

## **Telford & Wrekin Local Plan**

### **Examination in Public**

#### **Matter 7: Environmental Resources**

##### **EiP Ref K24 -32a**

1. The Inspector has asked the Council to consider two options for mineral safeguarding areas (MSAs) in Telford and Newport. Option 1 would be to apply the MSAs across both urban areas. Option 2 would be to provide additional evidence to justify why MSA's should not be shown across the urban areas (Telford and Newport) and change the shadings for mineral buffer zones.
2. The Council has reviewed its approach in the light of the oral evidence given, and statement made at the Examination in Public which its officers and fellow officers from Shropshire Council provided<sup>1</sup>
3. The Council has now mapped the theoretical minerals resources identified in the BGS study<sup>2</sup> across both urban areas (see Appendix 1).
4. Over this layer, the Council has subsequently identified sites with Section 7(1) consents and environmental constraints (World Heritage Site, Area of Outstanding Natural Beauty, Sites of Special Scientific Interest, Local Wildlife Sites, Existing and Proposed Local Nature Reserves, Ancient Woodlands, Local Geological Sites, Strategic Landscapes, Conservation Areas, Historic Parks and Gardens and Scheduled Ancient Monuments) as well as major sites in the south of Newport that benefit from planning permission or which have been minded to grant approvals<sup>3</sup>. These areas have been 'blackened' out to show the remaining MSA areas.
5. The remaining MSA areas are overwhelmingly in built up areas. There are no viable economic 'pockets' with the exception of Site H1. However, as evidenced by borehole data (See Appendix 2). There are no viable economic deposits.
6. As a result of this review, the Council concludes that it should pursue Option 2 and not apply the MSA across the urban areas of Telford and Newport. The Council's approach of excluding MSA's within built up areas has been accepted in urban areas elsewhere. For example, the Greater Manchester

---

<sup>1</sup> J8/TWC

<sup>2</sup> C6h

<sup>3</sup> Helpfully shown in Appendix 3 to J8/55/1

Joint Minerals Plan (2013) also excludes MSA's from urban areas where the policy<sup>4</sup> allows proposals to be considered as they come forward and does not prevent extraction of minerals in the urban area in appropriate circumstances. In other urban areas with single tier (unitary) authorities the position is similar; Stoke, and various London Boroughs (Hillingdon, Hounslow and Redbridge) also avoid the blanket covering of urban areas with MSA.

7. The Council has contacted the Minerals Products Association for their view on this. They concur with the Council's approach (see Appendix 3).
8. The MSA's are designed to be shown on the interactive proposals map where the shadings are crisp and clear.

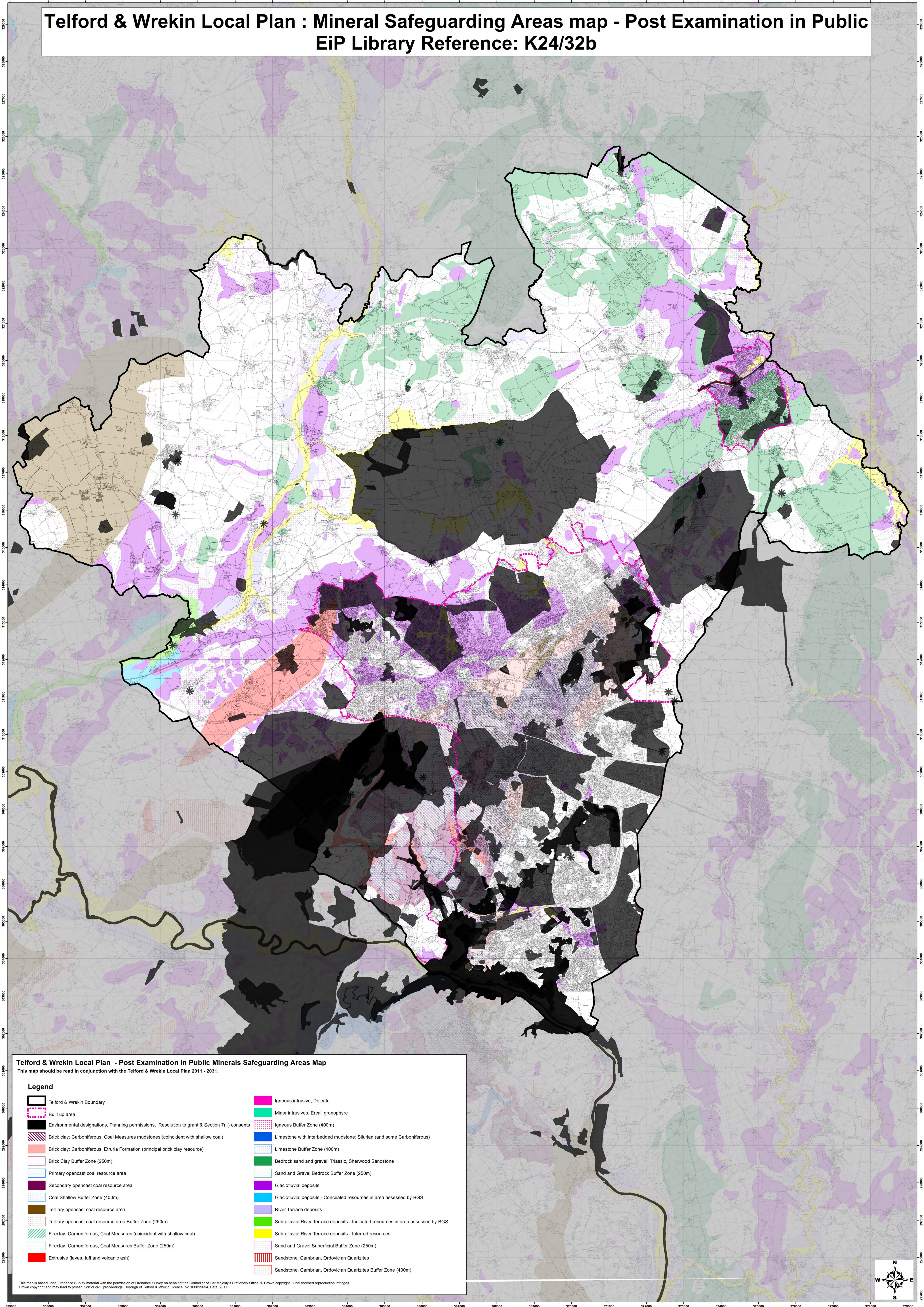
---

<sup>4</sup> (Paragraph 4.5 Greater Manchester Minerals Plan April 2013)



# Telford & Wrekin Local Plan : Mineral Safeguarding Areas map - Post Examination in Public

EiP Library Reference: K24/32b



## Telford & Wrekin Local Plan - Post Examination in Public Minerals Safeguarding Areas Map

This map should be read in conjunction with the Telford & Wrekin Local Plan 2011 - 2031.

