

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
GEOTECHNICAL UNIT BORING LOG

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

PROJECT NO 8.1601401		ID B-3157		COUNTY DAVIDSON		GEOLOGIST J.K. STICKNEY						
SITE DESCRIPTION BRIDGES 74 & 76 ON I-85 BUS. OVER SR 1242 & MICHAEL CREEK							GND WATER					
BORING NO EB1-B		NORTHING 0.00		EASTING 0.00		0 HR 0.20ft						
ALIGNMENT L		BORING LOCATION 28+45.000		OFFSET 49.00ft RT		24 HR N/A						
COLLAR ELEV 717.13ft		TOTAL DEPTH 43.10ft		START DATE 11/14/02		COMPLETION DATE 11/14/02						
DRILL MACHINE CME-550			DRILL METHOD NW CAS/NXWL			HAMMER TYPE AUTOMATIC						
SURFACE WATER DEPTH			DEPTH TO ROCK 13.60ft			Log EB1-B, Page 1 of 1						
ELEV	DEPTH	BLOW CT			PEN (ft)	BLOWS PER FOOT				SAMPLE NO	LOG	SOIL AND ROCK DESCRIPTION
		6in	6in	6in		0	25	50	75			
717.13												Ground Surface
	3.60	0	0	0	1.0	0						(ROADWAY FILL) RED-BRN V. SOFT MIC. SILTY F. SANDY CLAY
710.00	8.60	6	3	9	1.0	12				SS-14	M/W	(ALLUVIUM) BLACK-WHITE-TAN-ORANGE V. LOOSE SILTY CSE. SAND W/ GRAVEL
	13.60	100			0.1							(RESIDUAL) TAN-ORANGE-PINK-WHITE MED. DENSE MIC. SILTY CSE. SAND
700.00	17.70	100			0.1							CRYSTALLINE ROCK
										CORE1		GRAY-WHITE MOD. WEATH. MOD. HARD GRANITE REC=100% RQD=64%
										CORE3		GRAY-WHITE MOD. WEATH. MOD. HARD GRANITE REC=70% RQD=28%
690.00										CORE4		AS ABOVE REC=66% RQD=10%
										CORE5		AS ABOVE TO 29.9 THEN GRAY-WHITE SLI. WEATH. HARD GRANITE REC=92% RQD=36%
680.00										RS-1 CORE6		GRAY-WHITE SLI. WEATH. HARD GRANITE TO 34.4 THEN GRAY FRESH V. HARD GRANITE REC=96% RQD=85%
674.03												GRAY FRESH V. HARD GRANITE REC=100% RQD=94%
												TERMINATED BORING AT ELEV. 674.03 IN GRAY FRESH V. HARD GRANITE

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 SITE DESCRIPTION: BRIDGES 74 & 76 ON I-85 BUS. OVER SR 1242 & MICHAEL CREEK      DRILLER: C.L. SMITH  
 BORING NO: EB1-B      BORING LOCATION (STA): 28+45 -L-      OFFSET: 49.0 RT.  
 COLLAR ELEV: 717.13      PERSONNEL: C.E. BURRIS      CORE SIZE: NXWL  
 TOTAL DEPTH: 43.10      DRILL MACHINE: CME-550      DATE STARTED: 11/14/02  
 TOTAL RUN: 25.30      DRILL EQUIP: NWCAS/NXWL      DATE COMPLETED: 11/14/02

ELEV. (FT)	DEPTH (FT)	DRILL RATE (MIN/1.0 FT)	RUN NO.	REC % (FT)	RQD % (FT)	SAMPLE NO.	FIELD CLASSIFICATION AND REMARKS
699.33	17.80		1	100	64		GRAY-WHITE MOD. WEATH. MOD. HARD GRANITE W/ CLOSE FRACTURE SPACING
698.63	18.50		2	70	28		GRAY-WHITE MOD. WEATH. MOD. HARD GRANITE W/ V. CLOSE TO CLOSE FRACTURE SPACING
693.63	23.50		3	66	10		GRAY-WHITE MOD. WEATH. MOD. HARD GRANITE W/ V. CLOSE TO CLOSE FRACTURE SPACING
688.83	28.30		4	92	36		AS ABOVE TO 29.9, THEN GRAY-WHITE SLI. WEATH. HARD GRANITE W/ CLOSE TO MOD. CLOSE FRACTURE SPACING
683.63	33.50		5	96	85	RS-1 37.4-38.0	GRAY-WHITE SLI. WEATH. HARD GRANITE W/ CLOSE FRACTURE SPACING TO 34.40 THEN GRAY FRESH V. HARD GRANITE W/ MOD. CLOSE FRACTURE SPACING
678.73	38.40		6	100	94		GRAY FRESH V. HARD GRANITE W/ MOD. CLOSE FRACTURE SPACING
674.03	43.10						
NOTES							