

State of Wisconsin Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

			<u>Ro</u>	oute To:	Watershed/ Remediation		er 🔲 lopment 🗀)	Waste Other		gement								
															-	Pa		of	15
	y/Proje mer B			orte					License	/Permit	/Monito	oring N	ımber		_	Numb			
					ief (first, last)) and Firm			Date Dr	rilling S	tarted		Da	te Drill		O, PZ		Dril	ling Method(s
	old W									8/1	/2001				8/14/	2001		6.2: Re	5" Dual Tube verse Circulation
	nique W			DNR V	Vell ID No.	Comme	on Well Na	me	Final St					e Eleva			Bo	orehole	Diameter
Local	Grid Or	rigin	☐ (es	stimated:	☐) or B	Soring Loca	ation 🛛		628	3.65 F	eet M	SL		58.96 Local (ŀ	6.25	5 inches
State		15			1,734,02		S/C/®		L	at4			17.2 <u>"</u>		5110 20	1	1		□Е
NE		of S	E 1	/4 of Sect		т 48	N, R 5	W	Lor		0°5		27.1"		Fee	t 🗆 S			Feet W
Facilit	y ID				County Bayfield			4	ounty C 1	ode	Civil 7	`own/C	ity/ or	Village					
San	nple		T		Daynoid				<u> </u>						Soil	Prop	erties		<u> </u>
					Soil	/Rock Desc	cription												1
O	Att. d	unts	ı Fee	İ	And (Geologic O	rigin For							ssive	6				luts
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		E	ach Major	Unit			uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
[8]	144		-		red, medium t	o coarse, si	ilty, sandy G	RAVI	EL	GP	75.7			0 01					Three
Air Rotary logged from cuttings			-1 -2 -3 -4 -5 -7 -10 -11	Medium very we	n brown, fine	CLAY.	INDSTONE	E; weat	hered,	CL									separate boreholes, each with one pipe set in grout: PZ160 0-27', PZ16x 0-54', PZ16r 0-253'
	-	y that t	he info	mation or	n this form is	true and c	Two												
Signat	ure	1	h	Some	() n ~	/	Firm 1	URS	Corpo	oration	1					•			Tel Fax
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form

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od T	engt	Blow Counts	Depth In Feet	Duch Major Offic	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid	Plasticity Index	P 200	RQD/ Comments
Z 8	2016	<u> </u>		Medium brown, fine grained SANDSTONE; weathered,	<u> </u>	0 1	≥ □	=	2 2	Σŏ	22	H H	Д	~ ద
ogg(-	very weak to stiff.										
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Rota			-14											ļ
Air Rotary video logged Number and Type	ĺ		Ē .	<u> </u>										
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	f		-28				Ť							PZ-16O bentonite
		ļ	- 26											seal (27.5'-30')
	ŀ	ļ	- -29]	1					(27.5'-30')
		Ė	-											
		ļ	-30							V		İ		D7 1/0
		-	-							-			1	PZ-16O very fine
			-31											sand (30'-31')
		Ė	- 32											sand (30'-31') PZ-16O sand filter
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	g Numt	er	PZ-	Use only as an attachment to Form 4400-	122.						Pa	ige 3	of	15
San	nple			0.75						Soi		erties		
	Length Att. & Recovered (in)	nts	eet	Soil/Rock Description					စ္			İ		
rbe v	ι Ati ered	Com	l H	And Geologic Origin For	S		۽		ssiv	. و		<u>ج</u> ا		nts
umb d Ty	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Each Major Unit	USC	Graphic Log	= la	PID/FID	npre	istur	ig ig	X zicit	8	D
Number and Type	7 %	<u>B</u>	ļă	Malian Language Control of the Contr	Ď	8 3	ĭ Ö	III.	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			Ē	Medium brown, fine grained SANDSTONE; weathered, very weak to stiff.	ļ					-				pack (31'-44')
			-33											(31 -44)
			Ė	12" void.		~ ^								PZ-16O
	ł		_ 34			D A A		1						slotted well screen
			-	Red - violet, fine grained SANDSTONE with white		2.		:						(33'-43')
	ŀ		35	spots and bands; unweathered	ĺ									<u> </u>
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		F	-45	Mildly contorted, medium brown, red and white, fine										
Ш		-	:	grained SANDSTONE banding. Slightly weathered.			ĺ		1]		
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		Ė		İ						- [PZ-16X
		E	-51							ĺ			l	bentonite cement
		E		1" zone of red SILTSTONE overlying 1" of white					- 1	- 1			- [(0'-54.5')
Ш		E	-52	2 2016 Of Ted SILTS TO INE overlying 1" of white										
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	g Numl	er	PZ-	Use only as an attachment to Form 4400	-122.						Pa	ige 4	of	15
San	nple			0.75						Soi		erties		
	Length Att. & Recovered (in)	nts	eet	Soil/Rock Description		ļ	1		ု					
ype	h At 'ered	Com	l H	And Geologic Origin For Each Major Unit	S	ြ	[ا ا	essiv h	le T	1	<u>4</u>		ents
fumb nd T	Length Att. Recovered (Blow Counts	Depth In Feet	Each Major Office	10	Graphic Log	e	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
Number and Type	그꼾	<u>α</u>		leached sandstone bands.	ΩSΩ	5 2	Well		S 🕸	≱రి	<u> </u>	Pla In	P 2	_ % ೧
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			<u>-53</u>						i					
			ļ	hairline fracture then becoming lighter red - violet and light olive brown.										
			- 54											
			Ė .				2 2	3						PZ-16X
	ļ		-55 -											bentonite
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			<u> </u>											
			-57 -				***							PZ-16X
	l		- 50											very fine sand
		-	-58 -											(57'-58') PZ-16X
	Ì	ļ	- -59											sand filter
	İ	İ	=											pack (58'-66')
			-60											
			- '						1					PZ-16X slotted well
		ļ	- -61								İ			screen
		[-	Light olive brown, fine grained SANDSTONE.							1			(60'-65')
		Ė	-62				目		ļ					
			-	5" dark violet, mildly contorted, SILTSTONE band.			目							
		Ę	-63	very white layer grading to light gray after 63.5'					ł			1		
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	i	Ė	-64		į									
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		Ė	-65				ㅂ	ļ			l			PZ-16X
	l		-	Reddish brown to red - violet, slightly weathered, fine				ĺ	Ì	ĺ	İ			filter sand in borehole
		Ė	-66	grained SANDSTONE with intermittent, thin, white and				1			ŀ			(66'-100')
		E	67	red banding and white spots.				ļ				•		
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	İ	F	-69	more thin red bands	1				İ	İ				
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Boring Number	r PZ-	Use only as an attachment to Form 4400-	122.		<u> </u>		_			ge 5		15
Sample		Soil/Rock Description						Soi	Prop	erties		
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Pype yvere	S H	Each Major Unit	S	hic	аш	Ü	oress gth	int e		city	_	nents
Number and Type Length Att. & Recovered (in)	Blow Counts Depth In Feet		USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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	73	7" light olive brown, fine grained SANDSTONE band.	İ				1					
	Ė '	gamed 5/1/2010 band.										
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	75											
	F	2.5" light alive brown fine aming CANDSTONE Land										
	- 76	2.5" light olive brown, fine grained SANDSTONE band.										
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	F 70	Interbedded, thin, medium brown, white and red, fine										
	- 78 -	grained SANDSTONE layers										
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	87	Very light olive brown, fine grained SANDSTONE.										
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	F -91	Very light olive brown, fine grained SANDSTONE.										
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Number and Type	Leng	Blow Counts	Depth In Feet		USCS	iraph og	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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			—95 [Red - violet, fine grained SANDSTONE with mildly										
			- -96	contorted, red and white banding.										
			- "	Very light olive brown, fine grained SANDSTONE.										
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				with occasional white spots and brown bands										
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San	nple									Soil		erties		
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Each Major Unit	uscs	iphic 3	II grar	PID/FID	npre	Moisture Content	ri di	Plasticity Index	8	
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100000			- 154											
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			Ė I	Light reddish brown to medium brown, fine grained SANDSTONE										
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Sar	nple			Soil/Rock Description						Soi	Prop	erties		
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Number and Type	Leng	Blov	Dept		USC	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			-	Light reddish brown to medium brown, fine grained SANDSTONE					0 07					
			<u>-173</u>	SANDSTONE										
			E											
			174	$_{\searrow}^{0.1}$ -inch void infilled with dark red siltstone, edged by										
			Ė,	contorted red-brown and white bands above and below Red-violet, fine grained SANDSTONE; with occasional										
			-175	white spots and brown bands										
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			179	becoming more light brown			-							
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Air Rotary video logged	ļ		F 181				}							
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Air R	1			becoming less light brown more red-violet										
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Boring Numb	er	PZ-	Use only as an attachment to Form 4400-	122.						Pa	ige 11	of	15
Sample			0.100 1.5						Soi		erties		
Number and Type Length Att. & Recovered (in)	ınts	Feet	Soil/Rock Description And Geologic Origin For					ve.					
h A	ટું	l fi	Each Major Unit	S	.02	E	₽	ressi th	합#		Ē		ents
Number and Type Length At Recovered	Blow Counts	Depth In Feet	Last Major Sint	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
28 1 1	ш	-	Red-violet, fine grained SANDSTONE; with occasional	<u> </u>	9 7	×Ω		08	≥ ∪	<u> </u>	교면	<u> </u>	<u>×3</u>
			white spots and brown bands								-		
		-193											
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		<u></u> 194											
		_ 195											
		- 1											
		_ 196								ļ			
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		-200 -											
		201											
	Ė	201						Ì					
	F	-202										}	
	ļ	:	Dark red-violet, fine grained SANDSTONE; with										
	Ė	-203	numerous gray and brown bands			J							
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	E	-205						1					
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	E	-	Ped violet for a wind CANDCTONE			ļ			Ì				
	Ė	-209	Red-violet, fine grained SANDSTONE; with occasional white spots and brown bands	[-							ł		
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	F	-210	ļ										
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	E	-211									1		
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***	g Numb	er	PZ-	16 Use only as an attachment to Form 4400-	122.							ge 12	of	15
Sar	nple			0.300 1.50						Soil	Prop	erties		
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	uscs	Graphic Log	ell agram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
ZE	N W	B	<u> </u>	Red-violet, fine grained SANDSTONE; with occasional	<u> </u>	5 3	Ν̈́C	Id	ပ္သန္	≱్రి	iğ iğ	F I	P 2	ಜ್
	}		Ė	white spots and brown bands										
			-213											
	1		- -214											
			-											
			215											
			- - 											į
			-216 -											
			-217	abrupt color change to more brown than violet Dark red, laminated SILTSTONE										
			- 1	Layered white and light brown bands										
			-218	Light red-violet, fine grained SANDSTONE; few contorted white rimmed bedding planes										
			= 310											
			-219 -											
			220											
	Ì		-											
			-221 -											
			_ 	Dark red-violet, fine grained SANDSTONE; with numerous gently dipping white, gray, and brown bands										
				numerous gently dipping winte, gray, and brown bands										
		ļ	223											
		ļ	-											
		Ī	224 -											
	-	ļ	- -225											
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		Ė	-229		ļ							ļ		
		E	-230											
		Ė		Reddish-brown fine grained SANDSTONE; with angular white bands and spots										PZ-16R bentonite
		Ė	-231	angena white canes and spots				ŀ			ļ			cement (0'-235')
		Ė												with 6"-ID steel outer
16.8	1	r	-232		f		u Ke	ŀ	ļ	ŀ	İ		ļ	

