MEADOW LANE, NORTH HYKEHAM, LINCOLNSHIRE

ASSESSMENT REPORT

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MEADOW LANE, NORTH HYKEHAM, LINCOLNSHIRE

ASSESSMENT REPORT

1.0 INTRODUCTION

On the 26th February 2001, the City of Lincoln Archaeology Unit (CLAU), on behalf of Longhurst Housing Association, commenced a selective archaeological watching brief during the construction of 23 dwellings at Meadow Lane, North Hykeham, in response to an earlier evaluation of the site that revealed the presence of Romano-British activity (JSAC 539/99/03).

The site lies on the south-west edge of north Hykeham in the district of North Kesteven (National Grid Reference SK 947 654 **Fig. 1**), approximately 1km to the west of the River Witham on a south-sloping field lying on the 5-10m contour.

The site contractor's construction methodology required the stripping of all of the topsoil and subsoil from the site. As a result of the implementation of this strategy, all of the sites previously buried archaeological resource was exposed. The CLAU immediately informed the Heritage Officer for North Kesteven District Council (Joanna Hambly) of these unforeseen site circumstances.

After discussions between the Heritage Officer, the developer and the archaeological contractor it was agreed that in order to assess the possibility for mitigating further damage by the development to the archaeological resource a rapid plot of the exposed archaeology should be made. The developer kindly offered to machine clean the site so that an overall plan could be produced to assist in the production of an informed mitigation strategy.

A further meeting was arranged with the aforementioned parties including the English Heritage Regional Inspector (Dr Glyn Coppack). The site circumstances and the overall site plan were discussed and a walk over the site undertaken. As the original budget for the selective watching brief had already been exhausted and the post-excavation budget would be expended on the finds already recovered from the site, it was decided to approach English Heritage with a request for the funding of a rescue excavation. This request was duly granted and between 14th March and 2nd April, a team of excavators from the CLAU carried out rescue excavations on the site.

2.0 ASSESSMENT REPORT

Assessment of the NHME01 archive has isolated areas where parts of the archive require further enhancement and highlighted potential areas for further research. For the most part specialists with an understanding of the local area have been used to assess the archive's various components.

This assessment report has been prepared in accordance with the specifications set out in the Management of Archaeological Projects (HBMC 1991, Appendix 4) and the research design submitted to English Heritage by the Heritage Officer for North Kesteven District Council (Hambly 2001).

CONTENTS

| Assessment Component | Specialist | Location |
|----------------------------|-----------------|--|
| Stratigraphic & Structural | Michael Jarvis | City of Lincoln Archaeology Unit, Charlotte |
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| | | Parade, Lincoln (LAS) |
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| Other Finds | Jenny Mann | CLAU |
| Integrated Assessment Report | Michael Jarvis | CLAU |

RESEARCH AIMS

The following research aims are extracted from the project brief produced by the Heritage Officer for North Kesteven District Council (Hambly 2001).

The site appears to represent the eastern limit of a relatively high status and planned settlement identified during a series of interventions in the area north of the present investigation. Unfortunately, none of this previous work was carried out under ideal archaeological conditions – most being watching briefs or chance finds during development. This is the first opportunity to investigate the site under more controlled conditions. The present investigations, therefore, should seek to shed light on the results of previous interventions and the settlement as a whole.

The investigation should seek to elucidate the relationship of this settlement within its physical, economical and cultural landscape and in particular with the Roman colonia of Lincoln. The site has the potential of addressing the following areas of inquiry:

- *A.* The likely connection with the early Romanisation of the Lincoln hinterland (cf recent research on the York hinterland, and at Hayton).
- *B. The early use of the Witham in establishing Lincoln as a major trading centre.*
- *C. High status industrial and possibly agricultural settlement directly related to the development of Lincoln itself.*
- D. Occupation ceases at some point in the third century, implying economic change directly linked to the economy of the colonia.

2.1 Stratigraphic & Structural Assessment

By Michael Jarvis

The records assessed here have been assembled from the excavation on the site at Meadow Lane, North Hykeham (NHME01).

The Archive

The following information sets out the quantity of the site archive available for this assessment.

- Two hundred and sixty four (264) individual context records.
- Thirty-six (36) A3 sized plans (at scales of 1:20 and 1:50).
- Fifty-three (53) sections (at scales of 1:20 and 1:50).
- A comprehensive photographic archive consisting of 186 colour photographs.
- One checked and phased stratigraphic matrix (Figs. 7-8)
- A digitised overall pre-excavation site plan (**Fig. 2**)
- Four (4) phase plans (**Figs. 3-6**).
- To assist with the rapid assessment of the site archive all plans, sections, context summaries, context record sheets, plan record sheets, section record sheets, sample sheets, levels sheets and photographic record sheets were computerised.

Provenance of the Material

Analysis of the context records, drawn records and stratigraphic matrices, in conjunction with the pottery evidence, has revealed four main periods of occupation present on the site.

Sub-phases are also evident within these periods.

The Range and Variety of Material

The following information summarises, by period, the variety of the data available for assessment.

Period I (Fig. 3)

54 contexts (20.5%)

- a) Pre-enclosure linear features
- b) Primary enclosure ditches
- c) Linear features of as yet indeterminate form and function
- d) Post-hole features
- e) Pit activity

Period II (Fig. 4)

69 contexts (26%)

- a) Primary enclosure ditches (two identifiable phases)
- b) Secondary enclosure ditches
- c) Linear and curvilinear ditches of as yet indeterminate form and function and external to the primary enclosure
- d) Post-hole features
- e) Pit activity

Period III (Fig. 5)

114 contexts (43.5%)

- a) Primary enclosure ditches
- b) Secondary internal and external enclosure ditches (linear and curvilinear -several phases)
- c) Linear and curvilinear features of as yet indeterminate form and function and external to the primary enclosure
- d) Post-hole features
- e) Pit activity (several phases)

Period IV (Fig. 6)

26 contexts (10%)

- a) Medieval ridge and furrow
- b) Pit/cut activity of indeterminate function

Table 1: Summary of the variety and quantity of features present on the site

| Feature Type | Period I | Period II | Period III | Period IV |
|---|----------|-----------|------------|-----------|
| Cut – indeterminate form/function | - | - | 1 | 4 |
| Furrow | - | - | - | 10 |
| Hearth | - | 1 | 1 | - |
| Layer | 1 | - | - | 1 |
| Linear/curvilinear of indeterminate form/function | 6 | 13 | 12 | - |
| Pit | 4 | 4 | 11 | - |
| Post-hole | 3 | 2 | 5 | - |
| Primary enclosure ditch (including re-cuts) | 4 | 5 | 4 | - |
| Secondary enclosure ditch (including re-cuts) | - | 2 | 10 | - |
| Tree-hollow | 1 | 1 | 1 | - |

Preliminary Conclusions

From the information above it can be seen that a wealth of stratigraphic information is available for analysis. The Roman occupation on the site is seen as the primary period of interest (Phases I-III), and the evolution of this Roman site is clearly demonstrated by the preliminary phase plans (**Figs. 3-5**). Evidence for medieval activity on the site (**Fig. 6**) is also present but is of only limited local interest.

Roman – Phases I-III

Preliminary analysis of the data relating to Phase I (Fig. 3) revealed a roughly square enclosure (area: $850m^2$) lying to the south of an east-west ditch at least 65m long, which formed the enclosures northern boundary; the ditch was approximately 3m wide and 1m deep and extended beyond the area of excavation, descending from higher ground eastwards towards the River Witham. Very few features (pits and short linear cuts) were recorded within the enclosure or the area immediately to its west.

Phase II (**Fig. 4**) comprised two parallel, primary east-west ditches, connected by a north-south ditch to form a long rectangular enclosure (area: $1326m^2$). The northerly Phase II ditch represented a re-cut of the Phase I primary ditch (remaining ditches associated with Phase I were infilled). Both primary ditches extended east and west beyond the area investigated. A secondary sub-circular enclosure (area: $300m^2$) with an apparent south-east entrance lay within the rectangular enclosure, extending south from the primary northern ditch.

Linear features lay to the south of the primary enclosure although their form and function is at present unclear. Several features (pit and linear) occurred within both the primary and secondary enclosures (some of these features clearly predated the construction of the secondary enclosure, indicating a period of sub-phase activity).

Phase III (**Fig. 5**) further expanded the primary enclosure constructed during Phase II. The Phase II northsouth ditch was re-cut and a second, parallel ditch was dug 24m to the west, forming a smaller rectangular enclosure of $750m^2$. This enclosure was bisected by an east-west ditch. The northern half was partially divided by a narrow north-south ditch extending southwards from the lip of the north ditch while a curvilinear ditch enclosed the south-west corner of the southern half ($123m^2$). A break in the curvilinear ditch adjacent to the south ditch may indicate an entrance. Other features, pits, post-holes and hearths, were located in the northern half of the main enclosure.

An east-west ditch (50m long and extending further to the west beyond the site boundary) lay 12m from, and parallel to, the south ditch of the primary enclosure with a return to the north adjoining its south-east corner, effectively enclosing an area extending over $560m^2$. A re-cut to the ditch reveals that the area forming this enclosure was later reduced in size to $200m^2$.

Two further curvilinear ditches lay to the west of the aforementioned enclosure; the western half of the sub-circular enclosure of Phase II was reused to enclose $220m^2$ in the north-east corner of this area, and a second, smaller ditch enclosed $39m^2$ in the south-east corner. Linear features within the larger enclosure may suggest the location of a structure(s), possibly a dwelling(s).

Medieval – Phase IV

Phase IV (Fig. 6) was represented by medieval agricultural activity in the form of furrows (associated ridges having been lost, probably as a result of the topsoil stripping). The furrows were in excess of 50m long and aligned with the primary east-west ditches of the earlier Roman enclosures. This suggests that at least one of the ditches may have been visible, possibly as a shallow depression, at the time this agricultural activity commenced.

Comment

Unfortunately, previous agricultural land working, the initial topsoil stripping (without archaeological supervision) and secondary stripping of the site (under archaeological supervision) has resulted in the loss of any occupation layers originally present on the site, representing an important element of the archaeological resource. The remaining archaeology consisted of cut features (ditches, pits and postholes). It is probable that shallower cut features e.g. post/stake-holes were removed during the initial topsoil stripping. Furthermore, constraints in time, and ground and weather conditions (at times appalling) resulted in shortcomings in the sampling of features and/or determining their interrelationships. However, it is believed that further enhancement of the site record, as set out in the recommendations, should help clarify most of these anomalies.

Although ditches, pits and post-holes of Roman date are not a rare occurrence, the undisturbed nature of the site (by later periods of occupation), in conjunction with the quantity of features available for analysis places the group value of those features recorded as high. The proximity of the site in relation to other known features (the River Witham and an extensive Romano-British settlement to the west of the site dating from the 3rd century AD - SMR Ref. 60783) further reinforces the probable importance of the site. The stratigraphic and structural resource can therefore be seen as being locally and regionally significant.

Condition

All records relating to the site are in good condition and currently held under safe storage with the CLAU (Union Road, Lincoln LN1 3BL).

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2.2 Animal Bone Assessment

By Jane Richardson BSc, MSc, PhD

Introduction

Excavations at Meadow Lane, North Hykeham by the City of Lincoln Archaeology Unit produced 223 animal bone fragments from mid to late Roman deposits. Unfortunately as so few bones were retrieved, an assessment of domestic debris (such as food waste) or industrial debris (such as tanning or bone working) was limited. The condition of the bones was also poor and this prevented a thorough assessment of butchery marks and metrical data.

Method

As the total assemblage was small, all bone fragments were identified where possible to species, species group (such as sheep/goat) or a lower order category such as 'large-mammal'. In addition, bones including a diagnostic element zone were noted. By definition these are easily identifiable and non-reproducible and eliminate the possibility of recording an anatomical zone more than once. Age data were considered and butchery marks were noted, but due to the poor surface condition of the bones, no metrical data were recorded. The recording of erosion, fragmentation, gnawing and burning allowed bone condition and preservation to be assessed.

To facilitate analysis, the animal bones were typically assigned to one of four phases: Phase I, 2nd to 3rd century; Phase II, 3rd to 4th century; Phase III, 4th to late 4th century and Phase IV, medieval. As the assemblage was so small, however, the bones were often viewed as a discrete mid to late Roman assemblage, with the majority of the bone fragments coming from 4th-century deposits.

Results

Bone preservation

Bone condition was generally poor with many bones described as porous and fragile. This poor state of preservation can be seen in the proportion of bones that displayed fresh breaks (47%). Nearly all bone fragments displayed eroded surfaces and this precluded the identification of butchery and gnawing marks. Gnawed bones accounted for less than 2% of the assemblage and only one butchered bone was identified (dismembering marks to a cattle proximal femur).

Species presence

The animal bone assemblage consisted of only 35 bone zones (Table 1). Of these, cattle accounted for 63% of the assemblage, horse 26% and large mammal 11%. The smaller mammals were only represented by a single sheep tooth and a tibia fragment of a small (sheep-sized) mammal (Table 2). Poor preservation probably biased against the smaller species.

Body part presence

All body parts (limb bones, axial skeleton and skull fragments) were present for cattle, horse and/or large mammal. These suggest that the assemblage represents domestic debris as opposed to industrial/craft waste that typically leaves a more limited range of body parts.

Age data

Age data were scarce for both cattle and horse. Two lower third molars of cattle indicated the cull of subadult animals, between 30 and 36 months (after Halstead 1985) and an unfused proximal femur of cattle revealed the slaughter of an animal below 42 months (after Silver 1969). These indicate the availability of prime meat, while two further lower third molars from 'old adults' (after Halstead 1985) imply the maintenance of some cattle as breeding stock, traction animals or for their milk yield. Age data for horse were limited to a single premaxilla that indicated a male animal of around seven years at death.

Conclusions

Domestic debris from mid to late Roman deposits was indicated by the dominance of cattle bones and the presence of all body parts. Sub-adult cattle were apparently utilised for their meat and the use of secondary products was tentatively identified. The high cattle percentages identified from the late Roman levels at North Hykeham are indicative of a 'Romanised' site (King 1989, 53), and have also been identified from late Roman deposits at Leadenham, Lincolnshire (Richardson 2001).

It is less likely that horse was eaten due to Roman aversions to the consumption of this species (Toynbee 1973, 185). Instead the horse bones may represent pack or traction animals. The almost total absence of other domestic species such as sheep, goats and pigs probably reflects the small sample size and taphonomic bias rather than dietary and/or economic decisions.

As only 223 bone fragments were retrieved from the predominantly mid to late Roman deposits at Meadow Lane, North Hykeham, the assemblage was too small to be statistically valid. Consequently the observations made here are very tentative and they may change should further archaeological investigations be carried out in this area. Although beef consumption was recognised, further excavation

and a larger sample size would help clarify the importance of secondary products and the significance of the smaller domestic species such as sheep and pigs.

| Table 1: | Summarv | of the | animal | bone zones | by phase |
|-----------|---------|--------|--------|------------|------------|
| I abit I. | Summury | or the | ummun | Cone Lone | , by phuse |

| | Period II | Period III | Unstratified |
|--------------|-----------|------------|--------------|
| Cattle | 2 | 19 | 1 |
| Horse | 1 | 7 | 1 |
| Large mammal | | 4 | |
| Total | 3 | 30 | 2 |

Table 2: Summary of the animal bone fragments by phase

| | Period I | Period II | Period III | Period IV |
|--------------|----------|-----------|------------|-----------|
| Cattle | 1 | 6 | 46 | |
| Horse | | 1 | 10 | |
| Large mammal | 3 | 14 | 65 | 8 |
| Sheep/goat | | | 1 | |
| Small mammal | | | 1 | |
| Unidentified | 36 | | 23 | |
| Total | 40 | 21 | 146 | 8 |

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2.3 Environmental Assessment

Fiona Johnson & David Shimwell

Materials and Methods

Forty 10ltr bucket samples from Meadow Lane, North Hykeham, collected by the field officer and excavators were submitted for laboratory analysis. Twenty-two of these samples were selected for detailed analysis according to the prescribed methods of PERU (Appendix 1) and on the basis of two premises:

Measurement of pH to indicate the chemical nature of samples;

Measurement of percentage loss on ignition to determine the quantity of organic material and hence, potential for the preservation of macrofossil and microfossil remains.

Sample selection was therefore based primarily on pH values lower than neutrality because pollen preservation is better at lower, more acidic values, and of % loss on ignition values >2.5. The characteristics of the forty samples are shown in Table 1 overleaf. In addition, the analysis of three

samples of iron-rich nodules and a block of iron slag, collected by the authors during a site visit, and of ten samples of copper-rich slag was also undertaken.

Results

Macrofossils and Pollen

The results of the analyses of the twenty-two samples proved to be somewhat disappointing, though some information was gleaned in all but five samples. The predominantly silty clay nature of the deposits, the relatively high pH, in the range 5.51-7.47, and the low contents of organic material, as evidenced by % loss on ignition values in the range 1.8-3.9, were clearly detrimental to the preservation of charcoal, plant macrofossils and pollen. Charcoal, often of the microscopic form, was present in fifteen samples, but never in quantities exceeding 2g. Its small and often fragmented nature precluded the specific identification of source species of tree or shrub. Pollen preservation was nil in all but four samples and then mainly as fractured and crumpled grains that prevented identification. Tree and shrub species recorded included *Alnus* (alder), *Corylus* (hazel), *Betula* (birch) and *Salix* (willow). *Pteridium* (bracken) and *Sphagnum* (bog moss) occurred in two samples. The results are really too fragmentary to provide an interpretation of the surrounding vegetation and landscape of the third and fourth centuries AD, merely to say that such species grew in the district surrounding the site.

