

(222)	British Geologica NATURAL ENVIRO			50				Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade	Bore Numb M4	ber
Machine:			Casing	Diamete	er		Level (mOD) 06.75	Client Highways Agency	Job Numi F114	
Core Dia: r Wethod :	re Dia: mm thod:			Location 445402.53 E 367230.14 N			/08/1999	Engineer WSP Environmental Ltd	Shee	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legen	Mater
0.20-0.50 0.50-0.80 0.80-1.25	100	0	0	98	D01 0 blows D02 0 blows 1,3/2,2,3,3 SPT N=10	106.55 106.15	(0.40)	TOPSOIL. MADE GROUND: Light brown clayey slightly sandy fine to coarse angular gravel sized fragments of limestone. MADE GROUND: Brown very sandy clay with some fine to coarse angular to subrounded gravel sized fragments of sandstone, mudstone, quartz and brick.		
1,25 2.00-2.45	100	0	0	98	1,2/2,3,3,4 SPT N=12	105.50	1.25	MADE GROUND: Light brown mottled grey and orange sandy clay with occasional fine angular gravel sized fragments of mudstone, sandstone and quartz. from 1.85m to 1.88m with much coarse gravel from 2.15m becomes light grey and light brown		
2.45 3.00-3.45 3.45	100	0	0	98	4,3/4,6,6,7 SPT N=23	103.75	3.00	MADE GROUND: Light grey very clayey fine to coarse subangular to rounded gravel sized fragments of mudstone, sandstone, quartz and coalfrom 3.20m with much mudstone cobbles		_
1.00-4.40	13	11	0	97	3,6/11,15,13,11 SPT 50/245	102.75	4.00	COAL. (No recovery - Driller's description)		
5.00-5.15 5.14	85	60	14	10	13,12/50,0,0,0 SPT 25*/95 50/50	102.20	(0.55)	Grey thinly laminated subhorizontal very thinly bedded moderately weathered MUDSTONE, very weak and weak with very closely spaced subhorizontal fractures open smooth planar clay smeared. (Coal Measures) Grey thinly laminated very thinly and thinly bedded		
3.00-6.09	100	88	10	17	24,0/50,0,0,0 - SPT(C) 24*/45		(1.15)	subhorizontal slightly and moderately weathered fine grained SANDSTONE, moderately weak with very closely and closely spaced subhorizontal fractures open smooth planar iron stained and medium spaced inclined fractures open rough irregular. (Coal Measures)		
3.80 3.80	97	40	0	99	50/40	100.50 99.95	(0.55)	Grey thinly laminated subhorizontal very thinly bedded subhorizontal slightly weathered sithy MUDSTONE, weak and moderately weak with very closely and closely spaced subhorizontal fractures open smooth planar iron stained. (Coal Measures)		_
3.90 7.06 7.00-7.06 7.50	82	49	0	25	25,0/50,0,0,0 Moderate(1) at 7.00m, sealed at 100000.00m. SPT(C) 25*/30 50/30	99.68 99.50	(0.27) 7.97 (0.18) 7.25	Dark grey thinly laminated subhorizontal very thinly bedded subhorizontal slightly weathered fossiliferous fine grained SANDSTONE, moderately weak with very closely spaced subhorizontal fractures open rough planar. (Coal Measures)		
i.00-8.09 i.08 i.20	98	56	9	99 25	25,0/50,0,0,0 SPT(C) 25*/50 50/35		(1.50)	Light grey medium bedded subhorizontal fine grained slightly weathered SANDSTONE, strong. (Coal Measures) Grey thinly laminated subhorizontal very thinly bedded subhorizontal moderately to highly weathered MUDSTONE, very weak with very closely and extremely closely spaced		
3.75	100	88	49	3	25,0/50,0,0,0 Heavy(2) at 9.30m,	98.00 97.45	8.75 (0.55) 9.30	subhorizontal and vertical fractures tight smooth planar and irregular, clay smeared. (Coal Measures) Grey thinly cross laminated subhorizontal thinly bedded subhorizontal moderately to slightly weathered SILTSTONE, weak, and moderately weak with closely and medium spaced subhorizontal and vertical fractures open smooth and rough planar. (Coal Measures)		∇
9.50-9.58 9.58			0	25	sealed at 100000.00m. SPT(C) 25*/45 50/35			Grey thinly cross laminated subhorizontal medium bedded subhorizontal slightly weathered fine and medium SANDSTONE, moderately weak with medium spaced subhorizontal fractures open rough planar. (Coal Measures)		
Remarks I. Inspectio	n pit excava	ated to 0.	80m. 2. E	Borehole	complete at 12.35m.	3. Boreho	le backfilled w	Scale (approx) 1:50	Logg By	
								Figure		



British Geological Survey NATURAL ENTIRONMENT RESEARCH COUNCIL							Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade	Borehole Number M43		
Machine: Flush : Core Dia: mm Method :			Casing	Diamete	er	Ground Level (mOD) 106.75		Client Highways Agency	Job Number F11451	
			Location 445402.53 E 367230.14 N			Dates 25/08/1999		Engineer WSP Environmental Ltd	Sheet 2/2	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	
10.20 10.50 11.05-11.10 11.10	78	70	0 0	5 3 25	25,0/50,0,0,0 SPT 25*/20 50/30	95.50	(1.95)	from 10.20m to 10.40m fractures become extremely closely spaced subhorizontal and vertical open rough irregular clay smearedfrom 10.40m to 10.50m thinly laminated highly weathered mudstone, very weak with extremely closely spaced random fractures tight irregular clay smeared Grey thinly and very thinly bedded subhorizontal moderately to highly weathered MUDSTONE, very weak with closely and very closely spaced random fractures tight	(0)	
12.35-12.41			0	55)	25,0/50,0,0,0 25/08/1999:7.50m SPT 25*/25 50/30	94.40	(1.10)	smooth irregular clay smeared. (Coal Measures) Complete at 12.35m		
						(«			(e	
				50)		((e	
Remarks				35)				Scale (approx	NBR	