### Legend

- |   |  |   |
|---|--|---|
| Telford & Wrekin Boundary   | Built up area  | Igneous intrusive, Dolerite   |
| Environmental designations, Planning permissions, Resolution to grant & Section 7(1) consents | Igneous Buffer Zone (400m)   | Minor intrusives, Ercall granophyre   |
| Brick clay: Carboniferous, Coal Measures mudstones (coincident with shallow coal)             | Limestone with interbedded mudstone: Silurian (and some Carboniferous) | Limestone Buffer Zone (400m)  |
| Brick clay: Carboniferous, Etruria Formation (principal brick clay resource)                  | Bedrock sand and gravel: Triassic, Sherwood Sandstone                  | Sand and Gravel Buffer Zone (250m)  |
| Brick Clay Buffer Zone (250m)   | Glaciofluvial deposits   | River Terrace deposits  |
| Primary opencast coal resource area   | Glaciofluvial deposits - Concealed resources in area assessed by BGS   | Sub-alluvial River Terrace deposits - Indicated resources in area assessed by BGS |
| Secondary opencast coal resource area   | Sub-alluvial River Terrace deposits - Inferred resources               | Sand and Gravel Superficial Buffer Zone (250m)                                    |
| Coal Shallow Buffer Zone (400m)   | Sandstone: Cambrian, Ordovician Quartzites                             | Sandstone: Cambrian, Ordovician Quartzites Buffer Zone (400m)                     |
| Tertiary opencast coal resource area  |  |   |
| Tertiary opencast coal resource area Buffer Zone (250m)                                       |  |   |
| Fireclay: Carboniferous, Coal Measures (coincident with shallow coal)                         |  |   |
| Fireclay: Carboniferous, Coal Measures Buffer Zone (250m)                                     |  |   |
| Extrusive (lavas, tuff and volcanic ash)  |  |   |

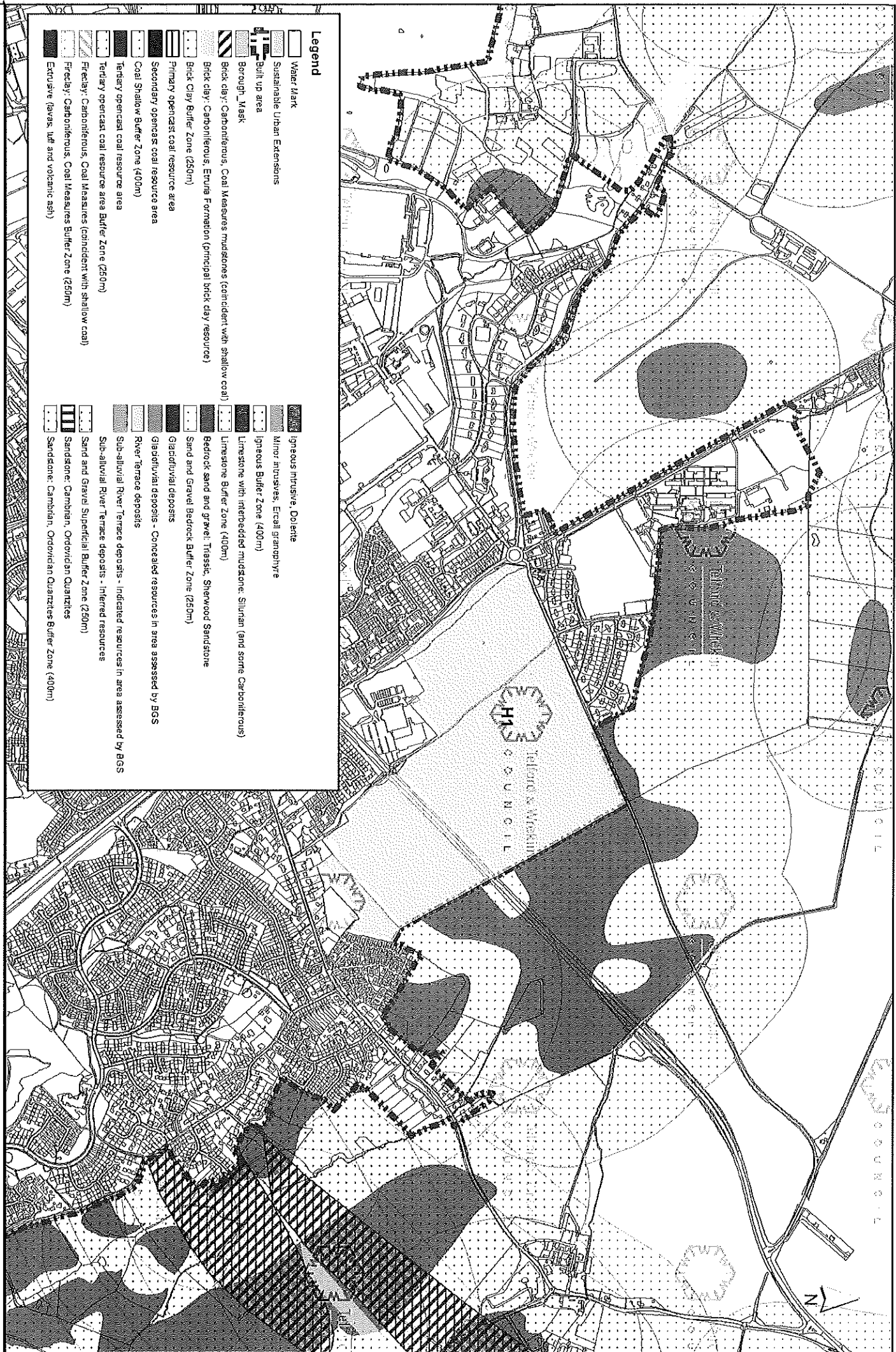
This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office. © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Borough of Telford & Wrekin Licence No 100019694. Date: 2017







# Site H1 Sustainable urban extension Vs BGS data



# British Geological Survey

## View the National Geoscience Data Centre collection of onshore scanned boreholes, shafts and well records of Britain viewer

Map of Great Britain and Ireland showing the location of the borehole data collection

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Click on a borehole to view scan.

Borehole depth

- 0 - 10m
- 10 - 30m
- 30m+
- Unknown
- Confidential or Restricted

More on boreholes

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

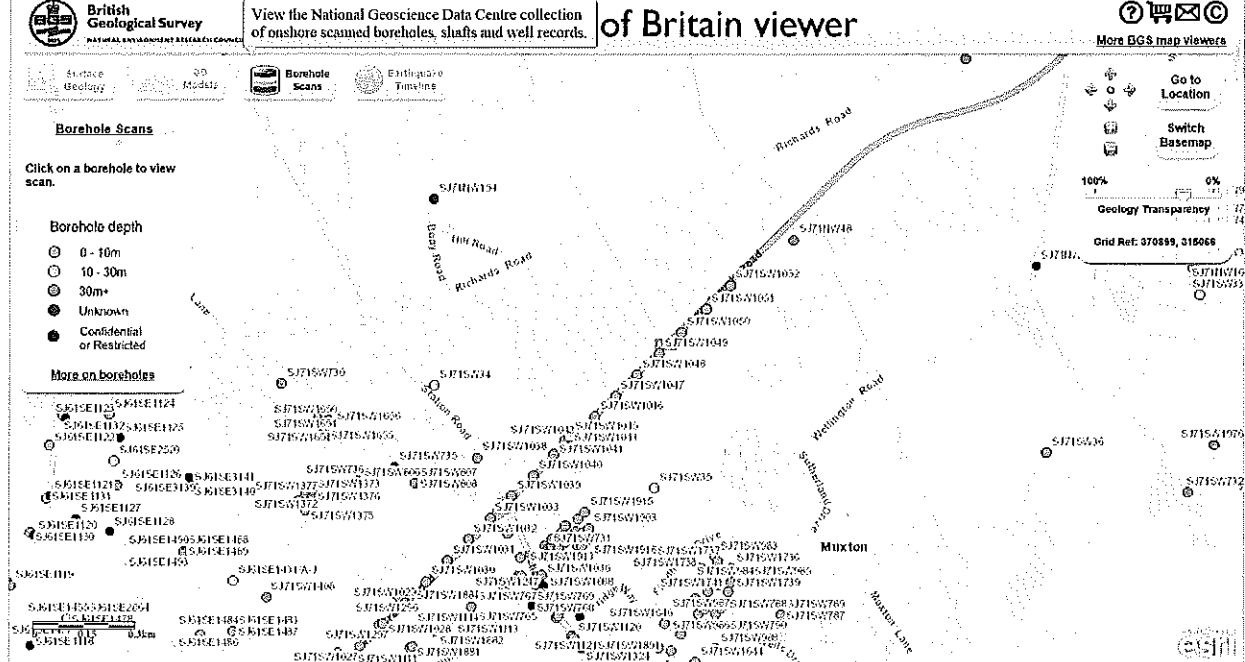
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



Augering programme - B30 power auger

Honnington and Donnington area

SJ 71 SW 34-3

Donnington A1 SJ 7056 1469 SJ 71 SW 34.

