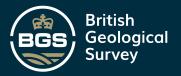


	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL							Site  Nottinghamshire/ Derbyshire COA NMCS2 Upgrade	Borehole Number M40	
Machine: Flush : Core Dia: mm Method :			Casing	Diamet	er	Bates 10/09/1999- 14/09/1999		Client Highways Agency	Job Number F11451 Sheet	
			Locatio		E 371333.48 N			Engineer WSP Environmental Ltd		
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	
61						88.63	0.10	TOPSOIL.		
0.30-0.60			0	25	D01 0 blows	20.02	(0.60)	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		
1.20			0	25			(1.30)	planar. (Coal Measures)		
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		
2.23			0	25			   (1.00)	closely spaced subhorizontal and subvertical fractures open and tight smooth planar. (Coal Measures)		
2.72	87	4	0	98	17,8/50,0,0,0	85.73	3.00			
3.00-3.11 3.11	77	0	0	98	SPT 25*/85 50/25	00.10	- 0.00	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)		
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)		
6.20	99	84	10	23			(1.45)	from 6.20m becomes moderately weathered with very closely spaced irregular fractures open rough clay smeared, non intact		
		04	10	20			- - - - -			
7.15					10/09/1999:0.00m 14/09/1999:	81.58 81.23	7.15 (0.35) 7.50	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		
	87	66	16	4			- - - - - -	Measures)		
8.30			0	99			6	and medium grained SANDSTONE, moderately weak, locally moderately strong, with closely and very closely spaced subhorizontal fractures open smooth planar and		
8.45 8.60			Ō	5	_			medium spaced subvertical fractures open rough irregular with iron stained. (Coal Measures)		
3.95			0	99 16	=			from 8.45m to 8.60m non intact from 8.95m to 9.00m non intact		
9.00	95	85	36	0	Moderate(1) at 9.20m, sealed at 100000.00m.		     			
9.75 10.00			0	15	1		(4.50)			
Remarks	n pit excava	ited to 0.	80m. 2. E	Borehole	complete at 12.00m.	3. 50mm c	liameter stan	dpipe installed at 12.00m. 4. Marker Post Ref Scale (approx	Logged By	
								1:50	NBR	
								Figure	No.	



British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL							Site  Nottinghamshire/ Derbyshire COA NMCS2 Upgrade	Num	Borehole Number M40	
Machine: Flush : Core Dia: mm Method :			Casing	Diamete	er	Ground Level (mOD) 88.73		Client Highways Agency		<b>ber</b> 451
			Location 444649.81 E 371333.48 N			Dates 10/09/1999- 14/09/1999		Engineer WSP Environmental Ltd	Shee	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legen	Water
	85	21	0	99						
1.20					Fast(2) at 11.00m, sealed at 100000.00m.			from 11.20m becomes light grey medium and coarse grained, non intact		$\nabla_2$
			D	35)	14/09/1999:6.80m 14/09/1999:	76.73	12.00	Complete at 12.00m		_
						(<				0
			(di	59)		(				6
emarks				35)				Scal (appro 1:50 Figur	NBI	