





British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL							Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI-CONTRACT 2		Borehole Number RC1207		
Boring Method Cable Percussion		Casing Diameter 140mm cased to 15.00m			Ground Level (mOD) 178.75		Client Highways Agency			Job Number WAL060099	
		Location 444939 E 361236 N			Dates 19/09/2006		Engineer Arup			Sheet 1/2	
Depth (m)	Sample / Tests		Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
1.50			0	0		177.55	(1.20)	Inspection Pit.			
	TCR	SCR	RQD	FI			1.20 (0.30)	Open Hole.			
			0	0			1.50 (0.25)	Completely weathered SILTSTONE. Recovered as soft to stiff light grey mottled orange brown extremely closely fissured silt/clay with occasional very thin interbeds of weak brown weathered siltstone.			
							1.75				
1.75			0	0	P1	175.25	(1.75)	Very weak to weak light grey thinly and thickly laminated At 2.20m; rounded weak ironstone nodule (55mm). weathered SILTSTONE. Frequent orange brown			
2.55			0	0			Between 2.55m and 3.15m; non-intact, discolouration. Horizontal fractures, where evident, extremely closely to very closely spaced (8/20/60), smooth, planar. Vertical fractures smooth, planar, open with heavy dark brown discolouration. Other fractures irregular and random.				
3.20			0	0			Between 3.20m and 3.35m; recovered as firm gravelly silt/clay.				
3.35			0	0							
3.50					P2	173.15	(2.10)	Weak light grey (variably dark grey colour-laminated) thinly and thickly laminated SILTSTONE. Green brown discolouration throughout, occasional red orange discolouration on fracture surfaces. Fractures: horizontal, very closely and closely spaced, smooth planar to irregular; vertical (80 degrees), smooth and planar.			
3.90			0	0							
5.35							5.60	Moderately weak and moderately strong light and dark grey thinly colour laminated fine grained SANDSTONE. Light orange brown discolouration throughout. Fracturing: horizontal (0 to 10 degrees), very closely to medium spaced, smooth, planar and undulating, open; vertical (80 degrees), smooth, planar and open.			
5.60	92	90	55	0							
5.95-6.34					C3	171.10	(2.05)	Between 7.35m and 7.50m; cross colour lamination.			
5.95	100	65	0	0			Generally weak (variably very weak and moderately weak) thinly and thickly laminated blue grey MUDSTONE with widely spaced very thin beds of strong brown ironstone. Fractures: horizontal (0 to 20 degrees), extremely closely to closely spaced, smooth, planar; others subvertical and vertical, irregular and random.				
7.45			0	0			At 8.65m; very thin bed of ironstone.				
7.65							At 9.50m; very thin bed of ironstone.				
8.45	93	71	0	0	P4		(2.65)				
8.95			0	0							
Remarks										Scale (approx) 1:50	Logged By TL
										Figure No.	



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Machine: Flush : Core Dia: mm Method :		Casing Diameter 140mm cased to 15.00m		Ground Level (mOD) 178.75		Client Highways Agency		Job Number WAL060099		
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Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.30					P5	168.45	(2.65) 10.30	Very weak and weak dark grey black thinly and thickly laminated carbonaceous MUDSTONE with occasional widely spaced very thin beds of moderately strong grey Between 10.75m and 11.00m; medium bed of strong dark grey black dolomite with frequent narrow shelly lenses. brown ironstone. Fractures: horizontal (0 to 15 degrees). At 11.20m: very thin bed of ironstone, extremely closely to closely spaced, smooth, planar, incipient to open; vertical, smooth, planar and open. At 11.65m; very thin bed of ironstone.		▼1
10.30	95	76	13	0	Water strike(1) at 10.45m, no rise after 20 mins. W10					
10.45			0	0						
10.45			0	0	P6					
10.75										
10.85										
11.00	100	88	0	0						
11.95										
12.70	95	95	0	0	P7		(4.70)			
13.50	Sample / Tests		Casing Depth (m)	Water Depth (m)						
13.75	P8									
14.45	P9									
19/09/2006:10.45m						163.75	15.00	Complete at 15.00m		
19/09/2006:										
Remarks										
								Scale (approx) 1:50	Logged By TL	
								Figure No.		