

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL UNIT BORING LOG

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

PROJECT NO: 8.1830503 PROJECT ID: R-2206C COUNTY: LINCOLN GEOLOGIST: C.E. BURRIS
 SITE DESCRIPTION: DUAL BRIDGES ON NC 16 OVER KILLIAN CREEK DRILLER: C.L. SMITH
 BORING NO: B1-B NBL BORING LOCATION (STA): 222+94.7 OFFSET: 18.3 RT
 COLLAR ELEV: 253.286 PERSONNEL: J.K. STICKNEY CORE SIZE: NXWL
 TOTAL DEPTH: 7.20 DRILL MACHINE: CME-550 DATE STARTED: 12-1-03
 TOTAL RUN: 4.76 DRILL EQUIP: NXWL, TRI-CONE DATE COMPLETED: 12-1-03

PROJECT NO 8.1830503		ID R-2206C		COUNTY LINCOLN		GEOLOGIST C.E. BURRIS						
SITE DESCRIPTION BRIDGE OVER KILLIAN CRK. ON NC 16 BETWEEN MUNDY RD. & NC 150							GND WATER					
BORING NO B1-B NBL		NORTHING 0.00		EASTING 0.00		0 HR 1.77m						
ALIGNMENT L		BORING LOCATION 222+94.700		OFFSET 18.30m RT		24 HR 2.23m						
COLLAR ELEV 253.29m		TOTAL DEPTH 7.20m		START DATE 12/01/03		COMPLETION DATE 12/01/03						
DRILL MACHINE CME-550			DRILL METHOD SPT CORE BORING			HAMMER TYPE AUTOMATIC						
SURFACE WATER DEPTH			DEPTH TO ROCK 2.44m			Log B1-B NBL, Page 1 of 1						
ELEV	DEPTH	BLOW CT			PEN (m)	BLOWS PER 30cm				SAMPLE NO	LOG	SOIL AND ROCK DESCRIPTION
		15cm	15cm	15cm		0	25	50	75			
253.29												Ground Surface
252.00	1.37	100			0.15							ALLUVIUM - VERY LOOSE TO LOOSE BROWN-BLACK-GRAY SILTY SAND
												RESIDUAL - DENSE TO VERY DENSE GRAY-TAN-WHITE MICACEOUS SILTY SAND
250.00												WEATHERED ROCK
												HARD ROCK - GRAY FRESH, VERY HARD GRANITE, REC=79% RQD=79%
248.00												AS ABOVE, REC=98% RQD=83%
												AS ABOVE, REC=100% RQD=91%
246.09												AS ABOVE, REC=99% RQD=89%
												CORING TERMINATED AT ELEVATION 246.086 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
250.846	2.44		1	79	79		GRAY FRESH, VERY HARD, GRANITE, (ONE SOLID PIECE)
250.486	2.80		2	98	83	RS-3	GRAY FRESH, VERY HARD, GRANITE WITH CLOSE TO MODERATELY CLOSE FRACTURE SPACING
249.036	4.25		3	100	91		AS ABOVE
247.556	5.73		4	99	89		AS ABOVE
246.086	7.20						

NOTES