

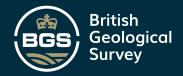
	TCR SCR RQD FI Field Records Groundwater was Tolk TCR SCR RQD FI Field Records Groundwater was Tolk TCR SCR RQD FI Field Records Tolk TCR TCR		Boret Numb RC12							
Machine:								Client	Job Numb WAL060	
Method :	mm				364980 N	Dates 01/11/2006- 02/11/2006				;
Depth (m)	TCR	SCR	RQD	FI			Depth (m) (Thickness	Description	Legend	Water
0.00	ОН		0	0	Groundwater was not apparent during boring(1) at 0.00m.	(<		OPEN HOLE		- Σ1
			(B)	9				(BGS)		
56)						((00
			0							
56)						(¿				000
Remarks			(8)	36)				Scal (appro 1:50 Figur	TL	ed .



	British Geologic						Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI - CONTRACT 2	Borehole Number RC1260	
Machine: Flush : Core Dia:	mm			Diamete Omm cas	r ed to 28.60m	Ground Level (mOE 103.95) Client Highways Agency	Job Number WAL060099A	
Method :			Location 445334 E 364980 N			Dates 01/11/2006- 02/11/2006	Engineer Arup	Sheet 2/5	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level Depth (mOD) (Thickness	Description	Fedeud yate	
35)							OPEN HOLE (as previous sheet)	(80	
			(all	9					
55)	100	72	56	0		- (28.66))	(B)	
			(B)	5)					
56)								(B)	
Remarks			(B)	35)			Scale (appro) 1:50 Figure	TL	



	British Geologic IATURAL ENVIR			IL.				Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borehole Number RC1260	
Machine: Flush :				Diamete	r ed to 28.60m		Level (mOD) 103.95	Client Highways Agency	Job Number WAL060099A	
Core Dia: m	nm		Location 445334 E 364980 N			Dates 01/11/2006- 02/11/2006		Engineer Arup	Sheet 3/5	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Nater	
5)						(s		OPEN HOLE (as previous sheet)	(0)	
			(di	35)						
			(d)	369)		(4				
28.60 28.90 29.20	96	73	0 0 32	0 0	P1	75.35 75.05 74.15	(0.30) 28.90 (0.90)	Recovered non intact as soft to firm grey CLAY with gravel sized fragments of mudstone. Moderately weak to moderately strong light and dark grey thinly colour laminated SILTSTONE. Fractures; horizontal, closely spaced (160/170/230), smooth and planar. Weak to moderately weak thinly laminated dark grey	**************************************	
Remarks	90	13	32	J				Scale (approx	Logged By	
								1:50	TL	
								Figure	No.	



	_			ı.				Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borehole Number RC1260
Machine: Flush :					r ed to 28.60m		Level (mOD)	Client Highways Agency	Job Number WAL060099A
Core Dia: m	m							- , . ,	
Method :	Casing Dia			0.4000 N	01/11/2006-		Engineer	Sheet	
Denth			44	5334 E 3	64980 N		/11/2006	Arup	4/5
Depth (m)	TCR	SCR	RQD	FI	Field Records	(mOD)	Depth (m) (Thickness)	Description	Fedeud Page
60.00 60.10 60.10-30.20 60.10	100	73	22	0	P2 25/50 SPT 25*/75 50/28 D9	(<		MUDSTONE with rare very thin beds of moderately strong to strong, light brown ironstone (locally grading to siltstone). Fractures; horizontal (0-10 degrees), very closely to closely spaced (generally becoming closely spaced), smooth, planar tight to open. Other fractures irregular, apparently random strike.	
1.60			0	0	Р3		(4.80)	(BGS)	
3.00 3.10 3.10-33.22 3.30	90	74		0	25/50 SPT 25*/75 50/47			Between 33.00 and 33.30m fractures are subhorizontal (35 deg), very closely spaced, smooth and planar	
4.10	51	27	0	0	P4				
4.60 4.60-34.71 4.60	100	77	63	0	25/50 SPT 25*/75 50/33 D10	69.35 69.05	34.60 (0.30) 34.90	At 34.55m very thin bed of strong ironstone Approximate boundary. Weak brittle black COAL with occasional flecks of pyrite. At top; approximate boundary. Strong dark brown black ironstone with frequent fossil shell fragments recovered as angular cobble sized fragments.	
							(1.20)	Approximate boundary. Generally very weak (variably stiff to very stiff) dark grey MUDSTONE with occasional carbonised plant remains and very thin laminations of black brittle coal.	
6.10 6.10-36.26 6.10 6.30-36.79			0	0	25/40,10 SPT 25*/75 50/83 D11 U5	67.85	36.10	Moderately strong light and dark grey thinly cross colour laminated SILTSTONE. Fractures are horizontal, closely to medium spaced, smooth, planar and open.	******* ******* ******* ******* ****
7.00	100	75	33	0		66.95	37.00	Generally moderately weak (variably weak to moderately strong) dark grey MUDSTONE thinly interbedded with moderately weak to moderately strong light and dark grey colour laminated SILTSTONE. Rare very thin beds of strong	*****
7.60 8.10-38.32	97	69	26	0	01/11/2006:22.90m 01/11/2006: 01/11/2006:DRY 02/11/2006: U6			light brown ironstone. Fractures are horizontal, very closely to medium spaced, smooth, planar, occasionally with soft grey clay infill (up to 8mm). Subhorizontal fractures (50 degrees), apparently widely spaced, smooth, planar and undulating. Other fractures generally subvertical to vertical and irregular	
9.10						K	(3.60)	Between 38.90 and 39.10m moderately weak siltstone	
								At 39.60 very thin bed of strong ironstone	
Remarks				91				Scale (approx)	Logged By
								1.55	No.



	British Geological Surve atural environhent rese		56)				Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2		
Boring Method Cable Percussion		Casing Diameter 140mm cased to 28.60m			Ground Level (mOD) 103.95		Client Highways Agency	Job Number WAL060099A	
		Location			Dates		Engineer	Sheet	
		445334 E 364980 N					Arup	5/5	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend 5	
							MUDSTONE (as previous sheet)		
9.30 9.85-40.05	P7 U8			02/11/2006:	63.35	40.60	Complete at 40.60m		
		(h)		02/11/2006: 02/11/2006:21.00m					
3)					(&			(8)	
					((8)	
Remarks				<u> </u>		<u> </u>	Scale (approx	Logged By	
							1:50	TL	
							Figure	No.	