- 0-3'. Late glacial lacustrine deposit; clay, medium yellow-grey; soft sandy, unbedded.
- 5-22'. Upper Boulder Clay: boulder clay, rich purple-brown; rather soft sandy, pebbly.
- 13-48'. Middle Sands: sand, medium brown; largely LMS material, also m. angular grains, small shell fragments; few pebbles to 2cm main quartz. Harder at 24', harder from 28'-33', hard at 44'. Coarse downwards, with larger pebbles, to 5cm, including ?Cretaceous and rounded grit olasts.

Donnington A2 SJ 7122 1438. SJ 71 SW 35.

- 0-8'. Top few feet sandy soil, feather edge of a large outcrop of Middle glacial sands. Then Lower Mottled Sandstone.
- 8-35'. Lower Mottled Sandstone. Sand, red and yellow, rounded frosted. Change at 21', to yellow coarse sand with pieces to 2cm of hard sandstone (rounded grains in siliceous matrix); few small clay patches. Becoming dark red and clayey at 33'. Hole abandoned at still drilling easily.

Honnington A1 SJ 7240 1448. SJ 71 SW 36.

- 0-3'. Sand, pale grey; soft, mixed angular material.
- 3-8'. Boulder clay, then lacustrine clay.
- 8-13'. Lacustrine clay to 12', then thin fine clayey sand, dark brown, very wet and runny, mixed angular grains, little Bunter material.
- 13-20'. Sand as above. Drilling abandoned at 20' at an obstruction. Bit revealed Coal Measures dark grey mudstone.

Donnington

One hole was sunk to explore the extension of the glacial lake deposits mapped on the Lower Mottled Sandstone west of Honnington Grange. Twenty feet of drift were recorded, sand resting on a thin boulder clay, then lacustrine clay and sand. At 20' (6.1m) Coal Measures mudstones were encountered. At this point the published map shows drift-free Basal Coal Measures Sandstone.

Donnington, Hoo Hall, Trench

Five holes were sunk to investigate the drift deposits between Donnington and Lubtree, where solid Lower Mottled Sandstone outcrops, the Trench Borehole where only thin drift is recorded. A deep drift-free depression was found, contrasting with the Honnington area, where only drifts are mapped capping the higher ground. The succession revealed is follows:-

- Upper Sands; loose gravelly sand and clayey sand; recorded only in Trench A1 and Donnington A2, maximum thickness drilled (1.2m), but mapped over large areas inaccessible to trenching.
  - Upper Boulder Clay; chocolate brown pebbly clay, maximum thickness recorded 1' (4.0m) at Hoo Hall A1 and A3.
  - Laminated lake clay; Hoo Hall A1 only.
  - Middle Sands; wet brown sand, gravelly below; maximum thickness recorded 35' (10.6m) in Donnington A1.
  - Lower Boulder Clay; hard clay with small pebbles, as recorded at C Oak (see below); Hoo Hall A1 and A3 only, maximum thickness recorded 9' (2.7m).
  - Laminated lake clay - Hoo Hall A3 only.
- Donnington A2 lay on the feather edge of the depression; this revealed thin Upper Sands directly on Lower Mottled Sandstone, not separated by lacustrine deposits as in the Honnington Grange area.

Augering programme - B30 power auger

Honnington and Donnington area

SJ17SW/31-3

Donnington A1 SJ 7056 1469 SJ71SW/34.

- 0-3'. Late glacial lacustrine deposit; clay, medium yellow-grey; soft sandy, unbedded.  
5-12'. Upper Boulder Clay: boulder clay, rich purple-brown; rather soft sandy, pebbly.  
13-48'. Middle Sands: sand, medium brown; largely LMS material, also m: angular grains, small shell fragments; few pebbles to 2cm main: quartz. Harder at 24', harder from 28'-33', hard at 44'. Coarse downwards, with larger pebbles, to 5cm, including ?Cretaceous and rounded grit olasts.

Donnington A2 SJ 7122 1438. SJ71SW/35.

- 0-8'. Top few feet sandy soil, feather edge of a large outcrop of Lower Mottled Sandstone.  
8-35'. Lower Mottled Sandstone: Sand, red and yellow, rounded frosted. Change at 21', to yellow coarse sand with pieces to 2cm of hard sandstone (rounded grains in siliceous matrix); few small clay patches. Becoming dark red and clayey at 33'. Hole abandoned at still drilling easily.

Honnington A1 SJ 7240 1448. SJ71SW/36.

- 0-3'. Sand, pale grey; soft, mixed angular material.  
3-8'. Boulder clay, then lacustrine clay.  
8-13'. Lacustrine clay to 12', then thin fine clayey sand, dark brown, very wet and runny, mixed angular grains, little Bunter material.  
13-20'. Sand as above. Drilling abandoned at 20' at an obstruction. Bit revealed Coal Measures dark grey mudstone.

Donnington

One hole was sunk to explore the extension of the glacial lake deposits mapped on the Lower Mottled Sandstone west of Honnington Grange. Twenty feet of drift were recorded, sand resting on a thin boulder clay, then lacustrine clay and sand. At 20' (6.1m) Coal Measures mudstones were encountered. At this point the published map shows drift-free Basal Coal Measures Sandstone.

Donnington, Hoo Hall, Trench

Five holes were sunk to investigate the drift deposits between Donnington and Lubstree, where solid Lower Mottled Sandstone outcrops, the Trench Borehole where only thin drift is recorded. A deep drift-free depression was found, contrasting with the Honnington area, where only drifts are mapped capping the higher ground. The succession revealed is follows:-

- Upper Sands; loose gravelly sand and clayey sand; recorded only in Trench A1 and Donnington A2, maximum thickness drilled (1.2m), but mapped over large areas inaccessible to the  
Upper Boulder Clay; chocolate brown pebbly clay, maximum thickness recorded 1' (4.0m) at Hoo Hall A1 and A3.  
Laminated lake clay; Hoo Hall A1 only.  
Middle Sands; wet brown sand, gravelly below; maximum thickness recorded 35' (10.6m) in Donnington A1.  
Lower Boulder Clay; hard clay with small pebbles, as recorded at C Oak (see below); Hoo Hall A1 and A3 only, maximum thickness recorded 9' (2.7m).  
Laminated lake clay - Hoo Hall A3 only.  
Donnington A2 lay on the feather edge of the depression; this revealed thin Upper Sands directly on Lower Mottled Sandstone, not separated by lacustrine deposits as in the Honnington Grange area.



