 46"
Vegetatio	n at site:	ldle/s	cattere	ed trees	Disturbance?	NO	Soil Se	ries mapped:	:	Switzerland		Soil Series of	Boring:	Switz	erland
							S	OIL PROPE	ERTIES						
DEPTH		SOIL COLOR		TEXTURE	STRU	CTURE	CONSIS-	ROOTS	EFFERVES	S- P.	ARENT	%	ОТ	HER	
(IN)	MATRIX	МОТ	TLES	COATING	S USDA	U	SDA	TANCY		CENCE	M.A	TERIAL	CLAY		

Dena L. Anderson
Professional Soil
Scientist
IRSS #90
IAPSC-CPSC #49

0 – 7 A	10YR 4/4			Silt loam	Moderate medium granular	Friable	Many	Loess	22		
7 – 31 Bt1	7.5YR 5/6		10YR 4/4 Clay	Silty clay loam	Moderate fine and medium subangular blocky	Firm	Many to few in the lower part	Loess	33		
31 – 46 2Bt2	7.5YR 5/6		10YR 6/3 Clay	Silty clay	Moderate medium angular blocky	Firm		Shale residuum	45	2% gravel	
46 – 60 2Btss	2.5Y 6/4	10YR 6/6	10YR 6/2 Clay	Silty clay	Weak medium angular blocky	Firm		Shale residuum	57	2% gravel	

Dena L. Anderson
Professional Soil
Scientist
IRSS #90
IAPSC-CPSC #49

(812) 591-3770 (812) 525-6433

Site Location:

APPROXMATE BORING LOCATIONS



