



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

SHEET 23 OF 34

WBS ELEMENT NO33454.1.1		ID No. B-4096	COUNTY Davidson	GEOLOGIST P. Weaver/P. Alton											
SITE DESCRIPTION Bridge 140 Over Rich Fork Creek on US 29-70/I-85 Business					GROUND WATER (ft)										
BORING NO. B2-C	BORING LOCATION 20+71	OFFSET 9ft RT	ALIGNMENT -L-	0 HR.	NM										
COLLAR ELEV. 656.1 ft	NORTHING 771978.23	EASTING 1651460.56	24 HR. 2.0												
TOTAL DEPTH 35.0 ft	DRILL MACHINE CME 55	DRILL METHOD Wash Rotary/NQ Core	HAMMER TYPE 140 lb. Manual												
DATE STARTED 3/8/04	COMPLETED 3/8/04	SURFACE WATER DEPTH NA													
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION			
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100		
656.1												656.1	0.00		
652.6	3.5	2	4	7								649.1	7.0	ALLUVIAL: Stiff, Grey with Brown, Clayey, Coarse to Fine Sandy SILT	
647.6	8.5	4	4	7								644.1	12.0	ALLUVIAL: Stiff, Grey with Brown, Silty CLAY with a Little Fine Sand	
642.6	13.5	2	2	5								630.5	25.5	RESIDUAL: Medium Stiff to Hard, Dark Grey, Coarse to Fine Sandy SILT with a Trace to a Little Mica	
637.6	18.5	6	7	10								621.1	35.0	CRYSTALLINE ROCK: Grey with White, Slightly to Very Slightly Weathered, Hard to Very Hard, Metadiorite with Wide Fracture Spacing	
632.6	23.5	11	16	20											
630.6	25.5	60/0.0													
Coring Terminated at Elevation 621.1 feet in Crystalline Rock: Metadiorite															
Note: Drill fluid = creek water + bentonite Mud density = 64.5 lbs./cu. ft. Slurry was used for soil and weathered rock drilling. Creek water alone was used for rock coring.															

NCDOT BORE SINGLE 07104004.GPJ NC DOT GDT 3/19/04



N.C.D.O.T. GEOTECHNICAL UNIT
CORE BORING REPORT

SHEET 23 OF 34

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TOTAL DEPTH 35.0 ft	DRILL MACHINE CME 55	DRILL METHOD Wash Rotary/NQ Core	HAMMER TYPE 140 lb. Manual							
DATE STARTED 3/8/04	COMPLETED 3/8/04	SURFACE WATER DEPTH NA								
CORE SIZE NQ		TOTAL RUN 9.5 ft		DRILLER R. Toothman						
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (ft)%	RQD (ft)%		REC. (ft)%	RQD (ft)%		
										Begin Coring @ 25.5 ft
630.6	25.5	4.5	N=60/0.0 1:30 2:30 2:00 2:45 1:00/0.5	(4.5) 100%	(4.5) 100%		(9.5) 100%	(9.5) 100%		CRYSTALLINE ROCK: Grey with White, Slightly to Very Slightly Weathered, Hard to Very Hard, Metadiorite with Wide Fracture Spacing
626.1	30.0									1 natural fracture @ 10°
		5.0		(5.0) 100%	(5.0) 100%					*Note: 1.2 ft. of core at end of Run #2 could not be retrieved from borehole. REC and RQD percentages are based on assumption that rock remaining in borehole is the same as the rock recovered.
621.1	35.0		3:00 3:00 3:00 3:15							Coring Terminated at Elevation 621.1 feet in Crystalline Rock: Metadiorite
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NCDOT CORE SINGLE 07104004.GPJ NC DOT GDT 3/22/04