



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

SHEET 1 OF 1

PROJECT NO. 6.529005T		ID. R-2610A		COUNTY Chatham		GEOLOGIST D. Goodnight									
SITE DESCRIPTION Site 2: Bridge on SBL US 421 (-L-) Over NSRR							GROUND WATER (m)								
BORING NO. B2-B		BORING LOCATION 28+14.0		OFFSET 8.5m LT		ALIGNMENT -L-									
COLLAR ELEV. 89.19 m		NORTHING 201468.51		EASTING 582532.53		0 HR. 4.43									
TOTAL DEPTH 14.22 m		DRILL MACHINE CME 850		DRILL METHOD Wash Drill/HQ Core		HAMMER TYPE 63.5 kg Automatic									
DATE STARTED 11/6/02		COMPLETED 11/8/02		SURFACE WATER DEPTH NA											
ELEV. (m)	DEPTH (m)	BLOW COUNT			BLOWS PER 30 CM					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION			
		15cm	15cm	15cm	0	20	40	60	80				100		
89.19													89.19	0.00	
88.89	0.30	2	3	6							SS-4	28.2%			RESIDUAL: Stiff to Hard Red-Brown and Tan Fine Sandy Silty CLAY with a Trace of Organic Matter (Rootlets)
88.12	1.07	5	8	14											
87.36	1.83	16	16	16											
86.80	2.59	8	21	29											
85.07	4.12	50/4													WEATHERED ROCK: Red-Brown Weathered Triassic Mudstone
84.13	5.06	50/6													Reddish Brown, Severely Weathered, Very Soft to Soft, Friable to Moderately Indurated Triassic Mudstone with Very Close to Close Fracture Spacing
82.83	6.56	40	60/1								RS-2				NON-CRYSTALLINE ROCK: Reddish Brown, Moderately Weathered, Moderately Hard, Indurated Triassic Siltstone with Very Close to Close Fracture Spacing
81.11	8.08	100/14													Reddish Brown, Severely Weathered, Medium Hard to Soft, Moderately Indurated Triassic Mudstone with Close to Moderately Close Fracture Spacing
79.59	9.80	100/15													Reddish Brown, Severely Weathered, Very Soft to Soft, Friable Triassic Mudstone with Very Close to Close Fracture Spacing
78.15	11.04	100/10													Reddish Brown, Severely Weathered, Soft to Medium Hard, Moderately Indurated Triassic Mudstone with Close to Moderately Close Fracture Spacing
76.83	12.56	38	62/9												Reddish Brown, Severely Weathered, Soft to Medium Hard, Moderately Indurated Triassic Mudstone with Close to Moderately Close Fracture Spacing
75.12	14.07	100/15													WEATHERED ROCK: Reddish Brown Weathered Triassic Mudstone Boring Terminated at Elevation 74.97m in Weathered Rock (Triassic Mudstone)

NCDOT BORE SINGLE 07102018.GPJ NC DOT.GDT 11/20/02



N.C.D.O.T. GEOTECHNICAL UNIT  
CORE BORING REPORT

SHEET 1 OF 1

PROJECT NO. 6.529005T		ID. R-2610A		COUNTY Chatham		GEOLOGIST D. Goodnight				
SITE DESCRIPTION Site 2: Bridge on SBL US 421 (-L-) Over NSRR							GROUND WATER (m)			
BORING NO. B2-B		BORING LOCATION 28+14.0		OFFSET 8.5m LT		ALIGNMENT -L-				
COLLAR ELEV. 89.19 m		NORTHING 201468.51		EASTING 582532.53		0 HR. 4.43				
TOTAL DEPTH 14.22 m		DRILL MACHINE CME 850		DRILL METHOD Wash Drill/HQ Core		HAMMER TYPE 63.5 kg Automatic				
DATE STARTED 11/6/02		COMPLETED 11/8/02		SURFACE WATER DEPTH NA						
CORE SIZE HQ		TOTAL RUN 9.06 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 @ 4.16 m
85.03	4.16	0.90	6:23 6:14 14:27	(94% 0.85)	(NA)		(95% 0.93)	(NA)		85.03 Reddish Brown, Severely Weathered, Very Soft to Soft, Friable to Moderately Indurated Triassic Mudstone with Very Close to Close Fracture Spacing
84.13	5.06									84.13 Majority of jts @ 10° to 20° 2 jts @ 45° and 1 jt @ 80°
84.07	5.12	0.54	N=50/6 13:54/0.24 19:33	(100% 0.54)	(56% 0.30)		(100% 1.16)	(73% 0.85)		83.99 NCR: Reddish Brown, Moderately Weathered, Moderately Hard, Indurated Triassic Siltstone with Very Close to Close Fracture Spacing
83.53	5.66	0.90	4:29 5:24 5:07	(100% 0.90)	(61% 0.55)					82.83 jts @ 0° to 10° with some clay infilling
82.63	6.56						(97% 2.83)	(NA)		Note: Core Block @ 5.66m 82.63 Reddish Brown, Severely Weathered, Medium Hard to Soft, Moderately Indurated Triassic Mudstone with Close to Moderately Close Fracture Spacing
82.47	6.72	1.36	N=100/16 5:05/0.14 4:21 4:32 4:13 4:16	(96% 1.30)	(NA)					81.11 Note: Core Block @ 6.56m 81.11 Reddish Brown, Severely Weathered, Medium Hard to Soft, Moderately Indurated Triassic Mudstone with Close to Moderately Close Fracture Spacing
81.11	8.08									80.97 Majority of jts @ 0° to 10° with some clay in filling 3 jts @ 30° and 1 jt @ 70° Friable with very close fracture spacing 9.07m 9.33m
80.97	8.22	1.38	N=100/14 2:13/0.15 4:20 4:18 4:24 4:21	(96% 1.33)	(NA)					Note: Core Block @ 6.56m
79.59	9.60									79.45 Reddish Brown, Severely Weathered, Very Soft to Soft, Friable Triassic Mudstone with Very Close to Close Fracture Spacing
79.44	9.75	1.28	N=100/15 3:51/0.15 6:44 7:40 6:51	(94% 1.20)	(NA)		(89% 0.70)	(NA)		78.66 jts @ 10° to 20° 78.66 Reddish Brown, Severely Weathered, Soft to Medium Hard, Moderately Indurated Triassic Mudstone with Close to Moderately Close Fracture Spacing
78.16	11.03						(95% 3.05)	(NA)		Majority of jts @ 0° to 10° 1 jt @ 30° 2 jts @ 90° Hard and slightly weathered 13.45m to 13.59m
78.06	11.13	1.42	6:00/0.22 N=100/10 5:40/0.20 7:38 7:36 7:06 12:49	(89% 1.27)	(NA)					Note: Core Block @ 11.03m
76.64	12.55									75.12 Coring Terminated at Elevation 75.12m in Severely Weathered Triassic Mudstone
76.40	12.79	1.28	N=100/24 2:17/0.06 7:56 7:03 6:45 12:05 N=100/15	(100% 1.28)	(NA)					74.97 WEATHERED ROCK: Reddish Brown Weathered Triassic Mudstone Boring Terminated at Elevation 74.97m in Weathered Rock (Triassic Mudstone)
75.12	14.07									
74.97	14.22									

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