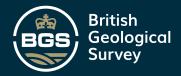


MADE GROUND Greyish brown early clay with some fine and stock flagments of lime store).		British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL							Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade	Borehole Number M29B
Name				Casing	Diamete	r				Number
MADE GROUND Greyish brown early clay with some fine and stock flagments of lime store).		Geological Survivant Residence: Ish : Ishe Dia: mm Pethod : In Depth TCR SCR In O O In O				24/08/1999-			Sheet	
10	Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Nate
96.20 8.20 (7.36) WADE GROUND: Limestone backfill. (Driller's description) 9.00 27 0 98 2408-1999 0.00m 94.40 90 94.40 94.4	35)						(¿	(0.90)	MADE GROUND: Greyish brown sandy clay with some fine and medium angular gravel sized fragments of limestone, sandstone and mudstone.	(8)
9.00 24/08/1999: 00m 25/08/1999: 00m 25/08/1999: 00m 3. Borehole complete at 21.00m. 4. Borehole backfilled with grout. Scale (approx) NBR							102.50	0.90		
9.00 24/08/1999.0.00m 25/08/1999. 24/08/1999.0.00m 25/08/1999. 24/08/1999. 34.40 9.00 MADE GROUND: Limestone backfill. (Driller's description) MADE GROUND: Brown sandy clay with much fine to coarse angular to subrounded gravel fragments of sandstone, mudstone, quartz, coal and limestone. Remarks 1. Inspection pit accavated to 0.90m. 2: Borehole openholed to 9.00m. 3. Borehole complete at 21.00m. 4. Borehole backfilled with grout. Scale (approx) Scale (approx) 1.50 NBR				0	55)				(BCS)	
9.00 24/08/1999:0.00m 25/08/1999: 27 0 0 98 Remarks 1. Inspection pit excavated to 0.90m. 2. Borehole openholed to 9.00m. 3. Borehole complete at 21.00m. 4. Borehole backfilled with grout. Scale (approx) 1:50 NBR	55)	10	0	O	98			(7.30)		(8)
9.00 24/08/1999:0.00m 25/08/1999: 27 0 0 98 Remarks 1. Inspection pit excavated to 0.90m. 2. Borehole openholed to 9.00m. 3. Borehole complete at 21.00m. 4. Borehole backfilled with grout. Scale (approx) 1:50 NBR				(al	50)				(BCS)	
Remarks 1. Inspection pit excavated to 0.90m. 2. Borehole openholed to 9.00m. 3. Borehole complete at 21.00m. 4. Borehole backfilled with grout. Scale (approx) 1:50 NBR	55)						95.20	EGN	MADE GROUND: Limestone backfill. (Driller's description)	C
Remarks 1. Inspection pit excavated to 0.90m, 2. Borehole openholed to 9.00m, 3. Borehole complete at 21.00m, 4. Borehole backfilled with grout. Scale (approx) By NBR	9.00				65		94.40	9.00	MADE GROUND: Brown sandy clay with much fine to coarse angular to subrounded gravel fragments of sandstone, mudstone, quartz, coal and limestone.	
5.Marker Post Ref 226/9 +15N. 1:50 NBR	Remarks					openholed to 9 00-	3 Boroka	ole complete a	st 21 00m. 4. Rorahola hackfilled with arout.	Logged
	5.Marker Po	ost Ref 226	4150. 19 +15N.	JUIII, Z. E	oreliole.	opennoied to alvum.	o, porenc	ve combiete s		
									1:50 Figure	



