

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

PAGE 1 OF 1

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	T NO34209.1.1		ID No. 1-402		YTNUC					LOGIST D.	Goodnight/P. Weaver
			I-77 SBL Over Yadkin Riv	er, Yad	kin Valle	ey RR,	and N	C 26	8		GROUND WATER (ft)
BORING NO.	B3-B SS/B5-B	CSBORING	IG LOCATION 30+85		OFFSI	ET 31f	t RT		ALIGNMENT	-SBL-	0 HR. 15.6
COLLAR ELE	7. 881.9 ft	NORTHING	I G 915269.33		EASTI	NG 14	46297	6.50			24 HR. 15.7
OTAL DEPTI	46.3 ft	DRILL MAC	ACHINE CME 850	DRILL	METH	OD W	/ash R	otarv	//HQ Core	HAMM	ER TYPE 140 lb./Autor
ATE STARTI			COMPLETED 4/5/04	1					PTH NA		
					L		AILN	DLI	THE NA		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
ELEV. DEPTH (ft) (ft)	0.5ft 0.5ft	0.5ft 0	BLOWS PER FOC 20 40 60	80 	100	SAMP. NO.	MOI	O G	so	IL AND ROCK	DESCRIPTION
(ft) (ft) 881.9 880.9 1.0 878.4 3.5 875.9 6.0 873.4 8.5 860.6 21.3 855.6 26.3	0.5ft 0.5ft	66	20 40 00 1 1 1 1		00/1.0•		30.2% M		878.9 867.9 867.9 867.4 WEATH- 865.7 CRYST Severel Modera Granite Weathe SOIL: \Coarse 856.1 Weathe CRYST Severel Hard to Very Cl CRYST Modera Weathe CRYST Sightly Biotite C Fracture 840.6 CRYST CRYST CRYST Modera Weathe CRYST CRYST Modera Weathe CRYST CRYST Modera Weathe CRYST CRYST CORYST CORYST CRYST CORYST Sightly Biotite C CRYST Coring Crystall Note: E	IERED ROCK: Rock ALLINE ROCK: Rock ALLINE ROCK: Ted, Mica Schis ALLINE ROCK To Moderately Hard to Ha With Close Fra HERED ROCK: Ted, Mica Schis ALLINE ROCK To Moderately Ted, Mica Schis ALLINE ROCK Tell Tell Tell Tell Tell Tell Tell Tel	rd, Metamorphosed cture Spacing Core Loss in Severely t own, Saprolitic, Silty, with a Little Mica Core Loss in Severely t Grey, Moderately Weathered, Medium rd, Mica Schist with acture Spacing Pink and Grey, Moderately morphosed Granite re Fracture Spacing Grey, Moderately to rd, Fine-Grained y Close to Close Pink and Grey, Veathered, Very Hard, e with Very Close to 3 Elevation 835.6 feet in morphosed Granite used as drilling fluid;



CORE BORING REPORT

SHEET 50 OF 67

PAGE 1 OF 1

OF 11	IA P									PAGE 1 OF 1
PROJE			34209.1.			ID No.		1-402		
	ESCRIP								ver, Y	Yadkin Valley RR, and NC 268 GROUND WATER (ft)
BORING						LOCATIO		+85		OFFSET 31ft RT ALIGNMENT -SBL- 0 HR. 15.6
	R ELEV			NORTH		915269	.33			EASTING 1462976.50 24 HR. 15.7
	DEPTH			DRILL	MACI		ME 850			RILL METHOD Wash Rotary/HQ Core HAMMER TYPE 140 lb./Automa
DATE S	TARTE	D 4/	/1/04			COMPLE	TED 4	4/5/04		SURFACE WATER DEPTH NA
CORE	SIZE H	Q	5501	l Di	UN	TOTAL R		0.2 ft	T . T	DRILLER R. Toothman
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	REC.	RQD (ft) %	SAMP. NO.	REC. (ft)	RQD (ft)	L O G	
										Begin Coring @ 14.5 ft
867.4	14.5	1.8	6:00 3:51/0.8	(1.7)	(0.3) 17%		(1.7) 100%,	(0.3)	17	7 867.4 CRYSTALLINE ROCK: Tan, Moderately Severely to Moderately Weathered, 14.9
865.6	16.3	5.0	4:19 6:13	(0.0)	(NA)		(0.0)	(NA)		4 jts @ 5° to 10°
860.6	21.3		12:07 5:10						5	1 it @ 45° 860.9 WEATHERED ROCK: Core Loss in Severely Weathered, Mica Schist 21.1
500.0	۷۱.۵		7:48 N=96	1		 	(0.0)	(NA)		SOIL: Very Dense, Brown, Saprolitic, Silty, Coarse to Fine SAND with a Little
859.1	22.8	3.5	3:34/0.5	(1.8)	(0.3)		(0.0)	(NA)	52	
855.6	26.3		7:12 6:44	3176	970		(1.3)	(0.3)		
855.5	26.4	4.9	10:35 N=60/0. 6:09/0.9		(0.7) 14%		100% (7.4) 85%	(1.5) 17%		Fracture Spacing
850.6	31.3		12:52 7:35				0078		1	7 jts @ 5° to 10° Very broken 24.5 feet to 25.0 feet
		5.0	9:35 15:26	(3.3) 66%	(0.8) 16%					CRYSTALLINE ROCK: Pink and Grey, Moderately Severely to Moderately Weathered, Hard, Metamorphosed Granite with Very Close to Close Fracture Spacing 34:
845.6	36.3		4:44 17:11		į		(5.2)	(0.8)	17	1 vertical fracture 25.8 feet to 26.3 feet
		5.0	10:18	(4.4) 88%	(0.8) 16%		76%	12%		7 jts @ 30° to 40°; 1 jt @ 60°; 6 jts @ 5° to 10° Very broken 27.4 feet to 28.3 feet and 31.0 feet to 32.0 feet
840.6	41.3		5:37 5:05 11:21	1 88 78	10%					CRYSTALLINE ROCK: Grey, Moderately to Slightly Weathered, Hard, Fine-Grained Biotite Gneiss with Very Close to Close Fracture Spacing
0 10.0	71.0	5.0	18:33 30:25	(4.2) 84%	(1.6) 32%		(4.2) 84%	(1.6) 32%	(7)	Very broken 34.9 feet to 35.2 feet; 36.4 feet to 36.6 feet; 39.6 feet to 39.8 feet; and 41.0 feet to 41.3 feet
835.6	46.3		12:23	-1						15 jts @ 5° to 10° 4 jts @ 30° to 40°
633.0	40.3		15:47 15:50 23:20							2 its @ 60° to 70° CRYSTALLINE ROCK: Pink and Grey, Moderately to Slightly Weathered, Very
			19:05	4						Hard, Metamorphosed Granite with Very Close to Close Fracture Spacing Very broken 43.0 feet to 43.3 feet and 44.2 feet to 45.0 feet
										Vertical fracture 43.0 feet to 45.1 feet
										Core loss 43.0 feet to 43.2 feet and 44.2 feet to 44.8 feet Coring Terminated at Elevation 835.6 feet in Crystalline Rock: Metamorphosed
										Granite Note: Bentonite slurry used as drilling fluid;
										Density = 63.0 lbs./cu. ft.
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