

M A N C E T T E R T I L E R E P O R T

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Introduction

This report on the tile from Ms K Hartley's excavations at Mancetter, Warwickshire was completed while the author was employed by Warwickshire County Council.

The assistance of Paul Booth and other members of the Archaeology Section is gratefully acknowledged.

Fabrics

Introduction

Seven major fabric divisions were recognised visually principally on the basis of texture and hardness, colour may be indicative but shows wide variation. None of the fabrics has been subjected to further analysis, though given the complex geology of the Mancetter area, a wide range of non-plastic inclusions may be expected (see Williams 1978 and also Cook 1978).

Fabric 1

example W77 (17/23) 190

Orange to dull red but more usually orange, soft smooth to touch, easily scratched with finger nail.

1a as fabric 1 but with spots and streaks of white clay.

Fabric 2

example W (17/23) 190

Orange to dull red but more usually dull red than orange, harder than fabric 1, courser to touch but may have smoothed faces or edges.

2a as fabric 2 but reduced throughout.

2b as fabric 2 but with spots and streaks often of white clay.

Fabric 3

example W77 (17/23) 225

Medium hard, dark red, smooth.

3a as fabric 3 with white spots and streaks.

Fabric 4

example W77 (17/23) 129

As fabric 1 but lighter in colour and not as soft.

4a as fabric 4 but with occasional spots and streaks of white firing clay.

4b as fabric 4 but reduced throughout.

Fabric 5

Hard dark red/purple/grey.

Fabric 6

Similar to fabric 4a but cream coloured throughout.

Fabric 7

Hard, coarse fabric, various medium to large angular inclusions, most common being black.

Not a Roman fabric.

Conclusion

Much of the basis for these fabric divisions is due to variations in firing conditions, this being especially obvious at the extremes of fabrics 1 and 5.

The presence of white firing clay within a predominantly oxidised fabric is not very common but never the less may possibly be useful as a quick visual indicator of the origin of the Nuneaton area.

Dimensions

It has been shown recently (see Brodrigg 1987) that the dimensions of Roman tiles can vary widely though tending to concentrate within a narrower range than the extremes would suggest.

Due to the tiles fragmentation only thickness could be recorded. Within the range 11 mm to 31 mm tile types were either identified by diagnostic features or recorded as type unidentified. Tiles with a thickness of less than 11 mm and with no diagnostic features have been assumed to be box flue, tiles with a thickness greater than 30 mm and with no diagnostic features have been assumed to be flat tiles. This last assumption may not be valid since one sherd of tegulae had a thickness of 33 mm. However, this was exceptional and 7 mm thicker than the next thickest tegulae sherd.

| | Thickness |
|----------|---------------|
| Box Flue | 9 mm - 20 mm |
| Imbrices | 10 mm - 25 mm |
| Tegulae | 15 mm - 33 mm |
| Flats | 20 mm - 50 mm |

Dimensions of tiles from K Scott's excavations at Arbury (see Scott 1971 and Scott 1975) fall within the ranges of those of the Mancetter tiles.

Flange types

Seven different flange profiles on tegulae have been recognised (refer to illustration). The reason for this variety is unknown and it has been recorded without comment as it may well have some as yet unrecognised significance.

| | | | | | |
|-------------|-----|-----|-----|-----|------|
| Flange type | 1 | 2 | 3 | 4 | 5 |
| Length (mm) | 760 | 535 | 580 | 455 | 2658 |

Combing

The study of comb profiles has been the subject of a paper by T Green (in McWhirr 1978) and from his comments there, and those recorded by S Foster in Ruddling 1986, it appears that the Mancetter assemblage is not well suited for such a study.

