Plots R20, R21b and DC3, Land East of Kettering, Northamptonshire

Post-Excavation Assessment and Updated Project Design

January 2021 (updated January 2023)

Client: RPS on behalf of Hanwood Park LLP

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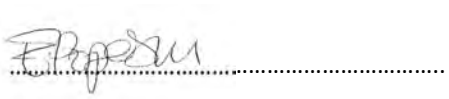
Signature:	

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Plots R20, R21b, Land East of Kettering, Northamptonshire

Post-Excavation Assessment and Updated Project Design

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Summary

Between the 3rd of March and 3rd of June 2020 Oxford Archaeology East carried out an open-area excavation on 2.22ha of land east of Kettering (SP 89740 77059; Fig. 1), in advance of a mixed development on Hanwood Park (formerly East Kettering Sustainable Urban Expansion) development Plots R20, R21b and DC3. Plot DC3 could not be accessed until July 2022. The results of Plot DC3 have been integrated with those of the original excavation in this updated report. The excavation was commissioned by RPS on behalf of Hanwood Park LLP following a desk-based assessment, geophysical survey and trial trench evaluation.

The excavation revealed only slight evidence for pre-Iron Age occupation of the site, evidenced by a pair of early ditches.

The main period of occupation on the site dates to the Iron Age, with features concentrated in the northern half of the site. The primary area of interest consisted of the western extent of a large, ditched enclosure occupying the north-eastern end of a plateau and part of its east facing slope.

Within this enclosure were two smaller ditched enclosures, one of which post-dates the outer enclosure; from which faunal remains indicate the possibility of horses having been reared on the site. The terminal of one of these enclosures, together with a nearby pit, also yielded several fragments of human skull; a common occurrence in Iron Age enclosures. Superimposed upon one of these enclosures was a pair of south facing ditches, the terminus of one of which contained a large dump of clay which has been interpreted as a failed or unused oven.

An extensive set of later medieval/post-medieval agricultural furrows, as well as several boundary ditches which post-dated them, were also uncovered across the site.

Several undated features were present along with a palaeochannel in the southern part of the site which may have been utilised in the Iron Age.

Acknowledgements

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The project was managed for Oxford Archaeology by Nick Gilmour. Fieldwork on Plots R20 and R21b was directed by Tim Lewis, who was supported by Kelly Sinclair, Matthew Edwards, Andrzej Zanko, Max Jacobs, Ellie Brown and Steve Arrow. Fieldwork on Plot DC3 was directed by Kelley Sinclair and Toby Knight, who were supported by Steve Arrow, Tomasz Neyman, Jeremy Briscombe, James Cross and Steph Matthews. Survey was carried out by Valerio Pinna and Thomas Houghton. Thanks are also extended to the teams of OA staff that cleaned and packaged the finds under the supervision of Natasha Dodwell, processed the environmental remains under the supervision of Rachel Fosberry, and prepared the archive under the supervision of Katherine Hamilton.

1 INTRODUCTION

1.1 Background

1.1.1 Between the 3rd March and 3rd June 2020 Oxford Archaeology East (OA East) conducted an excavation on land designated Plots R20, R21b and DC3 by the client (R20 only will be used throughout to refer to the whole area), east of Kettering, Northamptonshire (SP 89740 77059; Fig. 1). Plot DC3 could not be accessed until July 2022. The results of Plot DC3 have been integrated with those of the original excavation in this updated report. These excavations were undertaken in advance of development of part of Hanwood Park (formerly known as East Kettering Sustainable Urban Extension). It is a mixed-use development scheduled to contain up to 5,500 dwellings, a secondary school, up to four primary schools, open space, employment areas, local centre facilities and associated infrastructure.

1.1.2 These excavations were undertaken in accordance with the Written Scheme of Investigation (WSI; Gilmour 2019), prepared by OA East in response to a brief issued by Lesley-Anne Mather, the Northamptonshire County Council Archaeological Advisor (NCCAA; dated 29th November 2019).

1.1.3 This assessment has been conducted in accordance with the principles identified in Historic England's guidance documents Management of Research Projects in the Historic Environment, specifically The MoRPHE Project Manager's Guide (2015) and PPN3 Archaeological Excavation (2008).

1.2 Geology and topography

1.2.1 The predominant underlying geology of the site is mapped as limestone of the Blisworth Formation, overlain on the northern fringe of the site by Oadby Member Diamicton with the eastern slope consisting of mudstone of the Rutland Formation (https://mapapps.bgs.ac.uk/geologyofbritain/home.html; accessed 6th January 2021).

1.2.2 This is supported by evidence from the evaluation (Gilmour 2012) which encountered widespread weathered Cornbrash and pale clays with a typical topsoil thickness of *c.*0.25m and subsoil thickness between 0.1m and 0.29m.

1.2.3 The central (and west of central) parts of the excavation were situated upon a generally flat plateau. It was bordered to the south by a small area of open scrubland beyond which lay Cranford Road. To the west it was bordered by Barton Road and to the north and east by further fields scheduled for development as part of the overall Hanwood Park scheme.

1.3 Archaeological background

1.3.1 The archaeological and historical background has been set out in a Heritage Assessment for the Hanwood Park development (Dicks 2021) and is not repeated here.

1.3.2 During the 2012 evaluation, the current area (evaluation Area 5) contained evidence of Iron Age activity. The nature of this activity was not well defined but included an enclosure ditch and a single pit (Gilmour 2012, 53).

1.4 Previous work

1.4.1 The scope of this excavation work is based on previous phases of geophysical survey (Butler 2011) and evaluation (Gilmour 2012) conducted across the entire development area. Several excavations have been undertaken by OA East on the current scheme and on the neighbouring development site of Cranford Business Park which are detailed in the table below and shown in Figure 2.

OA Site Code	Report Title	Stage	Author
XNNEKE12	Land East of Kettering, Phase A, Archaeological Evaluation Report. Report No.1408	Evaluation	Gilmour, N. 2012
XNNEKE13	Iron Age Structures and Associated activity on Land East of Kettering Areas R7 and R8. Report No. 1530	Excavation – PXA	Gilmour, N. 2013
XNNEKE14	Field 15, South of Cranford Road, Land East of Kettering. Report No. 1595	Evaluation	Gilmour, N. 2014
XNNAWK14	Romano-British double burial at Kettering Sewerage Routing, Northamptonshire. Report No. 2169	Rescue Excavation	Haskins, A. 2018
XNNAWK15	Archaeological evaluation of Kettering Sewerage Routing, Northamptonshire. Report No. 1867	Evaluation	Gilmour, N. 2018
XNNCAB15	Cranford Business Park, Kettering, Archaeological Evaluation Report. Report No. 1859	Evaluation	Bush, L. 2016
XNNCAB16	Cranford Business Park, Kettering, Post-Excavation assessment and updated project design. Report No. 2062	Excavation – PXA	Gilmour, N. 2017
	Later Prehistoric and Romano-British Remains at Cranford Business Park, Kettering, Northamptonshire. Excavation Report. Report No. 2405	Excavation – Grey Lit	Clarke, G. 2021
	The Bronze Age, Iron Age and Romano-British Archaeology of Cranford Business Park, Burton Latimer, Kettering. *Northamptonshire Archaeology*	Excavation – Publication	Clarke, G. *forthcoming*
XNNEKE15	Iron Age and Roman Activity on land East of Kettering, the Balancing Pond site, Post-Excavation assessment and updated project design. Report No. 2121	Excavation – PXA	Gilmour, N. 2018. Updated 2022
XNNEKE20	Land East of Kettering, Phase 2, Archaeological Evaluation Report. Report No. 2465	Evaluation	Lewis, T. 2020
XNNEKE20a	Plots R20, R21b, and DC3, Land East of Kettering, Northamptonshire. Post-Excavation Assessment and Updated Project Design. OA East Report No. 2483	Excavation PXA	Lewis, T. 2021. Updated 2022
XNNEKE20b	Hanwood Park Plots R25 and E3. Post-Excavation Assessment and Updated Project Design. OA East Report No. 2494	Excavation – PXA	Clarke, G. 2021. Updated 2022

OA Site Code	Report Title	Stage	Author
XNNEKE20c	East Kettering Plot R11. Report No. 2450	Excavation – PXA	Cole, E. 2020
XNNEKE22A	Plots FOS3, DC1, and Central Open Space North, Hanwood Park, Kettering	Evaluation	Sinclair, K. 2022

Table 1: Recent works by OA East

1.5 Original research aims and objectives

1.5.1 The overall aim of the investigation was to preserve by record the archaeological evidence contained within the footprint of the development area, prior to damage by development, and investigate the origins, date, development, phasing, spatial organisation, character, function, status, and significance of the remains revealed and place these in their local, regional and national archaeological context.

Regional research aim

1.5.2 Assess the evidence for the evolution of settlement hierarchies (Knight *et al*. 2012, 64). Investigate intra-regional variations in the development of fields and linear boundary systems (*ibid*., 65).

Site specific research aims

1.5.3 The characterisation of the form and development history of the sites. Determine the role of each of the areas of Iron Age activity and their relationship to each other. In order to do this the nature of the activity on this site should be determined.

Research frameworks

1.5.4 This excavation takes place within, and will contribute to the goals of Regional Research Frameworks relevant to this area:

Knight, D., Vyner, B. and Allen, C. (2012). East Midlands Heritage: An Updated Research Agenda and Strategy for the Historic Environment of the East Midlands. Nottingham Archaeological Monographs 6.

1.6 Fieldwork methodology

1.6.1 The excavation and analysis was conducted in accordance with current best archaeological practice and the appropriate national and regional standards and guidelines including the Chartered Institute for Archaeologists (CIfA) Code of Conduct, the CIfA Standard and Guidance for Archaeological Excavation (2014a) as well as the OA Field Manual (D Wilkinson 1992) and the WSI (Gilmour 2019).

1.6.2 Stripping of overburden deposits was conducted using two tracked 360° mechanical excavators fitted with toothless buckets, under the supervision of suitably qualified and experienced archaeologists.

1.6.3 Once exposed all features were cleaned and excavated by hand and survey, drawn, written (using OA East's pro-forma sheets), and photographic records were taken.

1.6.4 Human remains were excavated in accordance with all appropriate legislation and Environmental Health regulations and take place after an exhumation license had been obtained from the Ministry of Justice.

1.6.5 Metal detecting of spoil, exposed surfaces and features was undertaken across the site; however, no artefacts of significance were recovered.

1.6.6 Surveying was conducted using a survey-grade differential GPS (Leica CS10/GS08 or Leica 1200) fitted with "smartnet" technology with an accuracy of 5mm horizontal and 10mm vertical.

1.6.7 Photographs were taken using high resolution digital imagery following procedures set out in Northamptonshire Archaeological Archive Standards Appendix A1.10 (NCC 2014). Both general site shots and photographs of specific features were taken. Every feature was photographed at least once, including a scale, north arrow, site code, and feature number (where relevant). Additionally, drone photography was used.

1.6.8 A total of 71 bulk soil samples were taken from a range of features across the site in order to assess the quality of preservation of plant remains and their potential to provide useful micro- and macro-botanical data.

1.7 Project scope

1.7.1 This assessment deals solely with the excavation phase undertaken on this site. The previous evaluation phase has been reported on separately, however, reference is made to other phases of work across the development where appropriate.

2 FACTUAL DATA: STRATIGRAPHY

2.1 General

2.1.1 The following stratigraphic records were created:

Record type	Number
Context records	853
Sections	245
Environmental samples	71
Small Finds	1
Digital photographs	935

Table 2: Table of records created

2.1.2 The preliminary phasing presented below is based on stratigraphic relationships and spatial associations, with similarity in morphology between features also considered. Where possible, this has been combined with dating evidence provided by stratified artefacts.

2.1.3 An overall plan of the excavation in relation to previous works is presented in Figure 2. Excavation plans are shown on Figures 3 and 4 with preliminary phasing given as Figures 5-8. Selected sections are given in Figures 9 and 10. Photographs of a selection of features are indicated in Plates 2-6.

2.1.4 The lowest cut number has been used as the group number for each feature group and these appear on the phased plans (Figs 5-8). The preliminary phasing used here will be refined and incorporated with the wider development at the analysis stage.

2.1.5 Four phases of activity have been identified:

Phase 0: Natural features

Phase 1: Later prehistoric (*c.*4000-350BC)

Phase 2: Middle/Late Iron Age (*c.*350BC-AD43)

Phase 3: Medieval to post-medieval (AD1200-1800)

Phase 4: Undated

2.2 Phase 0: Natural features

2.2.1 A palaeochannel (**15588**) ran on a south-west to north-east alignment in the southern half of the site. It was 2.5m wide, 0.44m deep with gently sloped sides and a rounded base. It contained two clayey silt fills varying in colour from dark grey (15638) to pale grey (15637); no datable artefacts were recovered from either.

2.2.2 Several treethrows (**15031**) were also excavated across the site, no finds or datable evidence was recovered from the bulk environmental samples taken from them. The treethrows will not be considered further.

2.3 Phase 1: Later prehistoric (c.4000-350BC)

2.3.1 Although no artefactual evidence for pre-Iron Age activity was recovered from the site, two linear ditches (**15021** and **15144**) were considered to be remnants of a pre-Iron Age system of land division. Ditch **15021** extended southwards for 52m into the excavation before terminating. Ditch **15144** entered the excavation from the north-west and traversed the site for 68m before it was truncated by Phase 2 enclosure ditch **15112**. Both ditches contained similar pale yellowish grey fills.

2.4 Phase 2: Middle/Late Iron Age (*c.*350BC-AD43)

Enclosures

2.4.1 The earliest stratified phase of Iron Age activity features was uncovered by Plot DC3. A *c.*50m long ditch (group **16035**, comprising cuts **16035**, **16054**, **16068**, **16072**, **16078**, **16086** and **16102**) defined the eastern side of a sub-square enclosure (group **16079**; cuts **16079**, **16080**, **16100**, **16112**, **16120**, **16122**, **16124**, **16126**, **16128**, **16130, 16134**).

2.4.2 Ditch **16035** lay on a broadly north-south alignment and sub-square enclosure **16079** extended to its west. The enclosure was further defined by the northern and southern arms of ditches which enclosed a *c.*15m-square internal area containing a single pit (**16096**; Fig. 10, Section 8034). A *c.*2m-wide entrance was placed centrally along its western side. The U-shaped profile of the ditch measured up to 1m wide and 0.5m deep (Fig. 10, Section 8044).

2.4.3 Ditch group **16035** and sub-square enclosure **16079** were later supplanted by the northern extent of a much larger enclosure (group **15112**; Table 3) encompassing two smaller, internal enclosures on its western side; group **15049** (cuts **15046**, **15049**, **15311**, **15327**, **15353**, **15532**, **15536**, **15546**, **15636**, **15652**, **15679**) and group **15076** (cuts **15076**, **15079**, **15204**, **15253**, **15415**, **15499**, **15507**, **15643**, **15645**, **15648**, **15699**, **15707**, **15711**).

Enclosure group 15112, cut inventory
15112, 15117, 15121, 15134, 15162, 15180, 15183, 15203, 15224, 15324, 15350, 15469, 15502, 15524, 15526, 15553, 15621, 15624, 15627, 15629, 15631, 15655, 15694, 15714, 15725, 16033, 16037, 16039, 16041, 16043, 16045, 16047, 16049, 16051, 16056, 16058, 16060, 16062, 16065, 16081, 16082, 16088, 16105, 16108, 16136, 16138

Table 3: Enclosure group 15112, cut inventory

2.4.4 There were also several curvilinear features present as well as a segmented ditch which possibly formed an internal division along the eastern edge of excavation. The only Iron Age features lying outside enclosure group **15112** were pits **15530**, **15174** and **15514** (Fig. 9, Section 4165) in the southern half of the excavation and pits **16118** and **16132** to the east. Their fills yielded two sherds (20g) of Middle Iron Age (MIA) pottery.

2.4.5 The larger, outer enclosure (**15112**) showed evidence of recutting or re-establishment over time (Fig. 9, Section 4186; Fig. 10, Sections 8026 and 8036). In total, 368 sherds (2.730kg) of MIA pottery was recovered from this feature, as well as small quantities of other finds which included animal bone, a single piece of roasted iron ore and some residual flints. The northern and southern arms of this enclosure continued eastwards beyond the edge of excavation. A sample taken from this enclosure (context 15661) was found to contain a few fragments of unidentified charred material which may be the remains of burnt food or dung.

2.4.6 This enclosure was cut by the more southerly of the two smaller D-shaped enclosures (**15049**). It had an internal diameter of *c.*14.5m and produced 107 sherds (1.276kg) of MIA pottery. The c.2m side south-east facing entrance to this enclosure was interesting in that it clearly displayed evidence for several phases of development (possibly incorporating some form of stonework) which would explain the quantities of stone present in the fill (Fig. 9, Section 4170; Plate 2). An unfused horse femur of a foal (less than three years old) was also recovered from one of these terminals as well a small quantity (two pieces, 4g) of roasted iron ore from a possible pit (**15532**) within this complex of intercutting features that formed the entrance.

2.4.7 To the north, the second D-shaped enclosure (**15076**) had a similar internal diameter (*c.*15m). It had also undergone several stages of development (Plate 3) with its earliest phases represented by several short curvilinear lengths of ditch. Interventions into this ditch produced 316 sherds (2.487kg) of MIA pottery as well as a quantity of animal bone. The faunal assemblage included an unfused horse pelvis to further suggest the presence of younger horses at this site. The terminus of the north-western arm of this feature also produced two fragments of human bone (Fig. 9, Section 4084). The south-east facing entrance was c.1.17m wide and was cut by ditch **15071**.

Curvilinear ditches

2.4.8 Truncating the top of the northern enclosure were two semicircular ditches, groups **15071** (= **15071**, **15110**, **15207**, **15220**, **15509**, **15684**, **15719**, **15727**, **15729**, **15731**, **15763**) and **15073** (=**15073**, **15108**, **15512**, **15558**, **15682**, **15688**, **15734**); both had their open sides facing southwards (Plate 4). The earlier feature (**15073**) had a projected circular diameter of 9m and produced 22 sherds (0.183kg) of MIA pottery. The later feature (**15071**) had a projected diameter of 12m and produced 74 sherds (0.603kg) of MIA pottery. A large dump of clayey material was also found in the latter feature's south-eastern terminus which is interpreted as the possible remains of a small oven (Fig. 9, Section 4068; Plate 5). Alongside that material (within cut **15207**) were four pieces of roasted iron ore (174g).

2.4.9 A group of short curvilinear or crescent shaped ditches (group **15189**; = **15189**, **15191**, **15264**, **15270**, **15272**, **15276**, **15278**, **15280**, **15300**, **15309**, **15348**, **15582**, **15584**, **15586**, **15690**) were also found in the vicinity of the inner enclosures. A total of 15 interventions were excavated into these features which yielded 101 sherds (0.946kg) of MIA pottery. Their average depth of 0.16m suggests they do not represent substantial structures but lesser constructions of more uncertain purpose**.**

Pits and post holes

2.4.10 The collection of 42 pits (group **15011**;= **15011**, **15017**, **15019**, **15092**, **15094**, **15096**, **15118**, **15130**, **15137**, **15152**, **15166**, **15170**, **15187**, **15193**, **15195**, **15197**, **15199**, **15201**, **15209**, **15211**, **15214**, **15216**, **15235**, **15237**, **15238**, **15240**, **15246**, **15261**, **15274**, **15282**, **15284**, **15286**, **15289**, **15293**, **15382**, **15417**, **15433**, **15441**, **15443**, **15445**, **15686**, **15717**) within the large enclosure group **15112** collectively produced 235 sherds (1.429kg) of MIA pottery as well as a fragment of human bone (from pit **15118**) and the only piece of metalwork from the site (metal rod SF 1501, pit **15152**). Other finds types recovered from these pits include a fragment of saddlequern, a lightly used rubbing stone as well as animal bone. These features had an average width of 0.77m and an average depth of 0.2m. Several of these pits contained large quantities of burnt stone (Plate 6). This phenomenon was particularly pronounced towards the eastern edge of the excavation, in its farthest part from the inner enclosures.

2.4.11 Ten post holes (group **15168**; = **15168**, **15177**, **15218**, **15244**, **15303**, **15305**, **15403**, **15405**, **15422**, **15424**) were related to Iron Age activity which collectively produced only two sherds (6g) of MIA pottery and 1g of animal bone. These features had an average diameter of 0.39m and an average depth of 0.17m.

Internal enclosure division

2.4.12 Towards the eastern excavation limit lay a ditch alignment which extended across the entire breadth of the outer enclosure on a north-east to south-west alignment. It consisted of several short sections of ditch (group **15266**; = **15266**, **15268**, **15376**, **15378**, **15380**, **15407**, **15435**, **15439**, **15461**, **15463**) which measured up to 0.08m deep. Ten interventions were excavated into these ditches that produced only eight sherds (12g) of MIA pottery.

2.5 Phase 3: Medieval to post-medieval (AD1200-1800)

Agricultural furrows

2.5.1 Medieval activity on the site was dominated by a series of furrows (group **15001**; = **15001**, **15003**, **15013**, **15015**, **15222**, **15227**, **15255**, **15307**) arranged *c.*3m apart across most of the site on a north-north-west to south-south-east alignment, with an average depth of *c.*2.5m. A single piece of possible Romano-British ceramic building material (CBM) was recovered from one of their fills. The lack of upstanding ridges associated with these agricultural features suggest a recent period of mechanical ploughing across the whole area had removed these earthworks.

Ditches

2.5.2 In the northern part of the site, ditch group **15047** (= **15047**, **15330**, **15332**, **15338**, **15340**, **15550**), which measured *c.*0.7m wide by *c.*0.3m deep, cut both the Phase 2 Iron Age enclosures (as well as the furrows) and was in turn cut by Phase 3 ditch group **15005**.

2.5.3 To the west of ditch **15047** (on a shared axis as the furrows) ditch **15005** (=**15005**, **15007**, **15009**, **15342**, **15459**, **15692**), which measured *c.*1m wide by *c.*0.35m deep, produced a single fragment of 19th century glass. These ditches probably represent

former field boundaries observed on the 2nd edition Ordnance Survey (OS) 25 inch to the mile series map.

