
 <b>British Geological Survey</b> NATURAL ENVIRONMENT RESEARCH COUNCIL						<b>Site</b> M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI-CONTRACT 2			<b>Borehole Number</b> RC1225	
<b>Machine:</b> <b>Flush :</b> <b>Core Dia: mm</b> <b>Method :</b>		<b>Casing Diameter</b> 140mm cased to 1.50m		<b>Ground Level (mOD)</b> 118.00		<b>Client</b> Highways Agency		<b>Job Number</b> WAL060099		
		<b>Location</b> 445301 E 367033 N		<b>Dates</b> 25/10/2006-26/10/2006		<b>Engineer</b> Arup		<b>Sheet</b> 1/3		
<b>Depth (m)</b>	<b>TCR</b>	<b>SCR</b>	<b>RQD</b>	<b>FI</b>	<b>Field Records</b>	<b>Level (mOD)</b>	<b>Depth (m) (Thickness)</b>	<b>Description</b>	<b>Legend</b>	<b>Water</b>
0.00	PIT		0	0	Groundwater was not apparent during boring(1) at 0.00m.			Inspection Pit		V1
	OH		0	0			(1.20)			
1.20	71	48	32	0		116.80	1.20 (0.30)	Open Hole		
1.50			0	0		116.50	1.50 (0.30)	Recovered as grey CLAY with subangular to subrounded fine and medium lithorelics of very weak mudstone.		
1.80						116.20	1.80 (0.55)	Weak thinly to thickly laminated black carbonaceous MUDSTONE Fractures are horizontal, closely spaced, tight, planar and smooth		
	100	100	63	0		115.65	2.35	Weak to moderately weak, thinly to thickly laminated light and dark grey MUDSTONE with occasional thin laminae of grey siltstone. Fractures are horizontal, very closely to closely spaced, open undulating and rough with occasional iron staining on surface. Subvertical fractures are incipient, tight, planar and rough with iron staining on surface.		
2.90-2.98					25/50 SPT 25'/75					
2.90					50/5					
3.25					P1					
	90	67	46	0				Between 3.50 and 3.80m; becoming weak.		
4.50-4.59					25/50 SPT 25'/75					
4.50			0	0	50/12					
4.95-5.19					U2		(5.25)			
4.85	90	48	35	0						
6.00-6.16					25/37.50 SPT 25'/75					
6.00	100	100	55	0	87/89					
7.50			0	0		110.40	7.60	Between 7.50 and 7.60m; moderately weak thinly to thickly laminated black carbonaceous mudstone		
8.05					U3			Moderately weak thinly to thickly laminated grey SILTSTONE with occasional bands of subangular, medium to coarse gravel sized fragments of ironstone. Fractures are horizontal, very closely to closely spaced, generally tight, planar and smooth.		
8.30-8.60	93	77	44	0				At 7.90m; 45 degree fracture, open, planar and slightly rough		
					25/50 SPT 25'/75			At 8.80m 45 degree fracture, open, planar and slightly rough, heavily iron stained		
9.00-9.11					50/35					
9.00					P4					
9.20	87	0.8	60	0			(4.40)	Between 9.50 and 9.70m; recovered not intact		
<b>Remarks</b>								<b>Scale (approx)</b>	<b>Logged By</b>	
								1:50	SM	
								<b>Figure No.</b>		

[illegible]



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<b>Boring Method</b> Cable Percussion		<b>Casing Diameter</b> 140mm cased to 1.50m		<b>Ground Level (mOD)</b> 118.00		<b>Client</b> Highways Agency			<b>Job Number</b> WAL060099	
		<b>Location</b> 445301 E 367033 N		<b>Dates</b> 25/10/2006- 26/10/2006		<b>Engineer</b> Arup			<b>Sheet</b> 3/3	
<b>Depth (m)</b>	<b>Sample / Tests</b>	<b>Casing Depth (m)</b>	<b>Water Depth (m)</b>	<b>Field Records</b>	<b>Level (mOD)</b>	<b>Depth (m) (Thickness)</b>	<b>Description</b>	<b>Legend</b>	<b>Water</b>	
19.15-19.43	U8			26/10/2006: 26/10/2006: 26/10/2006:	97.85	(3.25) 20.15	Complete at 20.15m Complete at 20.15m	xxxxxx		
<b>Remarks</b>										
								<b>Scale (approx)</b> 1:50	<b>Logged By</b> SM	
								<b>Figure No.</b>		