

	British Geologic							Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borehole Number RC1241	
Machine: Flush :				Diamete	er sed to 15.00m	Ground Level (mOD) 63.85			Job Number WAL0600994	
Core Dia:	mm		Locatio		372985 N	Dates	9/01/2007- 0/01/2007	Engineer Arup	Sheet 1/3	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness	Description	Legend Age	
0.00	PIT O/H		0	0	Groundwater was not apparent during boring(1) at 0.00m.	((1.20)	Inspection Pit.	Ψ1	
1.20			(b)	50)		62.65	1.20	Open Hole. See cable percussion hole CP1241 for likely material description.		
5)			(B)	50)		(×		(BGS)	(a)	
56)	97	31	0	0		(«	(13.80		(B)	
Remarks			(8)	35)			<u> </u>	Scale (approx 1:50 Figure	OP/TL	



(855) G	ritish ieologica		-					Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Boreh Numb RC12	er		
Machine:			Casing	Diamete	r	Ground	Level (mOD)	Client	Job Numb	er		
Flush :			14	0mm cas	ed to 15.00m	(3.85	Highways Agency	WAL0600			
Core Dia: mi Method :	m		Location			Location		Dates	/01/2007-	Engineer	Sheet	:
inculou .			44	5054 E 3	72985 N	30	01/2007	Arup	2/3	;		
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water		
55)									(¿	8		
56)			(D)	3)		(a			(×	8		
15.00 15.25			0	0		48.85 48.60	15.00 (0.25) 15.25	Very weak, black, thinly laminated very carbonaceous MUDSTONE. Discontinuities: extremely closely spaced, rough, clean. Generally recovered as 4mm to 8mm thick discs. Moderately weak, black, vitreous COAL. Discontinuities:				
	88	23	8	0				extremely closely and very closely spaced, horizontal and vertical, rough and smooth. From 15.25m to 15.65m; generally recovered non-intact.				
16.50 16.50-16.74			0	0	/18,24,30,29		<u>=</u> =	From 16.50m to 16.68m; assumed zone of core loss.				
16.50-16.74 16.80			0	0	SPT 0*/0 101/240	47.05	16.80	From 16.68m to 16.80m; non-intact. Stiff variably very weak light grey MUDSTONE, with				
			0	0			(0.85)	Stift variably very weak light grey MUDS LONE, with occasional fossilised plant remains. Discontinuities: extremely closely spaced, randomly orientated, smooth and rough fissures.				
17.65 17.75 18.00	83	33	7	0	P1	46.20	17.65	Moderately weak to moderately strong grey (locally dark gre thinly colour laminated) SILTSTONE thinly interbedded with very weak grey mudstone with occasional rounded coarse	y ****** ****** ******			
18.00-18.18			0	0	/30,38,32 SPT 0*/0 100/179		(1.30)	gravel size ironstone nodules. Fractures: (where evident) horizontal, extremely closely to very closely spaced, smooth planar. Frequent irregular discontinuities in mudstone, apparently random strike.	**************************************			
18.85 18.95	100	51	9	0	P2	44.90	18.95	Generally weak (variably very weak to moderately weak) grey MUDSTONE with rare very thin beds of strong brown ironstone. Discontinuities: horizontal, very closely to closely spaced, smooth planar and undulating; vertical and	******			
19.50 19.50-19.73					/28,32,39,1 SPT 0*/0 100/225		- - - - - - - -	subvertical, smooth, planar.				
Remarks								Scale (approx)	Logge	ed		
								1:50 Figure	OP/TI	L		
								Tigure				



	Fritish Geologica ATURAL ENVIRO			ıı				Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borehole Number RC1241
Machine: Casing Diameter Flush : 140mm cased to 15.00m						Ground Level (mOD) 63.85		Client Highways Agency	Job Number WAL0600994
Core Dia: m	m		Location			Dates		Engineer	Sheet
Method:			445054 E 372985 N			29/01/2007- 30/01/2007		Arup	3/3
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend to M
20.40	63	23	0	0	P3	(s		MUDSTONE (as previous sheet)	
21.00 21.00-21.18			0	0	/31,36,33 SPT 0°/0 100/180		(4.25)	At 21.40m; very thin bed of strong brown ironstone.	
21.95	72	7	0	0				From 21.95m to 22.50m; assumed zone of core loss.	
22.50			0	0	/33,38,29 29/01/2007:		<u>-</u> -		
22.80 22.50-22.68			0	0	29/01/2007: SPT 0*/0 100/175			From 22.80m and 23.20m; recovered as firm to stiff thinly laminated grey clay very thinly interbedded with very weak grey mudstone.	
23.20 23.35	98	57	21	0	29/01/2007: 30/01/2007: P4	40.65	23.20	Generally moderately weak (variably weak to moderately strong) black carbonaceous MUDSTONE. Fractures: horizontal, very closely to closely spaced, smooth planar; subvertical and vertical, smooth planar.	
24.00 24.00-24.16	100	32	0	0	/29,39,32 SPT 0*/0 100/162		(3.40)	From 24.30m to 24.50m; thin bed of strong dark grey black siltstone.	
25.30 25.50 25.50-25.66			0	0	P5 /31,42,27 SPT 0'/0 100/159	37.25	26.60	Between 25.50m to 25.60m; thin bed of soft light grey slightly gravelly clay. Gravel is subangular fine to coarse of mudstone (probably fallen from above). Between 25.60m to 26.00m; thickly colour laminated black and light brown. Between 26.00m and 26.25m; thin bed of weak light grey mudstone with occasional carbonised plant remains. At 26.50m; rare thin laminations of weak brittle black	
26.60 26.70 27.00 27.00-27.23	100	0	0	0	P6 /21,29,37,13 SPT 0*/0 100/229	07.20	- 20.00 	coal. Generally moderately strong (variably weak to strong) light grey locally medium and coarse sandy MUDSTONE. Fractures: subhorizontal and subvertical, closely and medium spaced, rough to irregular.	
27.70-27.97			0	0	U7		(1.60)	median speces, rough to megalar.	
28.20 28.45					P8 30/01/2007:	35.65 35.35	28.20 (0.30) 28.50	Weak grey MUDSTONE. Fractures: subhorizontal (30 degrees to 40 degrees), smooth, planar; subvertical, smooth planar to irregular.	h,
					30/01/2007:	- \<		Complete at 28.50m	10
Remarks							-	Scale (approx	Logged By
								1:50	OP/TL
								Figure	No.