

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
GEOTECHNICAL UNIT BORING LOG

PROJECT NO 33356.1.1		ID B-3922		COUNTY WATAUGA		GEOLOGIST L. L. ACKER						
SITE DESCRIPTION BRIDGE NO. 316 ON SR 1149 OVER COVE CREEK							GND WATER					
BORING NO EB1-A		NORTHING 0.00		EASTING 0.00		0 HR N/A						
ALIGNMENT -L-		BORING LOCATION 10+28.000		OFFSET 23.00ft LT		24 HR 4.00ft						
COLLAR ELEV 2635.50ft		TOTAL DEPTH 19.00ft		START DATE 4/20/04		COMPLETION DATE 04/20/04						
DRILL MACHINE CME 550			DRILL METHOD ROTARY W/O MUD			HAMMER TYPE AUTOMATIC						
SURFACE WATER DEPTH		DEPTH TO ROCK 15.60ft					Log EB1-A, Page 1 of 1					
ELEV	DEPTH	BLOW CT			PEN (ft)	BLOWS PER FOOT				SAMPLE NO	LOG	SOIL AND ROCK DESCRIPTION
		6in	6in	6in		0	25	50	75			
2635.50	0.00	0	0	1	1.0	Ground Surface						
	4.00	0	0	2	1.0	1				SS-2	M	ALLUVIUM: BROWN SANDY SILT
2630.00	6.50	18	12	44	1.0	2				SS-3	W	ALLUVIUM: COARSE SAND, GRAVEL AND BOULDERS
	9.00	100			0.4	56						WEATHERED ROCK: BIOTITE GNEISS
	14.00	58	42		0.9	100						WEATHERED ROCK: BIOTITE GNEISS
2620.00	14.00	58	42		0.9	100						WEATHERED ROCK: BIOTITE GNEISS
2616.50	19.00	100			0.0	100						HARD ROCK: BIOTITE GNEISS
TERMINATED BORING IN HARD ROCK AT ELEVATION 2616.5 FEET												

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SITE DESCRIPTION BRIDGE NO. 316 ON SR 1149 OVER COVE CREEK							GND WATER					
BORING NO EB1-B		NORTHING 0.00		EASTING 0.00		0 HR N/A						
ALIGNMENT -L-		BORING LOCATION 10+21.000		OFFSET 15.00ft RT		24 HR N/A						
COLLAR ELEV 2641.90ft		TOTAL DEPTH 25.00ft		START DATE 4/20/04		COMPLETION DATE 04/20/04						
DRILL MACHINE CME 550			DRILL METHOD ROTARY W/O MUD			HAMMER TYPE AUTOMATIC						
SURFACE WATER DEPTH N/A		DEPTH TO ROCK N/A					Log EB1-B, Page 1 of 1					
ELEV	DEPTH	BLOW CT			PEN (ft)	BLOWS PER FOOT				SAMPLE NO	LOG	SOIL AND ROCK DESCRIPTION
		6in	6in	6in		0	25	50	75			
2641.90	0.00	1	3	1	1.0	Ground Surface						
2640.00	4.00	1	1	1	1.0	4				SS-4	M	EMBANKMENT: YELLOW-BROWN SANDY SILT WITH FEW ROCK FRAGMENTS TO BOULDERS
	6.50	9	9	3	1.0	2						EMBANKMENT: YELLOW-BROWN SANDY SILT WITH FEW ROCK FRAGMENTS TO BOULDERS
	9.00	1	1	1	1.0	2						EMBANKMENT: YELLOW-BROWN SANDY SILT WITH FEW ROCK FRAGMENTS TO BOULDERS
2630.00	11.50	0	6	6	1.0	12				SS-5	W	ALLUVIUM: DARK GRAY SILTY CLAY
	14.00	71	29		0.9	100						ALLUVIUM: COARSE SAND, GRAVEL AND BOULDERS
	19.00	47	40	32	1.0	72						WEATHERED ROCK
2620.00	19.00	47	40	32	1.0	72				SS-6	M	HARD ROCK
	23.70	27	30	70	0.7	100						SAPROLITE: GRAY-BROWN, MICACEOUS SILT
2616.90	23.70	27	30	70	0.7	100						WEATHERED ROCK
TERMINATED BORING IN WEATHERED ROCK AT ELEVATION 2616.9 FEET.												