



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-1	STATION 34+50	OFFSET 87ft RT	ALIGNMENT -LREV-
COLLAR ELEV. 372.9 ft	TOTAL DEPTH 10.1 ft	NORTHING 754,429	EASTING 2,074,752
DRILL MACHINE CME 550		DRILL METHOD 2.25" ID HSA	HAMMER TYPE Automatic
START DATE 05/18/09	COMP. DATE 05/18/09	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	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
375																
	372.3	0.6														
	370.8	2.1	16	10	4	14							M		GROUND SURFACE	0.0
	369.3	3.6	2	3	4								M		ASPHALT	0.6
	367.8	5.1	3	3	7								M		ROADWAY EMBANKMENT	2.1
	366.3	6.6	4	5	5								M		Tan-gray, silty fine to coarse SAND & GRAVEL (A-1-b).	
	364.3	8.6	3	4	5								M		Red-brown, brown & dark gray, silty CLAY (A-7-5), with gravel & wood fragments.	5.1
			4	4	5								M/W		Brown & red-brown, fine sandy & clayey SILT (A-5), with gravel, wood fragments & zones of clay.	10.1
360															Boring Terminated at Elevation 362.8 ft in SILT (ROADWAY EMBANKMENT)	
355															NOTES:	
350															1) Asphalt from 0.0'-0.6'.	
345															2) Boring backfilled upon completion due to location on shoulder; 24 hr. water level not measured.	
340																
335																
330																
325																
320																
315																
310																
305																
300																
295																

NCDOT BORE SINGLE 66L-0104.GPJ NC_DOT_GDT_5/19/09



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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-32	STATION 136+55	OFFSET 88ft RT	ALIGNMENT -LREV-
COLLAR ELEV. 409.7 ft	TOTAL DEPTH 30.0 ft	NORTHING 745,724	EASTING 2,076,462
DRILL MACHINE CME 550		DRILL METHOD 2.25" ID HSA	
START DATE 05/19/09		COMP. DATE 05/19/09	
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				
410	409.1	0.6											GROUND SURFACE	0.0
			4	3	4	7						M	ASPHALT	0.6
	408.2	3.5										M	ROADWAY EMBANKMENT	2.0
405			2	4	4	8						M	Gray-brown, clayey silty fine SAND (A-2-4), with gravel.	
												M	Tan & brown with orange, clayey SILT (A-5), with mica & gravel.	
400	401.2	8.5	3	4	5	9						M		
												M		
395	396.2	13.5	3	4	5	9						M		
												M		
390	391.2	18.5	2	2	3	5						M/W	Orange, dark gray & brown, silty fine sandy CLAY (A-7-5), with wood fragments & mica.	17.0
												M/W		
385	386.2	23.5	9	9	11	20						Sat.		24.2
												Sat.	ALLUVIAL	
380	381.2	28.5	27	17	22	39						D	Gray, fine to coarse SAND (A-1-b), with quartz gravel & some silt.	28.0
												D	RESIDUAL	
												D	Light & dark gray with tan-orange, highly silty fine to coarse SAND (A-2-4), with rock fragments, saprolitic.	30.0
375													Boring Terminated at Elevation 379.7 ft in SAND (RESIDUAL)	
370														
365														
360														
355														
350														
345														
340														
335														
330														

- NOTES:
- 1) Asphalt from 0.0'-0.6'.
 - 2) Elevation interpolated from cross sections.
 - 3) Geologist indicates strata break in split Spoon at a depth of 24.2 feet.

NCDOT BORE SINGLE 66L-0104.GPJ NC_DOT_GDT 5/21/09



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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-35	STATION 322+21	OFFSET 88ft LT	ALIGNMENT -LREV-
COLLAR ELEV. 425.5 ft	TOTAL DEPTH 30.0 ft	NORTHING 730,827	EASTING 2,081,576
DRILL MACHINE CME 550	DRILL METHOD 2.25" ID HSA	HAMMER TYPE Automatic	
START DATE 05/19/09	COMP. DATE 05/19/09	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	DEPTH (ft)
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
430															
425	425.5	0.0												GROUND SURFACE	0.0
			4	5	2									ROADWAY EMBANKMENT	1.2
														Tan-gray, fine to coarse SAND & GRAVEL (A-1-b), with some silt.	
420	422.0	3.5	3	3	4									RESIDUAL	
														Maroon with tan & gray, fine sandy SILT (A-4), micaceous, saprolitic.	
415	417.0	8.5	3	4	5										
410	412.0	13.5	3	4	4										
405	407.0	18.5	4	4	5										
400	402.0	23.5	3	4	4										
395	397.0	28.5	3	3	3										
															Boring Terminated at Elevation 395.5 ft in SILT (RESIDUAL)
390															
385															
380															
375															
370															
365															
360															
355															
350															

NOTES:

- 1) Geologist indicates strata break in split spoon at a depth of 1.2'.
- 2) Elevation interpolated from cross sections.

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