

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 GEOTECHNICAL UNIT BORING LOG

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 GEOTECHNICAL UNIT CORE BORING REPORT

PROJECT NO 8.2663501	ID B-3623	COUNTY CABARRUS	GEOLOGIST T.A. MECHUM
SITE DESCRIPTION BRIDGE NO.176 OVER REEDY CREEK ON SR 1136			GND WATER
BORING NO B2-A	NORTHING 0.00	EASTING 0.00	0 HR 2.50ft
ALIGNMENT L	BORING LOCATION 18+70.000	OFFSET 18.00ft LT	24 HR 2.90ft
COLLAR ELEV 535.25ft	TOTAL DEPTH 39.00ft	START DATE 3/31/03	COMPLETION DATE 04/01/03
DRILL MACHINE DIEDRICH D-50	DRILL METHOD SPT CORE BORING	HAMMER TYPE MANUAL	
SURFACE WATER DEPTH N/A	DEPTH TO ROCK 11.00ft	Log B2-A, Page 1 of 1	

PROJECT NO: 8.2663501 PROJECT ID: B-3623 COUNTY: CABARRUS GEOLOGIST: T.A. MECHUM  
 SITE DESCRIPTION: BRIDGE NO. 176 OVER REEDY CREEK ON SR 1136 DRILLER: J. LITTLE  
 BORING NO: B2-A BORING LOCATION (STA): 18+70.0 -L- OFFSET: 18.0 LT.  
 COLLAR ELEV: 535.25 PERSONNEL: L. SHRADER CORE SIZE: NQ2  
 TOTAL DEPTH: 39.0 DRILL MACHINE: DIEDRICH D-50 RC TRACK RIG DATE STARTED: 3/31/03  
 TOTAL RUN: 28.0 DRILL EQUIP: NWCAS/NQWL DATE COMPLETED: 4/01/03

ELEV	DEPTH	BLOW CT			PEN (ft)	BLOWS PER FOOT					SAMPLE NO	LOG	SOIL AND ROCK DESCRIPTION	
		6in	6in	6in		0	25	50	75	100				
535.25														Ground Surface
	3.50	2	2	3	1.0									(ALLUVIUM) BROWN, SOFT, MOIST, SILTY CLAY
530.00	8.50	2	5	16	1.0									GRAY, LOOSE-MED. DENSE, SAT.-WET, CLAYEY SILTY SAND
														(WEATHERED ROCK)
520.00														GRANITE TO 12.2', GRAY-BRN, MED. HARD, V. CLOSE FRAC., MAFIC META VOLCANIC, REC=62% RQD=16%
														WTE-GRY-BLK, MOD-MOD. SEV. WEATH., MOD.-MED. HARD., CLOSE-V. CLOSE FRAC., GRANITE & MAFIC META VOLCANIC, REC=74% RQD=28%
510.00														GRANITE TO 21.0', THEN, GRAY, MOD. WEATH., MOD. HARD, CLOSE FRAC., MAFIC META VOLCANIC, REC=75% RQD=25%
														GRAY, V. SLI. WEATH., MOD. HARD, WIDE FRAC., MAFIC META VOLCANIC, REC=100% RQD=100%
500.00														GRANITE TO 33.75', THEN, GRAY, V. SLI. WEATH., HARD, WIDE FRAC., META DACITE TUFF, REC=100% RQD=100%
496.25														BORING TERMINATED AT ELEV. 496.25' IN GRAY-WHITE, V. SLI. WEATH., HARD, WIDE FRAC., GRANITE

ELEV. (FT)	DEPTH (FT)	DRILL RATE (MIN/1.0 FT)	RUN NO.	REC % (FT)	RQD % (FT)	SAMPLE NO.	FIELD CLASSIFICATION AND REMARKS
524.25	11.0		1	62%	16%	RS-3 11.2-11.8'	WHITE-GRAY, MODERATELY WEATHERED, MODERATELY HARD, CLOSE FRACTURED, GRANITE TO 12.2', THEN, GRAY-BROWN, MEDIUM HARD, VERY CLOSELY FRACTURED, MAFIC META VOLCANIC
520.08	15.17		2	74%	28%		WHITE-GRAY, MODERATELY WEATHERED, MODERATELY HARD, CLOSELY FRACTURED GRANITE TO 17.0', THEN, BLACK-GRAY, MEDIUM HARD, MODERATELY SEVERLY WEATHERED, V. CLOSE-CLOSE FRAC., MAFIC META VOLCANIC
514.78	20.47		3	75%	25%		GRANITE SAME AS ABOVE TO 21.0', THEN, GRAY MODERATELY WEATHERED, MODERATELY HARD, CLOSELY FRACTURED, MAFIC META VOLCANIC
509.78	25.47		4	100%	100%	RS-4 25.47-26.47'	GRAY, VERY SLIGHTLY WEATHERED, MODERATELY HARD, WIDELY FRACTURED, MAFIC META VOLCANIC
504.83	30.42		5	100%	100%		GRAY, VERY SLIGHTLY WEATHERED, HARD, WIDELY FRACTURED GRANITE TO 33.75', THEN, GRAY, VERY SLIGHTLY WEATHERED, HARD, WIDELY FRACTURED, META DACITE TUFF
500.0	35.25		6	100%	100%	RS-5 35.25-35.95'	SAME AS ABOVE TO 37.3', THEN, GRAY-WHITE, VERY SLIGHTLY WEATHERED, HARD, WIDELY FRACTURED, GRANITE
496.25	39.0						
NOTES							