The results for the analysis of plant macrofossils are slightly more heartening in that carbonised cereal grains were recorded in six samples and crop weed seeds in seven. The cultivated cereals were *Triticum vulgare* (bread wheat) in five samples, *Avena sativa* (oats) in two and *Secale cereale* as a single record. The wild oat (*A. fatua*), a common weed of cereal crops, was found in four samples. This pattern of representation is the expected situation in the Romano-British period (Godwin 1984) and the presence of a single grain of rye is particularly interesting, it being an uncommonly recorded crop of the Iron Age and Roman periods. The rather impoverished crop weed flora comprises records for five species, of which the corn spurrey (*Spergularia arvensis*) was found in six samples. This species is characteristic of cornfields on acidic, light sandy soils. Godwin (1984) notes that seeds of the spurrey are commonly found with those of *Linum* (flax), but such a combination was not recorded at North Hykeham.

Detail of Results

| 01 | Silty clay 10YR 3/1 very dark grey Charcoal absent; pollen preservation nil |
|----|---|
| 06 | Mixed sample, the bulk silty clay 2.5Y 5/4 light olive brown Five grains of <i>Triticum vulgare</i> and two of <i>Avena fatua</i> ; seeds of <i>Plantago lanceolata</i> and <i>Spergularia arvensis</i> Microscopic charcoal +; pollen preservation nil |
| 07 | Silty clay 5Y 3/1 dark grey, mixed with clay 2.5Y 6/4 light yellowish brown One grain of <i>Secale cereale</i> and three of <i>Avena fatua</i> ; seeds of <i>Chrysanthemum segetum, Vicia</i> <i>cracca</i> and <i>Plantago lanceolata</i> Microscopic charcoal +; pollen preservation nil |
| 08 | Silty clay 2.5Y 4/2 dark greyish brown with light olive brown mottlings Three grains of <i>Triticum vulgare</i> and four of <i>Avena sativa</i> ; seeds of <i>Spergularia arvensis</i> and <i>Vicia cracca</i> Microscopic charcoal +; pollen preservation nil |
| 10 | Silty clay 5Y 3/1 dark grey Charcoal absent; pollen preservation poor (three grains of <i>Ericaceae, Pteridium</i> and <i>Sphagnum</i>) |
| 11 | Silty clay 5Y 3/2 dark olive grey Bone and seeds of <i>Vicia cracca, Persicaria lapathifolium</i> and <i>Spergularia arvensis</i> Microscopic charcoal +; pollen preservation nil |
| 12 | Sandy clay 2.5Y 5/4 light olive brown Charcoal +; pollen preservation nil |

| | 1 |
|--------|---|
| 13 | Clay 2.5Y 3/2 very dark greyish brown with 10YR 3/6 yellowish brown mottles Charcoal absent; pollen preservation nil |
| 14 | Silty clay 5Y 3/1 dark grey Charcoal absent; pollen preservation nil |
| 15 | Silty/sandy clay 10YR 3/2 very dark greyish brown Microscopic charcoal +; pollen preservation poor with <i>c</i> . 15 broken and unidentifiable grains, plus <i>Lactuceae 4, Poaceae 3, Plantago 2, Cerealia 1</i> |
| 18 | Clay/silty clay 2.5Y 3/2 very dark greyish brown Charcoal absent; pollen preservation nil |
| 19 | Silty clay 5Y 3/1 dark grey Charcoal absent; pollen preservation nil |
| 20 | Sandy silt 7.5YR 3/0 very dark grey Microscopic charcoal +; pollen preservation poor, mainly fractured and unidentifiable grains, but 29 grains recorded as follows: <i>Alnus 9, Sphagnum 8, Corylus 5, Pteridium 3, Poaceae 2, Betula</i> <i>1, Salix 1</i> |
| 24 | Sandy clay 2.5Y 4/2 dark greyish brown Charcoal +; pollen preservation nil |
| 26 | Silty clay 2.5Y 4/2 dark greyish brown Three grains of <i>Triticum vulgare</i> and three of <i>Avena fatua</i> ; seeds of <i>Chrysanthemum segetum</i> and <i>Spergularia arvensis</i> and gramineous fibres Microscopic charcoal +; pollen preservation nil |
| 31 | Silty clay 2.5Y 3/2 very dark greyish brown Charcoal absent; pollen preservation nil |
| 32 | Silty clay 5Y 2.5/1 with occasional large pebbles (<50mm) Charcoal +; pollen preservation nil Four grains of <i>Triticum vulgare</i> , three of <i>Avena sativa</i> and one of <i>A. fatua</i> ; seeds of <i>Spergularia</i> <i>arvensis</i> and <i>Vicia cracca</i> |
| 33 | Pebble rich deposit in silty clay matrix 2.5Y 3.2 Charcoal absent; pollen preservation nil |
| 34 | Silty clay 5Y 3/2 dark olive grey with sandy inclusions Small quantity of burnt bone and microscopic charcoal; pollen preservation poor but single grains of <i>Alnus, Cyperaceae</i> and <i>Lactuceae</i> |
| 35 | Silty clay 2.5Y 4/2 dark greyish brown with sandy inclusions Seeds of <i>Spergularia arvensis</i> and <i>Persicaria lapathifolium</i> Microscopic charcoal +; pollen preservation nil |
| 39 | Silty clay 2.5Y 5/2 greyish brown with some iron staining Microscopic charcoal +; pollen preservation nil |
| 42 | Clay 2.5Y4/2 dark greyish brown Ceramic sherd, charcoal +; pollen preservation nil Two grains of <i>Triticum vulgare</i> and leaves of the moss <i>Hypnum cupressiforme</i> |
| B. Met | allurgy |
| | |

Iron-rich nodules

The three nodules of iron-rich material, weighing 1090g, 1150g, and 2680g (context [106]), excavated on site at North Hykeham have three possible origins. According to Kent, Gaunt and Wood (1980), iron

deposits of a variety of types are widespread in the solid geology of Lincolnshire. In the Lower Lias, the Frodingham Ironstone, which has been exploited economically in the north of the county, is commonly found as nodules in the beds to the south and west. The nodules may thus have come from opencast mining of such solid geological deposits beneath the vicinity of the Hykeham settlement. The Northampton Sand Ironstone of the Middle Lias of the Lincolnshire Ridge, has been worked as opencast in places as far north as Lincoln, beyond which it is represented by ferruginous sands with ironstone concretions. It seems improbable that the ironstone was brought some three kilometres to the site. Rather, the conglomerate-like nodules may represent a ferricrete formed in the overlying glacial deposits by the eluviation of iron, followed by its deposition and concretion in a matrix of gravel. Ussher, Jukes-Browne and Strahan (1888) record beds of iron-stained sand and gravel in a railway section north-east of Hykeham Station, though they fail to record the existence of a ferricrete horizon or nodules.

Iron slag block

The block of slag (context [106]) was examined by Sarah Paynter of the English Heritage Centre for Archaeology and the following account incorporates her comments. The block is sub-rectangular in plan, with approximate dimensions being 32×28 cm, with a depth of *c*. 12cm and a weight of 13.5kg. The upper and lower surfaces are generally convex-convex in section, although they are both rather uneven and irregular, with fairly deep pores (*c*. 4cm) and a vesicular texture. The base contains an impression of charcoal, and has incorporated several small pebbles and flint chips into its surface. The predominant feature of the block is a semicircular notch or 'bite' along one of the long sides when viewed in plan. At this point, the protruding areas of slag on either side of the notch are somewhat different in texture, being rather smoother and less vesicular. The block is at its thickest on the notched side, and when viewed in section has a clear convex base at this point.

Both iron smelting and iron smithing (refining) using the bloomery or Direct Method of iron production result in the formation of waste residues or slags, which individually may be difficult to assign to either process with certainty, unless found in association with other characteristic materials (Crew, 1995). However, certain interpretations may be made regarding this specific sample based on characteristics of its form, and comparison with other examples. Despite the unusually large size and peculiar shape of the sample piece, it is considered probable that it represents a smithing slag as opposed to a smelting slag. The convex-convex shape and the porosity of the slag are consistent with those resulting from smithing. In addition the piece was found in isolation, with no other features suggestive of smelting such as ores, tap slags, or smelting structure remains. The unusual shape would be due to features of the smithing hearth. Hearth walls frequently require repeated repair around the blowing hole, resulting in a bulging feature in this area. Any slag forming in the hearth would reflect such a feature with a corresponding indentation, such as displayed in the semi-circular "bite" of this example. The smoother texture of the slag in the areas around the indentation also suggest that they formed in the hottest part of the hearth, which would be around the blowing hole. This sample piece may be compared to an example from the Roman site at Elms Farm, Heybridge, Essex, which was similar in form and weight, (D. Dungworth, pers. comm.). The complete assemblage of debris from Elms Farm was unequivocal in identifying iron smithing as the predominant industrial activity at the site, as opposed to smelting (Starley, 1994).

The sample therefore suggests iron smithing was taking place in the local area. It is perhaps unusual that no other evidence of smithing was located on the site, particularly as the shape of this piece suggests it was formed in a hearth which had undergone repeated repair. However, large pieces of slag were often disposed of in antiquity, and agricultural practices often result in relocated slags, often to field boundaries (Bayley, Dungworth & Paynter, 2001). This corresponds with the location of the slag in the upper fill of a ditch boundary.

Copper slag

Ten pieces of presumed copper slag (Contexts [001] and [133]) were submitted for comment. The nine pieces from the first context vary in shape and size from 2.33g to 58.12g, 153.2g in total. All pieces display, in part, the blue-green colouration of oxidised copper. Seven are irregular nuggets, one a flattened rough piece and one a smooth spill/dribble with surface impressions of grass. The second context sample is a single lump (13.2g) of probable casting debris, similar in form to the irregular nuggets of the previous sample group. Together, the assemblage consists of corroded dribbles, spillages and possible failed castings from copper/bronze manufacture. The quantity of evidence suggests no more than a small-scale domestic activity on site.

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| Context | Sample No. | рН | % loss on ignition |
|---------|------------|------|--------------------|
| 002 | 1 | 6.03 | 2.4* |
| 004 | 2 | 6.16 | 1.8 |
| 005 | 3 | 6.80 | 2.0 |
| 007 | 4 | 5.81 | 1.9 |
| 008 | 5 | 6.15 | 2.1 |
| 022 | 6 | 6.05 | 2.7* |
| 024 | 7 | 6.12 | 3.6* |
| 026 | 8 | 6.21 | 3.6* |
| 028 | 9 | 5.90 | 2.4 |
| 047 | 10 | 6.43 | 2.5* |
| 072 | 11 | 6.28 | 2.7* |
| 080 | 12 | 6.15 | 2.5* |
| 087 | 13 | 6.62 | 2.4* |
| 086 | 14 | 6.54 | 2.6* |
| 085 | 15 | 5.51 | 2.4* |
| 084 | 16 | 7.58 | 2.2 |
| 043 | 17 | 7.15 | 2.3 |
| 045 | 18 | 7.06 | 2.4* |
| 094 | 19 | 7.00 | 1.8* |
| 056 | 20 | 6.68 | 2.7* |
| 098 | 21 | 7.27 | 2.0 |
| 098 | 22 | 6.89 | 2.1 |
| 088 | 23 | 7.12 | 2.1 |
| 010 | 24 | 7.15 | 2.5* |
| 100 | 25 | 7.29 | 2.3 |
| 104 | 26 | 7.47 | 2.8* |
| 117 | 27 | 6.96 | 2.4 |
| 123 | 28 | 7.02 | 2.6 |
| 090 | 30 | 6.89 | 2.3 |

Table I: Characteristics of the forty context samples

| 2.1 | | |
|-----|--|---|
| 31 | 7.15 | 2.4* |
| 32 | 6.71 | 3.9* |
| 33 | 6.51 | 2.4* |
| 34 | 6.47 | 3.1* |
| 35 | 7.06 | 2.8* |
| 37 | 6.87 | 2.4 |
| 38 | 7.20 | 2.1 |
| 39 | 7.35 | 2.8* |
| 40 | 7.30 | 2.0 |
| 41 | 7.00 | 2.0 |
| 42 | 7.21 | 2.5* |
| | 32 33 34 35 37 38 39 40 41 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |

| Appendix 1: Laboratory procedures for the assessment of the environmental potential of archaeological | l |
|---|---|
| context samples | |

Phase One

- Hand sort and set aside any predominantly organic sub-samples showing stratification.
 Prepare samples for rapid assessment of pollen preservation and content.
 Pollen preservation poor recommend no further analysis
 Pollen preservation good with species diversity recommend detailed analysis (Phase Two)
- Sub-sample for pH, Munsell colour and particle size characterisation. pH measurement to indicate general chemical nature of deposit Colour characterisation of inorganic fraction for indication of depositional environment, i.e. anaerobic or aerobic conditions Particle size analysis to provide profile of relative proportions of various sizes of sand, silt and clay
- 3. Disaggregate by hand to identify larger inclusions of bone, wood, charcoal, flint debitage and other artefacts.

Wash and blot off excess water; place charcoal in pie-dish in drying oven at 25°C for 24 hours. Assess potential for recommendation of specific identification and radiocarbon dating (Phase Two).

Place other artefacts in labelled sample bags; catalogue.

4. Wet sieve one litre sub-sample through nest of sieves (5mm to 1mm) to isolate charcoal and macrofossils.

Blot off excess water from each size fraction and pick out larger charcoal fragments using tweezers; place in pie-dish in drying oven at 25°C for 24 hours. Based on weight (>10g), make recommendation for radiocarbon dating.

Examine each size fraction in water in petri-dish, using x10 binocular microscope, for presence of seeds and other macrofossils. Pick out macrofossils and preserve in alcohol in labelled sample tubes.

Based on presence/diversity, recommend further specific analysis and additional wet sieving (Phase Two).

5. Retain remaining portion of bulk sample for potential Phase Two analysis.

Phase Two: Detailed analysis

- 6. Full pollen analysis of one (or more, if deposits are stratified) horizon(s), with accompanying interpretation, using the standard KOH digestion and acetolysis procedures of Faegri and Iversen (1989) and the identification of pollen using a Zeiss Axiolab microscope operating at x 400 according to Moore *et al.* (1991).
- 7. Identify charcoal species isolated in 3 above.

8. Identify seeds and other macrofossils in fractions isolated in Phase One. Wet sieve additional sub-samples down to mesh size 0.5mm to isolate additional material and smaller weed seeds. Provide an interpretation of the assemblage.

2.4 Post-Roman Pottery Assessment

By Jane Young

Introduction

Fifteen sherds of post-Roman pottery were recovered from the site. The material ranges in date from the medieval to the post-medieval periods and was mainly collected from unstratified deposits. The pottery was examined visually and, where necessary, by using x20 magnification, then recorded using locally and nationally agreed codenames on an Access database. The CLAU fabric type series for Lincoln was consulted for comparative material.

Condition

The pottery recovered is mainly in poor condition with all sherds showing a fair degree of abrasion. Most fragments are of small to medium size and only one vessel is represented by more than one sherd. The Pottery

A range of seven different, identifiable post-Roman pottery ware types was found on the site; the general date ranges for these wares together with their codenames are shown in Table 1. A restricted range of vessel forms was recovered, mainly large cylindrical jars and large bowls.

Table 1: Post-Roman pottery codenames and date range with total quantities by sherd and vessel count

| Codename | Full Name | Earliest Date | Latest Date | Sherds | Vessels |
|----------|---------------------------------|---------------|-------------|--------|---------|
| BERTH | Brown glazed earthenware | 1550 | 1800 | 2 | 2 |
| BL | Black-glazed wares | 1550 | 1750 | 5 | 4 |
| FREC | Frechen stoneware | 1530 | 1680 | 1 | 1 |
| GRE | Glazed Red Earthenware | 1500 | 1650 | 3 | 3 |
| MEDLOC | Local Medieval Fabrics | 1150 | 1450 | 2 | 2 |
| PGE | Light Firing Glazed Earthenware | 1500 | 1650 | 1 | 1 |
| PMLOC | Local Post-medieval Fabrics | 1500 | 1750 | 1 | 1 |

Medieval to Late Medieval

Two sherds from the site can be dated to the period between the 13th and 15th centuries. The sherds are very abraded and cannot be identified as a specific Lincoln or regional type, although the characteristics of the fabric (quartz and clay types) suggest that they are a local type. One vessel has an internal glaze and is probably a bowl, the other is a jug.

Post-medieval

Thirteen sherds representing twelve vessels date to the post-medieval period (16th to 18th centuries). The material includes a range of local and regional fabrics together with a single continental import (a Frechen stoneware drinking jug imported from the Rhineland). The range of vessel forms is limited to bowls, jars (mainly a large cylindrical type intended for storage) and single examples of a cup and a drinking jug.

Summary

The post-Roman pottery recovered from this site is of limited value in interpreting the archaeology; the condition of the material suggests that it represents field manuring, probably from the 16th to 17th centuries.

2.5 Ceramic Building Material Assessment

By Jane Young

Introduction

A total of 62 fragments of ceramic building material ranging in date from the Roman to the post-medieval period was recovered from the site. The material was examined visually and then recorded using locally and nationally agreed codenames on an Access database. The CLAU tile type series was consulted for comparative material.

Condition

The material is in variable condition with most fragments showing a fair amount of abrasion and eleven examples being very abraded. The condition of most of the building material seems to be consistent with plough damage.

