
 <b>British Geological Survey</b> NATURAL ENVIRONMENT RESEARCH COUNCIL						Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade		Borehole Number <b>M40</b>			
Machine:			Casing Diameter			Ground Level (mOD) 88.73		Client Highways Agency		Job Number F11451	
Flush :			Location 444649.81 E 371333.48 N			Dates 10/09/1999-14/09/1999		Engineer WSP Environmental Ltd		Sheet 1/2	
Core Dia: mm											
Method :											
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.30-0.60			0	25	D01 0 blows	88.63	0.10 (0.60)	TOPSOIL. MADE GROUND: Light grey medium and coarse angular gravel sized fragments of limestone.			
0.60-0.70 0.80 0.80-1.23	22	6	0	97	D02 0 blows 15,8/11,18,14,7 SPT 50/275	88.03	0.70	Light grey and brown thinly laminated subhorizontal slightly and moderately weathered fine grained SANDSTONE, moderately weak with very closely and extremely closely spaced subhorizontal and subvertical fractures open rough planar. (Coal Measures)			
1.20			0	25			(1.30)				
1.82 2.00-2.31	36	13	0	97	4,18/24,23,3,0 SPT 50/155	86.73	2.00	Black slightly weathered COAL, weak with extremely closely spaced subhorizontal and subvertical fractures open and tight smooth planar. (Coal Measures)			
2.23			0	25			(1.00)				
2.72 3.00-3.11 3.11	87	4	0	98	17,8/50,0,0,0 SPT 25*/85 50/25	85.73	3.00	Stiff and very stiff grey slightly sandy CLAY with much fine to coarse angular and subangular gravel of mudstone, sandstone and ironstone with some cobbles and boulders. (Workings) (Coal Measures)			
	77	0	0	98							
4.00							(2.70)				
	100	44	15	4							
5.50-5.76					5,20/26,24,0,0 SPT 50/105						
5.75			0	99		83.03	5.70	Grey thinly laminated subhorizontal thinly bedded subhorizontal slightly weathered MUDSTONE, moderately weak and weak with closely spaced subhorizontal fractures open smooth planar. (Coal Measures) ---from 6.20m becomes moderately weathered with very closely spaced irregular fractures open rough clay smeared, non intact			
6.20	99	84	10	23			(1.45)				
7.15					10/09/1999:0.00m 14/09/1999:	81.58	7.15 (0.35)	Grey thinly laminated subhorizontal very thinly bedded subhorizontal slightly weathered SILTSTONE, moderately weak with very closely spaced subhorizontal to inclined fractures open smooth planar and iron stained. (Coal Measures)			
	87	66	16	4		81.23	7.50				
8.30			0	99				Light and dark grey thinly laminated subhorizontal thinly and very thinly bedded subhorizontal slightly weathered fine and medium grained SANDSTONE, moderately weak, locally moderately strong, with closely and very closely spaced subhorizontal fractures open smooth planar and medium spaced subvertical fractures open rough irregular with iron stained. (Coal Measures) ---from 8.45m to 8.60m non intact ---from 8.95m to 9.00m non intact			
8.45			0	5							
8.60			0	99							
			0	16							
8.95 9.00	95	85	36	0	Moderate(1) at 9.20m, sealed at 100000.00m.						
9.75 10.00			0	15			(4.50)				
<b>Remarks</b> 1. Inspection pit excavated to 0.80m. 2. Borehole complete at 12.00m. 3. 50mm diameter standpipe installed at 12.00m. 4. Marker Post Ref 233/1 -50S								Scale (approx) 1:50	Logged By NBR		
								Figure No.			



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Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
11.20	85	21	0	99	Fast(2) at 11.00m, sealed at 100000.00m.  14/09/1999:6.80m 14/09/1999:	76.73	12.00	---from 11.20m becomes light grey medium and coarse grained, non intact  Complete at 12.00m		V2
Remarks							Scale (approx) 1:50		Logged By NBR	
							Figure No.			