



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. B1-A		BORING LOCATION 13+29		OFFSET 20ft LT	ALIGNMENT -L-	0 HR. NA	24 HR. NA						
COLLAR ELEV. 760.5 ft		NORTHING 874733.45		EASTING 1734197.13									
TOTAL DEPTH 63.4 ft		DRILL MACHINE CME 45 SKID	DRILL METHOD Wash Rotary/NQ Core		HAMMER TYPE 140 lb Manual								
DATE STARTED 5/25/05		COMPLETED 5/26/05		SURFACE WATER DEPTH 4.5ft									
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
759.5	1.0												760.5 0.00
757.0	3.5	WOH	WOH	WOH								SAT	ALLUVIAL: Very Soft to Medium Stiff, Grey, Clayey, Fine to Coarse Sandy SILT with Trace Organics (Decayed Plant Material) and with Large Wood Fragments from 7.2ft to 7.5ft
754.5	6.0											SAT	
752.0	8.5	WOH	3	1								SAT	
747.0	13.5	6	4	4								SS-6 SAT	ALLUVIAL: Loose to Dense; Red, Grey and Brown; Silty; Fine to Coarse SAND with a Little Gravel and a Trace Organics (Decayed Plant Material) and Mica
742.0	18.5	3	3	3								W	Note: Blow Count at 23.5ft Influenced by Gravel
737.0	23.5	4	7	7								W	
732.0	28.5	6	16	21								W	
727.0	33.5	29	26	32								SS-7 W	RESIDUAL: Very Dense; Black, White and Tan; Silty; Fine to Coarse SAND with a Trace of Rock Fragments and Mica
722.1	38.4	30	58	42/3									726.5 34.0
		25	17	34									724.1 36.4
													719.5 41.0
													717.1 43.4
													715.5 45.0
													714.5 46.0
													706.5 54.0
													705.0 55.5
													697.1 63.4

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



CORE BORING REPORT  
SHEET 17 OF 34

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TOTAL DEPTH 63.4 ft		DRILL MACHINE CME 45 SKID	DRILL METHOD Wash Rotary/NQ Core		HAMMER TYPE 140 lb Manual					
DATE STARTED 5/25/05		COMPLETED 5/26/05		SURFACE WATER DEPTH 4.5ft						
CORE SIZE NQ			TOTAL RUN 27.0 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 @ 34.8 ft
725.7	34.8	3.6	:10/0.6 :19	(0.7)	(NA)		(0.0)	(NA)		725.7 Core Loss in WEATHERED ROCK: Black, White and Tan; Severely Weathered METAMORPHOSED GRANITIC ROCK 34.8
722.1	38.4		:38 :35	19%			(0.0)	(NA)		724.1 RESIDUAL: Very Dense; Black White and Tan; Silty; Fine to Coarse SAND with Trace Mica 36.4
			N=51							
720.6	39.9	3.5	:17/0.5 :35	(0.0)	(NA)		(0.7)	(NA)		719.5 WEATHERED ROCK: Grey, White and Brown; Severely Weathered; Very Soft to Soft; METAMORPHOSED GRANITIC ROCK with Very Close to Close Fracture Spacing 41.0
717.1	43.4		:45 :38				(1.5)	(0.0)		717.1 43.4
717.0	43.5	4.9	N=60/1 2:35/0.9 2:50 2:00 4:30 6:00	(4.1)	(2.4)		(94%)	(0%)		715.5 45.0
712.1	48.4	4.5	6:55 10:20 12:45 23:00	(4.5)	(4.5)	RS-1	(8.0)	(100%)		714.5 Joints at 0 Degrees to 10 Degrees 46.0
707.6	52.9		10:00/0.5 41:10/0.5	70%	70%		(0.0)	(7.6)		714.5 CRYSTALLINE ROCK: White to Tan, Black and Grey; Slightly Weathered; Hard; METAMORPHOSED GRANITIC ROCK with Very Close Fracture Spacing 45.0
707.1	53.4	0.5	7:45 7:45 9:40	100%	100%		(0.0)	(NA)		706.5 5 Joints at 0 Degrees to 10 Degrees 54.0
		5.0	12:15 12:05 13:40 12:00	(0.5)	(0.5)		(0.0)	(NA)		705.0 WEATHERED ROCK: Grey, White and Brown; Severely Weathered; Medium Hard; METAMORPHOSED GRANITIC ROCK with Very Close Fracture Spacing 55.5
702.1	58.4	5.0	5:30 7:45 7:45 9:40	(4.9)	(4.7)		(7.9)	(96%)		705.0 CRYSTALLINE ROCK: White to Tan, Black and Grey; Very Slightly Weathered to Fresh; Hard to Very Hard; METAMORPHOSED GRANITIC ROCK with Wide Fracture Spacing 55.5
			9:00 12:15 12:05 13:40 12:00							697.1 No Natural Fractures 63.4
697.1	63.4									697.1 Core Loss in WEATHERED ROCK: METAMORPHOSED GRANITIC ROCK 63.4
										CRISTALLINE ROCK: White, Black and Grey with a Little Pink; Very Slightly Weathered to Fresh; Hard to Very Hard; METAMORPHOSED GRANITIC ROCK with Moderately Close to Wide Fracture Spacing
										Last 0.9ft has Close Fracture Spacing with 2 Joints at 0 Degrees
										Boring Terminated at Elevation 697.1ft in CRYSTALLINE ROCK: METAMORPHOSED GRANITIC ROCK
										Note: Run #4 Stopped at 4.5ft Due to Recovery of 0.5ft of Core Not Recovered from Run #3 (Barrel Full)
										Note: Run #5 Only 0.5ft in Length in Order to Complete Run #4 and to Check Bit

NCDOT CORE SINGLE 07105012C.GPJ NC\_DOT\_GDT 6/9/05