	g Numb	per	PZ-	Use only as an attachment to Form 4400-	122.						Pa	ge 13	of	15
_Sar	nple									Soil		erties		
	t. &	nts	ē	Soil/Rock Description And Geologic Origin For					မွ	ĺ				
ype	h At	Con	In	And Geologic Origin For Each Major Unit	S	ی	E	۵	essiv	5 7		<u>4</u>		ents
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Lach Major One	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			-	Reddish-brown fine grained SANDSTONE; with angular white bands and spots	-			-	8	20		다 다	<u> </u>	casing set in
			-233	angular white bands and spots										casing set in grout (0'-262')
			F											
			234											
			F 225		•									
			-235 -				22 22							PZ-16R bentonite
			236											seal (235'-246')
														(200 210)
			-237											
			- 238											
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			239											
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			—240 -											
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			=						İ					
		F	-245 -											
		[-246					İ	}					
		Ė	:											PZ-16R very fine sand (246'-253')
		Ė	-247						Ì				. [(246'-253')
			-248											
	Ì	ļ									İ		ļ	
		ļ	249									l	•	
		F	250											
		F	-250											
		F	-251											
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# 8		F	-252	I	F									

	ig Numl	er	PZ-	Use only as an attachment to Form 4400-1	122.							Pa	nge 14	of	15
Saı	nple										Soi	l Prop	erties		
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d T.	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Each Major Unit	uscs	Graphic	 =	Diagram	PID/FID	npre	istur	nid	Plasticity Index	8	D/ D
Number and Type	12 %	Ē	å		<u> </u>	5.	Well	<u>D</u>	PIL	Compressive Strength	క్త స్	Liquid Limit	Plastic Index	P 200	RQD/ Comments
			Ė	Reddish-brown fine grained SANDSTONE; with angular white bands and spots											
			- -253	and spots											
										}					PZ-16R sand filter
			□ □ 254				를			ĺ					pack
															(253'-283')
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			-												
			- -256										ĺ		
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			- -257												ļ
			- 258												
			-259												
			-												
			-260							ł					
															PZ-16R slotted well
		Ì	261												screen
			-												(262'-282')
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		}	-						Ì						
			-263							İ					
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		F	264]目			Ì					
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		<u></u>	-265							1					
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			-266	Dark red SILTSTONE						ŀ					1
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Boring Num	ber	PZ-	Use only as an attachment to Form 4400-	122.							age 15	of	15
Sample									Soi	Prop	erties		
8 (ii)	l st	ee	Soil/Rock Description					့					
ype ered	Š	In F	And Geologic Origin For Each Major Unit	S	. <u>o</u>	[le	ressiv	을 ±		i j .		ents
Number and Type Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Lacii Wajoi Oint	SC	Graphic	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid	Plasticity Index	P 200	RQD/ Comments
Zalla	<u> </u>	-	Dark red SILTSTONE	Ω	0 7		<u> </u>	0 %	∑ ປັ	<u> </u>	문년	Ь	<u> </u>
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		281											
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State of Wisconsin Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			<u>Ro</u>	oute To:		shed/Was			_		_ `	gement								
					Remed	liation/Re	edevelopi	ment 🗌]	Other										
 							·										Pa		of	15
	ty/Projec mer B			Janles					ł	License	/Permit	t/Monito	oring N	umber			g Numb			
					hief (first,	last) and	Firm		!	Date Dr	rilling §	Started		ID:	te Dril		7R, PZ- mpleted		Dril	ling Method(s)
-	Gotto					,			ŀ			/ tour 2.2 _					14	,	10" 9.8	ling Method(s) Drill&Drive (0-9) 75" Rotary (9-180) 75" Rotary
Phi	lip En				ces Corp							0/2002				10/8/	2002		(18	0-280)
WI Ur	nique W	ell No).	DNR	Well ID N	₹0. C	Common	Well Nar	me	Final St		-			ce Eleva			Bo		Diameter
Incal	Grid Or	rigin	☐ (e	stimated:	: 🗌) o	r Borin	o Locatic	on 🗍	!	. 003).96 r	eet M	SL		62.30) Feet Grid Lo			<u> 5.88</u>	8 inches
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SE		of S	E 1	1/4 of Sec		13, т	r 48 N	N, R 5	W			<u> </u>	<u>'</u> _	**	ļ		at 🗆 S			Feet W
Facilit	y ID				County					County C	ode	Civil T	Town/C	ity/ or	Village					
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San	nple	1				O=11/D oo	1. Danaria								<u> </u>		l Prope	erties		•
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er ype	h At	S	l H		Л		ogic Ong Major Un	=			S	 ၂.ည	[le	ressi th	e H		<u> </u>	'	ents
umb id T	ingt.	Blow Counts	Depth In Feet			Lucii i	Major C.	ш			sc	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	200	RQD/ Comments
Air Rotary logged from cuttings Number and Type	108	m	[_	Moist	, medium s	etiff. mode	erately pla	astic. brov	wn to	red.	<u> </u>	U 1	<u> </u>	<u> </u>	<u>\0 \pi</u>	ΣÖ	<u> = = </u>	교퇴	<u>C-</u>	≱ ඊ PZ-37D (6"
tting	100		F	silty C		Many serve.	olunes, p	Abut, C.L.	77 IL CO	100,				1					'	steel pipe in
n cu]]		<u>-</u> 1								1			1					'	grout 0-34) PZ-37R (2"
fror	, 1	ĺ	F								CL						'		'	pvc pipe in grout 0-252)
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ol y	[]	l	E	ļ							1								'	
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_	y certif	v that		mation c	on this for	m is true	and corr	rect to the	e best	of my k	nowled	lge.		<u> </u>	<u> </u>	!		<u></u>		<u> </u>
Signati		\Rightarrow	$\overline{\lambda}$	-#				· · · · · · · · · · · · · · · · · · ·		Corpo			-							Tel:
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This form is authorized by Chapters 281, 283, 280, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

