



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

SHEET 1 OF 1

PROJECT NO. 8.2502001		ID. B-3885		COUNTY Orange		GEOLOGIST G. Licayan/D. Goodnight							
SITE DESCRIPTION Bridge No. 174 Over Cane Creek on SR 1958						GROUND WATER (ft)							
BORING NO. B1-A		BORING LOCATION 17+56.0		OFFSET 6.0 ft LT		ALIGNMENT -L-							
COLLAR ELEV. 417.50 ft		NORTHING 792854.42		EASTING 1923514.71		0 HR. 3.00							
TOTAL DEPTH 24.30 ft		DRILL MACHINE CME 55 ATV		DRILL METHOD Wash Rotary/ HQ Core		HAMMER TYPE 140 lb. Manual							
DATE STARTED 7/29/03		COMPLETED 7/30/03		SURFACE WATER DEPTH NA									
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
417.5													417.5 0.00
414.0	3.5												Alluvial: Stiff, Tan and Brown, Coarse to Fine Sandy, Silty CLAY with Gravel and Little Organic Matter (A-6)
411.5	6.0	6	6	6									411.5 6.0
407.9	9.6	20	80/3										407.9 9.6
													Weathered Rock: Tan and Green; Metavolcanic Rock
													Crystalline Rock: Very Slightly Weathered to Fresh, Hard to Very Hard, Green-Gray, Metavolcanic Rock with Moderately Close to Wide Fracture Spacing
398.2	19.3												398.2 19.3
													Coring Terminated at 24.3 feet (Elev. 393.2) in Crystalline Rock (Metavolcanic)
													Drilling Fluid Properties: Water
													Note: Shelby Tube (0.0-2.0 feet) for EFA Testing



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CORE BORING REPORT

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COLLAR ELEV. 417.50 ft		NORTHING 792854.42		EASTING 1923514.71		0 HR. 3.00				
TOTAL DEPTH 24.30 ft		DRILL MACHINE CME 55 ATV		DRILL METHOD Wash Rotary/ HQ Core		HAMMER TYPE 140 lb. Manual				
DATE STARTED 7/29/03		COMPLETED 7/30/03		SURFACE WATER DEPTH NA						
CORE SIZE HQ				TOTAL RUN 17.5 ft		DRILLER W. Whichard				
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 @ 6.8 ft
410.7	6.8	2.5	7:00	(2.0)	(1.5)		(17.0)	(16.5)		410.7 5.8
408.2	9.3		6:00	80%	60%		97%	94%		Crystalline Rock: Very Slightly Weathered to Fresh, Hard to Very Hard, Green-Gray, Metavolcanic Rock with Moderately Close to Wide Fracture Spacing
		5.0	3:00/0.5	(5.0)	(5.0)	RS-1				2 joints at 0-5° 2 joints at 30-40° 1 joint at 60°
			3:30	100%	100%					Core Loss at 6.8-7.3 feet
			3:30							
403.2	14.3		3:45							
		5.0	4:30	(5.0)	(5.0)					
			3:20	100%	100%					
			3:50							
398.2	19.3		4:15							
		5.0	4:40	(5.0)	(5.0)	RS-2				
			3:40	100%	100%					
			4:05							
393.2	24.3		4:15							393.2 24.3
			4:00							Coring Terminated at 24.3 feet (Elev. 393.2) in Crystalline Rock (Metavolcanic)
			5:00							Drilling Fluid Properties: Water
										Note: Shelby Tube (0.0-2.0 feet) for EFA Testing

NCDOT CORE SINGLE 07103020.GPJ NC\_DOT.GDT 9/5/03

NCDOT BORE SINGLE 20.GPJ NC\_DOT.GDT 9/4/03