

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL UNIT BORING LOG

PROJECT NO. 8.2495501	ID. B-3649	COUNTY GUILFORD	GEOLOGIST J. L. LOVE
SITE DESCRIPTION BRIDGE NO. 227 ON -L- (SR 3000) OVER BEAVER CREEK			GROUND WATER
BORING NO. B2-B	BORING LOCATION 17+84	OFFSET 19' RT	ALIGNMENT -L-
COLLAR ELEVATION 613.6'	NORTHING 834386	EASTING 1803102	0 HR. N/A 24 HR. 9.5'
TOTAL DEPTH 35.3'	DRILL MACHINE BK-51	DRILL METHOD NW-CASING	HAMMER TYPE AUTOMATIC
START DATE 05/01/03	COMPLETION DATE 05/01/03	SURFACE WATER DEPTH N/A	DEPTH TO ROCK 21.3'

ELEV. (FT.)	DEPTH (FT.)	BLOW COUNT			PEN. (FT.)	BLOWS PER FOOT				SAMPLE NUMBER	LOG	SOIL AND ROCK DESCRIPTION
		0.5'	1.0'	1.5'		0	25	50	75			
613.6											M	ROADWAY EMBANKMENT, ORANGE-BROWN, SILTY SAND
610.0	6.3	2	3	3	1.0	6					S	ALLUVIAL, TAN-BROWN, CLAYEY SAND
605.0	11.3	4	13	11	1.0	24					M	TAN-BROWN, SILTY SAND
600.0	16.3	20	80	0.8					100-F		M	RESIDUAL, BROWN AND WHITE, COARSE SAND
595.0												WEATHERED ROCK (METAMORPHOSED GRANITE)
590.0												CRYSTALLINE ROCK (DARK GRAY, MODERATELY SEVERELY WEATHERED, HARD, CLOSELY FRACTURED, AMPHIBOLITE)
585.0												RS-3 LIGHT GRAY, PINK AND WHITE, SLIGHTLY WEATHERED TO FRESH, HARD TO VERY HARD, VERY WIDELY FRACTURED, METAMORPHOSED GRANITE
580.0												REC = 94% RQD = 82%
575.0												CORING TERMINATED AT ELEVATION 578.3 FEET IN CRYSTALLINE ROCK (METAMORPHOSED GRANITE)
570.0												
565.0												
560.0												
555.0												
550.0												
545.0												
540.0												
535.0												

CORE BORING REPORT

PROJECT: 8.2495501 ID: B-3649 COUNTY: Guilford BORING NO: B2-B

DESCRIPTION: Bridge No. 227 on -L- (SR 3000) over Beaver Creek

LOCATION OF BORING: -L- Sta. 17+84, 19' RT COMPLETION DATE: 5/1/03

COLLAR or GROUND ELEVATION: 613.6 ft CORE SIZE: NXWL GEOLOGIST: N.T.R., J.L.L.

CORE EQUIPMENT: BK-51 DRILLER: L.B.M.

ELEV (ft)	DEPTH (ft)	DRILL RATE (min/ft)	RUN (ft)	REC (%)	RQD (%)	SAMPLE NUMBER	FIELD CLASSIFICATION and REMARKS
592.3	21.3	0:38 0:48 1:50 2:24	4.8	4.0 (83%)	2.3 (48%)		21.3 - 23.3; DARK GRAY, MODERATELY SEVERELY WEATHERED, HARD, CLOSELY FRACTURED, AMPHIBOLITE
587.5	26.1	6:47/0.8					23.3 - 26.1; LIGHT GRAY, PINK AND WHITE, SLIGHTLY WEATHERED TO FRESH, HARD TO VERY HARD, CLOSELY TO VERY WIDELY FRACTURED METAMORPHOSED GRANITE
587.5	26.1	4:44 2:26 2:48 2:19	5.0	5.0 (100%)	5.0 (100%)		26.1 - 31.1; LIGHT GRAY, PINK AND WHITE, SLIGHTLY WEATHERED TO FRESH, HARD TO VERY HARD, CLOSELY TO VERY WIDELY FRACTURED METAMORPHOSED GRANITE
582.5	31.1	3:14					31.1 - 33.2; LIGHT GRAY, PINK AND WHITE, SLIGHTLY WEATHERED TO FRESH, HARD TO VERY HARD, CLOSELY TO VERY WIDELY FRACTURED METAMORPHOSED GRANITE
582.5	31.1	4:56 26:37 5:00/0.1	2.1	2.1 (100%)	2.1 (100%)		31.1 - 33.2; LIGHT GRAY, PINK AND WHITE, SLIGHTLY WEATHERED TO FRESH, HARD TO VERY HARD, CLOSELY TO VERY WIDELY FRACTURED METAMORPHOSED GRANITE
580.4	33.2					RS-3	33.2 - 35.3; LIGHT GRAY, PINK AND WHITE, SLIGHTLY WEATHERED TO FRESH, HARD TO VERY HARD, CLOSELY TO VERY WIDELY FRACTURED METAMORPHOSED GRANITE
580.4	33.2	28:05 35:00 5:00/0.1	2.1	2.1 (100%)	2.1 (100%)		33.2 - 35.3; LIGHT GRAY, PINK AND WHITE, SLIGHTLY WEATHERED TO FRESH, HARD TO VERY HARD, CLOSELY TO VERY WIDELY FRACTURED METAMORPHOSED GRANITE
578.3	35.3						

BOREHOLE TERMINATED AT ELEVATION OF 578.3 FEET, IN ROCK.