
 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL						Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade		Borehole Number M22					
Machine:		Casing Diameter				Ground Level (mOD) 133.57		Client Highways Agency		Job Number F11451			
Flush :		Location 445476.92 E 356069.19 N				Dates 03/09/1999-04/09/1999		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			
0.10-0.70	73	23	0	12	D01 0 blows	133.47	0.10	TOPSOIL.					
										(0.60)	MADE GROUND: Light brownish grey slightly sandy medium and coarse angular gravel sized fragments of limestone.		
0.70-0.80 0.80-1.25	47	0	0	99	2,2/8,12,13,14 D02 0 blows SPT N=47	132.87	0.70	Grey thinly laminated subhorizontal very thinly bedded subhorizontal moderately weathered MUDSTONE, weak and very weak with very closely spaced subhorizontal fractures open smooth planar and medium spaced inclined fractures tight smooth irregular. (Coal Measures)					
1.25													
2.15 2.20 2.00-2.15 2.40 2.45	100	0	0	25	6,19/50,0,0,0 03/09/1999:0.00m		(4.40)	---from 2.60m to 3.00m moderately weathered with extremely closely spaced random fractures tight smooth irregular clay smeared					
3.00-3.13 3.13	100	36	22	25	10,15/50,0,0,0 SPT 25"/100 50/30			---from 4.15m to 4.20m firm grey clay with some fine to coarse angular gravel of mudstone ---from 4.20m with extremely closely spaced random fractures tight smooth irregular clay smeared					
4.15 4.20-4.54	96	52	25	97	4,9/14,20,16,0 SPT 50/185			Dark grey thinly laminated subhorizontal thinly bedded subhorizontal slightly weathered carbonaceous MUDSTONE, weak and moderately weak with closely spaced subhorizontal fractures open smooth planar. (Coal Measures) ---from 5.45m to 5.50m black clay with much fine and medium angular and subangular gravel of coal and mudstone ---from 5.60m to 5.70m subvertical fracture open rough irregular					
4.53													
5.10	80	52	27	99		128.47	5.10	Grey thinly and medium bedded subhorizontal slightly weathered fossiliferous MUDSTONE, weak and very weak with closely spaced subhorizontal to inclined fractures open rough irregular. (Seatearth?) (Coal Measures) ---from 6.20m to 6.60m with some medium and coarse rounded quartz gravel inclusions					
5.45 5.50 5.60 5.75											(0.80)		
6.60	97	93	43	0		127.67	5.90	Grey thinly laminated subhorizontal thinly bedded subhorizontal highly weathered MUDSTONE, very weak with extremely closely spaced random fractures open smooth irregular clay smeared. (Coal Measures) Dark grey and black slightly clayey fine to coarse angular GRAVEL of mudstone and coal. (Workings?) (Coal Measures)					
6.95											(0.70)		
7.30	97	93	43	0		126.97	6.60	Light grey thinly laminated subhorizontal medium bedded subhorizontal slightly weathered fine grained SANDSTONE, moderately weak with closely and medium spaced subvertical fractures open rough planar and medium spaced subhorizontal fractures open rough planar. (Coal Measures) Soft grey CLAY with much fine to coarse angular and subangular gravel of sandstone. (Possible Workings) (Coal Measures) ---from 8.53m to 9.30m no recovery					
7.95											(0.35)		
8.31	97	93	43	0		126.62	6.95	Light grey thinly and medium bedded subhorizontal to					
8.53											(0.35)		
9.30 9.35	97	93	43	0		126.27	7.30						
											(1.01)		
	97	93	43	0		125.26	8.31						
											(0.99)		
	97	93	43	0		124.27	9.30						
Remarks						Scale (approx) 1:50						Logged By NBR	
1. Inspection pit excavated to 0.80m. 2. Borehole complete at 12.30m. 3. Borehole backfilled with arisings. 4. Marker Post Ref 217/4 +50N.						Figure No.							



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Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description			Legend	Water	
10.30								inclined (5° to 20°) slightly weathered SILTSTONE, weak and moderately weak with medium spaced subhorizontal to inclined fractures open smooth planar and widely spaced subvertical fractures open rough planar. (Coal Measures)					
			0	7			(2.45)						
11.25								—from 11.55m to 11.75m becomes dark grey thinly laminated subhorizontal					
					04/09/1999:0.00m	121.82	11.75	Light grey medium bedded subhorizontal slightly weathered SANDSTONE, moderately strong with fine and medium spaced subhorizontal fractures open smooth planar and closely spaced subvertical fractures open rough irregular. (Coal Measures)					
					04/09/1999:0.00m	121.27	12.30	Complete at 12.30m					
Remarks												Scale (approx) 1:50	Logged By NBR
												Figure No.	