



 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL							Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2		Borehole Number CP1221	
Boring Method Cable Percussion		Casing Diameter 150mm cased to 4.50m		Ground Level (mOD) 105.25		Client Highways Agency		Job Number WAL060099		
		Location 445301 E 365694 N		Dates 25/09/2006		Engineer Arup		Sheet 1/2		
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.20	D1			Groundwater was not apparent during boring(1) at 0.00m.	105.10	(0.15) 0.15	TOPSOIL. Possible MADE GROUND. Very stiff friable light grey brown mottled blue grey clay with occasional subangular fine to coarse gravel of weathered mudstone. (Possible MADE Ground).		V1	
1.50-1.95	U2			60 blows			At 1.50m; stiff.			
2.00	D3						From 2.00m; fine to medium subangular gravel of sandstone.			
2.50-2.95 2.50 2.50-3.00	SPT N=52 D4 B5	2.50	DRY	7,11/8,12,15,17						
3.50-3.95 3.50 3.50-4.00	SPT N=76 D6 B7	3.50	DRY	10,12/15,17,20,24			From 3.50m; locally orange brown and slightly sandy.			
4.50-4.95 4.50 4.50-5.00	SPT N=47 D8 B9	4.50	DRY	5,5/6,12,15,14			Below 4.50m; with occasional gravel sized fragments of coal.			
6.00-6.45	U10			80 blows						
6.50	D11									
7.50-7.95 7.50 7.50-8.00	SPT N=31 D12 B13	4.50	DRY	9,9/7,7,8,9			From 7.50m; stiff grey brown locally blue grey gravelly clay. Gravel is subangular, medium to coarse of coal, sandstone and mudstone. At 7.90m; driller notes mudstone.			
9.00-9.45 9.00 9.00-9.50	SPT N=53 D14 B15	4.50	DRY	5,5/7,8,15,23						
Remarks							Scale (approx) 1:50	Logged By MW		
							Figure No.			



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		Location 445301 E 365694 N		Dates 25/09/2006		Engineer Arup		Sheet 2/2	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.50-10.95	U16				94.75	(10.35) 10.50	Very stiff grey brown and orange brown locally sandy CLAY with occasional subangular medium gravel of sandstone. Possible		
11.00	D17								
12.00-12.45 12.00 12.00-12.50	SPT N=43 D18 B19	4.50	DRY	5,6/8,9,12,14		(3.15)	From 12.00m; becoming gravelly.		
13.50-13.95 13.50 13.50-14.00	SPT N=40 D20 D21	4.50	DRY	8,9/9,9,10,12	91.60	13.65	Between 13.50m and 13.65m; driller notes coal. Light grey brown mottled orange brown gravelly CLAY with angular to subangular fine to coarse gravel sized fragments of mudstone, sandstone and carbonaceous mudstone.		
						(1.35)			
15.00-15.12 15.00 15.00-15.40 15.40	SPT 25'/70 35/50 D22 B23 D24	4.50	DRY	25/35 25/09/2006: DRY	90.25 89.85	15.00 (0.40) 15.40	Recovered as orange grey brown angular to subrounded fine to coarse fragments of weak SANDSTONE.		
15.40-15.43	SPT 25'/15 35/10	4.50	DRY	25/09/2006: 25/35 25/09/2006:			Complete at 15.43m		
Remarks							Scale (approx) 1:50	Logged By MW	Figure No.