



PROJECT NO. 8.1631801		ID. R-2911A		COUNTY Iredell		GEOLOGIST G. Licayan				
SITE DESCRIPTION Dual Bridges on -L- (US 70) Over -Y5A-, -Y5-, and -Y5B- (NSRR)							GROUND WATER (m)			
BORING NO. B2-A RT		BORING LOCATION 39+73.0		OFFSET 5.4m RT		ALIGNMENT -L-				
0 HR. 4.57										
COLLAR ELEV. 256.16 m		NORTHING 223622.84		EASTING 447337.63		24 HR. 6.40				
TOTAL DEPTH 29.23 m		DRILL MACHINE Mobile B-57		DRILL METHOD Wash Rotary/Fishtail/HQ Core		HAMMER TYPE 63.5 kg Manual				
DATE STARTED 12/23/02			COMPLETED 12/27/02			SURFACE WATER DEPTH NA				
CORE SIZE HQ			TOTAL RUN 8.92 m			DRILLER B. Shull				
ELEV. (m)	DEPTH (m)	RUN (m)	DRILL RATE (Min/0.3m)	REC. (%)	ROD (m)	SAMP. NO.	STRATA REC. (%)	ROD (m)	LOG	DESCRIPTION AND REMARKS
										Begin Coring @ 19.70 m
236.46	19.70	1.17	0:45/0.25 1:00 1:15 2:00	(23%) 0.27	(NA)		(33%) 0.82	(NA)		236.46 WEATHERED ROCK: White, Grey, and Brown; Severely Weathered; Very Soft Biotite Gneiss with Very Close to Close Fracture Spacing Majority of feldspars are iron stained
235.29	20.87		N=100/28							
235.01	21.15	1.24	0:10/0.02 1:05 1:25 1:30 2:35	(44%) 0.55	(NA)					
233.77	22.39									
233.71	22.45	1.46	N=50/6 2:00/0.24 2:15 2:15 1:40 2:30	(66%) 0.97	(NA)		(75%) 1.33	(NA)		233.66 WEATHERED ROCK: Brown, White, and Grey; Severely Weathered; Soft to Medium Hard Biotite Gneiss with Very Close to Close Fracture Spacing Majority of jt @ 20° to 30° parallel to foliation Some iron staining of feldspars Very soft from 23.07m to 23.74m and this is where majority of core loss occurred
232.25	23.91									
232.20	23.96	1.47	N=50/5 2:40/0.25 2:50 2:30 1:20 2:10	(78%) 1.14	(NA)		(68%) 1.26	(NA)		231.84 WEATHERED ROCK: Grey, White, and Orange Brown; Severely Weathered; Soft to Very Soft Biotite Gneiss with Close to Very Close Fracture Spacing Majority of feldspars are iron stained Majority of jts @ 20° to 30° with iron staining
230.73	25.43									
230.55	25.61	1.34	N=100/18 1:50/0.12 2:00 3:15 3:00 2:35	(81%) 1.08	(NA)		(94%) 0.60	(NA)		229.81 WEATHERED ROCK: Brown, White, and Grey; Severely Weathered; Medium Hard Biotite Gneiss with Very Close to Close Fracture Spacing
229.21	26.95									
229.17	26.99	0.72	N=50/4 2:00/0.26 3:20	(94%) 0.68	(46%) 0.33		(100%) 2.20	(38%) 0.84		229.13 Minor iron staining of feldspars Majority of jts @ 0° to 10° 2 jts @ 30°
228.45	27.71									
		1.52	1:50/0.15 3:45 3:45 3:50 3:45 3:30	(100%) 1.52	(34%) 0.51					CRYSTALLINE ROCK: White and Dark Grey, Slightly to Moderately Weathered, Moderately Hard Biotite Gneiss with Very Close to Close Fracture Spacing
226.93	29.23									226.93 Isolated iron staining of feldspars Majority of jts @ 20° to 30° parallel to foliation Secondary jts @ 0° to 10° 5 jts @ 35° to 45° 1 jt @ 90° Coring Terminated at Elevation 226.93m in Crystalline Rock: Biotite Gneiss

NCDOT CORE SINGLE 07102019.GPJ NC_DOT.GDT 1/16/03