	y Numb	er	PZ-	Use only as an attachment to Form 4400-	122.						P	age 2	of	15
Sam										Soi	l Pro	perties		
	Length Att. & Recovered (in)	nts	ig i	Soil/Rock Description					မွ					
ype ype	h Att	Com	In F	And Geologic Origin For Each Major Unit	\ \sigma	. <u>.</u>	 E	А	essiv	e _	:	<u>i</u>		ents
umb Id Ty	engti	Blow Counts	Depth In Feet	Each Major Onit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid I imit	Plasticity Index	P 200	RQD/ Comments
Number and Type	고입	В	_	Medium brown, fine grained SANDSTONE with white	<u> </u>	<u>Θ</u> Δ	βÖ	. ᠌	22	ΣČ	<u> </u>		<u>~</u>	<u> </u>
			Ė	spots throughout; moderately weathered										
	ĺ		-13											
	-		Ē	12-inch void		0 0								
			<u>-14</u>			Δ <u>Δ</u>		<u>.</u>						
			;	0.5-inch void								1		
			15											
	1		- 16	0.75-inch void								ļ		
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			- 17	·	:									
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	- 1		18	0.5-inch void										
			-	0.5-men vold					ľ					
	İ		-19	7-inch void		D D]			
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			-20											
			E	3-inch void		۸.								
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			- 22	4-inch void		D D							:	
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		ļ	- ₂₉				_	ļ						
		ļ	-											PZ-37D (6" steel casing
		-	-30											steel casing set in grout 0-34)
		ļ		·										<i>v-3•1</i>
		į	-31	0.75 inch soid										
		F	<u> </u>	0.75-inch void										
18-8		F	-32	1	F		8 K	ļ						

	g Numb	er	PZ-	Use only as an attachment to Form 4400-	122.						Pa	ge 3	of	15
Sar	nple			Soil/Rock Description						Soil	Prop	erties		
_	Length Att. & Recovered (in)	unts	Depth In Feet	And Geologic Origin For					ive					y,
nber Type	gth A	Blow Counts	th In	Each Major Unit	CS	hic	_ [press 1gth	sture	E +	icity	0)/ iment
Number and Type	Re Len	Blo	Deb		USCS	Graphic Log	Wel	PID/FID	Compressive Strength	Mois	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			Ė	0.75-inch void Red-violet, fine grained SANDSTONE with occasional										
			-33	white spots										
	İ		Ė											
			-34 -					٩						PZ-37D
			-35											(open borehole)
			<u> </u>					ļ						
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			F											
			- 39											
			_ 40											
			- 40											
			-41											
			-	dark brown and brown contorted laminations with										
			42 -	numerous white spots and bands										
			- -43											
			44											
			-											
			-45 -											
			-46											
			-47											
			- -48											
	İ		- 76											
			-49											
			-	1										
			一50 -											
				dark brown and brown contorted laminations with numerous white spots and bands										

18-8		ļ	-52	ļ	,									

Boring Number	er	PZ-	Use only as an attachment to Form 4400-	122.							ge 4		15
Sample									Soi	Prop	erties		
Number and Type Length Att. & Recovered (in)	ounts	Depth In Feet	Soil/Rock Description And Geologic Origin For]			Compressive Strength	6.				ıts
Number and Type Length Att Recovered	Blow Counts	epth I	Each Major Unit	uscs	Graphic Log	ell	PID/FID	mpre	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
Z E J Z	<u> </u>	Ď -	dark brown and brown contorted laminations with	Ω	ro Mr	j≱ č		<u>ე ზ</u>	<u>≱ ८</u>	<u> </u>	II II	P.	<u>× 3</u>
		ا ا	numerous white spots and bands										
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		- -54											
		_ 55											
		- 33											
		-56											
		_ 57											
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	ng Numl	ber	PZ-	Use only as an attachment to Form 4400-	122.	.,-					Pa	ige 5	of	15
Saı	mple			2 115 4 5						Soi	l Prop	erties	,	
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			-73 -74 -75 -76 -77 -78 -79 -80 -81 -82 -83 -84 -85 -86 -87 -88	dark brown and brown contorted laminations with numerous white spots and bands										

Borin	g Numb	er	PZ-	Use only as an attachment to Form 4400-	122.							age 6	of	15
	nple									Soi		perties		
	t. & (ji)	nts	eet	Soil/Rock Description And Geologic Origin For					.se					
ber ype	th At vered	, Con	h In F	Each Major Unit	S	hic	[pressi	ture	J	icity		/ ments
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	•	nscs	Graphic Log	Well	PID/FID	Compressive Strength	Moisture Content	Liquid I imit	Plasticity Index	P 200	RQD/ Comments
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			100											
			- - -101											
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			103											
			104											
			105	White, fine grained SANDSTONE.										
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			107											
			- 108										į	
			- -109											
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A TANADA MATA			-111											
			112											

	g Numb	er	PZ-	Use only as an attachment to Form 4400-	122.						Pa	ige 7	of	15
Sar	nple	-								Soi	Prop	erties		
	Length Att. & Recovered (in)	ıţs	eet	Soil/Rock Description					မွ		ļ			
r g	ered Att	Blow Counts	Depth In Feet	And Geologic Origin For	တ	ပ	E	Д	Compressive Strength	5 ±	1	<u>.</u>		RQD/ Comments
mbe 1.7	ngth cove	<u></u> 80	pth	Each Major Unit	usc	Graphic Log	ell agrai	PID/FID	mpr	Moisture Content	Liquid Limit	Plasticity Index	P 200	
Number and Type	고器	<u> </u>	Ď	White Control of the	'n	5 3	We	IIA.	<u> ಬ್ರಾಸ್</u>	≱ చ	<u> </u>	Pla Inc	P 2	<u> </u>
			E	White, fine grained SANDSTONE.										
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			115											
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			116											
			-117								}			
			Ė				:							
			-118 -	Reddish brown to red - violet fine grained										
		·	Ξ	SANDSTONE										
			-119 -											
			- 100											
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			- 121											
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	g Numl	er	PZ-	Use only as an attachment to Form 4400-	122.							ge 8	of	15
Sar	nple									Soil	Prop	erties		
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			-133 -134 -135 -136 -137 -138 -139 -140 -141 -142 -143 -144 -143 -144 -145 -145 -147 -148 -149 -150 -151	white layer										

Boring Number	PZ-	Use only as an attachment to Form 4400-	122.							ge 9	of	15
Sample								Soil	Prop	erties		
Number and Type Length Att. & Recovered (in)	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	SOSA	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	F	white layer										
Number and Type Length At Recovered Recovered Recovered Blow Cou	153 -154 -155 -156 -157 -158 -158 -160 -161 -162 -163 -163 -164 -165 -165 -166 -167 -168 -168 -169 -169	Each Major Unit	USCS	The state of the s	Well Diagram	PID/FID	Compress	Moisture Content Content	Liquid	Plasticity Index	P 200	RQD/ Commeni
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	ıg Numl	oer	PZ-	Use only as an attachment to Form 4400-	122.						Pa	ge 10	of	15
Sar	nple									Soil	Prop	erties		
	1. & (j)	nts	eet.	Soil/Rock Description And Geologic Origin For	! 				e ve					
ype ype	h At	Con	In		S	و.	E .	le	essiv	을 늘		ity		ents
lumb nd T	engt	low	epth	Lacii Major Offic	sc	raphi og	ell	D/FI	ompr	oistu	quid	astic dex	200)Q
2 8	I M	Щ		White, fine grained SANDSTONE.	D	0 7	žΩ	교	2 23	Σŏ	<u> </u>	II II	<u> </u>	≥ 3
Air Rotary w/video logging and Type		Blow Counts	173 - 174 - 175 - 176 - 177 - 178 - 180 - 181 - 182 - 183 - 184 - 185 - 186	Each Major Unit White, fine grained SANDSTONE. Reddish brown to red - violet fine grained SANDSTONE white layer	NSCS	Graphic Graphic Graphic Library of the Control of t	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid	Plasticity Index	P 200	RQD/ Comments

Boring Number	PZ-	Use only as an attachment to Form 4400-	122.						Pa	ge 11	of	15
Sample								Soi	Prop	erties		
\$ (<u>ii</u>) \$	j j	Soil/Rock Description				Į	စ္					
Number and Type Length Att. & Recovered (ir Blow Counts	Depth In Feet	And Geologic Origin For	70		_		SSiv	9		ح ا		unts
mbe ITy I w	뒢	Each Major Unit	uscs	phic 2] grar	 E	npre	istur	nid it	sticil	8	
Number and Type Length Att. & Recovered (in) Blow Counts			s n	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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	⊢204	white layer										
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	-207	white layer										
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	-208											
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	—209	Medium reddish brown fine grained SANDSTONE				Ì						
	E											
	-210											
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	-211	White, fine grained SANDSTONE.										
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	-212		ŀ									