The Ceramic Building Material

A range of ceramic building material including roof tile and brick was found on the site. The type and general date range for these types are shown in Table 1. A number of fragments were too fragmentary to identify as either Roman or post-Roman with any certainty.

| Codename | Full Name | Fragments | Weight | Ceramic Period |
|----------|----------------------------------|-----------|--------|---------------------|
| BOX | Box tile | 1 | 284g | Roman |
| BRK | Brick | 6 | 405g | med to post-med |
| BRKDISC | Brick (discarded) | 1 | 92g | med to post-med |
| DRAIN | Drain (general) | 1 | 205g | med to modern |
| IMB | Imbrex | 1 | 206g | Roman |
| MISC | Unidentified types | 5 | 741g | not known |
| NIB | Nibbed tile | 1 | 98g | med to post-med |
| PNR | Peg, nib or ridge tile | 4 | 439g | med to early modern |
| PNRDISC | Discarded peg, nib or ridge tile | 3 | 21g | med to early modern |
| RBRK | Roman brick | 19 | 3727g | Roman |
| RID | Unglazed Ridge tile | 1 | 118g | med |
| RTIL | Roman tile | 8 | 594g | Roman |
| RTMISC | Roman or post-Roman tile | 8 | 418g | Roman or post-Roman |
| TEG | Tegula | 3 | 1223g | Roman |

| Table 1: Ceramic Building material codenames and total of | quantities by fragment count and weight. |
|---|--|
|---|--|

Roman

Only a small group of 32 fragments can be identified with any certainty as being of Roman date. With only one or two exceptions the fabric types are dissimilar to those found in the City of Lincoln. The collection is limited to examples of tegula, imbrex, box tiles and building brick, mainly in poor condition. Two unusual bricks in a coarse reduced sandy fabric tempered with organic vegetable matter (chaff) may be of Roman date. These bricks, however, could equally well be examples of post-medieval handmade brick, or kiln bars of either date. If these bricks are Roman, they are likely to be *spicatum* or flooring bricks and would be the first to be recorded in the area.

Post-Roman

Most of the identifiable post-Roman ceramic building material recovered from the site is undiagnostic flat roof tile and brick. The fabric types recovered suggest that with one exception (Context [045]) the material in use in the area was not of Lincoln origin. Only a single fragment of ridge tile was present amongst the material recovered. This tile is unglazed and is decorated with an applied strip that has slashed decoration; this type of tile has not been noted within Lincoln. At least one of the brick fragments present on the site is of 18th or 19th century date

2.6 Roman Pottery Assessment

By B J Precious

The pottery was recorded according to the Study Group for Roman Pottery (SGRP) guidelines, using codes currently in use at the City of Lincoln Archaeological Unit, with sherd count and weight in grams as a measure (see the Roman pottery archive).

Introduction

The site produced a substantial assemblage of Roman pottery consisting of 599 sherds weighing 23009g. It is clear from Table 1, below, that the site was occupied towards the end of the Roman period with almost 67% of the assemblage dated from c AD 350, a further 5% from c AD 300-350, and at least 15% broadly dated to the 4th century. The majority of the pottery came from separate features, pits and linear or curvilinear cuts. One of the linear cuts ([041] & [078]) produced primary to tertiary fills ([044], [045] & [086]) the pottery from which shows a chronology from the late 3rd to mid to late and late 4th century. Post-Roman wares are mainly confined to unstratified material from the whole site (Context [001]), with a single sherd from Context [086] and three possible post-Roman sherds from Context [072]. These groups are the top fills from linear cuts and it is quite possible that the post-Roman sherds are intrusive, especially as they are mainly post-medieval in date and therefore unrelated to any immediate post-Roman occupation.

Date Range

Pottery of 3rd to 4th century date is present in small quantities accounting for 8.5% of the total, whereas principally 3rd century material accounts for only 1.8%. Evidence for mid-Roman occupation relies on the presence of two sherds of Central Gaulish samian of mid to late 2nd century date, however the samian may have remained in use far beyond the date of manufacture.

There are several rare vessels which, along with the double lid-seated jars, are indicative of late to very late Roman assemblages. These include two examples of inturned, bead and flanged bowls, and an example of an everted-rimmed bowl with a 'Romano-Saxon' style of decoration featuring indented circles on the body wall.

| Sherds | % | Date |
|--------|---------|------------|
| 3 | 0.50% | 2-3C |
| 6 | 1.00% | M2-3C |
| 6 | 1.00% | 2-4C |
| 6 | 1.00% | 3C |
| 5 | 0.83% | 3C+ |
| 8 | 1.34% | M3-4C |
| 22 | 3.67% | L3-4C |
| 21 | 3.51% | 3-4C |
| 56 | 9.35% | 4C |
| 32 | 5.34% | 4C/POSTRO? |
| 32 | 5.34% | EM4C |
| 132 | 22.04% | ML4C |
| 269 | 44.91% | L4/POSTRO |
| 1 | 0.17% | RO |
| 599 | 100.00% | TOTAL |

Table 1: Date range of the Roman pottery by the percentage of sherd count.

Condition

Two measures of the pottery were undertaken to emphasise the large size and fresh nature of this assemblage. This enabled a clearer understanding of the taphonomic processes on the site and it is clear, from the average sherd weight of almost 38.5g and the presence of several profiles, that the pottery is

likely to represent a relatively undisturbed, primary deposit. This is borne out to some extent by the material from the final fills of several linear and curvilinear cuts which produced the largest groups of pottery of mid to late 4th century date (Contexts [002] - 20 sherds; [043] - 41 sherds; [045] - 13 sherds; [046] - 70 sherds; [072] - 32 sherds; and [086] - 192 sherds - see Appendix 2: The date of the Roman pottery by context and sherd count).

It appears from the above that the back-filling of these features took place as a single event, and the average sherd weight from the majority of these groups supports this premise to some extent. For example: Context [002] - 25g; [043] - 48g; [046] - 43g; [072] - 28g and [086] - 36g, which contrasts sharply with the average sherd weight of 15g for the unstratified material from Context [001]. The alteration noted on individual sherds shows several with burning over the broken edges, suggesting that this back filling contained the debris from some sort of fire-destruction. However, there are no clear sherd links within the assemblage and only two groups of similar sherds were noted in Contexts [001] and [046], and [086] and [118].

As would be expected, a number of abraded and very abraded sherds came from the unstratified group, Context [001]. However, a relatively high proportion of the pottery from the site had altered surfaces, possibly due to either soil conditions or water abrasion, in particular that from Context [086], suggesting that this material may have been exposed to the elements for some time.

Sooting or burning on a number of bases or rims suggests that these are from cooking vessels. A few sherds were very burnt, so much so that reduced sherds were burnt to an oxidised state (Contexts [088], [142] & [171]); the wall of a vessel from Context [088] appears to have blown during firing, and another from Context [084] appears to have sheared at the base. These factors, together with the presence of two distinctive grey wares with fabrics consistent with the geology of the area, could point to pottery manufacture in the vicinity.

The Wares

Virtually all the wares associated with late Roman groups in Lincolnshire are present within this assemblage (see Table 2). The exceptions are late Roman grooved ware (SPIR) and 'Huntcliff-type' calcite-tempered wares (HUNT), however the latter are generally rare in Lincolnshire compared to their abundance north of the Humber and in East Yorkshire. Almost half of the assemblage consists of grey wares (GREY), a high proportion of which are very similar in fabric and form to the products of the Swanpool kilns in Lincoln. In addition there is a notable amount of distinctively different grey wares (GREY1 & GREY2), the fabrics of which are consistent with the geology of the valley bottom of the Hykeham area (pers comm Dr A G Vince). It is conceivable that this could be evidence for pottery manufacture in this area in the later Roman period.

The Swanpool kilns clearly supplied the bulk of the pottery to the site including an unusually high proportion of mortaria (MOSP), but also oxidised vessels (SPOX) and a single colour-coated vessel (SPCC). However, the surfaces of several of these examples are lost due to either soil or water abrasion. A group of unsourced oxidised wares (OX) with similarly worn surfaces, and fabrics virtually identical to the Swanpool grey wares, may also be products of these kilns.

A large group of double-lid and lid-seated jars in a coarse grey fabric (LCOA) accounts for over 13% of the assemblage, which would be expected of such a late group. Although similar forms occurred amongst the Swanpool kiln material, the source of this coarse local fabric is uncertain. A similar coarse grey fabric (COAR) was used exclusively to manufacture large storage jars (which have an average sherd weight of 152.5g). A small quantity of storage jars in an oxidised fabric may also belong to this group, but some are in a fabric very similar to locally produced tile and other building material (TILE).

| Code | Fabric | Sherds | % | Weight | % |
|------|---|--------|-------|--------|-------|
| COAR | Miscellaneous coarse wares | 14 | 2.34% | 2135g | 9.28% |
| DR20 | Dr 20 amphorae | 1 | 0.17% | 38g | 0.17% |
| DWSH | Late shell-tempered; Dales ware; lid-seated jars etc. | 24 | 4.01% | 275g | 1.20% |
| GFIN | Miscellaneous fine grey wares | 1 | 0.17% | 17g | 0.07% |

Table 2: The Roman fabrics by percentage of sherd count and weight.

| GREY | Miscellaneous grey wares | 282 | 47.08% | 9595g | 41.70% |
|-------|-------------------------------------|-----|---------|--------|---------|
| GREY1 | Grey fabric 1 | 13 | 2.17% | 329g | 1.43% |
| GREY2 | Grey fabric 2 | 76 | 12.68% | 2774g | 12.06% |
| GRFF | Grey fairly fine fabric | 1 | 0.17% | 26g | 0.11% |
| GRFF? | Grey fairly fine fabric? | 1 | 0.17% | 68g | 0.30% |
| GROG | Grog-tempered wares | 2 | 0.33% | 7g | 0.03% |
| GRSAN | Grey with sandwich fabric | 2 | 0.33% | 21g | 0.09% |
| LCOA | Late coarse pebbly fabric | 83 | 13.85% | 3051g | 13.26% |
| MOMH? | Mancetter/Hartshill mortaria? | 1 | 0.17% | 102g | 0.44% |
| MONV | Nene Valley mortaria | 1 | 0.17% | 22g | 0.10% |
| MOOX | Oxfordshire parchment ware mortaria | 1 | 0.17% | 4g | 0.02% |
| MOOXW | Oxfordshire white-slipped mortaria | 1 | 0.17% | 67g | 0.29% |
| MOSP | Swanpool mortaria | 21 | 3.51% | 543g | 2.36% |
| MPOT? | Medieval pot? | 3 | 0.50% | 97g | 0.42% |
| NVCC | Nene Valley colour-coated | 16 | 2.67% | 938g | 4.08% |
| NVGW | Nene Valley grey ware | 1 | 0.17% | 23g | 0.10% |
| NVGWC | Nene Valley grey ware coarse | 2 | 0.51% | 42g | 0.18% |
| OX | Miscellaneous oxidized wares | 19 | 3.17% | 473g | 2.06% |
| PART | Parisian type wares | 3 | 0.50% | 104g | 0.45% |
| SAMCG | Central Gaulish samian wares | 2 | 0.33% | 8g | 0.03% |
| SPCC? | Swanpool colour-coated? | 3 | 0.50% | 47g | 0.20% |
| SPOX? | Swanpool oxidized wares? | 18 | 3.01% | 644g | 2.80% |
| TILE | Tile fabric vessels | 6 | 1.00% | 1558g | 6.77% |
| VESIC | Vesicular fabric | 1 | 0.17% | 1g | 0.00% |
| TOTAL | | 599 | 100.00% | 23009g | 100.00% |

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Other local products consist of late Dales type, shell-tempered wares (DWSH). Although the fabric is similar to the mid 3rd - 4th century, typical hand-made, Dales-type ware, these later Roman lid- and double lid-seated jars are clearly wheel-finished. A single vessel in Parisian-type ware, with fine combed decoration, may have been produced at the Market Rasen kilns.

Romano-British wares from further afield mainly consist of colour-coated fine wares, but also include grey wares from the Nene Valley kilns, a mortarium from a probable Mancetter/Hartshill source and two examples of mortaria from the Oxfordshire kilns. Wares imported from the Continent are rare, consisting of two examples of Central Gaulish samian and a single very abraded sherd of Dressel 20 amphora from Baetica in Spain.

Form and Function

Table wares are rare, consisting of highly burnt examples of decorated Nene Valley, colour-coated lids, a bowl and dish, and two beakers. The comparative absence of these wares (see Table 3) reflects the late date of this assemblage. Other tablewares consist of a samian bowl which, together with a Mancetter/Hartshill mortarium, provides the only evidence of earlier occupation on the site.

| Form | Function | Sherds | % | Weight | % |
|---------------------|----------|--------|-------|--------|-------|
| Unidentified | N/A | 17 | 2.84% | 121g | 0.53% |
| Beaker | Drinking | 1 | 0.17% | 2g | 0.01% |
| Folded beaker | Drinking | 1 | 0.17% | 5g | 0.02% |
| Jar or beaker | Drinking | 27 | 4.51% | 209g | 0.91% |
| Cooking pot | Kitchen | 7 | 1.17% | 94g | 0.41% |
| Double lid-seat jar | Kitchen | 36 | 6.01% | 961g | 4.18% |
| Dales type jar | Kitchen | 3 | 0.50% | 47g | 0.20% |
| Lid-seat jar | Kitchen | 22 | 3.67% | 759g | 3.30% |

 Table 3: The Roman forms by function and percentage of sherd count and weight.

| Mortaria | Kitchen | 3 | 0.50% | 164g | 0.71% |
|-----------------------------|---------------|-----|---------|--------|---------|
| Bead & flange mortaria | Kitchen | 16 | 2.67% | 191g | 0.83% |
| Hammer-head mortaria | Kitchen | 1 | 0.17% | 160g | 0.70% |
| Reed-rim mortaria | Kitchen | 4 | 0.67% | 187g | 0.81% |
| Wall-sided mortaria | Kitchen | 1 | 0.17% | 36g | 0.16% |
| Flagon | Liquid holder | 1 | 0.17% | 16g | 0.07% |
| Disc-neck flagon | Liquid holder | 1 | 0.17% | 49g | 0.21% |
| Collared-rim jar | Liquid holder | 3 | 0.50% | 309g | 1.34% |
| Narrow-neck jar | Liquid holder | 7 | 1.17% | 192g | 0.83% |
| Jug? | Liquid holder | 1 | 0.17% | 8g | 0.03% |
| Unguent jar | Ritual | 11 | 1.84% | 287g | 1.25% |
| Amphorae | Storage | 1 | 0.17% | 38g | 0.17% |
| Large jar or bowl | Storage | 19 | 3.17% | 1783g | 7.75% |
| Large jar | Storage | 3 | 0.50% | 338g | 1.47% |
| Storage jar | Storage | 26 | 4.34% | 4614g | 20.05% |
| Dr 31 samian bowl | Table | 2 | 0.33% | 8g | 0.03% |
| Lid with steam hole | Table | 2 | 0.33% | 210g | 0.91% |
| Castor-box lid | Table | 1 | 0.17% | 10g | 0.04% |
| Jar | Table/Kitchen | 112 | 18.70% | 3680g | 15.99% |
| Bowl as Dr 31 | Table/Kitchen | 1 | 0.17% | 111g | 0.48% |
| Bowl as Dr 38 | Table/Kitchen | 6 | 1.00% | 299g | 1.30% |
| Everted-rim bowl | Table/Kitchen | 3 | 0.50% | 57g | 0.25% |
| Expanded-rim bowl | Table/Kitchen | 2 | 0.33% | 90g | 0.39% |
| Low bead & flange bowl | Table/Kitchen | 17 | 2.84% | 729g | 3.17% |
| Bead & flange bowl | Table/Kitchen | 1 | 0.17% | 12g | 0.05% |
| Flanged bowl | Table/Kitchen | 1 | 0.17% | 29g | 0.13% |
| Inturned bead & flange bowl | Table/Kitchen | 2 | 0.33% | 46g | 0.20% |
| Triangular rim bowl | Table/Kitchen | 1 | 0.17% | 14g | 0.06% |
| Wide-mouth bowl | Table/Kitchen | 57 | 9.51% | 3701g | 16.08% |
| Dish | Table/Kitchen | 1 | 0.17% | 58g | 0.25% |
| Groove rim dish | Table/Kitchen | 1 | 0.17% | 12g | 0.05% |
| Plain rim dish | Table/Kitchen | 5 | 0.83% | 215g | 0.93% |
| Bowl or dish | Table/Kitchen | 11 | 1.84% | 325g | 1.41% |
| Open | Table/Kitchen | 2 | 0.33% | 85g | 0.37% |
| Closed form | Table/Kitchen | 139 | 23.21% | 2327g | 10.11% |
| Jar or bowl | Table/Kitchen | 8 | 1.34% | 193g | 0.84% |
| Jar as Type 105 | Table/Kitchen | 2 | 0.33% | 36g | 0.16% |
| Curve-rim jar | Table/Kitchen | 1 | 0.17% | 7g | 0.03% |
| Flat-top jar | Table/Kitchen | 1 | 0.17% | 14g | 0.06% |
| Undercut-rim jar | Table/Kitchen | 2 | 0.33% | 44g | 0.19% |
| Lid | Table/Kitchen | 3 | 0.50% | 80g | 0.35% |
| Bifurcated-rim lid | Table/Kitchen | 3 | 0.50% | 47g | 0.20% |
| TOTAL | | 599 | 100.00% | 23009g | 100.00% |

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It is clear from the relatively high amount of mortaria and storage vessels that food preparation and storage was one of the prime functions of the pottery assemblage, whilst cooking took place mainly in jars with single or double lid-seatings. Liquid holders, represented by narrow-necked or collared jars for use mainly in the kitchen and flagons or jugs for use at the table, are slightly more common than drinking vessels. However, the bulk of the assemblage consists of vessels that could be used either for cooking or for serving at the table. This group is largely represented by the body sherds of jars or other closed, but otherwise undiagnostic, forms and wide-mouthed jars. Open forms are rare, mainly consisting of bead and flanged bowls and plain-rimmed dishes.

Perhaps the most unusual aspect of the assemblage is the presence of three small and very narrow-based unguent jars in an oxidised fabric resembling those of the Swanpool kilns. One vessel is almost complete and the apparently unworn base suggests that it has not been used. The precise function of this type of vessel is uncertain but there is some evidence to show that it was used for ritual purposes: some were recovered from the shrine at Verulamium, from the 'triangular' temple (cf Wheeler & Wheeler 1936, pls LIX-LXA).

Conclusions

This is an exceptional assemblage which, together with the presence of Roman building material, may be indicative of a nearby villa site. Assemblages of this date are generally restricted in terms of fabrics and forms because the major pottery industries were declining by the late 4th century. Nevertheless, the quantity and quality of this substantial assemblage suggests that it was used by a moderately high-status population.