[illegible]

**GROUNDWORKS (Soil Mechanics) Ltd.**



British Geological Survey

British Geological Survey

British Geological Survey

BOREHOLE RECORD (SCALE - 1:50 m)		BORING COMMENCED 21.5.83 BORING COMPLETED 21.5.83 GROUND LEVEL 68.86A ± 0.3		TYPE OF BORING 6 BLS PERFORATION DIAMETER OF BORING 150mm BORING CASE NO. 1013		CLIENT TELEFORD DEVELOPMENT CORPORATION		SITE AS18 DIVERSION PHASE 2 BORING NO. 20 SHEET 1 OF 1	
DRILLING		SAMPLES		MOISTURE PROPERTIES		DENSITIES		COMPRESSIVE TESTS	
DEPTH (m)	LOG	DEPTH (m)	LOG	W <sub>t</sub> (%)	W <sub>p</sub> (%)	ρ <sub>d</sub> (g/cm <sup>3</sup> )	ρ <sub>w</sub> (g/cm <sup>3</sup> )	σ <sub>1</sub> (kN/m <sup>2</sup> )	σ <sub>3</sub> (kN/m <sup>2</sup> )
0.00	Top of fill	0.00	68.86	61					
1.00	1.00	64.86	61						
2.00	2.00	62.86	61						
3.00	3.00	60.86	61						
4.00	4.00	58.86	61						
5.00	5.00	56.86	61						
6.00	6.00	54.86	61						
7.00	7.00	52.86	61						
8.00	8.00	50.86	61						
9.00	9.00	48.86	61						
10.00	10.00	46.86	61						
11.00	11.00	44.86	61						
12.00	12.00	42.86	61						
13.00	13.00	40.86	61						
14.00	14.00	38.86	61						
15.00	15.00	36.86	61						
16.00	16.00	34.86	61						
17.00	17.00	32.86	61						
18.00	18.00	30.86	61						
19.00	19.00	28.86	61						
20.00	20.00	26.86	61						
21.00	21.00	24.86	61						
22.00	22.00	22.86	61						
23.00	23.00	20.86	61						
24.00	24.00	18.86	61						
25.00	25.00	16.86	61						
26.00	26.00	14.86	61						
27.00	27.00	12.86	61						
28.00	28.00	10.86	61						
29.00	29.00	8.86	61						
30.00	30.00	6.86	61						
31.00	31.00	4.86	61						
32.00	32.00	2.86	61						
33.00	33.00	0.86	61						
34.00	34.00	0.00	61						
35.00	35.00	0.00	61						
36.00	36.00	0.00	61						
37.00	37.00	0.00	61						
38.00	38.00	0.00	61						
39.00	39.00	0.00	61						
40.00	40.00	0.00	61						
41.00	41.00	0.00	61						
42.00	42.00	0.00	61						
43.00	43.00	0.00	61						
44.00	44.00	0.00	61						
45.00	45.00	0.00	61						
46.00	46.00	0.00	61						
47.00	47.00	0.00	61						
48.00	48.00	0.00	61						
49.00	49.00	0.00	61						
50.00	50.00	0.00	61						
51.00	51.00	0.00	61						
52.00	52.00	0.00	61						
53.00	53.00	0.00	61						
54.00	54.00	0.00	61						
55.00	55.00	0.00	61						
56.00	56.00	0.00	61						
57.00	57.00	0.00	61						
58.00	58.00	0.00	61						
59.00	59.00	0.00	61						
60.00	60.00	0.00	61						
61.00	61.00	0.00	61						
62.00	62.00	0.00	61						
63.00	63.00	0.00	61						
64.00	64.00	0.00	61						
65.00	65.00	0.00	61						
66.00	66.00	0.00	61						
67.00	67.00	0.00	61						
68.00	68.00	0.00	61						
69.00	69.00	0.00	61						
70.00	70.00	0.00	61						
71.00	71.00	0.00	61						
72.00	72.00	0.00	61						
73.00	73.00	0.00	61						
74.00	74.00	0.00	61						
75.00	75.00	0.00	61						
76.00	76.00	0.00	61						
77.00	77.00	0.00	61						
78.00	78.00	0.00	61						
79.00	79.00	0.00	61						
80.00	80.00	0.00	61						
81.00	81.00	0.00	61						
82.00	82.00	0.00	61						
83.00	83.00	0.00	61						
84.00	84.00	0.00	61						
85.00	85.00	0.00	61						
86.00	86.00	0.00	61						
87.00	87.00	0.00	61						
88.00	88.00	0.00	61						
89.00	89.00	0.00	61						
90.00	90.00	0.00	61						
91.00	91.00	0.00	61						
92.00	92.00	0.00	61						
93.00	93.00	0.00	61						
94.00	94.00	0.00	61						
95.00	95.00	0.00	61						
96.00	96.00	0.00	61						
97.00	97.00	0.00	61						
98.00	98.00	0.00	61						
99.00	99.00	0.00	61						
100.00	100.00	0.00	61						

Notes: 1. All samples are from the same borehole. 2. The borehole was drilled to a depth of 3.0m. 3. The borehole was sealed with bentonite. 4. The borehole was sealed with bentonite. 5. The borehole was sealed with bentonite. 6. The borehole was sealed with bentonite. 7. The borehole was sealed with bentonite. 8. The borehole was sealed with bentonite. 9. The borehole was sealed with bentonite. 10. The borehole was sealed with bentonite. 11. The borehole was sealed with bentonite. 12. The borehole was sealed with bentonite. 13. The borehole was sealed with bentonite. 14. The borehole was sealed with bentonite. 15. The borehole was sealed with bentonite. 16. The borehole was sealed with bentonite. 17. The borehole was sealed with bentonite. 18. The borehole was sealed with bentonite. 19. The borehole was sealed with bentonite. 20. The borehole was sealed with bentonite. 21. The borehole was sealed with bentonite. 22. The borehole was sealed with bentonite. 23. The borehole was sealed with bentonite. 24. The borehole was sealed with bentonite. 25. The borehole was sealed with bentonite. 26. The borehole was sealed with bentonite. 27. The borehole was sealed with bentonite. 28. The borehole was sealed with bentonite. 29. The borehole was sealed with bentonite. 30. The borehole was sealed with bentonite. 31. The borehole was sealed with bentonite. 32. The borehole was sealed with bentonite. 33. The borehole was sealed with bentonite. 34. The borehole was sealed with bentonite. 35. The borehole was sealed with bentonite. 36. The borehole was sealed with bentonite. 37. The borehole was sealed with bentonite. 38. The borehole was sealed with bentonite. 39. The borehole was sealed with bentonite. 40. The borehole was sealed with bentonite. 41. The borehole was sealed with bentonite. 42. The borehole was sealed with bentonite. 43. The borehole was sealed with bentonite. 44. The borehole was sealed with bentonite. 45. The borehole was sealed with bentonite. 46. The borehole was sealed with bentonite. 47. The borehole was sealed with bentonite. 48. The borehole was sealed with bentonite. 49. The borehole was sealed with bentonite. 50. The borehole was sealed with bentonite. 51. The borehole was sealed with bentonite. 52. The borehole was sealed with bentonite. 53. The borehole was sealed with bentonite. 54. The borehole was sealed with bentonite. 55. The borehole was sealed with bentonite. 56. The borehole was sealed with bentonite. 57. The borehole was sealed with bentonite. 58. The borehole was sealed with bentonite. 59. The borehole was sealed with bentonite. 60. The borehole was sealed with bentonite. 61. The borehole was sealed with bentonite. 62. The borehole was sealed with bentonite. 63. The borehole was sealed with bentonite. 64. The borehole was sealed with bentonite. 65. The borehole was sealed with bentonite. 66. The borehole was sealed with bentonite. 67. The borehole was sealed with bentonite. 68. The borehole was sealed with bentonite. 69. The borehole was sealed with bentonite. 70. The borehole was sealed with bentonite. 71. The borehole was sealed with bentonite. 72. The borehole was sealed with bentonite. 73. The borehole was sealed with bentonite. 74. The borehole was sealed with bentonite. 75. The borehole was sealed with bentonite. 76. The borehole was sealed with bentonite. 77. The borehole was sealed with bentonite. 78. The borehole was sealed with bentonite. 79. The borehole was sealed with bentonite. 80. The borehole was sealed with bentonite. 81. The borehole was sealed with bentonite. 82. The borehole was sealed with bentonite. 83. The borehole was sealed with bentonite. 84. The borehole was sealed with bentonite. 85. The borehole was sealed with bentonite. 86. The borehole was sealed with bentonite. 87. The borehole was sealed with bentonite. 88. The borehole was sealed with bentonite. 89. The borehole was sealed with bentonite. 90. The borehole was sealed with bentonite. 91. The borehole was sealed with bentonite. 92. The borehole was sealed with bentonite. 93. The borehole was sealed with bentonite. 94. The borehole was sealed with bentonite. 95. The borehole was sealed with bentonite. 96. The borehole was sealed with bentonite. 97. The borehole was sealed with bentonite. 98. The borehole was sealed with bentonite. 99. The borehole was sealed with bentonite. 100. The borehole was sealed with bentonite.

