

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

SHEET 1 OF 1

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	ECT NO				ID. B-3885 Co						ITY C	rang	e		GEOLOGIST G. Licayan/D. Goodnight	
SITE D	DESCRI	PTION	Bridg	e No. 1	74 Ove	r Can	e Cree	k on SF	R 195	58						GROUND WATER (
BORIN	IG NO.	B2-A		В	ORING	LOCA	TION	18+22	2.0		OF	FSET	7.0 f	t LT		ALIGNMENT -L- 0 HR. 4.00
COLLA	AR ELE	V. 421	.60 ft	NOR	THING	7928	391.60			····	EA	STING	19	2346	0.24	
·	DEPTI			DRIL	LMAC	HINE	CME	55 AT\	1.	DRII						rry/HQ Core HAMMER TYPE 140 lb. Mai
	START		31/03	1				D 7/31			7					EPTH NA
	DEPTH		ow co	LINIT	$T^{-1}$	001111		S PER F			30					IFIN NA
(ft)	(ft)	0.5ft	0.5ft	0.5ft	Q P	20	40			80	1	SAI 00 No	.	моі	OG	SOIL AND ROCK DESCRIPTION
421.6						· ·				····	· · · · · · · · · · · · · · · · · · ·		_	-		421.6
419.6	-	9	8	8		16			• •			SS-	10	5.0		Alluvial: Very Stiff, Tan and Brown to Brown and Red, Coarse to Fine Sandy, Silty CLAY with Gravel and Trace of Organic Matter (A-6)
417.1. 414.6	_	3	3	3	. 6	 			• • •			SS-	11 1	8.3		Alluvial: Medium Stiff to Stiff, Brown and Red, Coarse to Fine Sandy, Clayey SILT with
412.1	- 7.0 - - 9.5	1	2	12	\	14								w		Gravel and Little Organic Matter (A-4) 413.1
412.1	- 3.5	7	15	85/.5				 		10	00/1.0				)   	Weathered Rock: Black, Green and Tan, Weathered, Metavolcanic Rock
1	-	·					· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·							Crystalline Rock: Moderately to Moderately Severely Weathered, Medium Hard to Moderately Hard, Tan and Green-Gray, Metavolcanic Rock with Very Close to Close Fracture Spacing
+						· · · · · · · · · · · · · · · · · · ·	· · · ·			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·					Weathered Rock: Severely to Moderately Severely Weathered, Medium Hard to Soft, Tan, Metavolcanic Rock with Very Close to Close Fracture Spacing
+++++++++++++++++++++++++++++++++++++++							· · · · ·				· · · ·				1/4	Crystalline Rock: Moderately to Moderately Severely Weathered, Medium Hard to Moderately Hard, Tan and Green-Gray, Metavolcanic Rock with Very Close to Close Fracture Spacing
388.9	32.7				*. * * * * * * * * * * * * * * * * * *							, RS-5				Crystalline Rock: Slightly to Very Slightly Weathered, Hard to Very Hard, Green-Gray, Metavolcanic Rock with Close to Moderately Close Fracture Spacing
82.8	38.8											RS-6			1	387.1  385.3  Crystalline Rock: Moderately Weathered, Moderately Hard, Green-Gray, Metavolcanic Rock with Very Close Fracture Spacing Crystalline Rock: Very Slightly to Freshly Weathered, Hard to Very Hard, Green-Gray, Metavolcanic Rock with Moderately Close to Wide Fracture Spacing
<u> </u>														K	<u> </u>	Coring Terminated at 42.5 feet (Elev. 379.1) in Crystalline Rock (Metavolcanic)
‡					•										L	Drilling Fluid Properties: Water
‡									٠						<u>.</u>	Note: Shelby Tube (0.0-2.0 feet) for EFA
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‡															F	
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## N.C.D.O.T. GEOTECHNICAL UNIT CORE BORING REPORT

