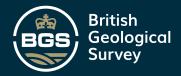


	British Geologic	al Surve	Ey	SIL,		Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Boreh Number			
Machine: Casing Diameter Flush : 140mm cased to 17.50m					Ground Level (mOD 122.65		Client Highways Agency	Job Number WAL060099		
Core Dia: mm Method :			Locati		357882 N	Dates 26/09/2006- 16/10/2006		Engineer Arup		
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.	((1.20)	Inspection Pit.		∇1
1.20					-	121.45	5. 1.20 5. 1.20 5. 1.20	Open Hole.		
			0	5)				(BGS)		
5)						(¿				0
			(5)	55)				(BGS)		
5)						(e				
Remarks			(8)	35)			<u> </u>	Scale (appro	SM	-d



(444)	British Geologic ATURAL ENVIR			ıı			Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI - CONTRACT 2	Borehole Number RC1194		
Machine: Casi				Casing Diameter 140mm cased to 17.50m			Level (mOD) 122.65	Client Highways Agency	Job Number	
Core Dia: m		Locatio			Dates		Engineer	WAL06009 Sheet		
Method :				357882 N	26/09/2006- 16/10/2006		Arup	2/4		
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend &	
5)	37	0	0	o				Open hole (as previous sheet)		
			(di	56)						
			(pl	36)				(BGS)		
9.00	93	93	53	0	26/09/2006: 26/09/2006: 26/09/2006: 10/10/2006:	103.68	19.00	Poor recovery. Recovered as approximately 0.40m of mottled grey clay with sand and subangular fine and mediur gravel sized fragments of mudstone. With 0.15m of weak thinly laminated black coal with some extremely closely spaced thin laminae of dark grey mudstone.	n	
Remarks							<u>-</u>	Scala	Lonned	
								Scale (approx		
								1:50	SM	



British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL								Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borehole Number RC1194	
					er sed to 17.50m	Ground Level (mOD) 122.65		Client Highways Agency	Job Number WAL06009	
Core Dia: mr Method :		Locatio		357882 N	Dates 26/09/2006- 16/10/2006		Engineer Arup	Sheet 3/4		
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness	Description	Legend to the	
5)							(1.50)			
20.50 20.50-20.80	90	72	42	0	12,13/24,33 SPT 57/150	102.15	20.50	Weak thinly laminated grey MUDSTONE with closely to At 20.50m; poor recovery possibly due to SPT. medium spaced thin beds of moderately weak thinly laminated light grey SILTSTONE with occasional coarse Between 21.00m and 21.15m; with closely spaced thin laminae of coal. ironstone gravel. Fractures are generally subhorizontal,		
21.60					P1 18.25/50		<u>-</u> - - - -	closely spaced, tight, undulating and smooth. At 21.70m; 20mm band of weak black coal. Between 21.72m and 21.77m; very closely spaced		
22.00	100	100	49	0	10/10/2006: 10/10/2006: SPT 50/22 10/10/2006:			horizontal fractures infilled up to 4mm with soft grey clay. At 22.00m; poor recovery, possibly due to SPT.		
23.00					11/10/2006: 11/10/2006: 11/10/2006: 11/10/2006:		(6.05)	Between 23.00m and 24.50m; predominantly thin to medium beds of siltstone.		
23.30	86	86	40	0	12/10/2006: U2					
24.50 24.50-24.65	80	80	60	0	25/58 SPT 25*/75 58/75	K				
25.20							-	From 25.20m to 25.60m; possible zone of core loss.		
			0	0			- - - - - - - - - -			
26.35 26.70	100	100	36	0	25/50	96.10	26.55	Moderately weak thinly to thickly laminated dark grey At 26.70m; fracturing probably due to SPT, carbonaceous MUDSTONE. Fractures are horizontal, very		
26.70-26.85 27.05	100	100	73	0	SPT 25*/75 50/73 P3		(1.05)	closely to closely spaced, generally open, planar and smoot	h	
						95.05 94.90		generally tight, planar and smooth.		
28,20 28.65			0	0	P4		(2,35)	Moderately weak laminated to very thinly bedded light grey MUDSTONE with occasional coarse ironstone gravel. With rare carbonised plant remains. Fractures are subhorizontal closely to medium spaced, generally open, planar and smooth. Occasionally infilled up to 3mm with soft grey clay.		
29.20	100	100	63	0	12/10/2006:21.10m		- - - - - - -			
29.70					12/10/2006:23.60m 13/10/2006:		<u>=</u>			
Remarks								Scale (approx 1:50 Figure	SM	



(454)	British Geologic			ı		Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borehole Number RC1194			
Machine: Flush :				Diamete Omm cas	er sed to 17.50m	Ground Level (mOD) 122.65		Client Highways Agency		er 0099
Core Dia: m		Locatio		857882 N	Dates 26/09/2006- 16/10/2006		Engineer Arup			
Depth (m)	TCR SCR RQD		FI Field Records		Level Depth (mOD) (Thickness		Description	Legend	Water	
30.30-30.60	97	97	70	0	U5	92.55	(0.05)	_		
31.20 31.65-31.95 32.20-32.65	100	90	70	0	U6 U7		(4.30)			
32.70	100	100	100	0	13/10/2006:25.30m 13/10/2006: 13/10/2006:23.70m 16/10/2006:					
34.20	Sample	/ Tests	Casing Depth (m)	Water Depth (m)		88.25	34.40	Below 34.20m; cross laminated.	******	
34.20	P8			350)	16/10/2006: 16/10/2006: 16/10/2006:22.90m			Complete at 34.40m		
									K	
Remarks			B	36)				Scale (approx) 1:50 Figure	SM	