

| British Geological Survey NATURAL BIVIRONHENT RESEARCH COUNCIL | | | | | | | | Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrad | IMCS2 Upgrade | | ole er |
|--|--------------|-----------|-------------------------------|----------------------|-----------------------------------|-----------------------------|-----------------------------|--|-------------------|-------------|-----------|
| Machine: Casing Diameter Flush : Core Dia: mm Location | | | r Ground Level (mOD) 86.57 | | |) Client Highways Agency | | Job Number | | | |
| | | | | | | 1.13.11.27.13.11.07 | | Sheet | | | |
| | | | | Dates 26/08/1999- | | Engineer | | | | | |
| | | | 444845.84 E 369803.82 N | | | 01/09/1999 | | WSP Environmental Ltd | | 1/2 | |
| Depth (m) | TCR | SCR | RQD | FI | Field Records | (mOD) | Depth (m) (Thickness) | Description | | Legend | Water |
| 51 | | | | | | | (0.30) | TOPSOIL. | | | |
| 30-0.60 | 95 | 43 | 12 | 25 | D01 0 blows | 86.27 | 0.30 (0.30) | MADE GROUND: Light brown slightly sandy slightly | | 1 | |
| 60-0.80 | 55 | 70 | ,,, | 25 | D02 0 blows | 85.97 | 0.60 | medium and coarse angular gravel sized fragment limestone. | | | |
| 30 | | | 0 | 10 | | | | Grey thinly laminated subhorizontal very thinly and bedded subhorizontal moderately weathered MUD weak to moderately weak locally very weak with extension of the subhorizontal was a subhorizontal with extension of the subhorizontal was a subhorizontal with a subhorizontal was a subhori | STONE | | |
| | | | | | | | Ē | closely spaced random fractures open irregular sn (Coal Measures) | nooth. | | |
| 45 | 87 | 56 | 23 | 0 | | | | from 1.45m fractures become very closely and closely spaced subhorizontal open smooth plans | i r with | | _ |
| 0 | | | | | Seepage(1) at 1.80m, sealed at | | | clay smearing | | | V |
| | | | 0 | 25 | 100000.00m. | | (3.20) | (29) | | | |
| 5 | | | 0 | 9 | _ | | <u> </u> | from 2.45m to 2.55m highly weathered with | | | |
| 55 | | | 0 | 99 | | | | extremely closely spaced random fractures oper smooth irregular | ו | | |
| | | | | | | | <u> </u> | | | | |
| 20 30-3.60 | 100 | 59 | 18 | 25 | 10,15/22,28,0,0 SPT 50/145 | | | | | | |
| 59 30 | | | 0 | 3 | | 82.77 | 3.80 | | | | |
| 0 | | | 0 | 25 | _ | | | Light grey thinly laminated subhorizontal very thinly thinly bedded subhorizontal highly weathered MUD weak to moderately weak locally very weak with extension of the subhorizontal sub | STONE, | | |
| > | | | 0 | 3 | | | | closely spaced random fractures tight smooth irreg smeared. (Coal Measures) | gular clay | | |
| 50 | 97 | 22 | 0 | 25 | - | | È | from 3.80m to 4.00m moderately weathered w very closely spaced subhorizontal and inclined | ith | | |
| 30 | | | | | - | | (2.35) | fractures open smooth planar clay smearedfrom 4.50m to 4.80m slightly weathered mode weak with closely and very closely spaced | rately | | |
| | | | 0 | 25 | | | E | subhorizontal and subvertical fractures open smo planar | ooth | | |
| | | | | | | | = | | | | |
| 30 | | | 0 | 6 | _ | | E | | | | |
| 15 | 400 | | | 0 | _ | 80.42 | - | Dark grey thinly laminated subhorizontal very thinly | bedded | | |
| 40 | 100 | 11 | 0 | 25 | | 80.00 | (0.42) | subhorizontal slightly weathered carbonaceous MUDSTONE, moderately weak and weak with very pspaced subhorizontal fractures tight smooth planar | closely | | |
| 57 | | | 10 | | | | E | Measures) | | | |
| | | | 0 | 25 | | | (0.86) | Light grey thinly laminated subhorizontal thinly bedi subhorizontal highly weathered MUDSTONE, very with extremely closely spaced random fractures sr | weak | | |
