



[illegible]



 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL						Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2			Borehole Number RC1211	
Machine: Flush : Core Dia: mm Method :		Casing Diameter 140mm cased to 9.00m		Ground Level (mOD) 139.40		Client Highways Agency		Job Number WAL060099		
		Location 445143 E 362476 N		Dates 20/10/2006- 24/10/2006		Engineer Arup		Sheet 2/3		
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
11.50 11.50-11.74	100	73	7	0			(1.50)	Completely weathered MUDSTONE, recovered as soft to firm becoming firm to stiff orange brown mottled grey (locally slightly sandy) CLAY with occasional purple brown organic debris.		
12.30	97	76	39	0	25/17,21,12 SPT 25'/75 50/166 P1	127.90	11.50	Generally weak (variably very weak) grey thinly laminated MUDSTONE thinly to medium interbedded with weak to moderately weak grey SILTSTONE. Fractures: subhorizontal (10 degrees to 25 degrees), very closely to medium spaced, smooth, planar and undulating, tight to open, occasionally with soft grey clay infill up to 4mm; vertical (80 degrees to 90 degrees), smooth, undulating, moderately open.		
13.00 13.00-13.22					25/20,30 SPT 25'/75 50/142 P2		(4.40)			
13.50	100	83	28	0						
14.45 14.50					P3					
15.50			0	0	P4					
15.90 16.00	100	88	79	0		123.50	15.90	Moderately weak (variably moderately strong) dark thinly colour laminated light grey fine grained SANDSTONE locally with frequent very thin black speckling. Fractures: horizontal (5 degrees to 10 degrees), closely to medium spaced, smooth, planar; subvertical (50 degrees to 60 degrees), rough, planar.		
16.60			0	0	P5		(1.10)			
17.00						122.40	17.00	Generally moderately weak (variably weak and moderately strong) dark grey SILTSTONE with frequent partially decomposed organic debris. Thinly to medium interbedded with weak to moderately weak thinly laminated dark grey mudstone. Fractures: horizontal (0 degrees to 15 degrees), very closely and closely spaced, smooth, planar and undulating; vertical, smooth, undulating to irregular; others random, irregular.		
17.40 17.50 17.50-17.64 17.75	100	60	30	0	P6 25/50 SPT 25'/75 50/64		(2.00)			
18.75	100	95	45	0	P7					
19.00						120.40	19.00	Generally moderately weak (variably moderately strong) light and dark grey thinly colour and cross colour laminated SILTSTONE thinly to medium interbedded with moderately strong light grey fine grained sandstone with thin wispy black interlaminae. Fractures: subhorizontal (15 degrees to 30 degrees), closely spaced, smooth, planar; subvertical to vertical (60 degrees to 85 degrees), smooth, planar and		
19.60-19.90					U8					
Remarks								Scale (approx) 1:50	Logged By TL	
								Figure No.		

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Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
21.40 21.50	100	95	55	0	23/10/2006:18.12m 23/10/2006: 23/10/2006:DRY 24/10/2006: P9			undulating, moderately open; occasionally others, irregular, apparently random strike.	XXXXXXXXXX XXXXXXXXXX		