

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	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 SBL	NORTHING 0.00	EASTING 0.00	0 HR 2.28m
ALIGNMENT L	BORING LOCATION 222+94.700	OFFSET 9.00m LT	24 HR 2.38m
COLLAR ELEV 253.25m	TOTAL DEPTH 11.95m	START DATE 11/25/03	COMPLETION DATE 11/25/03
DRILL MACHINE CME-550	DRILL METHOD SPT CORE BORING	HAMMER TYPE AUTOMATIC	
SURFACE WATER DEPTH N/A	DEPTH TO ROCK 5.01m	Log B1-B SBL, Page 1 of 1	

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 SBL      BORING LOCATION (STA): 222+94.7      OFFSET: 9.0 LT  
 COLLAR ELEV: 253.246      PERSONNEL: J.K. STICKNEY      CORE SIZE: NXWL  
 TOTAL DEPTH: 11.95      DRILL MACHINE: CME-550      DATE STARTED: 11-25-03  
 TOTAL RUN: 6.94      DRILL EQUIP: NXWL, TRI-CONE      DATE COMPLETED: 11-25-03

ELEV	DEPTH	BLOW CT			PEN (m)	BLOWS PER 30cm					SAMPLE NO	LOG	SOIL AND ROCK DESCRIPTION	
		15cm	15cm	15cm		0	25	50	75	100				
253.25	0.00	0	0	1	0.30									Ground Surface
252.00	1.66	8	14	6	0.30							SS-1	MOIST	ALLUVIUM - VERY SOFT TO SOFT BROWN-GRAY SILTY SANDY CLAY
250.00	3.18	8	100		0.25							SS-2	MOIST	RESIDUAL - MEDIUM DENSE TO VERY DENSE GRAY-TAN-WHITE MICACEOUS SILTY SAND
248.00	4.71	100			0.07							SS-3	MOIST	WEATHERED ROCK
246.00												RUN #1		HARD ROCK - GRAY FRESH, VERY HARD GRANITE AND META-VOLCANIC ROCK, REC=89% RQD=64% AS ABOVE, REC=99% RQD=93%
												RUN #2		
												RUN #3		
												RUN #4		
												RUN #5		
241.30														CORING TERMINATED AT ELEVATION 241.296 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
248.236	5.01		1	89	64	RS-1	GRAY FRESH, VERY HARD GRANITE WITH CLOSE TO MODERATELY CLOSE FRACTURE SPACING
247.096	6.15		2	99	93		GRAY FRESH, VERY HARD GRANITE WITH MODERATELY HARD FRACTURE SPACING
245.666	7.58		3	99	92		AS ABOVE, EXCEPT FRACTURE SPACING CLOSE TO MODERATELY CLOSE
244.216	9.03		4	95	75		AS ABOVE TO 9.74 THEN GRAY, FRESH, VERY HARD META-VOLCANIC WITH CLOSE TO MODERATELY CLOSE FRACTURE SPACING
242.746	10.50		5	99	64		GRAY FRESH, VERY HARD META-VOLCANIC WITH CLOSE FRACTURE SPACING TO 10.80 THEN GRAY FRESH VERY HARD GRANITE WITH CLOSE FRACTURE SPACING TO END OF RUN
241.296	11.95						

NOTES