What has been recorded is a quick count of the number of teeth used to make a combed impression (comb tracks where less than the full width is present have been ignored). It should be noted that a record of the number of teeth used to make a combed impression is not necessarily the number of teeth on the comb used.

| | | |
|----------|-----------|--------|
| 3 teeth | 3 sherds | 190 g |
| 4 teeth | 27 sherds | 1450 g |
| 5 teeth | 23 sherds | 1120 g |
| 6 teeth | 5 sherds | 750 g |
| 7 teeth | 5 sherds | 250 g |
| 8 teeth | 17 sherds | 3610 g |
| 9 teeth | 6 sherds | 1090 g |
| 10 teeth | 1 sherd | 130 g |
| 12 teeth | 1 sherd | 80 g |

Possible origins

The tile from these excavations could have come to the site in one of three ways, as waste from tile manufacture, as roofing material or as re-used building material/rubble.

Given the lack of any substantial building the second and third options appear unlikely which leaves most evidence pointing towards the waste from tile manufacture. Tile is known to have been manufactured near the site (see Scott 1971 and 1975) and the presence of overfired and distorted wasters is evidence of manufacturing waste.

| Area | Number of sherds of wasters |
|------|-----------------------------|
| I | 1 |
| 1 | 1 |
| 3 | 1 |
| 11 | 12 |
| 20 | 1 |
| 20 | 1 |

The very soft fabric 1 may also represent manufacturing waste since such extreme softness may not have been a desirable feature.

Though the majority of the tile on the site may have been manufacturing waste, a tile with traces of mortar in area 22 context 113 and a sooted box flue in area 7/20 shows that some of the assemblage had been used.

There are obvious hazards in comparing one site with another, but the total quantity of tile 208.870kg when compared to the 2.25 plus metric tonnes from a recent excavated tiler (see Ruddling 1986) would suggest that if tile manufacture was carried out in the vicinity it was at some distance from the excavated areas.

Comparison with other tile from the Nuneaton Area

The clays of the Nuneaton area have long been exploited for both pottery and brick and tile production (see Gooder 1984).

In both size and fabric the Mancetter tiles are closely comparable with samples of tile from Arbury (see Scott 1971 and 1975) and Hartshill, which in view of their proximity is hardly surprising. A green glazed late medieval or early post-medieval tile from area 7/20 + had a fabric indistinguishable visually from fabric 2.

An interesting point possibly relevant to the occurrence of white firing clay in certain fabrics is a statute of Edward IV of 1477 cited in Gooder 1984 (p7).

"It provided that "earth" should be dug and thrown up before 1st November, stirred and turned before 1st February and not made into tiles before 1st March; that it should be rid of stones and that veins called "marle" or chalk should be thoroughly eliminated."

Possible uses of tile at Mancetter

It is impossible to say very much about the uses of tile on the site. One tile from area 17/23 context 210 was exposed to a very high temperature after manufacture. One sherd each from areas 7, 7/20, 33 and 34 have vitreous material adhering to their surface.

Appendix 1 Area Quantification

M65 I and I+ totals

Sherd number/weight (in grams)

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 1 | - | - | 2/660 | 1/470 | - |
| 2 | - | 1/110 | - | 4/210 | - |
| 2a | 1/80 | - | - | - | - |
| 3 | - | - | 1/50 | - | - |
| 4 | - | - | 1/170 | - | - |
| 6 | - | - | - | 1/30 | - |
| Total | 1/80 | 1/110 | 3/880 | 7/710 | - |

M65 II totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 1 | - | - | - | 1/30 | - |
| 2 | - | - | - | 1/30 | - |
| 4 | - | - | 2/90 | 1/30 | - |
| 5 | - | - | - | 1/60 | - |
| Total | - | - | 2/90 | 4/150 | - |

M65 III totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 2 | - | - | - | 2/100 | - |
| 4 | 1/90 | - | - | - | - |
| Total | 1/90 | - | - | 2/100 | - |

M65 IV totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 1 | - | 1/160 | - | 2/290 | - |
| 2 | - | - | 1/100 | 6/150 | - |
| 3 | - | - | - | 1/50 | - |
| 4 | - | - | - | 2/40 | - |
| 6 | - | - | - | 1/70 | - |
| Total | - | 1/160 | 1/100 | 12/600 | - |

