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	c/	ם וור				PAGE 4		of _	4			
Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Amberit - Court, Suite 204 Naperville, Minola - 60565	SOIL BORING LOG					DATE <u>DR</u> LOGGED BY <u>1/30-31/2012</u>						
Naperville, Illinois 60565 (630) 355-2838							-			2		
					a distant	GSI JOB No						
ROUTE FAP 353 (US 30)							-91-	046-	-12			
SECTION 11-Y-A										_		
COUNTY Cook	DRILLING I	METHOD _	Hollo	w Stem Auger/Rotar	у намме	R TYPE <u>Die</u>	drich	Auto	omati	c		
STRUCT. NO	D	ви	м	Surface Water Elev.	<u>n/a</u>		ь	в	U			
Station	E	LCS	0	Stream Bed Elev.	n/a		Ē	L O	CS	L		
BORING NO. <u>BS-10</u> Station <u>282+75</u>	T	W Qu	Ś	Groundwater Elevatio First Encounter	n: 626.5	T	Т	¥s	Qu	l		
Offset 22.5' Right			÷	Upon Completion	<u>n/a</u>		н	-		L		
Ground Surface Elev. 632.5	(ft) (,	/6") (tsf)	(%)	After Hrs.		<b></b>	(ft)	(/6")	(tsf)	(		
	-						_					
Run 1 continued.	_	RUN 1										
5	10.5		_				L			T		
Silurian System, Niagaran Series Dolo RUN 1 (—122.0' to —127.0')	omite —						_			t		
Light gray & fine grained with horiz	zontal						1			I		
bedding becoming light gray mottled gray & slightly porous @ -122.3'.							-	_		ł		
ray & signity porous @ -122.3. Horizontal fractures @ -124.3', -124 -125.0', -125.7', -125.9' & -126.3'	<sup>1.8',</sup> –125	RUN 2					-145					
-123.0, -123.7, -123.9 & -126.3	· _						1			T		
Recovery=100.0% RQD=90.0%	_									I		
5	05.5						1			t		
End Of Boring @ -127.0'	-	+	_				_			ł		
Hollow Stem Augers To -10.0' Rotary Drilling To Completion										I		
114.0' Of 4.0"ø Casing Used CME Automatic Hammer		+	_							ł		
	-130						-150			I		
	_						_			t		
	_									I		
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	-135						-155			I		
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	-140						-160					
The Unconfined Compressive Strength (UCS) Failur									Shear	4		

		PAGE 1	of	2	1 1	K
Geo Services Inc.	ROCK CORE LOG	DATE DR				Geo Servi
Geo Services, Inc. Geotechnical, Environmental & Givil Engineering 805 Ambergi Court, Squite 204 Naperville, Minals (6555 (630) 355-2838		LOGGED BY	<u>    1/30–3</u>	1/2012		Geotechnical, Environme 805 Amberat Co Naperville, Illi
(630) 355+2838		GSI JOB No	o. <u>09174</u>			(630) 35
ROUTE FAP 353 (US 30)	DESCRIPTION US Route 30 @ EJ&E/CN	Railroad, IDOT Job No. [	0-91-046	-12		ROUTE FAP 353
SECTION 11-Y-A	LOCATION SEC 20 & 29. T 35 N. R 15	E. 3rd PM				SECTION 11-Y-A
COUNTY Cook	CORING METHOD <u>Rotary Wash</u>					COUNTY Cook
STRUCT. NO	_ CORING BARREL TYPE & SIZE <u>NX Doub</u>		R R E .	C S		STRUCT. NO
Station	Core Diameter <u>2.0 in</u> Top of Rock Elev. <u>520.5</u>	P R T E	0.	R R ET E		Station
BORING NO. <u>BS-10</u> Station <u>282+75</u>	- Begin Core Elev. <u>520.5</u>	H	E .	I N M G		BORING NO. BS Station 282+7
Offset 22.5' Right	-		RY	E T (min H		Offset 22.5' Ri
Ground Surface Elev. 632.	<u>i</u>	(ft) (#)	(%) (%)		2	Ground Surface
Silurian System, Niagaran Series Do	lomite	- 1	99.0 96.	n/a 1149 (	7	Silurian System, N
RUN 1 (-112.0' to -122.0') Gray & fine grained with horizonto	I bedding becoming light gray mottled gr	ay & slightly				RUN 1 (-122.0' t Light gray & fin
porous @ -116.2', changing to light	gray & fine grained with horizontal bed 6.5', -117.4', -117.8', -118.0', -118.6', -	ding @ -119.2'.				slightly porous @ -125.9' & -126.3
-119.8'.	5.5, -117.4, -117.8, -118.0, -118.8, -	-119.1 % -				-123.9 & -120.
		-117				
		_				
		_				
		-				
		_				
		-122				
1 miles						
	35-10 09	174 7				
		and the second se				
	RUNI -112.0'to-122.	0'				
100 E						
	TOP	Read -				
		- A				
						1
		14-01-5-				1
	The second se	Provide and				1
1 25	C. Alta P					1
Sector 1		1 11				1
A MARKED	3-1)	Martin Martin				1
		and the second				1

Color pictures of the cores Yes\_\_\_\_\_ Cores will be stored for examination for \_\_\_\_\_\_ The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938) Color pictures of the The "Strength" colum



 AME =
 DESIGNED - EVS
 REVISED

 CHECKED - WJV
 REVISED

 CALE =
 DRAWN - EVS
 REVISED

 ATE =
 CHECKED - WJV
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 ATE =
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Des, Inc. ROCK CORE LOG DA				DATE _	ATE DR							
ces, Inc. ntol & Civil Engineering aurt, Saite 204 nois 60565				LOGGED	BY	1/3	0 <u>-3</u> 1	/201	2			
hois 60565 5+2838				GSI JOE		-						
(US 30)	DESCRIPTION US	Route 30 m	EJ&E/CN Railroad, I					-12	_			
		10 0.000 0.000 0.000		1	0. 0	31-	<u></u> _	12	_			
			5 N. R 15 E. 3rd						-			
	CORING METHOD	÷ •			С	R	R	С	S T			
			NX Double Swivel-	<u>-10 ft</u> E P T	0	E C O	à	O R	TR			
-10	Core Diameter _ Top of Rock Elev				R	o v	ċ	ÊT	RENG			
<u></u>	Begin Core Elev.	510.5		"		E		M	G			
aht						R Y		E (min	T H			
lev632.5				(ft)	(#)	(%)	(%)	/ft)	(tsf)			
liagaran Series Dol	omite			_	2	100.0	90.0	n/a	819 <b>0</b> -122.0			
o –127.0') a grained with hori	zontal bedding bec	omina liaht	aray mottled aray	*								
-122.3'. Horizonta	I fractures ♥ -124	.3', -124.8'	gray mottled gray , —125.0', —125.7',									
<i>.</i>												
				-127								
				<u>–127</u>								
				-								
				-								
				-								
				-132								
			7	-102								
150	C 10											
B.	5-10		09174	-								
-		77 1'	1-17-2									
K	(UN 2 -1	22.0'7	6 1210									
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15 million	- dealer in the			-								
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		A CONTRACTOR	-	-								
		and the little										
e cores <u>Yes</u> mn represents the u			xamination for <u>—</u> the core sample (AST	M D-2938)								

G LOGS	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
. 016–1280	353	11-Y-A	COOK	354	274				
. 010–1200	CONTRACT NO. 60R19								
25 SHEETS	ILLINOIS FED. AID PROJECT								