

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL UNIT BORING LOG

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

PROJECT NO: 8.1830501 PROJECT ID: R-2206C COUNTY: LINCOLN GEOLOGIST: J.K. STICKNEY
 SITE DESCRIPTION: BRIDGE ON NC 16 OVER KILLIAN CREEK DRILLER: C.L. SMITH
 BORING NO: B1-A SBL BORING LOCATION (STA): 199+33 OFFSET: 20.4 LT
 COLLAR ELEV: 233.621 PERSONNEL: CEB, AJT CORE SIZE: NXWL
 TOTAL DEPTH: 12.85 DRILL MACHINE: CME-550 DATE STARTED: 6-27-03
 TOTAL RUN: 6.65 DRILL EQUIP: NW CASING / NXWL DATE COMPLETED: 6-27-03

PROJECT NO 8.1830501		ID R-2206C		COUNTY LINCOLN		GEOLOGIST J.K. STICKNEY						
SITE DESCRIPTION BRIDGE ON NC 16 OVER KILLIAN CREEK							GND WATER					
BORING NO B1-A SBL		NORTHING 0.00		EASTING 0.00		0 HR 1.20m						
ALIGNMENT L		BORING LOCATION 199+33.000		OFFSET 20.40m LT		24 HR 1.10m						
COLLAR ELEV 233.62m		TOTAL DEPTH 12.85m		START DATE 6/27/03		COMPLETION DATE 06/27/03						
DRILL MACHINE CME-550			DRILL METHOD SPT CORE BORING			HAMMER TYPE AUTOMATIC						
SURFACE WATER DEPTH			DEPTH TO ROCK 6.20m			Log B1-A SBL, 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			
233.62												Ground Surface
233.00	1.50	0	1	8	0.30					SS-5	M/W	ALLUVIUM - LOOSE TAN-GRAY MICACEOUS SILTY SAND
231.00	3.02	12	12	10	0.30					SS-6	M/W	RESIDUAL - VERY STIFF TO HARD BROWN-GRAY MICACEOUS SANDY SILT
229.00	4.55	6	9	20	0.30					SS-7	M/W	
227.00	6.07	100			0.08					RUN #1		WEATHERED ROCK
										RUN #2		HARD ROCK - GRAY HARD TO VERY HARD, SLIGHTLY WEATHERED TO FRESH FOLIATED GRANITE, REC=53% RQD=0%
225.00										RS-4		GRAY VERY HARD, FRESH, FOLIATED GRANITE, REC=87% RQD=25%
223.00										RUN #4		AS ABOVE TO 9.37 THEN 1 SOLID PIECE OF CORE, REC=86% RQD=60%
										RUN #		GRAY VERY HARD, FRESH, FOLIATED GRANITE, REC=97% RQD=83%
221.00												AS ABOVE, REC=100% RQD=95%
220.77												CORING TERMINATED AT ELEVATION 220.77 METERS IN HARD ROCK

ELEV. (M)	DEPTH (M)	DRILL RATE (MIN/.3 m)	RUN NO.	REC % (M)	RQD % (M)	SAMPLE NO.	FIELD CLASSIFICATION AND REMARKS
227.421	6.2		1	53	0		GRAY HARD TO VERY HARD, SLIGHTLY WEATHERED TO FRESH, FOLIATED GRANITE WITH VERY CLOSE TO CLOSE FRACTURE SPACING
226.091	7.53		2	87	25		GRAY VERY HARD, FRESH, FOLIATED GRANITE WITH VERY CLOSE TO CLOSE FRACTURE SPACING
224.571	9.05		3	86	60		GRAY VERY HARD, FRESH, FOLIATED GRANITE (3 SOLID PIECES)
223.051	10.57		4	97	83		AS ABOVE - 2 SOLID PIECES
221.531	12.09		5	100	95		
220.771	12.85						
NOTES							