
 <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>RC1213</b>	
<b>Machine:</b> <b>Flush :</b> <b>Core Dia: mm</b> <b>Method :</b>		<b>Casing Diameter</b> 140mm cased to 6.00m		<b>Ground Level (mOD)</b> 129.25		<b>Client</b> Highways Agency		<b>Job Number</b> WAL060099		
		<b>Location</b> 445267 E 362905 N		<b>Dates</b> 30/10/2006- 31/10/2006		<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.			Refer to borehole CP1213 for likely material description.		▽1
	OH		0	0						
1.20										
	46	0	0	0			(6.00)			
6.00										
	100	0	0	0		123.25	6.00	Poor recovery. MADE GROUND. Grey and brown slightly sandy clay and slightly clayey, sandy gravel of sandstone. Sand is fine to coarse, gravel is subangular to subrounded, fine to coarse.		
7.30-7.61 7.30					25/12,13,16,9 SPT 25'/75 50/239		(1.30)			
	87	23	0	0		121.95	7.30	MADE GROUND. Black slightly sandy, slightly gravelly CLAY. Sand is fine. Gravel is subangular to subrounded Below 7.60m; black peaty fine sand with some coal, fine and medium of mudstone and coal. With occasional thin laminae of coal.		
						121.30	7.95	MADE GROUND. Stiff grey slightly sandy CLAY with subangular to subrounded fine to coarse weathered mudstone fragments. With pockets of yellow silt/fine sand.		
8.80 8.80-9.11					25/4,19,23,4 SPT 25'/75 30/10/2006:DRY		(0.85)			
	92	73	47	0	30/10/2006: 50/230 30/10/2006: 31/10/2006:	120.45	8.80	Very weak laminated to very thinly bedded grey MUDSTONE, locally stiff grey clay with very weak mudstone lithorelics. Fractures are randomly orientated, very closely spaced, tight, irregular and slightly rough with iron staining penetrating up to 20mm.		
							(1.95)			
<b>Remarks</b>								<b>Scale (approx)</b> 1:50	<b>Logged By</b> SM	
								<b>Figure No.</b>		

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								<b>Sheet</b> 2/2	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
10.30							(1.95)	MUDSTONE (as previous sheet)	
10.30-10.53			0	0	25/18,27.5 SPT 25'/75 50/154	118.50	10.75		
10.75								Moderately weak to moderately strong thinly bedded light grey SILTSTONE with occasional lenses and thin laminae of dark grey siltstone. Fractures: subhorizontal extremely closely to closely spaced, open, planar and rough with iron staining penetrating up to 25mm. Subvertical fractures are indistinctly spaced, open, undulating and rough with iron At 11.50m; subhorizontal fractures infilled up to 5mm with weak iron stained fine and medium siltstone fragments. staining penetrating 5mm	
11.10	100	100	53	0	P1		(1.90)		
11.80					25/50 SPT 25'/75 50/18 U2			At 12.15m; thin laminae (<2mm) of coal.	
11.80-11.89								At 12.40m; subhorizontal fractures infilled up to 10mm with weak fine and medium siltstone fragments.	
11.90			0	0		116.60	12.65		
12.80	100	100	60	0				Moderately weak laminated to very thinly bedded grey MUDSTONE. Fractures are subhorizontal, closely to medium spaced, generally tight, planar and smooth.	
13.30									
			0	0					
14.40									
14.40	100	87	20	0	P3			Between 14.30 and 14.40m; band of moderately strong light brown ironstone. Below 14.40m; closely spaced thin beds of moderately strong light grey siltstone.	
14.80							(5.15)		
								At 15.85m; 50mm band of light grey siltstone.	
16.30								At 16.60m; 30mm band of light brown ironstone.	
	Sample / Tests		Casing Depth (m)	Water Depth (m)					
17.35	P4								
					31/10/2006:DRY	111.45	17.80		
					31/10/2006; 31/10/2006:DRY			Complete at 17.80m	

Remarks

Scale (approx)

1:50

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SM

Figure No.