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-A	BORING LOCATION 28+22.3	OFFSET 15.3m LT	ALIGNMENT -L-	0 HR. 3.96
COLLAR ELEV. 89.12 m	NORTHING 201471.92	EASTING 582522.43	24 HR. 4.50
TOTAL DEPTH 12.71 m	DRILL MACHINE CME 850	DRILL METHOD Wash Drill/HQ Core	HAMMER TYPE 63.5 kg Automatic
DATE STARTED 11/4/02	COMPLETED 11/6/02	SURFACE WATER DEPTH NA	

ELEV. (m)	DEPTH (m)	BLOW COUNT 15cm	15cm	15cm	BLOWS PER 30 CM (0 20 40 60 80 100)	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
89.12									
88.82	0.30								89.12 — 0.00 RESIDUAL: Medium Stiff to Very Stiff Tan Silty CLAY with a Trace of Organic Matter (Rootlets) and with a Trace of Sand
		2	3	4	7		M		
88.05	1.07								
		6	9	10	19	SS-3	24.6%		87.52 — 1.60 WEATHERED ROCK: Red-Brown Weathered Triassic Mudstone
87.29	1.83								
		24	33	67	100/30				
86.53	2.59								86.42 — 2.70 Reddish Brown, Severely Weathered, Medium Hard to Soft, Moderately Indurated Triassic Mudstone with Very Close to Close Fracture Spacing
		100/9			100/9				
84.00	5.12								
		50/5			50/5				
80.96	8.16								81.72 — 7.40 Reddish Brown, Very Severely Weathered, Very Soft Friable Triassic Mudstone with Very Close Fracture Spacing [Hard, Red-Brown, Clayey Fine Sandy SILT (A-4)]
		9	21	54	75		M		80.51 — 8.61
79.59	9.53						M		80.11 — 9.01 Reddish Brown, Severely Weathered, Soft, Moderately Indurated Triassic Mudstone with Close Fracture Spacing; 79.81 — 9.31 Reddish Brown, Very Severely Weathered, Very Soft, Friable Triassic Mudstone with Very Close Fracture Spacing [Hard Reddish Brown Clayey Fine Sandy SILT (A-4)]
		100/14			100/14				
78.07	11.05								
		100/9			100/9				77.97 — 11.15 Reddish Brown, Severely Weathered, Very Soft to Soft, Moderately Indurated Triassic Mudstone with Very Close to Close Fracture Spacing
76.54	12.58								76.80 — 12.32 Reddish Brown, Severely Weathered, Medium Hard to Soft, Moderately Indurated Triassic Mudstone with Close to Moderately Close Fracture Spacing; 76.54 — 12.58; 76.41 — 12.71
		100/13			100/13				Reddish Brown, Severely Weathered, Soft, Friable Triassic Mudstone with Very Close Fracture Spacing; WEATHERED ROCK: Reddish Brown Weathered Triassic Mudstone; Boring Terminated at Elevation 76.41m 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-A	BORING LOCATION 28+22.3	OFFSET 15.3m LT	ALIGNMENT -L-	0 HR. 3.96
COLLAR ELEV. 89.12 m	NORTHING 201471.92	EASTING 582522.43	24 HR. 4.50
TOTAL DEPTH 12.71 m	DRILL MACHINE CME 850	DRILL METHOD Wash Drill/HQ Core	HAMMER TYPE 63.5 kg Automatic
DATE STARTED 11/4/02	COMPLETED 11/6/02	SURFACE WATER DEPTH NA	
CORE SIZE HQ	TOTAL RUN 9.15 m	DRILLER R. Toothman	

ELEV. (m)	DEPTH (m)	RUN (m)	DRILL RATE (Min/0.3m)	RUN REC. (m) %	RUN RQD (m) %	SAMP. NO.	STRATA REC. (m) %	STRATA RQD (m) %	LOG	DESCRIPTION AND REMARKS
										Begin Coring @ 2.70 m
86.42	2.70	0.90	4:56 3:37 3:55	(100% 0.90)	(NA)		(99% 4.61)	(NA)		86.42 — 2.70 Reddish Brown, Severely Weathered, Medium Hard to Soft, Moderately Indurated Triassic Mudstone with Very Close to Close Fracture Spacing; Majority of jts @ 0° to 10°; 1 jt @ 70°; 6 jts @ 30°
85.52	3.60									
		1.52	3:04 2:46 2:31 3:25 2:42	(97% 1.48)	(NA)					
84.00	5.12									
83.95	5.17	1.47	N=50/5 4:04/0.25 4:32 4:41 4:04 5:52	(100% 1.47)	(NA)					
82.48	6.64									
		1.52	7:04 7:44 6:25 7:36 7:57	(95% 1.44)	(NA)					81.72 — 7.40
80.96	8.16						(89% 0.68)	(NA)		Reddish Brown, Very Severely Weathered, Very Soft Friable Triassic Mudstone with Very Close Fracture Spacing [Hard, Red-Brown, Clayey Fine Sandy SILT (A-4)]
			N=75							80.51 — 8.61
80.51	8.61	0.93	3:13/0.02 8:06 6:33 7:58	(100% 0.93)	(NA)		(100% 0.40)	(NA)		80.11 — 9.01 Reddish Brown, Severely Weathered, Soft, Moderately Indurated Triassic Mudstone with Close Fracture Spacing
79.58	9.54						(100% 0.30)	(NA)		79.81 — 9.31 1 jt @ 20°
			N=100/14							Reddish Brown, Very Severely Weathered, Very Soft, Friable Triassic Mudstone with Very Close Fracture Spacing [Hard Reddish Brown Clayey Fine Sandy SILT (A-4)]
79.44	9.68	1.38	3:25/0.16 5:42 8:37 7:58 13:44	(80% 1.10)	(NA)		(83% 1.33)			Reddish Brown, Severely Weathered, Very Soft to Soft, Moderately Indurated Triassic Mudstone with Very Close to Close Fracture Spacing
78.06	11.06									77.97 — 11.15
			N=100/9							Majority of jts @ 0° to 10°; Isolated high angle fractures
77.97	11.15	1.43	5:01/0.21 8:32 9:25 8:24 10:48	(82% 1.17)	(NA)		(100% 1.17)	(NA)		76.80 — 12.32 Note: Core Block at 9.54m
76.54	12.58									76.54 — 12.58; 76.41 — 12.71 Reddish Brown, Severely Weathered, Medium Hard to Soft, Moderately Indurated Triassic Mudstone with Close to Moderately Close Fracture Spacing; 2 jts @ 30°
76.41	12.71		N=100/13				(0% 0.00)	(NA)		Reddish Brown, Severely Weathered, Soft, Friable Triassic Mudstone with Very Close Fracture Spacing; Coring Terminated at Elevation 76.54m in Severely Weathered Triassic Mudstone; WEATHERED ROCK: Reddish Brown Weathered Triassic Mudstone; Boring Terminated at Elevation 76.41m in Weathered Rock (Triassic Mudstone)

NCDOT CORE SINGLE 07102018.GPJ NC_DOT.GDT 11/20/02