

British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL							Site  M1 WIDENING JUNCTION 21 TO 30 PRELIMIN CONTRACT 2		Borehol Number RC128
Machine: Casing Diamete Flush : 140mm cas Core Dia: mm Method :			r	Ground Level (mOD)		Client	Job Number		
			0mm cas	ed to 4.20m	105.25  Dates 13/11/2006		Highways Agency	WAL0600	
			n				Engineer	Sheet	
			445248 E 364832 N			15/11/2000		Arup	1/2
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
0	PIT		0	0	Groundwater was not apparent during boring(1) at 0.00m.			MADE GROUND. Grey brown, grey and black gravelly clay. Gravel is angular to subangular medium to coarse of	7
0-1.20	O/H		0	0	В		(1.20)	mudstone and coal.	
						104.05	1.20		
:0								Open Hole.	
	96	68	0	0			(3.05)	(BCS)	
5						101.00	4.25	Very weak to weak grey thinly colour laminated black	*****
			0	0			(0.75)	Very weak to weak grey thinly colour laminated black weathered SILTSTONE with grey brown discolouration throughout; structure locally lost; orange brown discolouration on fracture surfaces. Fractures: where	×××××× ×××××× ×××××× ××××××
5 0-5.45 0	67	44	0	0	6,8/7,9,11,15 SPT(C) N=42	100.25	5.00	evident horizontal (5 degrees to 10 degrees), very closely spaced, smooth, planar.	******
			0	0				Generally weak (variably very weak) thinly and thickly laminated grey MUDSTONE, locally weathered in thin beds to stiff clay; structure frequently lost.	
5 0			0	0			(1.50)	Below 6.00m; assumed zone of core loss.	
0-6.95	o	0	0	0	8,10/12,14,14,17 SPT(C) N=57			below 0.00m, assumed 20ne of core loss.	
ō			10			98.75	6.50	No recovery. Possible fissure.	
	43	9	0	0			(1.50)		
0-8.45 0					9,9/11,12,14,14 SPT(C) N=51	97.25	8.00		
			0	0			(0.65)	Between 8.00m and 8.35m; recovered as firm to stiff gravelly clay; structure lost.	
5 5			0	0		96.60	8.65	GPneyair Meak (Natiah) ତିଆ / Weak in thinly and thickly laminated grey MUDSTONE, locally weathered in thin beds to stiff clay; structure frequently lost. Fractures: where	
	67	22	0	0		13		evident horizontal (5 degrees), extremely closely to very closely spaced, smooth , planar; vertical, smooth, planar.	
0-9.95 0					6,12/16,17,21,31 SPT(C) N=85		(1.35)	No recovery.	
00			0	0		95.25	10.00		
emarks								Scale (approx	Logged By
								1:50	TL
								Figure	



British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL								Site  M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2		Borehole Number RC1288	
Machine: Flush : Core Dia: mm Method :			Casing Diameter 140mm cased to 4.20m  Location 445248 E 364832 N			Ground Level (mOD) 105.25 Dates 13/11/2006			Job Number WAL06009 Sheet		
											Depth (m)
10.65	41	5	0	0		94.60	(0.65)	Generally weak (variably very weak) thinly and thickly laminated grey MUDSTONE, locally weathered in thin beds to stiff clay; structure frequently lost.  At 10.45m; occasional subrounded coarse gravel size ironstone nodules.			
1.00			0	0		94.25	11.00	Weak to moderately weak brittle black COAL. Fractures: horizontal and vertical, extremely closely to very closely spaced, planar.			
1.40			0	0			(1.50)	Poor recovery. Recovered as fragments of coal and firm grey CLAY with frequent black carbonised fossil plant remains.			
1.90	67	52	24	0				(69)			
2.50 2.50-12.61			0	0	25/50 SPT(C) 25*/44 50/62	92.75 92.25	12.50 (0.50) 13.00	Assumed zone of core loss.	xxxxxx		
3.00	67	67	16	0	P1	V-12-0	(1.30)	Generally moderately weak (variably weak to moderately strong) light and dark grey thinly colour lanninated SILTSTONE. Fractures: horizontal, closely spaced, smooth planar and undulating, occasionally infilled with soft sandy clay up to 4mm; others generally vertical, irregular.	, *************************************		
3.90 4.00			0	0	P2	90.95	14.30		*******		
14.30 14.55			0	0 0	P3		(1.20)	Weak to moderately weak light and dark grey thinly cross At 14.45m; very thin bed of moderately strong ironstone, colour laminated MUDSTONE. Fractures: horizontal, very closely to closely spaced, smooth, planar; vertical, generally irregular.			
4.95 5.00					P4 13/11/2006:15.21m	89.75	15.50	Between 15.00m and 15.50m; no recovery.			
			(0)	55)	13/11/2006:			Complete at 15.50m			
						(«					
Remarks				.61				Scale (approx	Logge By	d	