2.5.4 At the southern end of site, ditch group **15025** (= **15025**, **15027**, **15029**, **15053**) clearly post-dated the furrows. The excavated slots into these ditches had an average width of 1.2m and depth of 0.36m and contained fills which varied between mid to light greyish-brown. A moderately abraded pottery sherd from a medieval green glazed jug was recovered along with four sherds of un-abraded 19th century pottery.

2.6 Phase 4: Undated

2.6.1 Several groups of undated features were revealed across the site which included ditches and pits of various sizes.

2.6.2 In the north-eastern corner of the site lay a 10m long section of undated ditch (**15372**=**15374**) that entered the excavation from the north-east. No datable material was recovered from its mid brownish-grey silty clay fills. A further undated ditch (**16074**=**16076**=**16098**=**16115**; (Fig. 10, Section 8030)) on a south-west to north-east alignment truncated Phase 2 enclosure groups **15112** and **16079** in the south-eastern corner of site.

2.6.3 To the west of ditch **15372** lay a scattering of five circular to sub-circular pits (group **15097**; = **15097**, **15099**, **15101**, **15103**, **15106**) that varied between 0.5-1.9m in diameter. Their fills yielded no datable finds and had no discernable function.

2.6.4 A further spread of ten small pits and a posthole (group **15057**; = **15057**, **15384**, **15386**, **15388**, **15390**, **15409**, **15411**, **15413**, **15426**, **15485**) in the central area of the site varied between 0.28-1m in diameter and 0.07-0.18m deep. These features also contained no finds.

2.6.5 At the southern end of the site, ditch group **15069** (= **15069**, **15085**, **15087**, **15297**, **15313**, **15315**, **15319**, **15344**, **15346**, **15428**, **15474**, **15476**, **15478**, **15480**, **15482**, **15484**, **15488**, **15518**, **15520**, **15522**) comprised several undated ditches. All of these ditches were sealed by an accumulation of subsoil up to 1m in thickness which was attributed to the accretion of ploughsoil within the hollow formed by palaeochannel **15588**. These ditches averaged 0.55m in width by 0.15m in depth and contained no finds.

2.6.6 A further 11 undated pits and two postholes were investigated in the southern part of the site. They are considered as group **15059** (= **15059**, **15060**, **15083**, **15317**, **15321**, **15334**, **15336**, **15370**, **15392**, **15399**, **15401**, **15431**, **15490**, **15496**), which were generally circular to sub-circular features in plan and averaged 0.59m in diameter and 0.17m in depth.

3 FACTUAL DATA: ARTEFACTS

3.1 General

3.1.1 All finds have been washed, quantified and bagged. A catalogue of all finds has been entered onto an MS Access database. Total quantities for each material type are listed below. Summaries of the finds assemblages are provided below, with full assessment reports in Appendix B.

Material	Count	Weight (kg)
Metalwork	1 (SF 1501)	-
Slag	20	0.465
Glass	1	-
Flint	10	-
Burnt Flint	1	-
Iron Age pottery	1270	9.847
Medieval and post-medieval pottery	5	0.053
Stone	11	6.619
Burnt Stone	12	4.048
Ceramic Building Material	1	0.028
Fired clay	98	24.220

Table 4: Quantification of finds by material

3.2 Metalwork *by Denis Sami*

3.2.1 The metalwork assemblage consists of a single iron rod (SF 1501), possibly a belt mount, recovered from the primary fill of Phase 2 pit **15152**.

3.3 Slag *by Simon Timberlake*

3.3.1 A total of 219g (seven pieces) of iron furnace slag and 246g (13 pieces) of probable roasted iron were recovered from five Phase 2 features (**15532**, **15019**, **15207**, **16051**, **16065**).

3.4 Glass *by Carole Fletcher*

3.4.1 A single shard of vessel glass (0.006kg) was recovered from Phase 3 ditch **15005**.

3.5 Flint *by Lawrence Billington*

3.5.1 A very small assemblage, consisting of 10 worked flints and a single worked burnt flint was recovered during the excavations. The flint was found in very low densities and probably originates from multiple periods, such as the possible Mesolithic blade found in Phase 2 pit **15019** to the probable Bronze Age core from Phase 2 ditch **15540**. The only retouched tool being a broken oblique arrowhead of Late Neolithic date from ditch **16072**. The condition of the assemblage suggests this material largely or entirely represents residual material caught up in the fills of later features.

3.6 Iron Age pottery *by Carlotta Marchetto*

3.6.1 An assemblage totaling 1270 sherds (9.847kg) of Iron Age pottery was recovered from the excavation. The pottery was recovered from a total of 159 contexts relating to 120 cut features. All the assessed material is handmade and belongs to the Middle/Late Iron Age period (*c.*350BC-AD50). Only seven sherds have been identified as diagnostic rim sherds and the overall the assemblage is in a moderate/poor condition with some abrasion.

3.6.2 Key assemblages from Phase 2 features include **15112** (group **15112**, outer enclosure) which contained 80 sherds (539g) and **15253** (group **15076**, northern inner enclosure) which contained 85 sherds (1038g). Smaller, but still significant assemblages come from pits **15094** (57 sherds 473g), **15152** (50 sherds, 245g) and **15557** (27 sherds, 243g); all of which are part of feature group **15011**.

3.7 Medieval and post-medieval pottery *by Carole Fletcher*

3.7.1 The site produced a small assemblage of post-Roman pottery (five sherds, 0.053kg). One sherd of medieval green glazed jug (*c.*1225-1400) was recovered from Phase 3 ditch **15029** and four sherds of a 19th century bowl was excavated from Phase 3 ditch **15053**.

3.8 Worked and burnt stone *by Simon Timberlake*

3.8.1 A total of 22 pieces (10.66kg) of stone were recovered, of which two pieces (7.61kg) consist of worked stone and 20 pieces (3.05kg) are burnt. The worked stone consists of a partial saddlequern from Phase 2 pit **15293** and a rubbing stone from Phase 2 pit **15096**. Both items are clearly domestic in nature, most probably dating to the Early-Middle Iron Age.

3.9 CBM *by Simon Timberlake*

3.9.1 A single piece of probable Roman brick (27g) was recovered from a furrow (**15001**) and is therefore a residual item.

3.10 Fired clay *by Simon Timberlake*

3.10.1 A total of 98 pieces (24.220kg) of fired clay were recovered and assessed, the vast majority of which (24kg) consist of a very poorly fired coarse shelly clay fabric. This was possibly from the possible small oven in the terminus of Phase 2 ditch **15071**. The remaining fired clay appears to be various types of daub (94g).

4 FACTUAL DATA: ENVIRONMENTAL AND OSTEOLOGICAL EVIDENCE

4.1 General

4.1.1 All finds (human and animal bone) have been washed, quantified and bagged. The catalogue of all finds has been entered onto an MS Access database. A total of 70 bulk samples were taken during the excavation.

Material	Number
Human skeletal remains	3
Faunal remains	539

Table 5: Quantification of ecofacts by material

4.2 Human skeletal remains *by Zoë Uí Choileáin*

4.2.1 Three pieces of human bone were recovered from two contexts. A skull fragment was recovered from pit **15118**, and two skull fragments were excavated from the terminus of ditch **15076**. The condition of the bone is poor and probably not a primary deposit.

4.3 Animal bone by Zoë Uí Choileáin

4.3.1 A total of 539 fragments of countable animal bone were recovered, of these fragments 406 are identifiable to taxon. Fragmentation levels are high with very few bones being complete, the ratio of animal species is similar to that expected of Iron Age occupation, the presence of juvenile horse bones suggests there is the potential that horse rearing was undertaken on site.

4.4 Environmental samples *by Martha Craven*

4.4.1 A total of 71 bulk samples were taken from the site; all samples have been assessed. Preservation on the site is moderate, with identifiable cereal grains (wheat (*Triticum* sp.) and barley (*Hordeum vulgare*)) as well as a variety of weed seeds present in several samples, though in low quantities, not indicative of intense localised activity. The botanical assemblage is similar in composition to other Iron Age sites in the area.

5 STATEMENT OF POTENTIAL

5.1 Stratigraphy

5.1.1 This excavation (within the wider context of ongoing archaeological investigation work on the surrounding Hanwood Park development) presents a good opportunity to investigate an area of Iron Age settlement and the evolution of this landscape in the period that led up to the Roman conquest.

5.1.2 A combination of stratigraphic analysis alongside an interpretation of the spatial distributions of the artefactual and ecofactual assemblages will provide an understanding of the distribution of different activities within this Iron Age settlement. Themes relating to the settlement's longevity, prominence within the surrounding landscape and its eventual abandonment will also be explored.

5.1.3 The excavation produced limited evidence for pre-Iron Age activity, amounting to a few ditches, dated on morphology and spatial/stratigraphic relationships alone. The majority of activity on site was dated to the Middle to Late Iron Age. This activity consisted of a large outer enclosure which continues into plot DC3 to the east, two smaller D-shaped enclosure (all three of which produced large assemblages of pottery), two smaller semi-circular ditches and a smaller area of features in the northern part of the site. Further Iron Age remains include: several enigmatic short, curved ditches; a segmented ditch which probably formed an internal division of the outer enclosure; and a large number of pits and postholes which yielded pottery, burnt and worked stone and animal bone as well as the only metal artefact from the site, a small (55mm) iron rod.

5.1.4 Later ditches of medieval post-medieval date and a regular system of agricultural furrows were also found on the site, as were a number of undated pits and postholes.

5.2 Metalwork

5.2.1 The limited size of the assemblage mean it has no potential to aid local, regional and national research priorities.

5.3 Slag

5.3.1 The limited size of the assemblage mean it has only very limited potential to aid local, regional and national research priorities. However, the potential of the roasted ore items may be heightened when amalgamated with any future finds relating to iron production/working within the wider development.

5.4 Glass

5.4.1 The limited size of the assemblage mean it has no potential to aid local, regional and national research priorities.

5.5 Flint

5.5.1 The limited size of the assemblage mean it has no potential to aid local, regional and national research priorities.

5.6 Iron Age pottery

5.6.1 The pottery from east Kettering is primarily handmade and dates from the Middle to the Later Iron Age, *c.*350-50 BC/AD 50. The ceramic traditions of this period are long-lived, relatively conservative, and can be difficult to closely date on conventional typo-chronological grounds (Brundenell 2012).

5.6.2 The Middle to Later Iron Age assemblage includes several key groups containing partial and complete vessel profiles. The material comprises a moderate number of scored sherds (3% by count), reflecting the geographic position of the site on the periphery of the main Scored Ware-zone distribution (Elsdon 1992). The Later Iron Age assemblage also contains refitting fragments of a globular bowl, possibly dating to the 2nd or 1st centuries BC based on the current evidence (Jackson and Dix 1988; Gwilt 1997, 155), though an earlier origin has been suggested (Knight 2002, 131).

5.6.3 The assemblage can therefore be compared to other assemblages in the region to further explore how ceramics changed across the Middle and Late Iron Age and could help build a more detailed understanding of ceramic development in this part of the landscape.

5.7 Medieval to post medieval pottery

5.7.1 The limited size of the assemblage mean it has no potential to aid local, regional and national research priorities.

5.8 Worked and burnt stone

5.8.1 Both the burnt stone and minor worked stone assemblages suggest a small settlement presence, most probably dating the Early-Middle Iron Age. Both assemblages are probably domestic in nature with context 15125 having produced the rubber and two burnt cobbles which represents a moderately significant deposit of this material. Neither of the worked stones showed much evidence of use wear.

5.9 CBM

5.9.1 The limited size of the assemblage mean it has no potential to aid local, regional and national research priorities.

5.10 Fired Clay

5.10.1 The limited size of the assemblage mean it has no potential to aid local, regional and national research priorities.

5.11 Human skeletal remains

5.11.1 The small size of the assemblage means the human skeletal remains are of little direct potential, as secondary deposition of human bone in pits a ditch terminus is an established facet of Iron Age archaeology, to which this assemblage will add little new data.

5.12 Animal bone

5.12.1 There is a high potential for aging data to be gathered from this site with 143 fragments of bone providing fusion data and 33 fragments providing tooth wear data. Biometric measurements are possible for eight samples, all having the potential to provide withers height estimates. Sex estimation is possible on two fragments.

5.12.2 Overall, this assemblage has moderate to good potential for providing information on dietary and butchery practice in Iron Age Kettering. There is the potential that horse rearing was undertaken on site. The sheep skeleton buried in pit **15419** is however of little interest as it is cut into the top of a furrow, and is therefore probably of relatively modern date.

5.13 Environmental bulk samples

5.13.1 The relatively small quantity of plant remains recovered from these samples is not indicative of deliberate deposition and instead is likely to represent a background scatter of refuse from the surrounding area. The botanical assemblage is typical of Iron Age agriculture in most of lowland Britain, meaning that its potential to aid local, regional and national research priorities is low.

5.14 Overall potential

5.14.1 Based on the potential of this site alone there is moderate potential, key areas for further knowledge could include seasonality of occupation, human-horse interaction as well as evolution of land use. However, the greater potential of this site lies in its relationship to the surrounding landscape and the ability to consider the context of the whole development.

6 UPDATED PROJECT DESIGN

6.1 Revised research aims

6.1.1 The research aims and objectives that were formulated in the WSI (Gilmour 2020) are given in Section 1.5 in this report. When considering the evidence, in conjunction with the relevant regional research framework (Knight *et al* 2012), the previously stated aims remain sufficient.

6.2 Interfaces

6.2.1 This excavation is part of the Phase 1 area of the Hanwood Park development, an evaluation and several other excavations have already been completed in this phase (Table 1; Fig. 2) with more work planned in future, significantly Site DC3 which shares its north-eastern limit with this excavation.

6.2.2 Phase 2 has also recently been evaluated and further mitigation areas there are yet to be defined.

6.2.3 All of the Hanwood Park development areas will be analysed together, as part of this work finds groups will be viewed both individually, per site, and as whole assemblages from across the development. Discussions are ongoing between the client and the NCCAA to determine the requirements for post-excavation analysis and publication.

6.2.4 To the south of the Hanwood Park development, on the southern side of the A14, OA East have also undertaken an excavation at Cranford Business Park (Table 1; Fig. 2).

6.3 Methods statement

Stratigraphy

6.3.1 Contextual, finds and environmental data will be analysed using a MS Access database. A full stratigraphic text will be prepared for all features, based on a group matrix and utilising tabulated data where appropriate. Features will be grouped by association where appropriate and described spatially and stratigraphically. The specialist information will be integrated (utilising the site database, GIS and/or CAD software programmes) to aid dating and complete more detailed phasing and spatial consideration of the site.

Documentary research

6.3.2 Primary and published sources will be consulted, as well as aerial photographs and comparable sites both locally and nationally, in order to place the site within its archaeological context with respect to the revised research aims. This evidence will be collated and where relevant reproduced in the full report.

Metalwork

6.3.3 No further work is required. The metalwork report will be included in the full grey literature report with any updated phasing added.

Slag

6.3.4 A report will be produced and included in the full grey literature report with any updated phasing added.

Glass

6.3.5 No further work is required.

Flint

6.3.6 No further work is required. An appropriately edited version of this report should be included in any full excavation report.

Iron Age pottery

6.3.7 All the prehistoric pottery should be subject to full analysis, focussing on forms, fabrics, method of surface treatment, vessel use, patterns of vessel fragmentation and deposition. The attribute data should be presented in a fully quantified archive pottery report. The main focus of the analysis should be on the assemblage affinities with contemporary groups from the surrounding area.

6.3.8 The assemblage is worthy of publication. Publication should provide a summary version of the archive pottery report, combined with illustrations of a selection of form-assigned vessels.

Medieval and post-medieval pottery

6.3.9 No further work is recommended on this assemblage. If published, this report may be summarised for the publication.

Worked and burnt stone

6.3.10 The report should be considered for updating when full phasing has been completed. Little further work is required at this stage, although the worked stone items (saddlequern and rubbing stone) should be illustrated.

CBM

6.3.11 No further work is required. The report will be included in the full grey literature report with any updated phasing added.

Fired clay

6.3.12 A full interpretation of the current assemblage and possible re-fitting of Fabric K for better determination of its use/purpose; some illustration may then be required.

Human skeletal remains

6.3.13 No further work is required at this stage. However, further assessment will be required when the complete development assemblage is analysed.

Faunal remains

6.3.14 The assemblage will be subject to full analysis and reporting, including tooth wear recording and biometric measurements.

Environmental samples

6.3.15 All samples have been processed so no further work is required. This report will be integrated with the sampling work on the Hanwood Park development and included in the full grey literature report with any updated phasing added.

6.4 Publication and dissemination of results

6.4.1 Following approval of the Post-Excavation Assessment Report by the NCCAA, it will be lodged with the Northamptonshire HER and made available digitally via the OA Library (https://library.thehumanjourney.net/).

6.4.2 It is proposed that, if feasible, the results of the project should be published together with those from previous work undertaken and any further work related to the Hanwood Park development. This would form an important landscape study to the east of Kettering. However, if the timescale of the development becomes very extended, then a smaller scale publication may be more appropriate.

6.4.3 The structure of any publication will depend on whether further excavations are incorporated within it, which is not known at this time.

6.4.4 Initially, a full analysis report will be produced, and the details of associated tasks is given in the resources and programming section below (Section 7; Tables 7 and 8) and relate only to production of this report.

6.5 Retention and disposal of finds and environmental evidence

6.5.1 Specialist recommendations for the retention and/or disposal of each artefactual or ecofactual assemblage are tabulated below.

Artefact Type	Retain/discard
Metalwork	Retain
Slag	Retain
Glass	Discard
Flint	Retain
Iron Age pottery	Retain
Medieval pottery	Discard
Stone	Retain
CBM	Discard
Fired Clay	Retain
Human skeletal remains	Retain
Faunal remains	Retain
Shell	Discard

Table 6: Retention of assemblages by material

6.6 Ownership and archive

6.6.1 The documentary archive will include all on-site records, and this is estimated to produce two boxes of documents. The finds assemblages will be prepared and stored in readiness for deposition.

6.6.2 The digital archive will include copies of the reports, digital photographs, figures, plates and CAD and plans along with a MS access database and GIS data.

6.6.3 OA East will retain copyright of all reports and the documentary and digital archive produced in this project (unless the client has reserved copyright). OA East will maintain the archive to the standards recommended by the Chartered Institute for Archaeologists (CIfA 2014), the Archaeological Archives Forum (Brown 2011) and all standards specified by Northamptonshire Archaeological Resource Centre (NARC). Excavated material and records will be deposited with, and curated by, NARC under the Site Code ENN107988. A digital archive will be deposited with OA Library/ADS. The landowner's permission to donate the finds to this repository has been obtained or will be sought.

7 TEXT RESOURCES AND PROGRAMMING

7.1 Project team structure

7.1.1 The project team is set out in the table below:

Name	Initials	Organisation	Role
Nick Gilmour	NG	OA East	Project management
Elizabeth Popescu	EP	OA East	Post-Excavation and Publication Manager
Tim Lewis	TL	OA East	Project Officer and author
Tom Phillips	TP	OA East	Post-excavation project management
Simon Timberlake	ST	Freelance	Specialist – Slag; Stone (worked & building)
Lawrence Billington	LB	OA East	Specialist – Flint
Carlotta Marchetto	CM	OA East	Specialist – Iron Age pottery
Zoë Uí Choileáin	ZC	OA East	Specialist – Human skeletal remains
Hayley Foster	HF	OA East	Specialist – Faunal remains
Rachel Fosberry	RF	OA East	Specialist – Archaeobotany
Carole Fletcher	CF	OA East	Specialist – Glass; Medieval pottery; post-medieval pottery
Denis Sami	DS	OA East	Specialist – Metalwork
David Brown	DB	OA East	Illustrator
James Fairbairn	JF	OA East	Finds photography
Katharine Hamilton	KH	OA East	Archivist

Table 7: Project team

7.2 Task list and programme

7.2.1 Until it is established when full reporting and/or publication of all excavations for this development will take place no timetabled programme is feasible at this stage.

7.2.2 Below is a task list based on further analysis work on the stratigraphic narrative and the artefact/ecofact assemblages for the production of an archive report on this excavation only.