Boring Number	PZ-	Use only as an attachment to Form 4400-	122.							ge 12	of	15
Sample		G. TIPL ALT						Soil	Prop	erties		
Number and Type Length Att. & Recovered (in)	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	-	White, fine grained SANDSTONE.										
Ni an		White, fine grained SANDSTONE. Reddish brown to red - violet fine grained SANDSTONE	n		W. Di	П	CO Str	OD CO	Lid	Ple Inc	P 2	RC Co
	-226 -227 -228 -229 -230											
	-232								;			

	g Numb	er	PZ-	Use only as an attachment to Form 4400-	122.						Pa	ge 13	of	15
Sar	nple									Soil	Prop	erties		
	Length Att. & Recovered (in)	ats	eet	Soil/Rock Description					ၑၟ					
er De	n Att	Cour	In F	And Geologic Origin For	S	J	E	۵	essiv h	5 ±		2		ents
Number and Type	angtl ecov	Blow Counts	Depth In Feet	Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
Z ä	7 5	m	Q	Reddish brown to red - violet fine grained	<u> </u>	<u> </u>	≥ Ω	H	2 2	≱ შ	<u> </u>	Pla In	P.	<u>% ८°</u>
			-	SANDSTONE				İ						
			233											
			<u> </u>											
			-234	Dark reddish brown, very fine grained SANDSTONE										
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			235											
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			-236											•
			-237											
			- -238											
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			-240	D. I. i. I. G. I. I. I. I.										
	l			Red-violet to gray, fine grained SANDSTONE; very dense										
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		-	= [[PZ-37R (2" pvc riser set
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Boring Number	PZ-	Use only as an attachment to Form 4400-	122.							ge 14	of	15
Sample								Soil	Prop	erties		
Number and Type Length Att. & Recovered (in)	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
Z a a a a a a a a a a a a a a a a a a a		Red-violet to gray, fine grained SANDSTONE; very dense	D		W	ď	S	X O	1	IT IT	ď	PZ-37R (betonite seal 252-257) PZ-37R (fine sand 257-259)
	-260 -261 -262											PZ-37R (filter pack 259-286)
	-263 -264 -265 -266 -267 -268 -270 -270	White, fine grained SANDSTONE.										PZ-37R (pvc screen 263.6-283.6)
10000000000000000000000000000000000000	272											

Borin	g Numb	ег	PZ-	Use only as an attachment to Form 4400-	-122.						Pa	ge 15	of	15
Sar	nple									Soil	Prop	erties		
	Length Att. & Recovered (in)	ts	gt	Soil/Rock Description			İ		o	i				
r ed	Att	Coun	In F	And Geologic Origin For	100		=		ssiv	. وا		<u>.</u>		nts
Number and Type	ngth	Blow Counts	Depth In Feet	Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	it di	Plasticity Index	8	RQD/ Comments
Zŭ	R Le	ă	Ď) S	Grap Log 23	Dia €		Str	ું દુ	Liquid Limit	Plastic Index	P 200	Con Con
			E	White, fine grained SANDSTONE.										
			E_273											
			F	Red-violet to gray, fine grained SANDSTONE; very dense										
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			284 											PZ-37R (filter pack below
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State of Wisconsin Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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					Remediation	on/Redevelopmen	nt 🔲	Other										
							<u></u>									ige 1	of	6
	ity/Proje			· · · · · · · · · · · · · · · · · · ·				License	/Permi	t/Monit	oring N	umber		1 7	g Numb	` '	***	
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	gged b				51 (11100 mm.,	and 1 mm		Daw L.	Jime	کانتا س		10.	ne Din	ing Co.	mpleted	i	1	lling Method(s)
Log	gged b	y Col	log Ind	c.						2002				9/9/2	2002		dri un	ell logged only, illing details known
WI U	nique W	Vell No).	DNR W	Vell ID No.	Common We	ell Name	Final St	tatic Wa	ater Lev	/el		ce Eleva	ation		Bo	orehole	Diameter
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				<u> </u>	Bayfield			4										
Sar	mple	┦			~ 71					1			<u> </u>	Soil	l Prope	erties		
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d T	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		Ea	ach Major Unit			SCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	8	RQD/ Comments
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		y that ti	he infor	mation on	this form is t	true and correct	to the best	t of my kr	nowled	ge.								
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This form is authorized by Chapters 281, 283, 289 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent

	g Numb	er	727	Use only as an attachment to Form 4400-1	22.						Pa	ge 2	of	6
San	nple									Soil	Prop	erties		
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	uscs	Graphic Log Well	Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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Boring Number	727	00H Use only as an attachment to Form 4400-	122.							ge 3	of	6
Number and Type Length Att. & add Recovered (in) Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	l		Plasticity printer lindex	P 200	RQD/ Comments
	ļ <u>ā</u>	Steel Casing	D	<u>5</u> 7	M Di	- I	2 %	Σŏ	22	Pl	۵,	<u> </u>
	-33 -34											pump
	-35	Light- to medium-brown, fine grained SANDSTONE weathered										open borehole
	36											
	-37											
	-38 -											
	-39 -						:					
	-40 - - - -					:						
	-41 - - -											
	-42 - -43									:		
	-44											
	- - -45	contorted 1.25-inch void										
	-46											
	47											
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	- -49											
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Boring Number	727	00H Use only as an attachment to Form 4400	-122.							ge 4	of	6
Sample								Soil	Prop	erties		
Number and Type Length Att. & Recovered (in) Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	-53 -54 -55 -56 -57 -58 -60 -61 -62	«weathered zone with contorted dark-brown stained edges										
	-64 -65 -66 -67 -68 -70 -71	with gray bands with white bands										

Borin	g Numb	ег	727	00H Use only as an attachment to Form 4400-	122.						Pa	nge 5	of	6
Sar	nple									Soi		erties		
	& (<u>i</u>	ts	ğ	Soil/Rock Description					ပ္		ŀ			
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d Ty	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
Number and Type	3 %	面	ď	with white, dark brown and gray bands	Þ	្ន	ğά	PII	ပ္သန္	≱ రి	<u> </u>	F F	P 2	≚ ಬಿ
			-	with white, talk brown and gray bands										ļ
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			76 -	zone of tightly-spaced bedding planes followed by light-red-violet SANDSTONE with white spots										
			- 77	ngheted-violet SANDS FOND with white spots										
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			-78											
				zone of tightly-spaced bedding planes followed by light-red-violet SANDSTONE then more bedding planes										
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Boring Number	727	700H Use only as an attachment to Form 4400)-122.						Pa	ge 6	of	6
Sample								Soil	Prop			
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ount ed (n Fe	And Geologic Origin For		l			ssiv	g)		ا ج		nts
Number and Type Length Att. & Recovered (ir Blow Counts	Depth In Feet	Each Major Unit	CS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	nid Hit	Plasticity Index	8	RQD/ Comments
Number and Type Length Att. & Recovered (in) Blow Counts	Det		nsc	Grap Log	Well Diagr	OI d	Cor	Mo	Liquid Limit	Plastic Index	P 200	RQD/ Comm
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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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	y/Proje						*****			License	/Permit	t/Monito	oring l	Number	 -	Boring	g Numb			
			dale W																	anske Well
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WI Uı	nique W	ell No).	DNR	Well II	D No.	Common	Well Nat	me			ater Lev		1	e Eleva			Bo		Diameter
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	l		Eacl	h Major U	nit			S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	ture ent	Liquid Limit	Plasticity Index		RQD/ Comments
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This form is authorized by Chapters 281, 283, 299, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form

	ng Numb	er	730	25BG	Use only as an attachment to F	orm 4400-1	122.						Pa	ige 2	of	5
Sar	nple		1		0.170 1.00							Soi	Prop	erties		
	Length Att. & Recovered (in)	ıts	eet		Soil/Rock Description						ု					
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d Ty	ngtl scov	Blow Counts	Depth In Feet		Each Major Unit		USCS	Graphic Log	ell agra	PID/FID	Compressive Strength	istu	Liquid Limit	Plasticity Index	8	RQD/ Comments
Number and Type	7 %	<u> </u>	Ă	Steel Casing			5	2 2	ڲٚػ	III.	S 🛠	క ర	12,12	Fla Ind	P 200	2 5
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	Length Att. & Recovered (in)	uts	eet	Soil/Rock Description		1				ي					
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d T.	ngt	Blow Counts	Depth In Feet	Each Major Unit	USCS	ļģ',	. _	grar	Æ	npre	istur	計算	iticit X	9)/
Number and Type	73 %	ğ	ದ್ದಿ		OS	Graphic Log	≪	Dia	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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			- 36	SANDSTONE											open borehole
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		E	:	Reddish brown to red - violet, fine grained					ļ						
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Boring		er	730	25BG Use on	ly as an attachment to	Form 4400-	122.		,				<u> </u>	ge 4	of	5
Samj				0.77	Pauls December							Soi	Prop	erties		
	ii. &	nts	eet		Rock Description eologic Origin For						မွ					
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Lux	on Major Offic	ı	uscs	Graphic Log	ell iagra	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
<u> </u>	<u> </u>		<u>-</u>	mildly contorted, red -	violet zone with red bar	nds.	Ω	Q Z	<u> </u>	<u> </u>	22	<u> </u>	2 2	Pl: Inc	Ь	≥ 3
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	Use only as an attachment to Form 4	4400-122.					Pa	ige 5	of	5
Sample	0.770 1.0					Soi	Prop	erties		
If (in)	Soil/Rock Description And Geologic Origin For				٩		1			
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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-

