



MACTEC

N.C.D.O.T. GEOTECHNICAL UNIT BORING LOG

SHEET 1 OF 1

PROJECT NO. 112.1044010		ID.		COUNTY Haywood		GEOLOGIST B. Deobald							
SITE DESCRIPTION I-40 Slide between Mile Marker 4 and 5; Site 5							GROUND WATER (ft)						
BORING NO. MB-1		BORING LOCATION 21+38		OFFSET 5 ft RT	ALIGNMENT -EY-		0 HR. FIAD						
COLLAR ELEV. 1,823.2 ft		NORTHING 753,424 US ft		EASTING 800,415 US ft		24 HR. FIAD							
TOTAL DEPTH 43.5 ft		DRILL MACHINE D-50 ATV		DRILL METHOD Rotary Wash/Core		HAMMER TYPE 140-lb. Manual							
DATE STARTED 12/7/04		COMPLETED 12/9/04		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
1,823.2													Ground Surface
													1,823.2 Asphalt
													Roadway Embankment Fill: Gray and tan, silty, f. to cse. SAND (A-2-4) w/ METAGRAYWACKE gravel, cobbles, and boulders
													1,791.5 Crystalline Rock: White and dark to light gray, fresh, closely to widely fractured, hard to very hard METAGRAYWACKE (Joints Not Determined)
													1,779.7 Boring and coring terminated at 43.5 ft (Elev. 1779.7 ft) in Crystalline Rock: Fresh, widely fractured, very hard METAGRAYWACKE
													Bits Used: Series 2 casing bit w/ advancer; series 2 and 10 NQ core bits
													Drilling Fluid: Water

NCDOT BORE SINGLE 0900.GPJ NC_DOT.GDT 1/24/05



MACTEC

N.C.D.O.T. GEOTECHNICAL UNIT CORE BORING REPORT

SHEET 30 OF 32

SHEET 1 OF 1

PROJECT NO. 112.1044010		ID.		COUNTY Haywood		GEOLOGIST B. Deobald				
SITE DESCRIPTION I-40 Slide between Mile Marker 4 and 5; Site 5							GROUND WATER (ft)			
BORING NO. MB-1		BORING LOCATION 21+38		OFFSET 5 ft RT	ALIGNMENT -EY-		0 HR. FIAD			
COLLAR ELEV. 1,823.2 ft		NORTHING 753,424 US ft		EASTING 800,415 US ft		24 HR. FIAD				
TOTAL DEPTH 43.5 ft		DRILL MACHINE D-50 ATV		DRILL METHOD Rotary Wash/Core		HAMMER TYPE 140-lb. Manual				
DATE STARTED 12/7/04		COMPLETED 12/9/04		SURFACE WATER DEPTH N/A						
CORE SIZE NQ		TOTAL RUN 32.3 ft		DRILLER D. Rhodes						
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (ft) %	RQD (ft) %		REC. (ft) %	RQD (ft) %		
										Begin Coring @ 5.4 ft
1,817.8	5.4	4.8	0:45 0:50 0:30 0:10	(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, cobbles, and boulders
1,813.0	10.2		0:10/0.8							
1,807.5	15.7	4.4	1:30 0:45 3:40 0:10	(N/A)	(N/A)					
1,803.1	20.1		0:10/0.4							
1,802.8	20.4	4.8	3:25 2:55 0:30 3:40	(N/A)	(N/A)					
1,798.0	25.2		1:35/0.8							
		5.0	4:30 3:10 1:30 6:00 2:00	(N/A)	(N/A)					
1,793.0	30.2		5:20	(N/A)	(N/A)					
1,791.5	31.7	1.5	10:50	(N/A)	(N/A)					1,791.5 Crystalline Rock: White and dark to light gray, fresh, closely to widely fractured, hard to very hard METAGRAYWACKE (Joints Not Determined)
		3.4	14:00 7:30 5:40/0.9	(3.4) 100%	(2.0) 59%		(11.8) 100%	(10.4) 88%		
1,788.1	35.1		5:30 7:00 6:20 7:10 5:30	(5.0) 100%	(5.0) 100%					
		3.4	9:20 16:00 30:00 90:00/0.4	(3.4) 100%	(3.4) 100%					
1,779.7	43.5									1,779.7 Coring terminated at 43.5 ft (Elev. 1779.7 ft) in Crystalline Rock: Fresh, widely fractured, very hard METAGRAYWACKE

NCDOT BORE SINGLE 0900.GPJ NC_DOT.GDT 1/24/05