N.C.D.O.T. GEOTECHNICAL UNIT
BORING LOG

PROJECT NO. 34209.1.1	**ID No.** I-4025A	**COUNTY** Yadkin/Surry	**GEOLOGIST** D. Goodnight/P. Weaver
SITE DESCRIPTION Bridge No. 13 on I-77 SBL Over Yadkin River, Yadkin Valley RR, and NC 268			**GROUND WATER (ft)**
BORING NO. EB2-A	**BORING LOCATION** 32+75	**OFFSET** 36ft LT	**ALIGNMENT** -SBL-
COLLAR ELEV. 922.3 ft	**NORTHING** 915443.35	**EASTING** 1462875.36	
TOTAL DEPTH 49.4 ft	**DRILL MACHINE** CME 850	**DRILL METHOD** Wash Rotary	**HAMMER TYPE** 140 lb./Automatic
DATE STARTED 4/21/04	**COMPLETED** 4/21/04	**SURFACE WATER DEPTH** NA	

GROUND WATER (ft)	
0 HR.	12.0
24 HR.	28.0

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
922.3									922.3 — 0.00
921.3	1.0								RESIDUAL: Stiff, Red-Brown, Fine Sandy, Silty CLAY
918.8	3.5	3	5	5	10	SS-23	26.3%		919.3 — 3.0
916.3	6.0	2	3	4	7		M		RESIDUAL: Soft to Hard, Red-Brown and Red-Tan, Clayey, Coarse to Fine Sandy SILT with Rock Fragments and a Little Mica
913.8	8.5	2	2	4	6		M		
908.8	13.5	2	1	3	4		M		
903.8	18.5	2	3	4	7		M		
898.8	23.5	7	20	35	55		M		
893.8	28.5	10	21	25	46	SS-24	23.2%		
888.8	33.5	10	11	18	29		M		
883.8	38.5	20	30	42	72		M		883.3 — 39.0
878.8	43.5	15	35	65/0.5	100/1.0				WEATHERED ROCK: Grey and Brown, Biotite Schist
873.8	48.5	17	60	40/0.3	100/0.8				
		22	78/0.4		100/0.9				872.9 — 49.4
									Boring Terminated at Elevation 872.9 feet in Weathered Rock: Biotite Schist

Note: Bentonite slurry used as drilling fluid; Density = 63.0 lbs./cu. ft.

NCDOT BORE SINGLE 07104006.GPJ NC_DOT.GDT 7/13/04

N.C.D.O.T. GEOTECHNICAL UNIT
BORING LOG

PROJECT NO. 34209.1.1	**ID No.** I-4025A	**COUNTY** Yadkin/Surry	**GEOLOGIST** P. Alton
SITE DESCRIPTION Bridge No. 13 on I-77 SBL Over Yadkin River, Yadkin Valley RR, and NC 268			**GROUND WATER (ft)**
BORING NO. EB2-B	**BORING LOCATION** 32+98	**OFFSET** 36ft RT	**ALIGNMENT** -SBL-
COLLAR ELEV. 928.2 ft	**NORTHING** 915479.45	**EASTING** 1462941.73	
TOTAL DEPTH 53.6 ft	**DRILL MACHINE** Acker AD-2	**DRILL METHOD** HSA	**HAMMER TYPE** 140 lb./Manual
DATE STARTED 5/5/04	**COMPLETED** 5/5/04	**SURFACE WATER DEPTH** NA	

GROUND WATER (ft)	
0 HR.	NM
24 HR.	34.0

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
928.2									928.2 — 0.00
927.2	1.0								ROADWAY EMBANKMENT FILL: Stiff, Brown-Red, Coarse to Fine Sandy, Silty CLAY with a Trace of Organics (Rootlets)
924.7	3.5	4	5	6	11		M		
922.2	6.0	4	5	5	10		M		
919.7	8.5	3	4	6	10	SS-25	29.2%		919.2 — 9.0
914.7	13.5	4	6	8	14		M		ROADWAY EMBANKMENT FILL: Stiff, Yellow-Brown, Coarse to Fine Sandy SILT — 917.2 — 11.0
909.7	18.5	6	6	7	13		M		Stiff to Hard, Yellow-Brown to Grey and Brown, Coarse to Fine Sandy SILT
904.7	23.5	6	8	11	19		M		
899.7	28.5	10	12	16	28	SS-26	18.8%		
894.7	33.5	11	20	19	39		M		
889.7	38.5	15	26	33	59				
884.7	43.5	19	31	49	80		M		884.2 — 44.0
879.7	48.5	24	35	65/0.4	100/0.9				WEATHERED ROCK: Brown and Grey Biotite Schist
874.7	53.5	18	50	50/0.1	100/0.6				874.6 — 53.6
		60/0.1			60/0.1				Boring Terminated with SPT Refusal at Elevation 874.6 feet on Crystalline Rock: Biotite Schist

NCDOT BORE SINGLE 07104008.GPJ NC_DOT.GDT 7/13/04