

G101
~~W401~~



**British
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL

Site	
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M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI -
CONTRACT 2

Borehole

RC1242

Boring Method

Cable Percussion

Casing Diameter

140mm cased to 18.00m

Ground Level (mOD)

62.50

Dates

14/11/2006-
16/11/2006

Client	
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Highways Agency

Engineer

Агуп

Job	Rate	Time	Cost
1	10	10	100
2	20	20	400
3	30	30	900
4	40	40	1600
5	50	50	2500
6	60	60	3600
7	70	70	4900
8	80	80	6400
9	90	90	8100
10	100	100	10000

Number

WAL060099


Sheet

1/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				Groundwater was not apparent during boring(1) at 0.00m.			For likely material description see CP1242.		
	41 41	35	0			(7.70)			
7.70	TCR SCR RQD FI				54.80	7.70 (0.41)	MADE GROUND. Boulder of moderately strong light grey fine grained sandstone, with extremely closely spaced thin laminae of grey siltstone.		
	61 0 0 0				54.39	8.11 (0.59)	Assumed zone of core loss.		
8.70-9.15				4,5/5,6,7,8 SPT N=26	53.80	8.70 (0.50)	MADE GROUND. Firm mottled grey and light brown gravelly clay. Gravel is subangular to subrounded, fine to coarse of mudstone and siltstone.		
8.70					53.30	9.20	Very poor recovery. Recovered as light grey brown with some grey and orange mottling, slightly sandy, very gravelly clay. Gravel is subangular to subrounded, fine to coarse of siltstone and sandstone, with occasional cobbles of fine grained sandstone. Possible		
20 0 0 0									
Remarks Rotary follow on from CP1242.;No visual or olfactory indication of contamination was observed.;Driller notes borehole unstable when coring. Casing installed to 13.20m. Difficult reaming through boulders.;								Scale (approx) 1:50	Logged By OP
								Figure No.	

[illegible]



 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL							Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2			Borehole Number RC1242	
Machine: Flush : Core Dia: mm Method :		Casing Diameter 140mm cased to 18.00m		Ground Level (mOD) 62.50		Client Highways Agency		Job Number WAL060099			
		Location 445155 E 373213 N		Dates 14/11/2006- 16/11/2006		Engineer Arup		Sheet 3/3			
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
20.25					P3						
20.50					25/50						
20.50-20.60					SPT 25'/75						
					50/29						
	100	41	14	0			(3.20)				
								From 21.50m; occasional gravel sized nodules of ironstone.			
22.00					15/11/2006:14.10m	40.30	22.20				
					15/11/2006:			Moderately weak (variably stiff clay/very weak) dark grey MUDSTONE with extremely closely to very closely spaced thick laminae of coal, with many fossilised plant remains. Discontinuities: extremely closely to closely spaced.			
					15/11/2006:11.60m		(0.72)				
					16/11/2006:						
22.92						39.58	22.92				
23.03					P4		(0.38)	Weak black very carbonaceous MUDSTONE with extremely closely spaced thin and thick laminae of vitreous coal. With occasional gravel sized pockets of pyrites. Discontinuities: intact.			
23.30						39.20	23.30				
23.50	95	53	32	0							
							(1.16)	Weak and moderately weak (variably clay/very weak) dark grey and light grey MUDSTONE, with closely to medium spaced thin beds of carbonaceous mudstone and coal. With some fossilised plant remains. Discontinuities: extremely closely spaced, randomly orientated, with some clay infill microfractures. Very closely spaced, horizontal and subhorizontal, rough, clean.			
24.46						38.04	24.46				
	96	78	42	0				Moderately strong, grey and light grey thinly interlaminated to thinly interbedded MUDSTONE and siltstone. Discontinuities: occasionally non-intact, extremely closely to			
25.00					P5			At 25.05m; coarse gravel sized nodule of ironstone, medium spaced, horizontal, smooth, clean. Vertical and subvertical, undulating, rough, clean.			
25.00											
25.81-26.17	100	69	39	0	U6						
							(3.54)				
26.50											
	Sample / Tests		Casing Depth (m)	Water Depth (m)							
26.70-27.12	U7										
27.26	P8										
								From 27.08m to 27.14m; ironstone.			
					16/11/2006:	34.50	28.00	From 27.83m to 27.88m; ironstone.			
					16/11/2006:						
								Complete at 28.00m			
Remarks								Scale (approx) 1:50	Logged By OP		
								Figure No.			