





|  British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL | | | | | | Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2 | | | Borehole Number RC1224 | |
|--|-----|--|-----|---|---|--|-----------------------------|--|---|-------|
| Machine: Flush : Core Dia: mm Method : | | Casing Diameter 140mm cased to 8.00m | | Ground Level (mOD) 115.80 | | Client Highways Agency | | | Job Number WAL060099A | |
| | | Location 445359 E 366814 N | | Dates 04/10/2006- 09/10/2006 | | Engineer Arup | | | Sheet 1/3 | |
| Depth (m) | TCR | SCR | RQD | FI | Field Records | Level (mOD) | Depth (m) (Thickness) | Description | Legend | Water |
| 0.00 | OH | | 0 | 0 | Groundwater was not apparent during boring(1) at 0.00m. | | | OPEN HOLE. Refer to borehole CP1224 for likely material description. | | ▽1 |
| | 32 | 0 | 0 | 0 | | | (7.20) | | | |
| 7.20 | | | | | 04/10/2006: DRY 04/10/2006: 04/10/2006: 05/10/2006: | 108.60 | 7.20 | Poor recovery. Recovered as firm to stiff grey brown slightly sandy gravelly clay. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse sandstone, siltstone, mudstone and coal. With occasional cobbles. Probably MADE GROUND. | | |
| 8.70 | 53 | 0 | 0 | 0 | | | | | | |
| Remarks | | | | | | | | Scale (approx) 1:50 | Logged By SM | |
| | | | | | | | | Figure No. | | |



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| | | Location 445359 E 366814 N | | Dates 04/10/2006- 09/10/2006 | | Engineer Arup | | Sheet 2/3 | | |
| Depth (m) | TCR | SCR | RQD | FI | Field Records | Level (mOD) | Depth (m) (Thickness) | Description | Legend | Water |
| 10.20 | | | | | | | | Probably MADE GROUND (as previous sheet) | | |
| | 33 | 0 | 0 | 0 | | | (7.30) | | | |
| 11.70 | | | | | | | | | | |
| | 59 | 0 | 0 | 0 | | | | | | |
| 14.50 | | | | | 05/10/2006: DRY 05/10/2006: 05/10/2006: DRY 06/10/2006: | 101.30 | 14.50 | Poor recovery. Recovered as 0.90m of stiff mottled grey and brown slightly gravelly CLAY. Possible | | |
| | 79 | 56 | 24 | 0 | | | (2.60) | | | |
| 17.10 17.20 | | | | | P1 | 98.70 | 17.10 | Moderately strong very thinly bedded light grey with occasional dark grey laminations fine and medium grained SANDSTONE. Moderately weathered with iron staining throughout. Fractures are subhorizontal, closely to medium spaced, open, undulating and slightly rough with iron staining penetrating up to 10mm. Subvertical fractures are indistinctly spaced, open, undulating and rough. From approximately 17.90m to 18.50m; assumed zone of core loss. | | |
| | 87 | 87 | 43 | 0 | | | | | | |
| 18.50 | | | | | | | (2.90) | | | |
| | 100 | 83 | 43 | 0 | | | | | | |
| 20.00 | | | | | | | | | | |
| Remarks | | | | | | | | Scale (approx) 1:50 | Logged By SM | |
| | | | | | | | | Figure No. | | |



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| | | Location 445359 E 366814 N | | Dates 04/10/2006- 09/10/2006 | | Engineer Arup | | | Sheet 3/3 | |
| Depth (m) | TCR | SCR | RQD | FI | Field Records | Level (mOD) | Depth (m) (Thickness) | Description | Legend | Water |
| 20.80 | 76 | 69 | 36 | 0 | P2 | 95.80 95.45 95.00 | 20.00 (0.35) 20.35 (0.45) 20.80 | Moderately weak grey fine and medium grained SANDSTONE, recovered as cobbles up to 100mm x 80mm x 80mm with some iron staining. Stiff dark grey CLAY with occasional carbonaceous plant remains. Moderately strong very thinly bedded light grey with occasional dark grey laminations fine and medium grained SANDSTONE. Fractures are subhorizontal, closely to medium spaced, open, undulating and slightly rough with iron staining penetrating up to 10mm. Subvertical fractures are indistinctly spaced, open, undulating and rough. At 21.20m; 45 degree fracture, open, undulating and rough. At 21.30m; 45 degree fracture, open, undulating and rough. At 21.85m; horizontal fracture, heavily iron stained, penetrating 5mm to 8mm. At 21.85m; horizontal fracture, heavily iron stained, penetrating 5mm to 8mm. Between 22.50m and 22.65m; stiff grey clay with some weak lithorelics of mudstone. | | |
| 21.50 | Sample / Tests | | Casing Depth (m) | Water Depth (m) | | | | | | |
| 21.90-22.15 | U3 | | | | | | (2.80) | | | |
| | | | | | 06/10/2006:DRY 06/10/2006: 06/10/2006:DRY 09/10/2006: 09/10/2006: 09/10/2006: 09/10/2006: | 92.20 | 23.60 | Complete at 23.60m | | |
| Remarks | | | | | | | | Scale (approx) 1:50 | Logged By SM | |
| | | | | | | | | Figure No. | | |