MACTEC

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

SHEET 1 OF 1

PROJECT NO. 6.529005T	**ID.** R-2610B(1)	**COUNTY** Chatham	**GEOLOGIST** B. Deobald
SITE DESCRIPTION Bridge on SBL US 421(-L-) over Bear Creek (MACTEC Proj. No. 6468-03-0124)			**GROUND WATER (m)**
BORING NO. B1-B	**BORING LOCATION** 22+68.6	**OFFSET** 6.9m LT	**ALIGNMENT** -L-	**0 HR.** 0.40
COLLAR ELEV. 115.89 m	**NORTHING** 206,651.5	**EASTING** 578,441.1		**24 HR.** 0.90
TOTAL DEPTH 9.57 m	**DRILL MACHINE** D-50	**DRILL METHOD** Rotary Wash/Core	**HAMMER TYPE** 63.5kg Manual	
DATE STARTED 4/2/03	**COMPLETED** 4/3/03	**SURFACE WATER DEPTH** N/A		

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
115.89					Ground Surface				115.89 0.00
115.89	0.00	2	4	3	7		M		Residual: Brown, f. to cse. sandy, clayey SILT (A-4) w/ META-ARGILLITE rock fragments
114.57	1.32								
		1	2	14	16	SS-3	24.7%		114.10 1.79 Weathered Rock: META-ARGILLITE
113.39	2.50								113.32 2.57
		50/7cm			50/7cm				Crystalline Rock: Gray, v. slightly weathered to fresh, v. closely to mod. closely fractured, hard META-ARGILLITE (1 joint at 90°; 10 joints at 45-50° w/ Fe stain)
									110.90 4.99 Crystalline Rock: Gray, fresh, widely fractured, hard META-ARGILLITE
						RS-1			RS-1: Sampled from 6.22m to 6.51m
									108.78 7.11 Crystalline Rock: Gray, fresh, v. closely to mod. closely fractured, hard META-ARGILLITE
									107.52 8.37 Crystalline Rock: Gray, fresh, widely fractured, hard META-ARGILLITE
									106.32 9.57 Boring and Coring Terminated at 9.57m (Elev. 106.32m) in Crystalline Rock: META-ARGILLITE

Bits Used: 9cm roller cone and HQ (Series 6) core bit

Drilling Fluid Properties: Water

NCDOT BORE_...E BEARCREEK.GPJ NC_DOT.GDT 5/2/03

MACTEC

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

SHEET 1 OF 1

PROJECT NO. 6.529005T	**ID.** R-2610B(1)	**COUNTY** Chatham	**GEOLOGIST** B. Deobald
SITE DESCRIPTION Bridge on SBL US 421(-L-) over Bear Creek (MACTEC Proj. No. 6468-03-0124)			**GROUND WATER (m)**
BORING NO. B1-B	**BORING LOCATION** 22+68.6	**OFFSET** 6.9m LT	**ALIGNMENT** -L-	**0 HR.** 0.40
COLLAR ELEV. 115.89 m	**NORTHING** 206,651.5	**EASTING** 578,441.1		**24 HR.** 0.90
TOTAL DEPTH 9.57 m	**DRILL MACHINE** D-50	**DRILL METHOD** Rotary Wash/Core	**HAMMER TYPE** 63.5kg Manual	
DATE STARTED 4/2/03	**COMPLETED** 4/3/03	**SURFACE WATER DEPTH** N/A		
CORE SIZE HQ	**TOTAL RUN** 7.71 m	**DRILLER** D. Rhodes		

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 @ 1.79 m
114.10	1.79	0.71	0:10	(0.00)	(N/A)		(0.00)	(N/A)		114.10 1.79 Weathered Rock: META-ARGILLITE
113.39	2.50		0:10	0%			0%			113.32 2.57
113.32	2.57	0.98	0:05/0.11	(0.98)	(0.00)		(2.42)	(0.60)		Crystalline Rock: Gray, v. slightly weathered to fresh, v. closely to mod. closely fractured, hard META-ARGILLITE (1 joint at 90°; 10 joints at 45-50° w/ Fe stain)
			N=50/7cm	100%	0%		100%	25%		
112.34	3.55		3:00							
		1.44	2:45	(1.44)	(0.60)					
			2:45	100%	42%					
			1:00/0.08							
110.90	4.99		2:40							110.90 4.99
			2:45							Crystalline Rock: Gray, fresh, widely fractured, hard META-ARGILLITE
		1.52	2:50	(1.52)	(1.52)		(2.12)	(2.12)		
			3:30	100%	100%		100%	100%		
			3:30/0.24							
			1:35							
109.38	6.51		1:30			RS-1				RS-1: Sampled from 6.22m to 6.51m
			1:30							
			2:00							
		1.23	2:00/0.32	(1.23)	(0.60)					108.78 7.11
			2:15	100%	49%					Crystalline Rock: Gray, fresh, v. closely to mod. closely fractured, hard META-ARGILLITE
			2:30							
			2:30							
108.15	7.74		2:30/0.33				(1.26)	(0.35)		
							100%	28%		
		0.63	2:30	(0.63)	(0.35)					107.52 8.37
			2:30	100%	56%					Crystalline Rock: Gray, fresh, widely fractured, hard META-ARGILLITE
107.52	8.37									
		1.20	0:30/0.03	(1.20)	(1.04)		(1.20)	(1.04)		
			7:00	100%	87%		100%	87%		
			3:00							
			5:30							
106.32	9.57		11:00							106.32 9.57
										Coring Terminated at 9.57m (Elev. 106.32m) in Crystalline Rock: Fresh, widely fractured, hard META-ARGILLITE

NCDOT CORE SINGLE_BEARCREEK.GPJ NC_DOT.GDT 5/2/03