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			dale W Name o		chief (first	, last) a	nd Firm	···		Date D	rilling S	Started		I	Date Dril			13; Str		g Well ling Method(s)
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Sar	nple	1				Soil/D	ock Descri	ntion							-	Soil	Prop	erties		
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form

Boring Number	729	Use only as an attachment to Form 4400-	122.							ige 2	of	6
Sample	1							Soi	Prop	erties		
Number and Type Length Att. & Recovered (in)	Feet	Soil/Rock Description And Geologic Origin For					ive					ø
Type (th A	h In	Each Major Unit	S	hic	ram	E	press gth	ture	- e	city		/ ment
Number and Type Length Att. & Recovered (ir Blow Counts	Depth In Feet		nscs	Graphic Log	Well Diagr	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	-	Steel Casing								<u> </u>		<u>-</u>
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Borin	g Numl	er	729	Use only as an attachment to Form 4400-	-122.							Pa	ige 3	of	6
Sar	nple										Soi		erties		
	જ (ii)	ts	ts	Soil/Rock Description						رو ا					
- 8.	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	And Geologic Origin For				اء	0	Compressive Strength	. دو		ج		nts
mpe_TZ	ngth	<u>`</u>	oth I	Each Major Unit	CS	Graphic Log		gran	/FII	npre ngth	istur	를 #	ticit	200	nme
Number and Type	Rec	Blo	Del		S O	<u> </u>	Well	Dia	PID/FID	Compres Strength	Moisture Content	Liquid Limit	Plasticity Index	P 2(RQD/ Comments
			-	Steel Casing											
			- -33												
			- 33												
			<u>-34</u>	Medium brown, fine grained SANDSTONE, highly	<u> </u>										open
			F 34	weathered, stiff.											borehole
			_ _35		į							}			
			<u> </u>									ĺ			
			<u>-</u> -36												
			- 30	4.4 inch void		D D									
			- -37	0.25-inch highly contorted open fracture											
			- 3/	1.5-inch void infilled with fractured med. to dark brown		P A									
			- 38	siltstone	ļ —										
1000			- 30	Dark red-violet, fine grained SANDSTONE with white spots	-							1			
			- -39	\light olive band with highly contorted red-brown spots	ļ										
			_ 39 - -	Red-violet, fine grained SANDSTONE with white spots											
			- 40		-										
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			- 41												
			-42	0.2-inch void						İ					
			- 42	angular dark brown spots											
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Boring Number	729	Use only as an attachment to Form 4400-	122.							ige 4		6
Sample	ļ	_						Soi	Prop	erties		
8 (II) 88	둟	Soil/Rock Description					o	}	ļ	İ		1
Number and Type Length Att. & Recovered (ir Blow Counts	Depth In Feet	And Geologic Origin For			_	_	ssiv	6	İ	>		nts
egt 13 %	l #	Each Major Unit	CS	phic	l gran	FIL	ngth	stur tent	달	x ticit	0	
Number and Type Length Att. & Recovered (in) Blow Counts	Det		uscs	Graphic Log	Wel Diag	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	Ę											
	F	void with dark brown contorted edges infilled with med brown siltstone								ŀ		
	<u></u> −53	0.1 inch void at bedding plane infilled with dark brown										
	E	siltstone then sheared and infilled with red-violet										
	- 54	sandstone Red-violet, fine grained SANDSTONE with white spots										
	E	and lines									İ	
	-55											
	-	December medium berum with accept 1			!]			
	-56	Becoming medium-brown with occassional gray-violet laminations										
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Boring Number	729	20H Use only as an attachment to Form 4400-	122.							ge 5	of	6
Sample		Call Day 1						Soil	Prop	erties		
Number and Type Length Att. & Recovered (in) Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For	S	,	ε	۵	essive h	8 J		ty		ents
Number and Type Length Att. & Recovered (in Blow Counts	Depth	Each Major Unit	uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	E	Red-violet, fine grained SANDSTONE with white spots and lines										
	E-73											
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	 74											
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	- 76											
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	E											
	⊢78 -	Contorted 0.25-inch void infilled with tightly laminated gray siltstone, rimmed with dark brown stains above and		A A A								
	E -79	yellowed, leached sandstone below		D A								
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	-82 -											
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Boring Number	729	Use only as an attachment to Form 4400-	122.							ge 6	of	6
Sample								Soil	Prop	erties		
Number and Type Length Att. & Recovered (in) Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
		End of Boring										

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			<u>Rc</u>	oute To:		ershed/V			_			gement								
					Kem	ediation	/Redeve	lopment [Other	LJ									
Facil	lity/Proje	ct Nan	ne					<u> </u>		License	/Permi	t/Monit	orina N	Tumbar		Porin	Pag Numb	_	of	5
	rmer B			orks						License	71 Cillu	UIVIOIII	Jing I	varrioci		PZ-39		ci(s)		
	_		Name o	f crew chi	ef (firs	st, last) a	nd Firm	1		Date D	rilling S	Started		D	ate Dril			l	Dril	ling Method(s)
	3ignall ilip En		menta	1 Service	es Co	orp					11/1	.8/200	2			11/21	/2002		4.2 6.0 (40	5" HSA (0'-40') " Water Rotary '-72')
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Facil	ity ID				County Bayfi				- 1	County C 4	ode	Civil	Town/C	ity/ or	Village	!				
Sa	mple	}								<u> </u>			Γ.	T		Soil	Prop	erties		
	જ (દો	l s	j t					scription						Ì						
٦ E	P A #	onu	n Fe				-	Origin For					_		SSiv	g .		<u>ج</u>		nts
Hollow Stem Auger logged from cuttings Number	Length Att. & Recovered (in)	Blow Counts	Depth In Feet			Eac	h Major	Unit			uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
8	480		 	Red bro	wn silt	y GRAV	EL with	cinders	.		GM	TE		-	001	20	шн	HH	<u>μ</u>	PZ-01S
uttir			F.					, gray, yello LT, ash, bri				3 3								bentonite grout
E			F ¹	cinders	iack ai	ia dark b	rown, Si	LI, asn, on	ck and	l		3 3								(0'-53.35') with 6"-ID
g th			F.								}	7 7								steel outer
ggo	f i	1	⊢ 2									3 3								casing set in grout
ger			F,									3 3								(0'-40')
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Ster			<u>-</u> 4									7 7 7								
llow			F									ج ج ج ج								
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	g Numl	er	PZ-	39	Use only as	an attachment to	o Form 4400-	122.							age 2		5
San	nple						į						Soi	l Prop	erties		
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		Soil/Rock l And Geologi Each Ma	c Origin For		uscs	Graphic Log	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			-13 -14 -15 -16 -17 -18 -19 -20 -21 -22 -23 -24 -25 -26 -27 -28 -29 -30	Void						Well Well Discourse to the Control of the Control o							

Borin	ng Numb	er	PZ-	Use only as an attachment to Form 4400-	122.						Pa	ige 3	of	5
Sar	nple									Soil		erties		
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
Water Rotary logged from cuttings	384		-33 -34 -35 -36 -37 -38 -39 -40 -41 -42 -43 -44 -45 -46 -47 -48 -49 -50	White and red layered, fine grained SANDSTONE; thinly to thickly bedded, moderately weathered, weak to stiff.										