The dating of the pottery corresponds well with the inception of Lincoln as one of the four major provincial capitals of late Roman Britain. This would have involved a major expansion of the city, and the substantial North Hykeham assemblage may well reflect that this growth continued into more rural locations.

It is a rare occurrence to find such a large, fresh and mainly homogeneous late Roman assemblage from a relatively rural excavation, as exemplified by Tables 2 and 3. Such a group provides substantial evidence of the types of forms and fabrics in contemporary use during a time-span that, in ceramic terms, is short. It is therefore particularly vital for comparison with similarly late assemblages from the City of Lincoln, which is frequently contaminated by earlier material, and may isolate the differences between rural and urban assemblages.

Bibliography

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2.7 Other Finds

By J E Mann

Introduction

Thirty registered finds and a similar quantity of bulk finds (see Appendix 1.7) were recovered from the site. All but six of the registered finds, and all of the bulk metalwork, was recovered by metal-detecting the topsoil and subsoil; the few certainly datable pieces are medieval or later.

All finds were recorded to basic CLAU archive level and the data entered onto the computer using the CLAU thesauri of finds and materials codes. The registered finds were examined in conjunction with the relevant X-ray plates where appropriate, and described and sketched on standard record cards.

Much of the metalwork is corroded, particularly the ironwork; three items received stabilisation treatment by the Lincolnshire County Council Heritage Service Conservation Department in order to limit further deterioration.

Finds from Roman Contexts

Only four pieces were stratified in Roman contexts: a single iron nail <30> and three small fragments of stone, all Millstone Grit from the Pennines. Two pieces are almost certainly from flat, rotary querns; only one of these <18> has any of the original edge remaining, from which a diameter of approximately 400mm can be estimated. Both faces of this piece are worn and one, on which four broad grooves are just visible, shows extreme wear. The second quern fragment <17> is of somewhat coarser grit and the only feature that suggests this to be from a quern is a series of three broad grooves on one face.

The third stratified piece <16> has part of an original, curved edge which appears to be slightly recurved adjacent to the point of fracture, as if originally of S-shaped profile. It is therefore unlikely to be part of a

quern although its precise function is debatable; the edge itself is extremely smooth as if abraded by wear, and it may simply be a fragment that has been reused as a rubber or perhaps as a coarse abrasive/sharpener.

Finds from Other Contexts

The only datable pieces from the topsoil (001) are post-medieval or modern, while the subsoil (133) produced a corroded iron fragment that has been tentatively identified as part of the fin and tube from a medieval barrel-padlock <28>. A single unstratified coin <3> was recovered and although this is too badly corroded for identification, its condition, together with the slight hint of a bust visible on the X-ray, suggests that it may be of Roman (late $3^{rd}/4^{th}$ century?) date.

Another fragment of Millstone Grit <15> was recovered from the subsoil. It appears to be part of a recut and reused piece; two adjacent edges remain, one curved and the other cut at an angle of 90 degrees to it. The curved edge suggests that this may have come from a quern with an original diameter of approximately 340mm. A shallow vertical notch traverses the entire thickness of this edge, and a shallow pit is visible in the straight-cut edge, which is very smooth as if abraded by wear. Both surfaces of the piece are also extremely abraded, each with a broad diagonal groove (more pronounced on one face than on the other) almost certainly produced by heavy use.

A noticeable quantity of lead waste was recovered, mostly comprising small blobs of melt waste with some sheet scrap and several fragments perhaps from roofing. There is also a single small scrap of milled window came, of 16th-century or later date. One small, sub-triangular fragment with a double-looped projection resembles part of a possible pilgrim badge (or perhaps a toy), although on balance this is more likely to represent melt waste that has flowed round some sort of obstruction.

| Phase | Context | Finds No. | Material | Object | Date/Comments |
|-------|---------|-----------|--------------|--------|--------------------------------------|
| U/S | 001 | 1 | Iron | - | Rod/Staple? |
| U/S | 001 | 2 | Flint | Waste | Prehistoric |
| U/S | 001 | 3 | Copper alloy | Coin | Roman? L3-4C? |
| U/S | 001 | 4 | Copper alloy | Buckle | Post-medieval?; D-shaped + |
| | | | | | suspension loop |
| U/S | 001 | 5 | Copper alloy | - | x2; Sheet mount/fitting |
| U/S | 001 | 6 | Copper alloy | Ring | Whole |
| U/S | 001 | 7 | Copper alloy | - | - |
| U/S | 001 | 8 | Copper alloy | Button | Late post-medieval/modern; whole |
| U/S | 001 | 9 | Lead | Waste | X8; 3 sheet 5 roof? |
| U/S | 001 | 10 | Lead | Waste | Melt |
| U/S | 001 | 11 | Copper alloy | - | Riveted mount/fitting |
| U/S | 001 | 12 | Copper alloy | - | - |
| U/S | 001 | 13 | Copper alloy | - | Curved frag |
| U/S | 001 | 14 | Lead | - | Point waste? |
| IV | 133 | 15 | Stone | - | Millstone Grit; reused quern; v worn |
| Ι | 196 | 16 | Stone | - | Millstone Grit; abraded |
| III | 232 | 17 | Stone | Quern | Millstone Grit; grooved |
| IV | 142 | 18 | Stone | Quern | Millstone Grit; grooved, v worn |
| IV | 133 | 19 | Iron | - | Curved rod |
| IV | 133 | 20 | Lead | Waste | Melt |
| IV | 133 | 21 | Lead | Waste | Sheet |
| IV | 133 | 22 | Lead | Waste | Melt |
| IV | 133 | 23 | Lead | Waste | Melt |
| IV | 133 | 24 | Lead | Waste | Melt |
| IV | 133 | 25 | Lead | Waste | Melt |
| IV | 133 | 26 | Lead | Came | Late medieval/post-medieval; milled |
| | | | | | scrap |
| IV | 133 | 27 | Lead | Waste | Melt blob |

List of Registered Finds

| IV | 133 | 28 | Iron | - | Medieval?; barrel-padlock? |
|-----|-----|----|------|------|----------------------------|
| IV | 133 | 29 | Iron | Nail | - |
| III | 106 | 30 | Iron | Nail | - |

Bulk Finds

Unstratified (001) bulk finds (see Appendix 1.7) mainly comprise modern material together with a small quantity of lead melt waste; there is little of note from stratified Roman contexts although a single piece of post-medieval/modern window glass was intrusive in the fill (100) of a Phase III linear feature (096). A small quantity of fired clay was recovered from the fills of ditches (073, 089, 144) and from a linear feature (146); a very small piece of burnt coal was also found in the fill of a curvilinear ditch (073). The small pieces of copper-working slag, discussed above (p10), were all unstratified (but see Discussion, below) apart from a single piece from the subsoil (133).

Discussion

The absence of diagnostically Roman material among the registered finds from this site contrasts sharply with the ceramic assemblage, both stratified and unstratified. The registered finds assemblage may represent a biased and unrepresentative sample: out-of-hours access to the site was unrestricted, and unmonitored activity (including metal-detecting and the removal of materials from site) could have taken place. It is equally possible, but perhaps unlikely, that finds were missed during excavation of the numerous features because of the adverse conditions produced by a combination of persistently wet weather and predominantly clay soil.

Controlled metal-detecting during the investigations produced mainly waste lead and scraps of copper alloy with a little ironwork, and any diagnostic pieces are of medieval and later date. Machine-stripping of the site had removed much of the medieval ridge and furrow, and almost certainly the uppermost fills of some of the (Phase III) Roman features; it is possible that at least some of the unstratified metal waste and copper-working slag may have originated from these Roman features - in common with much of the unstratified Roman pottery (which forms 12.86% of the whole assemblage). On balance, therefore, it is quite likely that the relative absence of other finds is a real feature of this site, and that the assemblage as a whole may be regarded as a relatively unbiased sample of the material originally deposited.

Study of the ceramic vessels (p14) suggests that occupation at this site may be of relatively high status. However, much of the pottery was used for food preparation and storage and the majority of the assemblage consists of vessels used for cooking or serving purposes; it may be no coincidence that two of the four stratified registered finds are undoubtedly quern fragments.

Given the virtual absence of normal detritus such as nails or other structural debris, and of personal items (including the usually ubiquitous bone pins!), it may be argued that this area lies on the periphery of occupation and that its use was not conducive to the loss of such material. The ditches, pits and other features, however, may have been close enough to any working or domestic area to provide a convenient place for waste and rubbish disposal.

3.0 INTEGRATED ASSESSMENT REPORT

Introduction

The purpose of this chapter is to set out the conclusions of the combined assessment reports and state clearly the further work needed. It also proposes new questions arising from the assessment and indicates the importance of the site in local, regional and national terms.

Original Objectives

Assessment of the NHME01 archive has partially satisfied the original objectives as set out in the project brief (Hambly 2001 – see 2.0 Research Aims).

A. Assessment of the Roman pottery (data) has revealed a possible connection between the Romanisation of the Lincoln Hinterland and the inception of Lincoln as one of the four major provincial capitals of late Roman Britain, however, identification of the pottery from the evaluation of the site in 1999 indicated a predominately 3^{rd} century date for its assemblage. Whilst material of this date was recovered from the NHME01 excavation the majority was of 4^{th} century date, suggesting a growth in the rural economy rather than a decline during the late Roman period.

- B. The excavation did not directly reveal evidence relating to the early use of the River Witham in establishing Lincoln as a major trading centre. Stratigraphic and ceramic evidence indicates a continuation of occupation on the site from the 2nd century through to a zenith in the 4th to late 4th century. This growth may reflect a greater use of the Witham as a trading link with the colonia at Lincoln, however no evidence to support this theory is available.
- C. Evidence suggesting that a high status settlement lies in close proximity to the site has been revealed, however the nature of this settlement has not been established therefore an industrial and/or agricultural association cannot be dismissed.
- D. It has been proven that occupation on the site does not cease in the 3^{rd} century but appears to flourish well in to the 4^{th} century. This may also imply an economic change linked to the economy of the colonia.

3.1 Statement of Potential

Stratigraphic and Structural

- Refinements to the phasing are required to elucidate the sequence of construction in order to produce a more definitive site-wide sequence of development. The most obvious way that this can be achieved would be through the union of individual contexts into a higher level of interpretive groupings that allows associated contexts with no stratigraphical association or dating to be linked together in order to determine their proper place within the stratigraphic sequence.
- 2) Full integration of the excavation archive with that of the earlier evaluation. This is deemed essential as it may provide information regarding the nature of those features recorded during the excavation that, at present, have unclear form, function and extent.
- 3) Understanding of the site may be considerably advanced if the results of the excavation were to be integrated with the results of previous work in this area of North Hykeham. This information would also expand our currently limited understanding of the Romanisation of the hinterland serving the colonia at Lincoln.
- 4) This site should be considered in relation to other comparable sites, with regard to their layout and development.
- 5) The results of this excavation should be published in a local journal.

Animal Bone

6) As only 223 bone fragments were retrieved from the predominantly mid to late Roman deposits at Meadow Lane, North Hykeham, the assemblage was too small to be statistically valid. Consequently the observations made here are very tentative and they may change should further archaeological investigations be carried out in this area. Although beef consumption was recognised, further excavation and a larger sample size would help clarify the importance of secondary products and the significance of the smaller domestic species such as sheep and pigs.

Environmental

7) The interpretation to be gleaned from the analyses presented above is limited by the fragmentary nature of the results. It is possible to say that grain crops used on site and probably grown in the immediate vicinity included bread wheat, oats and rye. The ecological demands of the associated weed assemblage would be those of the natural topsoils of the area. Little may be

said concerning the charcoal recovered, other than to record its presence. The seeming lack of large scatters and the absence of fragments of sufficient size to determine source species suggests that activities, other than those typical of normal domestic life, did not take place on site. Yet the presence of iron-rich nodules, a slag cake and cupreous slag may suggest otherwise.

8) Providing the methods of sample selection are acceptable, the relatively low returns of organic remains from the analyses recommend no further analysis of the remaining eighteen samples. The selection of additional samples with combinations of pH <7.0 and % loss on ignition <2.5 would seem to be little more than an academic exercise.

Post-Roman Pottery

9) In the absence of other post-medieval groups from the area the post-Roman pottery recovered from this excavation should be retained for any future scientific analysis and the development of a post-medieval type series for the county.

Ceramic Building Material

10) The ceramic building material recovered dates to between the Roman and the early modern periods. Apart from a few exceptions the material is not typical of that found on sites in the city of Lincoln. Little of the material has therefore been discarded and all of the remaining fragments should be retained.

Roman Pottery

- 11) It is clear that this material should be published, at least in a local journal.
- 12) The pottery assemblage should be directly related to the stratigraphic interpretation of the site to determine the precise nature of occupation.
- 13) The assemblage, which has been partly quantified to emphasise the fresh nature of the pottery, should be quantified to the highest level, giving rim equivalents (EVE's) and diameters, so that it can be compared directly with similarly dated, quantified assemblages from the City of Lincoln.
- 14) The distinctive grey ware fabrics (GREY1 & GREY2) which are consistent with the geology of the valley bottom of the Hykeham area should be analysed and thin sections prepared.
- 15) The sandy, oxidised fabrics (OX & SPOX?) similar to the Swanpool oxidised ware (SPOX), but lacking the exterior wash, should be similarly analysed.
- 16) Statistical analyses should be undertaken to compare this assemblage with comparable data from the City of Lincoln in order to elucidate any similarities or differences between rural and urban assemblages of this date.
- 17) Statistical analyses should be undertaken to compare this assemblage with comparable data from the City of Lincoln in order to isolate the principal components of late Roman assemblages uncontaminated by earlier, residual pottery.
- 18) The pencil-drawn, record illustrations of 58 vessels of intrinsic and stratigraphic value should be inked in for the publication, and a catalogue prepared.
- 19) A publication report together with a bibliography should be prepared encompassing the results of the above.

Other Finds

20) The stratified assemblage adds little to the interpretation of the site and does not merit further work. Apart from the slag, the lead waste and the pieces of fired clay, none of the bulk materials merits retention.

Discussion

The results of assessment of the various components of the NHME01 archive reflects, in part, the limited scope of the on-site investigations. Assessment of the animal bone, environmental data, ceramic building material, post-Roman pottery and other finds have all concluded a low potential for their furthering of our understanding of the development of the site and can be seen as having only local (site specific) importance.

Assessment of the stratigraphic and structural data and that of the Roman pottery data have revealed a moderate to high potential for the furthering of our archaeological knowledge and can be viewed as being of substantial local and regional importance. Further analysis and interpretation of the stratigraphic and ceramic pot data should elucidate the sequence of development on this site, providing important evidence for the expansion of the colonia at Lincoln and the Romanisation of its hinterland during the latter part of Roman occupation.

3.2 New Objectives

This assessment has highlighted five primary areas where the data recovered has the potential to answer new objectives.

These new objectives are:

- 1. Further refinement to the preliminary phasing of the site as well as the complete integration of the NHME01 archive with the information recovered from that of the site's earlier evaluation (including a reassessment of the evaluation pottery data). This will provide information that may aid in the interpretation of those features recorded during the excavation, which at present have unclear form, function and extent.
- 2. Integration of the pottery assemblage with that of the stratigraphic interpretation in order to determine the precise nature of occupation.
- 3. The integration and comparison of the NHME01 site with that of other archaeological work in the vicinity with a view to advancing our presently limited understanding of the Romanisation of the hinterland serving the colonia at Lincoln during the latter half of the Roman period.
- 4. Statistical analysis and comparison of the Roman pottery with comparable data from the City of Lincoln to identify similarities and differences between rural and urban assemblages of this date, and to isolate the principal components of late Roman assemblages that are uncontaminated by earlier, residual pottery.
- 5. The publication, in a local journal, of a more definitive and precise account of the development of the site.

4.0 ACKNOWLEDGEMENTS

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Fig. 1: Site location plan (1:25000 & 1:2500).

Fig. 2: Overall pre-excavation site plan.

Fig. 3: Phase I.

Fig. 4: Phase II.

Fig. 5: Phase III.

Fig. 6: Phase IV.

Fig. 7: Stratigraphic Matrix.

Fig. 8: Stratigraphic Matrix.

