
 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL							Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade		Borehole Number M44	
Machine: Flush : Core Dia: mm Method :			Casing Diameter		Ground Level (mOD) 109.74		Client Highways Agency		Job Number F11451	
			Location 445309.25 E 366030.54 N		Dates 19/08/1999- 20/08/1999		Engineer WSP Environmental Ltd		Sheet 1/2	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10-0.25 0.25-0.40 0.40-0.60	16	0	0	98	D01 0 blows D02 0 blows D03 0 blows	109.64	0.10 (0.70)	TOPSOIL. MADE GROUND: Reddish brown sandy clay with much fine to coarse angular gravel sized fragments of mudstone, sandstone and limestone.		
0.60-0.70 0.70-0.80 0.80 0.95			0	97	D04 0 blows D05 0 blows	108.94	0.80	MADE GROUND: Orangish brown sandy and very sandy clay with some to much fine to coarse subangular to rounded gravel of sandstone and mudstone.		
1.70-1.85 1.85 1.95	12	0	0	98	25,0/25,0,0,0 SPT 25'/75 25/75		(1.90)			
			0	97						
2.70-3.08	100	67	0	25	1,1/2,2,50,0 SPT 54/225	107.04	2.70	Grey thinly laminated subhorizontal highly weathered MUDSTONE, very weak with extremely closely spaced random fractures open and tight, smooth irregular with clay smearing. (Coal Measures)		
3.07	100	67	36	25						
3.60-3.75 3.75					25,0/25,0,0,0 SPT 25'/75 25/75		(1.90)	---from 3.70m becomes very silty		
	100	0	0	25						
4.60-4.75 4.75					25,0/25,0,0,0 SPT 25'/75 25/75	105.14	4.60 (1.00)	Grey thinly laminated subhorizontal highly to completely weathered fine and medium grained SANDSTONE, very weak with extremely closely spaced subhorizontal and subvertical fractures tight rough planar and occasionally clay smeared. (Coal Measures)		
	100	0	0	25						
5.60-5.75 5.75			0	98	25,0/25,0,0,0 SPT 25'/75 25/75	104.14	5.60 (0.55)	Black highly weathered COAL very weak. (Coal Measures)		
6.15	100	0	0	98	25,0/25,0,0,0 SPT 25'/75 25/75	103.59	6.15 (1.45)	Very stiff grey extremely closely fissured fossiliferous CLAY. (Completely Weathered Seat earth) (Coal Measures)		
6.60-6.75 6.75					25,0/25,0,0,0 SPT 25'/75 25/75					
	100	0	0	25						
7.60-7.75 7.75					25,0/25,0,0,0 SPT 25'/75 25/75	102.14	7.60	Grey thinly laminated subhorizontal very thin and thinly bedded subhorizontal highly weathered MUDSTONE, weak locally very weak, with extremely closely spaced subhorizontal and inclined fractures smooth planar tight clay smeared. (Coal Measures)		
	100	0	0	25						
8.75					25,0/25,0,0,0 19/08/1999: 3.60m					
8.60-8.75			0	25	20/08/1999: SPT 25'/75 25/75					
9.60	100	0	0	25						
Remarks 1. Inspection pit excavated to 0.80m. 2. Borehole complete at 15.00m. 3. Borehole backfilled with grout. 4. Marker Post Ref 227/7 -63S.								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
10.10-10.23					25.0/25.0,0,0 SPT 25*/75		(4.90)			
10.22			0	2	25/50			---from 10.35m to 10.50m moderately weathered		
10.35			0	25						
10.50	86	50	0	0						
10.90			0	2						
11.04			0	25				---from 11.04m to 11.20m moderately weathered		
11.20	100	66	45	25						
11.60-11.77					25.0/25.0,0,0 SPT 25*/70					
11.77			0	11	25/100					
12.10								---from 12.10m becomes moderately weak with closely spaced subhorizontal fractures, tight planar smooth clay smeared		
	100	90	20	12		97.24	12.50	Grey thinly cross laminated subhorizontal thinly bedded subhorizontal moderately to highly weathered SILTSTONE, moderately weak to moderately strong with very closely and closely spaced subhorizontal fractures tight smooth planar. (Coal Measures)		
13.10-13.23					25.0/25.0,0,0 SPT 25*/75		(0.70)			
13.22			0	9	25/50		13.20	Dark grey thinly laminated subhorizontal highly weathered very silty MUDSTONE, weak locally moderately weak with closely and medium spaced subhorizontal fractures tight smooth planar and medium spaced subvertical fractures open smooth planar. (Coal Measures)		
14.10							(1.80)			
	100	92	25	7				---from 14.28m to 14.30m brown ironstone band, strong		
14.60-14.68					25.0/25.0,0,0 SPT 25*/75					
14.67					25/0					
					20/08/1999:10.20m	94.74	15.00	Complete at 15.00m		
					20/08/1999:					
Remarks								Scale (approx) 1:50	Logged By NBR	
								Figure No.		