Borir	ng Numl	er	PZ-	Use only as an attachment to Form 4400-	122.							F	age 4	of	5
Saı	mple										Soi		perties		
	Length Att. & Recovered (in)	ıts	i i	Soil/Rock Description						0			1		
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Number and Type	ngth cove	Blow Counts	Depth In Feet	Each Major Unit	uscs	phic	_	Diagram PID/FID		npre	istur	pin :	z gi	8	m G
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			þ	White and red layered, fine grained SANDSTONE; thinly to thickly bedded, moderately weathered, weak to		### #### #### #### #### #### #### ##### ##### #### #### ##### ######					,				
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			- 55												(55.55-56.55)
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I			_ 57												<u> </u>
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			- 58												
	i l		- 38				*****	****							
			- 59												PZ-01S very fine sand
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			- "												(59.35-72')
10.		Ì	- -61							Ì					
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		į	- ₆₂												PZ-01S slotted well
			- 02												screen (61.35-71.35')
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San	nple			g ym i n						Soi	Prop	erties	1	
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Each Wajor Offic	USC	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			<u>R</u>	oute To:	Wa	atershed/	Wastewater				gement								
					Re	mediation	n/Redevelop	pment \square	Other										
																Pa	ge 1	of	4
	ty/Proje			7. 1.					Licens	e/Permi	t/Monit	oring N	umber		1	g Numb	. ,		
	mer B				hief (fi	irst last)	and Firm		Date D	rilling	Started		ימו	ate Dril		O, PZ		Deit	ling Method(s
J.B	- ignall			al Servi	•	•			Duic D	_	5/200	2				-			mig Method(s 5" HSA (0'-40') " Water Rotary '-71')
	nique W				Well I		Common	n Well Name	Final S		ater Lev		Surfac	ce Eleva	11/19/	/2002	Bo		Diameter
	•								1		eet M			566.45		MSL			3 inches
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Sar	nple	<u> </u>	Π		<u> </u>					Τ					Soil	Prop	erties		
	T _	1				Soil/I	Rock Descr	iption							Γ				
6)	ed (i	Į į	Fee			And G	eologic Ori	gin For		-				sive					ts t
Typ er	Length Att. & Recovered (in)	ပို	Depth In Feet			Ea	ch Major U	Init		CS	hic	Tan	Œ	pres	sture ent	E T	icity	0	men
Nun	Length Att. Recovered (Blow Counts	Dep							S O	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
Hollow Stem Auger logged from cuttings Number and Type	480		E	1		-	orted mediur	n-fine graine	d, dark	SM				1					Two
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	g Numi	er	PZ-	Use only as an attachment to Form 4400-	·122.							Pa	age 2	of	4
Sar	nple										Soi		erties		
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic	Log	Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			-13 -14 -15 -16 -17 -18 -19 -20 -21 -22 -23 -24 -25 -26 -27 -28 -29 -30	Layered, fine to medium grained, red-brown, silty SAND with gravel AND moist, moderately stiff low plasticity, red to tan SILT with angular gravel fragments	SM/ ML										PZ-38O bentonite (0'-22.34') PZ-38O bentonite seal (22.34'-27.34') PZ-38O seand filter pack (28.34'-41.00') PZ-38O slotted well screen (30.34'-40.34')

	ng Numl	ber	PZ-	Use only as an attachment to Form 4400-	-122.						Pa	ge 3	of	4
Sar	mple		ł							Soil	Prop	erties		
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ype	h At	Con	l ii	Each Major Unit	S	و.	E E	<u>e</u>	essi			<u>≥</u>		ents
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Zuon Major Omi	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
		_ н	 "	Layered, fine to medium grained, red-brown, silty	1.2	0 1	MO	_ B	ON	ΣÜ	22	교표	<u> </u>	<u> </u>
			-33	SAND with gravel AND moist, moderately stiff low plasticity, red to tan SILT with angular gravel fragments										
			<u> </u>				目目							
ı			-34											
			−35		SM/									
			<u>-</u> 36		ML			i						
			E											
J			E-37											
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			39	Medium brown, fine grained SANDSTONE; weathered,										1
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Water Rotary logged from cuttings			-43			***************************************		ĺ						
Water			_44				İ				l			
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			-48		000000000000000000000000000000000000000			ļ		ŀ				PZ-38D bentonite
1		Ė	-49		200						ĺ			grout (0'-52.68') with 6"-ID
		Ė												steel outer
		Ė	-50			K								casing set in grout (0'-41')
		Ė												(0'-4 1')
		þ	-51											
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Borin	g Numl	er	PZ-	38 Use only as an attachment to Form 4400-	122.						Pa	ge 4	of	4
San	nple									Soil		erties		
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			-53 -54 -55 -56 -57 -58 -60 -61 -62 -63 -64 -65 -66	White and red layered, fine grained SANDSTONE; thinly to thickly bedded, moderately weathered, weak to stiff. End of Boring										PZ-38D bentonite seal (52.68'-57.68') PZ-38D very fine sand (57.68-58.68') PZ-38D sand filter pack (58.68-71') PZ-38D slotted well screen (60.68-70.68')
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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			K	oute To:		/Wastewater ⊔ on/Redevelopment ☐]	Other		igement								
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	ty/Proje							License	/Perm	it/Moni	toring l	Numbe	r		g Num	ber(s)		
	mer B				1:0.0				····			- T					fice Po	otable Well
	-	a By:	Name	of crew c	chief (first, las	st) and Firm		Date D	rilling	Started		Da	te Dril	ling Co	omplete	ed	Drii 12	ling Method(8 'Drill&Drive(0-26)
	otto lip En	viron	ment	al Servi	ces Corp				11/1	14/200	2			12/3/	2002		9.8	ling Method(s 'Drill&Drive(0-26 8"Rotary(26-181) "Rotary(181-260) "Rotary(260-303)
	nique W				Well ID No.	Common Well Na	ame	Final S				Surfac	e Elev			В	orehole	Diameter
									Feet	MSL		6	57.83				5.8	8 inches
•	Grid On Plane	rigin			□) or B, 1,734,03	oring Location 2 E S/C/N		L	at	•	1		Local	Grid L	ocation			
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Facili		-			County	1 10 11,110		County C		Civil'	Town/C	City/ or	Villag					
			,	<u> </u>	Bayfield			4			·							
Sar	nple									}				Soi	l Prop	erties		
ĺ	જ <u>(i</u>	ıts	#			Rock Description			}				e e					
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	<u> </u>	Ea	ach Major Unit			sc	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
Žξ	3636	<u> </u>	Ã	Loosa	rad madium t	o coarse, silty, sandy	CDA	VEI	D	G G	ÄÄ	PI	ರ ಪ	≱ ວັ	<u> </u>	로트	À	ヹ゚゚゙゙゙゙ヹ 12" steel
Air Rotary logged from cuttings	3030		Ę		ed granite fill)	o coarse, sitty, sailuy	JICA	V EL,	GP									driven
u Cm			<u> </u>	Moist,	stiff, red, silty	CLAY; trace gravel							ļ					0-25.5 10" steel set
fron			E										1	l	İ	:		in grout 0-180
pag			<u> </u>											•				6" steel set
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet			•		USCS	Graphic 1 og	₹ ₹	Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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Borir	ng Numl	ber	PZ-	16PO Use only as an attachment to Form 4400	-122.						Pa	ge 3	of	16
	nple					1			Ī ^{m.}	Soil		erties		
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	nscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength		Liquid Limit	ty	P 200	RQD/ Comments
			-33 -34 -35 -36 -37 -38 -39 -40 -41 -42 -43 -44 -45 -46 -47 -48 -49 -50	Medium brown, fine grained SANDSTONE; weathered, very weak to stiff. Red - violet, fine grained SANDSTONE with white zones; unweathered										

