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. B1-A	**BORING LOCATION** 17+10	**OFFSET** 25' LT	**ALIGNMENT** -L- / **0 HR.** N/A
COLLAR ELEVATION 567.2'	**NORTHING** 941983	**EASTING** 1702443	**24 HR.** 1.8'
TOTAL DEPTH 45.0'	**DRILL MACHINE** SIMCO-4000 TR	**DRILL METHOD** H.S. AUGERS/NQ	**HAMMER TYPE** MANUAL
START DATE 5/6/04	**COMPLETION DATE** 5/6/04	**SURFACE WATER DEPTH** N/A	**DEPTH TO ROCK** 34.5'

ELEV.	DEPTH (FT.)	BLOW COUNT 0.5'	0.5'	0.5'	PEN. (FT.)	BLOWS PER FOOT	SAMPLE NUMBER	▼/MOI.	SOIL AND ROCK DESCRIPTION
567.2								▼ W	ALLUVIAL, GRAY-BROWN, COARSE SAND
	4.5	8	8	7	1.0	15	SS-18	M	
	7.0	7	9	13	1.0	22		M	RESIDUAL, ORANGE-BROWN, SILTY SAND, SAPROLITE
	9.5	7	15	25	1.0	40		M	
	14.5	3	10	16	1.0	26		M	
	19.5	12	26	50	1.0	76	SS-19	D	RESIDUAL, ORANGE-BROWN, SANDY SILT, SAPROLITE
	24.5	30	36	54	1.0	90		D	
	29.5	26	60	40	0.8	100+			WEATHERED ROCK
	34.5	60			0.0	60/0.0			
							RS-1		CRYSTALLINE ROCK (GNEISS)
							RS-2		

Elevation scale: 565.0, 560.0, 555.0, 550.0, 545.0, 540.0, 535.0, 530.0, 525.0, 520.0, 515.0, 510.0, 505.0, 500.0, 495.0, 490.0

Blows per foot scale: 0, 25, 50, 75, 100

CORING TERMINATED AT ELEVATION 522.2 FEET IN CRYSTALLINE ROCK (GNEISS)

CORE BORING REPORT

PROJECT: **33234.1.1** ID: **B-3694** COUNTY: **Rockingham** BORING NO: **B1-A**

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

LOCATION OF BORING: -L- Sta. 17+10, Offset 25' LT COMPLETION DATE: 5/6/04

COLLAR or GROUND ELEVATION: 567.2 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
532.2	35.0	2:28					(35.0'-39.4') Dark gray, slightly weathered to fresh, moderately hard to hard, moderately close
		2:54		5.0	2.0	RS-1	fractured, thickly bedded biotite gneiss with some garnets, also quartz and feldspar porphyroblasts,
		2:58	5.0			(37.4-37.8)	highly fractured from 35.0' to 37.5' at less than 30 degrees, 38.7' at 30 degrees
		2:47		(100%)	(40%)		(39.4'-40.0') Dark green-gray, slightly weathered to fresh, hard, close fractured, thickly bedded,
527.2	40.0	3:02					calc-silicate gneiss, quartz vein at 38.4'-38.7' and 50 degree fracture at 39.9'
527.2	40.0	3:20				RS-2	Dark green-gray, slightly weathered to fresh, moderately hard to hard, moderately close fractured,
		5:00		5.0	1.8	(40.0-40.6)	thickly bedded, calc-silicate gneiss with fractures at 40.6'-45 degrees, 41.5'-15 degrees, 41.8'-42.4'
		4:15	5.0				was highly fractured (very micaceous), 43.1' and 44.3'-70 degrees
		4:30		(100%)	(36%)		
522.2	45.0	4:45					

BOREHOLE TERMINATED AT ELEVATION OF 522.2 FEET, IN GNEISS.