Task no.	Description	Performed by	Days
1	Project management	NG	2.5
2	Team meetings	NG/TL/TP	0.5
3	Liaison with specialist	NG/TL/TP	0.5
Stage 1	**Stratigraphic Analysis**		
4	Update database and digital plans/sections to reflect any changes	TL	1
5	Finalise site phasing	TL	1
6	Finalise groups	TL	2
7	Add final phasing and groups to database	TL	2
8	Compile overall stratigraphic feature text and site narrative to form the basis of the full/archive report	TL	7

9	Review, collate and standardise results of all final specialist reports and integrate with stratigraphic text and project results	TL	2
10	Relevant research	TL	2
11	Write discussion	TL	2.5
Stage 2	**Artefacts**		
12	Fired clay – full analysis and reporting	ST	1
13	Stone (worked and burnt) – Full analysis and reporting	ST	1
14	Slag – Full analysis and reporting	ST	0.5
15	Iron Age pottery – Full analysis and reporting	CM	3
Stage 3	**Osteological and Environmental**		
16	Faunal remains – Full analysis and reporting	HF	3
17	Human skeletal remains – Full analysis and reporting	ZC	1
18	Environmental bulk samples – updated reporting	RF	1
Stage 4	**Illustration**		
19	Select sections for illustration	TL	0.5
20	Select plates for inclusion	TL	0.5
21	Artefact illustration	DB	3
22	Artefact photography	JF	1
23	Produce site phase plans, sections, plates and other figures	DB	3
Stage 5	**Review**		
24	Internal review	TP	1
25	Final edit/internal approval/QC	EP	1
26	Amending and final edits	TL	1
Stage 6	**Archiving**		
27	Finds marking	KH	5
28	Compile paper archive	KH	1
29	Archive/delete digital photographs	KH	1
30	Compile/check and deposit material archive	KH	3

Table 8: Task list

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APPENDIX A CONTEXT INVENTORY

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
15001	Cut		Furrow	0.96	0.1	3	15001
15002	Fill	15001	Furrow		0.1		
15003	Cut		Furrow	1	0.08	3	15001
15004	Fill	15003	Furrow		0.08		
15005	Cut		Ditch	1.18	0.4	3	15005
15006	Fill	15005	Ditch		0.4		
15007	Cut		Ditch	0.6	0.24	3	15005
15008	Fill	15007	Ditch		0.24		
15009	Cut		Ditch		0.31	3	15005
15010	Fill	15009	Ditch		0.31		
15011	Cut		Pit	0.74	0.4	2	15011
15012	Fill	15011	Pit		0.4		
15013	Cut		Furrow	1	0.05	3	15001
15014	Fill	15013	Furrow		0.05		
15015	Cut		Furrow	1.6	0.08	3	15001
15016	Fill	15015	Furrow		0.08		
15017	Cut		Pit	0.77	0.22	2	15011
15018	Fill	15017	Pit		0.22		
15019	Cut		Pit	0.16	0.3	2	15011
15020	Fill	15019	Pit		0.3		
15021	Cut		Ditch	0.42	0.11	1	15021
15022	Fill	15021	Ditch		0.11		
15023	Cut		Ditch	0.58	0.19	1	15021
15024	Fill	15023	Ditch		0.19		
15025	Cut		Ditch	1.29	0.36	3	15025
15026	Filll	15025	Ditch		0.36		
15027	Cut		Ditch	0.76	0.08	3	15025
15028	Fill	15027	Ditch		0.08		
15029	Cut		Ditch	0.7	0.08	3	15025
15030	Fill	15029	Ditch		0.08		
15031	Cut		Treethrow	0.57	0.29	4	15031
15032	Fill	15031	Treethrow		0.29		
15033	Cut		Treethrow	0.49	0.1	4	15031
15034	Fill	15033	Treethrow		0.1		
15035	Cut		Treethrow	1.4	0.28	4	15031
15036	Fill	15035	Treethrow		0.28		
15037	Cut		Treethrow	0.5	0.1	4	15031

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
15038	Fill	15037	Treethrow		0.1		
15039	Cut		Treethrow	0.1	0.09	4	15031
15040	Fill	15039	Treethrow		0.09		
15041	Cut		Post Hole	0.7	0.44	4	
15042	Fill	15041	Post Hole		0.44		
15043	Cut		Post Hole	0.38	0.28	4	
15044	Fill	15043	Post Hole		0.28		
15045	Cut		Post Hole	0.64	0.27	4	
15046	Fill	15045	Post Hole		0.27		
15047	Cut		Ditch	0.8	0.28	4	15047
15048	Fill	15047	Ditch		0.28		
15049	Cut		Ditch	2.55	1.06	2	15049
15050	Fill	15049	Ditch		0.38		
15051	Fill	15049	Ditch	2.3	0.3		
15052	Fill	15049	Ditch		0.4		
15053	Cut		Ditch	1.66	0.56	3	15025
15054	Fill	15053	Ditch		0.14		
15055	Fill	15053	Ditch		0.3		
15056	Fill	15053	Ditch		0.1		
15057	Cut		Pit	1	0.12	4	15057
15058	Fill	15057	Pit		0.12		
15059	Cut		Pit	0.41	0.32		
15060	Cut		Pit	0.88	0.38	4	15059
15061	Fill	15059	Pit		0.12		
15062	Fill	15059	Pit		0.24		
15063	Fill	15060	Pit		0.18		
15064	Fill	15060	Pit		0.07		
15065	Fill	15060	Pit		0.15		
15066	Fill	15060	Pit		0.14		
15067	Cut		Natural Feature	0.62	0.23	4	
15068	Fill	15067	Natural Feature		0.23		
15069	Cut		Ditch	0.6	0.22	4	15069
15070	Fill	15069	Ditch		0.22		
15071	Cut		Ring-ditch	0.8	0.2	2	15071
15072	Fill	15071	Ring-ditch		0.2		
15073	Cut		Ring-ditch	0.4	0.27	2	15073
15074	Fill	15073	Ring-ditch		0.07		
15075	Fill	15073	Ring-ditch		0.2		

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
15076	Cut		Ditch		0.46	2	15076
15077	Fill	15076	Ditch		0.35		
15078	Fill	15076	Ditch		0.16		
15079	Cut		Ditch	1	0.8	2	15076
15080	Fill	15079	Ditch	0.4	0.15		
15081	Fill	15079	Ditch	0.8	0.4		
15082	Fill	15079	Ditch	1	0.3		
15083	Cut		Pit	0.53	0.17	4	15059
15084	Fill	15083	Pit		0.17		
15085	Cut		Ditch	0.54	0.24	4	15069
15086	Fill	15085	Ditch		0.24		
15087	Cut		Ditch	0.93	0.23	4	15069
15088	Fill	15087	Ditch		0.23		
15089	Cut		Treethrow	1.12	0.2	4	15031
15090	Fill	15089	Treethrow		0.16		
15091	Fill	15089	Treethrow		0.12		
15092	Cut		Pit	0.79	0.14	2	15011
15093	Fill	15092	Pit		0.14		
15094	Cut		Pit	1.5	0.36	2	15011
15095	Fill	15094	Pit		0.36		
15096	Cut		Pit	0.7	0.32	2	
15097	Cut		Pit	0.6	0.25	4	15097
15098	Fill	15097	Pit		0.25		
15099	Cut		Pit	0.8	0.2	4	15097
15100	Fill	15099	Pit		0.2		
15101	Cut		Pit	0.7	0.15	4	15097
15102	Fill	15101	Pit		0.15		
15103	Cut		Pit	0.6	0.36	4	15097
15104	Fill	15103	Pit		0.24		
15105	Fill	15103	Pit		0.12		
15106	Cut		Pit	0.8	0.3	4	15097
15107	Fill	15106	Pit		0.3		
15108	Cut		Ring-ditch	0.7	0.29	2	15073
15109	Fill	15108	Ring-ditch		0.29		
15110	Cut		Ring-ditch	1.7	0.2	2	15071
15111	Fill	15110	Ring-ditch		0.2		
15112	Cut		Ditch	2.5	0.82	2	15112
15113	Fill	15112	Ditch		0.28		
15114	Fill	15112	Ditch		0.24		
15115	Fill	15112	Ditch		0.46		

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
15116	Fill	15112	Ditch		0.4		
15117	Cut		Ditch	0.74	0.16	2	15112
15118	Cut		Pit	2.1	0.32	2	15011
15119	Fill	15118	Pit	1.9	0.32		
15120	Fill	15117	Ditch		0.16		
15121	Cut		Ditch	1.44	0.54	2	15112
15122	Fill	15121	Ditch		0.54		
15123	Fill	15096	Pit		0.23		
15124	Fill	15096	Pit		0.16		
15125	Fill	15096	Pit		0.17		
15126	Fill	15096	Pit		0.11		
15127	Cut		Pit	0.48	0.14	2	
15128	Fill	15127	Pit		0.04		
15129	Fill	15127	Pit		0.1		
15130	Cut		Pit	0.52	0.09	2	15011
15131	Fill	15130	Pit		0.07		
15132	Fill	15133	Ditch	0.34	0.12		
15133	Fill	15132	Ditch	0.34	0.12		
15134	Cut		Ditch		0.54	2	15112
15135	Fill	15134	Ditch		0.54		
15136	Fill	15130	Pit		0.04		
15137	Cut		Pit	0.66	0.14	2	15011
15138	Fill	15137	Pit		0.05		
15139	Fill	15137	Pit		0.09		
15140	Cut		Ditch	0.5	0.36	2	
15141	Fill	15140	Ditch		0.36		
15142	Cut		Ditch	0.44	0.28	2	
15143	Fill	15142	Ditch		0.28		
15144	Cut		Ditch	0.3	0.14	1	15144
15145	Fill	15144	Ditch		0.06		
15146	Fill	15144	Ditch		0.08		
15147	Cut		Ditch	0.3	0.15	1	15144
15148	Fill	15147	Ditch		0.15		
15149	Cut		Ditch	0.5	0.2	1	15144
15150	Fill	15149	Ditch		0.06		
15151	Fill	15149	Ditch		0.14		
15152	Cut		Pit	1.16	0.54	2	15011
15153	Fill	15152	Pit		0.06		
15154	Fill	15152	Pit		0.07		
15155	Fill	15152	Pit		0.18		

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
15156	Fill	15152	Pit		0.12		
15157	Fill	15152	Pit		0.08		
15158	Cut		Ditch	0.5	0.18	2	
15159	Fill	15158	Ditch		0.18		
15160	Cut		Ditch	0.5	0.2	2	
15161	Fill	15160	Ditch		0.2		
15162	Cut		Ditch	0.6	0.2	2	15112
15163	Fill	15162	Ditch		0.2		
15164	Cut		Ditch	0.66	0.3	2	
15165	Fill	15164	Ditch		0.3		
15166	Cut		Pit	0.49	0.24	2	15011
15167	Fill	15166	Pit		0.21		
15168	Cut		Post Hole	0.3	0.13	2	15168
15169	Fill	15168	Post Hole		0.13		
15170	Cut		Pit	0.57	0.16	2	15011
15171	Fill	15170	Pit		0.04		
15172	Fill	15170	Pit		0.14		
15173	Fill	15166	Pit		0.03		
15174	Cut		Pit	1.9	0.52	2	
15175	Fill	15174	Pit		0.25		
15176	Fill	15174	Pit		0.3		
15177	Cut		Post Hole	0.54	0.32	2	15168
15178	Fill	15177	Post Hole		0.2		
15179	Fill	15177	Pit		0.24		
15180	Cut		Ditch	2	1	2	15112
15181	Fill	15180	Ditch		0.5		
15182	Fill	15180	Ditch	1.6	0.3		
15183	Cut		Ditch	1	0.55	2	15112
15184	Fill	15183	Ditch	0.8	0.4		
15185	Fill	15180	Ditch	2.3	0.25		
15186	Layer		Natural Feature	1	0.16		
15187	Cut		Pit	0.48	0.13	2	15011
15188	Fill	15187	Pit		0.13		
15189	Cut		Pit	0.62	0.36	2	15189
15190	Fill	15189	Pit		0.36		
15191	Cut		Pit	0.66	0.25	2	15189
15192	Fill	15191	Pit		0.25		
15193	Cut		Pit	0.53	0.04	2	15011
15194	Fill	15193	Pit		0.04		

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
15195	Cut		Pit	0.62	0.06	2	15011
15196	Fill	15195	Pit		0.06		
15197	Cut		Pit	0.82	0.16	2	15011
15198	Fill	15197	Pit		0.16		
15199	Cut		Pit	0.42	0.12	2	15011
15200	Fill	15199	Pit		0.12		
15201	Cut		Pit	0.46	0.21	2	15011
15202	Fill	15201	Pit		0.21		
15203	Cut		Ditch	2.9	0.9	2	15112
15204	Cut		Pit	2	0.48	2	15076
15205	Fill	15204	Pit		0.3		
15206	Fill	15204	Pit		0.2		
15207	Cut		Ditch	0.6	0.2	2	15071
15208	Fill	15207	Ditch		0.2		
15209	Cut		Pit	0.58	0.11	2	15011
15210	Fill	15209	Pit		0.11		
15211	Cut		Pit	0.64	0.18	2	15011
15212	Fill	15211	Pit		0.09		
15213	Fill	15211	Pit		0.11		
15214	Cut		Pit	0.6	0.09	2	15011
15215	Fill	15214	Pit		0.09		
15216	Cut		Pit	0.58	0.14	2	15011
15217	Fill	15216	Pit		0.16		
15218	Cut		Post Hole	0.34	0.08	2	15168
15219	Fill	15218	Post Hole		0.08		
15220	Cut		Ring-ditch	0.5	0.2	2	15071
15221	Fill	15220	Ring-ditch		0.2		
15222	Cut		Furrow	1.8	0.18	4	15001
15223	Fill	15222	Furrow		0.18		
15224	Cut		Ditch	0.9	0.28	2	15112
15225	Fill	15224	Ditch		0.1		
15226	Fill	15224	Ditch		0.26		
15227	Cut		Pit	0.8	0.21	4	15001
15228	Fill	15227	Pit		0.21		
15229	Fill	15227	Pit		0.18		
15230	Fill	15203	Ditch		0.14		
15231	Fill	15203	Ditch		0.44		
15232	Fill	15203	Ditch		0.16		
15233	Fill	15203	Ditch		0.28		
15234	Fill	15203	Ditch		0.2		

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
15235	Cut		Pit	0.8	0.3	2	15011
15236	Fill	15235	Pit		0.2		
15237	Cut		Pit	1.06	0.46	2	15011
15238	Cut		Pit	1.92	0.11	2	15011
15239	Cut		Pit	2.12	0.49	4	
15240	Cut		Pit	0.76	0.18	2	15011
15241	Fill	15240	Pit		0.18		
15242	Cut		Treethrow	0.56	0.14	4	15031
15243	Fill	15242	Treethrow		0.14		
15244	Cut		Post Hole	0.5	0.12	2	15168
15245	Fill	15244	Post Hole		0.12		
15246	Cut		Pit	0.5	0.14	2	15011
15247	Fill	15246	Pit		0.14		
15248	Fill	15237	Pit		0.24		
15249	Fill	15237	Pit		0.16		
15250	Fill	15238	Pit		0.11		
15251	Fill	15239	Pit		0.3		
15252	Fill	15239	Pit		0.2		
15253	Cut		Ditch	0.9	0.56	2	15076
15254	Fill	15253	Ditch		0.56		
15255	Cut		Furrow	0.9	0.16	4	15001
15256	Fill	15255	Furrow		0.16		
15257	Fill	15233	Pit		0.1		
15258	Cut		Pit	1.1	0.29	2	
15259	Fill	15258	Pit		0.14		
15260	Fill	15258	Pit		0.14		
15261	Cut		Pit	1.42	0.3	2	15011
15262	Fill	15261	Pit		0.12		
15263	Fill	15261	Pit		0.18		
15264	Cut		Ditch	0.6	0.14	2	15189
15265	Fill	15264	Ditch		0.14		
15266	Cut		Ditch	0.4	0.04	2	15266
15267	Fill	15266	Ditch		0.04		
15268	Cut		Ditch	0.38	0.05	2	15266
15269	Fill	15268	Ditch		0.05		
15270	Cut		Ditch	0.7	0.16	2	15189
15271	Fill	15270	Ditch		0.16		
15272	Cut		Ditch	0.4	0.16	2	15189
15273	Fill	15272	Ditch		0.16		
15274	Cut		Pit	0.5	0.07	2	15011

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
15275	Fill	15274	Pit		0.07		
15276	Cut		Ditch	0.66	0.2	2	15189
15277	Fill	15276	Ditch		0.2		
15278	Cut		Ditch	0.12	0.05	2	15189
15279	Fill	15278	Ditch		0.05		
15280	Cut		Ditch		0.12	2	15189
15281	Fill	15280	Ditch		0.12		
15282	Cut		Pit	0.4	0.08	2	15011
15283	Fill	15282	Pit		0.08		
15284	Cut		Pit	0.42	0.07	2	15011
15285	Fill	15284	Pit		0.07		
15286	Cut		Pit	1.11	0.2	2	15011
15287	Fill	15286	Pit		0.1		
15288	Fill	15286	Pit		0.11		
15289	Cut		Pit	0.55	0.36	2	15011
15290	Fill	15289	Pit		0.08		
15291	Fill	15289	Pit		0.2		
15292	Fill	15289	Pit		0.1		
15293	Cut		Pit	0.9	0.37	2	15011
15294	Fill	15293	Pit		0.12		
15295	Fill	15293	Pit		0.14		
15296	Fill	15294	Pit		0.1		
15297	Cut		Ditch	0.95	0.64	2	15096
15298	Fill	15297	Ditch		0.24		
15299	Fill	15297	Ditch		0.4		
15300	Cut		Ditch	0.4	0.14	2	15189
15301	Fill	15300	Ditch		0.04		
15302	Fill	15300	Ditch		0.1		
15303	Cut		Post Hole	0.29	0.07	2	15168
15304	Fill	15303	Post Hole		0.07		
15305	Cut		Post Hole	0.35	0.08	2	15168
15306	Fill	15305	Post Hole		0.08		
15307	Cut		Ditch	0.24	0.16	4	15001
15308	Fill	15307	Ditch		0.16		
15309	Cut		Ditch	0.58	0.14	2	15189
15310	Fill	15309	Ditch		0.14		
15311	Cut		Ditch	0.84	0.3	2	15049
15312	Fill	15311	Ditch		0.3		
15313	Cut		Ditch	0.7	0.16	4	15069
15314	Fill	15315	Ditch		0.16		

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
15315	Cut		Ditch	0.46	0.16	4	15069
15316	Fill	15315	Ditch		0.16		
15317	Cut		Post Hole	0.28	0.1	4	15059
15318	Fill	15317	Post Hole		0.1		
15319	Cut		Gully	0.54	0.08	4	15069
15320	Fill	15319	Gully		0.08		
15321	Cut		Pit	0.94	0.2	4	15059
15322	Fill	15321	Pit		0.16		
15323	Fill	15203	Pit		0.05		
15324	Cut		Ditch	0.84	0.68	2	15112
15325	Fill	15324	Ditch		0.32		
15326	Fill	15324	Ditch		0.4		
15327	Cut		Ditch	0.82	0.88	2	15049
15328	Fill	15327	Ditch		0.38		
15329	Fill	15324	Ditch		0.3		
15330	Cut		Ditch	0.4	0.2	3	15047
15331	Fill	15330	Ditch		0.2		
15332	Cut		Ditch	0.5	0.1	3	15047
15333	Fill	15332	Ditch		0.1		
15334	Cut		Pit	0.5	0.2	4	15059
15335	Fill	15334	Pit		0.2		
15336	Cut		Pit	0.74	0.28	4	15059
15337	Fill	15336	Pit		0.28		
15338	Cut		Ditch	0.7	0.19	3	15047
15339	Fill	15338	Ditch		0.19		
15340	Cut		Ditch	0.66	0.15	3	15047
15341	Fill	15340	Ditch		0.15		
15342	Cut		Ditch	0.2	0.26	3	15005
15343	Fill	15342	Ditch		0.26		
15344	Cut		Ditch	0.48	0.08	4	15069
15345	Fill	15344	Ditch		0.06		
15346	Cut		Ditch	0.56	0.08	4	15069
15347	Fill	15346	Ditch		0.08		
15348	Cut		Ditch	0.5	0.22	2	15189
15349	Fill	15349	Ditch		0.22		
15350	Cut		Ditch	2.3	0.47	2	15112
15351	Fill	15350	Ditch		0.17		
15352	Fill	15350	Ditch		0.3		
15353	Cut		Ditch	2	1	2	15049
15354	Fill	15353	Ditch	1.2	0.3		

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
15355	Fill	15353	Ditch	2	0.4		
15356	Fill	15353	Ditch	1.4	0.32		
15357	Fill	15353	Ditch	2.3	0.2		
15358	Cut		Post Hole	0.4	0.45	2	
15359	Fill	15358	Post Hole		0.45		
15360	Fill	15358	Post Hole		0.4		
15361	Fill	15358	Post Hole		0.1		
15362	Cut		Post Hole	0.8	0.7	2	
15363	Fill	15362	Post Hole		0.7		
15364	Cut		Surface (External)	3	0.15	2	
15365	Fill	15364	Surface (External)	3	0.15		
15366	Cut		Natural Feature	0.48	0.06	4	15031
15367	Fill	15366	Natural Feature		0.06		
15368	Cut		Natural Feature	0.5	0.16	4	15031
15369	Fill	15368	Natural Feature		0.16		
15370	Cut		Pit	0.49	0.2	4	15059
15371	Fill	15370	Pit		0.2		
15372	Cut		Ditch	0.4	0.16	4	15372
15373	Fill	15373	Ditch		0.16		
15374	Cut		Ditch	0.44	0.18	4	15372
15375	Fill	15374	Ditch		0.18		
15376	Cut		Ditch	0.4	0.09	2	15266
15377	Fill	15376	Ditch		0.09		
15378	Cut		Ditch	0.4	0.06	2	15266
15379	Fill	15378	Ditch		0.06		
15380	Cut		Ditch	0.4	0.1	2	15266
15381	Fill	15380	Ditch		0.1		
15382	Cut		Pit	1	0.1	2	15011
15383	Fill	15382	Pit		0.1		
15384	Cut		Ditch	0.4	0.17	4	15057
15385	Fill	15384	Post Hole		0.17		
15386	Cut		Post Hole	0.4	0.15	4	15057
15387	Fill	15386	Post Hole		0.15		
15388	Cut		Post Hole	0.28	0.09	4	15057
15389	Fill	15388	Post Hole		0.09		

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
15390	Cut		Pit	0.57	0.18	4	15057
15391	Fill	15390	Pit		0.18		
15392	Cut		Pit	0.5	0.06	4	15059
15393	Fill	15392	Pit		0.06		
15394	Cut		Treethrow	0.5	0.05	4	15031
15395	Fill	15394	Treethrow		0.05		
15396	Cut		Treethrow	0.64	0.24	4	15031
15397	Fill	15396	Treethrow		0.04		
15398	Fill	15398	Treethrow		0.2		
15399	Cut		Pit	0.3	0.05	4	15059
15400	Fill	15399	Pit		0.05		
15401	Cut		Pit	0.4	0.08	4	15059
15402	Fill	15401	Pit		0.8		
15403	Cut		Post Hole	0.3	0.23	2	15168
15404	Fill	15403	Post Hole		0.23		
15405	Cut		Post Hole	0.32	0.27	2	15168
15406	Fill	15405	Post Hole		0.27		
15407	Cut		Ditch	0.4	0.07	2	15266
15408	Fill	15407	Ditch		0.07		
15409	Cut		Pit	0.6	0.17	4	15057
15410	Fill	15409	Pit		0.17		
15411	Cut		Pit	0.7	0.1	4	15057
15412	Fill	15411	Pit		0.1		
15413	Cut		Pit	0.7	0.1	4	15057
15414	Fill	15413	Pit		0.1		
15415	Cut		Ditch	0.85	0.26	2	15076
15416	Fill	15415	Ditch		0.26		
15417	Cut		Pit	1.44	0.2	2	15011
15418	Fill	15417	Pit		0.2		
15419	Cut		Pit	1.11	0.18	3	
15420	Fill	15419	Pit	0.47	0.07		
15421	Fill	15419	Pit	1.11	0.18		
15422	Cut		Post Hole	0.44	0.27	2	15168
15423	Fill	15422	Post Hole		0.27		
15424	Cut		Post Hole	0.3	0.18	2	15168
15425	Fill	15424	Post Hole		0.18		
15426	Cut		Pit	0.5	0.07	4	15057
15427	Fill	15426	Ditch		0.07		
15428	Cut		Ditch	0.88	0.38	4	15069
15429	Fill	15428	Ditch		0.26		

