


| British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL | | | | | | | Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI - CONTRACT 2 | | Borehole Number RC1288 | | |
|---|-----|-----|---|----|--|------------------------------|---|---|---------------------------|-------------------------|-----------------|
| Machine: Flush : Core Dia: mm Method : | | | Casing Diameter 140mm cased to 4.20m | | | Ground Level (mOD) 105.25 | | Client Highways Agency | | Job Number WAL060099 | |
| | | | Location 445248 E 364832 N | | | Dates 13/11/2006 | | Engineer Arup | | Sheet 1/2 | |
| Depth (m) | TCR | SCR | RQD | FI | Field Records | Level (mOD) | Depth (m) (Thickness) | Description | Legend | Water | |
| 0.00 | PIT | | 0 | 0 | Groundwater was not apparent during boring(1) at 0.00m. B | | | MADE GROUND. Grey brown, grey and black gravelly clay. Gravel is angular to subangular medium to coarse of mudstone and coal. | | Σ1 | |
| 0.50-1.20 | O/H | | 0 | 0 | | | (1.20) | | | | |
| 1.20 | | | | | | 104.05 | 1.20 | Open Hole. | | | |
| | 96 | 68 | 0 | 0 | | | (3.05) | | | | |
| 4.25 | | | 0 | 0 | | 101.00 | 4.25 | Very weak to weak grey thinly colour laminated black weathered SILTSTONE with grey brown discolouration throughout; structure locally lost; orange brown discolouration on fracture surfaces. Fractures: where Between 4.75m and 5.00m; clayey, evident horizontal (5 degrees to 10 degrees), very closely spaced, smooth, planar. Generally weak (variably very weak) thinly and thickly laminated grey MUDSTONE, locally weathered in thin beds to stiff clay; structure frequently lost. Below 6.00m; assumed zone of core loss. | | | |
| 4.75 | 67 | 44 | 0 | 0 | 6.8/7.9.11.15 SPT(C) N=42 | 100.25 | 5.00 | | | | |
| 5.00-5.45 | | | 0 | 0 | | | (1.50) | | | | |
| 5.00 | | | 0 | 0 | | | | | | | |
| 5.75 | | | 0 | 0 | | | | | | | |
| 6.00 | 0 | 0 | 0 | 0 | 8.10/12.14.14.17 SPT(C) N=57 | | | | | | |
| 6.50-6.95 | | | 0 | 0 | | 98.75 | 6.50 | No recovery. Possible fissure. | | | |
| 6.50 | 43 | 9 | 0 | 0 | | | (1.50) | | | | |
| 8.00-8.45 | | | 0 | 0 | 9.9/11.12.14.14 SPT(C) N=51 | | | | | | |
| 8.00 | | | 0 | 0 | | 97.25 | 8.00 | Between 8.00m and 8.35m; recovered as firm to stiff gravelly clay; structure lost. Between 8.35m and 8.65m; recovered as firm to stiff gravelly clay; structure non-intact. Generally weak (variably very weak) thinly and thickly laminated grey MUDSTONE, locally weathered in thin beds to stiff clay; structure frequently lost. Fractures: where evident horizontal (5 degrees), extremely closely to very closely spaced, smooth, planar; vertical, smooth, planar. | | | |
| 8.35 | | | 0 | 0 | | 96.60 | 8.65 | | | | |
| 8.65 | 67 | 22 | 0 | 0 | | | (1.35) | | | | |
| 9.50-9.95 | | | 0 | 0 | 6.12/16.17.21.31 SPT(C) N=85 | | | No recovery. | | | |
| 9.50 | | | 0 | 0 | | | | | | | |
| 10.00 | | | | | | 95.25 | 10.00 | | | | |
| Remarks | | | | | | | | | | Scale (approx) 1:50 | Logged By TL |
| | | | | | | | | | | Figure No. | |



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|--|------------|--|------------|-------------------------------------|---------------------------------|--|--------------------------------------|---|---|--------------|
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| Machine: Flush : | | Casing Diameter 140mm cased to 4.20m | | Ground Level (mOD) 105.25 | | Client Highways Agency | | Job Number WAL060099 | | |
| Core Dia: mm | | Location 445248 E 364832 N | | Dates 13/11/2006 | | Engineer Arup | | Sheet 2/2 | | |
| Depth (m) | TCR | SCR | RQD | FI | Field Records | Level (mOD) | Depth (m) (Thickness) | Description | Legend | Water |
| 10.65 | | | 0 | 0 | | | (0.65) | Generally weak (variably very weak) thinly and thickly laminated grey MUDSTONE, locally weathered in thin beds to stiff clay; structure frequently lost. | | |
| | 41 | 5 | 0 | 0 | | 94.60 | 10.65 | At 10.45m; occasional subrounded coarse gravel size ironstone nodules. | | |
| 11.00 | | | 0 | 0 | | 94.25 | (0.35) | Weak to moderately weak brittle black COAL. Fractures: horizontal and vertical, extremely closely to very closely spaced, planar. | | |
| 11.40 | | | 0 | 0 | | | | Poor recovery. Recovered as fragments of coal and firm grey CLAY with frequent black carbonised fossil plant remains. | | |
| 11.90 | 67 | 52 | 24 | 0 | | | (1.50) | | | |
| 12.50 | | | 0 | 0 | 25/50 SPT(C) 25'/44 50/62 | 92.75 | 12.50 | Assumed zone of core loss. | | |
| 12.50-12.61 | | | 0 | 0 | | 92.25 | (0.50) | | | |
| 13.00 | 67 | 67 | 16 | 0 | P1 | | 13.00 | Generally moderately weak (variably weak to moderately strong) light and dark grey thinly colour laminated SILTSTONE. Fractures: horizontal, closely spaced, smooth, planar and undulating, occasionally infilled with soft sandy clay up to 4mm; others generally vertical, irregular. | xxxxxx | |
| 13.00 | | | | | | | (1.30) | | xxxxxx | |
| 13.90 | | | 0 | 0 | P2 | | | | xxxxxx | |
| 14.00 | | | 0 | 0 | | 90.95 | 14.30 | Weak to moderately weak light and dark grey thinly cross | | |
| 14.30 | | | 0 | 0 | P3 | | | At 14.45m; very thin bed of moderately strong ironstone. colour laminated MUDSTONE. Fractures: horizontal, very closely to closely spaced, smooth, planar; vertical, generally irregular. | | |
| 14.55 | | | 0 | 0 | | | (1.20) | Between 15.00m and 15.50m; no recovery. | | |
| 14.95 | | | | | P4 | | | | | |
| 15.00 | | | | | | 89.75 | 15.50 | Complete at 15.50m | | |
| | | | | | 13/11/2006:15.21m | | | | | |
| | | | | | 13/11/2006: | | | | | |
| Remarks | | | | | | | | Scale (approx) 1:50 | Logged By TL | |
| | | | | | | | | Figure No. | | |