KEY: 1. GROUNDWATER LEVEL IN SHIELD 2. FINAL GROUNDWATER LEVEL 3. STRONG 4. PLASTER 5. WATER SAMPLE 6. BACK SAMPLE 7. SANDWATER SAMPLE 8. UNDERSIZED SAMPLE 9. REMOVED SPONGE 10. NATURAL MOISTURE CONTENT 11. TEST RESULT 12. PLASTICITY INDEX 13. PLASTICITY INDEX 14. PLASTICITY INDEX 15. PLASTICITY INDEX 16. PLASTICITY INDEX 17. PLASTICITY INDEX 18. PLASTICITY INDEX 19. PLASTICITY INDEX 20. PLASTICITY INDEX 21. PLASTICITY INDEX 22. PLASTICITY INDEX 23. PLASTICITY INDEX 24. PLASTICITY INDEX 25. PLASTICITY INDEX 26. PLASTICITY INDEX 27. PLASTICITY INDEX 28. PLASTICITY INDEX 29. PLASTICITY INDEX 30. PLASTICITY INDEX 31. PLASTICITY INDEX 32. PLASTICITY INDEX 33. PLASTICITY INDEX 34. PLASTICITY INDEX 35. PLASTICITY INDEX 36. PLASTICITY INDEX 37. PLASTICITY INDEX 38. PLASTICITY INDEX 39. PLASTICITY INDEX 40. PLASTICITY INDEX 41. PLASTICITY INDEX 42. PLASTICITY INDEX 43. PLASTICITY INDEX 44. PLASTICITY INDEX 45. PLASTICITY INDEX 46. PLASTICITY INDEX 47. PLASTICITY INDEX 48. PLASTICITY INDEX 49. PLASTICITY INDEX 50. PLASTICITY INDEX 51. PLASTICITY INDEX 52. PLASTICITY INDEX 53. PLASTICITY INDEX 54. PLASTICITY INDEX 55. PLASTICITY INDEX 56. PLASTICITY INDEX 57. PLASTICITY INDEX 58. PLASTICITY INDEX 59. PLASTICITY INDEX 60. PLASTICITY INDEX 61. PLASTICITY INDEX 62. PLASTICITY INDEX 63. PLASTICITY INDEX 64. PLASTICITY INDEX 65. PLASTICITY INDEX 66. PLASTICITY INDEX 67. PLASTICITY INDEX 68. PLASTICITY INDEX 69. PLASTICITY INDEX 70. PLASTICITY INDEX 71. PLASTICITY INDEX 72. PLASTICITY INDEX 73. PLASTICITY INDEX 74. PLASTICITY INDEX 75. PLASTICITY INDEX 76. PLASTICITY INDEX 77. PLASTICITY INDEX 78. PLASTICITY INDEX 79. PLASTICITY INDEX 80. PLASTICITY INDEX 81. PLASTICITY INDEX 82. PLASTICITY INDEX 83. PLASTICITY INDEX 84. PLASTICITY INDEX 85. PLASTICITY INDEX 86. PLASTICITY INDEX 87. PLASTICITY INDEX 88. PLASTICITY INDEX 89. PLASTICITY INDEX 90. PLASTICITY INDEX 91. PLASTICITY INDEX 92. PLASTICITY INDEX 93. PLASTICITY INDEX 94. PLASTICITY INDEX 95. PLASTICITY INDEX 96. PLASTICITY INDEX 97. PLASTICITY INDEX 98. PLASTICITY INDEX 99. PLASTICITY INDEX 100. PLASTICITY INDEX

GROUNDWORKS (Soil Mechanics) Ltd.



British Geological Survey

British Geological Survey

British Geological Survey

BOREHOLE RECORD (SCALE: 1:50 m)		BOREHOLE COMMENCED: 23.5.83 BOREHOLE COMPLETED: 31.5.83 GROUND LEVEL: 69.80m A.O.D.		TYPE OF BORING: CASE PERCUSSION DIAMETER OF BORING: 150mm BOREHOLE CASING: USED TO A DEPTH OF 1.70m		CLIENT: TELFORD DEVELOPMENT CORPORATION		SITE: A518 DIVERSION PHASE 2 BORING NO: 21 SHEET: 1 OF 1	
DRILL LOG		SAMPLES		RESULTS OF TESTS		RESULTS OF TESTS		RESULTS OF TESTS	
DEPTH (m)	DESCRIPTION	DEPTH (m)	DEPTH (m)	DEPTH (m)	DEPTH (m)	DEPTH (m)	DEPTH (m)	DEPTH (m)	DEPTH (m)
0.00	TOPSOIL	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
0.50	FILL: Below wetted clayey silt fine sandstone mixed with some interbedded topsoil material and occasional coal and oak fragments.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	Medium dense to dense brown slightly clayey silty fine medium sand.	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1.50	1.50 with some subangular to subrounded gravel. (GLACIAL)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
2.00	Highly weathered 100% weak crystalline rock, poorly consolidated silty fine medium sandstone. (GLACIAL)	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
2.50	Boreshole Complete No water encountered Borehole dry 7.0.83.								
<p>KEY: 1. GROUNDWATER LEVEL IN STRUCK 2. FINAL GROUNDWATER LEVEL 3. SAMPLE 4. PNEUMATIC 5. WATER SAMPLE 6. BOREHOLE</p> <p>7. TWO DIAMETER SAMPLE 8. UNDISTURBED SAMPLE 9. REMOVED SPECIMEN 10. NATURAL MOISTURE CONTENT 11. LIQUIDITY 12. PLASTICITY</p> <p>13. PLASTICITY INDEX 14. STANDARD OR CODE PENETRATION TEST RESULTS 15. UNOBTAINED TRAXIAL 16. MULTI-TEST 17. UNOBTAINED TRAXIAL</p> <p>18. GRAVITY TRAXIAL 19. COMPOUND 20. UNOBTAINED TRAXIAL 21. UNOBTAINED TRAXIAL 22. UNOBTAINED TRAXIAL</p> <p>23. STANDARD PENETRATION TEST 24. COMBINATION TEST 25. VANE TEST 26. SQUARE BEAM PILE TEST</p>									

GROUNDWORKS (Soil Mechanics) Ltd.



