
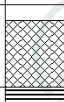













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|---|------------|---|------------|---------------------------------------|---|--|------------------------------|--------------------------------|---|--------------|
|  British Geological Survey <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small> | | | | | | Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI-CONTRACT 2 | | | Borehole Number RC1194 | |
| Machine: Flush : Core Dia: mm Method : | | Casing Diameter 140mm cased to 17.50m | | Ground Level (mOD) 122.65 | | Client Highways Agency | | Job Number WAL060099 | | |
| | | Location 444665 E 357882 N | | Dates 26/09/2006-16/10/2006 | | Engineer Arup | | Sheet 1/4 | | |
| 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. | | | Inspection Pit. | | V1 |
| | OH | | 0 | 0 | | | (1.20) | | | |
| 1.20 | | | | | | 121.45 | 1.20 | Open Hole. | | |
| Remarks | | | | | | | | | | |
| | | | | | | | | Scale (approx) 1:50 | Logged By SM | |
| | | | | | | | | Figure No. | | |

[illegible]



|  British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL | | | | | | | Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI - CONTRACT 2 | | Borehole Number RC1194 | | |
|--|-----|-----|---|----|---|---------------------------------------|--|---|---|--------------------------------|--|
| Machine: Flush : Core Dia: mm Method : | | | Casing Diameter 140mm cased to 17.50m | | | Ground Level (mOD) 122.65 | | Client Highways Agency | | Job Number WAL060099 | |
| | | | Location 444665 E 357882 N | | | Dates 26/09/2006-16/10/2006 | | Engineer Arup | | Sheet 3/4 | |
| Depth (m) | TCR | SCR | RQD | FI | Field Records | Level (mOD) | Depth (m) (Thickness) | Description | Legend | Water | |
| 20.50 20.50-20.80 | | | | | 12.13/24.33 SPT 57/150 | 102.15 | (1.50) 20.50 | Weak thinly laminated grey MUDSTONE with closely to At 20.50m; poor recovery possibly due to SPT. medium spaced thin beds of moderately weak thinly laminated light grey SILTSTONE with occasional coarse Between 21.00m and 21.15m; with closely spaced thin laminae of coal. ironstone gravel. Fractures are generally subhorizontal, closely spaced, tight, undulating and smooth. |  | | |
| 21.60 | 90 | 72 | 42 | 0 | P1 | | | | | | |
| 22.00 | | | | | 18.25/50 10/10/2006: | | | At 21.70m; 20mm band of weak black coal. Between 21.72m and 21.77m; very closely spaced horizontal fractures infilled up to 4mm with soft grey clay. At 22.00m; poor recovery, possibly due to SPT. |  | | |
| 22.00-22.17 | 100 | 100 | 49 | 0 | 10/10/2006: SPT 50/22 10/10/2006: | | | | | | |
| 23.00 | | | | | 11/10/2006: | | | Between 23.00m and 24.50m; predominantly thin to medium beds of siltstone. |  | | |
| 23.30 | 86 | 86 | 40 | 0 | 11/10/2006: 11/10/2006: 12/10/2006: U2 | (6.05) | | | | | |
| 24.50 24.50-24.65 | 80 | 80 | 60 | 0 | 25/58 SPT 25'/75 58/75 | | | From 25.20m to 25.60m; possible zone of core loss. |  | | |
| 25.20 | | | 0 | 0 | | | | | | | |
| 26.35 | 100 | 100 | 36 | 0 | | 96.10 | 26.55 | Moderately weak thinly to thickly laminated dark grey At 26.70m; fracturing probably due to SPT. carbonaceous MUDSTONE. Fractures are horizontal, very closely to closely spaced, generally open, planar and smooth |  | | |
| 26.70 26.70-26.85 | | | | | 25/50 SPT 25'/75 50/73 P3 | | (1.05) | | | | |
| 27.05 | 100 | 100 | 73 | 0 | | 95.05 94.90 | 27.60 (0.15) 27.75 | Moderately weak thinly to thickly laminated black COAL. Fractures are horizontal, very closely to closely spaced, generally tight, planar and smooth. |  | | |
| 28.20 | | | | | | | | Moderately weak laminated to very thinly bedded light grey MUDSTONE with occasional coarse ironstone gravel. With rare carbonised plant remains. Fractures are subhorizontal closely to medium spaced, generally open, planar and smooth. Occasionally infilled up to 3mm with soft grey clay. |  | | |
| 28.65 | | | 0 | 0 | P4 | | (2.35) | | | | |
| 29.20 | 100 | 100 | 63 | 0 | 12/10/2006:21.10m | | | |  | | |
| 29.70 | | | | | 12/10/2006:23.60m | | | | | | |
| | | | | | | | | | | | |
| Remarks | | | | | | | | | Scale (approx) 1:50 | Logged By SM | |
| | | | | | | | | | Figure No. | | |

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|---|-----|-----|---|----|--|---|---|---|---|-------|
| <div><div>British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL</div></div> | | | | | | Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI - CONTRACT 2 | | Borehole Number RC1194 | | |
| Machine: Flush : Core Dia: mm Method : | | | Casing Diameter 140mm cased to 17.50m Location 444665 E 357882 N | | Ground Level (mOD) 122.65 Dates 26/09/2006-16/10/2006 | | Client Highways Agency Engineer Arup | | Job Number WAL060099 Sheet 4/4 | |
| Depth (m) | TCR | SCR | RQD | FI | Field Records | Level (mOD) | Depth (m) (Thickness) | Description | Legend | Water |
| 30.30-30.60 | 97 | 97 | 70 | 0 | U5 | 92.55 | (2.35) 30.10 | Moderately strong thinly to thickly laminated light grey SILTSTONE. Fractures are subhorizontal, closely to medium spaced, generally open, planar and slightly rough. | <div>XX</div> | |