| 13 | | | 0 | 98 | | 79.14 79.04 | 7.43 7.53 | irregular clay smeared. (Coal Measures)from 6.80m with closely spaced thick laminae | of _□ | | |
| 53 | 100 | 0 | 0 | 0 | | 79.04 | E | moderately weathered carbonaceous mudstone, Black moderately weathered COAL, weak with extr | emely | | |
| 90 | | | 0 | 25 | | | (0.82) | closely spaced subhorizontal and subvertical fractions smooth planar. (Coal Measures) | | | |
| 35 | | | | | _ | 78.22 | 8.35 | Stiff grey extremely closely fissured silty CLAY with fossils. (Completely Weathered Seatearth) (Coal N | | | |
| ' | | | | | | | | Light grey thinly and medium bedded subhorizonta moderately weathered very silty fossiliferous MUD | STONE, | | 2 |
| | 100 | 13 | 0 | 2 | | | (1.05) | very weak with extremely closely spaced random f smooth irregular tight clay smeared. (Seatearth) from 8.80m brownish grey | ractures | | |
| 10 | | | | | _ | 77.17 | 9.40 | | ven: | | |
| 60 | | | 0 | 98 | - | 76.97 | 9.40 (0.20) 9.60 | Dark grey indistinctly thinly laminated subhorizontal thinly bedded subhorizontal highly weathered carbonaceous MUDSTONE, very weak with very control of the control of the carbonaceous control of the carbonaceous mudbles. | losely | | |
| | | | | | | | <u> </u> | spaced subhorizontal fractures open smooth irregi | uiar. | | |
| temarks Inspection | n pit excava | ted to 0. | 80m. 2. E | 3orehole | complete at 13.00m. | 3. Boreho | le backfilled w | vith grout. 4. Marker Post Ref 231/5 S. | Scale (approx) | Logge By | d |
| | | | | | | | | (6) | 1:50 | NBR | |
| | | | | | | | | | Figure N | | _ |



| 898) | British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL | | | | | | | Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade Client Highways Agency | |
|------------------------|--|-----|--------------------------------|-----|---------------------------------|----------------------|-----------------------------|---|--------------|
| achine: Casing Diamete | | | er Ground Level (mOD) 86.57 | | | | | | |
| ore Dia: n | nm | | Locatio | | E 369803.82 N | Dates 26 01 | i/08/1999- /09/1999 | Engineer WSP Environmental Ltd | Sheet 2/2 |
| Depth (m) | TCR | SCR | RQD | FI | Field Records | Level (mOD) | Depth (m) (Thickness) | Description | Legend |
| | 97 | 0 | 0 | 3 | | (| | Soft to firm dark grey slightly sandy CLAY with much fine and medium angular and subangular gravel. (Possible Workings?) | (|
| 80 | | | 0 | 98 | - | | (2.44) | from 10.80m to 11.00m grey slightly weathered mudstone with very closely spaced subhorizontal | |
| 00 | | | 0 | 98 | | | - | fractures open smooth planar | |
| 0 | | | 0 | 25 | _ | | | | |
| 04 | 100 | 30 | 21 | 0 | - | 74.53 | 12.04 | Black slightly to moderately weathered COAL weak with extremely closely spaced subhorizontal and subvertical fractures tight smooth planar. (Coal Measures) from 12.30m becomes highly weathered very weak. | |
| 30 | | | 0 | 2 | 26/08/1999:0.00m 01/09/1999: | 74.09 73.92 | 12,48 | fractures tight smooth planar. (Coal Measures)from 12.30m becomes highly weathered very weak, fractures become open with clay smearing | |
| 55 15 | | | 0 | 99 | 1 | | (0.35) | Firm grey indistinctly thinly laminated CLAY. (Completely Weathered Seatearth?) (Coal Measures) | |
| | | | | | 01/09/1999:100000 | 0.00m ^{3.5} | 15.00 | Grey thinly bedded subhorizontal highly weathered very silty fossiliferous MUDSTONE, weak with closely spaced subhorizontal fractures open smooth undulose. (Seatearth) (Coal Measures)from 12.85m non intact | |
| | | | | | | | | Complete at 13.00m | |
| | | | (B) | 50) | | | | | |
| | | | | | | (4 | | | |
| emarks | | | | 35) | | | <u> </u> | Scale (appro) | Logged By |