Area V totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 1 | - | - | - | 2/60 | - |
| 1a | - | - | - | 1/100 | - |
| 2 | - | - | - | 4/160 | - |
| 4 | - | - | - | 2/70 | - |
| Total | - | - | - | 9/390 | - |

Area 1 totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 2 | - | 1/100 | 1/30 | 1/10 | - |
| 2a | - | 1/110 | 1/130 | - | - |
| 2b | - | - | 1/20 | - | - |
| 5 | - | - | 1/20 | - | - |
| Total | - | 2/210 | 4/200 | 1/10 | - |

Area 3 totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 5 | - | - | - | 1/20 | - |
| Total | - | - | - | 1/20 | - |

Area 4 totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 5 | - | 1/70 | - | - | - |
| Total | - | 1/70 | - | - | - |

Area 5 totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 2a | - | - | 1/80 | - | - |
| Total | - | - | 1/80 | - | - |

Area 7 (including 7+ but not 7a) totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 1 | 2/480 | - | 13/2040 | 7/380 | 2/1310 |
| 1a | - | 1/230 | - | 3/390 | - |
| 2 | - | 4/310 | 14/910 | 17/1440 | 2/540 |
| 2a | - | - | 7/560 | 1/120 | - |
| 2b | - | - | 1/20 | 1/80 | 6/970 |
| 3 | - | - | 5/300 | 2/90 | - |
| 3a | - | - | - | 1/100 | - |
| 4 | - | 2/160 | 3/170 | 19/22090 | 1/570 |
| 4a | - | - | 1/40 | 3/700 | - |
| 4b | - | - | - | 1/100 | - |
| 5 | - | - | - | 1/110 | - |
| 6 | - | - | 3/200 | 2/20 | - |
| Total | 2/480 | 7/700 | 47/4240 | 58/5620 | 11/3394 |

Area 7a totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 1 | - | - | - | 6/780 | - |
| 2 | - | - | 2/70 | - | - |
| 2a | 1/210 | - | - | - | - |
| 3 | - | - | - | 6/1240 | 2/380 |
| 4a | - | - | - | 3/270 | - |
| 5 | - | - | - | 1/90 | - |
| Total | 1/210 | - | 2/70 | 16/2380 | 2/380 |

Area 7/20 (including 7/20+) totals

| <u>Fabric</u> | <u>Tegula</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|---------------|-----------------|-----------------|-------------|-------------|
| 1 | 1/320 | 2/60 | 14/850 | 176/5010 | 4/1390 |
| 1a | - | 1/20 | - | 19/1240 | 2/450 |
| 2 | 5/960 | 8/760 | 3/360 | 257/7570 | 4/2270 |
| 2a | - | - | 2/130 | 1/10 | - |
| 2b | - | - | - | 4/70 | - |
| 3 | 2/200 | - | 1/80 | 31/2060 | 8/1890 |
| 3a | - | - | - | - | 2/360 |
| 4 | 1/300 | - | 3/90 | 135/6270 | 10/2240 |
| 4a | - | - | - | 8/290 | - |
| 5 | - | - | - | 16/1080 | 2/570 |
| 6 | - | - | - | 2/80 | - |
| 7 | - | - | - | 8/170 | - |
| Total | 9/1720 | 11/840 | 28/1810 | 657/24250 | 32/9170 |

Area B totals

| <u>Fabric</u> | <u>Tegula</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|---------------|-----------------|-----------------|-------------|-------------|
| 1 | - | - | - | 3/1250 | - |
| 2 | - | - | 2/90 | 2/50 | - |
| 3 | - | - | 1/30 | - | - |
| 4 | 1/140 | - | - | 1/40 | - |
| 5 | - | - | 5/480 | 3/480 | - |
| 6 | - | - | - | - | 1/40 |
| Total | 1/140 | - | 8/600 | 9/1820 | 1/40 |

