



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-2	STATION 67+00	OFFSET 30ft RT	ALIGNMENT -LREV-
COLLAR ELEV. 399.9 ft	TOTAL DEPTH 10.0 ft	NORTHING 752,447	EASTING 2,077,267
DRILL MACHINE CME 550		DRILL METHOD 2.25" ID HSA	HAMMER TYPE Automatic
START DATE 05/20/09	COMP. DATE 05/20/09	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						
400														399.9	GROUND SURFACE	0.0
	399.9	0.0	2	3	5	8						M	ROADWAY EMBANKMENT			
	397.9	2.0	4	6	8							M		Red-brown, highly silty CLAY (A-7-5), micaceous, with roots.		
	396.4	3.5	5	5	6							M	Red & tan, clayey SILT (A-5), micaceous.	396.4	3.5	
	394.9	5.0	4	6	7							M				
	393.4	6.5	3	4	6							M				
	391.4	8.5	3	5	6							M				
390														389.9	Boring Terminated at Elevation 389.9 ft in SILT (ROADWAY EMBANKMENT)	10.0
385																
380																
375																
370																
365																
360																
355																
350																
345																
340																
335																
330																
325																
320																

NOTES:
1) Elevation interpolated from cross sections.



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SITE DESCRIPTION I-40 Widening from W. of Wade Ave. to E. of Jones Franklin Rd.			GROUND WTR (ft)
BORING NO. B-3	STATION 70+00	OFFSET 20ft RT	ALIGNMENT -LREV-
COLLAR ELEV. 398.0 ft	TOTAL DEPTH 10.0 ft	NORTHING 752,187	EASTING 2,077,410
DRILL MACHINE CME 550	DRILL METHOD 2.25" ID HSA		HAMMER TYPE Automatic
START DATE 05/20/09	COMP. DATE 05/20/09	SURFACE WATER DEPTH N/A	DEPTH TO ROCK N/A

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	L O G	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
400																
	398.0	0.0												398.0	GROUND SURFACE	0.0
	396.0	2.0	2	3	4	7						M		396.0	ROADWAY EMBANKMENT Red-brown & tan, silty CLAY (A-7-5), with mica, roots, trace gravel.	2.0
	394.5	3.5	4	5	8	13						M		394.5	Red, tan & white, clayey SILT (A-5), micaceous, trace gravel.	3.5
	393.0	5.0	6	8	10	18						M		393.0	Red, tan & white, clayey SILT (A-5), micaceous, trace gravel.	5.0
	391.5	6.5	5	7	7	14						M			Red-brown, silty CLAY (A-7-5), micaceous, Tan, tan-yellow & red, fine sandy SILT (A-4), micaceous.	
	389.5	8.5	4	7	9	16						M				
			4	5	7	12						M		388.0	Boring Terminated at Elevation 388.0 ft in SILT (ROADWAY EMBANKMENT)	10.0
385																
380																
375																
370																
365																
360																
355																
350																
345																
340																
335																
330																
325																
320																

NOTES:
1) Elevation interpolated from cross sections.

NCDOT BORE SINGLE 66L-0104.GPJ NC_DOT.GDT 5/22/09

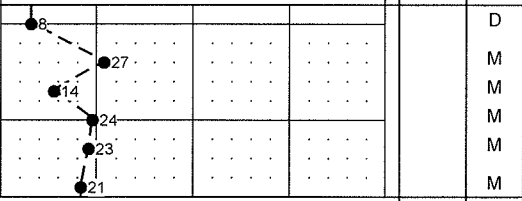


NCDOT GEOTECHNICAL ENGINEERING UNIT

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-4	STATION 85+00	OFFSET 30ft RT	ALIGNMENT -LREV-
COLLAR ELEV. 391.0 ft	TOTAL DEPTH 10.0 ft	NORTHING 750,733	EASTING 2,077,630
DRILL MACHINE CME 550		DRILL METHOD 2.25" ID HSA	HAMMER TYPE Automatic
START DATE 05/20/09	COMP. DATE 05/20/09	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						
395																
391.0	391.0	0.0													391.0	0.0
390	389.0	2.0	2	3	5											
	387.5	3.5	5	7	20											
	386.0	5.0	10	7	7											
385	384.5	6.5	7	11	13											
	382.5	8.5	11	12	11											
380			6	7	14										381.0	10.0
															Boring Terminated at Elevation 381.0 ft in SILT (ROADWAY EMBANKMENT)	
375																
370																
365																
360																
355																
350																
345																
340																
335																
330																
325																
320																
315																



GROUND SURFACE 0.0

ROADWAY EMBANKMENT
Brown with black & white, red & tan, fine sandy SILT (A-4), with mica & gravel, roots in upper 1.5'.

Boring Terminated at Elevation 381.0 ft in SILT (ROADWAY EMBANKMENT)

- NOTES:
- 1) Elevation interpolated from cross sections.
 - 2) Blow counts from 2.0'-4.0' and 5.0'-6.5' likely inflated due to gravel.



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SITE DESCRIPTION I-40 Widening from W. of Wade Ave. to E. of Jones Franklin Rd.			GROUND WTR (ft)
BORING NO. B-5	STATION 100+00	OFFSET 20ft RT	ALIGNMENT -LREV-
COLLAR ELEV. 394.6 ft	TOTAL DEPTH 10.0 ft	NORTHING 749,265	EASTING 2,077,339
DRILL MACHINE CME 550	DRILL METHOD 2.25" ID HSA	HAMMER TYPE Automatic	
START DATE 05/20/09	COMP. DATE 05/20/09	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					ELEV. (ft)	
395																
	394.6	0.0	2	4	11									394.6	GROUND SURFACE	0.0
	392.6	2.0												393.6	ROADWAY EMBANKMENT	1.0
	391.1	3.5	18	24	29										Tan-brown, fine sandy clayey SILT (A-5), with mica, roots, gravel.	
390	389.6	5.0	11	21	30										RESIDUAL	
	388.1	6.5	17	29	45										Tan-gray, white & black, fine sandy SILT (A-4), micaceous, saprolitic, with rock fragments.	6.5
	386.1	8.5	31	69/0.4											WEATHERED ROCK	7.4
385			27	38	51										Tan, gray & black, MICA GNEISS.	10.0
															RESIDUAL	
380															Tan, gray & black, highly silty fine SAND (A-2-4), micaceous, saprolitic.	
															Boring Terminated at Elevation 384.6 ft in SAND (RESIDUAL)	
375																
370																
365																
360																
355																
350																
345																
340																
335																
330																
325																
320																
315																

NOTES:
 1) Geologist indicates strata break in split spoon at a depth of 1.0'.
 2) Elevation interpolated from cross sections.

NCDOT BORE SINGLE 66L-0104.GPJ NC_DOT_GDT_5/21/09