



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

PROJECT NO. 33296.1.1		ID No. B-3848		COUNTY Guilford		GEOLOGIST G.Licayan/P.Weaver							
SITE DESCRIPTION Bridge No. 102 Over Lake Higgins/Brush Creek on SR 2124							GROUND WATER (ft)						
BORING NO. B2-A		BORING LOCATION 13+79		OFFSET 20ft LT		ALIGNMENT -L-							
COLLAR ELEV. 761.0 ft		NORTHING 874703.28		EASTING 1734236.88		0 HR. NA							
TOTAL DEPTH 62.9 ft		DRILL MACHINE CME 45 SKID		DRILL METHOD Wash Rotary/NQ Core		HAMMER TYPE 140 lb Manual							
DATE STARTED 5/23/05		COMPLETED 5/24/05		SURFACE WATER DEPTH 4.0 ft									
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
765.0													Water Surface
													Mud Line
760.0	1.0												761.0 0.00
757.5	3.5	2	1	1								SS-10 30.0%	ALLUVIAL: Soft to Medium Stiff, Tan and Grey, Clayey, Fine to Coarse SANDY SILT with Trace of Organics (Decayed Plant Material), Trace Mica, and Large Wood Fragments from 4.6ft to 5.0ft
755.0	6.0											W	
752.5	8.5	1	1	1								SAT	ALLUVIAL: Very Loose to Medium Dense, Tan and Grey, Silty, Fine to Coarse SAND with Trace Organics (Decayed Plant Material)
747.5	13.5	1	1	2								SAT	
742.5	18.5	2	1	2								SAT	
737.5	23.5	4	5	6								SAT	
732.5	28.5	10	8	12								SAT	
727.5	33.5	27	18	17								SS-11 W	RESIDUAL: Dense, White and Tan, Silty, Fine to Coarse SAND with a Little Rock Fragments
722.5	38.5	16	24	18								M	
717.1	43.9	10	42	58/3									722.0 39.0
		85	15/1										714.7 46.3
													710.2 50.8
													706.7 54.3
													700.3 60.7
													698.1 62.9

NCDOT BORE 07105012.GPJ NC\_DOT.GDT 6/20/05



CORE BORING REPORT  
SHEET 21 OF 34

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DATE STARTED 5/23/05		COMPLETED 5/24/05		SURFACE WATER DEPTH 4.0ft						
CORE SIZE NQ		TOTAL RUN 22.5 ft		DRILLER R.Toothman						
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (%)	RQD (%)		REC. (%)	RQD (%)		
										Begin Coring @ 39.8 ft
721.2	39.8	4.1	:05/0.1 1:30	(0.0) 0%	(NA)		(0.0) 0%	(NA)		721.2 WEATHERED ROCK: Core Loss in Black, White and Tan METAMORPHOSED GRANITIC ROCK 39.8
717.1	43.9		1:13 1:10 1:00							
716.5	44.5	4.4	N=100/6 :13/0.4	(2.6) 59%	(2.3) 52%		(4.0) 89%	(3.3) 73%		714.7 CRYSTALLINE ROCK: White to Tan, Black and Grey; Slightly to Very Slightly Weathered; Hard to Very Hard; METAMORPHOSED GRANITIC ROCK with Close to Moderately Close Fracture Spacing 46.3
712.1	48.9		:27 4:55 3:45 4:10	(4.5) 90%	(1.0) 20%		(3.1) 89%	(NA)		710.2 50.8
707.1	53.9	5.0	2:55 1:20 2:20							5 Joints at 0 Degrees to 10 Degrees 1 Joint at 25 Degrees
		5.0	2:25 3:30	(4.6) 92%	(3.4) 68%		(6.4) 100%	(5.2) 81%		706.7 WEATHERED ROCK: Green, Tan to Pink and Grey to Black; Severely Weathered; Soft to Very Soft; METAMORPHOSED GRANITIC ROCK with Close to Very Close Fracture Spacing 54.3
702.1	58.9		2:35 3:40 6:48 7:45 9:30	(4.0) 100%	(4.0) 100%		(2.2) 100%	(2.2) 100%		700.3 Very Broken with Vertical Fracture Throughout Isolated Remnants of CRYSTALLINE ROCK Abundant Epidote Causing Green Discoloration CRYSTALLINE ROCK: White, Pink, Black and Grey; Moderately to Slightly Weathered; Hard; METAMORPHOSED GRANITIC ROCK with Close Fracture Spacing 60.7
698.1	62.9		8:10 13:00 13:10 19:45							698.1 3 Joints at 50 Degrees to 60 Degrees with some Epidote 3 Joints at 10 Degrees to 20 Degrees CRYSTALLINE ROCK: White to Tan, Black and Grey with a Little Pink; Slightly to Very Slightly Weathered; Hard to Very Hard; METAMORPHOSED GRANITIC ROCK with Moderately Close Fracture Spacing 62.9
										No Natural Breaks Boring Terminated at Elevation 698.1ft in CRYSTALLINE ROCK: METAMORPHOSED GRANITIC ROCK  Run #5 Cut Short Due to Recovery of 1.0ft of Core Not Recovered from Run #5 (Barrel Full)

NCDOT CORE SINGLE 07105012C.GPJ NC\_DOT.GDT 6/20/05