



MACTEC

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

SHEET 1 OF 1

PROJECT NO. 112.1044010		ID.		COUNTY Haywood		GEOLOGIST B. Parks							
SITE DESCRIPTION I-40 Slide between Mile Marker 4 and 5; Site 5						GROUND WATER (ft)							
BORING NO. MB-15		BORING LOCATION 19+39		OFFSET 5 ft RT		ALIGNMENT -EY-							
COLLAR ELEV. 1,825.8 ft		NORTHING 753,305 US ft		EASTING 800,254 US ft		0 HR. FIAD							
TOTAL DEPTH 55.7 ft		DRILL MACHINE CME-45C trailer		DRILL METHOD Rotary Wash/Core		HAMMER TYPE 140-lb. Manual							
DATE STARTED 1/6/05		COMPLETED 1/11/05		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
1,825.8													Ground
													1,825.8 Asphalt 0.0
													1,824.9 Roadway Embankment Fill: Gray and tan, silty, f. to cse. SAND (A-2-4) with METAGRAYWACKE and QUARTZITE gravel, cobbles, boulders 0.9
													1,786.5 Crystalline Rock: Dark to light gray, very slightly weathered to fresh, closely to moderately closely fractured, hard to very hard, METAGRAYWACKE (2 joints at 50-70°, 10 joints at 80-90° and 1 vertical joint all w/ Fe staining, a quartz vein cross cuts core at 45-50° at 43.3 ft.) 39.3
													1,770.1 Boring and coring terminated at 55.7 ft (Elev. 1770.1 ft) in Crystalline Rock: Freshly weathered, hard to very hard, very closely to widely fractured METAGRAYWACKE 55.7
													Bits Used: Series 2 NQ core bit Drilling Fluid: Water

NCDOT CORE SINGLE 0900.GPJ NC_DOT.GDT 1/26/05



MACTEC

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

SHEET 29 OF 32

SHEET 1 OF 1

PROJECT NO. 112.1044010		ID.		COUNTY Haywood		GEOLOGIST B. Parks					
SITE DESCRIPTION I-40 Slide between Mile Marker 4 and 5; Site 5						GROUND WATER (ft)					
BORING NO. MB-15		BORING LOCATION 19+39		OFFSET 5 ft RT		ALIGNMENT -EY-					
COLLAR ELEV. 1,825.8 ft		NORTHING 753,305 US ft		EASTING 800,254 US ft		0 HR. FIAD					
TOTAL DEPTH 55.7 ft		DRILL MACHINE CME-45C trailer		DRILL METHOD Rotary Wash/Core		HAMMER TYPE 140-lb. Manual					
DATE STARTED 1/6/05		COMPLETED 1/11/05		SURFACE WATER DEPTH N/A							
CORE SIZE NQ				TOTAL RUN 53.7 ft		DRILLER F. Cox					
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 @ 2.0 ft
1,823.8	2.0	3.7	6:00 2:31	(N/A)	(N/A)		(N/A)	(N/A)			Roadway Embankment Fill: Gray and tan, silty, f. to cse. SAND (A-2-4) with METAGRAYWACKE and QUARTZITE gravel, cobbles, boulders (continued)
1,820.1	5.7	5.0	3:45 5:38/0.7	(N/A)	(N/A)						
1,815.1	10.7	5.0	3:00 7:30 2:45 4:20 4:00	(N/A)	(N/A)						
1,810.1	15.7	5.0	8:12 4:30 4:05 3:45 4:22	(N/A)	(N/A)						
1,805.1	20.7	5.0	2:35 2:10 2:20 5:45 2:57	(N/A)	(N/A)						
1,800.1	25.7	5.0	2:00 2:00 2:05 1:35 1:40	(N/A)	(N/A)						
1,795.1	30.7	5.0	2:00 4:20 3:35 3:45 5:10	(N/A)	(N/A)						
1,790.1	35.7	3.6	0:36 2:20 2:45	(N/A)	(N/A)						
1,786.5	39.3	5.0	2:25/0.6 2:15/0.4	(1.4) 100%	(0.7) 50%		(16.4) 100%	(14.6) 89%			1,786.5 Crystalline Rock: Dark to light gray, very slightly weathered to fresh, closely to moderately closely fractured, hard to very hard, METAGRAYWACKE (2 joints at 50-70°, 10 joints at 80-90° and 1 vertical joint all w/ Fe staining, a quartz vein cross cuts core at 45-50° at 43.3 ft.) 39.3
1,785.1	40.7	5.0	3:05 4:35 4:25 6:15 4:25 4:15	(5.0) 100%	(3.9) 78%						
1,780.1	45.7	5.0	3:25 3:00 2:55 5:05 4:40	(5.0) 100%	(5.0) 100%						
1,775.1	50.7	5.0	5:55 5:35 5:20 6:05 5:42	(5.0) 100%	(5.0) 100%						
1,770.1	55.7										1,770.1 Coring terminated at 55.7 ft (Elev. 1770.1 ft) in Crystalline Rock: Fresh, very closely to widely fractured, hard to very hard, METAGRAYWACKE 55.7

NCDOT CORE SINGLE 0900.GPJ NC_DOT.GDT 1/26/05