

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION GEOTECHNICAL UNIT BORING LOG

PROJECT NO. 33198.1.I	ID. B-3652	COUNTY GUILFORD	GEOLOGIST O.B. OTI
SITE DESCRIPTION BRIDGE NO. 20 ON -L- (SR 4121) OVER DEEP RIVER			GROUND WATER
BORING NO. BI-A	BORING LOCATION 21+35	OFFSET 11' LT	ALIGNMENT -L-
COLLAR ELEVATION 726.1'	NORTHING 817606	EASTING 1720238	0 HR. N/A
TOTAL DEPTH 32.5'	DRILL MACHINE CME-550	DRILL METHOD N-CASING/CORE	HAMMER TYPE AUTOMATIC
START DATE 4/20/04	COMPLETION DATE 4/22/04	SURFACE WATER DEPTH N/A	DEPTH TO ROCK 17.5'

ELEV. (FT.)	DEPTH (FT.)	BLOW COUNT			PEN. (FT.)	BLOWS PER FOOT					SAMPLE NUMBER	MOI.	LOG	SOIL AND ROCK DESCRIPTION	
		0.5'	1.0'	1.5'		0	25	50	75	100					
726.1	0.0	2	2	2	1.0										
725.0	2.5	1	2	2	1.0									M	ALLUVIAL, GRAY-TAN-BROWN, SANDY SILT
	7.5	3	4	4	1.0									M	
720.0	12.5	3	8	75	1.0									SS-14	
715.0	17.5	60			0.0									SS-15	RESIDUAL, TAN-GRAY-BROWN, SILTY SAND
710.0															WEATHERED ROCK (GRANITE)
705.0														RS-1	CRYSTALLINE ROCK, GRAY-WHITE, MODERATELY WEATHERED TO FRESH, HARD TO VERY HARD, MODERATELY CLOSE TO VERY CLOSELY FRACTURED, GRANITE
700.0														RS-2	REC: 85% RQD: 79%
695.0															
690.0															
685.0															
680.0															
675.0															
670.0															
665.0															
660.0															
655.0															
650.0															

BORING TERMINATED AT
ELEVATION 693.6 FEET
IN CRYSTALLINE ROCK
(GRANITE)

CORE BORING REPORT

PROJECT: 33198.1 ID: B-3652 COUNTY: Guilford BORING NO: B1-A

DESCRIPTION: Bridge No. 20 on -L- (SR 4121) over Deep River

LOCATION OF BORING: -L- Sta. 21+35, 11' LT COMPLETION DATE: 4/22/04

COLLAR or GROUND ELEVATION: 726.1 ft CORE SIZE: NXWL GEOLOGIST: O.B. Oti

CORE EQUIPMENT: N-Casing, CME-550 DRILLER: D.W. Dixon

ELEV (ft)	DEPTH (ft)	DRILL RATE (min/ft)	RUN (ft)	REC (ft) (%)	RQD (ft) (%)	SAMPLE NUMBER	FIELD CLASSIFICATION and REMARKS
708.6	17.5	1:05	5.0	3.3 (66%)	2.3 (46%)	RS-1 22.1-22.5'	(17.5-20.1' - WR) Gray-white, moderately weathered, hard, moderately close fractured, coarse grained granite
		1:00					
		0:40					
		2:11					
703.6	22.5	2:02	5.0	4.5 (90%)	4.5 (90%)	RS-2 28.0-28.5'	(20.1-22.5') Gray-white, fresh, very hard, very closely fractured, coarse grained granite
703.6	22.5	2:01					
		2:40					
		2:42					
698.6	27.5	2:44	5.0	5.0 (100%)	5.0 (100%)	RS-2 28.0-28.5'	Gray-white, fresh, very hard, very closely fractured, coarse grained granite
698.6	27.5	2:12					
		2:15					
		2:22					
693.6	32.5	2:15					

BOREHOLE TERMINATED AT ELEVATION OF 693.6 FEET, IN GRANITE.