Borin	ıg Numl	oer	PZ-	16PO τ	Jse only as an atta	achment to Form 4	4400-122.						Pa	ge 4	of	16
	nple		į		•				T			Soi	Prop	erties		
	ii) &	s			Soil/Rock Descri	iption			ļ		(1)					
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet				USCS	ja o	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			-	Red - violet, fin	e grained SANDS	TONE with white	- -	0 1			08	20	17 1	111111	<u> </u>	<u> </u>
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Borin	ng Numl	ber	PZ-	16PO	Use only	as an attachi	ment to Form	n 4400-	122.						Pa	ige 5	of	16
Saı	mple													Soi	Prop	erties		
	Length Att. & Recovered (in)	ts	#			ck Description							မွ					
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Number and Type	ligth Cove	Blow Counts	Depth In Feet		Each	Major Unit			USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
ž g	그씨	B	ă	Dod violet	fine ensined	CANDOTOR	NE with white	\rightarrow	Ω	23			ರ ಪ	≱ ೮		E E	<u>a</u>	<u> </u>
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	ng Num	ber	PZ-	-16PO Use only as an attachment to Form 4400	-122.							ge 6		16
Sar	nple									Soil	Prop	erties		
	. & (in)	nts	eet	Soil/Rock Description					e X					
er De	Att ered	Cour	In F	And Geologic Origin For Each Major Unit	S	. <u>.</u> 2	[ressi th	2 2	<u> </u>	ity		ents
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Each Major Onit	uscs	Graphic Log	'ell iagra	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
Zä	7 8	B	_	Red - violet, fine grained SANDSTONE with white	<u> </u>	נ פ	Well Diagram	邑	0 8	≥ 0		교트		<u> </u>
			<u> </u>	zones; unweathered					ļ		ĺ			
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Borir	ng Numl	oer	PZ-	16PO	Use only	as an attachn	nent to Form	4400-122.							age 7		16
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	a (ii	S.	t l			ck Description				ĺ		۵					
ø	ed if	ğ	Fe.	i	And Geol	logic Origin	For					SSiv			_	İ	lts
Typ Per	yer X	ರ	th Ir		Each	Major Unit		CS	hịc			ngth	e št	ᇢ,	, ici x	0	me.
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet					USCS	Fig. 8	Vell Siag	PID/FID	Compressive Strength		Liquid	Plasticity Index	P 200	RQD/ Comments
			F	Red - violet,	fine grained	SANDSTON	E with white	+-		well with the control of the control		0 0,			 	 	
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Sar	nple												Soi	Prop	erties		
	Length Att. & Recovered (in)	23	, se			c Description						ၑၘ					
г 8 "	Att.	un _o	n Fe			gic Origin F	or	10		E	۵	essiv h	6 T		<u> </u>		ents
Number and Type	ngth cove	Blow Counts	Depth In Feet		Each N	lajor Unit		USCS	Graphic Log	ili igrai	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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	8. Œ	ıts	eet	Soil/Rock Description					<u>و</u> [
ъе УБ	ered	Cour	In F	And Geologic Origin For Each Major Unit	S	ု့ပ	₌		ressi th	일 ;		ity		ients
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Each Major Omt	uscs	raph 8	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
Zā	그때	В	<u> </u>	Red - violet, fine grained SANDSTONE with white	<u> </u>	9 7		[A	ပြော	≥ 0	77	교표	Ь	<u> </u>
			-	zones; unweathered										
			153						ĺ					
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			E ├─155	Light reddish brown to medium brown, fine grained	ļ									
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Borin	ıg Numl	oer	PZ-	16PO Use only as an attachment to Form 4400)-122.						Pa	ge 10	of	16
	nple									Soi		erties]
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	SOSA	Graphic Log	Well Diagram	PID/FID	Compressive Strength	I		ty	P 200	RQD/ Comments
			-173 -174 -175 -176 -177 -178 -179 -180 -181 -182 -183 -184 -185 -186 -187 -187 -188 -189 -190 -191	Red-violet, fine grained SANDSTONE; with occasional white and brown zones			Well somewhat was a second state of the second seco							end 10" ID casing

Borin	ıg Numl	ber	PZ-	16PO Use only as an attachment to Form 4400) <u>-122</u> .		_						ge 11		16
	nple										Soi		erties		
			ا با	Soil/Rock Description											
	π. δ d (i)	ınts	Fee	And Geologic Origin For]	İ			ive					<u> 22</u>
ype er	h A	Š	In In	Each Major Unit	S	. <u>2</u>		띭	Д	Se 45	in El		city		nen
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		USCS	Graphic 1 or	رة 100 ك	ag .	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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			F	Red-violet, fine grained SANDSTONE; with occasional white and brown zones]			
			F	winte and brown zones			=					1			
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III		i	-	Dark red-violet, fine grained SANDSTONE											
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		Ē	_209	Red-violet, fine grained SANDSTONE											
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Borir	ng Numi	ber	PZ-	16PO Use only as an attachment to Form 440	0-122.							Pa	ge 12	of	16
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Typ.	gth,	Blow Counts	Depth In Feet	Each Major Unit	CS	phic		ia i	FIL	npre, ngth	stur tent	E E	ticit	2	
Number and Type	Length Att. & Recovered (in)	Blo	Dep		uscs	Graphic Log	≪ K		PID/FID	Compressive Strength	Com Moi	Liquid	Plasticity Index	P 200	RQD/ Comments
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			-217	Light red-violet, fine grained SANDSTONE	 										
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H.			-												
			-222	Dark red-violet, fine grained SANDSTONE; with white,	_										
			:	gray, and brown zones					İ						
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		Ė	[]	Reddish-brown fine grained SANDSTONE; with white zones											
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Borin	ıg Numl	ber	PZ-	16PO Use only as an attachment to Form 4400	-122.						Pa	ge 13	of	16
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		USCS	Graphic Log] કું ટ્ર	Diagram PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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Borin	ıg Numl	ber	PZ-	16PO Use only as an attachment to Form 4400)-122.							Pa	ge 14	of	16
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Each Major Unit	USCS	Graphic 7		ir Igrai	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	8	RQD/ Comments
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			-	Reddish-brown fine grained SANDSTONE; with white zones											
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Borin	ng Num	ber	PZ-	Use only as an attachment to Form 440	0-122.						Pa	ge 15	of	16
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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Borin	ng Numi	ber	PZ-	-16PO Use only as an attachment to Form 4400-	122.						Pa	ge 16	of	16
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r s	Att	uno	In Fe	And Geologic Origin For	S	ا د	E		essiv h	2 -		<u>.</u>		ents
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Each Major Unit	S C	Graphic Log	age age	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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	1		Ę	zones										
[293	White fine grained SANDSTONE										
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State of Wisconsin Department of Natural Resources

SOIL BORING LOG INFORMATION Rev. 7-98

Form 4400-122

			<u>R</u>	oute To:	Watershed Remediation		vater velopment]	Waste Other		agement	. 🗆							
								_		_						Pa	ge 1	of	16
	lity/Proj								License	e/Perm	it/Moni	toring	Numb	er	1	g Num	ber(s)		
	rmer E				nief (first, la	et) and F	Firm		Date D	rilling	Started		IT.	Date Dril) Nola		emes	Well
	Gotto	JU 27.	rvanie	or crew or	1101 (11136, 14	st) and 1			Date D	ming	Stated			alc Dili	inig Cc	mpicu	ď	12	lling Method(s "Drill&Drive(0-26 .8"Rotary(26-179) 3"Rotary(179-260) "Rotary(260-303)
					es Corp						15/200				10/23	/2002		9.8 5.8	"Rotary(179-260) i"Rotary(260-303)
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					Bayfield				4	, o u			on, c	, , , , , , , , , , , , , , , , , , ,		_			
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Borin	ng Numl	ber	309	Use only as an attachment to Form 4400	-122.						Pa	ige 2	of	16
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		į	-207	White, fine grained SANDSTONE.												
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Borin	ıg Numl	oer	309	00N Use only as an attachment to Form 4400)-122.							Pa	ge 12	of	16
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Borin	g Numl	ber	309	00N Use only as an attachment to Form 4400	-122.							P	age 15	of	16
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Borin	ng Numi	ber	309	Use only as an attachment to Form 4400)- 122.						Pa	ge 16	of	16
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State of Wisconsin Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