MEADOW LANE, NORTH HYKEHAM, LINCOLNSHIRE

ASSESSMENT REPORT

APPENDIX I – THE ARCHIVE

1.1 Context Summary

| Context | Description | Phase |
|---------|--|-------|
| 001 | Unstratified finds from whole site | N/A |
| 002 | Fill of cut [003] | III |
| 003 | Cut – linear | III |
| 004 | Primary fill of cut [003] | III |
| 005 | Fill of cut [006] | III |
| 006 | Cut – linear | III |
| 007 | Fill of cut [010] | II |
| 008 | Fill of cut [010] | II |
| 009 | Fill of cut [010] | II |
| 010 | Cut – linear | II |
| 011 | Fill of cut [012] | II |
| 012 | Cut – linear | II |
| 013 | Fill of cut [014] | III |
| 014 | Cut – linear | III |
| 015 | Fill of cut [016] | II |
| 016 | Cut – pit? | II |
| 017 | Fill of cut [018] | II |
| 018 | Cut – linear | II |
| 019 | Fill of cut [020] | III |
| 020 | Cut – pit? (Recorded on context sheet) | III |
| 021 | Furrow | IV |
| 022 | Fill of cut [023] | II |
| 023 | Cut – linear | II |
| 024 | Fill of pit [025] | III |
| 025 | Cut – pit | III |
| 026 | Fill of cut [027] | II |
| 027 | Cut – pit | II |
| 028 | Fill of cut [029] | III |
| 029 | Cut – linear ditch | III |
| 030 | Fill of cut [031] | Ι |
| 031 | Cut – linear | Ι |
| 032 | Fill of cut [033] | II |
| 033 | Cut – curvilinear | II |
| 034 | Fill of cut [035] | II |
| 035 | Cut – pit? | II |
| 036 | Not used | |
| 037 | Not used | |
| 038 | Primary fill of cut [012] | II |
| 039 | Fill of pit [025] | III |
| 040 | Cut – linear | III |
| 041 | Cut – linear | II |
| 042 | Primary fill of cut [040] | III |
| 043 | Tertiary fill of cut [040] | III |
| 044 | Primary fill of cut [041] | II |

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| 0.45 | | |
|------------|------------------------------|------------|
| 045 | Tertiary fill of cut [041] | II |
| 046 | Tertiary fill of cut [048] | III |
| 047 | Primary fill of cut [048] | III |
| 048 | Cut – linear | III |
| 049 | Layer | IV |
| 050 | Cut – linear | III |
| 051 | Fill of cut [264] | II |
| 052 | Fill of cut [054] | Ι |
| 053 | Fill of cut [054] | Ι |
| 054 | Cut – linear | Ι |
| 055 | Fill of cut [062] | Ι |
| 056 | Fill of cut [062] | Ι |
| 057 | Fill of cut [062] | Ι |
| 058 | Fill of cut [062] | Ι |
| 059 | Fill of cut [062] | Ι |
| 060 | Fill of cut [062] | Ι |
| 061 | Fill of cut [062] | Ι |
| 062 | Cut – pit | Ι |
| 063 | Fill of cut [064] | IV |
| 064 | Cut – linear | IV |
| 065 | Fill of cut [066] | IV |
| 066 | Cut – scoop | IV |
| 067 | Fill of cut [068] | IV |
| 068 | Cut – scoop | IV |
| 069 | Fill of cut [070] | III |
| 070 | Cut – post-hole | III |
| 071 | Furrow | IV |
| 072 | Fill of cut [073] | III |
| 073 | Cut – curvilinear ditch | III |
| 073 | Fill of cut [075] | II |
| 075 | Cut – linear | II |
| 076 | Cut – linear | III |
| 070 | Cut – curvilinear ditch | III |
| 078 | Cut – linear (same as [041]) | III |
| 078 | Cut – pit | III |
| 079 | Fill of cut [081] | III |
| 080 | Cut – pit | III |
| 081 | Fill of cut [083] | III |
| 082 | Cut – pit | III |
| | Fill of cut [076] | |
| 084 085 | Fill of cut [076] | III III |
| 085 | | - |
| | Fill of cut [078] | III |
| 087 | Fill of cut [079] | III |
| 088 | Fill of cut [089] | III |
| 089 | Cut – linear ditch | III |
| 090 | Fill of cut [124] | III |
| 091 | Fill of cut [093] (upper) | III |
| 092 | Fill of cut [093] (lower) | III |
| 093 | Cut – linear ditch | III |
| 094 | Fill of cut [095] | I |
| 095 | Cut – linear | I |
| 096 | Cut – linear | III |
| 097 | Fill of cut [095] | I |
| 098 | Fill of cut [099] | II |
| 099 | Cut – slot | II |
| 100 | Fill of cut [096] | III |
| 101 | Cut – linear ditch | III |

| 103 Fill of cut [105] (primary) II 104 Fill of cut [105] (primary) II 105 Cut - hearth II 106 Fill of cut [254] III 107 Fill of cut [108] III 108 Cut - inear ditch II 110 Cut - inear ditch I 111 Fill of cut [112] III 112 Cut - curvilinear ditch III 113 Fill of cut [114] III 114 Cut - curvilinear ditch (re-cut to [115)) III 115 Cut - curvilinear ditch (re-cut to [115)) III 116 Cut - curvilinear ditch III 117 Fill of cut [116] (primary) III 118 Fill of cut [120] III 119 Eut - curvilinear ditch III 120 Layer - subsoil IV 121 Layer - subsoil IV 122 Cut - curvilinear ditch III 123 Fill of cut [120] IIII 124 | 103 Fill of cut [105] (tertiary) II 104 Fill of cut [105] (primary) II 105 Cut - hearth II 106 Fill of cut [254] III 107 Fill of cut [108] III 108 Cut - curvilinear III 109 Fill of cut [110] 1 110 Cut - inear ditch II 111 Fill of cut [114] III 112 Cut - curvilinear ditch III 113 Fill of cut [114] III 114 Cut - curvilinear ditch (re-cut to [115]) III 117 Fill of cut [116] (primary) III 118 Fill of cut [116] (primary) III 119 Fill of cut [116] (primary) III 120 Layer - subsoil IV III 122 Cut - curvilinear ditch III III 123 Fill of cut [122] III III 124 Cut - pit III III 125 Fill of cut [126] | | 1 | |
|--|--|-----|-----------------------------|-----|
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| 157 Fill of cut [158] III | | | | |
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| 160 | Cut – linear | I |
| 161 | Fill of cut [162] | I |
| 162 | Cut – ditch | I |
| 163 | Fill of cut [164] | III |
| 164 | Cut – linear ditch | III |
| 165 | Fill of [166] | IV |
| 166 | Cut – furrow | IV |
| 167 | Fill of cut [168] | III |
| 168 | Cut – pit | III |
| 169 | Fill of cut [170] | Ι |
| 170 | Cut – linear | Ι |
| 171 | Fill of cut [255] | II |
| 172 | Cut – hearth? | III |
| 173 | Fill of cut [172] (black) | III |
| 174 | Fill of cut [172] (red) | III |
| 175 | Cut | III |
| 176 | Fill of cut [175] | III |
| 177 | Fill of cut [178] | III |
| 178 | Cut – linear | III |
| 179 | Fill of cut [180] | III |
| 180 | Cut – linear | III |
| 181 | Cut – pit | Ι |
| 182 | Fill of cut [181] | Ι |
| 183 | Cut – linear | II |
| 184 | Fill of cut [183] | II |
| 185 | Fill of cut [186] | II |
| 186 | Cut – linear | II |
| 187 | Fill of cut [189] | II |
| 188 | Fill of cut [189] (primary) | II |
| 189 | Cut – linear | II |
| 190 | Fill of cut [191] | IV |
| 190 | Cut – furrow | IV |
| 191 | Fill of cut [193] | II |
| 192 | Cut – linear | II |
| 193 | Fill of cut [195] | II |
| 191 | Cut – pit | II |
| 196 | Fill of cut [197] | I |
| 190 | Cut – pit | I |
| 197 | Fill of cut [200] | I |
| 198 | Fill of cut [200] (primary) | II |
| 200 | Cut – linear | II |
| 200 | Fill of cut [170] (primary) | I |
| 201 202 | Fill of cut [093] | III |
| 202 | | |
| - | Cut – post-hole | II |
| 204 | Fill of cut [203] | II |
| 205 | Cut – curvilinear ditch | II |
| 206 | Fill of cut [205] | II |
| 207 | Cut – curvilinear | II |
| 208 | Fill of cut [207] | II |
| 209 | Cut – plough score | IV |
| 210 | Fill of cut [209] | IV |
| 211 | Fill of cut [212] | III |
| 212 | Cut – pit | III |
| 213 | Cut – post-hole | II |
| 214 | Fill of cut [213] | II |
| 215 | Cut – post-hole | III |

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| 217 | | TIT |
|-----|-----------------------------------|-----|
| 216 | Fill of cut [215] | III |
| 217 | Cut – post-hole | III |
| 218 | Fill of cut [217] | III |
| 219 | Cut – linear | III |
| 220 | Fill of cut [219] | III |
| 221 | Cut – linear | II |
| 222 | Fill of cut [221] | II |
| 223 | Cut – tree bowl | II |
| 224 | Fill of cut [223] | II |
| 225 | Cut – post-hole | I |
| 226 | Fill of cut [225] | I |
| 227 | Cut – post-hole | I |
| 228 | Fill of cut [229] | Ι |
| 229 | Cut – linear | Ι |
| 230 | Fill of cut [227] | Ι |
| 231 | Fill of cut [253] | Ι |
| 232 | Fill of cut [233] | III |
| 233 | Cut – linear | III |
| 234 | Fill of cut [235] | III |
| 235 | Cut – linear | III |
| 236 | Fill of cut [237] | III |
| 237 | Cut – linear | III |
| 238 | Fill of cut [239] | III |
| 239 | Cut – linear | III |
| 240 | Fill of cut [241] | III |
| 241 | Cut – linear | III |
| 242 | Fill of cut [243] | III |
| 243 | Cut – curvilinear | III |
| 244 | Fill of cut [245] | Ι |
| 245 | Cut – linear | Ι |
| 246 | Fill of cut [247] | Ι |
| 247 | Cut – linear ditch | Ι |
| 248 | Fill of cut [249] | Ι |
| 249 | Cut – linear | Ι |
| 250 | Cut – tree bowl/burrow | Ι |
| 251 | Fill of cut [250] | Ι |
| 252 | Fill of cut [253] (same as [231]) | Ι |
| 253 | Cut – post-hole | Ι |
| 254 | Cut - linear | III |
| 255 | Cut – linear | II |
| 256 | Furrow | IV |
| 257 | Furrow | IV |
| 258 | Furrow | IV |
| 259 | Furrow | IV |
| 260 | Furrow | IV |
| 261 | Furrow | IV |
| 262 | Fill of cut [263] | II |
| 263 | Cut – linear | II |
| 264 | Cut – linear | II |
| 265 | Furrow | IV |
| 266 | Furrow | IV |

1.2 Animal Bone

| Context | Phase | Fragment count | Cattle | Horse | Large mammal | Sheep/goat | Small mammal | Unidentified |
|---------|-------|----------------|--------|-------|--------------|------------|--------------|--------------|
| 001 | U/S | 8 | 2 | 6 | | | | |
| 002 | III | 9 | 4 | | 5 | | | |
| 004 | III | 1 | 1 | | | | | |
| 011 | II | 1 | | | 1 | | | |
| 024 | III | 2 | 2 | | | | | |
| 043 | III | 12 | 2 | 3 | 7 | | | |
| 045 | II | 5 | 2 | 1 | 2 | | | |
| 046 | III | 22 | 10 | 3 | 9 | | | |
| 047 | III | 2 | 1 | 1 | | | | |
| 049 | IV | 8 | | | 8 | | | |
| 061 | Ι | 6 | | | | | | 6 |
| 072 | III | 32 | 6 | | 9 | 1 | 1 | 15 |
| 074 | II | 8 | 3 | | 5 | | | |
| 084 | III | 2 | 2 | | | | | |
| 086 | III | 4 | | | 4 | | | |
| 087 | III | 25 | 5 | 1 | 19 | | | |
| 090 | III | 5 | | | 5 | | | |
| 092 | III | 7 | 1 | | 6 | | | |
| 094 | Ι | 31 | 1 | | | | | 30 |
| 098 | III | 4 | | | | | | 4 |
| 106 | III | 9 | 3 | 1 | 1 | | | 4 |
| 118 | III | 7 | 7 | | | | | |
| 139 | II | 6 | | | 6 | | | |
| 140 | Ι | 3 | | | 3 | | | |
| 163 | III | 1 | | 1 | | | | |
| 187 | II | 1 | 1 | | | | | |
| 202 | III | 2 | 2 | | | | | |
| Total | | 223 | 55 | 17 | 90 | 1 | 1 | 59 |

1.3 Post-Roman Pottery

| Context | Cname | Sub Fabric | Form Type | Sherds | Vessels | Part | Description | Date |
|---------|--------|-----------------------------------|-----------------------|--------|---------|------|----------------------|--------------------------------------|
| 001 | BERTH | | tall cylindrical jar | 1 | 1 | rim | | 17^{th} to 18^{th} |
| 001 | BERTH | | jar | 1 | 1 | BS | | 17^{th} to 18^{th} |
| 001 | BL | | cup | 1 | 1 | base | | 17^{th} |
| 001 | BL | | large cylindrical jar | 1 | 1 | BS | | 17^{th} to 18^{th} |
| 001 | BL | | large cylindrical jar | 2 | 1 | base | | 17^{th} to 18^{th} |
| 001 | FREC | | jug | 1 | 1 | BS | | 16^{th} to 17^{th} |
| 001 | GRE | | bowl | 1 | 1 | rim | | 17^{th} to 18^{th} |
| 001 | GRE | | ? | 1 | 1 | base | | 16^{th} to 17^{th} |
| 001 | GRE | | handled jar/pipkin | 1 | 1 | LHJ | | 16^{th} to 17^{th} |
| 001 | PGE | | bowl | 1 | 1 | BS | | 17^{th} to 18^{th} |
| | | OX/R/OX; fine sandy; medium | | | | | very | |
| 072 | MEDLOC | hard | jug | 1 | 1 | base | abraded | 13^{th} to 15^{th} |
| 086 | BL | | bowl | 1 | 1 | BS | | 17^{th} to 18^{th} |
| | | oxid; med- coarse sandy; | | | | | very abraded; int | |
| 171 | MEDLOC | medium | bowl? | 1 | 1 | BS | glaze | 13^{th} to 15^{th} |

| | | hard | | | | | | |
|-----|-------|-------------------------------|------|---|---|-----|-------------|--------------------------------------|
| | | oxid; med sandy; medium | | | | | | |
| 238 | PMLOC | hard | bowl | 1 | 1 | rim | everted rim | 15^{th} to 16^{th} |

Key:

| BERTH | Brown glazed earthenware |
|--------|---------------------------------|
| BL | Black-glazed wares |
| FREC | Frechen stoneware |
| GRE | Glazed Red Earthenware |
| MEDLOC | Local Medieval Fabrics |
| PGE | Light Firing Glazed Earthenware |
| PMLOC | Local Post-medieval Fabrics |
| | |

1.4 Ceramic Building Material

| Context | Cname | Fabric | Frags | Weight | Decoration | Description | Date |
|---------|---------|-------------------------------------|-------|--------|--------------------------------|---|---|
| 001 | PNRDISC | | 3 | 21 | | miscellaneous scraps | |
| 001 | PNR | | 2 | 175 | | flat roofer ? | |
| 001 | RTMISC | | 5 | 283 | | | |
| 001 | BRKDISC | | 1 | 92 | | | 18 th to 19 th |
| 001 | RBRK | | 5 | 711 | | some very abraded | |
| 001 | RTIL | | 1 | 90 | | | |
| 001 | TEG | | 1 | 527 | | flange | |
| 001 | TEG | | 1 | 376 | | abraded; very odd as upper surface sanded under smoothed | |
| 001 | BOX | | 1 | 284 | combed | | |
| 001 | RID | | 1 | 118 | applied strip with slashing | unglaze | |
| 024 | RBRK | | 1 | 68 | | | |
| 028 | MISC | | 1 | 11 | | ? Brick | |
| 028 | BRK | | 1 | 132 | | very abraded; two sanded surfaces;? Roman or post-med | |
| 032 | TEG | | 1 | 320 | | very abraded | |
| 043 | RTIL | | 1 | 148 | | | |
| 043 | MISC | reduced grey sandy with chaff | 1 | 285 | | 65x43x40+mm; sanded on three sides; ? Roman spicatum or kiln bar or post med handmade brick | |
| 044 | RBRK | | 1 | 77 | | | |
| 045 | NIB | | 1 | 98 | | folded/applied; very shaley fabric | 14 th to 16 th |
| 046 | RTIL | | 2 | 136 | | | |
| 065 | IMB | | 1 | 206 | | ? ID could be a late ridge tile | |
| 072 | BRK | | 4 | 18 | | ? Date; small scraps | |
| 084 | RBRK | | 2 | 330 | | 60mm thick | |
| 086 | MISC | reduced grey sandy with chaff | 1 | 430 | | 73x70x80+mm; sanded on three sides; ? Roman spicatum or kiln bar or post med handmade brick | |
| 086 | RBRK | | 1 | 730 | | abraded; <i>c</i> . 40mm thick; soot on upper surface ? | |
| 086 | RBRK | | 1 | 300 | | | |
| 086 | PNR | | 2 | 264 | | one corner | late to post med |

| | | | - | | |
|-----|--------|---|-----|--------------------------------------|-------------------|
| | | | | | ? |
| 086 | BRK | 1 | 255 | vitrified fabric | early modern ? |
| 087 | RBRK | 1 | 768 | corner; finger signature; 35mm thick | |
| 087 | RBRK | 1 | 133 | | |
| 087 | RBRK | 1 | 387 | 38mm thick; abraded | |
| 087 | RTIL | 1 | 71 | soot on sanded side | |
| 118 | RBRK | 1 | 73 | very abraded | |
| 118 | RTIL | 1 | 98 | very abraded | |
| 141 | RBRK | 1 | 71 | very abraded | |
| 143 | MISC | 1 | 5 | scrap | |
| 147 | MISC | 1 | 10 | scrap | |
| 147 | DRAIN | 1 | 205 | field drain | |
| 151 | RBRK | 2 | 67 | | |
| 155 | RTIL | 1 | 8 | abraded | |
| 165 | RTMISC | 1 | 86 | | |
| 187 | RBRK | 1 | 12 | very abraded | |
| 190 | RTMISC | 1 | 40 | | |
| 190 | RTMISC | 1 | 9 | ? Field drain/ridge/IMB | |
| 238 | RTIL | 1 | 43 | very abraded | |

Key:

| BOX | Roman box or flue tile |
|---------|--|
| BRK | Medieval/post-medieval brick |
| BRKDISK | Discarded Medieval/post-medieval brick |
| DRAIN | Unglazed drain or water pipe |
| IMB | Roman Imbrex |
| MISC | Miscellaneous |
| NIB | Unglazed nib tile |
| PNR | Unglazed undiagnostic roofing tile |
| PNRDISC | Discarded unglazed undiagnostic roofing tile |
| RBRK | Roman brick |
| RID | Unglazed curved ridge tile |
| RTIL | Undiagnostic Roman tile |
| RTMISC | Miscellaneous Roman tile |
| TEG | Roman Tegula tile |

