

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

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	CT NO.		4209.1.			ID No		1-40			Yadk			GEOLOGIST D. Goodnight/P. Weaver
	SCRIP			<del></del>				Yadkin Ri	ver, Yadl				C 26	
BORING		B2-B S		ВС	RING	LOCA	TION	28+99			ET 31f	t RT		ALIGNMENT -SBL- 0 HR. 13.7
COLLA	R ELEV	. 878.	3 ft	NORT	HING	915	086.54			EAST	ING 1	46301	1.23	<b>24 HR.</b> 13.1
TOTAL	DEPTH	66.8	ft	DRILL	. MAC	HINE	CME	850	DRILL	METH	OD V	√ash R	otar	y/HQ Core HAMMER TYPE 140 lb./Auto
DATE S	TARTE	D 3/2	22/04			СОМ	PLETE	3/23/0	4	SURF	ACE W	ATER	DEP	TH NA
ELEV.	DEPTH	BLO	ow cor	JNT			BLOW	S PER FO	TC		SAMP.	V	L O	SOIL AND ROCK DESCRIPTION
(ft)	(ft)	0.5ft	0.5ft	0.5ft	1	20 	40 	60	80 l	100	NO.	MOI		OOIE AND ROOK DESCRIPTION
878.3														
877.3	1.0				1								• • • •	ALLUVIAL: Loose to Very Loose, Brown, Silty,
874.8	3.5	2	1	4	. •	5						M		Fine SAND with a Trace of Mica
-	- 0.0	3	3	3		 6						М		<del>-</del> -
872.3	6.0	2	2	1	/							14		<u>-</u>
869.8	8.5			1	. 3							M		870.3
1	-	WOH	WOH	2	<b>•</b> 2						SS-11	34.3%		ALLUVIAL: Soft, Brown to Grey, Clayey, Fine Sandy SILT with a Trace of Mica
Ŧ	-													
364.8	13.5			ļ	] ]:							W		<u>-</u>
‡	- -	2	1	1	•2							W		<u>-</u>
<u> </u>	- -				:[:	· · ·	· · · ·							861.0
359.8	_ 18.5	9	15	25	<del> </del> ∷ :							м		RESIDUAL: Dense to Very Dense, Grey-Green, Saprolitic, Silty, Coarse to Fine
Ŧ	-		10	20			•	€				101		SAND
,,,, †	- 00 -				: :									<del>-</del>
354.8	_ 23.5	17	18	73	1::					· · · · ·		М		<u></u>
. †	<u>.</u>				: :					991				-
349.8	- _ 28.5												5	851.3 WEATHERED ROCK: Brown, Severely
343.0	- 20.0	40	57	43/0.3	1 : :					00/0,8				Weathered, Soft to Medium Hard, Biotite Schist with Very Close to Close Fracture
346.5	- - 31.8				: :								5	Spacing Spacing
	-	75	25/0.1	1	: :					00/0,6				
+	-				1::								5	
841.5	- 36.8				: :					::				841.0
- 1	-	100/0.5							1	00/0,5			7	CRYSTALLINE ROCK: Grey, Moderately to
1	-				: :						RS-4			Slightly Weathered, Moderately Hard to Hard, Biotite Schist with Very Close to Close
1	-				: :								$\frac{1}{3}$	- 836.5 Fracture Spacing
+	_				: :									CRYSTALLINE ROCK: Grey, Slightly Weathered, Moderately Hard to Hard, Biotite
1	-				: :								(7)	833.3 Schist with Moderately Close Fracture Spacing
1	-												1	CRYSTALLINE ROCK: Grey, Moderately to Slightly Weathered, Moderately Hard to Hard,
. 7	_						;						$\langle \cdot \rangle$	Biotite Schist with Very Close to Close
1	-					: : :							1	Fracture Spacing
1	- -												[//	<u></u>
+	-				: :	· · ·							1	-
1	-												$\langle \cdot \rangle$	<u>F</u>
1	<u>-</u>				: :							1	1	<u></u>
1	-				: :								$\langle \cdot \rangle$	<u></u>
+	_				: :									+
4	<u> </u>				: :								$\langle \cdot \rangle$	<del>-</del>
1	-													ļ
1	<del>-</del>		<b> </b>	-	+						-	<del> </del>	[4	811.5
+	<u> </u>													Coring Terminated at Elevation 811.5 feet in Crystalline Rock: Biotite Schist
1	_													Note: Bentonite slurry used as drilling fluid;
	-	I	1	I	1						1	1		Mud density = 64.0 lbs./cu. ft.



