

**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
GEOTECHNICAL UNIT BORING LOG**

<b>PROJECT NO.</b> 8.2360601		<b>ID.</b> B-4515		<b>COUNTY</b> FRANKLIN		<b>GEOLOGIST</b> J.L. LOVE								
<b>SITE DESCRIPTION</b> BRIDGE NO. 40 ON -L- (SR 1235, DYKING RD.) OVER BEAR SWAMP CREEK							<b>GROUND WATER</b>							
<b>BORING NO.</b> BI-B		<b>BORING LOCATION</b> 15+11		<b>OFFSET</b> 11' RT		<b>ALIGNMENT</b> -L-								
<b>COLLAR ELEVATION</b> 210.1'		<b>NORTHING</b> 868189		<b>EASTING</b> 2201174		<b>0 HR.</b> N/A								
<b>TOTAL DEPTH</b> 39.9'		<b>DRILL MACHINE</b> CME-750		<b>DRILL METHOD</b> H.S. AUGERS		<b>HAMMER TYPE</b> MANUAL								
<b>START DATE</b> 10/29/03		<b>COMPLETION DATE</b> 10/29/03		<b>SURFACE WATER DEPTH</b> N/A		<b>DEPTH TO ROCK</b> 22.3'								
ELEV. (FT.)	DEPTH (FT.)	BLOW COUNT			PEN. (FT.)	BLOWS PER FOOT					SAMPLE NUMBER	LOG MOI.	SOIL AND ROCK DESCRIPTION	
		0.5'	0.5'	0.5'		0	25	50	75	100				
210.1														
205.0	3.2	3	1	2	1.0	X 3					SS-14	M	ROADWAY EMBANKMENT, ORANGE-BROWN, BROWN, AND WHITE, SILTY COARSE SAND WITH WEATHERED GRANITE BOULDERS	
	5.7	16	19	40	1.0		X 59				SS-15	D		
	8.2	2	1	3	1.0	X 4						M		
200.0	10.7	3	2	4	1.0	X 6						W		
	13.2	2	1	2	1.0	X 3						S	ALLUVIAL, BROWN, SILTY COARSE SAND WITH TRACE ORGANIC MATTER	
195.0	15.7	4	3	4	1.0	X 7						S		
	18.2	6	6	12	1.0	X 8						S		
190.0	20.7	100			0.4		X 100/0.4						WEATHERED ROCK (GRANITE)	
185.0											RS-3		CRYSTALLINE ROCK, GRAY TO PINK, VERY SLIGHTLY WEATHERED TO FRESH, VERY HARD, CLOSE TO WIDE FRACTURES, GRANITE	
180.0														
175.0											RS-4		Avg. REC=94% Avg. RQD=82%	
170.0													CORING TERMINATED AT ELEVATION 170.2 FEET IN CRYSTALLINE ROCK (GRANITE)	
165.0														
160.0														
155.0														
150.0														
145.0														
140.0														

**CORE BORING REPORT**

PROJECT: 8.2360601 ID: B-4515 COUNTY: Franklin BORING NO: B1-B  
 DESCRIPTION: Bridge No. 40 on -L- (SR 1235) over Bear Swamp Creek  
 LOCATION OF BORING: -L- 15+11, 11' RT COMPLETION DATE: 10/29/03  
 COLLAR or GROUND ELEVATION: 210.1 ft CORE SIZE: NWD4 GEOLOGIST: J.L. Love  
 CORE EQUIPMENT: CME-750, NW-Casing, NWD4 DRILLER: Earl Moseley

ELEV (ft)	DEPTH (ft)	DRILL RATE (min/ft)	RUN (ft)	REC (ft) (%)	RQD (ft) (%)	SAMPLE NUMBER	FIELD CLASSIFICATION and REMARKS
187.6	22.5	4:50	5.0	4.4 (88%)	3.7 (74%)	RS-3 26.6-27.2	Pink and gray, very slightly weathered to fresh, very hard, close fractured granite. Three 45 degree fractures at 24.7', 26.5', and 27.2', feldspar-filled.
		4:45					
		4:32					
		3:35					
182.6	27.5	3:45	5.0	4.5 (90%)	3.5 (70%)		Pink, fresh, very hard, close to wide fractured granite. One 25 degree fracture at 29.3' and one 50 degree fracture at 31.9'.
		3:51					
		4:29					
177.6	32.5	3:37	5.0	4.4 (90%)	3.5 (70%)		
		4:34					
		3:50					
		3:28					
177.6	32.5	3:57	5.0	5.0 (100%)	4.7 (94%)	RS-4 36.0-36.6	Pink, fresh, very hard, wide fractured granite. Two 50 degree fractures at 35.2' and 35.4'.
		4:20					
		3:59					
		3:48					
172.6	37.5	4:07	2.4	2.4 (100%)	2.4 (100%)		Pink, fresh, very hard granite.
		4:16					
		1:57/0.4'					
170.2	39.9	-					
							BOREHOLE TERMINATED AT ELEVATION OF 170.2 FEET, IN ROCK.