





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	1.50	DRY	Groundwater was not apparent during boring(1) at 0.00m.  100 blows	103.80 103.50 103.35	(0.15) 0.15 (0.30) 0.45 (0.15) 0.60	Dark brown very clayey sand and orange TOPSOIL. MADE GROUND. Recovered as light reddish brown very sandy clayey angular medium and coarse gravel of mudstone. MADE GROUND. Light grey brown very sandy angular fine to coarse well graded gravel. (Type I)		V1			
2.00	D2				102.75 102.45	1.20 (0.30) 1.50	MADE GROUND. Recovered as light brown very sandy angular and subangular gravel of mudstone and sandstone. MADE GROUND. Driller notes clay backfill.					
2.50-2.95 2.50 2.50-3.00	SPT N=24 D3 B4			3,5/4,6,7,7	101.45	2.50	MADE GROUND. Stiff grey brown locally mottled orange and blue grey slightly gravelly clay. Gravel is subangular fine and medium of sandstone.					
3.50-3.95	U5			70 blows								
4.00	D6	3.00	DRY									
4.50-4.95 4.50 4.50-5.00	SPT N=28 D7 B8			6,5/7,6,7,8		(5.50)	At 4.50m; slightly sandy clay.					
5.50-5.70 5.50-6.00	U B9			100 blows								
6.50-6.95 6.50 6.50-7.00	SPT N=19 D10 B11			2,4/5,5,5,4			Between 6.50m and 8.00m; grey brown silt/clay with occasional subangular sandstone cobbles.					
7.50-7.95 8.00	U12 D13	3.00	DRY	27/10/2006: DRY 27/10/2006: 100 blows 27/10/2006: 30/10/2006:	95.95	8.00	MADE GROUND. Very stiff locally stiff grey brown mottled grey blue yellow and occasionally black, friable, locally gravelly clay, with some weathered mudstone fragments. Gravel is angular to subrounded fine to coarse of sandstone and some black coal.					
9.00-9.45 9.00 9.00-9.50	SPT N=32 D14 B15			3,5/6,5,9,12								
Remarks								Scale (approx) 1:50		Logged By MW		
								Figure No.				



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		<b>Location</b> 445334 E 364980 N		<b>Dates</b> 27/10/2006- 30/10/2006		<b>Engineer</b> Arup		<b>Sheet</b> 2/3	
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)			
<b>Remarks</b>							<b>Scale (approx)</b> 1:50	<b>Logged By</b> MW	
							<b>Figure No.</b>		



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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			
<b>Remarks</b>								<b>Scale (approx)</b> 1:50	<b>Logged By</b> MW	
								<b>Figure No.</b>		