	iritish Geologica		-					Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade		Boreho Numbe M29E	r
Machine: Casing Diameter				er Ground Level (mOD)			Client			_	
Flush : Core Dia: mm Location			103.40		03.40	Highways Agency		Number F11451			
				Dates		Engineer		Sheet	\dashv		
Method :			445315.41 E 365300.85 N			24/08/1999- 26/08/1999		WSP Environmental Ltd		2/3	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Ł	.egend	Water
61										7	
,					1,2/2,3,3,3	(0					
0.50-10.95					SPT N=11		(3.35)				
0.95					_						
							= = =				
	100	44	11	98			<u>-</u> -				
12.00-12.45					1,1/2,2,3,3 SPT N=10						
						91.05	12.35	Firm grey indistinctly thinly laminated slightly sandy CLA	v		
12.45			0	10			(0.71)	with much fine and medium subangular mudstone lithorelicts. (Completely Weathered Mudstone) (Coal			
3.06					-	90.34	13.06	Measures) Grey thinly cross laminated subhorizontal very thinly			
	100	27	0	25	35 0/50 0 0 0		(0.44)	bedded subhorizontal slightly weathered fine and mediu grained SANDSTONE, moderately weak to moderately			
3.50-13.54 3.54					25,0/50,0,0,0 SPT 25*/20 50/20	89.90	13.50	strong with very closely and closely spaced subhorizont fractures open rough planar. (Coal Measures) from 13.20m vertical open rough irregular iron	al		
			0	24			(0.70)	stained fracture			
4.20					-	89.20	14.20	Grey thinly laminated subhorizontal medium bedded subhorizontal highly weathered MUDSTONE, very weak with extremely closely spaced random fractures tight	\dagger		
	88	34	0	9		10		smooth irregular clay smeared. (Coal Measures) Grey thinly laminated subhorizontal very thinly			
00.45.00					25,0/50,0,0,0 SBT 35*/40		(1.26)	subhorizontal moderately weathered medium grained SANDSTONE, weak locally moderately weak with very			
5.00-15.02 5.02			0	25	SPT 25*/10 50/10			closely spaced subhorizontal fractures open rough plan and closely spaced subvertical fractures open rough irregular iron stained. (Coal Measures)	ar		
5.46					_	87.94	15.46	from 15.00m fractures become closely and very closely spaced			
								Grey thinly laminated subhorizontal thinly and very thinly bedded subhorizontal highly weathered MUDSTONE, w	eak		
	39	0	0	99			-	with extremely closely spaced random fractures tight smooth irregular clay smeared. (Coal Measures)			
3.50-16.85					8,8/17,18,15,0 SPT 50/200		<u>-</u>	from 16.50m to 18.00m non intact (possible			
3.85			16		-		<u>-</u>	workings)			
							(3.29)				
	39	0	0	25							
					7,9/15,14,21,0						
					25/08/1999:9.27m						
8.00-18.35 8.35			0	99	25/08/1999: SPT 50/200 25/08/1999:0.00m			from 18.50m dark grey carbonaceous mudstone,			
8.50 8.75			0	97	26/08/1999:	84.65	18.75	very weak non intact (workings)	+	+	5
	88	0	0	25			(0.75)	No recovery. (Workings?)			
0 50 10 50		-			25,0/50,0,0,0 SDT 35*/20	83.90	19.50				
9.50-19.55 9.55					SPT 25*/20 50/30			Black vitreous moderately weathered COAL weak with extremely closely spaced subhorizontal and subvertical fractures tight smooth planar. (Coal Measures)			
Remarks							_		ale	Longer	-
								(app	ale rox)	Logged By	•
									50	NBR	_
								Fig	jure No		



				IL.				Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade		ehole nber 198	
Machine: Casing Diameter Flush :			er	Ground Level (mOD 103.40		Client Highways Agency	Job Number F11451				
ethod:	ia: mm i : th TCR S		Locatio		E 365300.85 N	24/08/1999-		Engineer WSP Environmental Ltd	Sheet 3/3		
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Lege	Water	
			0	98			(1.45)				
).95					26/08/1999:9.25m 26/08/1999:	82.45 82.40 -	20.95	Very stiff grey extremely closely fissured fossiliferous si CLAY. (Completely Weathered Seatearth) Complete at 21.00m	ty	=	
			(B)	55)							
emarks				91			= = = = =	Sc (app			
								1:	0 NE ure No.	i K	