Downloaded from <http://ajphaphysiol.physiology.org/> at University of California, San Diego on September 11, 2012

GEOUNWORKS (Soil Mechanics) Ltd. 



British Geological Survey

British Geological Survey

British Geological Survey

BOREHOLE RECORD (SCALE: 1:50 m)		BORING COMMENCED: 20.5.83 BORING COMPLETED: 24.5.83 GROUNDLEVEL: 79.90m A.D.B.		TYPE OF BORING: CABLE PERMANENT DIAMETER OF BORING: 150mm BORING CASE: USED TO A DEPTH OF 2.20m		CLIENT: ILLFORD DEVELOPMENT CORPORATION		SITE: A518 DIVERSION PHASE 2 AND 3 BOREHOLE: 22 SHEET: 1 OF 3		
DRILLING		SAMPLES		RESULTS OF TESTS						
DESCRIPTION OF STRATA	DEPTH (m)	TESTS	TESTS	MOISTURE PROPERTIES			DENSITY		STRENGTH TESTS	
		WATER CONTENT (%)	SHRINKAGE (%)	W	PL	LL	RD	RD	RD	RD
TOPSOIL.	0.00	70.80	0.30							
FILL - Orange-brown and red-brown silty fine medium sand with some (sparsely) material.	0.70	10.00	1.00							
Medium dense brown silty fine medium sand coarse SAND with very occasional subrounded GRAVEL.	2.00		2.00							
(GLACIAL).										
Highly weathered, very soft friable, red brown, poorly cemented slightly silty silty fine medium coarse coarse SANDSTONE with very occasional subangular GRAVEL.	3.00	41.30	2.00							
(WELL-GROWN SANDSTONE).										
Borehole Complete.										
No water encountered.										
Borehole dry 7.8m										

<b>KEY</b> V - GROUNDWATER LEVEL IN STRUCK W - FINAL GROUNDWATER LEVEL A - STATIONING P - PNEUMATIC W - WATER SAMPLE B - BURN SAMPLE	S - STANDARD SAMPLE U - UNSTANDARD SAMPLE R - REMOVED SPECIMEN MC - MECHANICAL CONTENT LL - LIQUID LIMIT PL - PLASTIC LIMIT	PE - PLASTICITY INDEX N - STANDARD OR CODE F - PLASTICITY TEST RESULT T - UNSATURATED TRIAXIAL M - MECHANICAL UNSATURATED TRIAXIAL	G - GRADED TRIAXIAL CO - GRADED TRIAXIAL CU - GRADED TRIAXIAL UN - GRADED TRIAXIAL UN - UNGRADED TRIAXIAL	S - STANDARD PENETRATION TEST U - OTHER PENETRATION TEST V - VIBRO TEST SQ - SQUISH TEST R - RIGIDITY
--	--	---	---	---

**GROUNDWORKS (Soil Mechanics) Ltd.**



British Geological Survey

British Geological Survey

British Geological Survey

BOREHOLE RECORD (SCALE 1:50 M)		BORING COMMENCED 19/5/83 BORING COMPLETED 21/5/83 GROUNDLEVEL 78.50m A.D.D.		TYPE OF BORING Cable Percussion DIAMETER OF BORING 150mm BOREHOLE CASING Lead to a depth of 2.00m		CLIENT: T. C. C. Development Corporation		DATE: 1918 Diversion, Phase 2 and 3 BOREHOLE: 258 SHEET 1 OF 1	
DAILING		SAMPLES		RESULTS OF TESTS		SOUNDNESS TESTS		STANDARD PENETRATION TEST	
DEPTH (m)	DESCRIPTION	NO.	DATE	TEST	RESULT	TEST	RESULT	TEST	RESULT
0.00	CL. 10.50	1	19/5/83	PL	10.50	1	10.50	1	10.50
0.50	0.50 10.50 0.50 10	2	19/5/83	PL	10.50	2	10.50	2	10.50
1.00	1.00 10.50 1.00 10	3	19/5/83	PL	10.50	3	10.50	3	10.50
1.50	1.50 10.50 1.50 10	4	19/5/83	PL	10.50	4	10.50	4	10.50
2.00	2.00 10.50 2.00 10	5	19/5/83	PL	10.50	5	10.50	5	10.50
2.50	2.50 10.50 2.50 10	6	19/5/83	PL	10.50	6	10.50	6	10.50
3.00	3.00 10.50 3.00 10	7	19/5/83	PL	10.50	7	10.50	7	10.50
3.50	3.50 10.50 3.50 10	8	19/5/83	PL	10.50	8	10.50	8	10.50
4.00	4.00 10.50 4.00 10	9	19/5/83	PL	10.50	9	10.50	9	10.50
4.50	4.50 10.50 4.50 10	10	19/5/83	PL	10.50	10	10.50	10	10.50
5.00	5.00 10.50 5.00 10	11	19/5/83	PL	10.50	11	10.50	11	10.50
5.50	5.50 10.50 5.50 10	12	19/5/83	PL	10.50	12	10.50	12	10.50
6.00	6.00 10.50 6.00 10	13	19/5/83	PL	10.50	13	10.50	13	10.50
6.50	6.50 10.50 6.50 10	14	19/5/83	PL	10.50	14	10.50	14	10.50
7.00	7.00 10.50 7.00 10	15	19/5/83	PL	10.50	15	10.50	15	10.50
7.50	7.50 10.50 7.50 10	16	19/5/83	PL	10.50	16	10.50	16	10.50
8.00	8.00 10.50 8.00 10	17	19/5/83	PL	10.50	17	10.50	17	10.50
8.50	8.50 10.50 8.50 10	18	19/5/83	PL	10.50	18	10.50	18	10.50
9.00	9.00 10.50 9.00 10	19	19/5/83	PL	10.50	19	10.50	19	10.50
9.50	9.50 10.50 9.50 10	20	19/5/83	PL	10.50	20	10.50	20	10.50
10.00	10.00 10.50 10.00 10	21	19/5/83	PL	10.50	21	10.50	21	10.50
10.50	10.50 10.50 10.50 10	22	19/5/83	PL	10.50	22	10.50	22	10.50
11.00	11.00 10.50 11.00 10	23	19/5/83	PL	10.50	23	10.50	23	10.50
11.50	11.50 10.50 11.50 10	24	19/5/83	PL	10.50	24	10.50	24	10.50
12.00	12.00 10.50 12.00 10	25	19/5/83	PL	10.50	25	10.50	25	10.50
12.50	12.50 10.50 12.50 10	26	19/5/83	PL	10.50	26	10.50	26	10.50
13.00	13.00 10.50 13.00 10	27	19/5/83	PL	10.50	27	10.50	27	10.50
13.50	13.50 10.50 13.50 10	28	19/5/83	PL	10.50	28	10.50	28	10.50
14.00	14.00 10.50 14.00 10	29	19/5/83	PL	10.50	29	10.50	29	10.50
14.50	14.50 10.50 14.50 10	30	19/5/83	PL	10.50	30	10.50	30	10.50
15.00	15.00 10.50 15.00 10	31	19/5/83	PL	10.50	31	10.50	31	10.50
15.50	15.50 10.50 15.50 10	32	19/5/83	PL	10.50	32	10.50	32	10.50
16.00	16.00 10.50 16.00 10	33	19/5/83	PL	10.50	33	10.50	33	10.50
16.50	16.50 10.50 16.50 10	34	19/5/83	PL	10.50	34	10.50	34	10.50
17.00	17.00 10.50 17.00 10	35	19/5/83	PL	10.50	35	10.50	35	10.50

