

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 -L2RT- (US 70 BYPASS) OVER LITTLE CREEK						GROUND WATER						
BORING NO. EB2-A		BORING LOCATION III+01.0		OFFSET 1.8m LT		ALIGNMENT -L2RT-						
COLLAR ELEV. 57.68m		NORTHING 206069.3		EASTING 659447.5		0 HR. DRY 24 HR. DRY						
TOTAL DEPTH 12.29m		DRILL MACHINE MOBILE B-57		DRILL METHOD HSA/CORE		HAMMER TYPE MANUAL						
START DATE 8/9/04		COMPLETION DATE 8/10/04		SURFACE WATER DEPTH N/A		DEPTH TO ROCK 1.65m						
ELEV.	DEPTH	BLOW COUNT			PEN. (m)	BLOWS PER 30cm				SAMPLE NUMBER	LOG	SOIL AND ROCK DESCRIPTION
		15cm	15cm	15cm		0	25	50	75			
57.68												
	1.04	23	7	11	0.30							RESIDUAL, RED-ORANGE, SILTY SANDY CLAY
56.00												
54.00												
52.00												
50.00												
48.00												
46.00												
44.00												
42.00												
40.00												
38.00												
CORING TERMINATED AT ELEVATION 45.39 METERS IN HARD ROCK (META-GABBRO)												

CORE BORING REPORT							
PROJECT: 34459.1.6		ID: R-2552 C		COUNTY: Johnston		BORING NO: EB2-A	
DESCRIPTION: New Bridge on -L2RT- (US 70 Bypass) over Little Creek							
LOCATION OF BORING: -L- Sta. 111+01.0, Offset 1.8m LT				COMPLETION DATE: 8/10/04			
COLLAR or GROUND ELEVATION: 57.68 m		CORE SIZE: NQ2		GEOLOGIST: J.L. Love			
CORE EQUIPMENT: Mobile B-57, N-Casing, NQ-barrel				DRILLER: M. Moseley			
ELEV (m)	DEPTH (m)	DRILL RATE (min/0.3m)	RUN (m)	REC (%)	RQD (%)	SAMPLE NUMBER	FIELD CLASSIFICATION and REMARKS
56.03	1.65	2:32					(1.65-1.95m) Boulder, dark green, slightly weathered to fresh, sound, meta-gabbro
		0:32		0.40	0.25		(1.95-3.17m) Soil: Red-orange, stiff, silty sandy clay.
		0:41	1.52	(26%)	(16%)		
		0:23					
54.51	3.17	0:12					
54.51	3.17	1:11					(3.17-4.08m) Boulder: dark green, slightly weathered to fresh, sound, meta-gabbro
		1:42		0.92	0.59		(4.08-4.45m) Soil: Tan-orange, very stiff, sandy silt
		2:10	1.52	(61%)	(39%)		(4.45-4.69m) Boulder: Dark green, slightly weathered to fresh, sound, meta-gabbro
		0:57					
52.99	4.69	1:03					
52.99	4.69	0:48					(4.69-4.91m) Boulder cont'd from Run 2: Dark green, fresh, sound, meta-gabbro
		0:22		1.06	0.17	S-61	(4.91-6.21m) Soil: Tan-orange, very stiff, sandy silt (S-61 6.00 to 6.21m)
		0:14	1.52	(70%)	(11%)		
		0:15					
51.47	6.21	2:23					
51.47	6.21	1:25					(6.21-6.51m) Boulder: Dark green, fresh, sound, meta-gabbro with clay soil (cored down through contact between boulder and soil)
		0:19		0.72	0.22		(6.51-7.22m) Soil: Red-orange, very stiff, silty sandy clay (S-62 7.00 to 7.22m)
		0:09	1.52	(47%)	(14%)		(7.22-7.52m) Boulder: Dark green, fresh, sound, meta-gabbro
		1:50					(7.52-7.73m) Soil: Orange-brown, very stiff, silty sandy clay
49.95	7.73	0:32					
49.95	7.73	0:17					(7.73-9.15m) Soil: Orange-brown, very stiff, silty sandy clay
		0:24		0.10	0.00		Note: Begin Hard Rock at 9.15m
		0:20	1.52	(7%)	(0%)		(9.15-9.25m) Dark green, fresh, slightly fractured, meta-gabbro
		0:34					
48.43	9.25	1:16					
48.43	9.25	1:05					Dark green, moderately weathered to fresh, slightly fractured to sound, meta-gabbro with clay-filled joints
		1:30		0.56	0.00		
		1:09	1.52	(37%)	(0%)		
		1:53					
46.91	10.77	0:25					
46.91	10.77	2:09					Dark green, fresh, moderately fractured to sound, meta-gabbro
		1:21		1.17	0.37		
		1:53	1.52	(77%)	(24%)	RS-3	
		2:25				12.09-	
45.39	12.29	3:26				12.23	
BOREHOLE TERMINATED AT ELEVATION OF 45.39 METERS, IN META-GABBRO.							