

NATURAL ENVIRONMENT RESEARCH COUNCIL Rachine: Casing Diameter G						Ground Level (mOD)		Client	M24	
Flush : Core Dia: mm Method :			Location 444914.36 E 359017.54 N			158.90 Dates 06/09/1999- 07/09/1999		Highways Agency Engineer WSP Environmental Ltd	Number F11451	
									Sheet 1/2	
-0.80	32	0	0	98	D01 0 blows	158.70	(0.20)	TOPSOIL. MADE GROUND: Orangish brown mottled grey very sandy clay with much fine to coarse angular and subangular gravel sized fragments of mudstone, siltstone, quartz and coal.	- (e	
1.00 2.05	54	0	0	98	1,1/2,4,5,4 SPT N=15					
-3.05	100	0	0	98	1,2/2,4,4,4 SPT N=14					
4.15	100	0	0	98	2,2/2,4,4,4 SPT N=14		(7.90)	from 4.05m to 4.60m sandstone boulder		
5.05	100	0	0	98	1,3/6,5,8,11 SPT N=30			from 4.60m becomes light brown mottled orange and black	(3	
3.05	100	0	0	98	1,4/4,6,9,10 SPT N=29					
7.05	100	0	0	98	2,2/4,4,4,6 SPT N=18 12,8/4,6,7,8 06/09/1999:0.00m					
7.85	71	0	О	98	07/09/1999: SPT N=25			from 7.40m with much sandstone cobbles		
8.65	100	0	0	98	5,12/11,11,9,12 SPT N=43	150.80		Stiff brown mottled orange and grey indistinctly thinly laminated slightly sandy CLAY with occasional fine subangular lithorelicts of mudstone. (Completely Weathered Mudstone) (Coal Measures)		
-9.40	91	35	0	99	7,18/50,0,0,0 SPT 50/50	149.45	(1.35)			
0			0	99				Grey and brown thickly interlaminated and very thinly interbedded moderately and highly weathered fine and medium grained SANDSTONE, weak and MUDSTONE, very weak with extremely closely spaced random fractures		
narks	n pit excave	ited to 1	00m 2 F	larehole	complete at 15 00m	3. 50mm	diameter etan	dpipe installed at 15.00m. 4. Marker Post Ref Scale (approx	Logged	
1spectio 16 N.	m pre excava	IU 1.	oun, Z. E	,5,61018	complete at 10.00M.	o, Junin	alameter Stdff	approx 1:50) By NBR	
								Figure		



	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL						Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade	Borehole Number M24		
Machine: Flush :	lush :			Casing Diameter			rel (mOD) 30	Client Highways Agency	Job Number F11451	
Core Dia: mm Method :			Location 444914.36 E 359017.54 N			Dates 06/09/1999- 07/09/1999		Engineer WSP Environmental Ltd	Sheet 2/2	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD) (Th	Depth (m) lickness)	Description	Legend 5	Marci
10.20 10.35 10.50 10.68 11.18 11.50 12.00 12.50 13.80 14.06	94	0 66	0 0 0 0 0 0 0 0 0 0 0 0	25 99 0 8 25 25 0 25 1	07/09/1999:14.10m 07/09/1999:	148.22	(1.23) 10.68 (0.50) 11.18 (2.32) 13.50 (1.50)	tight smooth planar and very closely spaced subhorizontal fractures open rough planar. (Coal Measures)from 10.20m to 10.35m carbonaceous mudstone Light grey very thinly and thinly bedded subhorizontal moderately weathered fine grained SANDSTONE moderately weak with very closely spaced subhorizontal and subvertical fractures open rough irregular with some clay smearing. (Coal Measures) Light grey thinly laminated subhorizontal very thinly and thinly bedded subhorizontal highly weathered MUDSTONE, very weak with extremely closely spaced random fractures tight smooth irregular and very closely spaced subhorizontal fractures open smooth curviplanar. (Coal Measures) Grey thinly cross laminated subhorizontal thinly and medium bedded subhorizontal slightly weathered SILTSTONE, moderately weak to moderately strong with medium and closely spaced subhorizontal fractures open smooth curved with occasional orange iron staining. (Coal Measures) from 13.80m to 14.06m light grey thinly laminated subhorizontal moderately weathered mudstone, very weak with extremely closely spaced random fractures open smooth irregular with clay smearing Complete at 15.00m		
Remarks								Scale (approx)	Logged By	
								1:50 Figure	NBR No.	_