Area 10 totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 2a | - | - | - | 1/130 | - |

Area 11 totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 1 | - | 1/260 | - | 1/1710 | - |
| 1a | - | - | - | 1/10 | - |
| 2 | 1/230 | 1/330 | 5/970 | 5/640 | 1/450 |
| 2a | 1/130 | - | 9/2320 | 7/1210 | - |
| 2b | - | - | 4/710 | - | - |
| 3 | - | 3/460 | - | 2/120 | - |
| 4 | - | - | 6/900 | 5/530 | - |
| 4a | - | 4/760 | 3/500 | 2/100 | - |
| 5 | 4/1390 | 4/940 | - | 8/960 | - |
| 6 | - | - | 1/50 | - | - |
| Total | 6/1750 | 13/2750 | 28/5450 | 31/4280 | 1/450 |

Area 12 totals

Sherd number/weight

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 1a | - | - | - | 2/90 | - |
| 2 | - | - | 1/20 | - | - |
| 2a | - | - | - | 1/20 | - |
| 4 | - | - | - | 3/160 | - |
| Total | - | - | 1/20 | 6/270 | - |

Area 13 totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 1 | 1/100 | 1/70 | - | - | - |
| 1a | - | - | - | 7/260 | - |
| 2 | - | 1/90 | - | 2/200 | 1/210 |
| 2b | - | - | - | 1/60 | - |
| 4 | 1/180 | 1/130 | - | 2/390 | - |
| 5 | 1/80 | - | - | - | - |
| Total | 3/360 | 3/290 | - | 12/910 | 1/210 |

Area 14 totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 5 | - | - | 1/60 | - | - |

Area 16 totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 2a | - | - | - | 1/320 | - |
| 3 | - | - | - | 1/280 | - |
| 4 | - | 1/80 | 1/40 | 2/30 | - |
| 6 | - | - | - | 1/250 | - |
| Total | - | 1/80 | 1/40 | 5/880 | - |

Area 17 totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 1 | - | - | - | 1/70 | - |
| 2 | - | 1/160 | 1/70 | 8/460 | - |
| 2b | - | - | - | 1/80 | - |
| 3 | - | - | - | 2/100 | 1/190 |
| 4 | - | - | - | 11/220 | 2/360 |
| 4a | - | - | - | 1/10 | - |
| 5 | - | - | - | 1/30 | - |
| Total | - | 1/160 | 1/70 | 25/970 | 3/550 |

Area 18 totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 1 | - | - | - | 1/70 | - |
| 2a | - | - | - | 1/100 | - |
| 4 | - | - | - | 3/180 | - |
| 5 | - | - | - | 1/50 | 1/140 |
| 6 | - | - | 1/20 | - | - |
| Total | - | - | 1/20 | 6/400 | 1/140 |

Area 18/B totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 2 | - | - | 2/180 | - | - |
| 4 | - | - | - | 3/240 | - |
| 4a | - | - | - | 1/200 | - |
| Total | - | - | 2/180 | 4/440 | - |

Area 19 totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 1 | - | - | - | 2/550 | - |
| 1a | - | - | - | 1/50 | - |
| 2 | - | - | - | 3/200 | - |
| 2a | - | - | - | | 1/540 |
| 4 | - | - | - | 2/30 | - |
| 5 | - | 1/280 | - | - | - |
| Total | - | 1/280 | - | 8/830 | 1/540 |

Area 20 totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 1 | - | - | - | 15/1240 | 1/490 |
| 2 | - | 3/220 | 1/40 | 48/2240 | 2/660 |
| 2a | - | - | 1/80 | 2/200 | - |
| 2b | - | - | - | 5/80 | - |
| 3 | - | - | 1/30 | 7/780 | - |
| 4 | - | - | 1/40 | 34/1100 | - |
| 4a | - | - | - | 8/770 | - |
| 5 | 1/60 | - | - | 6/380 | - |
| 6 | - | - | - | 1/30 | - |
| Total | 1/60 | 3/220 | 4/190 | 126/6820 | 3/1150 |