## CORE BORING REPORT

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00.1	RANS.									PAGE 1 OF 1							
<b>PROJECT NO.</b> 34209.1.1 <b>ID No.</b> I-4025A										COUNTY Yadkin/Surry GEOLOGIST D. Goodnight/P. Weaver							
	ESCRIP								ver, \	/adkin Valley RR, and NC 268 GROUND WATER (ft)							
BORIN		B2-B				LOCATIO		3+99		OFFSET 31ft RT ALIGNMENT -SBL- 0 HR. 13.7							
	R ELEV					915086				EASTING 1463011.23 24 HR. 13.1							
	DEPTH		L	DRILL			ME 850			RILL METHOD Wash Rotary/HQ Core HAMMER TYPE 140 lb./Autom							
	STARTE		/22/04			COMPLE			4	SURFACE WATER DEPTH NA							
<del></del>	SIZE H		DRILL	RU	JN	TOTAL R		5.9 ft	<u> </u>	DRILLER R. Toothman							
ELEV. (ft)	DEPTH (ft)	RUN (ft)	RATE (Min/ft)	REC. (ft) %	RQD (ft) %	SAMP. NO.	REC. (ft) %	RQD (ft) %	Ö G	DESCRIPTION AND REMARKS							
				<u> </u>						Begin Coring @ 29.8 ft							
848.5 846.5	29.8 31.8	2.0	8:10 9:45	(0.8)	(NA)		(3.7)	(NA)		WEATHERED ROCK: Brown, Severely Weathered, Soft to Medium Hard, Biotite Schist with Very Close to Close Fracture Spacing							
845.9	32.4	4.4	<u>N=100/0.0</u> 4:13/0.4	(2.9) 66%	(NA)		1			Core loss at various intervals throughout							
044 5	20.0		9:27 6:27	3078					13	Very broken throughout Majority of jts @ 30° to 40°							
841.5 841.0	36.8 37.3	4.5	5:14 5:41	(4.4)	(1.6)		(4.4)	(1.6)	5	841.0 1 jt @ 80° 37.  CRYSTALLINE ROCK: Grey, Moderately to Slightly Weathered, Moderately							
836.5	41.8		V=100/0.5 2:02/0.5 4:16		36%		98%	36%		Hard to Hard, Biotite Schist with Very Close to Close Fracture Spacing							
120.0	.,,5	5.0	6:18 6:53	(5.0)	(4.8) 96%	<u> </u>	(3.2)	(3.2)	17	- 836.5 Zone of fresh, metamorphosed granitic rock from 38.6 feet to 39.3 feet Core loss at 37.3 feet to 37.4 feet							
			6:11 5:42	1	3078					Very broken 37.3 feet to 38.1 feet and 39.4 feet to 40.4 feet  Majority of jts @ 0° to 10°							
831.5	46.8	5.0	3:27 3:34	(5.0)	(2.8)	<b>_</b>	(21.4) 98%	(9.3) 43%		1 it @ 30° to 40° and 1 it @ 60° to 70°  CRYSTALLINE ROCK: Grey, Slightly Weathered, Moderately Hard to Hard,							
		0.0	3:32 3:26	100%	56%					Biotite Schist with Moderately Close Fracture Spacing							
826.5	51.8		3:25 2:39	1						2 jts @ 10° to 20°							
		5.0	3:01	(4.8) 96%	(0.4) 8%				[//	CRYSTALLINE ROCK: Grey, Moderately to Slightly Weathered, Moderately Hard to Hard, Biotite Schist with Very Close to Close Fracture Spacing							
			3:03 3:20	]	5/6					Very broken 55.4 feet to 56.0 feet; 56.8 feet to 57.2 feet; and 59.1 feet to 59.3							
821.5	56.8	5.0	3:16 3:47	(4.8)	(1.0)	-			<b>\</b> '\	feet Core loss at 55.4 feet to 55.6 feet; 56.8 feet and 57.0 feet; and 66.5 feet to 66.8							
			3:30 3:45	96%	20%				KI!	– feet - Majority of jts @ 0° to 10°							
816.5	61.8		4:01	1			]			- 1 jt @ 60° to 70° - 11 jts @ 30° to 40°							
		5.0	4:17 4:20 3:58	(5.0) 100%	(3.5) 70%					Note: 0.3 feet of core from Run No. 8 could not be retrieved from hole; REC based on assumption that unretrieved rock is the same as retrieved rock							
811.5	66.8		4:04 4:23	<u> </u>						- <u>- 811.5 66</u>							
			5:17 5:01							Coring Terminated at Elevation 811.5 feet in Crystalline Rock: Biotite Schist							
			4:55 5:00							Note: Bentonite slurry used as drilling fluid; Mud density = 64.0 lbs./cu. ft.							
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