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 at Mile Marker 1; Site 4			**GROUND WATER (ft)**
BORING NO. MB-8	**BORING LOCATION** 21+85	**OFFSET** 7 ft RT	**ALIGNMENT** -EL4-	**0 HR.** ND
COLLAR ELEV. 1,549.3 ft	**NORTHING** 759,896 **US ft**	**EASTING** 789,552 **US ft**	**24 HR.** ND
TOTAL DEPTH 50.3 ft	**DRILL MACHINE** CME-45C trailer	**DRILL METHOD** Rotary Wash/Core	**HAMMER TYPE** 140-lb. Manual
DATE STARTED 12/15/04	**COMPLETED** 12/16/04	**SURFACE WATER DEPTH** N/A	

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
1,549.3					Ground Surface				1,549.3 — 0.0
1,548.9	0.4	18	19	20	39		M/W		Asphalt (1,548.9 — 0.4)
1,544.8	4.5	25	15	16	31		M/W		Roadway Embankment Fill: Dark gray and tan, silty, f. to cse. SAND (A-2-4) w/ some to high METAGRAYWACKE gravel content (1,546.3 — 3.0)
1,539.8	9.5	13	9	14	23		M/W		Roadaway Embankment Fill: Tan-brown, gray, and tan, f. sandy SILT (A-4) w/ some to high METAGRAYWACKE gravel content
1,534.8	14.5	60	40/0.1		100/0.6				
1,529.8	19.5	26	74/0.3		100/0.8		M/W		(1,528.5 — 20.8) Roadway Embankment Fill: Dark gray and tan, silty, f. to cse. SAND (A-2-4) w/ METAGRAYWACKE gravel, cobbles, and boulders
1,524.8	24.5	19	22	39	61		M/W		
1,523.1	26.2	60/0.0			60/0.0				1,509.0 — 40.3
									Crystalline Rock: Dark gray to gray, slightly weathered to fresh, closely to mod. closely fractured, hard to very hard, METAGRAYWACKE (4 joints at 45-55°; numerous joints at 90°)
									1,499.0 — 50.3
									Boring and coring terminated at 50.3 ft (Elev. 1499.0 ft) in Crystalline Rock: slightly weathered to fresh, closely to mod. closely fractured, hard to very hard METAGRAYWACKE

Bits Used: Series 2 casing bit w/ advancer; series 2 NQ core bit

Drilling Fluid: Water

SPT Values between 0 and 16 ft. obtained from an offset boring located approximately 3.0 ft upstation of MB-8 core boring location.

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

MACTEC

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

SHEET 22

SHEET 1 OF 1

PROJECT NO. 112.1044010	**ID.**	**COUNTY** Haywood	**GEOLOGIST** B. Parks
SITE DESCRIPTION I-40 Slide at Mile Marker 1; Site 4			**GROUND WATER (ft)**
BORING NO. MB-8	**BORING LOCATION** 21+85	**OFFSET** 7 ft RT	**ALIGNMENT** -EL4-	**0 HR.** ND
COLLAR ELEV. 1,549.3 ft	**NORTHING** 759,896 **US ft**	**EASTING** 789,552 **US ft**	**24 HR.** ND
TOTAL DEPTH 50.3 ft	**DRILL MACHINE** CME-45C trailer	**DRILL METHOD** Rotary Wash/Core	**HAMMER TYPE** 140-lb. Manual
DATE STARTED 12/15/04	**COMPLETED** 12/16/04	**SURFACE WATER DEPTH** N/A	
CORE SIZE NQ	**TOTAL RUN** 24.0 ft	**DRILLER** F. Cox	

ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN REC. (ft) %	RUN RQD (ft) %	SAMP. NO.	STRATA REC. (ft) %	STRATA RQD (ft) %	LOG	DESCRIPTION AND REMARKS
										Begin Coring @ 26.3 ft
1,523.0	26.3	4.0	2:20 2:52 2:49 2:01	(N/A)	(N/A)		(N/A)	(N/A)		Roadway Embankment Fill: Dark gray and tan, silty, f. to cse. SAND (A-2-4) w/ METAGRAYWACKE gravel, cobbles, and boulders
1,519.0	30.3	5.0	2:16 3:02 2:45 2:45 2:01	(N/A)	(N/A)					
1,514.0	35.3	5.0	2:35 3:30 3:15 2:45 2:02	(N/A)	(N/A)					
1,509.0	40.3	5.0	2:45 3:30 2:40 4:45 3:10	(4.7) 94%	(0.7) 14%		(9.4) 94%	(5.4) 54%		1,509.0 — 40.3 Crystalline Rock: Dark gray to gray, slightly weathered to fresh, closely to mod. closely fractured, hard to very hard, METAGRAYWACKE (4 joints at 45-55°; numerous joints at 90°)
1,504.0	45.3	5.0	3:50 2:17 2:45 2:43 2:35	(4.7) 94%	(4.7) 94%					
1,499.0	50.3									1,499.0 — 50.3 Coring terminated at 50.3 ft (Elev. 1499.0 ft) in Crystalline Rock: slightly weathered to fresh, very closely to widely fractured, hard to very hard METAGRAYWACKE

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