

PROJECT NO. 112.1044010		ID.		COUNTY Haywood		GEOLOGIST B. Deobald							
SITE DESCRIPTION I-40 Slide at Mile Marker 1; Site 4						GROUND WATER (ft)							
BORING NO. MB-9		BORING LOCATION 22+92		OFFSET 9 ft RT		ALIGNMENT -EL4-							
COLLAR ELEV. 1,551.0 ft		NORTHING 759,809 US ft		EASTING 789,613 US ft		0 HR. ND							
TOTAL DEPTH 40.4 ft		DRILL MACHINE D-50 ATV		DRILL METHOD Rotary Wash/Core		HAMMER TYPE 140-lb. Manual							
DATE STARTED 12/14/04		COMPLETED 12/15/04		SURFACE WATER DEPTH N/A									
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100
1,551.0					Ground Surface							1,551.0 0.0	
1,551.0	0.0	3	9	8	Roadway Embankment Fill: Gray and tan, silty, f. to cse. SAND (A-2-4) w/ METAGRAYWACKE gravel and cobbles						M		
1,546.4	4.6	60/0.2									M		
1,541.5	9.5	7	10	9							M		
1,536.5	14.5	17	2	3							M		
1,530.2	20.8	5	6	5	Roadway Embankment Fill: Tan, clayey, f. to cse. sandy, SILT (A-4) w/ METAGRAYWACKE gravel and cobbles						W	1,532.5 18.5	
1,526.4	24.6	60/0.0			Crystalline Rock: Brown and dark to light gray, slightly weathered to fresh, v. closely to widely fractured, hard to very hard METAGRAYWACKE (11 joints at 0-10°; 1 joint at 30°; 4 joints at 45°; 3 joints at 70-80°; very close to closely fractured zone from 35.1 to 36.5 ft; with trace clay and Fe staining)							1,526.8 24.2	
					Boring and coring terminated at 40.4 ft (Elev. 1510.6 ft) in Crystalline Rock: Fresh, widely fractured, very hard METAGRAYWACKE							1,510.6 40.4	
Bits Used: Series 2 casing bit w/ advancer; series 2 NQ core bit													
Drilling Fluid: Water													
SPT Values obtained from offset boring approximately 1.0 ft upstation and 1.0 ft right of MB-9 core boring location.													

NCDOT BORE SINGLE 0900.GPJ NC\_DOT.GDT 1/24/05

PROJECT NO. 112.1044010		ID.		COUNTY Haywood		GEOLOGIST B. Deobald			
SITE DESCRIPTION I-40 Slide at Mile Marker 1; Site 4						GROUND WATER (ft)			
BORING NO. MB-9		BORING LOCATION 22+92		OFFSET 9 ft RT		ALIGNMENT -EL4-			
COLLAR ELEV. 1,551.0 ft		NORTHING 759,809 US ft		EASTING 789,613 US ft		0 HR. ND			
TOTAL DEPTH 40.4 ft		DRILL MACHINE D-50 ATV		DRILL METHOD Rotary Wash/Core		HAMMER TYPE 140-lb. Manual			
DATE STARTED 12/14/04		COMPLETED 12/15/04		SURFACE WATER DEPTH N/A					
CORE SIZE NQ		TOTAL RUN 19.2 ft		DRILLER D. Rhodes					
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (ft) %	RQD (ft) %	REC. (ft) %	RQD (ft) %		
									Begin Coring @ 13.6 ft
1,537.4	13.6	3.0	10:00 N=5	(N/A)	(N/A)	(N/A)	(N/A)		Roadway Embankment Fill: Gray and tan, silty, f. to cse. SAND (A-2-4) w/ METAGRAYWACKE gravel and cobbles
1,534.4	16.6		3:15 2:35						
			N=11						Roadway Embankment Fill: Tan, clayey, f. to cse. sandy, SILT (A-4) w/ METAGRAYWACKE gravel and cobbles
1,526.8	24.2	5.7	5:00 N=60/0.0	(5.5) 96%	(3.5) 61%	(15.9) 98%	(12.1) 75%		Crystalline Rock: Brown and dark to light gray, slightly weathered to fresh, v. closely to widely fractured, hard to very hard METAGRAYWACKE (11 joints at 0-10°; 1 joint at 30°; 4 joints at 45°; 3 joints at 70-80°; very close to closely fractured zone from 35.1 to 36.5 ft; with trace clay and Fe staining)
1,521.1	29.9		5:00 4:00						
		5.2	5:00/0.7	(5.2) 100%	(4.8) 92%				
1,515.9	35.1		4:00 3:00						
		5.3	1:00/0.2	(5.2) 98%	(3.8) 72%				
1,510.6	40.4		5:00 4:00 4:00 4:00 1:00/0.3						Coring terminated at 40.4 ft (Elev. 1510.6 ft) in Crystalline Rock: Fresh, widely fractured, very hard METAGRAYWACKE

NCDOT CORE SINGLE 0900.GPJ NC\_DOT.GDT 1/24/05