



NCDOT GEOTECHNICAL ENGINEERING UNIT

BORELOG REPORT

PROJECT NO. 36597.1.1	ID. I-4744	COUNTY Wake	GEOLOGIST D. Racey
SITE DESCRIPTION I-40 Widening from W. of Wade Ave. to E. of Jones Franklin Rd.			GROUND WTR (ft)
BORING NO. EB1-B WBL	STATION 270+25	OFFSET 18ft LT	ALIGNMENT -LREV-
COLLAR ELEV. 449.2 ft	TOTAL DEPTH 99.9 ft	NORTHING 734,205	EASTING 2,078,362
DRILL MACHINE CME 550	DRILL METHOD 2.25" ID HSA	HAMMER TYPE Automatic	
START DATE 05/22/09	COMP. DATE 05/22/09	SURFACE WATER DEPTH N/A	DEPTH TO ROCK N/A

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				
450													GROUND SURFACE	0.0
445													ROADWAY EMBANKMENT Red-brown, silty CLAY (A-7-5).	
440													Tan & red-brown, highly silty CLAY (A-7-5).	8.0
435													Red-brown, highly plastic, silty CLAY (A-7-6), with gravel, becomes micaceous @ 16.0'.	12.0
430													Tan-brown, silty CLAY (A-7-5), with gravel.	20.0
425													Red-brown, highly plastic, silty CLAY (A-7-6), with gravel.	22.0
420														
415													RESIDUAL Tan-brown, clayey SILT (A-5), with some mica & gravel.	32.0
410														
405														
400														
395														
390														
385	385.7	63.5	10	11	16							M	Brown, gray, white & orange, clayey SILT (A-5), micaceous, saprolitic.	63.5
380	380.7	68.5	9	15	22							M		
375	375.7	73.5	12	18	25							M	Brown, fine sandy SILT (A-4), with rock fragments, micaceous, saprolitic.	72.0
370	370.7	78.5												

NCDOT BORE SINGLE 66L-0104.GPJ NC_DOT.GDT 5/27/09



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DEPTH TO ROCK N/A			

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
370															
365	365.7	83.5	13	15	25									Brown, fine sandy SILT (A-4), with rock fragments, micaceous, saprolitic. <i>(continued)</i>	84.0
														WEATHERED ROCK	85.0
														RESIDUAL	
360	360.7	88.5	21	45	55									Brown, gray, orange & black, MICA GNEISS.	
														Brown, gray, white & orange, fine sandy SILT (A-4), micaceous, with rock fragments.	
355	355.7	93.5	20	35	45										
350	350.7	98.5	42	58/0.2											
														WEATHERED ROCK	93.5
														Brown, gray, white & orange, MICA GNEISS.	
349.3			37	33	67/0.4										
345															
340															
335															
330															
325															
320															
315															
310															
305															
300															
295															
290															

Match Line

Brown, fine sandy SILT (A-4), with rock fragments, micaceous, saprolitic. *(continued)*

WEATHERED ROCK
Brown, gray, orange & black, MICA GNEISS.

RESIDUAL
Brown, gray, white & orange, fine sandy SILT (A-4), micaceous, with rock fragments.

WEATHERED ROCK
Brown, gray, white & orange, MICA GNEISS.

Boring Terminated at Elevation 349.3 ft in WEATHERED ROCK (MICA GNEISS)

NOTES:

- 1) Augered to 63.5', began split spoon sampling.
- 2) Elevation obtained from original boring.

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