



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

SHEET 19 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. B1-B		BORING LOCATION 19+89		OFFSET 20ft RT	ALIGNMENT -L-								
COLLAR ELEV. 655.2 ft		NORTHING 771938.59	EASTING 1651387.88		0 HR. NM								
TOTAL DEPTH 60.8 ft		DRILL MACHINE CME 850	DRILL METHOD Wash Rotary/HQ Core	HAMMER TYPE 140 lb. Automatic									
DATE STARTED 2/20/04		COMPLETED 2/23/04		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
655.2													655.2 0.00
654.2	1.0	2	2	2									652.2 3.0
651.7	3.5	2	3	7									
649.2	6.0	6	4	2									
646.7	8.5	WOH	2	2									
641.7	13.5	3	1	2									
636.7	18.5	3	5	9									
631.7	23.5	4	7	10									
626.7	28.5	16	41	59/0.4									
619.0	36.2	50	50/0.3										



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CORE BORING REPORT

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DATE STARTED 2/20/04		COMPLETED 2/23/04		SURFACE WATER DEPTH NA						
CORE SIZE HQ			TOTAL RUN 30.1 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. (%)	RQD (%)		
										Begin Coring @ 29.9 ft
625.3	29.9	1.5	2:30	(1.5)	(0.0)		(1.5)	(0.0)		623.3 29.9
623.8	31.4	4.8	0:25/0.5	100%	0%		100%	0%		623.8 31.4
			1:00	(0.9)	(0.0)		(0.9)	NA		
			1:30	19%	0%		14%			
			1:15							
			2:10							
619.0	36.2		1:15/0.8	(1.3)	(0.8)		(1.3)	(0.9)		616.8 38.4
			2:00/0.2	48%	30%		100%	69%		615.5 39.7
618.2	37.0	2.7	2:00/0.2	48%	30%		(1.3)	(0.9)		615.5 39.7
615.5	39.7		2:00	(1.2)	NA		(1.2)	NA		614.1 41.1
614.1	41.1	1.4	1:15	86%	(4.9)		(6.2)	(6.2)		614.1 41.1
		4.9	5:15/0.5	(4.9)	100%		(6.2)	100%		
			2:40/0.5	100%			100%	100%		
			3:45/0.9							
609.2	46.0		3:30							
		5.0	3:45	(4.1)	(2.3)		(0.9)	(0.0)		607.9 47.3
			3:40	82%	46%		(0.9)	0%		606.1 49.1
			3:30				(1.9)	(0.9)		603.8 51.4
604.2	51.0	4.9	3:30/0.9	(4.5)	(4.5)		(9.4)	(9.4)		603.8 51.4
			3:00	92%	92%		100%	100%		
			5:40							
			4:30							
			4:00							
599.3	55.9		4:10	(4.9)	(4.9)					
		4.9	3:15	100%	100%					
			3:50							
			4:05							
594.4	60.8		4:00/0.9							594.4 60.8
			4:10							
			3:45							
			3:55							
			4:35							
			5:00/0.9							

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

NCDOT BORE SINGLE 07104004.GPJ NC DOT.GDT 4/6/04

*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.

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