PROJ	ECT NO	0. 8.2	2502001			ID. B-3	3885			C	OUNTY Orange GEOLOGIST G. Licayan/D. Goodnight	
SITE	DESCR	IPTION	N Bridge	No. 1	74 Ove	er Cane C	reek c	n SR	1958		GROUND WATER (f	ft)
BORIN	IG NO.	B2-A	1	В	DRING	LOCATI	ON 1	8+22.	0		OFFSET 7.0 ft LT ALIGNMENT -L- 0 HR. 4.00	,
COLL	AR ELE	<b>V</b> . 42	1.60 ft _	NORT	THING	79289 <sup>-</sup>	1.60				<b>EASTING</b> 1923460.24 <b>24</b> HR. Dry	
TOTAL	DEPT	H 42.	.50 ft	DRILI	MAC	HINE C	ME 55	ATV		RILI	METHOD Wash Rotary/HQ Core HAMMER TYPE 140 lb. Man	านล
DATE	START	ED 7	7/31/03			COMPL	ETED	7/31/0			SURFACE WATER DEPTH NA	
CORE	SIZE	HQ				TOTAL I	RUN	31.5 ft		<b></b>	DRILLER W. Whichard	
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	REC. (ft)	RUN RQD (ff) %	SAMP. NO.	REC. (ft)	RATA RQD (ff) %	L O G		DESCRIPTION AND REMARKS	
410.6 409.1	11.0 12.5		4:00 2:45/0.5 3:00 3:30	(1.3) 87% (4.1) 82%	(0.0) 0% (0.0) 0%		(5.4) 83%	(0.0)		410 - -	Hard to Moderately Hard, Tan and Green-Gray, Metavolcanic Rock with Very Close to Close Fracture Spacing	11.0
404.1	17.5	5.0	4:00 6:30 4:30 1:20	(2.1)	(0.0)		(1.6) 36%	(NA)		404	2 joints at 70-80° 2 joints at 50-60° 1 Numerous joints at Various Angles Very Broken Core Loss at 12.3-12.5 feet; 12.5-13.4 feet	17.5
399.1	22.5	5:0	0:40 0:20 2:40 3:55	(4.8)	(0.0)		(5.3) 87%	(0.0)		- - 399	Weathered Rock: Severely to Moderately Severely Weathered, Medium Hard	22.0
394.1	27.5	5.0	3:30 3:30 2:45 2:00	(4.4)	(2.2)					393.		28.1
389.1	32.5	5.0	3:00 2:30 3:20 4:00 3:50	88%	44%		(6.4) 100%	(4.2) 66%		_	Close to Close Fracture Spacing Numerous joints at Various Angles Very Broken Weathered Rock Zone at 25.5-26.1 feet	
384.1	37.5		4:20 3:45 3:30 3:25	(4.8) 96%	(3.2) 64%	RS-5 /	(1.6) 89% (6.2)	(0.0) 0% (6.2)		387. 385.	Green-Gray, Metavolcanic Rock with Close to Moderately Close Fracture	34.5 36.3
379.1	42.5	5.0	4:10 4:00 3:35		(5.0) 100%	RS-6		100%		070	Several Partially Open High Angle joints 7 joints at 50-60° 2 joints at 80° Crystalline Rock: Moderately Weathered, Moderately Hard, Green-Gray	
.	72.0		3:55 3:50 4:00						-	379.1	Metavolcanic Rock with Very Close Fracture Spacing Numerous joints at Various Angles and Iron Stains on joint Faces Very Broken Core Loss at 36.1-36.3 feet	2.5
											Crystalline Rock: Very Slightly to Freshly Weathered, Hard to Very Hard, Green-Gray, Metavolcanic Rock with Moderately Close to Wide Fracture Spacing 1 ioint at 10°	
									-		Coring Terminated at 42.5 feet (Elev. 379.1) in Crystalline Rock (Metavolcanic)	
			1						F		Drilling Fluid Properties: Water  Note: Shelby Tube (0.0-2.0 feet) for EFA Testing	
											eta. Groby Pass (old 2.10 lody) of 2.17 (Posting	