





British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL							Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI - CONTRACT 2		Borehole Number CP1260		
Boring Method Cable Percussion		Casing Diameter 200mm cased to 3.00m			Ground Level (mOD) 103.95		Client Highways Agency			Job Number WAL060099	
		Location 445334 E 364980 N			Dates 27/10/2006-30/10/2006		Engineer Arup			Sheet 1/3	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water		
1.50-1.95	U1			Groundwater was not apparent during boring(1) at 0.00m.	103.80	(0.15)	Dark brown very clayey sand and orange TOPSOIL.		V1		
					103.50	0.15 (0.30)	MADE GROUND. Recovered as light reddish brown very sandy clayey angular medium and coarse gravel of mudstone.				
					103.35	0.45 (0.15)	MADE GROUND. Light grey brown very sandy angular fine to coarse well graded gravel. (Type I)				
					102.75	1.20 (0.30)	MADE GROUND. Recovered as light brown very sandy angular and subangular gravel of mudstone and sandstone.				
2.00	D2			100 blows	102.45	1.50	MADE GROUND. Driller notes clay backfill.				
2.50-2.95	SPT N=24	1.50	DRY	3,5/4,6,7,7			MADE GROUND. Stiff grey brown locally mottled orange and blue grey slightly gravelly clay. Gravel is subangular fine and medium of sandstone.				
2.50	D3										
2.50-3.00	B4										
3.50-3.95	U5							70 blows	At 4.50m; slightly sandy clay.		
4.00	D6										
4.50-4.95	SPT N=28	3.00	DRY	6,5/7,6,7,8							
4.50	D7										
4.50-5.00	B8										
5.50-5.70	U							100 blows			
5.50-6.00	B9					(5.50)					
6.50-6.95	SPT N=19	3.00	DRY	2,4/5,5,5,4							
6.50	D10										
6.50-7.00	B11										
7.50-7.95	U12							27/10/2006: DRY	95.95	8.00	
8.00	D13	27/10/2006: 100 blows									
		27/10/2006:									
		30/10/2006:									
9.00-9.45	SPT N=32	3.00	DRY	3,5/6,5,9,12							
9.00	D14										
9.00-9.50	B15										
Remarks								Scale (approx) 1:50	Logged By MW		
								Figure No.			



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Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.50-10.95 10.50 10.50-11.00	SPT N=35 D16 B17	3.00	DRY	4,6/7,9,8,11			MADE GROUND (as previous sheet)		
12.00-12.45 12.00 12.00-12.50	SPT N=23 D18 B19	3.00	DRY	4,5/5,5,6,7			Below 12.00m; some to many fragments of grey weathered mudstone. Gravel is subangular and subrounded medium and coarse of sandstone and locally coal and carbonaceous mudstone, with some siltstone cobbles.		
13.50-13.95 13.50 13.50-14.00	SPT N=26 D20 B21	3.00	DRY	3,5/6,5,7,8					
15.00-15.45 15.00 15.00-15.50	SPT N=35 D22 B23	3.00	DRY	6,7/7,9,9,10			At 15.00m; grey blue friable clay with some weathered mudstone fragments.		
16.50-16.95 16.50 16.50-17.00	SPT N=45 D24 B25	3.00	DRY	7,9/9,10,12,14			Below 16.50m; grey and locally pale grey. Gravel is medium to coarse subangular of coal and carbonaceous mudstone. Some cobble sized pockets of mudstone.		
18.00-18.45 18.00 18.00-18.50	SPT N=38 D26 B27	3.00	DRY	6,8/7,9,11,11					
19.50-19.95	U28			100 blows		(20.40)			
Remarks							Scale (approx) 1:50	Logged By MW	Figure No.



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Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
20.00	D29						MADE GROUND (as previous sheet)			
21.00-21.45 21.00 21.00-21.50	SPT N=62 D30 B31	3.00	DRY	10,11/11,14,17,20			Below 21.00m; grey locally grey green and black occasionally weathered mudstone fragments, and occasional tabular cobbles of carbonaceous mudstone.			
22.50-22.95 22.50 22.50-23.00	SPT N=67 D32 B33	3.00	DRY	9,11/11,15,19,22			Below 22.50m; no coal or carbonaceous mudstone noted.			
24.00-24.45 24.00 24.00-24.50	SPT N=65 D34 B35	3.00	DRY	8,9/11,13,17,24		(20.40)				
25.50-25.95 25.50 25.50-26.00	SPT N=53 D36 B37	3.00	DRY	8,10/8,10,15,20						
27.00-27.45 27.00 27.00-27.50	SPT N=58 D38 B39	3.00	DRY	9,10/11,13,15,19						
28.40-28.47 28.40 28.60	SPT 25'/50 35/20 D40 D41	3.00	DRY	25/35 30/10/2006:DRY	75.55 75.35	28.40 (0.20) 28.60	Weak to moderately weak grey SILTSTONE recovered as angular and subangular tabular fine to coarse gravel sized fragments.			
28.60-28.64	SPT 25'/20 35/15	3.00	DRY	30/10/2006: 25/35 30/10/2006:DRY			Complete at 28.64m			
Remarks							Scale (approx) 1:50	Logged By MW	Figure No.	