

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

PAGE 1 OF 1

	PROJE	CT NO.	34	4209.1.	1		ID No.		Į.	-4025	SA C	OUNTY	′ Yadk	in/Suri	ry	GEOLOGIST D.	Goodnight/P. \	Weaver
	SITE DI	ESCRIPT	ION	Bridge	No. 13	on I-	77 SBL	Over	Yadkir	n Rive	er, Ya	dkin Val	ley RR,	and N	C 26	8	GROUND V	VATER (ft)
	BORING NO. B1-A SS					BORING LOCATION 27+08							ET 29f	t LT		ALIGNMENT -SBL	0 HR.	NA
	COLLA	R ELEV.	861.	1 ft	NORT	HING	9148	387.55				EAST	ING 1	46298	7.59		24 HR.	NA
	TOTAL	DEPTH	42.5	ft	DRILL	MAC	HINE	CME	45 Sk	id	DRIL	L METH	IOD V	√ash F	Rotar	y/NQ Core HAMI	TER TYPE 14	10 lb./Manual
		STARTED	5/6	5/04			COMF	LETE				SURF	ACE W	ATER	DEP	TH 4.3 ft.		
		DEPTH		OW COL	r				S PER			404	SAMP.	V /	P	SOIL AND ROCK	DESCRIPTION	
ŀ	(ft)	(ft)	0.5ft	0.5ft	0.5ft	0	20	40 1		60	80 	100	NO.	MOI	G		*****	***
	861.1															861.1		0.00
	861.1	0.0	1	1	2	· @ 3							SS-6	W		ALLUVIAL: Very Loos SAND with Some Orga	e, Tan, Fine to Co anics (Decayed Le	oarse eaves)
ŀ	857.6 -	- 3.5	13	50	50/0.2	. L 						1			5	858.1 with a Little Gravel WEATHERED ROCK:		3.0
	-		13	30	30/0.2							100/0.7				Severely Weathered, S Biotite-Mica Schist with	Soft to Medium Ha	ard,
	853.6 -	- 7.5	60	40/0.1											5	- Fracture Spacing	i close to very c	1036
	-		00	40/0.1								100/0.6				- - - 850.6		40.5
	848.6	12.5							: : :	: :	: : :	::::			• • • •	 SOIL: Medium Dense 	Tan, Saprolitic, S	10.5 Silty,
ı	- 040.0	- 12.0	9	6	22			© 28						w		Coarse to Fine SAND	with Rock Fragme	ents
	-	-														- 845.6		15.5
۱	_	-													3	 WEATHERED ROCK: White, Severely Weath 	nered. Soft to Med	dium
		-													M	- 842.6 Hard, Mica-Biotite Sch Fracture Spacing		- 1
	-	-													1/	CRYSTALLINE ROCK White, and Tan; Slight	: Grey with Black	ζ,
İ													RS-1		[//	Moderately Hard to Ha	rd: Biotite-Mica S	chist
								. <i>.</i>							7	836.9 with Very Close to Clo CRYSTALLINE ROCK	: Grey with White	e,
	-														11	Slightly to Very Slightly Very Hard, Biotite Sch	Weathered, Har st with Close to	d to
								 								- 832.2 Moderately Close Frac	ture Spacing	28.9
		<u> </u>						 								CRYSTALLINE ROCK Slightly to Very Slightly	Weathered, Mod	derately
		<u> </u>														Hard to Hard, Biotite S Close Fracture Spacin		lose to
		F														_	•	
	_	-													(1)	<u> </u>		
		F				: :									11	<u>-</u>		
		-				: :									(//	- -		
	-	F			<u> </u>	: :				<u>: :</u>	· · ·				11	- 818.6 - 87.0		42.5
		Ŧ														- Coring Terminated at 8 - Rock: Biotite Schist	ราช.6 feet in Crys	tailine
	_	Ţ.														Note: River water alor	ne used as drilling	g fluid
		<u> </u>														- -		
		‡														-		
13/04	-	‡														-		
77 Tr		‡														- -		
T.GD	_	‡														- 		
00		‡														<u> </u>		
J NC		‡														-		
)6.GP	-	‡														-		
10400		‡														_		
. 07		‡														_		
NGLE		†														E		
R SII		Ŧ														-		
BOR		Į.														F		
NCDOT BORE SINGLE 07104006.GPJ NC_DOT.GDT 7/13/04		‡														F		
S	L	<u>†</u>	L		<u></u>	<u></u>									<u></u>	<u> </u>		