1.5 Roman Pottery

| Context | Fabric | Form | Dec | Novess | Dwg no. | Alter | Comments | Join | Shs | Wt |
|---------|--------|------|---------|--------|---------|--------|-----------------------------|------|-----|-----|
| 001 | DR20 | А | | | | VA | BS; GRITTY EFAB | | 1 | 38 |
| 001 | GFIN | J | | | | | BS THINNER | | 1 | 17 |
| 001 | GREY | BIBF | | | D24 | VA | RIM GIRTH | | 1 | 16 |
| 001 | GREY | BWM | В | | | | RIM CF SPOOL | | 1 | 38 |
| 001 | GREY | BWM | | | | WW | RIM | | 1 | 85 |
| 001 | GREY | BWM | | | | WW | RIM | | 1 | 40 |
| 001 | GREY | BWM | | | | A; WW | RIM SHLDR SHORTER NECK | | 1 | 38 |
| 001 | GREY | BWM? | | | | А | BSS | | 3 | 168 |
| 001 | GREY | CLSD | | | | | BSS GYBN STAIN? NR GREY2 | | 5 | 92 |
| 001 | GREY | СР | | | | VA; WW | RIM | | 1 | 10 |
| 001 | GREY | J | BS; SWL | | | | BS CF SPOOL | | 1 | 31 |

| | r | | | | | 1 | | | | — |
|------|-------|-------|------|---|------|--------------|---|----|---|--------------|
| 001 | GREY | J | | 2 | | WW | BSS THINNER | | 2 | 24 |
| 001 | GREY | JNN | | 2 | | VA; WW | BSS NECKS | | 2 | 62 |
| 001 | GREY | JNN | В | 1 | | B? | RIMS J BLK CF SPOOL | | 2 | 40 |
| 001 | GREY | JNN | | | | VA; WW | RIM NECK | | 1 | 28 |
| 001 | GREY | JNN | | | | VA; WW | RIM NECK | | 1 | 24 |
| 001 | GREY2 | BWM? | | | | | BS THICK | | 1 | 51 |
| 001 | GREY2 | CLSD | | 2 | | А | BSS | | 2 | 84 |
| 001 | GREY2 | CLSD | | | | А | BS THICK CORDON | | 1 | 63 |
| 001 | GREY2 | J | | 1 | | А | BASE 100% FTM; BSS | | 6 | 178 |
| 001 | GRSAN | BWM? | | 1 | | | BSS J | | 2 | 21 |
| 001 | LCOA | BFB | | | | BF | FLANGE | | 1 | 14 |
| 001 | MOOX | М | | | | VA | BS; TYP TG | | 1 | 4 |
| 001 | | | | | | | RIM GIRTH; M17; | | | <u> </u> |
| 001 | MOOXW | MBF | | | D50 | WW | WHT SLIP LOST | | 1 | 67 |
| 001 | MOSP | М | | | | А | BASE | | 1 | 58 |
| 001 | MOSP | MBF | | | | VA | RIM FRAG | | 9 | |
| 0.01 | MOGD | MDD | | | D.52 | X 7.4 | RIMS SPOUT BS WHT | | 2 | 101 |
| 001 | MOSP | MRR | | 1 | D53 | VA | SLIP LOST | | 3 | 101 |
| 001 | MOSP | MRR | | | D54 | A | RIM GIRTH RIM UPPER WALL | | 1 | 86 |
| 001 | MOSP | MWS | | | D55 | А | WHT SLIP LOST | | 1 | 36 |
| 001 | NVCC | BKFO | | | | VA | BS WHT FAB BLK CC | | 1 | 5 |
| | 11100 | Din 0 | | | | , , , , | RIMS BASE BS PROF; | | - | |
| 001 | OX | BFB | | 1 | D51 | SR; SX | FS | | 7 | 167 |
| 0.01 | OV | CL CD | | | | | BASE OX EXT GRY | 16 | 1 | 100 |
| 001 | OX | CLSD | | | | A | IN; AS IN | 46 | 1 | 109 |
| 001 | OX | CLSD | | 2 | | VA | BSS DISS TO SPOX | | 2 | 10 |
| 001 | PART | CLSD | | | | | BS; VFINE SILTY | | 1 | 9 |
| 001 | SPOX? | B38 | | 1 | D56 | A; BR | RIMS GIRTH | | 2 | 90 |
| 001 | SPOX? | B38 | | 1 | | VA | FLANGES | | 2 | 36 |
| 001 | SPOX? | UJ | | 1 | D49 | U? | RIM BASESTRING BSS PROFNR COMP | | 5 | 157 |
| 001 | TILE? | JS | | 1 | 217 | A | BS CF SPOX; EXTR | | 1 | 378 |
| 001 | TILL: | 35 | | | | | SMALLER ABRADED | | 1 | 570 |
| 001 | ZZZ | | | | | | SHS | | | |
| 001 | ZDATE | | | | | | L4/POSTRO | | | |
| 002 | GREY | J | ROUJ | | | А | BS SHLDR; CF SPOOL | | 1 | 32 |
| 002 | GREY | J | BWL | | | А | BS SHLDR; CF SPOOL | | 1 | 36 |
| 002 | GREY | | | | | | BS | | 1 | 2 |
| 002 | GREY1 | J | | | | | BS; FS | | 1 | 26 |
| 002 | LCOA | JLS | | | D3 | SR | RIM; BLK | | 1 | 46 |
| 002 | LCOA | JLS | | | | SR | RIM | | 1 | 15 |
| | | - | | | | | RIM BASE BSS; FS | | | İ 🗌 |
| 002 | LCOA | JLS | | 1 | | SR; WW | RIM | | 6 | 195 |
| 002 | LCOA | | | | | | BS; BLK | | 1 | 6 |
| 002 | NVCC | BD | | 1 | | VAI; BBX | BASES J; STRNG; WHR FAB;ORNGE CC LOST | | 4 | 89 |
| 002 | INVEC | עם | | 1 | | | RIMS BS J PROF; | | 4 | 07 |
| 002 | SPCC? | LBIF | | 1 | D2 | BRX | FINER VAR | | 3 | 47 |
| 002 | ZDATE | | | | | | EM4C | | | |
| | | | | | | | MIX NVGW; NR JDLS; | | | |
| 002 | ZZZ | | | | | | 20 SHS | 1 | | |

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| 0.05 | LCOL | IDLO | | | DI | (TD) | | | 50 |
|------|-------|------|-----|---|-----|---------|-----------------------------|---|-----|
| 005 | LCOA | JDLS | | 1 | D1 | SR | RIMS J | 2 | 53 |
| 005 | ZDATE | | | | | | ML4C | | |
| 005 | ZZZ | | | | | | LCOA JDLS ONLY | | |
| 011 | LCOA? | | | | | VA; B | BS CF GREY 1 W LARGER RQ | 1 | 1 |
| 011 | ZDATE | | | | | , n, D | 3-4C | 1 | - |
| 011 | ZZZ | | | | | | SCRAP GREY ABR ONLY | | |
| 011 | | | | | | | BS SHLDR W | | |
| 016 | GREY | BWM? | В | | | А | GROOVE; DITTO | 1 | 18 |
| 016 | GREY | JB | | | | | BASE STRING CF LINCOLN | 1 | 42 |
| 016 | ZDATE | | | | | | 3-4C | | |
| 016 | ZZZ | | | | | | 2 SHS GREY ONLY | | |
| 017 | GREY | CLSD | | | | А | BS CF LINCOLN | 1 | 14 |
| 017 | ZDATE | | | | | | 3-4C | | |
| 017 | ZZZ | | | | | | GREY ONLY | | |
| 022 | NVCC | CLSD | | | | VA; VBE | BS WHT FAB;ORNGE CC LOST | 1 | 45 |
| 022 | ZDATE | | | | | , | 4C | | |
| 022 | ZZZ | | | | | | NVCC V BURNT ONLY | | |
| 024 | GREY | J | SWL | | | | BS SPOOLISH | 1 | 29 |
| 024 | GREY | JBL | | 1 | | | BSS THICK; CF SPOOL | 2 | 151 |
| | | | | | | | BS UNUS; PINCHED? | | |
| 024 | GREY | JUG? | | | | | OR LUG W GROOVE | 1 | 8 |
| 024 | GREY | | | 1 | | A; WW? | BSS | 2 | 9 |
| 024 | GREY1 | J | | | | A; WW? | BS | 1 | 13 |
| 024 | GREY1 | | | | | А | BS | 1 | 4 |
| 024 | GROG | | | | | | BS; FS | 1 | 5 |
| 024 | LCOA | JLS | | | | | RIM BLK; CF DWG 3 | 1 | 22 |
| 024 | LCOA | | | | | | SCRAP | 1 | 2 |
| 024 | OX | JBK | | | | | BS; FS | 1 | 1 |
| 024 | ZDATE | | | | | | EM4C | | |
| 024 | ZZZ | | | | | | SMALL GRP INC JLS | | |
| 026 | GREY | | | | | A; WW? | BS CF SPOOL | 1 | 10 |
| 026 | GREY1 | | | | | A; WW | BS | 1 | 8 |
| 026 | ZDATE | | | | | | 3-4C | | |
| 026 | ZZZ | | | | | | 2 SHS GREY | | |
| 028 | GREY | BWM | | | | | RIM FRAG | 1 | 6 |
| 028 | GREY1 | BFB | | | | А | FLANGE FRAG | 1 | 8 |
| 028 | LCOA | | | | | BX | BS | 1 | 18 |
| 028 | ZDATE | | | | | | 4C | | |
| 028 | ZZZ | | | | | | 3 SHS INC BFB | | |
| 032 | GREY | J | | | | | BS; SPOOLISH | 1 | 54 |
| 032 | GREY | | | | | VA | SCRAP | 1 | 3 |
| 032 | ZDATE | | | | | | L3-4C | | |
| 032 | ZZZ | | | | | | 2SHS | | |
| 043 | GREY | BWM | BS | | | А | BSS INC SHLDR; CF SPOOL | 4 | 160 |
| 043 | GREY | J | | | | WW | BS | 1 | 16 |
| 043 | GREY | JNN | | | D11 | WW | RIM CF SPOOL | 1 | 38 |

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| | ~~~~~ | L - | | | | | | | | |
|------|-------|--------|---------|---|------------|---------|---|---|----|-----|
| 043 | GREY2 | J | | | | | BASE 80%; STRING BASE 100% BSS; | | 1 | 72 |
| 043 | LCOA | J | | 1 | | | STRING; GREY FS | , | 7 | 379 |
| 043 | LCOA | J | | 1 | | | BSS BLK | | 2 | 20 |
| 043 | LCOA | JBK | | 1 | | | BSS THIN BLK | , | 3 | 9 |
| 043 | LCOA | JDLS | | 1 | D13 | | RIMS BASE BSS; STRING; BLK | 1 | 1 | 431 |
| 043 | LCOA | JDLS | | | D15 | | RIM; GREY | | 1 | 39 |
| 043 | LCOA | JDLS | | | D16 | | RIM; GREY | | 1 | 33 |
| 0.42 | LCOL | на | | | DIA | | RIMS BS J COARSER; | | | |
| 043 | LCOA | JLS | | 1 | D12 | | BLK | | 3 | 243 |
| 043 | LCOA | JLS | | | D14 | WW | RIM; GREY FLANGE FRAG; CC | | 1 | 13 |
| 043 | MOSP | MBF | | | | A; WW | NR LOST | | 1 | 10 |
| 043 | NVCC | BFB | | | D9 | A; WR | RIM BASE PROF; BUFF FAB; DKBN CC | | 1 | 355 |
| 043 | NVCC | DPR | | 1 | D10 | VA | RIM BASE PROF; WHT FAB; DKBN CC | | 3 | 154 |
| 043 | ZDATE | | | | | | ML4C | | | |
| 043 | ZZZ | | | | | | GD HOMOG GRP LGE SHS INC JDLS | | | |
| | | | | | | | BASE; BURNT OX | | | |
| 044 | GREY | J | | | | A; BE | EXT | | 1 | 99 |
| 044 | LCOA | J | | | | WW? | BS | | 1 | 20 |
| 044 | ZDATE | | | | | | L3-4C | | -+ | |
| 044 | ZZZ | | | | | | 2SHS BASE BSS J LWR | | -+ | |
| 045 | LCOA | J | | 1 | | | WALL; GRY; STRING | | 4 | 379 |
| 045 | LCOA | J | | | | SX | BS; FS | | 1 | 15 |
| 045 | LCOA | JBK | | 1 | | | BSS THIN WALL; BLK FS | | 5 | 23 |
| 045 | LCOA | JDLS | | 1 | D4 | | RIM SHLDR BS J; BLK | , | 2 | 91 |
| 045 | SPOX? | B38 | | | | BF | FLANGE LWR WALL | | 1 | 68 |
| 045 | ZDATE | | | | | | ML4C | | | |
| 045 | ZZZ | | | | | | 13 SHS INC JDLS | | | |
| 046 | DWSH | JDLS | | 1 | D45 | F; SR | RIMS BSS | 1 | 6 | 162 |
| 046 | DWSH | JUR | | 1 | D47 | SR | RIMS | | 2 | 44 |
| 046 | GREY | BEV | ROSA | 1 | D39 | WW | RIMS GIRTH; CF SPOOL | | 2 | 36 |
| 046 | GREY | BWM | B | 1 | D39 D41 | vv vv | RIM NECK CF SPOOL | | 2 | 136 |
| 040 | GREY | BWM | D | 1 | D41 D42 | WW? | RIMS BS | | 3 | 378 |
| 040 | UKE I | D W WI | | 1 | D42 | vv vv : | RIMS; GRY WASH | | , | 578 |
| 046 | GREY | BWM | | 1 | D43 | WW | LOST | | 2 | 191 |
| 046 | GREY | BWM | В | | D44 | | RIM SHLDR; CF SPOOL | | 1 | 152 |
| 046 | GREY | BWM | BS; BWL | 1 | | | BSS CF SPOOL | | 3 | 229 |
| 046 | GREY | BWM | | 2 | | | BSS SHLDR | | 2 | 68 |
| 046 | GREY | BWM? | BS | | | | BS; GREY WASH | | 1 | 22 |
| 046 | GREY | CLSD | | 2 | | | BSS; GREY WASH | | 3 | 98 |
| 046 | GREY | FDN | | | D38 | WW | RIM NECK CF SPOOL | | 1 | 49 |
| 046 | GREY | J | | 1 | | AI | BASE BS; GYBN; GRY WASH INT ABR; 15% | | 2 | 152 |
| 046 | GREY | JB | | | | | BS GROOVE CF SPOOL | | 1 | 31 |
| 046 | GREY | JBL | | | | BBX | BASE THICK PROB BWM | | 1 | 274 |

| 0.47 | CDEV | ICD | | | | | | | | |
|------------|---------|-----------|-------|---|-----|----------------|---|---|---|-----|
| 046 | GREY | JCR | | | | | RIM FRAG | | 1 | 11 |
| 046 | GREY2 | JLS | | 1 | D48 | BR; SX | RIMS SHLDR BASE | | 3 | 90 |
| 046 | GREY2? | BWM? | | 1 | | WW? | BASE STRING BSS; PROB BWM | | 6 | 403 |
| 046 | LCOA | BEXR | ROUJ | | D40 | | RIM GIRTH | | 1 | 70 |
| 046 | LCOA | J | | | | | BASE | | 1 | 28 |
| 046 | LCOA | JLS | | 1 | D46 | SR | RIMS; NR JDLS | | 2 | 62 |
| 046 | NVCC | BD | | | | BE | BASE STRING WHT FABDKBN CC | | 1 | 11 |
| 046 | NVCC | BD | | | | VA; WW; BBX | BASE CC LOST; BUFF RDBN CC; AS IN? | | 1 | 57 |
| 046 | NVCC | LBX | ROUZ | | D37 | BR | RIM GIRTH; WHT FAB BN CC | | 1 | 10 |
| 046 | OX | CLSD | | 2 | | | BSS CF SPOX | | 3 | 21 |
| 046 | OX | CLSD | | | | | BASE; OX EXT GRY INT; BURNT? AS IN | 1 | 1 | 33 |
| 046 | SAMCG | 31 ETC | | | | Α | RIM GIRTH | - | 1 | 6 |
| 510 | Simileo | 210 | | | | | BASE; CON CEN | | 1 | |
| 046 | SPOX? | D | | | | VA | CIRCS INT | | 1 | 58 |
| 046 | SPOX? | UJ | | 1 | D52 | BB; BX | BASE BSS | | 4 | 52 |
| 046 | SPOX? | UJ | | 1 | | | BASES STRING; FM AS DWG 49 EXTR | | 2 | 78 |
| 046 | ZDATE | | | | | | ML4C | | | |
| 046 | ZZZ | | | | | | LGE GRP LGE SHS INC ROSAX + SAMCG | | | |
| 049 | GREY | CLSD | | | | А | BS | | 1 | 4 |
| 049 | GREY | JB | | | | WW? | BS; CF SPOOL | | 1 | 34 |
| 049 | OX | B31 | | | D5 | WW? | RIM BASE PROF; PROB SPOX; FS | | 1 | 111 |
| 049 | ZDATE | | | | | | L3-4C | | | |
| 049 | ZZZ | | | | | | PROB 4C | | | |
| 069 | LCOA? | J | | | | BI; BE?; | BS; UNUS FAB LT BN EXT; FS | | 1 | 31 |
| 069 | ZDATE | 5 | | | | DI, DL., | 4C? | | 1 | 51 |
| | | | | | | | | | | |
| 069 072 | ZZZ | JS | | | | | PROB 4C RIM FRAG; RDBN MARGS; GREY CORE | | 1 | 19 |
| 072 | | | HM? | 1 | | DI. I | BS; RDBN EXT; BLK | | 2 | |
| | DWSH | J | ПИI (| 1 | | BI; L | INT; EXTR | | | 13 |
| 072 | GREY | BWM | | | | A; WW | RIM FRAG BSS V HIGH FIRED; | | 1 | 23 |
| 072 | GREY | BWM? | BS | 1 | | | BLK; SPOOL? | | 2 | 129 |
| 072 | GREY | CLSD | | | | | BS LTGRY | | 1 | 8 |
| 072 | GREY | CLSD | | | | WW | BS; LTBN CORE & INT | | 1 | 12 |
| 072 | GREY | CLSD | | | | WW | BS | | 1 | 14 |
| 072 | GREY | CLSD | В | | | WW | BS GRY BN; HIGH FIRED | | 1 | 10 |
| 072 | GREY | CLSD | | | | | BS GRY BN | | 1 | 5 |
| 072 | GREY | J | | | | | BS | | 1 | 14 |
| 072 | GREY | J | НМ | | | | BS BLK; ROM? OR SAX; EXTR | | 1 | 3 |
| 072 | GREY | JBK | В | 1 | | | BS THIN; CF SPOOL | | 1 | 6 |
| 072 | GREY | JBK | _ | - | 1 | | BS THIN | | 1 | 2 |
| 072 | GREY | JBL | BVL? | | 1 | WW | BS LT GRY | | 1 | 97 |
| 012 | UKL I | JDL | D111 | | Į | ** ** | | | 1 | 91 |