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
15430	Fill	15428	Ditch		0.12		
15431	Cut		Pit	0.88	0.17	4	15059
15432	Fill	15431	Pit		0.17		
15433	Cut		Pit	0.96	0.18	2	15011
15434	Fill	15433	Pit		0.18		
15435	Cut		Ditch	0.22	0.12	2	15266
15436	Fill	15435	Ditch		0.12		
15437	Cut		Ditch	0.32	0.12	2	
15438	Fill	15437	Ditch		0.12		
15439	Cut		Ditch	0.62	0.12	2	15266
15440	Fill	15439	Ditch		0.12		
15441	Cut		Pit	1	0.07	2	15011
15442	Fill	15441	Pit		0.07		
15443	Cut		Pit	0.6	0.14	2	15011
15444	Fill	15443	Pit		0.14		
15445	Cut		Pit	0.6	0.14	2	15011
15446	Fill	15445	Pit		0.14		
15447	Cut		Post Hole	0.3	0.18	4	
15448	Fill	15447	Post Hole		0.18		
15449	Cut		Pit	1.1	0.22	4	
15450	Fill	15449	Pit		0.22		
15451	Cut		Ditch	0.34	0.16	1	15144
15452	Fill	15451	Ditch		0.16		
15453	Cut		Pit	0.72	0.39	4	
15454	Fill	15453	Pit		0.39		
15455	Cut		Pit	0.5	0.22	3	
15456	Fill	15455	Pit		0.22		
15457	Cut		Pit	0.4	0.17	3	
15458	Fill	15457	Pit		0.17		
15459	Cut		Ditch	0.8	0.22	3	15005
15460	Fill	15459	Ditch		0.22		
15461	Cut		Ditch	0.4	0.07	2	15266
15462	Fill	15461	Ditch		0.07		
15463	Cut		Ditch	0.58	0.07	2	15266
15464	Fill	15463	Ditch		0.07		
15465	Cut		Treethrow	0.74	0.12	4	
15466	Fill	15465	Treethrow		0.12		
15467	Cut		Pit	1.1	0.14	4	
15468	Fill	15467	Pit		0.14		
15469	Cut		Ditch	2.7	0.34	2	15112

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
15470	Fill	15469	Ditch	0.3	0.14		
15471	Fill	15469	Ditch	0.9	0.2		
15472	Cut		Ditch	1.1	0.1	2	
15473	Fill	15472	Ditch		0.1		
15474	Cut		Ditch	0.58	0.18	4	15069
15475	Fill	15474	Ditch		0.18		
15476	Cut		Ditch	0.62	0.1	4	15069
15477	filol	15476	Ditch		0.1		
15478	Cut		Ditch	0.33	0.08	4	15069
15479	Fill	15478	Ditch		0.08		
15480	Cut		Ditch	0.36	0.07	4	15069
15481	Fill	15480	Ditch		0.07		
15482	Cut		Ditch	0.3	0.09	4	15069
15483	Fill	15482	Ditch		0.09		
15484	Cut		Ditch	0.76	0.12	4	15069
15485	Cut		Post Hole	0.32	0.1	4	15057
15486	Fill	15485	Post Hole		0.1		
15487	Fill	15484	Ditch		0.12		
15488	Cut		Ditch	0.6	0.17	4	15069
15489	Fill	15488	Ditch		0.17		
15490	Cut		Post Hole	0.37	0.11	4	15059
15491	Fill	15490	Post Hole		0.11		
15492	Cut		Treethrow	1.44	0.14	4	15031
15493	Fill	15492	Treethrow		0.14		
15494	Cut		Treethrow	0.58	0.08	4	15031
15495	Fill	15494	Treethrow		0.08		
15496	Cut		Pit	0.46	0.26	4	15059
15497	Fill	15496	Pit		0.03		
15498	Fill	15496	Pit		0.24		
15499	Cut		Ditch	1.34	0.5	2	15076
15500	Fill	15499	Ditch		0.14		
15501	Fill	15499	Ditch		0.36		
15502	Cut		Ditch	2.7	0.47	2	15112
15503	Fill	15502	Ditch		0.37		
15504	Fill	15502	Ditch		0.1		
15505	Cut		Pit	0.9	0.17	2	
15506	Fill	15505	Pit		0.17		
15507	Cut		Ditch	0.4	0.2	2	15076
15508	Fill	15507	Ditch		0.2		
15509	Cut		Ditch	0.28	0.2	2	15071

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
15510	Fill	15509	Ditch		0.2		
15511	Fill	15327	Ditch		0.26		
15512	Cut		Ditch	0.2	0.07	2	15073
15513	Fill	15512	Ditch		0.07		
15514	Cut		Pit	1.5	0.5	2	
15515	Fill	15514	Pit		0.08		
15516	Fill	15514	Pit		0.16		
15517	Fill	15514	Pit		0.26		
15518	Cut		Gully	0.32	0.08	4	15069
15519	Fill	15518	Gully		0.08		
15520	Cut		Ditch	0.54	0.12	4	15069
15521	Fill	15520	Ditch		0.12		
15522	Cut		Ditch	0.51	0.15	4	15069
15523	Fill	15522	Ditch		0.15		
15524	Cut		Ditch	0.4	0.15	2	15112
15525	Fill	15524	Ditch		0.15		
15526	Cut		Ditch	2.3	0.72	2	15112
15527	Fill	15526	Ditch		0.06		
15528	Fill	15526	Ditch		0.16		
15529	Fill	15526	Ditch		0.42		
15530	Cut		Pit	0.49	0.09	2	
15531	Fill	15530	Pit		0.09		
15532	Cut		Pit	0.7	0.65	2	
15533	Fill	15532	Pit		0.65		
15534	Cut		Pit	1.4	0.44	2	
15535	Fill	15534	Pit		0.44		
15536	Cut		Ditch	2	1.22	2	15049
15537	Fill	15536	Ditch	1.5	0.5		
15538	Fill	15536	Ditch	2	0.4		
15539	Fill	15536	Ditch	1.7	0.34		
15540	Cut		Ditch	1	0.7	2	
15541	Fill	15540	Ditch		0.7		
15542	Cut		Stake Hole	0.22	0.24	2	
15543	Fill	15542	Stake Hole		0.24		
15544	Cut		Post Hole	0.42	0.25	2	
15545	Fill	15544	Post Hole		0.25		
15546	Cut		Ditch	1.3	1.16	2	15049
15547	Fill	15546	Ditch		0.24		
15548	Fill	15546	Ditch		0.28		
15549	Fill	15546	Ditch		0.64		

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
15550	Cut		Ditch	0.6	0.2	3	15047
15551	Fill	15550	Ditch		0.2		
15552	Fill	15526	Ditch		0.14		
15553	Cut		Ditch	1.3	0.32	2	15112
15554	Fill	15553	Ditch		0.12		
15555	Fill	15553	Ditch		0.2		
15556	Cut		Ditch	1.04	0.56	2	
15557	Cut		Pit	1.12	0.54	2	
15558	Cut		Ditch	0.28	0.22	2	15073
15559	Cut		Ditch	2.1	0.54	2	
15560	Cut		Ditch	0.5	0.2	2	
15561	Fill	15556	Ditch		0.12		
15562	Fill	15556	Ditch		0.36		
15563	Fill	15556	Ditch		0.21		
15564	Fill	15557	Pit		0.32		
15565	Fill	15557	Pit		0.22		
15566	Fill	15558	Ditch		0.22		
15567	Fill	15559	Ditch		0.12		
15568	Fill	15559	Ditch		0.1		
15569	Fill	15559	Ditch		0.32		
15570	Fill	15559	Ditch		0.34		
15571	Fill	15560	Ditch		0.2		
15572	Cut		Ditch		0.35	2	
15573	Fill	15572	Ditch		0.35		
15574	Cut		Ditch	0.6	0.28	1	15144
15575	Fill	15574	Ditch		0.28		
15576	Cut		Post Hole	0.4	0.08	2	
15577	Fill	15576	Pit		0.08		
15578	Cut		Stake Hole	0.36	0.2	2	
15579	Fill	15578	Stake Hole		0.2		
15580	Cut		Stake Hole	0.26	0.21	2	
15581	Fill	15580	Stake Hole		0.21		
15582	Cut		Ditch	0.42	0.16	2	15189
15583	Fill	15582	Ditch		0.16		
15584	Cut		Ditch	0.47	0.1	2	15189
15585	Fill	15584	Ditch		0.1		
15586	Cut		Ditch	0.44	0.06	2	15189
15587	Fill	15586	Ditch		0.06		
15588	Deposit		Natural Feature	2.5	0.44		

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
15589	Cut		Ditch	1.6	0.4	1	
15590	Fill	15589	Ditch	1.3	0.2		
15591	Fill	15207	Ditch		0.2		
15592	Fill	15207	Ditch		0.2		
15593	Cut		Ditch	0.6	0.2	2	
15594	Fill	15593	Ditch		0.2		
15595	Cut		Ditch	-	0.52	2	
15596	Fill	15595	Ditch		0.2		
15597	Fill	15595	Ditch		0.34		
15598	Cut		Pit	0.4	0.22	2	
15599	Fill	15598	Pit		0.12		
15600	Fill	15598	Pit		0.2		
15601	Cut		Ditch	1	0.54	2	
15602	Fill	15595	Pit		0.04		
15603	Fill	15595	Pit		0.05		
15604	Fill	15595	Pit		0.12		
15605	Fill	15601	Ditch		0.06		
15606	Cut		Ditch	1.66	0.58	2	
15607	Fill	15606	Ditch		0.12		
15608	Fill	15606	Ditch		0.24		
15609	Fill	15606	Ditch		0.37		
15610	Fill	15606	Ditch		0.14		
15611	Cut		Ditch	1.24	0.54	2	
15612	Fill	15611	Ditch		0.1		
15613	Fill	15611	Ditch		0.37		
15614	Fill	15611	Ditch		0.16		
15615	Cut		Ditch	1.02	0.5	3	
15616	Fill	15616	Ditch		0.17		
15617	Fill	15615	Ditch		0.33		
15618	Cut		Ditch	0.8	0.3	1	15144
15619	Fill	15618	Ditch		0.1		
15620	Fill	15618	Ditch		0.2		
15621	Cut		Ditch	1.1	0.7	2	15112
15622	Fill	15621	Ditch	2.1	0.45		
15623	Fill	15621	Ditch	2.2	0.6		
15624	Cut		Ditch	1.1	0.6	2	15112
15625	Fill	15624	Ditch	0.5	0.4		
15626	Fill	15624	Ditch	1.1	0.42		
15627	Cut		Ditch	0.5	0.65	2	15112
15628	Fill	15627	Ditch		0.45		

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
15629	Cut		Ditch	0.6	0.7	2	15112
15630	Fill	15629	Ditch		0.7		
15631	Cut		Ditch	0.55	0.24	2	15112
15632	Fill	15631	Ditch		0.24		
15633	Cut		Ditch	0.86	0.4	3	
15634	Fill	15633	Ditch		0.1		
15635	Fill	15631	Ditch		0.3		
15636	Cut		Ditch	2.28	1.04	2	15049
15637	Fill	15588	Natural Feature	2	0.12		
15638	Fill	15588	Deposit		0.38		
15639	Fill	15601	Ditch		0.11		
15640	Fill	15601	Ditch		0.42		
15641	Cut		Pit	0.96	0.16	2	
15642	Fill	15641	Pit		0.16		
15643	Cut		Ditch	0.55	0.22	2	15076
15644	Fill	15643	Ditch		0.22		
15645	Cut		Ditch	1.2	0.46	2	15076
15646	Fill	15645	Ditch		0.36		
15647	Fill	15645	Ditch		0.16		
15648	Cut		Ditch	1.12	1.64	2	15076
15649	Fill	15648	Ditch		0.4		
15650	Fill	15648	Ditch		0.22		
15651	Fill	15648	Ditch		0.22		
15652	Cut		Ditch	1.2	1.04	2	15049
15653	Fill	15652	Ditch		1.04		
15654	Fill	15652	Ditch		0.8		
15655	Cut		Ditch	1.1	1.2	2	15112
15656	Fill		Ditch		1.2		
15657	Cut		Gully		0.8	2	
15658	Fill	15657	Gully		0.8		
15659	Cut		Gully		0.66	2	
15660	Fill	15659	Gully		0.66		
15661	Fill	15655	Ditch		0.88		
15662	Fill	15655	Ditch		0.8		
15663	Cut		Ditch	1	0.26	2	
15664	Fill	15663	Ditch		0.26		
15665	Cut		Ditch	0.9	0.4	2	
15666	Fill	15665	Ditch		0.4		
15667	Cut		Ditch	0.7	0.24	2	

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
15668	Fill	15667	Ditch		0.24		
15669	Cut		Ditch	1.3	0.48	2	
15670	Fill	15669	Ditch		0.48		
15671	Cut		Pit	0.4	0.15	2	
15672	Fill	15671	Pit		0.15		
15673	Fill	15636	Ditch	0.46	0.26		
15674	Fill	15636	Ditch	0.41	0.15		
15675	Fill	15636	Ditch		0.05		
15676	Fill	15636	Ditch	1.11	0.2		
15677	Fill	15636	Ditch	2.08	0.48		
15678	Fill	15636	Ditch	1.65	0.39		
15679	Cut		Ditch	0.8	0.87	2	15049
15680	Fill	15679	Ditch	0.78	0.15		
15681	Fill	15679	Ditch	0.65	0.17		
15682	Cut		Ditch	0.5	0.21	2	15073
15683	Fill	15682	Ditch		0.21		
15684	Cut		Ditch	0.36	0.12	2	15071
15685	Fill	15684	Ditch		0.12		
15686	Cut		Pit	0.72	0.18	2	15011
15687	Fill	15686	Pit		0.18		
15688	Cut		Ditch	0.6	0.38	2	15073
15689	Fill	15688	Ditch		0.38		
15690	Cut		Gully	0.61	0.15	2	15189
15691	Fill	15690	Gully		0.15		
15692	Cut		Ditch	1	0.2	3	15005
15693	Fill	15692	Ditch		0.2		
15694	Cut		Ditch	2.1	0.31	2	15112
15695	Fill	15694	Ditch		0.31		
15696	Fill	15694	Ditch		0.34		
15697	Cut		Pit	0.58	0.12	2	
15698	Fill	15697	Pit		0.12		
15699	Cut		Ditch	0.9	0.54	2	15076
15700	Fill	15699	Ditch		0.34		
15701	Fill	15699	Ditch		0.06		
15702	Fill	15699	Ditch		0.13		
15703	Cut		Ditch	0.94	0.72	2	15076
15704	Fill	15703	Ditch		0.24		
15705	Fill	15703	Ditch		0.18		
15706	Fill	15703	Ditch		0.26		
15707	Cut		Ditch	2.21	0.52	2	15076

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
15708	Fill	15707	Ditch		0.1		
15709	Fill	15707	Ditch		0.15		
15710	Fill	15707	Ditch		0.46		
15711	Cut		Ditch	2.3	0.95	2	15112
15712	Fill	15711	Ditch	0.8	0.22		
15713	Fill	15711	Ditch	1.2	0.26		
15714	Cut		Pit	0.2	0.3	2	15011
15715	Fill	15711	Ditch	2.5	0.25		
15716	Fill	15711	Ditch	2	0.22		
15717	Cut		Pit	0.9	0.3	2	15011
15718	Fill	15717	Pit		0.3		
15719	Cut		Ditch		0.18	2	15071
15720	Fill	15719	Ditch	0.64	0.18		
15721	Cut		Pit	1.3	0.5	2	
15722	Fill	15721	Pit		0.5		
15723	Cut		Ditch	0.86	0.8	2	15112
15724	Fill	15723	Ditch		0.8		
15725	Cut		Ring-ditch	0.42	0.18	2	15071
15726	Fill	15725	Ring-ditch		0.18		
15727	Cut		Pit	0.74	0.17	2	15011
15728	Fill	15727	Pit		0.17		
15729	Cut		Ring-ditch	0.53	0.2	2	15071
15730	Fill	15729	Ring-ditch		0.2		
15731	Cut		Ring-ditch	0.45	0.26	2	15073
15732	Fill	15731	Ring-ditch		0.26		
15733	Fill	15589	Ditch	1.6	0.2		
15734	Cut		Ring-ditch	0.49	0.14	2	15071
15735	Fill	15734	Ring-ditch		0.14		
16033	cut	0	ditch	1.3	0.6	2	15112
16034	fill	16033	ditch		0.6	2	15112
16035	cut	0	ditch	0.71	0.23	2	16035
16036	fill	16035	ditch		0.23	2	16035
16037	cut	0	ditch	1.16	0.58	2	15112
16038	fill	16037	ditch		0.58	2	15112
16039	cut	0	ditch	0.28	0.61	2	15112
16040	fill	16039	ditch		0.61	2	15112
16041	cut	0	ditch	0.6	0.4	2	15112
16042	fill	16041	ditch		0.4	2	15112
16043	cut	0	ditch	0.6	0.4	2	15112
16044	fill	16043	ditch		0.4	2	15112
16045	cut	0	ditch	0.75	0.55	2	15112
16046	fill	16045	ditch		0.55	2	15112

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
16047	cut	0	ditch	1.1	0.6	2	15112
16048	fill	16047	ditch		0.6	2	15112
16049	cut	0	ditch	0.89	0.37	2	15112
16050	fill	16049	ditch		0.37	2	15112
16051	cut	0	ditch	0.91	0.48	2	15112
16052	fill	16051	ditch		0.26	2	15112
16053	fill	16051	ditch		0.32	2	15112
16054	cut	0	ditch	0.6	0.12	2	16035
16055	fill	16054	ditch		0.12	2	16035
16056	cut	0	ditch	0.7	0.6	2	15112
16057	fill	16056	ditch		0.6	2	15112
16058	cut	0	ditch	1.3	0.5	2	15112
16059	fill	16058	ditch		0.5	2	15112
16060	cut	0	ditch	0.44	0.17	2	15112
16061	fill	16060	ditch		0.17	2	15112
16062	cut	0	ditch	1.43	0.78	2	15112
16063	fill	16062	ditch		0.48	2	15112
16064	fill	16062	ditch		0.43	2	15112
16065	cut	0	ditch	1.41	0.56	2	15112
16066	fill	16065	ditch		0.56	2	15112
16067	fill	16965	ditch		0.22	2	15112
16068	cut	0	ditch	0.68	0.14	2	16035
16069	fill	16068	ditch		0.14	2	16035
16070		0				0	
16071	fill	16081	ditch	0.6	0.15	2	15112
16072	cut	0	ditch	1.1	0.28	2	16035
16073	fill	16072	ditch		0.28	2	16035
16074	cut	0	ditch	0.5	0.28	4	
16075	fill	16074	ditch		0.28	4	
16076	cut	0	ditch	0.6	0.38	4	
16077	fill	16076	ditch		0.38	4	
16078	cut	0	ditch	0.45	0.25	2	16035
16079	cut	0	ditch	0.82	0.2	2	16079
16080	cut	0	ditch	0.19	0.14	2	16079
16081	cut	0	ditch	1.1	0.62	2	15112
16082	cut	0	ditch	0.3	0.3	2	15112
16083	fill	16082	ditch		0.3	2	15112
16084	cut	0	pit	0.6	0.34	2	
16085	fill	16084	pit		0.34	2	
16086	cut	0	ditch	0.51	0.13	2	16035
16087	fill	16086	ditch		0.13	2	16035
16088	cut	0	ditch	0.4	0.51	2	15112
16089	fill	16078	ditch		0.25	2	16035
16090	fill	16079	ditch		0.2	2	16079
16091	fill	16080	ditch		0.14	2	16079
16092	fill	16081	ditch		0.44	2	15112

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
16093	fill	16081	ditch		0.26	2	15112
16094	fill	16088	ditch		0.26	2	15112
16095	fill	16088	ditch		0.45	2	15112
16096	cut	0	pit	1.14	0.36	2	
16097	fill	16096	pit		0.36	2	
16098	cut	0	ditch	0.6	0.35	4	
16099	fill	16098	ditch		0.35	4	
16100	cut	0	ditch	0.6	0.2	2	16079
16101	fill	16100	ditch		0.2	2	16079
16102	cut	0	ditch	0.74	0.49	2	16035
16103	fill	16102	ditch		0.1	2	16035
16104	fill	16102	ditch		0.39	2	16035
16105	cut	0	ditch	1.2	0.66	2	15112
16106	fill	16105	ditch		0.16	2	15112
16107	fill	16105	ditch		0.51	2	15112
16108	cut	0	ditch	1.74	0.62	2	15112
16109	fill	16108	ditch		0.22	2	15112
16110	fill	16108	ditch		0.32	2	15112
16111	fill	16108	ditch		0.5	2	15112
16112	cut	0	ditch	0.2	0.5	2	16079
16113	fill	16112	ditch		0.1	2	16079
16114	fill	16112	ditch		0.4	2	16079
16115	cut	0	ditch	1.1	0.38	4	
16116	fill	16115	ditch		0.12	4	
16117	fill	16115	ditch		0.2	4	
16118	cut	0	pit	0.4	0.12	2	
16119	fill	16118	pit		0.12	2	
16120	cut	0	ditch	0.5	0.51	2	16079
16121	fill	16120	ditch		0.51	2	16079
16122	cut	0	ditch	0.6	0.16	2	16079
16123	fill	16122	ditch		0.16	2	16079
16124	cut	0	ditch	0.6	0.3	2	16079
16125	fill	16124	ditch		0.3	2	16079
16126	cut	0	ditch	0.8	0.38	2	16079
16127	fill	16126	ditch		0.38	2	16079
16128	cut	0	ditch	0.6	0.26	2	16079
16129	fill	16128	ditch		0.26	2	16079
16130	cut	0	ditch	0.9	0.4	2	16079
16131	fill	16130	ditch		0.4	2	16079
16132	cut	0	pit	0.7	0.26	2	
16133	fill	16132	pit		0.26	2	
16134	cut	0	ditch	0.6	0.24	2	16079
16135	fill	16134	ditch		0.24	2	16079
16136	cut	0	ditch	1	0.5	2	15112
16137	fill	16136	ditch		0.5	2	15112
16138	cut	0	ditch	1	0.4	2	15112

Context	Category	Cut	Feature Type	Breadth	Depth	Phase	Group
16139	fill	16138	ditch		0.4	2	15112

Table 9: Context inventory

APPENDIX B ARTEFACT ASSESSMENTS

B.1 Metalwork

By Denis Sami

B.1.1 A single iron artefact was recovered from the primary fill of Phase 2 pit **15152** (Table 10).

