



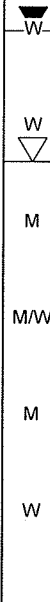
NCDOT GEOTECHNICAL ENGINEERING UNIT

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. EB2-B WBL	STATION 273+52	OFFSET 7ft LT	ALIGNMENT -LREV-
COLLAR ELEV. 454.2 ft	TOTAL DEPTH 89.0 ft	NORTHING 733,906	EASTING 2,078,498
DRILL MACHINE CME 550	DRILL METHOD 2.25" ID HSA	HAMMER TYPE Automatic	
START DATE 05/15/09	COMP. DATE 05/15/09	SURFACE WATER DEPTH N/A	DEPTH TO ROCK N/A

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)	
455														454.2	0.0	GROUND SURFACE ROADWAY EMBANKMENT
450																Maroon-brown, silty CLAY (A-7-5), with mica.
445																
440														442.2	12.0	Red-brown, highly silty CLAY (A-7-5), with gravel & mica.
435																
430																
425														429.2	25.0	Maroon-brown, highly silty CLAY (A-7-5), with mica.
420														422.2	32.0	RESIDUAL Gray-brown to pink, orange, tan & light gray, fine sandy clayey SILT (A-5), highly micaceous, with quartz fragments, saprolitic.
415																
410																
405	405.7	48.5	4	6	9											
400	400.7	53.5	8	11	15											
395	395.7	58.5	7	10	15											
390	390.7	63.5	10	13	18											
385	385.7	68.5	9	16	17											
380	380.7	73.5	12	9	10											
375	375.7	78.5														

NCDOT BORE SINGLE 66L-0104.GPJ NC_DOT.GDT 5/19/09





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. EB2-B WBL	STATION 273+52	OFFSET 7ft LT	ALIGNMENT -LREV-
COLLAR ELEV. 454.2 ft	TOTAL DEPTH 89.0 ft	NORTHING 733,906	EASTING 2,078,498
DRILL MACHINE CME 550	DRILL METHOD 2.25" ID HSA	HAMMER TYPE Automatic	
START DATE 05/15/09	COMP. DATE 05/15/09	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					
375															
			Match Line												
			47	53/0.4'						100/0.9'		M		WEATHERED ROCK	
	370.7	83.5								100/0.4'		M		Gray, tan, tan-orange & black, MICA GNEISS. (continued)	
365	365.7	88.5								100/0.5'		M		365.2	89.0
			Boring Terminated at Elevation 365.2 ft in WEATHERED ROCK (MICA GNEISS)												
360															
355															
350															
345															
340															
335															
330															
325															
320															
315															
310															
305															
300															
295															

NOTES:
 1) Augered to 48.5', began split spoon sampling.
 2) Elevation obtained from original boring.

NCDOT BORE SINGLE 66L-0104.GPJ NC_DOT_GDT 5/19/09



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. B-33	STATION 312+51	OFFSET 185ft LT	ALIGNMENT -LREV-
COLLAR ELEV. 454.0 ft	TOTAL DEPTH 30.0 ft	NORTHING 731,033	EASTING 2,080,660
DRILL MACHINE CME 550		DRILL METHOD 2.25" ID HSA	
START DATE 05/14/09		COMP. DATE 05/14/09	
SURFACE WATER DEPTH N/A		HAMMER TYPE Automatic	
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				
455	454.0	0.0											GROUND SURFACE	0.0
450	450.5	3.5	1	2	5	7						D/M	RESIDUAL Tan-gray, silty fine SAND (A-2-4), with trace roots.	2.0
445	445.5	8.5	6	10	14	24						D/M	Maroon, tan-yellow & orange, fine sandy silty CLAY (A-7-5), with quartz fragments, highly micaceous zones, saprolitic.	7.0
440	440.5	13.5	5	5	6	11						M	Tan-yellow, white & pink to maroon, orange & dark gray, fine sandy SILT (A-4), with mica, saprolitic.	
435	435.5	18.5	3	4	5	9						M		
430	430.5	23.5	3	5	5	10						M		
425	425.5	28.5	3	4	5	9						M		
420	424.0	27.0	3	3	4	7						M	Dark gray & black, SILT (A-4), highly micaceous, with a layer of orange & white, silty fine sand & quartz fragments.	27.0
415													Boring Terminated at Elevation 424.0 ft in SILT (RESIDUAL)	30.0
410														
405														
400														
395														
390														
385														
380														
375														

NOTES:
 1) Blow count from 3.5'-5.0' likely inflated due to quartz fragments.
 2) Elevation interpolated from cross sections.

NCDOT BORE SINGLE 66L-0104.GPJ NC_DOT.GDT 5/19/09



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. B-34	STATION 318+65	OFFSET 185ft LT	ALIGNMENT -LREV-
COLLAR ELEV. 430.1 ft	TOTAL DEPTH 30.0 ft	NORTHING 730,945	EASTING 2,081,228
DRILL MACHINE CME 550		DRILL METHOD 2.25" ID HSA	
START DATE 05/14/09		COMP. DATE 05/14/09	
SURFACE WATER DEPTH N/A		HAMMER TYPE Automatic	
DEPTH TO ROCK N/A			

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MO	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
435																
430	430.1	0.0														
			2	3	3							M		GROUND SURFACE	0.0	
														RESIDUAL	0.8	
	426.6	3.5	4	4	9							M		Tan, silty fine SAND (A-2-4), with trace roots.	3.0	
425														Tan-orange, silty fine SAND (A-2-4), with quartz fragments & some clay.		
	421.6	8.5	3	5	6							M		Maroon, tan-yellow & white to brown, tan-yellow & light gray, fine sandy SILT (A-4), with trace to little mica, quartz fragments, saprolitic.		
420																
	416.6	13.5	3	4	6							M				
415																
	411.6	18.5	3	5	7							M				
410																
	406.6	23.5	5	7	10							M/W				
405																
	401.6	28.5	4	6	9							M/W				
400																
														Boring Terminated at Elevation 400.1 ft in SILT (RESIDUAL)	30.0	
395																
390																
385																
380																
375																
370																
365																
360																
355																

NOTES:

- 1) Elevation interpolated from cross sections.