| | an nu | | | | | | 2.0 | | | |
|-----|--------|--------|-------------|---|-----|--------|---|-----|---|------|
| 072 | GREY | JBL | | | | | BS | | 1 | 99 |
| 072 | GREY | JS | BHL | | | | BS THICK CF SPOOL | | 1 | 97 |
| 072 | GREY2 | CLSD | | | | | BS | | 1 | 9 |
| 072 | GREY2? | CLSD | | 1 | | A; WW? | BSS | | 2 | 10 |
| 072 | GROG | | HM? | | | | BSS; RDBN EXT; BLK INT; EXTR | | 1 | 2 |
| 072 | LOCA | J | | | | | BS; DK GRY | | 1 | 28 |
| 072 | MOSP | MBF | | 1 | D17 | А | RIMS J BS; MX TRIT; WHT SLIP NR LOST | | 3 | 50 |
| 072 | MOSP | MBF | | | D18 | А | RIM UPPER WALL; RED? SLIP LOST | | 1 | 42 |
| | | | | | | | BASES J;ORNGE OXID; PROB MED | | | |
| 072 | MPOT? | CLSD | | | | VA | JUG BASE THUMB;ORNGE | | 2 | 72 |
| 072 | MPOT? | CLSD | | | | | OX; MED JUG? BSS J GRY WHT | | 1 | 25 |
| 072 | TILE | JS | | 1 | | | SLIP?; EXTR | | 2 | 100 |
| 072 | ZDATE | | | | | | 4C | | | |
| 072 | ZZZ | | | | | | 2 SHS POSTRO? | | | |
| 074 | GREY | J | ROUJ SWL | 1 | | | BSS SHLD; CF SPOOL | | 5 | 152 |
| 074 | ZDATE | | | | | | L3-4C | | | |
| 074 | ZZZ | | | | | | 4 SHS SPOOL SWL ROUJ | | | |
| 082 | TILE | JS | | | | А | BS; FS | | 1 | 206 |
| 082 | ZDATE | | | | | | 3-4C | | | |
| 082 | ZZZ | | | | | | TILE JS ONLY | | | |
| 084 | GREY1 | J | | | | | BS BASAL | | 1 | 106 |
| 084 | GREY2 | BFB | | 1 | | VA | RIMS FLANGE J | | 2 | 13 |
| 084 | GREY2 | BWM? | | 1 | | WW | BSS J GRTH GRVES W DK SLIP? + SCRAP | | 2 | 78 |
| 084 | GREY2 | J | | 1 | | WW? | BASES J; FS | | 2 | 78 |
| 084 | GREY2 | J | | 1 | | K? | BSS BASAL; SHEARED WASTER?; EXTR | | 8 | 285 |
| 084 | GREY2 | L | | | D6 | BR | RIM UPPER WALL | | 1 | 19 |
| 084 | ZDATE | | | | | | 4C | | | |
| 084 | ZZZ | | | | | | POSS KILN WASTER | | | |
| 086 | COAR | JDW | | | | | RIM BLK | | 1 | 13 |
| 086 | COAR | JS | | 1 | | WW | BSS THICK CORDON CF GREY2 AS IN | 118 | 5 | 1515 |
| 086 | COAR | JS | | 1 | | WW | BSS THICK CORDON DK GREY WASH | | 3 | 375 |
| 086 | GREY | BD | | 1 | | | BASE BS BLK | | 2 | 34 |
| 086 | GREY | BEV | | | | | RIM GIRTH | | 1 | 21 |
| 086 | GREY | BEXR | | | | VA | RIM GIRTH | | 1 | 20 |
| 086 | GREY | BFB | | | | A; WW | RIM GIRTH; CF SPOOL | | 1 | 22 |
| 086 | GREY | BFBL | | | | | RIM UPPER WALL BLK | | 1 | 12 |
| 086 | GREY | BFL | | | | А | RIM LWR WALL | | 1 | 29 |
| 086 | GREY | BTR | | | | A; WW | RIM UPPER WALL | | 1 | 14 |
| 000 | | BWM | BS | 1 | | A, WW | BSS J V LGE BWM STORAGE | | 2 | 588 |
| 086 | GREY | DYVIVI | | | | | | | | |

| CLAU Report No. 467: Meadow Lane, North Hykeham, Lincolnshire |
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| Assessment Report |

| | | | | | 1 | | 1 | | T |
|------|-------|-------|------|----|-----|--------|---|-----|----------|
| 086 | GREY | BWM | | | | VA; WW | BS | 1 | 12 |
| 086 | GREY | BWM | В | | | WW | RIM CF SPOOL | 1 | 37 |
| 086 | GREY | BWM | | | | WW | RIM CF SPOOL | 1 | 14 |
| 086 | GREY | BWM | | | | WW | RIM CF SPOOL | 1 | 16 |
| 086 | GREY | BWM | | | | VA | RIM | 1 | 18 |
| 086 | GREY | BWM? | BS | | | А | BS GY BN | 1 | 20 |
| 0.07 | CDEV | CL CD | | | | ***** | BSS MISC INC PROB | 100 | 1500 |
| 086 | GREY | CLSD | | | | WW | BWM | 106 | |
| 086 | GREY | СР | | | | | RIM RIM LWR WALL CF | 1 | 8 |
| 086 | GREY | DGR | | | | WW | SPOOL | 1 | 12 |
| | | _ | | | | | RIM LWR WALL CF | | |
| 086 | GREY | DPR | | | | WW | SPOOL | 1 | 33 |
| 086 | GREY | J | | | | | BSS | 2 | 165 |
| 086 | GREY | J | | | | | BSS DKGRY | 4 | 86 |
| 086 | GREY | J | BVL | | | | BS | 1 | 23 |
| 086 | GREY | J | | 1 | | | BASES | 2 | 33 |
| 086 | GREY | J | | | | A; B | BS; THIN OX INT | 1 | 5 |
| 086 | GREY | J | | | | В | BS; OX INT | 1 | 26 |
| 086 | GREY | J | | | | | BSS BLK | 3 | 18 |
| 086 | GREY | J | | | | | RIM FRAG | 1 | 2 |
| 086 | GREY | J105? | | 1 | | | RIMS CF J105-7 | 2 | 36 |
| 086 | GREY | JBK | | 1 | | WW | BSS THIN | 7 | 41 |
| 086 | GREY | JBL | | 3 | | WW | BSS THICK | 3 | 459 |
| 086 | GREY | JCUR | | 5 | | A | RIM BLK | 1 | 7 |
| 086 | GREY | JDW | | | | A | RIM | 1 | 23 |
| 086 | GREY | JDW | | | | WW | RIM | 1 | 11 |
| 086 | GREY | | | | | vv vv | RIM NECK | 1 | 11 |
| | | JFT | | | | 11/11/ | - | | |
| 086 | GREY | JS | | | | WW | BS THICK | 1 | 174 |
| 086 | GREY | OPEN | | | | | BASE | 1 | 55 |
| 086 | GREY2 | JBL | | 2 | | WW | BSS THICK | 5 | 252 |
| 086 | GREY2 | JS | BS | 1? | | VA; WW | BS THICK CORDON; GREY WASH LOST | 8 | 698 |
| 086 | LCOA | BIBF | | | D57 | WW | RIM GIRTH | 1 | 30 |
| 086 | LCOA | СР | | | | Α | RIM | 1 | 24 |
| 086 | LCOA | JB | | | | A | BASE BSS | 3 | 41 |
| 086 | LCOA | JLS | | 1 | | A | RIM BSS | 3 | 65 |
| 000 | LCON | 3115 | | 1 | | 11 | KNOB LWR WALL; | 5 | 05 |
| 086 | NVCC | LCOF | ROUZ | 1 | D58 | VA; BX | PRECOCT | 2 | 210 |
| 086 | ZDATE | | | | | | L4/POSTRO | | |
| 086 | ZZZ | | | | | | V LGE GRP SMALLER ABR SHS; 1 MPOT | | |
| 087 | GREY | BFB | В | | D21 | | RIM GIRTH CF SPOOL | 1 | 68 |
| 087 | GREY | J | | 1 | | | BSS BN CORE | 2 | 24 |
| 087 | GREY | JCR | | | D23 | | RIM NECK CF SPOOL | 1 | 219 |
| 087 | GREY | JL | BVL | 1 | D22 | | BASE BSS CF SPOOL | 3 | 338 |
| 087 | MOSP | МНН | | | D20 | | RIM - LWR WALL SPOUT; GOOD EG TRITS | 1 | 160 |
| 087 | TILE | JS | | | D19 | | BASE + FLAKE | 2 | 874 |
| 087 | ZDATE | | | | | | 4C | | |
| 087 | ZZZ | | | | | | 10 V LGE SHS IN JCR | | 1 |
| 00/ | LLL | | | | | | IV V LUE SHS IN JUK | I | <u> </u> |

| | | | | | | | MOSP BFB | | | |
|-----|----------------|------|--------|----|-----|------------|----------------------------------|-----|---|----------|
| | | | | | | | BS FLAKE; BLOWN?; | | | |
| 088 | GREY | J | | 1 | | K? | EXTR | | 2 | 20 |
| 088 | GREY | J | | | | VA; VB; K? | BASE EXTR FS | | 1 | 58 |
| 088 | GREY2? | | | | | VB; BE | BS EXTR FS | | 1 | 25 |
| 088 | ZDATE | | | | | | 3-4C | | | |
| 088 | ZZZ | | | | | | KILN WASTERS? | | | |
| | | | | | | | BS; MIN PEBBLES; NR | | | |
| 090 | GREY2? | J | | | | VA; | LCOA; FS BS; MIN PEBBLES; NR | | 1 | 31 |
| 090 | GREY2? | OPEN | | | | | LCOA; FS | | 1 | 30 |
| 090 | ZDATE | | | | | | 3-4C | | | |
| 090 | ZZZ | | | | | | 2 SHS GREY ONLY | | | |
| 092 | GREY2 | J | | | | WW; D | BS BN DEPOS INT | | 1 | 14 |
| 092 | ZDATE | - | | | | ,_ | 3-4C | | - | |
| 092 | ZZZ | | | | | | 1 SH GREY ONLY | | | |
| 092 | GREY2 | J | | | | WW? | BS; FS | | 1 | 16 |
| 094 | GRET2 GREY2 | JBK | | 1 | | WW? | BSS THIN WALL | | 2 | 17 |
| 094 | GREY2 | JCR | | 1 | D8 | ** ** : | RIM NECK: BLK | | 1 | 79 |
| 094 | GRET2 GREY2 | JUK | | | D8 | VB; WW? | BS EXTR | | 1 | 21 |
| 094 | ZDATE | | | | | VD, WW? | L3-4C | | 1 | 21 |
| 094 | ZZZ | | | | | | 1 SH VBURNT | | | |
| 094 | | | | | | | RIM GIRTH BS BLK; | | | |
| 098 | GREY | BFB | | 1 | D7 | | FS | | 2 | 48 |
| 098 | GREY2 | J | | 1? | | | BASE BSS | | 3 | 35 |
| 098 | ZDATE | | | | | | 4C | | | |
| 098 | ZZZ | | | | | | 5 SHS INC BFB | | | |
| 106 | DWSH | JDLS | | 1 | D27 | BR; BI | RIM BS; BN EXT BLK INT; AS IN | 118 | 2 | 44 |
| 106 | GREY | BFB | | | D28 | WW | RIM GIRTH | | 1 | 34 |
| | | | | | | | BASE; CF SPOOL; BN | | | |
| 106 | GREY | JBL | | | | | DEPOSIT | | 1 | 94 |
| 106 | LCOA | JDLS | | | D29 | WW | RIM SHLDR | | 1 | 108 |
| 106 | MONV | MBF | | | | | FLANGE FRAG | | 1 | 22 |
| 106 | ZDATE | | | | | | ML4C | | | |
| 106 | ZZZ | | | | | | WW LGE SHS INC JDLS | | | |
| 109 | LCOA | J | | | | | BS; BN GRY; FS | | 1 | 15 |
| 109 | ZDATE | | | | | | 4C | | | |
| 109 | ZZZ | | | | | | 1 SH LCOA ONLY | | | |
| 109 | ZZZ | | | | | | 1 SH GREY NVCC LFAB | | | |
| 117 | GREY | BWM | | | D26 | WW | RIM GIRTH CF SPOOL | | 1 | 84 |
| 117 | LCOA | L | | | D25 | WW | RIM UPPER; CF GRY 2;FITS D27 | | 1 | 40 |
| 117 | ZDATE | | | | | | 4C | | | 1 |
| 117 | ZZZ | | | | | 1 | 2 LGE SHS INC BWM | | | |
| 118 | COAR | JS | | | | | BS THICK CORDON; EXTRAS IN | 86 | 1 | 178 |
| 118 | DWSH | J | HM? | | | L | BS BLK EXTR; AS IN | 106 | 1 | 9 |
| 118 | GREY | JBL | 111/1; | | | VA | BS THICK CF SPOOL | 100 | 1 | 27 |
| 118 | ZDATE | JDL | | | | V A | L3-4C | | 1 | 21 |
| | | | | | | | | | | + |
| 118 | ZZZ | | | | | | 3 SHS GREY ONLY | | | |

| | | | | | | | INC DOLIA | | | 1 |
|------------|---------------|-----------|-----|----------|-----|----------|------------------------------------|-----|---|-----------|
| 119 | LCOA | J | | | | | BS; BLK HIGH FIRED | | 1 | 39 |
| 119 | NVGWC | J | | | | WW | BS; FS | | 1 | 14 |
| 119 | ZDATE | 5 | | | | ** ** | 4C | | 1 | 14 |
| 123 | GREY | BWM | | | | WW | BS SHLDR AS IN | 131 | 1 | |
| 123 | LCOA | J | | | | ** ** | BASE STRING 100% | 151 | 1 | 221 |
| 123 | LCOA | J | | | | A . W/W/ | BASE 25% | | 1 | 60 |
| 123 | ZDATE | J | | | | A; WW | 4C | | 1 | 00 |
| 123 | ZDATE | | | | | | 4C LGE SHS INC GREY | | | |
| 123 | ZZZ | | | | | | COAR + BWM | | | |
| 131 | GREY | BWM | | 1 | D30 | WW | RIM NECK BS; CF SPOOL; AS IN | 123 | 2 | 357 |
| 131 | OX | BWM | | | D31 | WW | RIM CF LCOA; FS | | 1 | 16 |
| 131 | ZDATE | | | | | | 4C | | | |
| 131 | ZZZ | | | | | | LGE SHS INC BWM | | | |
| | | | | | | | BASE STRING; NVCC | | | |
| 139 | GRFF? | BD | | | | SI; VB | VBUNRT?; EXTR | | 1 | 68 |
| 139 | ZDATE | | | | | | 3-4C | | | <u> </u> |
| 139 | ZZZ | | | | | | 1 SH GREY BD SOOT ONLY | | | |
| 140 | GREY | J | | | | | BS | | 1 | 99 |
| 140 | GREY1 | СР | | 1 | | WW | BS SHLDR | | 2 | 30 |
| 140 | GREY2 | J | | | | | BS | | 1 | 23 |
| 140 | NVGWC? | DPR | BDL | | D32 | | RIM LWR WALL; PALE GRY CORE | | 1 | 28 |
| 140 | PART | JBK | CMD | | D33 | | FTM GIRTH | | 1 | 77 |
| 140 | ZDATE | | | | | | 3C | | | |
| 140 | ZZZ | | | | | | LGE SHS INC PART CMD DEC | | | |
| 141 | GREY1 | JBK | | | | | BS THIN; EXTR | | 1 | 6 |
| | 0.14 | IDV | | | | | BSS J; VCOARSE CF | | • | _ |
| 141 | OX | JBK | | 1 | | | LCOA; FS | | 2 | 5 |
| 141 | SPOX? | B38 | | | | BF | FLANGE GIRTH; EXTR | | 1 | 105 |
| 141 | ZDATE | | | | | | 4C | | | <u> </u> |
| 141 | ZZZ | | | | | | SMALL INC SPOX B38 | | | <u> </u> |
| 142 | DWSH | J | | | | BX | BS | | 1 | 3 |
| 142 | CDEV | IDI | | 1 | | VB; WW; | BASE BSS; BURNT OXID; EXTR POSS | | 2 | 256 |
| 142 142 | GREY GREY2 | JBL JB | | 1 | | K? | KILN? BS | | 3 | 256 19 |
| | GREY2 | | | | | | | | | |
| 142 | PART | JBK | | | | | BS EXTR | | 1 | 18 |
| 142 | ZDATE 777 | | | | | | M3-4C | | | + |
| 142 | ZZZ | г | | | | | PART GREY BURNT | | 1 | 17 |
| 143 | GREY1 | F | | | | | HANDLE 3K | | 1 | 16 |
| 143 | ZDATE | | | | | 117117 | 3C+ | | | |
| 143 | ZZZ | Ţ | | | | WW | GREY HANDLE ONLY | | 1 | 62 |
| 147 | GREY1 | J | | | | WW | BS | | 1 | 63 |
| 147 | ZDATE | | | | | | 3-4C | | | |
| 147 | ZZZ | | | | | | GREY ONLY RIM BS; WM; V | | | |
| 149 | COAR | СР | | 1 | D34 | | COARSE Q; FS | | 2 | 22 |
| 149 | ZDATE | | | <u> </u> | ļ | ļ | 3C+ | | | <u> </u> |

