

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL UNIT BORING LOG

PROJECT NO. 34459.1.6	ID. R-2552C	COUNTY JOHNSTON	GEOLOGIST J.L. LOVE
SITE DESCRIPTION NEW BRIDGE ON -L2LT- (US 70 BYPASS) OVER LITTLE CREEK			GROUND WATER
BORING NO. B5-B	BORING LOCATION 110+04.0	OFFSET 1.2m RT	ALIGNMENT -L2LT-
COLLAR ELEV. 54.79m	NORTHING 206182.1	EASTING 659389.3	0 HR. N/A 24 HR. 0.50m
TOTAL DEPTH 18.21m	DRILL MACHINE MOBILE B-57	DRILL METHOD CORE BORING	HAMMER TYPE MANUAL
START DATE 7/29/04	COMPLETION DATE 7/30/04	SURFACE WATER DEPTH N/A	DEPTH TO ROCK 7.87m

ELEV.	DEPTH	BLOW COUNT			PEN. (m)	BLOWS PER 30cm				SAMPLE NUMBER	LOG	SOIL AND ROCK DESCRIPTION
		15cm	15cm	15cm		0	25	50	75			
54.79												
54.00	1.12	6	8	14	0.30						M	ALLUVIAL, ORANGE AND GRAY, SANDY SILT
52.00	2.64	12	17	12	0.30						M	
50.00	4.16	19	22	15	0.30						M	RESIDUAL, PINK, TAN, AND ORANGE, SILTY SAND, SAPROLITIC
48.00	5.68	35	28	72	0.19							SOFT WEATHERED ROCK (META-GRANITE)
46.00	7.20	50			0.02							HARD WEATHERED ROCK (META-GRANITE)
44.00											RS-8	HARD ROCK, TAN-PINK, MODERATELY SEVERELY TO SLIGHTLY WEATHERED, EXTREMELY TO MODERATELY FRACTURED (META-GRANITE) REC = 78% ROD = 9%
42.00												
40.00												
38.00												
36.00												

CORING TERMINATED AT ELEVATION 36.58 METERS IN HARD ROCK (META-GRANITE)

CORE BORING REPORT

PROJECT: 34459.1.6 ID: R-2552 C COUNTY: Johnston BORING NO: B5-B
 DESCRIPTION: New Bridge on -L2LT- (US 70 Bypass) over Little Creek
 LOCATION OF BORING: -L- Sta. 110+04.0, Offset 1.2m RT COMPLETION DATE: 7/30/04
 COLLAR or GROUND ELEVATION: 54.79 m CORE SIZE: NQ2 GEOLOGIST: J.L. Love
 CORE EQUIPMENT: Mobile B-57, HSA, NQ-barrel DRILLER: M. Moseley

ELEV (m)	DEPTH (m)	DRILL RATE (min/0.3m)	RUN (m)	REC (m) (%)	RQD (m) (%)	SAMPLE NUMBER	FIELD CLASSIFICATION and REMARKS
46.92	7.87	2:13	1.52	1.35 (89%)	0.26 (17%)		Tan-pink, moderately severely to moderately weathered, moderately fractured, meta-granite with a quartz vein from 8.70m to 8.80m. Fractures at 25 degrees.
		2:56					
		2:29					
45.40	9.39	2:51	1.52	1.48 (97%)	0.36 (24%)	RS-8 9.46-9.63	Tan-pink, moderately weathered, moderately fractured, meta-granite. Joints at 35, 70, and 85 degrees.
45.40	9.39	7:03					
		5:09					
43.88	10.91	3:19	1.52	1.52 (100%)	0.35 (23%)		Tan-pink, moderately weathered, moderately fractured, meta-granite. Joints at 35 and 85 degrees.
43.88	10.91	6:32					
		2:32					
42.36	12.43	2:18	1.52	0.52 (34%)	0.00 (0%)		Tan-pink, moderately to moderately severely weathered, extremely to moderately fractured, meta-granite. Joints at 35 and 85 degrees. 1.00m of soil washed away during coring.
42.36	12.43	2:15					
		2:05					
40.84	13.95	1:45	1.52	0.70 (46%)	0.00 (0%)		Tan-pink, moderately severely to slightly weathered, extremely to moderately fractured, meta-granite.
40.84	13.95	2:35					
		1:51					
39.32	15.47	2:00	1.22	1.03 (84%)	0.00 (0%)		Tan-pink, moderately severely to slightly weathered, extremely to moderately fractured, meta-granite. Joints at 60 and 85 to 90 degrees.
39.32	15.47	3:20					
		3:02					
38.10	16.69	3:28	1.52	1.46 (96%)	0.00 (0%)		Tan-pink, moderately severely to slightly weathered, extremely to moderately fractured, meta-granite. Joints at 60 and 85 to 90 degrees.
38.10	16.69	4:15					
		3:38					
36.58	18.21	2:15					
		4:18					
		3:01					

BOREHOLE TERMINATED AT ELEVATION OF 36.58 METERS, IN META-GRANITE.