CORE BORING REPORT

SHEET 27 OF 67

1 10 TH	AVASED.									PAGE 1 OF 1
PROJE	CT NO.		34209.1.	1		ID No.		I-40	25A	COUNTY Yadkin/Surry GEOLOGIST D. Goodnight/P. Weaver
SITE D	ESCRIP	TION	Bridge	No. 13	on I-7	77 SBL O	er Yac	ikin Ri	iver,	Yadkin Valley RR, and NC 268 GROUND WATER (ft)
BORIN	G NO.	B1-A	SS	во	RING	LOCATIO	N 27	7+08		OFFSET 29ft LT ALIGNMENT -SBL 0 HR. NA
COLLA	R ELEV	. 861	1.1 ft	NORT	HING	914887	'.55			EASTING 1462987.59 24 HR. NA
TOTAL	DEPTH	42.	5 ft	DRILL	MAC	HINE C	ME 45	Skid	DI	RILL METHOD Wash Rotary/NQ Core HAMMER TYPE 140 lb./Manua
DATE	STARTE	D 5	/6/04			COMPLE	TED	5/7/04		SURFACE WATER DEPTH 4.3 ft.
CORE	SIZE H	Q				TOTAL F	RUN 3	5.7 ft		DRILLER R. Toothman
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	REC. (ft) %	UN RQD (ft) %	SAMP. NO.	REC. (ft)	RATA RQD (ft) %	L O G	
				(2.2)						Begin Coring @ 4.7 ft
856.4 853.6	4.7 7.5	2.8	2:02	(0.0) 0%	(NA))	(1.2)	(NA)	3	WEATHERED ROCK: Brown, with White Severely Weathered, Soft to Medium Hard, Biotite-Mica Schist with Close to Very Close Fracture Spacing
853.0	8.1	4.4	1:09/0.8 <u>N=100/0.</u> 0:57/0.4	9 (1.2)	(NA))		,		Majority of fabric and joints are iron stained Feldspar porphyroblasts are common
848.6	12.5		2:31				(0.0)	(NA)		SOIL: Medium Dense, Tan, Saprolitic, Silty, Coarse to Fine SAND with Rock
847.1	14.0	3.5	2:08	(1.4)	(NA)					•L Fragments
			N=28 1:06/0.5	_/ I ` :	(IVA)	']	(1.7)	(NA)	5	- 845.6
843.6	17.5	5.0	2:04	(3.8)	(0.8))	57%			to Medium Hard, Mica-Biotite Schist with Very Close Fracture Spacing 1842.6
			3:47 3:01	J 76%	16%		(5.2) 91%	(0.8) 14%		Majority of fabric and jts are iron stained Feldspar porphyroblasts are common Majority of its @ 10° to 20°
838.6	22.5	5.0	5:16 9:03	(4.7)	(2.5)	RS-1	1		[//	CRYSTALLINE ROCK: Grey with Black, White, and Tan; Slightly Weathered;
			27:54 5:23	94%	50%		(4.7)	(4.0)	17	836.9 Moderately Hard to Hard; Biotite-Mica Schist with Very Close to Close Fracture 24 Spacing
833.6	27.5		4:49				100%	85%	1	12 jts @ 10° to 20° and 6 jts @ 30° to 40°
		5.0	5:08 8:17	(4.8) 96%	(2.7)		(11.4)	(2.6)	<u> </u>	Abundant feldspar porphyroblasts Numerous partially healed low to high angle fractures
000 6	20.5		9:27 9:21 6:33	4			84%	(2.6) 19%	11	CRYSTALLINE ROCK: Grey with White, Slightly to Very Slightly Weathered, Hard to Very Hard, Biotite Schist with Close to Moderately Close Fracture
828.6	32.5	5.0	6:07	(4.1)	(0.3)		1		(/)	Spacing
823.6	37.5		4:00 4:25 5:56	82%	6%				1	Very close fracture spacing (very broken) 25.6 feet to 25.9 feet 5 jts @ 20° to 30° 4 jts @ 0° to 10°
023.0	31.3	5.0	4:23 5:10	(4.2)	(1.1)		1			Isolated feldspar porphyroblasts CRYSTALLINE ROCK: Grey with White, Slightly to Very Slightly Weathered,
			4:10 6:41	84%	22%	·			(1)	Moderately Hard to Hard, Biotite Schist with Very Close to Close Fracture Spacing
818.6	42.5		4:28 4:41						11	- 818.6 — Feldspar porphyroblasts are common
			3:54 5:51 5:12							Majority of jts @ 10° to 20° 6 jts @ 30° to 40°
				-1						
										- leet to 32.0 feet to 32.0 feet, 32.0 feet to 37.7 feet to 37.8 feet
										Note: River water alone used as drilling fluid
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