Area 21 totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 1 | - | - | - | - | 1/440 |
| 2 | - | - | 2/290 | - | - |
| 5 | - | - | 7/1380 | 1/40 | - |
| 6 | - | - | 1/40 | - | - |
| Total | - | - | 10/1710 | 1/40 | 1/440 |

Area 22 totals

| <u>Fabric</u> | <u>Tequila</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|----------------|-----------------|-----------------|-------------|-------------|
| 1 | 5/860 | 17/2170 | 15/2100 | 55/4490 | 1/670 |
| 1a | 4/600 | - | 7/640 | 14/1650 | 1/700 |
| 2 | 4/580 | 14/2320 | 38/3590 | 169/7680 | 5/2640 |
| 2a | - | 1/360 | 1/60 | 7/1020 | 1/550 |
| 2b | - | - | 1/40 | 3/350 | - |
| 3 | 1/60 | 1/20 | 1/40 | 9/760 | - |
| 4 | 5/1080 | 13/1490 | 26/2550 | 72/6230 | - |
| 4a | 1/230 | - | 2/140 | 44/2500 | - |
| 5 | 1/500 | 5/1220 | - | 8/1490 | - |
| 6 | - | - | 1/30 | - | - |
| 7 | - | - | - | 7/140 | - |
| Total | 21/3910 | 51/7580 | 92/9250 | 388/26310 | 10/5300 |

Area 17/23 (including 17/23+) totals

| <u>Fabric</u> | <u>Tegula</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|---------------|-----------------|-----------------|-------------|-------------|
| 1 | 5/1800 | 10/2100 | 5/400 | 32/970 | 10/2460 |
| 1a | 1/330 | - | - | 24/910 | 3/1250 |
| 2 | 10/1080 | 7/430 | 6/1060 | 302/3560 | 10/2340 |
| 2a | 9/610 | 1/80 | - | 15/750 | 3/1930 |
| 2b | - | - | 1/40 | 4/370 | 1/140 |
| 3 | 3/860 | 2/40 | 3/240 | 12/970 | 6/1980 |
| 3a | - | - | - | 1/70 | - |
| 4 | 11/1610 | 2/60 | 5/210 | 211/6500 | 5/1720 |
| 4a | - | 1/20 | - | 33/2340 | 3/480 |
| 5 | 1/90 | - | - | 11/6350 | 1/150 |
| 6 | - | - | 2/180 | 2/100 | - |
| Total | 39/6310 | 23/2730 | 22/2130 | 647/22890 | 42/21450 |

Area 23 total

| <u>Fabric</u> | <u>Tegula</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|---------------|-----------------|-----------------|-------------|-------------|
| 1 | - | - | - | 1/190 | 2/440 |
| 1a | - | - | - | 1/190 | - |
| 2 | - | 1/490 | - | 4/60 | - |
| 2b | - | 1/240 | - | 1/10 | - |
| 3 | - | - | - | 1/80 | - |
| 4 | - | - | - | 2/470 | - |
| Total | - | 2/730 | - | 10/1470 | 2/440 |

Area 30 totals

| <u>Fabric</u> | <u>Tegula</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|---------------|-----------------|-----------------|-------------|-------------|
| 1 | - | - | - | 2/20 | - |
| 2 | - | - | - | 1/180 | - |
| 3 | - | - | - | - | 1/540 |
| 4 | - | - | - | 5/280 | - |
| Total | - | - | - | 8/480 | 1/540 |

