
 <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> <b>RC1203</b>	
<b>Machine:</b> <b>Flush :</b> <b>Core Dia: mm</b> <b>Method :</b>		<b>Casing Diameter</b> 140mm cased to 4.00m		<b>Ground Level (mOD)</b> 176.90		<b>Client</b> Highways Agency		<b>Job Number</b> WAL060099		
		<b>Location</b> 444819 E 360670 N		<b>Dates</b> 18/10/2006- 19/10/2006		<b>Engineer</b> Arup		<b>Sheet</b> 1/2		
<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						175.70	1.20	Open Hole. See CP1203 for likely material description.		
	100	43	0	0			(2.80)			
4.00						172.90	4.00	Very weak thinly to thickly laminated dark grey brown and Between 4.00m and 4.25m; recovered as a stiff mottled grey, orange brown slightly sandy clay. orange MUDSTONE. Locally a stiff grey brown clay. Fractures are subhorizontal, very closely to closely spaced, generally tight, planar and smooth with black and dark red brown staining penetrating throughout rock.		
5.50-5.64 5.50					25/50 SPT 25'/75 50/66			Between 5.00m and 5.50m; recovered as a stiff mottled grey, orange brown slightly sandy clay with occasional very weak fine lithorelics of mudstone.		
	100	87	0.3	0			(4.80)			
6.90 7.00 7.00-7.15					25/50 SPT 25'/75 P1 18/10/2006:			Below 7.00m; predominantly grey.		
	100	97	0.4	0	18/10/2006: 50/70 18/10/2006:			Between 7.50m and 8.00m; with subvertical indistinctly spaced fractures, tight, planar and smooth with ironing staining penetrating up to 20mm.		
			0	0						
8.50 8.80			0	0		168.10	8.80	Very weak thinly to thickly laminated dark grey black carbonaceous MUDSTONE. Fractures are subhorizontal, very closely to closely spaced, generally tight, planar and smooth.		
			0	0			(0.70)			
9.35	100	100	43	0		167.40	9.50	From 9.35m to 9.50m; strong dark grey fine grained sandstone with abundant orange and dark red discolouration.		
10.00								Weak thinly to thickly laminated grey MUDSTONE with		
<b>Remarks</b>								<b>Scale (approx)</b> 1:50	<b>Logged By</b> SM	
								<b>Figure No.</b>		



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<b>Machine:</b> <b>Flush :</b> <b>Core Dia: mm</b> <b>Method :</b>		<b>Casing Diameter</b> 140mm cased to 4.00m		<b>Ground Level (mOD)</b> 176.90		<b>Client</b> Highways Agency		<b>Job Number</b> WAL060099		
		<b>Location</b> 444819 E 360670 N		<b>Dates</b> 18/10/2006- 19/10/2006		<b>Engineer</b> Arup		<b>Sheet</b> 2/2		
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.50	100	100	37	0	P2			occasional bands/coarse gravel of ironstone. Fractures are subhorizontal, very closely to closely spaced, generally tight, planar and smoother with orange staining on surfaces.  Between 10.55m and 10.85m; subvertical fracture, undulating, tight and smooth, with much iron staining.		
11.50	100	100	15	0			(3.50)			
13.00	<b>Sample / Tests</b>		<b>Casing Depth (m)</b>	<b>Water Depth (m)</b>		163.90	13.00	Very weak thinly to thickly laminated dark grey black carbonaceous MUDSTONE. Fractures are subhorizontal, very closely to closely spaced, generally tight, planar and smooth.		
14.40	P3				19/10/2006: DRY 19/10/2006:	163.40	13.50	Moderately weak laminated to thinly bedded grey MUDSTONE. Fractures are subhorizontal, very closely to closely spaced. Generally planar, smooth and slightly open with orange iron stained surfaces. 60 degree to 75 degree fractures are closely spaced, generally open, smooth and slightly undulating.		
						162.40	14.50	Complete at 14.50m		
<b>Remarks</b>								<b>Scale (approx)</b> 1:50	<b>Logged By</b> SM	
								<b>Figure No.</b>		