B.1.2 Although it is covered with rust and thin encrustation the item is complete and overall, in good condition.

B.1.3 It is made of a slightly curved rod of metal with rectangular cross-section expanded at the two ends to form sub-triangular with rounded angles terminals. Each terminal is pierced by a circular hole now filled with rust. This object could be a belt mount and its chronology can only be assumed by the associated MIA pottery. Tentatively it can be suggested to be of Iron Age or later date.

SF	Context	Trench	Description	Length (mm)	Width (mm)	Thickness (g)
1501	15153	R20	A possible belt mount made of a metal rod with sub-rectangular cross section. The rod expands at the two ends to form a sub-triangular terminal pierced by a circular hole.	55	15.3	4.7

Table 10: Catalogue of metalwork

B.2 Slag

By Simon Timberlake

Introduction

B.2.1 A total of 219g (seven pieces) of iron furnace slag and 246g (13 pieces) of probable roasted iron was examined from this excavation.

Methodology

B.2.2 These were identified visually using an illuminated x10 magnifying lens, and then tested with a magnet for their degree of magnetisation. A dropper bottle containing dilute hydrochloric acid was used to confirm the presence or absence of calcium carbonate. A strong magnet was used to indicate degrees of magnetisation (i.e. the presence of free iron or wustite).

Catalogue and description

B.2.3 Table 11 provides a full catalogue of the material examined. In all cases the iron mineral and its associated matrix were strongly magnetised as a result of all-round heating, most probably within a roasting hearth. The strong magnetisation was as a result of the conversion of some of the goethite (or hematite) within the ore to

magnetite. Examination of the ore pieces suggests that these came from the oxidised outcrop (gossan) horizon of the Northants Ironstone (Northampton Sand Formation), perhaps extracted from a nodule bed. The uniformly broken pieces suggest that this was an intentionally procured iron ore, further enriched by roasting prior to its intended use for smelting.

B.2.4 The small amount of burnt and probably roasted goethitic ironstone recovered from Plot DC3 contexts 16053 and 16067 is probably representative of the iron ore smelted. It appears to be quite similar to the roasted and broken nodular ironstone recovered from Plots R20 and R21b, the latter lying closer to the epicentre of the iron smelting and ironworking. The much smaller amount of roasted ironstone from this particular phase is strongly magnetic – implying a longer period of intense roasting and preparation. It is difficult with such a small sample to estimate the size of the pieces used for roasting, but 30-50mm matches what one might expect for a roasting bed, and also the size of the roasted ore pieces recovered from the Phase 2 evaluation of Hanwood Park (i.e. the 167g recovered from pit **50400** (50401) in Trench 504; ENN109948; Lewis 2021). The ironstone was probably collected locally from a nodule bed overlying the outcrop or subcrop of the Northamptonshire Ironstone.

B.2.5 The exceedingly weathered and broken-up iron smelting slag which came from an adjacent context to the roasted ironstone (16066) represents part(s) of a discarded and presumably surface-exposed slag cake composed of porous furnace conglomerate which has evidently been pulled out from the slag pit (or furnace bottom) of a shaft furnace used to smelt iron. The very eroded outline of the curvilinear edge of this slag cake defines one small part of the internal circumference of the furnace or slag pit, thus it can be estimated (very approximately) as being 250-300mm in diameter. This is a fairly standard size for an Iron Age to Romano-British furnace. Due to the very intense weathering at surface no interstitial charcoal remains, and most or all of the free iron has now oxidised. The slag lump has weathered into small pieces, has become ochreous, and is poorly magnetic.

Context/ SF no.	Nos piece	dimensions (mm)	Wt. (g)	Magnet (0-4)	Category	Type	Comments
15533	2	22x20x10 + 25x20x11	14	4	Roasted iron ore	Smelting	
15020	1	35x25x9	13	0	Roasted iron ore	Smelting	
15592	4	65x45x28 + 60x50x42 + 20-26	174	1-4	Roasted iron ore	Smelting	box-like and botryoidal goethite concretions after Northants Ironstone
16053	4	50x30x30 + 14-23	40	1-4	burnt goethite ironstone	Smelting	x2 refitting pieces+. Strongly burnt and magnetic ironstone nodule

Context/ SF no.	Nos piece	dimensions (mm)	Wt. (g)	Magnet (0-4)	Category	Type	Comments
							– possibly roasted ore?
16066	7	85x60x22 +60x45x28 + 35-10 Original hearth diam. 250-300?	219	0-1	furnace conglomerate	Smelting	some very weathered and disintegrated fragments of slag cake from a smelting furnace bottom – largely altered to goethite/ limonite
16067	2	15-20	5	3-4	burnt goethite ironstone	Smelting	small fragments – possibly roasted ore?

Table 11: Catalogue of iron slag

Mag 0-4 = degrees of magnetisation (0 = none; 1 = faint)

Assessment

B.2.6 Despite there being an outcrop of the Northants Ironstone close-by, and the presence of an iron-enriched goethite cap to this sideritic ore on site, there was no evidence from this assemblage of the actual iron smelting activity. The very small recovery of iron smelting evidence from this part of the site, plus the evidence for the weathering and exposure of the smelting slag would appear to suggest that the current area of investigation lies some distance from the centre of the ironworking activity. However, the material sampled here confirms the general narrative of Romano-British iron smelting, and is also consistent with what was recovered in 2020.

B.2.7 The paucity of other Romano-British dated finds (such as tile) from this site, in addition to the positive identification of Middle-Late Iron Age quern, supports the idea that this primary metalworking could be Iron Age in date. However, on typology alone, this is difficult to confirm, given the absence at the time of analysis, of a full pottery-dated phasing of the site and features.

B.2.8 However, the 2017 OA East evaluation at East Kettering (Gilmour 2012) did produce material evidence of Roman settlement, as did other nearby sites such as Land east of Kettering, Phase 2 Evaluation (Lewis 2021) and Cranford Business Park, Kettering (Clarke 2021; Clarke *forth.*). In fact, the Kettering Phase 2 evaluation did provide good evidence for local iron smelting of Late Iron Age or Romano-British origin, whilst Cranford Business Park produced no evidence for smelting, but strong evidence for Romano-British iron smithing.

B.2.9 Close by to Corby the Northants Ironstone was being exploited and also smelted to produce bloomery iron from the Late Iron Age through to the Roman period (Hall 2008), as it was along the Northamptonshire outcrop of these iron-bearing rocks (including within the area around Kettering) in Roman times (Schrufer-Kolb 2007; Condron 1997, 2+8).

B.2.10 Kettering is located within one of the main iron-producing areas of Roman Britain on the Northamptonshire Ironstone ridge. The administrative centre of this industry was the town of Durobrivae (Water Newton) (Scrüfer-Kolb 2007). Archaeological investigations carried out along the length of the Northants. Ironstone outcrop have revealed smaller ironworking settlements with abundant evidence both for smelting (such as Bulwick, Byfield, Wakerley, Weldon, Kings Cliffe, Laxton, Collyweston and also Kettering) and smithing (Ashton, Nassington and Thorplands (SEE Condron 1997,13-16)). There seems little doubt therefore that Kettering was geographically at the heart of this industry; a fact confirmed by a glance at the map (Figure 1) showing all the known Roman mining, roasting, smelting and smithing sites within the East Midlands (after Scrüfer-Kolb ibid. figs 53 & 55).

B.2.11 Proto-tap slagging iron furnaces dating to the Late Iron Age- Conquest period (100BC-AD50) have been excavated at Priors Hall near Corby (Hall 2008) some 20 miles to the north of here, yet still within the heart of the Roman iron-producing area. At the latter site shaft furnaces with an internal diameter of about 300mm and furnace walls of between 40mm-200 thick were found which had been built into the side of deep slag pits with a tapping arch at the base. From these points the furnace walls had been broken in order to release pools of slag into the slag pits in advance of the consolidation and release of the iron blooms.

B.2.12 At Priors Hall the ironworkers were exploiting iron ore which came from the enriched nodule bed (Stamford Member) at the base of the Estuarine Series overlying the primary Northamtonshire Ironstone, and/or the Lincolnshire Limestone which lay above this(Hall 2006). At Hanwood, Kettering a similar ore source may have been located; the weathered nodule bed lying above the outcrop being much richer in iron than the Northants Ironstone itself, and also less silica-rich, therefore easier to smelt.

B.2.13 Interestingly, at the nearby site of Cranford Business Park, Kettering, OA East excavations carried out in 2016 found no evidence for iron smelting, yet a moderate amount of evidence for secondary iron smithing (Clarke 2021; Clarke *forth.*). However, at Warth Park, Raunds, excavations carried out in 2017 showed that up to a third of the slag was derived from iron bloomery smelting, as indicated by the tap slag recovered. Most of the latter appeared to be Roman in date, using a similar ore source and technique to that employed here.

B.2.14 Given the better finds assemblage recovered from XNNHAN20, there seems little incentive to undertake further investigation on the current material, and it can probably be disposed of.

Further work

B.2.15 No further investigation of this small amount of possible ironworking (smelting) evidence is required. However, the interpretation of both this evidence as well as that from Site B needs to be amalgamated and both spatially and chronologically assessed once a full-phasing and interpretation of the settlement evidence is made available. At this point the proper interpretation of the technology and processes as well as settlement location of this activity can be conducted. In the meantime, this small amount of material should be retained.

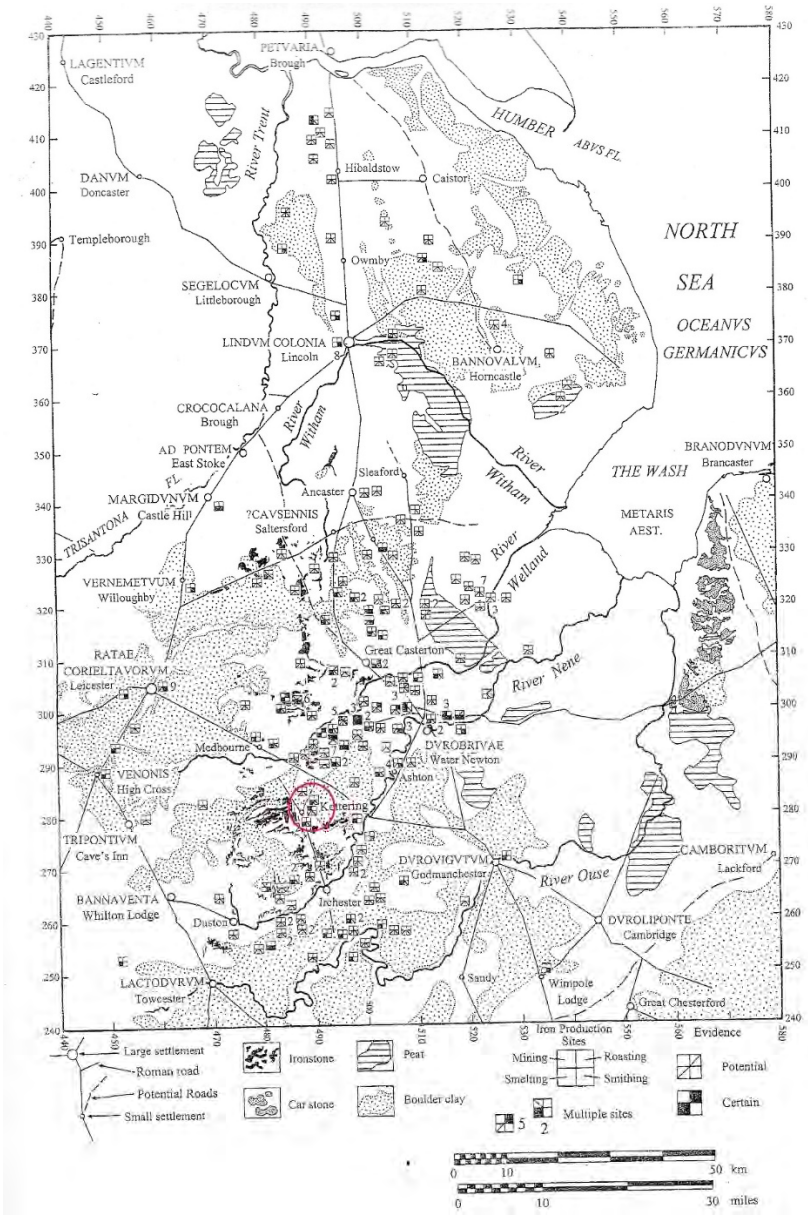

Fig. B.2.1: A map of the East Midlands iron-producing district which follows (in its southern part) the outcrop/ sub-crop of the Northamptonshire Ironstone. The location of Kettering is shown with its associated mining and smelting sites (after Scrüfer-Kolb 2007)

B.3 Glass

By Carole Fletcher

Introduction

B.3.1 Archaeological works produced a single shard of glass, weighing 0.006kg. The assemblage is entirely vessel glass, with a minimum number of vessels (MNV) of one.

Methodology

B.3.2 The glass was scanned and recorded by form, colour, count and weight, dated where possible and recorded in the text, with the DAACS Glass Vessel Manual (updated 2018),

The Parks Canada Glass Glossary (revised 1989) and Romano-British Glass Vessels: A Handbook (1998) acting as guides. The assemblage is catalogued in the text and the glass and archive are curated by Oxford Archaeology East until formal deposition or dispersal.

Factual Data

B.3.3 A single shard of vessel glass, weighing 0.006kg, was recovered from ditch **15005**. The shard is clear, near colourless with some small faults and occasional small bubbles. The sub-rectangular body sherd (24 x 27mm) is gently curved, as if from a bowl or the shoulder from a bottle, with a smooth internal surface and slightly weathered external surface with slight iridescence on the edges of the shard. The shard is 3.5-4.4mm thick and has, on its external surface, an incomplete rounded band (6mm wide) standing slightly proud of the glass surface and part of which feels matt, as if ground. Internally, there is a slight depression in the glass which aligns with the external raised band. There is a second somewhat matt area on the external surface of the glass towards one edge.

Assessment

B.3.4 Unfortunately, the vessel glass cannot be closely dated, and no other datable finds were recovered from this context. The glass shares some characteristics with Roman glass, yet its thickness and general appearance suggest it may be 19th century.

Statement of Potential

B.3.5 The limited size of the assemblage mean it has no potential to aid local, regional and national research priorities.

Recommendations for further work

B.3.6 No further work is recommended, beyond preparing a statement for publication and the catalogue acts as a full archival record.

Retention, dispersal and display

B.3.7 The glass may be deselected prior to archive deposition.

B.4 Flint

By Lawrence Billington

Introduction

B.4.1 A very small assemblage consisting of ten worked flints and a single worked burnt flint was recovered during the excavations. The assemblage is quantified by type and context in Table 12.

Methodology

B.4.2 The assemblage was catalogued directly onto an Excel spreadsheet and the artefacts were classified according to a system of broad artefact/debitage types based on standard definitions for post-glacial lithic assemblages from southern Britain (*e.g.* Bamford 1985, 72-77; Healy 1988, 48-9; Butler 2005).

Characterisation

B.4.3 The flint was recovered in very low densities from the fills of cut features. The condition of most of the worked flint is moderately good, albeit often with minor edge damage/rounding indicative of a degree of post-depositional disturbance – consistent with this material largely or entirely representing residual material caught up in the fills of later features. All of the unburnt worked flint displays recortication ('patination'), presumably reflecting the soil conditions of the site.

B.4.4 The worked flint is made up largely of unretouched material, with the only retouched tool being a broken oblique arrowhead of Late Neolithic date from ditch **16072**. The assemblage includes some blade-based material, with two blades (from pit **15019** and ditch **16065**) and a blade-like flake (ditch **15180**), likely to be of Mesolithic or Early Neolithic date. The remainder of the assemblage is less diagnostic, consisting of simple flake-based pieces, and the only core in the assemblage (from ditch **15540**) is a small minimally worked flake core. None of this material is especially distinctive, but most is likely to be of Neolithic to Early Bronze Age date.

Statement of potential

B.4.5 This small assemblage of residual flintwork is of very limited potential in terms of the research aims of the excavation, although it does provide some slight evidence for low intensity prehistoric activity at the site and at some stage the density and character of the flintwork form the excavations could be compared with the material from the other phases of work in the wider landscape.

Recommendations

B.4.6 No further work is required. An appropriately edited version of this report should be included in any full excavation report.

Retention and discard

B.4.7 The worked flint should be retained in the archive, whilst the single piece of unworked burnt flint can be considered for discard if appropriate.

Context	Cut	Feature Type	Sample	Chip	Irregular waste	Flake	Blade-like flake	Blade	Minimally worked core	Oblique arrowhead	Total worked	Unworked burnt flint	Unworked burnt flint wt. (g)
15082	15079	Ditch				1					**1**		
15247	15246	Posthole	15247	1							**1**		
15020	15019	Pit						1			**1**		
15185	15180	Ditch					1				**1**		
15119	15118	Pit			1						**1**		
15081	15079	Ditch				1					**1**		
15299	15297	Ditch			1						**1**	1	2.6
15541	15540	Ditch							1		**1**		
16067	16065	Ditch								1	**1**		
16073	16072	Ditch						1			**1**		
Totals				**1**	**2**	**2**	**1**	**2**	**1**	**1**	**10**	**1**	**2.6**

Table 12: Quantification of flint assemblage

B.5 Iron Age Pottery

By Carlotta Marchetto

Introduction

B.5.1 An assemblage, totalling 1270 sherds (9847g) of Iron Age pottery, was recovered from the excavation, displaying a low mean sherd weight (MSW) of 7.8g. The pottery was recovered from a total of 159 contexts relating to 120 cut features/labelled interventions (Table 13). All the material analysed is handmade and belongs to the Middle/Later Iron Age potting tradition, c.350BC-50AD.

B.5.2 The pottery is in a moderate/poor condition and most sherds are small (<4cm in size) and abraded, as reflected by the low MSW. The assemblage does contain a modest number of rims sherds, bases and partial vessel profiles sufficiently intact to ascribe to form. Dating is therefore largely based on the character of the fabrics and their comparison with material from larger published assemblages from the Northamptonshire area.

B.5.3 This assessment report provides a general characterisation of the assemblage with basic quantification (counts and weights) of the material by context and date. It also provides a statement on significance and series of recommendations for further recording, analysis, publication and retention.

Methodology

B.5.4 All the pottery has been fully recorded following the recommendations laid out by the Prehistoric Ceramic Research Group (2011). After a full inspection of the assemblage, fabric groups were devised on the basis of dominant inclusion types, their density and

modal size. Sherds from all contexts were counted, weighed (to the nearest whole gram) and assigned to a fabric group. Sherd type was recorded, along with technology (wheel-made or handmade), evidence for surface treatment, decoration, and the presence of soot and/or residue. Rim and base forms were described using a codified system recorded in the catalogue and were assigned vessel numbers.

B.5.5 Where possible, rim and base diameters were measured, and surviving percentages noted. In cases where a sherd or groups of refitting sherds retained portions of the rim and shoulder, the vessel was also categorised by form. The Middle Iron Age-type forms were codified using the series developed by JD Hill (Hill and Horne 2003, 174; Hill and Braddock 2006, 155-156). The Late Iron Age vessels were classified using Isobel Thompson's (1982) catalogue, and her alphanumeric codes, prefixed with TH-.

B.5.6 All pottery was subject to sherd size analysis. Sherds less than 4cm in diameter were classified as 'small' (1005 sherds; 84%); sherds measuring 4-8cm were classified as 'medium' (179 sherds; 15%), and sherds over 8cm in diameter will be classified as 'large' (seven sherds; 1%). The quantified data is presented on an Excel data sheet held with the project archive.

Assessment of Middle Iron Age pottery (350-50 BC)

B.5.7 The assemblage comprises 1237 sherds of pottery (9570g) with a MSW of 8g. The pottery derives from 160 contexts relating to 121 cut features/labelled interventions. These are associated with 87 ditches, 26 pits, two stake holes, one post hole, one gully, one paleochannel, a tree throw, one unstratified context and a surface. A total of 1186 sherds (9174g) derive from Period 2 contexts (96% of the pottery by count), whilst 18 sherds (31g) are interpreted as residual in Period 3 contexts and 12 sherds (173g) are from Period 0 contexts. The remaining sherds (6 sherds, 36g) are from unphased contexts. The residual pottery comprises small abraded sherds with a MSW of just 2g.

Assemblage characteristics

B.5.8 The assemblage contains sherds in a range of fabrics, all broadly typical of pottery groups dating to the Middle Iron Age in this part of Northamptonshire. They include a mix of shelly wares and sandy wares. In total four basic fabric groups have been distinguished. Shelly ware fabrics constitute around 90% of the pottery (by weight), and sherds with just sand in account for only 1% of the material. The other sandy wares have inclusions of shell (9%). Pottery with just shell accounts for 87% of the material, with other shelly wares having a mix of shell, sand and grog (3%).

B.5.9 Based on the total number of different rims and bases identified, the Middle Iron Age is estimated to contain a minimum of 94 different vessels: 48 different rims, 27 different bases, 18 partial vessel profiles and one complete vessel profile. Most vessels have simple upright rounded, flat-topped or externally thickened rims and two display a lid-seated rim. Partial vessel profiles are relatively common (18 identified), with vast majority being small slack-shouldered or slightly globular with no distinct neck zone but a clearly defined rim (Hill Form A and L). Other types include neckless barrel-shaped jars (Hill Type K), slack-shouldered vessels with distinctive flared necks (Hill Form D), constricted necked vessels (Hill Form B), and globular S-profiled vessels (Hill

Form F). Measurable vessel rims (15 in total) have a range of dimeters from a minimum of 14cm to a maximum of 24cm and belong to small to medium-sized pots. Vessels of this size are likely to have been everyday cooking and serving pots, although only one retains traces of carbonised residue.

