

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 GEOTECHNICAL UNIT BORING LOG

SHEET 18 OF 27

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

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-B SBL BORING LOCATION (STA): 257+00.5 OFFSET: 10.6 LT  
 COLLAR ELEV: 280.966 PERSONNEL: C.E. BURRIS CORE SIZE: NXWL  
 TOTAL DEPTH: 9.04 DRILL MACHINE: CME-550 DATE STARTED: 12-18-03  
 TOTAL RUN: 4.49 DRILL EQUIP: NXWL, TRI-CONE DATE COMPLETED: 12-18-03

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-B SBL		NORTHING 0.00		EASTING 0.00		0 HR 2.10m							
ALIGNMENT L		BORING LOCATION 257+00.500		OFFSET 10.60m LT		24 HR 2.10m							
COLLAR ELEV 280.97m		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 N/A			DEPTH TO ROCK 4.55m			Log B2-B SBL, Page 1 of 1							
ELEV	DEPTH	BLOW CT			PEN	BLOWS PER 30cm				SAMPLE	LOG	SOIL AND ROCK DESCRIPTION	
		15cm	15cm	15cm	(m)	0	25	50	75	100			NO
280.97						Ground Surface							
280.00	1.48	2	2	3	0.30						SS-3	MOIST	ALLUVIUM - MEDIUM STIFF GRAY CLAYEY SANDY SILT
278.00	2.00	1	1	2	0.30							MOIST	
276.00	4.53	100			0.03					100			RESIDUAL - MEDIUM DENSE TO VERY DENSE TAN-BROWN SILTY SAND
													WEATHERED ROCK
													HARD ROCK - GRAY GRANITE, REC=93% RQD=85%
													AS ABOVE, REC=97% RQD=96%
													AS ABOVE, REC=98% RQD=93%
274.00													
272.99													
CORING TERMINATED AT ELEVATION 271.926 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
276.416	4.55		1	93	85		GRAY FRESH, VERY HARD GRANITE WITH WIDE FRACTURE SPACING
274.936	6.03		2	97	96		AS ABOVE
273.416	7.55		3	98	93		AS ABOVE
271.926	9.04						
NOTES							