



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

SHEET 16 OF 28

PROJECT NO. 8.2495201		ID. B-3646		COUNTY Guilford		GEOLOGIST G. Licayan/P. Weaver							
SITE DESCRIPTION Bridge 185 Over the Haw River on SR 2712						GROUND WATER (ft)							
BORING NO. B2-A		BORING LOCATION 16+75		OFFSET 13ft LT		ALIGNMENT -L-							
COLLAR ELEV. 609.2 ft		NORTHING 900245.02		EASTING 1839181.58		0 HR. NA							
TOTAL DEPTH 34.3 ft		DRILL MACHINE CME 45		DRILL METHOD Wash Drill/NQ Core		HAMMER TYPE 140 lb. Manual							
DATE STARTED 7/10/03		COMPLETED 7/11/03		SURFACE WATER DEPTH 3.0									
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
612.2													Water Surface Elevation 612.2
609.2	0.0												River Bottom Elevation 609.2
605.7	3.5	7	12	9									ALLUVIAL: Medium Dense, Brown, Silty, Fine to Coarse SAND with Gravel
599.9	9.3	55	45/0.3										WEATHERED ROCK: White and Tan Metavolcanic Rock
594.9	14.3	12	15	17									WEATHERED ROCK: White and Tan, Severely Weathered, Soft to Medium Hard Metavolcanic Rock with Very Close Fracture Spacing
		12	88/0.2										RESIDUAL: Hard; Brown, White, and Tan; Coarse to Fine Sandy SILT with Rock Fragments and a Trace of Clay
													WEATHERED ROCK: Brown, White, and Tan; Severely Weathered; Medium to Moderately Hard Metavolcanic Rock with Very Close Fracture Spacing
													CRYSTALLINE ROCK: Light Grey and White, Moderately Weathered, Moderately Hard Metavolcanic Rock with Very Close to Close Fracture Spacing
													CRYSTALLINE ROCK: Dark Grey with White, Slightly Weathered, Hard Mafic Metavolcanic Rock with Close Fracture Spacing
													Coring Terminated at Elevation 574.9 feet in Crystalline Rock: Mafic Metavolcanic Rock

Note: River Water Alone Used As Drilling Fluid

NCDOT BORE FILE 07103014.GPJ NC_DOT.GDT 8/5/03



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

SHEET 16 OF 28

PROJECT NO. 8.2495201		ID. B-3646		COUNTY Guilford		GEOLOGIST G. Licayan/P. Weaver				
SITE DESCRIPTION Bridge 185 Over the Haw River on SR 2712						GROUND WATER (ft)				
BORING NO. B2-A		BORING LOCATION 16+75		OFFSET 13ft LT		ALIGNMENT -L-				
COLLAR ELEV. 609.2 ft		NORTHING 900245.02		EASTING 1839181.58		0 HR. NA				
TOTAL DEPTH 34.3 ft		DRILL MACHINE CME 45		DRILL METHOD Wash Drill/NQ Core		HAMMER TYPE 140 lb. Manual				
DATE STARTED 7/10/03		COMPLETED 7/11/03		SURFACE WATER DEPTH 3.0						
CORE SIZE NQ		TOTAL RUN 27.8 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 @ 4.3 ft
604.9	4.3	1.0	1:15	(0.25)	(0.0)		(0.25)	(NA)		WEATHERED ROCK: White and Tan, Severely Weathered, Soft to Medium Hard Metavolcanic Rock with Very Close Fracture Spacing
603.9	5.3	4.0	1:30	25%	0%		36%	(NA)		0.25 foot of Crystalline Rock recovered
599.9	9.3		1:30	(0.0)	(NA)		(0.0)	(NA)		Note: Run #1 shortened for stroke and casing
598.4	10.8	3.5	0:45/0.5	(0.7)	(NA)		(4.9)	(NA)		RESIDUAL: Hard; Brown, White, and Tan; Coarse to Fine Sandy SILT with Rock Fragments and a Trace of Clay
594.9	14.3		2:15							Note: Run #2 shortened for stroke and casing
594.2	15.0	4.3	1:00/0.3	(2.3)	(NA)					WEATHERED ROCK: Brown, White, and Tan; Severely Weathered; Medium to Moderately Hard Metavolcanic Rock with Very Close Fracture Spacing
589.9	19.3		3:15							Abundant iron staining of fabric and fracture faces
		5.0	4:00							
			1:30	(4.0)	(0.8)					
			2:45	80%	16%					
			2:10							
584.9	24.3		3:05				(3.4)	(0.8)		CRYSTALLINE ROCK: Light Grey and White, Moderately Weathered, Moderately Hard to Hard Metavolcanic Rock with Very Close to Close Fracture Spacing
		5.0	3:30	(3.0)	(1.0)		63%	15%		
			3:55	60%	20%					
			3:30							
			4:00							
579.9	29.3		4:10	(2.8)	(2.4)		(4.5)	(3.4)		Numerous high angle and low angle fractures
		5.0	4:00	56%	48%		67%	51%		Majority of jt faces heavily iron stained
			3:30							Note: Losing water Runs 5 through 7
			3:45							CRYSTALLINE ROCK: Dark Grey with White, Slightly Weathered, Hard Mafic Metavolcanic Rock with Close Fracture Spacing
574.9	34.3		4:00							its generally at 30° to 45°
			2:15							Coring Terminated at Elevation 574.9 feet in Crystalline Rock: Mafic Metavolcanic Rock
			4:00							
			7:00							

NCDOT CORE SINGLE 07103014.GPJ NC_DOT.GDT 8/5/03