

Welsh Government

M4 Corridor around Newport

Environmental Statement
Supplement

Volume 3: Appendix
S15.1 Supplementary Soil Auger
Boring Descriptions

M4CaN-DJV-EGN-ZG_GEN-AX-EN-0003

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Contents

| | Page |
|-------------------------------------------|----------|
| 1 Key to Auger Boring Descriptions | 1 |

1 Key to Auger Boring Descriptions

1.1 Textures

| | |
|------|--------------------------|
| Msl | - medium sandy loam |
| Mszl | - medium sandy silt loam |
| Mcl | - medium clay loam |
| Mzcl | - medium silty clay loam |
| ScI | - sandy clay loam |
| Hcl | - heavy clay loam |
| Hzcl | - heavy silty clay loam |
| C | - Clay |

1.2 Colours

| | |
|-----|------------------------|
| DB | - dark brown |
| B | - brown |
| VDB | - very dark brown |
| DRB | - dark reddish brown |
| RB | - reddish brown |
| DGB | - dark greyish brown |
| GB | - greyish brown |
| PB | - pale brown |
| PRB | - pale yellowish brown |
| YB | - yellowish brown |

1.3 Others

| | |
|-----|------------------------------|
| PSD | - Particle size distribution |
| TSP | - Topsoil stone pit |

| Auger Boring Number | Depth | Colour | Texture | Description | Grade |
|---------------------|-------------|--------|-----------------|-----------------------------------------------------------|-----------------------------------------|
| S1 | 0 -20 | Drb | Hcl | | 3a (wetness) |
| | 20 – 30 | Rb | Hcl | | |
| | 30 – 50 | Rb | C | Few ochreous mottles and manganese becoming stony at base | |
| | 50 + | | Limestone | | |
| S2 | 0 – 20 | Drb | Mcl | 10 – 15% stone | 3b (depth and stone) |
| | 20 – 24 | Rb | Mcl | Stony | |
| | 24 + IMP | | Limestone brash | | |
| S3 | 0 – 20 | Drb | Mcl | 10-15% stone | 3b (depth and stone) |
| | 20 – 24 IMP | Rb | Mcl | Stony | |
| S4 | 0 -20 | Drb | Hcl | 10% stone | 3b (depth and stone) |
| | 20 – 24 IMP | Rb | Mcl | Stony | |
| S5 | 0 – 22 | Drb | Hcl | 15% stone | 3b (depth and stone) |
| | 22 – 30 IMP | Rb | C | 10-15% stone | |
| S6. | 0 – 23 | Drb | Hcl | 5% stone | 3a (wetness) |
| | 23-55 | Rb | Hcl | | |
| | 55+ | Rb | C | | |
| S7 | 0 – 24 | Drb | Hcl | 5% stone | 3a (wetness) |
| | 24 – 55 | Rb | Hcl | | |
| | 55+ | Rb | C | | |
| S8 | 0 -24 | Drb | Hcl | 5% stone, 9° slope | 3b slope |
| | 24-40 | Rb | C | Becoming stony | |
| | 40+ | | Brashy stone | | |
| S9 | 0 – 22 | Drb | Hcl | 10-15% stone (patches of 15-20%) | 3b (verging on Grade 4 stone and depth) |
| | 22 + IMP | | | | |

| Auger Boring Number | Depth | Colour | Texture | Description | Grade |
|---------------------|----------------------|--------------|---------------------------|-------------------|----------------------|
| S10 | 0 - 24 | Drb | Hcl | 5% stone | 3a (depth) |
| | 24 - 40 | Prb | C | Becoming stony | |
| | 40+ | Brashy stone | | | |
| S11 | 0 - 25 | Drb | Hcl | 5% stone | 3a (depth) |
| | 25 - 35 | Rb | Hcl | 10% - 15% stone | |
| | 35 + IMP | | | | |
| S12 | 0 - 23 | Drb | Mcl | 5% stone | 3a/b |
| | 23 - 30 | | Powdery limestone and mcl | | |
| | IMP | | | | |
| S13 | 0 - 25 | Drb | Hcl | <5% stone | 3a (depth) |
| | 25 - 35 | Rb | C | +brashy limestone | |
| | 35+ broken limestone | | | | |
| S14 | 0 - 22 | Drb | Hcl | Stony (15%) | 3b (depth and stone) |
| | 22 - 25 | Rb | Hcl | stony | |
| | IMP | | | | |
| S15 | 0 - 25 | Drb | Hcl | 5% stone | 3a (depth) |
| | 25 - 40 | Rb | C | Crumbly limestone | |
| | 40+ broken limestone | | | | |
| S16 | 0 - 25 | Drb | Hcl | 5% stone | 3a (depth) |
| | 25 - 35 | Rb | C | Soft limestone | |
| | 35+ IMP hard lstone | | | | |
| S17 | 0 - 25 | Drb | Hcl | <5% stone | 3a |
| | 25 - 40 | Rb | Hcl/c | | |
| | 40 - 60+ | Rb | C | Frag of limestone | |
| S18 | 0 - 25 | Drb | Hcl | 5% stone | 3a (depth) |
| | 25 - 35 | Rb | Hcl | 5-10% stone | |
| | IMP | | | | |