

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: B2-A SBL BORING LOCATION (STA): 223+12.2 OFFSET: 16.5 LT CORE SIZE: NXWL
 COLLAR ELEV: 252.206 PERSONNEL: J.K. STICKNEY
 TOTAL DEPTH: 12.26 DRILL MACHINE: CME-550 DATE STARTED: 12/8/03
 TOTAL RUN: 7.17 DRILL EQUIP: NXWL, TRI-CONE DATE COMPLETED: 12/8/03

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 B2-A SBL		NORTHING 0.00		EASTING 0.00		0 HR 1.20m							
ALIGNMENT L		BORING LOCATION 223+12.200		OFFSET 16.50m LT		24 HR N/A							
COLLAR ELEV 252.21m		TOTAL DEPTH 12.26m		START DATE 12/08/03		COMPLETION DATE 12/08/03							
DRILL MACHINE CME-550			DRILL METHOD SPT CORE BORING			HAMMER TYPE AUTOMATIC							
SURFACE WATER DEPTH			DEPTH TO ROCK 5.09m			Log B2-A SBL, Page 1 of 1							
ELEV	DEPTH	BLOW CT			PEN (m)	BLOWS PER 30cm				SAMPLE NO	MOI	LOG	SOIL AND ROCK DESCRIPTION
		15cm	15cm	15cm		0	25	50	75				
252.21													Ground Surface
251.00	1.76	1	2	5	0.30	7							ALLUVIUM - VERY LOOSE TO LOOSE GRAY-WHITE MICACEOUS SILTY SAND
249.00	3.28	5	19	26	0.30	45							RESIDUAL - DENSE TO VERY DENSE BROWN-GRAY-TAN MICACEOUS SILTY SAND
247.00	4.81	100			0.08	100							WEATHERED ROCK
													RUN #1 HARD ROCK - GRAY MODERATELY WEATHERED TO FRESH, MOD. HARD TO VERY HARD GRANITE, REC=70% RQD=50%
													RUN #2 AS ABOVE, REC=98% RQD=26%
													RUN #3 AS ABOVE, REC=97% RQD=40%
													RUN #4 AS ABOVE, REC=97% RQD=85%
													RS-4 RUN #5 AS ABOVE, REC=98% RQD=94%
239.95													CORING TERMINATED AT ELEVATION 239.946 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
247.116	5.09		1	70	50		GRAY MODERATE TO SLIGHTLY WEATHERED, MODERATELY HARD TO VERY HARD GRANITE WITH VERY CLOSE FRACTURE SPACING
245.946	6.26		2	98	26		AS ABOVE
244.456	7.75		3	97	40		AS ABOVE TO 8.36 METERS THEN GRAY FRESH, VERY HARD GRANITE WITH VERY CLOSE TO CLOSE FRACTURE SPACING
242.946	9.26		4	97	85	RS-4	GRAY FRESH, VERY HARD GRANITE WITH CLOSE TO MODERATELY CLOSE FRACTURE SPACING (3 SOLID PIECES OF CORE)
241.426	10.78		5	98	94		AS ABOVE (2 SOLID PIECES)
239.946	12.26						
NOTES							