B.5.10 Evidence of vessel use was found in the form of soot marks and thick carbonized food crust. These were recorded on a total of 117 sherds (1274g), on the exterior and interior surfaces. In terms of use-wear, the only notable sherd was a partial vessel profile from ditch **15353**, which had been modified with a pre-firing perforation, presumably to enabling the vessel to be hang. This vessel also presents a lid-seated rim.

B.5.11 Decoration is present on 72 sherds (918g). Applications include fingertip and nail treatments on the rim-top of vessels, with seven of the 94 vessels rims in the assemblage decorated. Some body sherds display fingertip and fingernail impressions, incised lines, combing, grooving and tool impressions. Scoring is other type of 'decoration', with 48 sherds (536g) displaying scoring characteristic of the East Midlands Scored Ware tradition (Elsden 1992).

Key groups

B.5.12 There are a number of context/group assemblages from period that may be classified as large (over 500g of pottery) and constitute key ceramic groups. Pits **15094**, **15152**, **15557** yielded medium assemblages weighing 473g, 245g and 243g. Larger groups derived from ditches **15112** (80 sherds, 539g), **15253** (85 sherds, 1038g) and **15711** (98 sherds, 660g). These constitute the key groups and contain 26 of the 94 different vessels represented in the Middle Iron Age assemblage, with seven form assigned vessels.

Assessment of Later Iron Age pottery (350-50 BC/AD 50)

B.5.13 The Later Iron Age assemblage comprise 33 sherds (277g). The pottery derived from six contexts relating to one pit and four ditches and one tree throw.

Assemblage characteristics

B.5.14 The Later Iron Age assemblage is characterised by sherds in shell, shell and grog and sandy fabrics. Shelly wares dominate (31 sherds, 215g), these also contain grog and sand inclusions. The sandy and shell fabric is only represented by two sherds (62g). Shelly ware fabrics constitute around 76% of the pottery by weight.

B.5.15 The assemblage is characterised only by handmade sherds. Fabric types overlap with those of the Middle Iron Age, though handmade grog tempered wares are also present. The assemblage includes a globular bowl ornamented with grooved horizontal lines above and on the shoulder (TH-D2-4/7). It probably belongs to a late La Tène style decorated bowl, allied to Knight's (2002, 131) Northamptonshire group.

Statement of Potential

B.5.16 The pottery from east Kettering is primarily handmade and dates from the Middle to the Later Iron Age, *c.*350-50 BC/AD50. The ceramic traditions of this period are long-

lived, relatively conservative, and can be difficult to closely date on conventional typo-chronological grounds (Brundenell 2012).

B.5.17 The Middle to Later Iron Age assemblage include several key groups containing partial and complete vessel profiles. The assemblages comprise an average number of scored sherds (4% by count) and reflect the geographic position of the site on the periphery of the main Scored Ware-zone distribution (Elsdon 1992). The Later Iron Age assemblage also contains refitting fragments of a rippled globular bowl, possibly dating to the second or first centuries BC based on the current evidence (Jackson and Dix 1988), though an earlier origin has been suggested (Knight 2002, 131).

B.5.18 The assemblage can therefore be compared to other assemblages in the region to further explore how ceramics changed across the Later Iron Age and could help build a more detailed understanding of ceramic development in this part of the landscape. The pottery assemblage from Crick Covert Farm shows similarities with Kettering assemblage, as the absence of wheelmade 'Belgic' style vessels which may have been current a little later (Hughes and Woodward 2015, 13).

Recommendations for Further Work

B.5.19 All the prehistoric pottery should be subject to full analysis, focussing on forms, fabrics, method of surface treatment, vessel use, patterns of vessel fragmentation and deposition. The attribute data should be presented in a fully quantified archive pottery report. The main focus of the analysis should be on the assemblage affinities with contemporary groups from the surrounding area.

B.5.20 The assemblage is worthy of publication. Publication should provide a summary version of the archive pottery report, combined with illustrations a selection of form-assigned vessels Priority should be given to illustrating material from any radiocarbon dated contexts. Radiocarbon dates should be sought to clarify the site chronology and the date of the pottery within the Middle to Later Iron Age.

B.5.21 Illustrations: 10 vessel profiles, two decorated body sherds, two handles.

B.5.22 Analytical report on the above and a synthesis for publication (4 days).

Retention, Display and Display

B.5.23 None of the material should be considered for dispersal until the phasing is complete and all pottery has been analysed. It may be appropriate to disperse residual material after the production of an archive pottery report.

Context	Cut	Feature	No. sherds	Wt. (g)	Date
15012	15011	Pit	10	90	MIA
15018	15017	Pit	5	14	MIA
15018	15017	Pit	1	5	MIA/LIA
15020	15019	Pit	4	29	MIA
15048	15047	Ditch	1	1	MIA
15051	15049	Ditch	4	12	MIA
15052	15049	Ditch	5	49	MIA

Context	Cut	Feature	No. sherds	Wt. (g)	Date
15072	15071	Ring-ditch	5	19	MIA
15075	15073	Ring-ditch	3	46	MIA
15077	15076	Ditch	3	13	MIA
15080	15079	Ditch	2	12	MIA
15081	15079	Ditch	21	102	MIA
15082	15079	Ditch	13	62	MIA
15093	15092	Pit	4	9	MIA
15095	15094	Pit	57	473	MIA
15109	15108	Ring-ditch	3	26	MIA
15111	15110	Ring-ditch	1	3	MIA
15115	15112	Ditch	32	223	MIA
15116	15112	Ditch	48	316	MIA
15117	15120	Ditch	20	189	MIA
15119	15118	Pit	26	192	MIA
15123	15096	Pit	3	18	MIA
15135	15134	Ditch	1	1	MIA
15143	15142	Ditch	7	28	MIA
15153	15152	Pit	29	152	MIA
15155	15152	Pit	11	24	MIA
15157	15152	Pit	10	69	MIA
15161	15160	Ditch	4	15	MIA
15163	15162	Ditch	2	11	MIA
15163	15162	Ditch	5	20	MIA/LIA
15165	15164	Ditch	4	98	MIA/LIA
15165	15164	Ditch	4	60	MIA
15167	15166	Pit	12	19	MIA
15181	15180	Ditch	4	20	MIA
15182	15180	Ditch	3	14	MIA
15184	15183	Ditch	6	17	MIA
15185	15180	Ditch	8	36	MIA
15190	15189	Pit	4	19	MIA
15192	15191	Pit	1	6	MIA
15205	15204	Pit	11	111	MIA
15208	15207	Ditch	3	16	MIA
15208	15207	Ditch	18	86	MIA/LIA
15210	15209	Pit	3	1	MIA
15213	15211	Pit	1	3	MIA
15217	15216	Pit	1	2	MIA
15221	15220	Ring-ditch	4	18	MIA
15226	15224	Ditch	2	1	MIA
15229	15227	Pit	3	29	MIA
15231	15203	Ditch	17	57	MIA
15249	15237	Pit	1	6	MIA
15251	15239	Pit	1	2	MIA
15254	15253	Ditch	85	1038	MIA
15260	15258	Pit	1	1	MIA
15262	15261	Pit	7	9	MIA

Context	Cut	Feature	No. sherds	Wt. (g)	Date
15265	15264	Ditch	2	7	MIA
15271	15270	Ditch	2	22	MIA
15273	15272	Ditch	3	6	MIA
15277	15276	Ditch	2	27	MIA
15281	15280	Ditch	1	4	MIA
15298	15297	Ditch	6	57	MIA
15299	15297	Ditch	10	48	MIA
15302	15300	Ditch	9	184	MIA
15310	15309	Ditch	3	19	MIA
15312	15311	Ditch	2	11	MIA
15325	15324	Ditch	2	20	MIA
15326	15324	Ditch	10	35	MIA
15328	15327	Ditch	1	4	MIA
15341	15340	Ditch	7	13	MIA
15351	15350	Ditch	18	120	MIA
15352	15350	Ditch	7	49	MIA
15355	15353	Ditch	13	89	MIA
15356	15353	Ditch	8	219	MIA
15357	15353	Ditch	4	22	MIA
15365	15364	Surface	2	50	MIA
15404	15403	Post Hole	2	6	MIA
15416	15415	Ditch	4	16	MIA
15462	15461	Ditch	4	3	MIA
15466	15465	Ditch	1	4	MIA
15466	15465	Ditch	3	5	MIA/LIA
15500	15499	Ditch	13	62	MIA
15501	15499	Ditch	1	13	MIA
15510	15509	Ditch	6	76	MIA
15513	15512	Ditch	1	1	MIA
15529	15526	Ditch	4	35	MIA
15531	15530	Pit	2	20	MIA
15535	15534	Pit	1	6	MIA
15537	15536	Ditch	2	15	MIA
15538	15536	Ditch	19	244	MIA
15539	15536	Ditch	10	60	MIA
15541	15540	Ditch	3	156	MIA
15548	15546	Ditch	1	37	MIA
15549	15546	Ditch	14	90	MIA
15551	15550	Ditch	6	10	MIA
15563	15556	Ditch	23	143	MIA
15564	15557	Pit	10	84	MIA
15565	15557	Pit	17	159	MIA
15570	15559	Ditch	2	18	MIA
15579	15578	Stake Hole	1	2	MIA
15581	15580	Stake Hole	1	1	MIA
15590	15589	Ditch	5	31	MIA
15591	15207	Ditch	15	141	MIA

Context	Cut	Feature	No. sherds	Wt. (g)	Date
15592	15207	Ditch	1	5	MIA
15596	15595	Ditch	1	4	MIA
15597	15595	Ditch	17	141	MIA
15608	15606	Ditch	2	18	MIA
15609	15606	Ditch	9	70	MIA
15610	15606	Ditch	12	82	MIA
15612	15611	Ditch	1	27	MIA
15613	15611	Ditch	3	27	MIA
15614	15611	Ditch	4	44	MIA
15616	15615	Ditch	1	2	MIA
15617	15615	Ditch	3	3	MIA
15623	15621	Ditch	1	11	MIA
15626	15624	Ditch	11	265	MIA
15640	15601	Ditch	3	10	MIA
15646	15645	Ditch	14	118	MIA
15647	15645	Ditch	3	25	MIA
15649	15648	Ditch	16	136	MIA
15650	15648	Ditch	2	17	MIA
15653	15652	Ditch	3	33	MIA
15654	15652	Ditch	6	44	MIA
15661	15655	Ditch	1	8	MIA
15661	15655	Ditch	2	63	MIA/LIA
15662	15655	Ditch	9	69	MIA
15664	15663	Ditch	2	23	MIA
15666	15665	Ditch	3	12	MIA
15668	15667	Ditch	2	6	MIA
15670	15669	Ditch	26	262	MIA
15672	15671	Pit	1	8	MIA
15676	15636	Ditch	1	20	MIA
15677	15636	Ditch	3	42	MIA
15678	15636	Ditch	4	23	MIA
15681	15679	Ditch	2	56	MIA
15683	15682	Ditch	3	26	MIA
15687	15686	Pit	1	1	MIA
15689	15688	Ditch	8	63	MIA
15691	15690	Gully	6	51	MIA
15693	15692	Ditch	1	3	MIA
15696	15694	Ditch	1	10	MIA
15700	15699	Ditch	9	37	MIA
15704	15703	Ditch	6	14	MIA
15706	15703	Ditch	3	11	MIA
15708	15707	Ditch	4	10	MIA
15710	15707	Ditch	8	30	MIA
15712	15711	Ditch	1	6	MIA
15713	15711	Ditch	39	191	MIA
15715	15711	Ditch	36	300	MIA
15716	15711	Ditch	22	163	MIA

Context	Cut	Feature	No. sherds	Wt. (g)	Date
15718	15717	Pit	3	23	MIA
15720	15719	Ditch	1	3	MIA
15724	15723	Ditch	13	53	MIA
15732	15731	Ring-ditch	6	83	MIA
15733	15589	Ditch	7	142	MIA
15737	15736	Ditch	2	3	MIA
16038	16037	ditch	1	6	MIA
16046	16045	ditch	4	28	MIA
16048	16047	ditch	6	25	MIA
16050	16049	ditch	1	7	MIA
16053	16051	ditch	21	155	MIA
16059	16058	ditch	7	11	MIA
16063	16062	ditch	7	35	MIA
16066	16065	ditch	20	129	MIA
16067	16065	ditch	8	42	MIA
16073	16072	ditch	2	13	MIA
16092	16081	ditch	4	10	MIA
99999	99999	unstrat	15	156	MIA
Total	-	-	1191	9389	-

Table 13: Catalogue of Iron Age pottery

B.6 Medieval to post-medieval pottery

By Carole Fletcher

Introduction and methodology

B.6.1 Archaeological works produced a small assemblage of post-Roman pottery (five sherds, weighing in total 0.053kg. The Prehistoric Ceramics Research Group (PCRG), Study Group for Roman Pottery (SGRP), and The Medieval Pottery Research Group (MPRG), 2016: A Standard for Pottery Studies in Archaeology and the MPRG A guide to the classification of medieval ceramic forms (MPRG 1998) act as standards. However, a simplified method of recording has been undertaken, with fabric, basic description, weight and count recorded in the text. Fabric codes used are based on the Northamptonshire County Type-Series where possible. The pottery and archive are curated by Oxford Archaeology East until formal deposition or dispersal.

Factual Data

B.6.2 Ditch **15029** produced a single moderately abraded body sherd (0.010kg) from a Lyveden/Stanion 'B' Ware (Fabric 320, *c.*1225-1400) olive green-glazed jug with applied strip decoration.

B.6.3 Ditch **15053** produced four unabraded sherds (0.043kg) from a 19th century Yellow ware flared bowl, with a slight carination towards the base, and a simple rounded rim (diameter 160mm, estimated vessel equivalent 27%), with fine annular slip decoration (12 lines) on the body.

Assessment

B.6.4 The pottery recovered spans the medieval to the 19th century and is very likely to be domestic in origin, however, the paucity of material suggests the post-Roman pottery represents redistribution of pottery by manuring and ploughing in the case of the medieval sherd, and possibly deliberate disposal into the ditch **15053** in the case of the 19th century material.

Statement of Potential

B.6.5 The assemblage has little potential to aid local, regional, and national research priorities.

Further work

B.6.6 This report acts as a full record, and no further work is recommended on this assemblage. If published, this report may be summarised for the publication.

Retention, dispersal and display

B.6.7 The pottery may be deselected prior to archive deposition.

B.7 Worked and burnt stone

By Simon Timberlake

Introduction

B.7.1 A total of 22 pieces (10.66kg) of stone were examined from this excavation, of which two pieces (7.61kg) consisted of worked stone and 20 pieces (3.05kg) were burnt. The worked stone consists of part of a saddlequern and a rubbing stone, with the latter showing evidence of burning.

Methodology

B.7.2 All the stone was identified visually using an illuminated x10 magnifying lens and compared where necessary with an archaeological worked stone reference collection. A dropper bottle containing dilute hydrochloric acid was used to confirm the presence or absence of calcite.

Description of burnt stone

B.7.3 This amounted to 20 pieces (3053g) of burnt and cracked cobble stone recovered from 13 different contexts. The largest single amount was recovered from context 15125 (two pieces, 903g), with slightly smaller amounts from 15095 (four pieces, 781g), 15156 (one piece, 594g) and 15081 (two pieces, 399g).

B.7.4 The majority of this stone, used for burning, had been derived from glacial erratic cobbles, perhaps collected from or else washed out of the local gravels and/or till. However, some of the limestone (perhaps <40g) may have been derived from the talus of the local limestone outcrops, in particular the Blisworth Limestone. The fired and cracked glacial cobblestone is dominated by quartzitic sandstone (700g), dolerite

(594g), micaceous sandstone (500g), sandstone (419g), quartzite (120g) and limestone (55g) (Chart 1). Most of this cobblestone is either lightly or moderately burnt (reddened and cracked), with a small proportion of it showing clear indications of cracking as a result of its quenching in water – presumably for the purposes of boiling water to cook food or create steam for the purposes of bathing. Just 78g of this stone consists of shattered fragments smaller than 55mm, with the great majority of it consisting of larger cobble fragments (55-160mm), but rarely complete ones (Chart 2).

Context no.	Nos. pieces	Size (mm)	Weight (g)	Geology	Source	Degree of burning	Comments
15018	1	20	5	quartzite	glacial	heavy	v small frag of cobble
15052	1	70x70x45	264	slight micaceous hard sstn	glacial	moderate	cracked cobble frag
15081	2	70x65x35 + 80x35x40	399	plant foss sstn (Deltaic Ser) + micac sstn	glacial	moderate	cobble frags with cracking
15095	4	80x75x40 + 80x60x30 + 75x60x25 + 65	781	med-coarse qtz sstn + qtz micac lamin sstn + quartzite + bioclast micritic lmstn	glacial	light-mod	cobble frags
15125 (1)	2	130x75x35	903	quartzitic sandstone + laminated sl micac qtz sstn	glacial	light-mod	split cobbles
15156	1	90x70x50	594	dolerite	glacial	heavy	broken + fract cobble frag
15241	1	35	12	limestone	glacial	light-mod	
15299	1	25x20x17	14	sandstone	glacial	moderate	small fragment
15356	1	75x27x15	34	limestone	glacial?	light-mod	
15662	2	22x30x7	6	sandstone		heavy	dark reduced + spooted
15677	2	40x25x12 + 30x20x11	32	bioclastic limestone	glacial?	light	Blisworth Limestone?
15683	1	25x15x7	5	limestone		light-mod	
15716	1	20	4	limestone		light	

Table 14: Catalogue of burnt stone

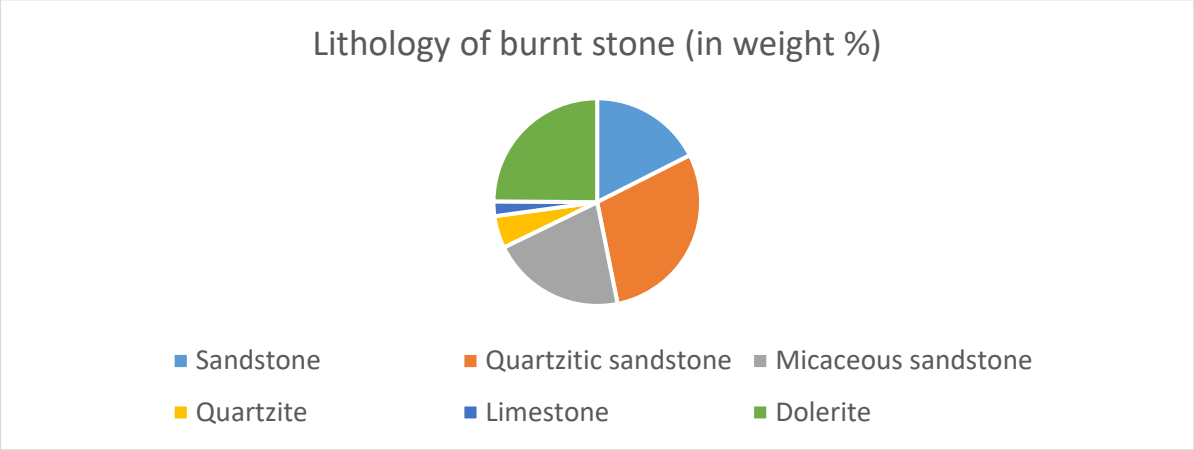

Chart 1: Lithology of burnt stone by percentage

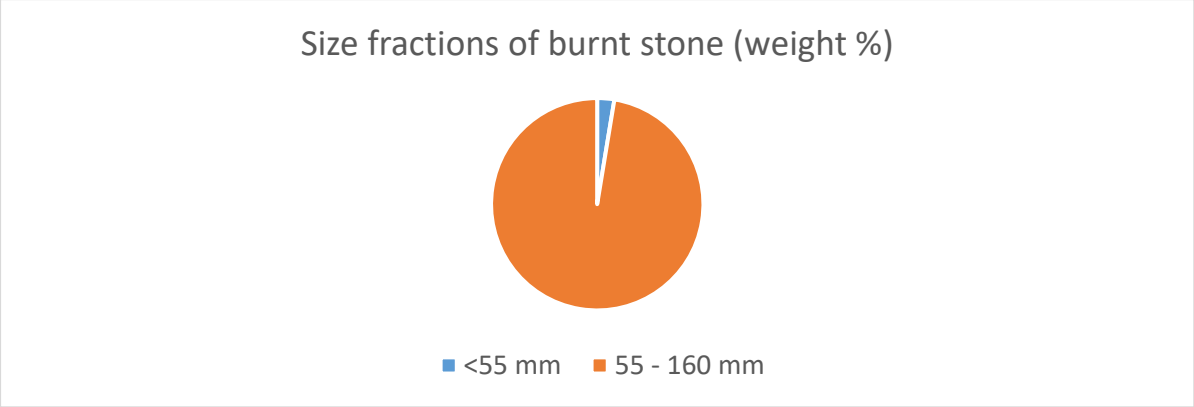

Chart 2: Size of burnt stone fractions by percentage

Catalogue and description of worked stone

B.7.5 Just a small amount of worked stone is identified amongst the stone collected from this site. This amounted to 7.61kg, consisting of an 'Iron Age-type' slab saddlequern made of a quartzitic sandstone sarsen cobble with an uneven base (6.5kg) and a rubbing stone for use with a quern that was made from a partially ground/smoothed flat-sided sandstone cobble which is also burnt (1.11kg). Neither stone showed much evidence of use wear yet are recognisable as artefacts.

