



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. B1-B LT	BORING LOCATION 39+51.2	OFFSET 5.4m LT	ALIGNMENT -L-
COLLAR ELEV. 257.21 m	NORTHING 223637.80	EASTING 447318.38	0 HR. NM
TOTAL DEPTH 27.81 m	DRILL MACHINE CME 850	DRILL METHOD Wash Rotary/HQ Core	24 HR. 7.32
DATE STARTED 11/25/02	COMPLETED 11/26/02	SURFACE WATER DEPTH NA	HAMMER TYPE 63.5 kg Auto
CORE SIZE HQ	TOTAL RUN 9.64 m	DRILLER R. Toothman	

ELEV. (m)	DEPTH (m)	RUN (m)	DRILL RATE (Min/0.3m)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (m)	RQD (m)		REC. (m)	RQD (m)		
										Begin Coring @ 18.00 m
239.21	18.00	0.73	1:30/0.13	(0%)	(NA)		(6%)	(NA)		239.21 WEATHERED ROCK: White, Black, and Brown; Severely Weathered; Very Soft Biotite Gneiss with Very Close Fracture Spacing 18.00
238.48	18.73		2:00	0.00						
238.35	18.86	1.35	1:00							
			N=100/13	(47%)	(22%)					
			1:25/0.17	0.63	0.30					
			2:35				(96%)	(61%)		237.54 CRYSTALLINE ROCK: White and Black; Moderately to Slightly Weathered; Moderately Hard to Hard Biotite Gneiss with Close Fracture Spacing 19.67
237.00	20.21		3:10				(0.66)	(0.42)		
		0.91	2:00							236.85
			2:00	(13%)	(13%)		(16%)	(NA)		Very broken (very close fracture spacing) 19.81m to 19.89m 20.36
236.09	21.12		2:05	0.12	0.12		(0.18)			3 jts @ 30° with light iron staining
		0.61	3:20							1 jt @ 10° with moderate iron staining
235.48	21.73		3:45	(66%)	(0%)					235.70
			2:30	0.40	0.0		(100%)	(NA)		Note: Run No. 2 shortened to allow retrieval of rock left in hole from Run No. 1 21.51
235.44	21.77	1.48	N=50/4	(100%)	(68%)		(0.28)	(74%)		235.38
			1:50/0.26	1.48	1.01		(100%)	(4.45)		White, Brown, and Black; Very Severely Weathered; Very Soft Biotite Gneiss with Very Close Fracture Spacing [Hard White, Brown, and Black Coarse to Fine SAND with Some Mica (A-2-4)]
			2:50							
233.96	23.25		2:40							
		1.52	2:50	(100%)	(82%)					Note: Core block at 21.12m
			2:15	1.52	1.24					WEATHERED ROCK: White and Black; Severely Weathered; Soft to Medium Hard Biotite Gneiss with Very Close to Close Fracture Spacing
232.44	24.77		2:45							1 jt @ 90°
		1.52	2:30	(100%)	(74%)					3 jts @ 0° to 10°
			2:45	1.52	1.12					
			2:25							Note: Run No. 4 was a continuation of Run No. 3
230.92	26.29		2:05							CRYSTALLINE ROCK: White and Black; Moderately to Slightly Weathered; Medium Hard to Moderately Hard Biotite Gneiss with Close Fracture Spacing
		1.52	2:15	(99%)	(71%)					1 jt @ 60° with moderate iron staining
			2:40	1.50	1.08					1 jt @ 30°
			2:50							5 jts @ 10°
229.40	27.81		2:35							5 jts @ 20° to 30° with light to moderate iron staining
			2:25							2 jts @ 60° to 70° with moderate iron staining
										Very broken (very close fracture spacing) 24.62m to 24.92m
										4 jts @ 40° to 45°
										2 jts @ 20° to 30°
										1 jt @ 45° at 26.02m
										Very broken vertically and horizontally 26.02m to 26.32m
										3 jts @ 30°
										8 jts @ 10° to 20°
										Very broken (very close fracture spacing) 27.68m to 27.74m
										Coring Terminated at Elevation 229.40m in Crystalline Rock: Biotite Gneiss

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