Notes: 1. Borehole completed 21/5/83. 2. Borehole dry 7/6/83. 3. Borehole completed 21/5/83. 4. Borehole dry 7/6/83. 5. Borehole completed 21/5/83. 6. Borehole dry 7/6/83. 7. Borehole completed 21/5/83. 8. Borehole dry 7/6/83. 9. Borehole completed 21/5/83. 10. Borehole dry 7/6/83. 11. Borehole completed 21/5/83. 12. Borehole dry 7/6/83. 13. Borehole completed 21/5/83. 14. Borehole dry 7/6/83. 15. Borehole completed 21/5/83. 16. Borehole dry 7/6/83. 17. Borehole completed 21/5/83. 18. Borehole dry 7/6/83. 19. Borehole completed 21/5/83. 20. Borehole dry 7/6/83. 21. Borehole completed 21/5/83. 22. Borehole dry 7/6/83. 23. Borehole completed 21/5/83. 24. Borehole dry 7/6/83. 25. Borehole completed 21/5/83. 26. Borehole dry 7/6/83. 27. Borehole completed 21/5/83. 28. Borehole dry 7/6/83. 29. Borehole completed 21/5/83. 30. Borehole dry 7/6/83. 31. Borehole completed 21/5/83. 32. Borehole dry 7/6/83. 33. Borehole completed 21/5/83. 34. Borehole dry 7/6/83. 35. Borehole completed 21/5/83. 36. Borehole dry 7/6/83. 37. Borehole completed 21/5/83. 38. Borehole dry 7/6/83. 39. Borehole completed 21/5/83. 40. Borehole dry 7/6/83. 41. Borehole completed 21/5/83. 42. Borehole dry 7/6/83. 43. Borehole completed 21/5/83. 44. Borehole dry 7/6/83. 45. Borehole completed 21/5/83. 46. Borehole dry 7/6/83. 47. Borehole completed 21/5/83. 48. Borehole dry 7/6/83. 49. Borehole completed 21/5/83. 50. Borehole dry 7/6/83. 51. Borehole completed 21/5/83. 52. Borehole dry 7/6/83. 53. Borehole completed 21/5/83. 54. Borehole dry 7/6/83. 55. Borehole completed 21/5/83. 56. Borehole dry 7/6/83. 57. Borehole completed 21/5/83. 58. Borehole dry 7/6/83. 59. Borehole completed 21/5/83. 60. Borehole dry 7/6/83. 61. Borehole completed 21/5/83. 62. Borehole dry 7/6/83. 63. Borehole completed 21/5/83. 64. Borehole dry 7/6/83. 65. Borehole completed 21/5/83. 66. Borehole dry 7/6/83. 67. Borehole completed 21/5/83. 68. Borehole dry 7/6/83. 69. Borehole completed 21/5/83. 70. Borehole dry 7/6/83. 71. Borehole completed 21/5/83. 72. Borehole dry 7/6/83. 73. Borehole completed 21/5/83. 74. Borehole dry 7/6/83. 75. Borehole completed 21/5/83. 76. Borehole dry 7/6/83. 77. Borehole completed 21/5/83. 78. Borehole dry 7/6/83. 79. Borehole completed 21/5/83. 80. Borehole dry 7/6/83. 81. Borehole completed 21/5/83. 82. Borehole dry 7/6/83. 83. Borehole completed 21/5/83. 84. Borehole dry 7/6/83. 85. Borehole completed 21/5/83. 86. Borehole dry 7/6/83. 87. Borehole completed 21/5/83. 88. Borehole dry 7/6/83. 89. Borehole completed 21/5/83. 90. Borehole dry 7/6/83. 91. Borehole completed 21/5/83. 92. Borehole dry 7/6/83. 93. Borehole completed 21/5/83. 94. Borehole dry 7/6/83. 95. Borehole completed 21/5/83. 96. Borehole dry 7/6/83. 97. Borehole completed 21/5/83. 98. Borehole dry 7/6/83. 99. Borehole completed 21/5/83. 100. Borehole dry 7/6/83.

KEY: 1. BOREHOLE LEVEL IN STAKE 2. FINAL GROUND WATER LEVEL 3. SAMPLE 4. SAMPLE 5. SAMPLE 6. SAMPLE 7. SAMPLE 8. SAMPLE 9. SAMPLE 10. SAMPLE 11. SAMPLE 12. SAMPLE 13. SAMPLE 14. SAMPLE 15. SAMPLE 16. SAMPLE 17. SAMPLE 18. SAMPLE 19. SAMPLE 20. SAMPLE 21. SAMPLE 22. SAMPLE 23. SAMPLE 24. SAMPLE 25. SAMPLE 26. SAMPLE 27. SAMPLE 28. SAMPLE 29. SAMPLE 30. SAMPLE 31. SAMPLE 32. SAMPLE 33. SAMPLE 34. SAMPLE 35. SAMPLE 36. SAMPLE 37. SAMPLE 38. SAMPLE 39. SAMPLE 40. SAMPLE 41. SAMPLE 42. SAMPLE 43. SAMPLE 44. SAMPLE 45. SAMPLE 46. SAMPLE 47. SAMPLE 48. SAMPLE 49. SAMPLE 50. SAMPLE 51. SAMPLE 52. SAMPLE 53. SAMPLE 54. SAMPLE 55. SAMPLE 56. SAMPLE 57. SAMPLE 58. SAMPLE 59. SAMPLE 60. SAMPLE 61. SAMPLE 62. SAMPLE 63. SAMPLE 64. SAMPLE 65. SAMPLE 66. SAMPLE 67. SAMPLE 68. SAMPLE 69. SAMPLE 70. SAMPLE 71. SAMPLE 72. SAMPLE 73. SAMPLE 74. SAMPLE 75. SAMPLE 76. SAMPLE 77. SAMPLE 78. SAMPLE 79. SAMPLE 80. SAMPLE 81. SAMPLE 82. SAMPLE 83. SAMPLE 84. SAMPLE 85. SAMPLE 86. SAMPLE 87. SAMPLE 88. SAMPLE 89. SAMPLE 90. SAMPLE 91. SAMPLE 92. SAMPLE 93. SAMPLE 94. SAMPLE 95. SAMPLE 96. SAMPLE 97. SAMPLE 98. SAMPLE 99. SAMPLE 100. SAMPLE

GROUNDWORKS (Soil Mechanics) Ltd.



[illegible]

**GROUNDWORKS (Soil Mechanics) Ltd.**



**Keywords:** child abuse; child sexual abuse; child neglect

**GROUNDWORKS (Soil Mechanics) Ltd.**



144486 (continued)

Example 1. Let  $\mathcal{C} = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$  and

[illegible]

BOREHOLE RECORD

(SCALE = 1:50 m)

FORM NO. ENGINEERING, PHASE 2, 1972  
 BORING COMPLETED 31.5.83  
 GROUNDLEVEL 69.50m A.S.L.P.

