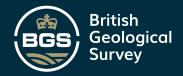


	British Geologica		-	IL.				Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borehole Number RC1192	
Machine: Flush : Core Dia:	mm			Diamete	ased to 1.30m 115.40			Client Highways Agency	Job Number WAL060099	
Method :			Locatio		857423 N	Dates 09/11/2006- 10/11/2006		Engineer Arup	Sheet 1/3	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Nate	
0.00 0.20 0.50	72	0	0	0	C201 C202 C203	(&	(1.20)	Brown gravelly slightly sandy gravelly CLAY with occasional rootlets. Gravel is angular to subangular of sandstone and mudstone.	Į.	
1.20	37	0	0	0	2577 44 49 24	114.20 113.78 113.60	(0.42) 1.62 (0.18)	No recovery. Recovered as soft grey gravelly CLAY. Gravel is angular to subangular medium to coarse of mudstone and ironstone. Stiff to very stiff extremely closely fissured orange brown mottled grey slightly gravelly CLAY. Gravel is angular fine to coarse of siltstone.		
2.70-3.08 2.70 2.70	88	50	0	0	25/7,11,18,21 - SPT 25 ¹ /75 N=57 D101	112.15		Between 2.90m and 3.20m; with thick interlaminations of very weak and weak weathered siltstone. Assumed zone of core loss. Possible		
4.20-4.58 4.20 4.20 4.70 4.72 5.00-5.38	78	56	0	0	25/6,8,14,11 SPT 25*/75 N=39 D102 25/5,14,15,18 P1 W401 SPT 25*/75	111.20	(0.80)	Generally very weak variably stiff to very stiff thinly to thickly laminated grey MUDSTONE. Structure generally not visible.		
5.00 5.00 5.55 6.00			0	0	N=52 D103	109.85	(0.55)	Weak to moderately weak thinly laminated black carbonaceous MUDSTONE. Fractures: horizontal, extremely closely to very closely spaced, smooth, planar; 1 nA√5ก็เป็ญกูรู่bick inferingination of weak coal.		
6.00-6.18 6.00	100	36	0	0	D104 25/37,50 SPT 25*/75 87/109		(1.55)	Generally very weak to weak variably very stiff clay light grey MUDSTONE with occasional locally frequent carbonised fossil plant remains. Fractures: where evident subhorizontal to vertical very closely spaced, irregular apparently random strike.		
6.90 7.25-7.60 7.10 7.25 7.25	88	28	0	0	P2 25/23,28,27,22 SPT 25'/75 100/275 D105	108.30	7.10	Very weak to weak thinly laminated grey MUDSTONE with rare carbonised fossil plant remains and occasional very thin beds of moderately weak brown ironstone. Fractures: where evident horizontal (0 - 10 degrees), closely spaced, smooth, planar, tight to open; subvertical, apparently medium spaced smooth, planar.		
3.85-9.17 3.85 3.85 3.85	95	55	12	0	Water strike(1) at 25/21,24,29,26 SPT 25*/75 100/244 D106	(8	(3.10)			
9.00 9.40			0	0	9.00m, no rise after 20 mins. W107 P3					
Remarks			B	35)		•		Scale (approx) 1:50 Figure	TL	



	iritish ieologica		-	ı				Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borehole Number RC1192
Machine: Flush :				Diamete	er sed to 1.30m		Level (mOD) 15.40	Client Highways Agency	Job Number WAL06009
Core Dia: mi	m		Locatio	n		Dates	/11/2006-	Engineer	Sheet
viculou .			44	4814 E 3	357423 N	10,	11/2006	Arup	2/3
Depth (m)	TCR	SCR	RQD	FI	Field Records	(mOD)	Depth (m) (Thickness)	Description	Legend Mark
91						105.20	(3.10)		
0.20 0.40 0.40-10.49 0.80	95	81	53	0	25/50 SPT 25*/75 50/10 P4	103.20	10.20	Moderately weak to moderately strong light and dark grey thinly and thickly colour laminated MIUDSTONE occasional grading to moderately strong to strong siltstone in thin to thick beds. Fractures: subhorizontal, closely to medium spaced, smooth, undulating and planar, occasionally with soft slightly sandy angular fine gravelly clay infill up to 16mm vertical, smooth, planar.	
1.75-12.00	100	74	63	0	U5			Between 12.00m and 12.50m; siltstone.	
	97	88	85	0					
3.55 3.55-13.65 3.90			0	0	25/50 SPT 25*/75 50/21			Between 13.55m and 13.90m; strong siltstone.	
4.15-14.40 4.55			0	0	U6 _	(8		Between 14.55m and 15.00m; moderately strong grey siltstone with frequent dark grey black wispy interlaminae.	
5.00 5.05 5.05-15.15	99	75	67	0	25/50 09/11/2006:8.91m 09/11/2006: SPT 25*/75 50/21 09/11/2006:	99.65			
3.55	99	75	36	0	10/11/2006:	. 55.55	10.70	Moderately strong to strong light and dark grey thinly colour laminated locally light grey with frequent dark grey wispy interlaminae SILTSTONE occasionally grading to moderately weak to moderately strong mudstone in thin to medium beds; with occasional very thin and thin beds of strong light brown ironstone. Fractures: horizontal, closely	*********
3.55 3.55-16.66 3.85			0	0	SPT 25*/75 50/35			and medium spaced, smooth, planar and undulating; vertical to subvertical, planar to irregular. Between 16.35m and 16.85m; non-intact.	X X X X X X X X X X X X X X X X X X X
7.40-17.76 3.00	95	83	69	0	U7 -			Between 17.80m and 17.89m; strong brown ironstone.	* * * * * * * * * * * * * * * * * * *
9.00-19.25	98	94	76	0	U8	(8	(5.25)	Between 18.40m and 19.00m; generally irregular vertical fractures.	
9.50					_				******* ******* ******* ******* ****
Remarks								Scale (approx	Logged By
								1:50	TL
								Figure	No.



British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL						Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI - CONTRACT 2		Borehole Number RC1192	
Boring Method Cable Percussion		- A	Diamete	er sed to 1.30m	Ground Level (mOD)		Client Highways Agency	Job Number	
ouble i cicus	331011				Dates			WAL06009 Sheet	
		Location 444814 E 357423 N			09/11/2006- 10/11/2006		Engineer Arup	3/3	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness	Description	Legeno	Water
20.62-21.00	U9			10/11/2006:4.34m	94.40	(5.25)	Between 20.05m and 20.15m; strong brown ironstone. SILTSTONE (as previous sheet)		
				10/11/2006: 10/11/2006:	94,40	21.00	Complete at 21.00m Complete at 21.00m		
		D	55)				(BGS)		
3)					(4			(
		(d)	350)						
emarks							Scale (approx	k) Fogge	ed
							1:50	TL	
							Figure	No.	