Area 32 totals

| <u>Fabric</u> | <u>Tegula</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|---------------|-----------------|-----------------|-------------|-------------|
| 1 | 1/210 | 2/60 | 1/50 | 64/460 | - |
| 2 | - | 1/280 | 2/140 | 42/2410 | 4/1210 |
| 4 | 1/210 | - | - | 10/480 | 1/60 |
| 4a | - | - | - | 3/170 | 1/150 |
| 5 | 1/50 | - | - | - | 1/90 |
| 6 | - | - | - | 2/80 | - |
| Total | 3/470 | 3/340 | 3/190 | 121/3500 | 7/1510 |

Area 33 totals

| <u>Fabric</u> | <u>Tegula</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|---------------|-----------------|-----------------|-------------|-------------|
| 2 | - | - | - | 4/30 | - |
| 4 | - | - | - | 1/40 | - |
| 5 | - | - | - | - | 1/490 |
| Total | - | - | - | 5/70 | 1/490 |

Area 34 totals

| <u>Fabric</u> | <u>Tegula</u> | <u>Imbrices</u> | <u>Box Flue</u> | <u>Unid</u> | <u>Flat</u> |
|---------------|---------------|-----------------|-----------------|-------------|-------------|
| 1 | 2/470 | - | - | 35/900 | 1/140 |
| 1a | - | - | - | 2/190 | - |
| 2 | - | 2/40 | 2/150 | 55/970 | - |
| 2a | - | - | - | 1/100 | - |
| 3 | - | 3/70 | 2/60 | 5/370 | 1/100 |
| 4 | 25/150 | - | 5/220 | 21/590 | - |
| 4a | - | - | - | 5/410 | - |
| 5 | - | - | - | 5/200 | - |
| 7 | - | - | - | 1/30 | - |
| Total | 27/620 | 5/110 | 9/430 | 130/3760 | 2/240 |

Total all Contexts and Areas:

2945 sherds
208.870kg

Quantification

| Fabric | % (by weight) |
|--------|---------------|
| 1 | 19.8 |
| 1a | 4.4 |
| 2 | 27.3 |
| 2a | 5.6 |
| 2b | 1.7 |
| 3 | 6.9 |
| 3a | >0.5 |
| 4 | 19.1 |
| 4a | 5.0 |
| 4b | >0.5 |
| 5 | 9.2 |
| 6 | 0.5 |
| 7 | >0.5 |

From this it appears that fabrics 3a, 4b and 7 are statistically insignificant.

| | Tegula | Box Flue | Imbrices | Flat |
|--------------------------------|--------|----------|----------|------|
| % by weight of identified tile | 16.3 | 28.1 | 17.5 | 37.8 |

Flat tiles predominate as is to be expected in a form of quantification based on weight. The next highest figure is for box flue, this may be partially due to identifying some box flue on the basis of thickness alone. However, box flue might make up a high percentage of manufacturing waste because of their greater fragility.

Appendix 2 Microscope examination of the fabrics

Although initially divided upon the basis of hardness, fracture and macroscopic inclusions the fabric series was later subjected to examination under a x20 binocular microscope.

Fabric 1

Soft, frequent small to medium quartz, sparse medium black ironstone, very sparse large white clay.

Fabric 1a

As fabric 1 but with larger and more frequent white clay which showed on the surface.

Fabric 2

Medium hard, frequent small to medium and sparse medium to large quartz, sparse moderate black ironstone, very sparse large white clay.

Fabric 2a

As fabric 2 but with larger and more frequent white clay which showed on surface.

Fabric 3

Fine even matrix of very small quartz with no other inclusions visible.

Fabric 4

As fabric 1 but harder.

Fabric 4a

As fabric 1a but harder.

Fabric 5

As fabric 3 but very hard.

Fabric 6

Appeared under the microscope to be similar to fabrics 3 and 5.

Appendix 3 Animal Prints

Only two definite animal prints were noted in the assemblage. They were both dog prints and occurred on the same flat tile from (17/23) III, SF 113.

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