

 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL						Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2			Borehole Number RC1224	
Machine: Flush : Core Dia: mm Method :		Casing Diameter 140mm cased to 8.00m		Ground Level (mOD) 115.80		Client Highways Agency			Job Number WAL060099A	
		Location 445359 E 366814 N		Dates 04/10/2006- 09/10/2006		Engineer Arup			Sheet 1/3	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00	OH		0	0	Groundwater was not apparent during boring(1) at 0.00m.			OPEN HOLE. Refer to borehole CP1224 for likely material description.		▽1
	32	0	0	0			(7.20)			
7.20					04/10/2006: DRY 04/10/2006: 04/10/2006: 05/10/2006:	108.60	7.20	Poor recovery. Recovered as firm to stiff grey brown slightly sandy gravelly clay. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse sandstone, siltstone, mudstone and coal. With occasional cobbles. Probably MADE GROUND.		
8.70	53	0	0	0						
Remarks								Scale (approx) 1:50	Logged By SM	
								Figure No.		



 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL						Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2			Borehole Number RC1224	
Machine: Flush :		Casing Diameter 140mm cased to 8.00m		Ground Level (mOD) 115.80		Client Highways Agency			Job Number WAL060099A	
Core Dia: mm		Location 445359 E 366814 N		Dates 04/10/2006- 09/10/2006		Engineer Arup			Sheet 2/3	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.20								Probably MADE GROUND (as previous sheet)		
	33	0	0	0			(7.30)			
11.70										
	59	0	0	0						
14.50					05/10/2006: DRY 05/10/2006: 05/10/2006: DRY 06/10/2006:	101.30	14.50	Poor recovery. Recovered as 0.90m of stiff mottled grey and brown slightly gravelly CLAY. Possible		
	79	56	24	0			(2.60)			
17.10 17.20					P1	98.70	17.10	Moderately strong very thinly bedded light grey with occasional dark grey laminations fine and medium grained SANDSTONE. Moderately weathered with iron staining throughout. Fractures are subhorizontal, closely to medium spaced, open, undulating and slightly rough with iron staining penetrating up to 10mm. Subvertical fractures are indistinctly spaced, open, undulating and rough. From approximately 17.90m to 18.50m; assumed zone of core loss.		
	87	87	43	0						
18.50							(2.90)			
	100	83	43	0						
20.00										
Remarks								Scale (approx) 1:50	Logged By SM	
								Figure No.		



 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL						Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2			Borehole Number RC1224	
Machine: Flush : Core Dia: mm Method :		Casing Diameter 140mm cased to 8.00m		Ground Level (mOD) 115.80		Client Highways Agency			Job Number WAL060099A	
		Location 445359 E 366814 N		Dates 04/10/2006- 09/10/2006		Engineer Arup			Sheet 3/3	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
20.80	76	69	36	0	P2	95.80 95.45 95.00	20.00 (0.35) 20.35 (0.45) 20.80	Moderately weak grey fine and medium grained SANDSTONE, recovered as cobbles up to 100mm x 80mm x 80mm with some iron staining. Stiff dark grey CLAY with occasional carbonaceous plant remains. Moderately strong very thinly bedded light grey with occasional dark grey laminations fine and medium grained SANDSTONE. Fractures are subhorizontal, closely to medium spaced, open, undulating and slightly rough with iron staining penetrating up to 10mm. Subvertical fractures are indistinctly spaced, open, undulating and rough. At 21.20m; 45 degree fracture, open, undulating and rough. At 21.30m; 45 degree fracture, open, undulating and rough. At 21.85m; horizontal fracture, heavily iron stained, penetrating 5mm to 8mm. At 21.85m; horizontal fracture, heavily iron stained, penetrating 5mm to 8mm. Between 22.50m and 22.65m; stiff grey clay with some weak lithorelics of mudstone.		
21.50	Sample / Tests		Casing Depth (m)	Water Depth (m)						
21.90-22.15	U3				06/10/2006:DRY 06/10/2006: 06/10/2006:DRY 09/10/2006: 09/10/2006: 09/10/2006: 09/10/2006:	92.20	23.60	Complete at 23.60m		
Remarks								Scale (approx) 1:50	Logged By SM	
								Figure No.		