



FROEHLING & ROBERTSON, INC.

GEOTECHNICAL · ENVIRONMENTAL · MATERIALS
ENGINEERS · LABORATORIES
"OVER ONE HUNDRED YEARS OF SERVICE"

N.C.D.O.T. GEOTECHNICAL UNIT BORING LOG

PROJE			12601			ID.	B-386				ــــــــــــــــــــــــــــــــــــــ	UNT	/ Joh	nston				GEOLOGIST C.		
	ESCRIP		Bridge	No. 21						100	2						T			D WATER (ft
BORIN	BORING LOCATION 20+43								 				4.	ALIGN	ALIGNMENT -L- 0 HR.		N/A**			
COLLAR ELEV. 103.6 ft				NORTHING 631,530								EASTING 2,254,690				0			24 HR. 2.0	
TOTAL DEPTH 27.5 ft DRILL						LL MACHINE CME 55 Track DRILL						METHOD 2.25" ID HSA				HSA	VNQ3 Core HAMM		ER TYPE Automatic	
DATES	TARTE	D 6/	20/03		,	CO	MPLET	ED (6/23/0	3		SUR			RI		TH N/	A		
ELEV.	DEPTH	BL	ow cor		1				ER FO				SAM	•. ▼	4	0		SOIL AND ROCK	DESCRIPTION	NC
(ft)	(ft)	0.5ft	0.5ft	0.5ft	0	20) 	40 	60		80	10	о по	M		G				
																l		•		
103.6ft							Gr	hund	Surfa	ce							103.6ft			
	0.0	WOH	1	1	2									M	7		•		UVIAL-	OII T (A A)
400	- - 3.5				: :					· · ·	: :			_			101.1ft	Brownish-gray, fine to o with so	me clay.	SIL1 (A-4),
100 -		WOH	1	1	į ėż						· ·			W	<i>'</i>		-	-RES	DUAL-	
	-				: :					 							•	Light gray & reddis with some fir	h-brown, SILT e sand & clay	「(A-4), ′.
95 -	8.5	10	60/0.4	<u> </u>	↓ :L:												- 94.6ft 93.9ft			
-	-	10	00/0.4								6	50/0.4'			E S		93.9ft	-WEATHE Gray, severely weath	RED ROCK- pered, modera	itely hard
-	- -				: :										Ē	国		FELSIC ME	TAVOLCANIC	
90-	-				: :						: :		RS-	3	Ė			-NON-CRYST	ALLINE ROC	K-
•	_				: :					 			ŀ		F		•	Gray, slightly v FELSIC ME	weathered, ha ΓΑ <mark>VOLCAN</mark> IC	ird
	.				: :				. <i></i> 	 					Ē	国	-			
85 -	_				1::									-	F		-			
-	-														Ē		- , 			
80 -	_				: :								ŀ				81.1ft			
-	-				: :					 				1.	Ē		•	Gray, moderatel	y weathered, FAVOLCANIC	hard
-	-				: :										F		- 76.1ft	, 220,0 112		•
-	-																	Coring terminate in NON-CRYS	TALLINE RO	I feet CK
-	- - -															ļ	- -	(FELSIC ME	TAVOLCANIC	;).
-	- -																- -	Notes: 1) Geologist indicates s	trata break in	split
_	- -																- 	spoon at 9.0'. 2) Coring began at 9.5'.		•
-	- -																- -	** 0 hr. water level not r introduced for coring.	neasured due	to water
-	_													1.		ļ	-			
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				<u></u>			CORE BORING REPORT	Sheet 1 of 1 DATE: <u>06/20-23/2003</u>
					,		COM DOMING ALL ON	
PROJECT:		8.2312601		•	I.D. NO.:	: B-3865	BORING NO.: B1-B	GEOLOGIST: Chris Baldwin
DESCRI	PTION:	Bridge No. 2	212 over L	ittle River c	on SR 1002	<u>:</u>		SENIOR DRILLER: J.W. Gilchrist, Jr.
COUNTY	Y:	Johnston		-	•	COLLAR	ELEVATION: 103.6 ft TOTAL DEPTH: 27.5 ft	DRILLING ASSISTANT: M.W. Renza
	<u>. </u>	Drill	Run	REC	RQD	T	T	
Elev.	Depth	ŧ	Length	1	(ft)	Sample	FIELD CLASSIFICATION AND REMARKS	
(ft)	(ft)	min./ft	(ft)	%	%	#		94.1 ft (9.5 ft)
94.1	9.5	6:05	3.0	2.8/3.0	N/A		WR-9.5-9.7 ft Gray, severely weathered, moderately hard Felsic Metavolcanic Rock Very close fracture spacing. STRATA REC.=0%	
'		5:59	1 '	93%			Very close fracture spacing. STRATA REC.=0% STRATA BREAK STRATA RQD=N/A	93.9 ft (9.7 ft)
'			_	'				·
		5:57		1				
91.1 91.1	12.5	5:55	5	5.0/5.0	4.0/5.0	 	NCR-9.7-22.5 ft Gray, slightly weathered, hard Felsic Metavolcanic Rock	· .
71	12	3.33		3.0/3.0	4.0/5.0		Close to Moderately close fracture spacing.	
		5;49		100%	80%	RS-3	RS-3 13.5-13.8 ft qu=6,972 psi	
·		5:52	1	1				
'			-	!			8 joints at 30°	1
1		5:50		'			12 joints at 35°	
. '		5:57	1	'			1 joint at 40° STRATA REC.=100% 3 joints at 50° STRATA ROD=74%	
86.1	17.5	3.2,		'			3 joints at 50° STRATA RQD=74% 1 joint at 70°	
86.1	17.5	5:40	5.0	5.0/5.0	4.2/5.0		1	
		5:47	1	100%	84%			
		5:51	-					
		5:50	4					
		5:51	1					
81.1	22.5	3:31					STRATA BREAK	81.1 ft (22.5 ft)
81.1	22.5	5:49	5.0	4.7/5.0	0.9/5.0			U1+1 At \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		5:55	1	94%	18%		NCR-22.5-27.5 ft Gray, moderately weathered, hard Felsic Metavolcanic Rock Close fracture spacing.	

		5:49				ļ	6 joints at 30°	
		5:50	-				5 joints at 35° STRATA REC.=94% 1 joint at 40° STRATA RQD=18%	
					-		1 JULIE OL AV GIANINA RVID-10/0	
76.1	27.5	5:52			<u> </u>			76.1 ft (27.5 ft)
								Coring terminated at elevation 76.1 ft
DOUTE.		and the late					NOTES:	
CME - 55	Track Rig	TPMENT: g with automatic CEMENT:	hammer.					
		9.4 feet using 2.1	25" hollow	etem augers				
		cer set at 9.5 feet		30000 000000				
3. Cored	using NQ3	3 w/SICB and a	Series 6 dia	amond impres	gnated bit fiv	om		
1	9.5 - 27.5							
4. Drilling	z Fluid: V	√ater					•	