Context	SF no.	Dimensions (mm)	Wt (kg)	Type	Grind Surface	Geology	Comment
15125 (2)		125x100x75	1.11	rubbing stone	1	hard sandstone	partially ground/ smoothed on flattest side. Mod burnt *

15296	1500	280x180x90	6.5	slab saddlequern	2	quartz sandstone sarsen type	fragment split off edge and continued use. Flat slightly convex (uneven base) *

Table 15: Catalogue of worked stone
*Grind surface 1 = little or no wear; 2 = minor wear (patchy); 3 = smooth; 4 = polish around rim; 5 = concentric wear striations * = recommend drawing for publication*

Assessment

B.7.6 Both the burnt stone and minor worked stone assemblages suggest a small settlement presence, most probably dating to the Early-Middle Iron Age, but perhaps earlier or later than this. Both assemblages are probably domestic in nature and most likely linked to midden deposition, but perhaps also re-deposition if this is associated with later settlement activity. Context 15125, (Period 2, pit **15096**) represents a moderately significant deposit of this material.

B.7.7 The stone assemblage would appear to indicate Early-Middle Iron Age rather than Late Iron Age-Conquest period settlement. Confirmation of this will depend upon the final phasing of the site, and in particular pottery dates from each of the respective context/features.

Further work

B.7.8 Little in the way of any further analysis of the objects will be required in this case, the main focus being a full interpretation of the assemblage based upon a better understanding of the date and function of the relevant feature/ contexts.

B.7.9 At the most this will be a day or two of additional work.

B.8 CBM

By Simon Timberlake

Introduction

B.8.1 A single piece of probable Roman brick weighing just 27g was examined from this excavation.

Methodology

B.8.2 The CBM was examined using an illuminated x10 magnifying lens for the identification of fabric type. A dropper bottle containing dilute hydrochloric acid was used to confirm the presence or absence of calcium carbonate.

Catalogue and description of CBM

B.8.3 Both the fabric and form of this tiny corner of brick suggests a Roman manufacture, possibly for a *besalis laterculus* pila-type hypocaust support brick, rather than a roof tile.

B.8.4 Effectively this fragment could just be a flake broken-off or frost-shattered from a larger piece. As such it is likely to be intrusive within the fill of an earlier feature.

Context	SF no.	No. frags.	dimension (mm)	Wt. (g)	Fabric type	Period	Artefact	Comments
15002		1	30x35x28	27	3	RB	brick	corner of Roman brick – somewhat weathered

Table 16: Catalogue of CBM

Further work

B.8.5 No further work is envisaged on this piece, yet its occurrence here should be interpreted in the context of the wider archaeology of the site and its hinterland.

B.9 Fired clay

By Simon Timberlake

Introduction

B.9.1 A total of 98 pieces (24.220kg) of fired clay were examined from this excavation, the majority of which consists of a very poorly fired coarse shelly clay fabric used (most probably) in the construction of the walls or floor of an oven.

Methodology

B.9.2 All of the fired clay was examined using an illuminated x10 magnifying lens for the identification of clay fabric types. A dropper bottle containing dilute hydrochloric acid was used to confirm the presence or absence of calcium carbonate.

Description of fired clays

B.9.3 The fired clay assemblage from this site is dominated by a very large amount of poorly consolidated shelly clay (Fabric K), most of which (up to 24 kg) was recovered as a dump from a single context (15592, Phase 2, ditch **15207**, group **15071**), probably the remnant of a pedestal base and/or the side walls of a round oven. The reason for the coarseness of this fabric is a little unclear, yet it seems to have been made from a riverine clay full of crushed/ broken mussel shell.

B.9.4 The clay of Fabric K seems only to have been burnt upon its interior surface, and unevenly so (with some of it more or less unfired) to a depth of between 10-30mm. The suggested diameter of the base of this oven or pedestal hearth is around 600mm, whilst the wall thickness is between 50-80mm. A small proportion of this structure

appears to have had the negative trace of small stick supports within it, although none of this was woven (i.e. wattle).

B.9.5 In total six different clay fabric types are identifiable (Fabrics F-K), four of them associated with very small amounts of generic 'daub' (total 64g = Fabrics F, G, H and J), one with a single piece of very well-fired wattle and daub (30g = Fabric I). The remainder is all of the coarse oven Fabric K (24.041kg).

B.9.6 The small fragment of fired wattle and daub with the trace of woven hazel stick sails from context 15050 (Period 2, ditch **15049**, group **15049**) is the only confirmed evidence for the presence of dwelling structures, albeit that this may be from a burnt partition wall rather than from an external wall of a house. There fabrics are described in Table 17.

B.9.7 Four curved fragments of pink-orange fine sandy clay (G) with vesicular vitrification about the convex faces were recovered from Phase 2 Ditch **16065**, Enclosure 15112. These point to some feature that facilitated a high-heat process.

Assessment

B.9.8 In the absence of a full excavation description of context 15592 it is difficult to be any more precise about the identity and significance of this very large amount of broken-up and probably also re-fitting segments of this clay-built structure, other than to say that the initial analysis of this suggests that it is likely to come from a thick-floored oven. A more comprehensive description and interpretation will be possible at the full report stage.

B.9.9 The unusually wide range of other generic daub fabrics, all of which were considerably more strongly fired (many of them actually within fires), yet still in very small amounts, provide little indication of either function or significance. The exception to this is the single fragment of well-fired wattle and daub clay from 15050.

B.9.10 Interestingly there is very little cross-over in fabric types between the two recent East Kettering sites (R20 and R25). The only common fabric between the two sites being Fabric F, a dark-grey reduced fabric with very few inclusions present. The probability is that we are looking at an Iron Age fired clay assemblage.

Further work

B.9.11 The full assemblage should be retained until a full interpretation of the current assemblage, amalgamated with that the wider development, can be achieved.

B.9.12 In all probability there will be little more that can be said of the generic 'daub', although the large mass of poorly fired 'oven' material could be looked at further.

B.9.13 In total, 1-3 more days may be required to complete and write up a report for both sites, depending upon what is required. Illustrations will be minimal, but those recommended could be undertaken, and used alongside photographs.

Clay fabric types

F: VT2 dark grey-pink (greasy) clay fabric with occasional fine VT

G: SVT2 fine-medium sandy pinkish fabric with fine VT

H: SVTSH fine-medium sandy fabric with some shell inclusion

I: S2 compact whitish sandy fabric with rare inclusions and the impression of wattle stick sails

J: SCG2 conglomeratic voidy loose-knit fabric with chalk

K: SGSH crushed shell fragment clay fabric made from a shelly river silt

Context	No. frags	dimension (mm)	Wt (g)	Fabric type	Period	Artefact	Comments
15018	2	20x10x10 + 20x15x10	5	J		daub?	
15050	1	55x30x25	30	I		wattle+daub	ironstone inclusion
15082	1	25x15x15	5	G		daub?	
15115	3	25x20x8 + 25x20x11	12	H		daub?	
15143	1	13x15x10	4	G		daub?	
15537	1	25x23x20	8	J		daub?	
15549	1	30x15x15	5	F?		daub?	re-burnt?
15592(1)	25	90-35 (some re-fitting)	1312	K		oven floor?	broken-up and partly burnt (upper surface) – from *in situ*. structure? (poorly fired)
15592(2)	6	190x140x70 (thick) + 170x120x80 + 125x90x60 + 95x70x60 + 95x60x50	4232	K		oven floor? (poorly fired)	broken-up and partly burnt (upper surface) – from *in situ*. structure NB may be a circular base of up to 600mm diameter and 50-80mm thick
15592(3)	30	largest 160x95x55 + 180x115x80 + 130x90x55(thick) + 150x130x50 + 110x90x75 + 100x85x65 + 85x80x55 +90x70x60	9003	K		oven floor? (poorly fired)	broken-up and partly burnt (upper surface) – from *in situ*. structure NB may be a circular base of up to 600mm diameter and 50-80mm thick NB fabric has rare inclusion of charcoal
15592(4)	8	largest 260x140x70 + 210x135x60 + 160x110x60 + 180x170x100 + 120x70x75 + 120x70x65 + 90x70x50 + 120x40x45	9457	K		oven floor? (poorly fired)	broken-up and partly fired/ red (upper surface) – from *in situ*. structure. Circular base of up to 600mm diam. NB trace of vertical stick holes through this *
15666	1	14	3	G		daub?	
15713	1	20x15x9	3	H		daub?	
15716	1	30x17x10	5	H		daub?	
15724	1	45x30x15	14	H		daub?	
15728	10	10-40	37	K		oven floor?	broken-up partly burnt
16066	4	75x45x15; 50x35x10; 25x25x15; 20x20x10	90	G		Oven-related?	Curved pieces. Vesicular vitrification about the convex faces. Inner is pinkish and hard fired. (TL)
16067	1	20x15x10	4	F		Daub?	(TL)

Table 17: Catalogue of fired clay

APPENDIX C ENVIRONMENTAL ASSESSMENTS

C.1 Human skeletal remains

by Zoë Uí Choileáin

C.1.1 Two deposits of human bone, both unurned were recovered from the Iron Age settlement at Kettering. The bone was recovered from pit **15094** and ditch **15253** respectively.

Methodology

C.1.2 Excavation, processing and analysis of the bone was carried out in accordance with published guidelines (McKinley 2004; Mays *et al*. 2004).

C.1.3 The surface condition of the cortical bone was scored using the McKinley grading system where 0 equals clearly visible surface morphology and 5 equals heavy erosion where all surface morphology is masked (Brickley and McKinley 2004, 16 fig. 6). Age and sex were determined where possible using the standards in Buiksta and Uberlaker (1994).

C.1.4 The presence or absence of dentition was recorded, and the presence of any dental pathologies was recorded but not noted in detail.

Preservation of the Material

C.1.5 The condition of the cortical bone best represents a McKinley grade 2 (Brickley and McKinley 2004, 16 fig. 6). All fragments were primarily affected by rooting.

Assessment

C.1.6 Due to the high fragmentation levels on the inhumated bone there is limited potential for recording information on age, sex and pathology. A rapid scan of the fragments is displayed in Table 18.

Cut	Context	Feature	Skeletal element	Side	Condition	Age
15094	15095	pit	skull; parietal	left	2	adult
15253	15254	ditch	maxilla	left	2	middle adult
15253	15254	ditch	skull- frontal	right	2	adult

Table 18: A summary of human skeletal remains

C.1.7 The bone is fragmented and weathered and is most likely buried in a secondary context. It is not unusual for human bone to be recovered from Iron age contexts with burials more integrated into settlements than their later Roman counterparts. The fragments may have been dislodged from earlier burials and simply placed into the nearest open pit or ditch.

Recommendations for further work

C.1.8 No further analysis of the bone is needed. The material should be considered at full report level as part of the larger assemblage of human bone recovered from sites associated with the development.

C.2 Faunal Remains

By Zoë Uí Choileáin

C.2.1 A total of 539 fragments of countable animal bone were recovered from the Iron Age occupation at Plots R20, R21b and DC3 in Kettering (Table 21). Of these fragments 406 are identifiable to taxon. Of the remaining fragments 133 were large or medium mammal. These have not been discussed further in this report.

C.2.2 The method used to quantify this assemblage was a modified version of that devised by Albarella and Davis (1996). Identification of all bone was attempted but only those that could be clearly narrowed to species were used for NISP (Number of identifiable species) and MNI (minimum number of individuals) counts. Both epiphyses and shaft fragments were identified where possible. Fragmented elements are not counted multiple times which narrows down the assemblage and produces more accurate NISP and MNI results. MNI (minimum number of individuals) was calculated for all species present. MNI estimates the smallest number of animals that could be represented by the elements recovered. Identification of the faunal remains was carried out at Oxford Archaeology East. References to Hillson (1992), Schmid (1972) were used where needed for identification purposes.

C.2.3 The surface condition of the bone was assessed using the 0-5 scale devised by McKinley where 0 represents no erosion and 5 represents the total erosion of the surface bone (2004, 16, Fig. 6).

C.2.4 Material from samples has not been recorded at this stage.

Assessment

C.2.5 The condition of the cortical bone across this assemblage best represents a two to three on the McKinley scale (Brickley and McKinley 2004, 16, Fig. 6) This means that most of the exterior surface is masked by some level of erosion. The fragmentation levels are high with very few bones being complete.

C.2.6 The bulk of this assemblage represents domestic mammals with only three fragments of wild mammal bone recorded.

C.2.7 There are roughly even proportions of cattle and sheep with significantly lower numbers of fragments representing horse, pig and dog. This is fairly common for the Iron Age period.

C.2.8 Both fused and unfused bones are present for both sheep and cattle taxon. This suggests that while the primary use of these animals was for meat consumption some secondary uses such as for wool and milk are likely.

C.2.9 There is a small amount of unfused horse bone (contexts 15500 and 15538; both of which correspond to the smaller Phase 2 enclosures). The unfused pelvis and proximal femur suggest an age of below 3 years. The percentage of horse bone is higher than would be expected for an Iron Age occupation site of this size. It is possible that the unfused material represents on site rearing of horses however the sample size is too small to say this with any real certainty.

C.2.10 These percentages fit with the body of knowledge regarding Iron Age dietary practices.

C.2.11 A partial sheep skeleton was deposited within pit **15419**, which was cut into the top of a furrow (Phase 3). While sheep skeleton deposits are common throughout the Iron Age (Morris, 2008), this is probably a fairly modern deposition.

Taxon	NISP	NISP%	MNI	MNI%
Cattle (*Bos taurus*)	163	40.15	6	28.57
Dog (*Canis familiaris*)	3	0.74	1	4.76
Horse (*Equus callabus*)	71	17.49	4	19.05
pig (*Sus*)	17	4.19	1	4.76
Roe deer (*Capreolus spp.*)	3	0.74	1	4.76
Sheep/goat (*Ovis/Capra*)	149	36.7	8	38.1
Totals	**406**	**100**	**21**	**100**

Table 19: Period one NISP (number of identifiable specimens) and MNI (minimum number of individuals)

Statement of Potential

C.2.12 There is a high potential for aging data to be gathered from this site with 143 fragments of bone providing fusion data and 33 fragments providing tooth wear data. Biometric measurements are possible for eight samples, all having the potential to provide withers height estimates. Sex estimation is possible on two fragments.

C.2.13 Overall, this assemblage has moderate to good potential for providing information on dietary and butchery practice in Iron Age Kettering. There is the potential that horse rearing was undertaken on site.

Recommendations for further work

Description	Performed by	Days
Tooth Wear Recording	Hayley Foster/ Zoë Uí Choileáin	0.25
Biometric measurements	Hayley Foster/ Zoë Uí Choileáin	0.25
Analysis of material from samples	Hayley Foster/ Zoë Uí Choileáin	0.5
Full grey literature report including comparisons to relevant sites	Hayley Foster/ Zoë Uí Choileáin	2

Table 20: Recommendations for further work

Retention, Dispersal and Display

C.2.14 All material should be retained for the archaeological record.

Faunal Remains Catalogue

Cut	Context	Feature	Taxon	Element	Erosion	Count
15005	15006	Ditch	Pig	Axis	3	1
15005	15006	Ditch	Sheep/Goat	Scapula	2	1
15011	15012	Pit	Large mammal	Humerus	2	1
15011	15012	Pit	Sheep/Goat	Humerus	3	1
15011	15012	Pit	Horse	PH1	2	1
15011	15012	Pit	Sheep/Goat	Humerus	3	1
15017	15018	Pit	Horse	Tibia	3	1
15017	15018	Pit	Sheep/Goat	Tibia	3	1
15017	15018	Pit	Horse	Tibia	3	1
15017	15018	Pit	Horse	Loose mand. cheek tooth	3	1
15019	15020	Pit	Medium mammal	Metapodial	1	1
15019	15020	Pit	Sheep/Goat	Loose mand. cheek tooth	1	1
15019	15020	Pit	Cattle	Femur	3	1
15025	15026	Ditch	Large mammal	Metapodial	2	1
15025	15026	Ditch	Medium mammal	Metapodial	2	1
15049	15052	Ditch	Cattle	Loose mand. cheek tooth	3	1
15049	15052	Ditch	Cattle	Loose max. cheek tooth	2	1
15049	15052	Ditch	Sheep/Goat	Metapodial	2	1
15049	15052	Ditch	Horse	Calcaneus	3	1
15073	15075	Ring-ditch	Sheep/Goat	Humerus	3	1
15073	15075	Ring-ditch	Cattle	Loose max. cheek tooth	2	1
15073	15075	Ring-ditch	Sheep/Goat	Loose mand. cheek tooth	2	1
15076	15077	Ditch	Sheep/Goat	Metacarpus	2	1
15079	15081	Ditch	Sheep/Goat	Humerus	1	1
15079	15081	Ditch	Sheep/Goat	PH1	1	1
15079	15081	Ditch	Pig	Loose mand. cheek tooth	1	1
15079	15082	Ditch	Pig	Maxilla	1	1
15079	15082	Ditch	Cattle	Metatarsus	2	1
15094	15095	Pit	Sheep/Goat	Humerus	2	1
15094	15095	Pit	Medium mammal	Tibia	2	1
15094	15095	Pit	Sheep/Goat	Metacarpus	2	1
15094	15095	Pit	Sheep/Goat	Scapula	2	1
15094	15095	Pit	Sheep/Goat	Radius	2	1
15094	15095	Pit	Sheep/Goat	Ulna	2	1
15094	15095	Pit	Sheep/Goat	Mandible	2	1
15094	15095	Pit	Sheep/Goat	Tibia	2	1

Cut	Context	Feature	Taxon	Element	Erosion	Count
15108	15109	Ring-ditch	Large mammal	Metacarpus	2	1
15112	15115	Ditch	Horse	Humerus	2	1
15112	15115	Ditch	Large mammal	Tibia	1	1
15112	15115	Ditch	Cattle	Radius	1	1
15112	15115	Ditch	Large mammal	Mandible	1	1
15112	15115	Ditch	Cattle	Loose max. cheek tooth	1	1
15112	15115	Ditch	Medium mammal	Axis	1	1
15112	15115	Ditch	Sheep/Goat	Mandible	1	1
15112	15115	Ditch	Sheep/Goat	Metacarpus	1	1
15112	15115	Ditch	Sheep/Goat	Metacarpus	1	1
15112	15115	Ditch	Sheep/Goat	Metatarsus	1	1
15112	15116	Ditch	Cattle	Tibia	1	1
15112	15116	Ditch	Cattle	PH2	1	1
15112	15116	Ditch	Cattle	PH2	1	1
15112	15116	Ditch	Cattle	Metacarpus	2	1
15112	15116	Ditch	Large mammal	Mandible	2	1
15112	15116	Ditch	Cattle	Metatarsus	2	1
15112	15116	Ditch	Cattle	PH3	1	1
15112	15116	Ditch	Sheep/Goat	Tibia	2	1
15112	15116	Ditch			1	1
15112	15116	Ditch	Sheep/Goat	Tibia	1	1
15112	15116	Ditch	Medium mammal	Scapula	1	1
15112	15116	Ditch	Medium mammal	Metacarpus	2	1
15112	15116	Ditch	Sheep/Goat	Metacarpus	3	1
15112	15116	Ditch	Sheep/Goat	Loose max. cheek tooth	2	1
15112	15116	Ditch	Medium mammal	Long bone	1	1
15117	15120	Ditch	Large mammal	Scapula	2	1
15117	15120	Ditch	Large mammal	Femur	2	1
15117	15120	Ditch	Cattle	PH1	1	1
15117	15120	Ditch	Cattle	Metatarsus	2	1
15118	15119	Pit	Sheep/Goat	Scapula	2	1
15118	15119	Pit	Medium mammal	Humerus	3	1
15096	15126	Pit	Pig	Mandible	2	1
15096	15126	Pit	Cattle	Humerus	3	1
15096	15126	Pit	Horse	Metatarsus	2	1
15096	15126	Pit	Cattle	Radius	3	1
15096	15126	Pit	Horse	Radius	2	1
15127	15129	Pit	Large mammal	Scapula	3	1
15134	15135	Ditch	Sheep/Goat	Loose mand. cheek tooth	4	1
15142	15143	Ditch	Horse	Radius	4	1
15152	15153	Pit	Cattle	Tibia	2	1
15152	15153	Pit	Large mammal	Mandible	1	1
15152	15153	Pit	Sheep/Goat	Tibia	1	1
15152	15153	Pit	Cattle	Loose max. cheek tooth	2	1

Cut	Context	Feature	Taxon	Element	Erosion	Count
15152	15153	Pit	Sheep/Goat	Loose maxillary row	1	1
15152	15153	Pit	Horse	Incisor	1	5
15152	15153	Pit	Horse	Max. Canine	1	2
15152	15153	Pit	Horse	Loose mandibular row	2	5
15152	15153	Pit	Medium mammal	Radius	2	1
15152	15153	Pit	Medium mammal	Scapula	2	1
15152	15153	Pit	Medium mammal	Metapodial	2	1
15152	15153	Pit	Sheep/Goat	Loose maxillary row	2	1
15152	15155	Pit	Medium mammal	Flat/cubic bone	2	1
15152	15157	Pit			2	1
15152	15157	Pit	Cattle	Metacarpus	3	1
15152	15157	Pit	Horse	Metacarpus	2	1
15152	15157	Pit	Sheep/Goat	Tibia	1	1
15152	15157	Pit	Cattle	Tibia	2	1
15152	15157	Pit	Large mammal	Radius	2	1
15160	15161	Ditch	Cattle	Loose mand. cheek tooth	2	1
15162	15163	Ditch	Large mammal	Humerus	2	1
15162	15163	Ditch	Large mammal	Scapula	3	1
15162	15163	Ditch	Sheep/Goat	Metapodial	1	1
15162	15163	Ditch	Cattle	Mandible	1	1
15162	15163	Ditch	Cattle	Loose mandibular row	1	1
15164	15165	Ditch	Medium mammal	Tibia	3	1
15164	15165	Ditch	Cattle	Metatarsus	2	1
15174	15175	Pit	Cattle	Radius	2	1
15180	15182	Ditch	Sheep/Goat	Maxilla	1	1
15180	15182	Ditch	Cattle	Loose mand. cheek tooth	2	1
15180	15182	Ditch	Medium mammal	Pelvis	1	1
15180	15182	Ditch	Medium mammal	Radius	2	1
15180	15182	Ditch	Sheep/Goat	Metapodial	2	1
15180	15185	Ditch	Cattle	Radius	2	1
15180	15185	Ditch	Cattle	Metacarpus	2	1
15180	15185	Ditch	Large mammal	Mandible	2	1
15180	15185	Ditch	Sheep/Goat	Astragalus	1	1
15180	15185	Ditch	Sheep/Goat	Loose maxillary row	2	2
-	15186	Layer	Large mammal	Metacarpus	2	1
-	15186	Layer	Horse	Astragalus	2	1
15189	15190	Pit	Cattle	Metacarpus	1	1
15189	15190	Pit	Cattle	Mandible	2	1
15191	15192	Pit	Horse	Femur	2	1
15191	15192	Pit	Horse	Mandible	2	1
15191	15192	Pit	Horse	Incisor	2	6
15191	15192	Pit	Large mammal	Mandible	2	1
15191	15192	Pit	Large mammal	Metapodial	2	1
15191	15192	Pit	Cattle	Incisor	2	1

