




British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL							Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2		Borehole Number <b>RC1234</b>	
Machine: Flush : Core Dia: mm Method :		Casing Diameter 140mm cased to 4.00m		Ground Level (mOD) 88.45		Client Highways Agency		Job Number WAL060099		
		Location 444665 E 370322 N		Dates 10/11/2006- 13/11/2006		Engineer Arup		Sheet 1/2		
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00	PIT		0	0	Groundwater was not apparent during boring(1) at 0.00m.			MADE GROUND. Soft to firm dark grey brown slightly sandy very gravelly clay. Gravel is angular to subangular fine to coarse of sandstone and mudstone.		√1
0.50	O/H		0	0	B		(1.20)			
1.20	87	0	0	0		87.25	1.20 (0.30)	Open Hole.		
1.50						86.95	1.50	MADE GROUND. Firm to stiff light grey mottled yellow brown slightly gravelly (locally gravelly) clay. Gravel is angular to subangular fine to coarse of mudstone and sandstone with occasional mudstone cobbles.		
3.00-3.45					3.7/5,6,5,6 SPT N=22					
3.00					D6	85.45	3.00	Very poor recovery. Recovered as firm to stiff grey clay with fragments of mudstone and sandstone. Possible		
3.00	13	0	0	0						
4.50					3.2/4,5,5,7 SPT N=21 10/11/2006:DRY					
4.50-4.95					10/11/2006: 10/11/2006: 13/11/2006:		(4.70)			
6.00-6.45					1.2/3,4,5,6 SPT N=18					
6.00					D7					
6.00	93	45	0	0						
7.50-7.95					1/2,4,5,5 SPT N=16					
7.50			0	0		80.75	7.70	Very weak to weak thinly laminated black carbonaceous MUDSTONE with occasional thin interlaminae of weak black coal. Fractures: horizontal, very closely spaced, smooth, planar; others irregular, random.		
7.50			0	0	D8		(0.80)	Below 8.30m; light grey mudstone. Seat earth.		
7.70										
9.00					D9	79.95	8.50	Generally weak (variably very weak to weak) thinly and thickly laminated grey MUDSTONE with rare black carbonised fossil plant remains. Weathering: occasional orange brown surface discolouration. Fractures: horizontal (0 degrees to 10 degrees), closely spaced, smooth, planar, tight to open, occasionally with soft grey clay infill up to 4mm; others generally subvertical, frequently random and irregular.		
8.50	91	60	18	0	P1 25/36,14 SPT 25'/75 50/85					
8.75										
9.00-9.16										
9.00										
10.00	92	71	49	0	P2		(2.20)			
Remarks								Scale (approx) 1:50	Logged By TL	
								Figure No.		



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<b>Machine:</b> <b>Flush :</b> <b>Core Dia: mm</b> <b>Method :</b>		<b>Casing Diameter</b> 140mm cased to 4.00m		<b>Ground Level (mOD)</b> 88.45		<b>Client</b> Highways Agency		<b>Job Number</b> WAL060099		
		<b>Location</b> 444665 E 370322 N		<b>Dates</b> 10/11/2006- 13/11/2006		<b>Engineer</b> Arup		<b>Sheet</b> 2/2		
<b>Depth (m)</b>	<b>TCR</b>	<b>SCR</b>	<b>RQD</b>	<b>FI</b>	<b>Field Records</b>	<b>Level (mOD)</b>	<b>Depth (m) (Thickness)</b>	<b>Description</b>	<b>Legend</b>	<b>Water</b>
10.50 10.50-10.60 10.70 10.50			0	0	25/50 SPT 25'/75 50/25 D10	77.75	(2.20) 10.70	MUDSTONE (as previous sheet)  Generally moderately weak (variably moderately strong) light to dark grey thinly laminated MUDSTONE with rare very thin beds of moderately weak light grey fine grained sandstone and siltstone. With frequent black speckling on fracture surfaces. Fractures: horizontal, very closely to closely spaced, smooth, planar occasionally stepped; others vertical, apparently random strike.		
11.20	97	61	21	0	P3					
12.00 12.00-12.09 12.00					25/50 SPT 25'/75 50/19 D11		(3.20)	At 12.25m; very thin bed of moderately weak sandstone.		
13.30 13.50			0	0	P4					
13.90			0	0		74.55	13.90	Moderately strong to strong light grey and black thinly colour laminated SILTSTONE. Fractures: horizontal, very closely and closely spaced, smooth, undulating, open.	xxxxxx	
14.30			0	0	P5	74.00	14.45 (0.20)	Weak brittle black COAL thickly interlaminated with weak black carbonaceous mudstone. Fractures: horizontal, very closely spaced, smooth, planar, tight.	xxxxxx	
14.45 14.65			0	0		73.80	14.65 (0.35)	Very weak to weak thinly laminated light grey MUDSTONE.	xxxxxx	
					13/11/2006: 13/11/2006:	73.45	15.00	Complete at 15.00m		
<b>Remarks</b>						<b>Scale (approx)</b> 1:50		<b>Logged By</b> TL		<b>Figure No.</b>