NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL UNIT BORING LOG

PROJECT NO. 33234.1.1	**ID.** B-3694	**COUNTY** ROCKINGHAM	**GEOLOGIST** J.L. LOVE
SITE DESCRIPTION BRIDGE NO. 55 ON -L- (SR 1138) OVER BELEWS CREEK			**GROUND WATER**
BORING NO. B2-B	**BORING LOCATION** 17+83	**OFFSET** 30' RT	**ALIGNMENT** -L-	**0 HR.** N/A
COLLAR ELEVATION 581.0'	**NORTHING** 941953	**EASTING** 1702530	**24 HR.** 16.0'
TOTAL DEPTH 55.0'	**DRILL MACHINE** SIMCO-4000 TR	**DRILL METHOD** H.S. AUGERS/NQ	**HAMMER TYPE** MANUAL
START DATE 5/4/04	**COMPLETION DATE** 5/5/04	**SURFACE WATER DEPTH** N/A	**DEPTH TO ROCK** 34.1'

ELEV.	DEPTH (FT.)	BLOW COUNT 0.5'	0.5'	0.5'	PEN. (FT.)	BLOWS PER FOOT (0 25 50 75 100)	SAMPLE NUMBER	MOI.	LOG	SOIL AND ROCK DESCRIPTION
581.0										
580.0										
	4.0	3	3	3	1.0	6	SS-12	M		ALLUVIAL, ORANGE-BROWN SANDY SILT, WITH SOME MICA
575.0										
	9.0	4	18	8	1.0	26		M		
570.0										
	14.0	3	3	6	1.0	9	SS-13	M		RESIDUAL, BROWN AND WHITE, SANDY SILT, SAPROLITE
565.0										
	19.0	9	9	12	1.0	21		M		
560.0										
	24.0	13	87		0.8	100+				WEATHERED ROCK
555.0										
	29.0	60	40		0.6	100+				
550.0										
	34.0	60			0.1	60/0.1				
545.0										
	39.0	60			0.1	60/0.1				
540.0										CRYSTALLINE ROCK (GNEISS)
535.0							RS-3			
530.0							RS-4			
							RS-5			
525.0						CORING TERMINATED AT ELEVATION 526.0 FEET IN CRYSTALLINE ROCK (GNEISS)				
520.0										
515.0										
510.0										
505.0										

CORE BORING REPORT

PROJECT: 33234.1.1 ID: B-3694 COUNTY: Rockingham BORING NO: B2-B

DESCRIPTION: Bridge No. 55 on -L- (SR 1138) over Belews Creek

LOCATION OF BORING: -L- Sta. 17+83, Offset 30' RT COMPLETION DATE: 5/5/04

COLLAR or GROUND ELEVATION: 581.0 ft CORE SIZE: NQ GEOLOGIST: J. L. Love

CORE EQUIPMENT: SIMCO-4000 TR, HSA, NQ DRILLER: Eddie Hill

ELEV (ft)	DEPTH (ft)	DRILL RATE (min/ft)	RUN (ft)	REC (ft) (%)	RQD (ft) (%)	SAMPLE NUMBER	FIELD CLASSIFICATION and REMARKS
537.1	43.9	0:20/0.1'					White to dark green-gray, moderately severe to very slightly weathered, moderately hard, mica gneiss with coarse-grained quartz, trace small garnets
		2:05		0.8	0.0		
		-	1.1				
		-		(73%)	(0%)		
536.0	45.0	-					
536.0	45.0	2:48					(45.0'-48.5') Dark green-gray, slightly weathered to fresh, moderately hard, close fractured, mica gneiss with some garnets. Fractures at 45.9'-60 degrees, 46.4'-50 degrees, and 47.7'-30 degrees (48.5'-50.0') Gray-green, fresh, hard, meta-conglomerate with quartz and feldspar porphyroblasts
		2:23		4.3	3.0	RS-3 (45.5-45.9)	
		3:08	5.0				
		3:15		(86%)	(60%)		
531.0	50.0	3:22					
531.0	50.0	3:25				RS-4 (50.0-50.6)	Green and gray, slightly weathered to fresh, moderately hard, close fractured, thickly bedded, calc-silicate gneiss with trace garnets. Fractures at 51.0'-52.5' - less than 30 degrees, 53.0'-30 degrees, at 53.4' and 53.6' - fractures at 25 degrees
		3:17		5.0	1.7		
		3:38	5.0				
		3:31		(100%)	(34%)	RS-5 (54.4-55.0)	
526.0	55.0	3:35					

BOREHOLE TERMINATED AT ELEVATION OF 526.0 FEET, IN GNEISS.