

	British Geological Survey NATURAL ENVIRONHENT RESEARCH COUNCIL							Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade	Borehole Number M34				
Machine: Flush :			Casing	Diamete	er		Level (mOD) 63.54	Client Highways Agency	Job Number F11451				
Core Dia: Method:	mm		Locatio		E 373231.68 N		//09/1999- //09/1999	Engineer WSP Environmental Ltd	Sheet 1/3				
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend A				
0.00-0.40 0.40-0.80 0.80-1.25	29	0	0	98	D01 0 blows D02 0 blows 1,1/1,1,1,1 SPT N=4	63.44	(0.70)	TOPSOIL. MADE GROUND: Light brownish grey slightly sandy medium and coarse angular gravel sized fragments of limestone. MADE GROUND: Brown very sandy clay with some fine and medium angular and subangular gravel sized fragments of sandstone, mudstone and quartz.					
1.25 2.00-2.45 2.45 3.00-3.45	100	0	0	98	1,1/2,3,3,4 SPT N=12 2,3/3,4,4,4 SPT N=15			from 1.85m to 2.00m mudstone boulderfrom 2.00m becomes orangish brown mottled grey with much fine to coarse angular to rounded gravel sized fragments of mudstone sandstone, quartz, siltstone and coal					
3.45 4.00-4.45 4.45	22	0	0	98	2,2/4,5,6,5 SPT N=20		(7.20)						
5.00-5.45 5.45	54	0	0	98	2,3/4,4,7,6 SPT N=21								
6.00-6.42 6.41	45	0	0	98	2,11/33,11,3,3 SPT 50/265			at 6.00m sandstone cobble					
7.00-7.45 7.45	100	0	0	98	1,3/5,2,2,2 SPT N=11								
8.00-8.45 8.45	38	0	0	98	1,2/4,4,4,5 07/09/1999:0.00m 08/09/1999: SPT N=17	55.54	8.00	MADE GROUND: Dark grey sandy clay with much fine to coarse angular to rounded gravel sized fragments of sandstone, quartz, mudstone and siltstone.					
9.50-9.95 9.95	50	0	0	98	3,3/4,6,7,7 SPT N=24		(3.00)	from 9.50m becomes brown with occasional sandstone cobbles					
Remarks		ated to 0.	80m. 2. E	Borehole	complete at 23.00m.	3. Boreho	le backfilled v	Scale (approx 1:50 Figure	NBR				



	British Geologic			ıı				Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade	Boreho Numbe M34	er
Machine: Flush :			Casing	Diamete	er		Level (mOD) 63.54	Client Highways Agency	Job Numbe F1145	
Core Dia: m	nm		Locatio		E 373231.68 N	Dates 07/09/1999- 08/09/1999		Engineer WSP Environmental Ltd	Sheet 2/3	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
11.00-11.45	97	0	0	98	1.2/3.4,4,6 SPT N=17	52.54		MADE GROUND: Orangish brown and grey mottled slightly sandy clay with occasional to some fine and medium	(
11.45								subangular to rounded gravel sized fragments of mudstone and quartz.		
12.50-12.95	79	0	0	98	2,2/3,3,4,4 SPT N=14		(3.13)	(BCS)		
12.95							=			
14.00-14.38	45	21	0	99	7,11/11,16,23,0 SPT 50/225	49.41	14.13	Grey thinly laminated subhorizontal very thinly and thinly		
14.37 14.40			0			(<		bedded subhorizontal moderately weathered MUDSTÓNE, weak and very weak with very closely and closely spaced subhorizontal fractures open smooth planar and irregular. (Coal Measures)from 14.30m to 14.40m non intact	(s	
15.50-15.87	69	0	0	25	6,8/14,19,17,0 SPT 50/220		(2.87)	from 15.50m to 15.85m non intact		
15.87	87	67	38	11				from 15.85m with extremely closely spaced random fractures tight smooth irregular		
17.00-17.16 17.15			0	3	3,23/50,0,0,0 SPT 26*/115 50/40	46.54	17.00	Light grey thinly laminated subhorizontal thinly bedded and medium bedded subhorizontal slightly weathered fine grained SANDSTONE, moderately strong and strong with very closely and closely spaced subhorizontal fractures open rough irregular and planar and medium spaced inclined fractures open rough irregular. (Coal Measures)		
18.10	72	36	6	99	_			,		
18.50			0	19		45.09	18.45	Grey thinly laminated subhorizontal very thinly and thinly bedded subhorizontal moderately to slightly weathered fossiliferous MUDSTONE, very weak and weak with very closely and closely spaced subhorizontal fractures open smooth planar. (Coal Measures)from 18.50m to 19.32m moderately weathered non interest.		
19.32 20.00	96	31	15	0			(2.10)	intact		
Remarks			6	35)				Scale (approx 1:50 Figure	NBR	d



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Machine: Hush :			Casing	Diamete	er	Ground Level (mOD) 63.54		Client Highways Agency		r
Core Dia: mm Method : Depth (rh) TCR SCR			Locatio		E 373231.68 N	Dates 07/09/1999- 08/09/1999		Engineer WSP Environmental Ltd		_
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
3)			0	99 25				from 20.23m to 20.50m moderately weathered non		
).35).50	42	21	0	10	_	42.99	(0.65)	Dark grey thinly laminated subhorizontal very thinly bedded subhorizontal moderately weathered carbonaceous MUDSTONE, very weak with extremely closely spaced subhorizontal and random fractures tight smooth planar and		
1.50			0	99	_	42.34	(0.55)	Black moderately to highly weathered COAL, very weak with extremely closely spaced subhorizontal and subvertical fractures tight and open smooth planar. (Coal Measures)		
.75 2.00			0	97		41.79	21.75 	Soft to firm dark grey CLAY with much fine to coarse subangular and subrounded gravel of mudstone and coal. (Workings?) (Coal Measures)		
2.75 2.80			0	99	=	40.79		Light grey very thinly bedded subhorizontal moderately		
1.80					08/09/1999:12.70m 08/09/1999:	40.54		Light grey very thinly bedded subhorizontal moderately weathered very sithy MUDSTONE, very weak and weak with very closely spaced subhorizontal fractures open smooth planar and curviplanar. (Seatearth?) (Coal Measures)		
								Complete at 23.00m		
									(8	
			0	55)						
temarks							<u> </u>	Scale (approx)	Logged	1
								1:50 Figure	NBR	_