			<u> </u>	oute To:		wastewater L	: 🗆	Other		gement	Ц					1		17
Facilit	y/Proje	ect Na	ne	·				License	/Perm	it/Monit	oring	Numbe	r	Borin	Pa g Numi	ge 1	of	17
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_		ed By:	Name	of crew ch	ief (first, las) and Firm		Date D	rilling	Started		D	ate Dril	ling Co	mplete	ed	Dril 11.	ling Method(s 8"Rotary(0-59) 'Drill&Drive(59-8)
	otto			al Camila	aa Cam				10/2	1/200	2			11/12	/2002	ì	10° 9.8	'Drill&Ďrive(59-8] "Rotary(81-262) "Rotary(262-323)
	ique V			al Servic	es Corp ell ID No.	Common Well	Name	Final S		1/200 ater Le		Surfac	ce Elev	11/13 ation	12002			*Rotary(262-323) Diameter
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Number and Type	ngth	Blow Counts	Depth In Feet		Ea	ch Major Unit			sc	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plastic Index	P 200	RQD/ Comments
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Logged from cuttings	3870			WOIST TO	ary, sum, red	, siny CLAT, track	e gravei		CL									set in grout 0-262 10" ID steel set in grout 0-114 1" pvc pump piping
hereb	y certii	fy that	the inf	ormation o	n this form i	s true and correct	to the b	est of m	y knov	vledge.		<u>. </u>	<u> </u>	1	·			
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This form is authorized by Chapters 281, 283, 280, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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ŀ			-13	Moist, loose	e, fine-mediu	m, red to red	l-brown, silty	,		1025							1	<u> </u>	-
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				boulder @ 39										
			- -39	Moist to dry, very dense, dark-brown to brownish-gray,										
	1		-	fine, silty SAND; little black, rounded, fine, gravel (Till)										
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Sample Soil/Rock Description And Geologic Origin For Each Major Unit Bac	Bori	ng Numi	ber	296	00N Use only as an attachment to Form 4400)-122.						Pa	ge 4	of	17
And Geologic Origin For Each Major Unit Sum of the description of E	Sa	mple									Soi	l Prop	erties		
Moist to dry, very dense, dark-brown to brownish-gray, fine, silty SAND; little black, rounded, fine, gravel (Till) dense, light-brown to brown, fine to medium SAND, trace gravel and silt -54 -55 -56 -57 -58 -59 -60 -61 -61 -62		æ (îi	60		Soil/Rock Description										
Moist to dry, very dense, dark-brown to brownish-gray, fine, silty SAND; little black, rounded, fine, gravel (Till) dense, light-brown to brown, fine to medium SAND, trace gravel and silt -54 -55 -56 -57 -58 -59 -60 -61 -61 -62	0	Sd (i	du Ç	F	And Geologic Origin For					Sive					Į s
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			-86	dense, light-brown to brown, fine to medium SAND,									
	1	į	-	trace gravel and silt									
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	ĺ	ļ	-88 -										
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Borir	ıg Numl	oer	296	Use only as an attachment to Form 440	00-122.								Pag	ge 6	of	17
Sar	nple										So	l P	rope	erties		
	3 <u>(ii</u>	S	ಕ	Soil/Rock Description					i	₆₀						
o	ed (ğ	Fe	And Geologic Origin For				_	_	ssiv				>		nts
Typ	gth ,	Ŭ	th II	Each Major Unit	CS)ji	_	, E	Æ	ngth	Stur.	<u> </u>	ا ہے۔ 🖺	ticit	9	i iii iii ii
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		USCS	Graphic	3 3	wen Diagram	PID/FID	Compressive Strength	Moisture	.5	Limit	Plasticity Index	P 200	RQD/ Comments
			F	dense, light-brown to brown, fine to medium SAND, trace gravel and silt				***								
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	l		-103	dense, light-brown to brown, fine to medium SAND,		**										
				trace silt, some gravel and cobbles	ļ			33333								
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Borir	ng Numi	ber	296	00N Use only as an attachment to Form 440	0-122.						Pa	ge 7	of	17
Sar	mple						!			Soil	Prop	erties		
	& Œ	ts.	g	Soil/Rock Description					စ္					
_ 2.	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	And Geologic Origin For	,,	,	g		ssiv	<u>.</u> و		<u>5</u>		uts
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Number and Type	R E	Blo	Del		S U	5 3	Well Diagram] I	Compressive Strength	<u>કૈં ઉ</u>	Liquid Limit	Plastic Index	P 200	RQD/ Comments
			<u> </u>	dense, light-brown to brown, fine to medium SAND, trace silt, some gravel and cobbles										
			- -113	trace siit, some graver and coobles	SP									
			E 113		SF									
			ا ا											
i			-114 -	Light- to medium-brown, fine grained SANDSTONE;				á			ļ			end 10" ID casing
			- -115	highly weathered										Cusing
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Borin	g Numl	oer	296	00N Use only as an attachment to Form 4400	-122.							Pa	ge 8	of	17
Sar	nple										Soi	Prop	erties		
	Length Att. & Recovered (in)	Ş	set	Soil/Rock Description						,e					
<u>ہ</u> ع	Att	omo	In Fe	And Geologic Origin For	· ·	ا ا		e 6	ا ہ	essiv h	5 7		Į.		ents
mbe i Ty	ngth	Blow Counts	Depth In Feet	Each Major Unit	uscs	Graphic Log	-	agra J	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
Number and Type	2 %	<u> </u>	ದ್ದಿ		Ω	53	ĭ ĭ	اق		St S	<u>ઍ</u>	<u> </u>	Pla	Ρ2	<u> </u>
			-	Light- to medium-brown, fine grained SANDSTONE; highly weathered				***							
			E -133	inginy weathered				***							
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			140	Red and white layered, fine grained SANDSTONE.											
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Borin	g Numl	ber	296	OON Use only as an attachment to Form 4400)-122.							1	Page	e 9	of	17
Sar	nple										Soi	l Pro	pe	rties		
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. 9	Att.	omu	n Fe	And Geologic Origin For		İ .			_	ssiv	es.			ا ج		nts
Per Ty	gth	Blow Counts	Depth In Feet	Each Major Unit	CS	phic		gran	/FII	npre	stur	Ę.	<u>.</u> :	x Eci	8	li e
Number and Type	Length Att. & Recovered (in)	Blo	Dep		USCS	Graphic Log	``ee	Dia	PID/FID	Compressive Strength	Moisture Content	<u>.</u>	; <u>ڦ</u>	Plasticity Index	P 200	RQD/ Comments
			E	Red and white layered, fine grained SANDSTONE.												
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			162	White												
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			-164	Light reddish-brown to pink										ŀ		
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Borin	ng Numi	ber	296	00N Use only as an attachment to Form 4400)-122.							Pa	ge 10	of	17
	nple						1				Soi		erties		
	a	s,	₁₅	Soil/Rock Description											
4)	la it	unt	Fee	And Geologic Origin For						Sive			_		lts
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		USCS	Graphic I or	\$ \g	Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plastic Index	P 200	RQD/ Comments
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			177	XXII. */											
			E	White											
			178												
			F	Light reddish-brown to pink											
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Borin	ng Numl	ber	296	00N Use only as an attachment to Form 4400	-122.						Pa	ge 11	of :	17
	nple			•						Soi		erties		
Number and Type	r. & (ji)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	nscs	Graphic Log	Well	Diagram PID/FID	Compressive Strength			ty	P 200	RQD/ Comments
			-193 -194 -195 -196 -197 -198 -199 -200 -201 -202 -203 -204 -205 -207 -208 -209 -210 -211	Light reddish-brown to pink Grey, fine grained SANDSTONE Reddish brown to red - violet fine grained SANDSTONE										

Borin	ng Numl	oer	296	00N Use only as an attachment to Form 440	0-122.							Pa	ge 12	of	17
Sar	nple										Soil		erties		
	ŝ. jij	"		Soil/Rock Description											
0	# D	unts	Fe	And Geologic Origin For						Sive					lts
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		USCS	Graphic Log	Well	Diag	PID/FID	Compressive Strength	Moisture Content	Liqu	Plasticity Index	P 200	RQD/ Comments
			E	Reddish brown to red - violet fine grained											
			اا	SANDSTONE											
1			-213												
			ΕÌ		l										
			-214	Grey, fine grained SANDSTONE	-										
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l II			-215												
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	1 1		-216												
- 1			E J												
I			-217												
II.			F	Reddish brown to red - violet fine grained SANDSTONE											
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Borin	g Numl	oer	296	00N	Use only as an attachment to Form 4	4400-122.							Pa	ge 13	of	17
	nple							Γ			So	il P		erties		
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		•	USCS	Graphic Log	e Fe	Diagram PID/FID	Compressive Strength	Moisture	[]	Limit	Plasticity Index	P 200	RQD/ Comments
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Boring Nu	ımbe	r	296	00N	Use o	nly as an :	attachment	t to Form 44	00-122.							Pa	ge 14	of	17
Sample						<u>,</u>			T		1	Т			Soi		erties		T T
Number and Type Length Att. &		Blow Counts	Depth In Feet		And C	Rock Des Seologic C Ich Major	Origin For		USCS	Graphic Log	Well	Diagram PID/FID	Compressive	Strength	Moisture Content		£.		RQD/ Comments
			-253 -254 -254 -255 -256 -257 -258 -259 -260 -261 -262 -263 -263 -264 -265 -265 -267 -268 -267 -268	White															Open borehole 262-323

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	nple												Soi	l Prop	erties		
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d)	g H	unt	Fee		And Geole	ogic Origin Fo	Or .					Sive	١				ıts
Lyp ber	ver it	ರ	h In		Each l	Major Unit		S	hic	ram	₽	pres	en ter	<u>ـ قا</u>	icit		mer /
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet					USCS	Graphic Log	Vell Diag	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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Borin	ng Numl	ber	296	Use only as an attachment to Form 4400	-122.						Pa	ge 16	of	17
Sai	nple									Soil	Prop	erties		
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Number and Type	Length Att. & Recovered (in	Blow Counts	Depth In Feet	Each Wajor Onit	uscs	Graphic Log	e l	PID/FID	Compressive Strength	Moisture Content	quid	Plasticity Index	P 200	RQD/ Comments
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			Ę į											
			-296 -	Dark reddish brown, very fine grained SILTSTONE										
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			-308	Red-violet to gray, fine grained SANDSTONE; very										
			-	dense										
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Number and Type	Length Att. & Recovered (in)		BIOW COUNTS	Depth In Feet		usc	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/
				-313	Red-violet to gray, fine grained SANDSTONE; very dense										
				-314											
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