

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL UNIT BORING LOG

SHEET 17 OF 27

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

PROJECT NO 34383.1.1	ID R-2206C	COUNTY CATAWBA	GEOLOGIST J.K. STICKNEY
SITE DESCRIPTION BRIDGE ON NC 16 BYPASS OVER REED CRK BETWEEN SR 1855 & NC 16			GND WATER
BORING NO B2-A SBL	NORTHING 0.00	EASTING 0.00	0 HR 1.20m
ALIGNMENT L	BORING LOCATION 257+01.000	OFFSET 16.90m LT	24 HR 1.40m
COLLAR ELEV 280.94m	TOTAL DEPTH 9.04m	START DATE 12/18/03	COMPLETION DATE 12/18/03
DRILL MACHINE CME-550	DRILL METHOD SPT CORE BORING	HAMMER TYPE AUTOMATIC	
SURFACE WATER DEPTH		DEPTH TO ROCK 4.99m	

PROJECT NO: 8.1830503 PROJECT ID: R-2206C COUNTY: CATAWBA GEOLOGIST: J.K. STICKNEY
 SITE DESCRIPTION: BRIDGE ON NC 16 BYPASS OVER REED CRK BETWEEN SR 1855 & NC 16 DRILLER: C.L. SMITH
 BORING NO: B2-A SBL BORING LOCATION (STA): 257+01.0 OFFSET: 16.9 LT
 COLLAR ELEV: 280.941 PERSONNEL: C.E. BURRIS CORE SIZE: NXWL
 TOTAL DEPTH: 09.04 DRILL MACHINE: CME-550 DATE STARTED: 12-18-03
 TOTAL RUN: 4.05 DRILL EQUIP: NXWL, TRI-CONE DATE COMPLETED: 12-18-03

ELEV	DEPTH	BLOW CT			PEN (m)	BLOWS PER 30cm				SAMPLE NO	MOI	LOG	SOIL AND ROCK DESCRIPTION
		15cm	15cm	15cm		0	25	50	75				
280.94													Ground Surface
280.00	1.58	22	24	9	0.30								ALLUVIUM - MEDIUM DENSE TO DENSE TAN SILTY CLAYEY SAND WITH QUARTZ GRAVEL
278.00	3.10	11	89		0.29								RESIDUAL - MEDIUM STIFF TO HARD TAN-BROWN SILTY SAND
276.00	4.63	100			0.12								WEATHERED ROCK
													HARD ROCK - GRAY GRANITE, REC=90% RQD=82%
274.00													AS ABOVE, REC=90% RQD=82%
272.00													AS ABOVE, REC=100% RQD=100%
CORING TERMINATED AT ELEVATION 271.901 METERS IN VERY HARD GRANITE													

ELEV. (M)	DEPTH (M)	DRILL RATE (MIN/.3 m)	RUN NO.	REC % (M)	RQD % (M)	SAMPLE NO.	FIELD CLASSIFICATION AND REMARKS
275.951	4.99		1	79	50	RS-3	FIRST 0.33 METERS IS BROWN-GRAY MODERATELY WETHERED, MODERATELY HARD GRANITE WITH VERY CLOSE FRACTURES, THEN AT 5.32 METERS ROCK IS GRAY, FRESH, VERY HARD GRANITE (1 SOLID PIECE TO END OF RUN)
274.871	6.07		2	90	82		GRAY FRESH, VERY HARD, GRANITE WITH MODERATELY CLOSE TO WIDE FRACTURE SPACING
273.351	7.59		3	100	100		ONE SOLID PIECE OF GRAY FRESH, VERY HARD GRAINTE
271.901	9.04						

NOTES