TYPE OF BORING: PASTE PEXIDON  
 DIAMETER OF BORING: 150mm  
 BORING CASE: 1500 TO 2000 OF 3.2m

CLIENT: ARIZONA STATE UNIVERSITY  
 TITLE: SOIL INVESTIGATION  
 CONFIRMATION:

SITE A-518 UNIVERSITY, PHOENIX, AZ 85024  
 BOREHOLE: 15  
 SHEET: 1 OF 1

DRILLING

SAMPLES

RESULTS OF TESTS

DESCRIPTION OF TEST	TEST NO.	TEST NAME	DEPTH (m)	MOISTURE (%)	SPLIN	CPL	MOISTURE PROPERTIES				STRENGTH TESTS				STRENGTH TESTS
							W (%)	L (%)	PL (%)	PI (%)	W (%)	PL (%)	PI (%)	PI (%)	
FILL - Yellow dense dark grey black silty clay with much ash, slag and metal fragments. Slightly in place with occasional root material.			C-1 15.90	6.1	8.1										W - 7.5 Total 10.5 x 0.0
			C-2 15.90	0.50	0.2										
			C-3 15.90	1.35	0.3	10.0	4	14.7				2199	2810	100	124
			C-4 15.90	1.95	0.6										
			C-5 15.90	2.10	0.6	5									
			C-6 15.90	3.50	0.6										
			C-7 15.90	4.75	0.9										
			C-8 15.90	6.45											
Drillable completely.															
Drillable completely.															

KEY

- U - UNDESIGNED SAMPLE
- W - WATER SAMPLE
- B - BULK SAMPLE
- P - PLASTICITY INDEX
- U - UNDESIGNED SAMPLE
- W - WATER SAMPLE
- B - BULK SAMPLE
- P - PLASTICITY INDEX

- U - UNDESIGNED SAMPLE
- W - WATER SAMPLE
- B - BULK SAMPLE
- P - PLASTICITY INDEX
- U - UNDESIGNED SAMPLE
- W - WATER SAMPLE
- B - BULK SAMPLE
- P - PLASTICITY INDEX

- U - UNDESIGNED SAMPLE
- W - WATER SAMPLE
- B - BULK SAMPLE
- P - PLASTICITY INDEX
- U - UNDESIGNED SAMPLE
- W - WATER SAMPLE
- B - BULK SAMPLE
- P - PLASTICITY INDEX

- U - UNDESIGNED SAMPLE
- W - WATER SAMPLE
- B - BULK SAMPLE
- P - PLASTICITY INDEX
- U - UNDESIGNED SAMPLE
- W - WATER SAMPLE
- B - BULK SAMPLE
- P - PLASTICITY INDEX

- U - UNDESIGNED SAMPLE
- W - WATER SAMPLE
- B - BULK SAMPLE
- P - PLASTICITY INDEX
- U - UNDESIGNED SAMPLE
- W - WATER SAMPLE
- B - BULK SAMPLE
- P - PLASTICITY INDEX

GROUNDWORKS (Soil Mechanics) Ltd.







## Rayet, Harjot

---

**From:** Mark North [mark.north@mineralproducts.org]  
**Sent:** 06 March 2017 10:40  
**To:** Rayet, Harjot  
**Subject:** FW: Telford and Wrekin Council EiP  
**Attachments:** Telford and Wrekin Modifications - objections of MPA, March 2017.pdf

Dear Harjot

I refer to your call earlier today

To clarify the MPA are now content with the council's revised position on safeguarding .

Best wishes  
Mark

**Mark E North**

Director of Planning-Aggregates and Production  
Mineral Products Association

Registered Office: 38-44 Gillingham Street, London, SW1V 1HU

**T** 0207 963 8011 **M** 07568 427719 **W** [www.mineralproducts.org](http://www.mineralproducts.org) **F** 0207 963 8001



Follow MPA's Twitter:

<https://twitter.com/MineralProduct>



**make the link**  
to mineral products

---

**From:** Mark North  
**Sent:** 06 March 2017 08:41  
**To:** 'Rayet, Harjot'  
**Subject:** RE: Telford and Wrekin Council EiP

Dear Harjot

I refer to your email below with attachments and subsequent telephone calls .

In respect of the safeguarding issue the Mineral Products Association has nothing further to add.

In respect of the strategic approach to minerals please see the attached response on behalf of the Mineral Products Association,

Yours sincerely

Mark

**Mark E North**

Director of Planning-Aggregates and Production  
Mineral Products Association





Follow MPA's Twitter:

<https://twitter.com/MineralProduct>



**make the link**  
to mineral products

**From:** Rayet, Harjot [<mailto:Harjot.Rayet@telford.gov.uk>]

**Sent:** 24 February 2017 16:28

**To:** Mark North

**Cc:** 'Adrian Cooper'; Maher, Vincent

**Subject:** Telford and Wrekin Council EiP

**Importance:** High

Dear Mr North

I understand that you have spoken to Adrian Cooper this morning and are aware of the particulars.

Many thanks for taking the time to talk with me, particularly given your current time constraints. As per our conversation, I am sending you this email. Below is a table, highlighting where the Inspector as requested further information on which we are required to liaise with the MPA:

<p>Council to consider Option 1: Show Minerals Safeguarding Areas across urban areas OR Option 2: providing additional evidence to justify why MSA are not shown across the urban areas (Telford and Newport).</p> <p>If option 2 then provide plan of historical mineral workings in the urban areas</p> <ul style="list-style-type: none"><li>• Provide any additional further evidence e.g. areas of mineral sterilised by subsequent development and show any pockets for potential mineral recovery that might remain.</li><li>• Show areas where mineral is no longer present in the urban areas</li><li>• Rewrite ER2 to reasoned justification paras 10.2.1.2 to 10.2.1.4 to set out revised approach to MSA's and clarify what the approach is to mineral extraction outside the MSA.</li><li>• Will require changes to the Policies Map.</li></ul> <p>Change the shadings for mineral buffer zones on the relevant maps – because not easily identified.</p>	<p>Council are minded to go with Option 2. We are providing mapped evidence to the Inspector providing evidence of mineral deposits in the urban areas of Telford and Newport. The built up area, section 7(1) consents and environmental impact. There are no viable economic pockets. This map is on <b>Monday</b>.</p> <p>Added a paragraph in ER2 to clarify workings of MSA in the area – see attached 'ER2 Mods.doc'</p>
<p>Review Statement of Common Ground with Mineral Products Association around issue of strategic approach to minerals planning in particular around LAA, Duty to Cooperate, minerals hierarchy etc.</p>	<p>See attached titled 'Modification to ER3 and ER4. We have now clarified our strategic approach to minerals and the original SoCG we signed with the MPA.</p>
<p>Add latest LAA from Shropshire AMR Nov 2016 to TWC evidence base</p>	<p>Can be found here: <a href="http://www.telford.gov.uk/downloads/file/5340/k24-local-aggregates-assessment-2015-16">http://www.telford.gov.uk/downloads/file/5340/k24-local-aggregates-assessment-2015-16</a></p>



If at all possible would you be able to respond by end of play 28 February 2017?

If you have any questions or queries please do not hesitate to contact me. I look forward to hearing from you.

Kind regards

Harjot Rayet  
Senior Policy Officer

Environment & Planning Policy Team  
Development Management  
Telford & Wrekin Council  
1<sup>st</sup> Floor Upper, Wellington Civic Offices  
PO Box 457  
Telford  
TF2 2FH

Tel: 01952 384219

Email: [harjot.rayet@telford.gov.uk](mailto:harjot.rayet@telford.gov.uk)

[www.telford.gov.uk](http://www.telford.gov.uk)

The information in this message is confidential. It is intended solely for the addressee. Access to this message by anyone else is unauthorised. If you are not the intended recipient, any disclosure, copying, distribution or any action taken or omitted to be taken in reliance on it is prohibited and may be unlawful. We do not accept legal responsibility for the contents of this message and whilst any attachments to this message may have been checked for viruses, you should rely on your own virus checker and procedures. If you contact us by email, we will store your name and address to facilitate communications. Any statements contained herein are those of the individual and not the organisation. Registered in England as Mineral Products Association Limited: 1634996, Gillingham House, 38-44 Gillingham Street, London, SW1V 1HU