| | | | 713 | sessment | пероп | | | |
|-----|-------|-----------|---------|----------|---------------|------------------------------------|-------|-----|
| 149 | ZZZ | | | | | GREY CP ONLY | | |
| 151 | GREY | J | 1 | | D; WW | BSS BN DEP | 2 | 14 |
| 151 | ZDATE | | | | , | 3C+ | | |
| 151 | ZZZ | | | | | 2 SHS GREY ONLY | | |
| 153 | VESIC | | | | L | BS; THIN; FS | 1 | 1 |
| 153 | ZDATE | | | | | RO | | |
| 153 | ZZZ | | | | | 1SH ABR VESIC | | |
| 161 | GREY2 | J | | | | BS | 1 | 5 |
| 161 | ZDATE | | | | | 2-4C | | |
| 161 | ZZZ | | | | | 1 SH GREY | | |
| 163 | LCOA | L | | D36 | | RIM | 1 | 21 |
| 163 | ZDATE | | | | | 4C | | |
| 163 | ZZZ | | | | | LCOA ONLY | | |
| 165 | LCOA | JLS | | | BR; VA; WW | RIM FRAG | 1 | 8 |
| 165 | ZDATE | | | | | 4C | | |
| 165 | ZZZ | | | | | 1 SH GREY CF LCOA JLS | | |
| 171 | GREY | BD | | | VBE; K? | BASE; EXTRACTED | 1 | 43 |
| 171 | GREY2 | JBK | | | | BS THIN | 1 | 2 |
| 171 | ZDATE | | | | | 2-4C | | |
| 171 | ZZZ | | | | | 2 SHS GREY | | |
| 182 | NVGW | BD | | | | BASE; STAINED | 1 | 23 |
| 182 | ZDATE | | | | | M2-3C | | |
| 182 | ZZZ | | | | | NVGW ONLY | | |
| 187 | GRFF | JB | | | WW | BS; GROOVE; FS | 1 | 26 |
| 187 | ZDATE | | | | | 3-4C | | |
| 187 | ZZZ | | | | | 1 SH GREY ABR WATER WORN | | |
| 188 | COAR | J | | | | BASE; FS | 1 | 13 |
| 188 | ZDATE | | | | | 3-4C | | |
| 188 | ZZZ | | | | | 1 SH GREY OPEN COARSE | | |
| 190 | GREY1 | J | | | | BS | 1 | 8 |
| 190 | NVCC | BK | | | | BS PALE ORANGE FAB BN CC | 1 | 2 |
| 190 | ZDATE | | | | | M3-4C | | |
| 194 | GREY | BWM | | D35 | WW | RIM FLAKE; CF SPOOL AS GREY2 | 2 | 63 |
| 194 | ZDATE | 10 10 101 | | 555 | ** ** | L3-4C | 4 | 55 |
| 194 | ZZZ | | | | | GREY BWM SCRAP | | |
| 196 | GREY2 | J | | | | BS | 1 | 6 |
| 196 | ZDATE | - | | | | 2-4C | | ~ |
| 196 | ZZZ | | | | | GREY SH ONLY | | |
| 202 | GREY | | | | | BS SCRAP CF SPOOL | 1 | 4 |
| 202 | GREY2 | J | 2 | | WW | BSS | 2 | 8 |
| 202 | MOMH? | М | | | | BS UNUS TRITS INC GROG SHOW KAY | 1 | 102 |
| 202 | SAMCG | 31 ETC | | | | FLAKE | 1 | 2 |
| 202 | ZDATE | | | | | M2-3C | | |
| I | 1 | | | | | 2C S A M + E A D I V | | |

202

ZZZ

2C SAM + EARLY MOMH?

| | Т | 1 | 1 | | | | | |
|-----|--------|-----|---|---|----|--------------------------------|-------|----|
| 204 | GREY2 | J | | | | BS | 1 | 18 |
| 204 | ZDATE | | | | | 3-4C | | |
| 204 | ZZZ | | | | | 1 SH GREY ONLY | | |
| 206 | GREY1 | J | | | WW | BASE; STRING | 1 | 41 |
| 206 | ZDATE | | | | | 3-4C | | |
| 206 | ZZZ | | | | | GREY BASE ONLY | | |
| 208 | GREY | J | | | D | BASE; FE STIN INT; CF SPOOL | 1 | 76 |
| 208 | ZDATE | | | | | 3-4C | | |
| 208 | ZZZ | | | | | GREY BASE ONLY LGE | | |
| 230 | GREY2 | J | | | D | BS STAINED BROWN | 1 | 20 |
| 230 | ZDATE | | | | | 2-4C | | |
| 230 | ZZZ | | | | | 1 SH GREY ONLY | | |
| 238 | LCOA | J | | | | BS THINNISH | 1 | 7 |
| 238 | LCOA | JBL | | | WW | BS | 1 | 74 |
| 238 | ZDATE | | | | | 4C | | |
| 238 | ZZZ | | | | | INC LCOA | | |
| 246 | GREY2 | J | | 1 | BX | BSS; 1SH BX | 3 | 20 |
| 246 | ZDATE | | | | | 2-3C | | |
| 246 | ZZZ | | | | | GREY ONLY 3 SHS 1 VESS | | |
| 248 | LCOA | J | | | | BS BLK | 1 | 12 |
| 248 | ZDATE | | | | | 4C | | |
| 248 | ZZZ | | | | | LCOA ONLY | | |
| 252 | GREY2? | JBK | | | | BS THIN COARSER FAB | 1 | 2 |
| 252 | ZDATE | | | | | 2-4C | | |
| 252 | ZZZ | | | | | 1 SCRAP GREY ONLY | | |

Key:

| COAR | Miscellaneous coarse wares |
|-------|---|
| DR20 | Dr 20 amphorae |
| DWSH | Late shell-tempered; Dales ware; lid-seated jars etc. |
| GFIN | · · · · · |
| 01111 | Miscellaneous fine grey wares |
| GREY | Miscellaneous grey wares |
| GREY1 | Grey fabric 1 |
| GREY2 | Grey fabric 2 |
| GRFF | Grey fairly fine fabric |
| GRFF? | Grey fairly fine fabric? |
| GROG | Grog-tempered wares |
| GRSAN | Grey with sandwich fabric |
| LCOA | Late coarse pebbly fabric |
| MOMH? | Mancetter/Hartshill mortaria? |
| MONV | Nene Valley mortaria |
| MOOX | Oxfordshire parchment ware mortaria |
| MOOXW | Oxfordshire white-slipped mortaria |
| MOSP | Swanpool mortaria |
| MPOT? | Medieval pot? |
| NVCC | Nene Valley colour-coated |
| NVGW | Nene Valley grey ware |
| NVGWC | Nene Valley grey ware coarse |
| OX | Miscellaneous oxidized wares |
| PART | Parisian type wares |
| SAMCG | Central Gaulish samian wares |
| | |

| SPCC? | Swanpool colour-coated? |
|-------|--------------------------|
| SPOX? | Swanpool oxidized wares? |
| TILE | Tile fabric vessels |
| VESIC | Vesicular fabric |

1.6 Roman Pottery by Context and Sherd Count

| Context | Sherds | Date |
|---------|--------|------------|
| 001 | 77 | L4/POSTRO |
| 002 | 20 | EM4C |
| 005 | 2 | ML4C |
| 011 | 1 | 3-4C |
| 016 | 2 | 3-4C |
| 017 | 1 | 3-4C |
| 022 | 1 | 4C |
| 024 | 12 | EM4C |
| 026 | 2 | 3-4C |
| 028 | 3 | 4C |
| 032 | 2 | L3-4C |
| 043 | 41 | ML4C |
| 044 | 2 | L3-4C |
| 045 | 13 | ML4C |
| 046 | 70 | ML4C |
| 049 | 3 | L3-4C |
| 069 | 1 | 4C? |
| 072 | 32 | 4C/POSTRO? |
| 074 | 5 | L3-4C |
| 082 | 1 | 3-4C |
| 084 | 16 | 4C |
| 086 | 192 | L4/POSTRO |
| 087 | 10 | 4C |
| 088 | 4 | 3-4C |
| 090 | 2 | 3-4C |
| 092 | 1 | 3-4C |
| 094 | 5 | L3-4C |
| 098 | 5 | 4C |
| 106 | 6 | ML4C |
| 109 | 1 | 4C |
| 117 | 2 | 4C |
| 118 | 3 | L3-4C |
| 119 | 2 | 4C |
| 123 | 3 | 4C |
| 131 | 3 | 4C |
| 139 | 1 | 3-4C |
| 140 | 6 | 3C |
| 141 | 4 | 4C |
| 142 | 6 | M3-4C |
| 143 | 1 | 3C+ |
| 147 | 1 | 3-4C |
| 149 | 2 | 3C+ |

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| 2 | 3C+ |
|---|--|
| 1 | RO |
| 1 | 2-4C |
| 1 | 4C |
| 1 | 4C |
| 2 | 2-4C |
| 1 | M2-3C |
| 1 | 3-4C |
| 1 | 3-4C |
| 2 | M3-4C |
| 2 | L3-4C |
| 1 | 2-4C |
| 5 | M2-3C |
| 1 | 3-4C |
| 1 | 3-4C |
| 1 | 3-4C |
| 1 | 2-4C |
| 2 | 4C |
| 3 | 2-3C |
| 1 | 4C |
| 1 | 2-4C |
| | $ \begin{array}{c} 1\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 2\\ 2\\ 1\\ 1\\ 1\\ 1\\ 1\\ 2\\ 3\\ 1\\ 1 \end{array} $ |

1.7 Bulk Finds

| Context | Туре | Count | Comments/Weight | |
|---------|------|-------|--|--|
| 001 | BOTT | 1 | MOD; 20C; DIS | |
| 001 | SLAG | 9 | 153g COPW | |
| 001 | MSTO | 3 | 13g IROS DIS | |
| 001 | MSTO | 2 | 7g FOSSIL DIS | |
| 001 | OMIS | 9 | 158g LEAD MELT WASTE | |
| 001 | OMIS | 1 | MOD; 20C; 1937; GEORGE 6 HALFPENNY | |
| 001 | OMIS | 1 | MOD; COPP STUD/MOUNT | |
| 001 | OMIS | 1 | MOD; IRON KNIFE; WOOD HANDLE 2XCOPP RIVETS | |
| 002 | MSTO | 1 | 2140g SST BURNT? | |
| 045 | OMIS | 2 | 40g FERROUS CONCRETION | |
| 049 | MSTO | 1 | BURNT LST | |
| 056 | MSTO | 2 | 338g FERROUS CONCRETION + PEBBLES | |
| 057 | MSTO | 1 | 16g FERROUS CONCRETION + PEBBLES | |
| 072 | COAL | 1 | 3g BURNT DIS | |
| 072 | MSTO | 1 | 38g FLINT | |
| 072 | MSTO | 2 | 10g BURNT IRON-RICH SST | |
| 072 | FIRE | 2 | 83g DAUB? | |
| 089 | FIRE | 1 | 88g | |
| 100 | WIND | 1 | PMED/MOD | |
| 106 | MSTO | 2 | 7g BURNT IRON-RICH SST | |
| 117 | MSTO | 1 | 2320g BURNT | |
| 140 | FIRE | 1 | 74g DAUB? | |
| 142 | MSTO | 1 | 4g IROS DIS | |
| 142 | FIRE | 2 | 116GM | |
| 187 | MSTO | 1 | 33g IROS DIS | |
| 187 | MSTO | 1 | 64g FROST FRACTURED PEBBLE DIS | |
| 188 | MSTO | 2 | FOSSIL (BELEMNITE) DIS | |
| 196 | MSTO | 2 | 28g BURNT IRON-RICH SST | |

| 133 | SLAG | 1 | 13g COPW | | | | | | |
|------|---------------------|----------|----------|--|--|--|--|--|--|
| Key | | | | | | | | | |
| BOTT | Bottle glass | | | | | | | | |
| COPP | Coppe | er alloy | | | | | | | |
| COPW | Copper working | | | | | | | | |
| DIS | Discarded | | | | | | | | |
| FIRE | Fired clay | | | | | | | | |
| IROS | Ironstone | | | | | | | | |
| LST | Limestone | | | | | | | | |
| MOD | Modern | | | | | | | | |
| MSTO | Miscellaneous stone | | | | | | | | |
| OMIS | Other miscellaneous | | | | | | | | |
| PMED | Post-medieval | | | | | | | | |
| SST | Sandstone | | | | | | | | |
| WIND | Window glass | | | | | | | | |

1.8 Registered finds

| Context | Finds No. | Material | Object | Date/Comments |
|---------|-----------|--------------|--------|--|
| 001 | 1 | Iron | - | Rod/Staple? |
| 001 | 2 | Flint | Waste | Prehistoric |
| 001 | 3 | Copper alloy | Coin | Roman? L3-4C? |
| 001 | 4 | Copper alloy | Buckle | Post-medieval?; D-shaped + suspension loop |
| 001 | 5 | Copper alloy | - | x2; Sheet mount/fitting |
| 001 | 6 | Copper alloy | Ring | Whole |
| 001 | 7 | Copper alloy | - | - |
| 001 | 8 | Copper alloy | Button | Late post-medieval/modern; whole |
| 001 | 9 | Lead | Waste | X8; 3 sheet 5 roof? |
| 001 | 10 | Lead | Waste | Melt |
| 001 | 11 | Copper alloy | - | Riveted mount/fitting |
| 001 | 12 | Copper alloy | - | - |
| 001 | 13 | Copper alloy | - | Curved fragment |
| 001 | 14 | Lead | - | Point waste? |
| 133 | 15 | Stone | - | Millstone Grit; reused quern; very worn |
| 196 | 16 | Stone | - | Millstone Grit; abraded |
| 232 | 17 | Stone | Quern | Millstone Grit; grooved |
| 142 | 18 | Stone | Quern | Millstone Grit; grooved, very worn |
| 133 | 19 | Iron | - | Curved rod |
| 133 | 20 | Lead | Waste | Melt |
| 133 | 21 | Lead | Waste | Sheet |
| 133 | 22 | Lead | Waste | Melt |
| 133 | 23 | Lead | Waste | Melt |
| 133 | 24 | Lead | Waste | Melt |
| 133 | 25 | Lead | Waste | Melt |
| 133 | 26 | Lead | Came | Late medieval/post-medieval; milled scrap |
| 133 | 27 | Lead | Waste | Melt blob |
| 133 | 28 | Iron | - | Medieval?; barrel-padlock? |
| 133 | 29 | Iron | Nail | - |
| 106 | 30 | Iron | Nail | - |

MEADOW LANE, NORTH HYKEHAM, LINCOLNSHIRE

ASSESSMENT REPORT

APPENDIX 2 LHA NOTE & ARCHIVE DETAILS

LHA NOTE DETAILS

CLAU CODE: NHME01

CLAU REPORT No.: 467

PLANNING APPLICATION No.: N/43/0987/00 (previously N/43/839/99)

FIELD OFFICER: Michael Jarvis

NGR: SK 947 654

CIVIL PARISH: North Hykeham

SMR No.:

DATE OF INTERVENTION: 26th February – 2nd April 2001

TYPE OF INTERVENTION: Archaeological Excavation and Assessment Report

UNDERTAKEN FOR: English Heritage

ARCHIVE DETAILS

PRESENT LOCATION: City of Lincoln Archaeology Unit, Charlotte House, The Lawn, Union Road, Lincoln, LN1 3BL.

FINAL LOCATION: The City and County Museum, Friars Lane, Lincoln.

MUSEUM ACCESSION No.: 2001.51

ACCESSION DATE: -

NOTE

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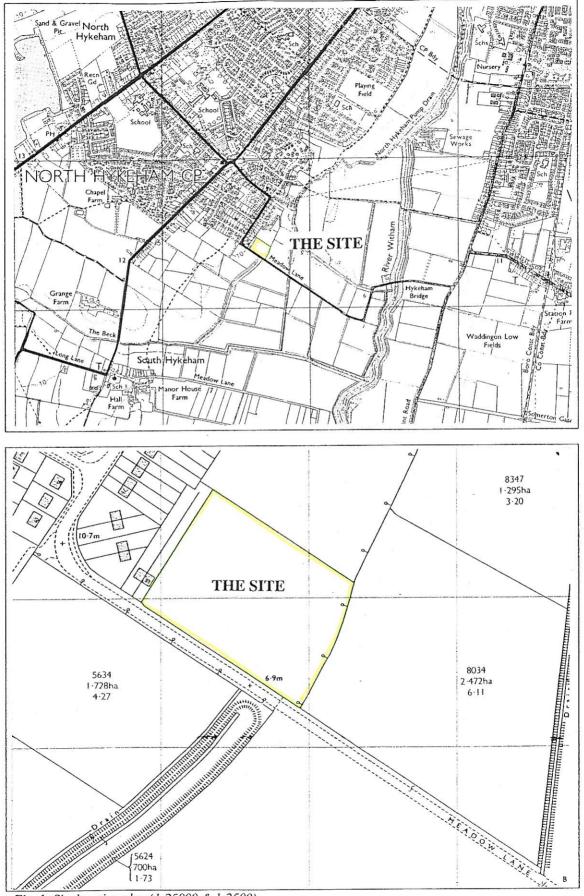


Fig. 1: Site location plan (1:25000 & 1:2500).