Cut	Context	Feature	Taxon	Element	Erosion	Count
15191	15192	Pit	Horse	Radius	3	1
15204	15205	Pit	Large mammal	Skull	1	1
15204	15205	Pit	Horse	Astragalus	2	1
15204	15205	Pit	Large mammal	Long bone	2	1
15204	15205	Pit	Medium mammal	Scapula	3	1
15204	15205	Pit	Pig	Incisor	2	1
15204	15205	Pit	Cattle	Loose mand. cheek tooth	2	1
15204	15205	Pit	Horse	Mandible	1	1
15204	15205	Pit	Horse	Loose mand. cheek tooth	1	2
15204	15205	Pit	Cattle	Mandible	2	1
15204	15205	Pit	Cattle	Loose mand. cheek tooth	2	1
15204	15205	Pit	Cattle	Loose max. cheek tooth	2	1
15204	15205	Pit	Cattle	Incisor	2	1
15204	15205	Pit	Large mammal	Skull	2	1
15204	15205	Pit	Horse	Pelvis	2	1
15204	15205	Pit	Large mammal	Femur	2	1
15204	15205	Pit	Large mammal	Tibia	2	1
15204	15205	Pit	Cattle	Metapodial	2	1
15204	15205	Pit	Medium mammal	Femur	2	1
15204	15205	Pit	Medium mammal	Metatarsus	2	1
15204	15205	Pit	Medium mammal	Metatarsus	2	1
15204	15205	Pit	Medium mammal	Flat/cubic bone	2	1
15207	15208	Ditch	Sheep/Goat	Radius	3	1
15203	15233	Ditch	Cattle	Metapodial	3	1
15237	15249	Pit	Medium mammal	Femur	3	1
15237	15249	Pit	Large mammal	Tibia	3	1
15237	15249	Pit	Cattle	Loose max. cheek tooth	1	1
15237	15249	Pit	Cattle	Loose mand. cheek tooth	1	1
15238	15250	Pit	Sheep/Goat	Metatarsus	3	1
15239	15251	Pit	Large mammal	Humerus	1	1
15253	15254	Ditch	Large mammal	Skull	2	1
15253	15254	Ditch	Sheep/Goat	Mandible	2	1
15253	15254	Ditch	Horse	Tibia	2	1
15253	15254	Ditch	Horse	Astragalus	3	1
15253	15254	Ditch	Large mammal	Femur	1	1
15253	15254	Ditch	Cattle	Radius	2	1
15253	15254	Ditch	Cattle	Loose max. cheek tooth	1	2
15253	15254	Ditch	Large mammal	Femur	2	1
15253	15254	Ditch	Large mammal	Femur	1	1
15253	15254	Ditch	Cattle	Metatarsus	1	1
15253	15254	Ditch	Cattle	Horncore	1	1

Cut	Context	Feature	Taxon	Element	Erosion	Count
15253	15254	Ditch	Cattle	Horncore	1	1
15253	15254	Ditch	Large mammal	Skull	1	1
15253	15254	Ditch	Cattle	Metacarpus	2	1
15253	15254	Ditch	Horse	Pelvis	1	1
15253	15254	Ditch	Cattle	Femur	2	1
15253	15254	Ditch	Cattle	Loose mand. cheek tooth	1	1
15253	15254	Ditch	Cattle	Loose max. cheek tooth	2	2
15253	15254	Ditch	Medium mammal	Long bone	2	1
15253	15254	Ditch	Cattle	PH2	2	1
15253	15254	Ditch	Dog	Maxilla	1	1
15253	15254	Ditch	Medium mammal	Pelvis	2	1
15253	15254	Ditch	Sheep/Goat	Tibia	2	1
15253	15254	Ditch	Sheep/Goat	Metacarpus	2	1
15253	15254	Ditch	Sheep/Goat	Metacarpus	1	1
15253	15254	Ditch	Sheep/Goat	Metatarsus	1	1
15253	15254	Ditch	Medium mammal	Femur	2	1
15253	15254	Ditch	Sheep/Goat	Scapula	2	1
15253	15254	Ditch	Sheep/Goat	Scapula	2	1
15253	15254	Ditch	Pig	Maxilla	2	1
15253	15254	Ditch	Pig	Loose max. cheek tooth	1	1
15253	15254	Ditch	Cattle	PH1	2	1
15253	15254	Ditch	Horse	Metacarpus	2	1
15253	15254	Ditch	Cattle	Atlas	2	1
15253	15254	Ditch	Large mammal	Pelvis	1	1
15253	15254	Ditch	Sheep/Goat	Metacarpus	2	1
15253	15254	Ditch	Sheep/Goat	Tibia	1	1
15253	15254	Ditch	Sheep/Goat	Metacarpus	3	1
15253	15254	Ditch	Sheep/Goat	Metacarpus	2	1
15253	15254	Ditch	Sheep/Goat	Metatarsus	3	1
15253	15254	Ditch	Large mammal	Radius	2	1
15253	15254	Ditch	Horse	Astragalus	1	1
15253	15254	Ditch	Cattle	Calcaneus	3	1
15253	15254	Ditch	Cattle	Femur	2	1
15253	15254	Ditch	Cattle	Femur	2	1
15253	15254	Ditch	Large mammal	Long bone	2	1
15253	15254	Ditch	Large mammal	Humerus	2	1
15253	15254	Ditch	Cattle	Scapula	2	1
15253	15254	Ditch	Cattle	Scapula	2	1
15253	15254	Ditch	Sheep/Goat	Humerus	3	1
15253	15254	Ditch	Cattle	Mandible	2	1
15253	15254	Ditch	Cattle	Loose max. cheek tooth	2	1
15253	15254	Ditch	Cattle	Loose mand. cheek tooth	2	1
15253	15254	Ditch	Sheep/Goat	Mandible	2	1

Cut	Context	Feature	Taxon	Element	Erosion	Count
15253	15254	Ditch	Sheep/Goat	Mandible	2	1
15253	15254	Ditch	Sheep/Goat	Mandible	2	1
15253	15254	Ditch	Sheep/Goat	Mandible	3	1
15253	15254	Ditch	Sheep/Goat	Mandible	1	1
15261	15262	Pit	Large mammal	Femur	3	1
15270	15271	Ditch	Cattle	Loose max. cheek tooth	2	1
15286	15287	Pit	Pig	Loose mandibular row	3	1
15294	15296	Pit	Cattle	Metapodial	3	1
15297	15298	Ditch	Cattle	Femur	1	1
15297	15299	Ditch	Sheep/Goat	Mandible	3	1
15297	15299	Ditch	Sheep/Goat	Loose max. cheek tooth	1	1
15297	15299	Ditch	Sheep/Goat	Horncore	3	1
15297	15299	Ditch	Sheep/Goat	Radius	2	1
15297	15299	Ditch	Sheep/Goat	Metacarpus	3	1
15324	15325	Ditch	Cattle	Tibia	3	1
15324	15326	Ditch	Pig	Humerus	4	1
15327	15328	Ditch	Horse	Scapula	2	1
15350	15351	Ditch	Horse	Ulna	3	1
15350	15352	Ditch	Cattle	Metacarpus	2	1
15350	15352	Ditch	Cattle	Incisor	2	1
15353	15354	Ditch	Sheep/Goat	Metacarpus	1	1
15353	15355	Ditch	Cattle	Pelvis	1	1
15353	15355	Ditch	Large mammal	Mandible	1	1
15353	15356	Ditch	Cattle	Pelvis	1	1
15353	15356	Ditch	Cattle	Metacarpus	2	1
15353	15356	Ditch	Cattle	Metapodial	2	1
15353	15356	Ditch	Large mammal	Femur	2	1
15353	15356	Ditch	Sheep/Goat	Loose max. cheek tooth	2	1
15353	15357	Ditch	Large mammal	Femur	2	1
15358	15359	Posthole	Horse	Tibia	2	1
15362	15363	Posthole	Cattle	Tibia	2	1
15362	15363	Posthole	Cattle	Loose mand. cheek tooth	1	1
15362	15363	Posthole	Cattle	Incisor	1	1
15362	15363	Posthole	Sheep/Goat	Astragalus	1	1
15362	15363	Posthole	Sheep/Goat	Calcaneus	1	1
15362	15363	Posthole	Sheep/Goat	Tibia	1	1
15364	15365	Surface	Large mammal	Radius	3	1
15364	15365	Surface	Horse	Loose mand. cheek tooth	3	1
15403	15404	Posthole	Medium mammal	Flat/cubic bone	2	1
15415	15416	Ditch	Sheep/Goat	Loose max. cheek tooth	4	1
15419	15420	Pit	Sheep/Goat	Scapula	1	1

Cut	Context	Feature	Taxon	Element	Erosion	Count
15419	15420	Pit	Sheep/Goat	Scapula	1	1
15419	15420	Pit	Sheep/Goat	Femur	1	1
15419	15420	Pit	Sheep/Goat	Tibia	1	1
15419	15420	Pit	Sheep/Goat	Metacarpus	1	1
15419	15420	Pit	Sheep/Goat	Femur	1	1
15419	15420	Pit	Sheep/Goat	Tibia	1	1
15419	15420	Pit	Sheep/Goat	Metatarsus	1	1
15419	15420	Pit	Sheep/Goat	Calcaneus	1	1
15419	15420	Pit	Sheep/Goat	Astragalus	1	1
15419	15420	Pit	Sheep/Goat	Humerus	1	1
15419	15420	Pit	Sheep/Goat	Ulna	1	1
15419	15420	Pit	Sheep/Goat	Ulna	1	1
15419	15420	Pit	Sheep/Goat	PH1	1	2
15419	15420	Pit	Sheep/Goat	PH2	1	2
15419	15420	Pit	Roe Deer	Mandible	1	1
15419	15420	Pit	Roe Deer	Mandible	1	1
15419	15420	Pit	Roe Deer	Maxilla	1	1
15419	15420	Pit	Sheep/Goat	Pelvis	1	1
15419	15420	Pit	Sheep/Goat	Sacrum	1	1
15419	15420	Pit	Sheep/Goat	Sternum	1	1
15419	15420	Pit	Sheep/Goat	Axis	1	1
15419	15420	Pit	Sheep/Goat	Atlas	1	1
15419	15420	Pit	Sheep/Goat	Horncore	1	1
15419	15420	Pit	Sheep/Goat	Horncore	1	1
15451	15452	Ditch	Sheep/Goat	Loose max. cheek tooth	3	2
15461	15462	Ditch	Medium mammal	Long bone	2	1
15465	15466	Ditch	Sheep/Goat	Humerus	2	1
15488	15489	Ditch	Horse	Loose mand. cheek tooth	1	1
15499	15500	Ditch	Horse	Pelvis	2	1
15499	15500	Ditch	Horse	Pelvis	2	1
15499	15500	Ditch	Cattle	Pelvis	3	1
15499	15500	Ditch	Cattle	Pelvis	2	1
15499	15501	Ditch	Cattle	Scapula	2	1
15499	15501	Ditch	Large mammal	Pelvis	1	1
15499	15501	Ditch	Sheep/Goat	Mandible	2	1
15499	15501	Ditch	Horse	Radius	1	1
15509	15510	Ditch	Cattle	Ulna	3	1
15509	15510	Ditch	Sheep/Goat	Loose max. cheek tooth	2	1
15514	15517	Pit	Cattle	Metatarsus	2	1
15524	15525	Ditch	Large mammal	Long bone	3	1
15526	15529	Ditch	Horse	Incisor	2	1
15526	15529	Ditch	Medium mammal	Tibia	2	1
15532	15533	Pit	Cattle	Radius	2	1
15534	15535	Pit	Cattle	PH1	4	1
15534	15535	Pit	Cattle	PH1	3	1

Cut	Context	Feature	Taxon	Element	Erosion	Count
15534	15535	Pit	Cattle	Loose max. cheek tooth	2	1
15534	15535	Pit	Medium mammal	Tibia	3	1
15536	15537	Ditch	Cattle	Scapula	1	1
15536	15538	Ditch	Cattle	Femur	2	1
15536	15538	Ditch	Horse	Incisor	1	1
15536	15538	Ditch	Cattle	Radius	2	1
15536	15538	Ditch	Cattle	Axis	2	1
15536	15538	Ditch	Sheep/Goat	Radius	1	1
15536	15538	Ditch	Sheep/Goat	Loose mand. cheek tooth	1	1
15536	15538	Ditch	Sheep/Goat	Humerus	1	1
15536	15538	Ditch	Cattle	Tibia	1	1
15536	15538	Ditch	Cattle	Femur	2	1
15536	15538	Ditch	Large mammal	Radius	1	1
15536	15538	Ditch	Medium mammal	Tibia	3	1
15536	15538	Ditch	Sheep/Goat	Metapodial	3	1
15536	15538	Ditch	Sheep/Goat	Metapodial	1	1
15536	15538	Ditch	Cattle	Loose maxillary row	2	1
15536	15538	Ditch	Large mammal	Metapodial	3	1
15536	15538	Ditch	Pig	Incisor	2	1
15536	15538	Ditch	Large mammal	Humerus	2	1
15536	15538	Ditch	Horse	Femur	2	1
15536	15538	Ditch	Horse	Loose mandibular row	2	4
15536	15538	Ditch	Cattle	Scapula	1	1
15536	15538	Ditch	Cattle	Scapula	3	1
15536	15538	Ditch	Cattle	Pelvis	1	1
15536	15538	Ditch	Cattle	Pelvis	1	1
15536	15539	Ditch	Cattle	Radius	3	1
15536	15539	Ditch	Cattle	Tibia	3	1
15536	15539	Ditch	Medium mammal	Long bone	3	1
15536	15539	Ditch	Sheep/Goat	Metacarpus	3	1
15540	15541	Ditch	Cattle	Femur	1	1
15540	15541	Ditch	Sheep/Goat	Scapula	1	1
15540	15541	Ditch	Cattle	Loose max. cheek tooth	1	1
15546	15549	Ditch	Cattle	Humerus	2	1
15546	15549	Ditch	Medium mammal	Metapodial	3	1
15546	15549	Ditch	Cattle	Loose mandibular row	3	1
15550	15551	Ditch	Sheep/Goat	Radius	3	1
15556	15562	Ditch	Cattle	Metatarsus	2	1
15556	15562	Ditch	Cattle	Loose mand. cheek tooth	2	1
15556	15562	Ditch	Large mammal	Femur	2	1
15556	15563	Ditch	Cattle	Metacarpus	2	1
15556	15563	Ditch	Cattle	PH1	3	1

Cut	Context	Feature	Taxon	Element	Erosion	Count
15556	15563	Ditch	Medium mammal	Metacarpus	3	1
15567	15565	Pit	Sheep/Goat	Humerus	2	1
15567	15565	Pit	Medium mammal	Pelvis	3	1
15559	15570	Ditch	Cattle	Tibia	2	1
15559	15570	Ditch	Sheep/Goat	Mandible	3	1
15574	15575	Ditch	Sheep/Goat	Loose max. cheek tooth	2	1
15589	15590	Ditch	Large mammal	Femur	2	1
15589	15590	Ditch	Medium mammal	Tibia	2	1
15589	15590	Ditch	Pig	Loose mand. cheek tooth	2	2
15207	15591	Ditch	Horse	Pelvis	1	1
15207	15591	Ditch	Cattle	Humerus	1	1
15207	15591	Ditch	Horse	Radius	2	1
15207	15591	Ditch	Horse	Ulna	2	1
15207	15591	Ditch	Cattle	Mandible	2	1
15207	15591	Ditch	Cattle	PH1	2	1
15207	15591	Ditch	Cattle	Skull	2	1
15207	15591	Ditch	Cattle	Humerus	2	1
15207	15591	Ditch	Cattle	Metacarpus	1	1
15207	15591	Ditch	Medium mammal	Femur	1	1
15207	15591	Ditch	Sheep/Goat	Tibia	2	1
15207	15591	Ditch	Medium mammal	Humerus	2	1
15207	15591	Ditch	Sheep/Goat	Astragalus	1	1
15207	15591	Ditch	Sheep/Goat	Scapula	1	1
15207	15591	Ditch	Large mammal	Rib	2	2
15595	15596	Ditch	Cattle	Mandible	2	1
15595	15597	Ditch	Large mammal	Tibia	3	1
15595	15597	Ditch	Horse	Metacarpus	2	1
15595	15597	Ditch	Pig	Maxilla	3	1
15595	15597	Ditch	Medium mammal	Indet.	2	1
15595	15597	Ditch	Large mammal	Scapula	2	1
15595	15597	Ditch	Medium mammal	Pelvis	2	1
15595	15597	Ditch	Sheep/Goat	Metacarpus	2	1
15595	15597	Ditch	Sheep/Goat	Tibia	3	1
15595	15597	Ditch	Cattle	Mandible	3	1
15606	15607	Ditch	Cattle	Scapula	2	1
15606	15607	Ditch	Sheep/Goat	Mandible	2	1
15606	15608	Ditch	Large mammal	Metapodial	3	1
15606	15609	Ditch	Medium mammal	Humerus	2	1
15611	15612	Ditch	Cattle	Horncore	2	1
15611	15612	Ditch	Large mammal	Radius	2	1
15611	15612	Ditch	Sheep/Goat	Tibia	2	1
15611	15613	Ditch	Large mammal	Long bone	2	1
15621	15623	Ditch	Cattle	Ulna	2	1
15621	15623	Ditch	Sheep/Goat	Humerus	2	1
15621	15623	Ditch	Medium mammal	Metacarpus	3	1
15621	15623	Ditch	Cattle	Incisor	3	1

Cut	Context	Feature	Taxon	Element	Erosion	Count
15621	15623	Ditch	Sheep/Goat	Metatarsus	3	1
15621	15623	Ditch	Dog	Maxilla	2	1
15624	15626	Ditch	Large mammal	Femur	2	1
15629	15630	Ditch	Horse	PH1	2	1
15629	15630	Ditch	Cattle	Ulna	3	1
15629	15630	Ditch	Large mammal	Mandible	1	1
15629	15630	Ditch	Medium mammal	Femur	2	1
15629	15630	Ditch	Sheep/Goat	Mandible	2	1
15633	15634	Ditch	Sheep/Goat	Metacarpus	3	1
15636	15676	Ditch	Sheep/Goat	Femur	1	1
15601	15640	Ditch	Medium mammal	Skull	2	1
15601	15640	Ditch	Sheep/Goat	Loose maxillary row	2	2
15601	15640	Ditch	Cattle	Loose mand. cheek tooth	2	1
15601	15640	Ditch	Large mammal	Humerus	2	1
15645	15646	Ditch	Large mammal	Scapula	2	1
15645	15646	Ditch	Cattle	Loose mand. cheek tooth	2	1
15648	15649	Ditch	Medium mammal	Femur	3	1
15648	15650	Ditch	Cattle	Metacarpus	3	1
15657	15658	Gully	Large mammal	Tibia	2	1
15655	15662	Ditch	Medium mammal	Pelvis	2	1
15663	15664	Ditch	Medium mammal	Skull	3	1
15665	15666	Ditch	Cattle	Metatarsus	2	1
15665	15666	Ditch	Sheep/Goat	Loose mand. cheek tooth	1	1
15667	15668	Ditch	Horse	Tibia	3	1
15667	15668	Ditch	Pig	Humerus	3	1
15667	15668	Ditch	Sheep/Goat	Radius	3	1
15667	15668	Ditch	Cattle	Radius	3	1
15669	15670	Ditch	Cattle	Femur	2	1
15669	15670	Ditch	Cattle	PH3	1	1
15669	15670	Ditch	Cattle	Mandible	2	1
15669	15670	Ditch	Cattle	Mandible	2	1
15669	15670	Ditch	Horse	Loose mand. cheek tooth	2	1
15669	15670	Ditch	Cattle	Metatarsus	2	1
15669	15670	Ditch	Large mammal	Rib	2	1
15669	15670	Ditch	Medium mammal	Atlas	2	1
15669	15670	Ditch	Sheep/Goat	Metatarsus	2	1
15669	15670	Ditch	Sheep/Goat	Radius	2	1
15669	15670	Ditch	Sheep/Goat	Radius	1	1
15669	15670	Ditch	Sheep/Goat	Radius	3	1
15669	15670	Ditch	Medium mammal	Humerus	2	1
15669	15670	Ditch	Medium mammal	Femur	3	1
15669	15670	Ditch	Medium mammal	Skull	2	1
15669	15670	Ditch	Cattle	Femur	2	1
15669	15670	Ditch	Cattle	Radius	2	1

Cut	Context	Feature	Taxon	Element	Erosion	Count
15669	15670	Ditch	Medium mammal	Tibia	2	1
15366	15677	Ditch	Sheep/Goat	Radius	2	1
15366	15677	Ditch	Sheep/Goat	Metatarsus	2	1
15366	15677	Ditch	Sheep/Goat	Tibia	2	1
15366	15677	Ditch	Sheep/Goat	Loose mand. cheek tooth	2	1
15366	15678	Ditch	Cattle	Metacarpus	2	1
15366	15678	Ditch	Cattle	Loose mand. cheek tooth	2	1
15690	15691	Gully	Horse	Metapodial	3	1
15690	15691	Gully	Medium mammal	Scapula	2	1
15703	15704	Ditch	Large mammal	Scapula	2	1
15703	15705	Ditch	Horse	Metapodial	2	1
15703	15705	Ditch	Sheep/Goat	Loose mand. cheek tooth	1	1
15707	15708	Ditch	Cattle	Horncore	1	1
15707	15710	Ditch	Sheep/Goat	Metapodial	3	1
15711	15712	Ditch	Medium mammal	Scapula	2	1
15711	15715	Ditch	Cattle	Metatarsus	2	1
15711	15715	Ditch	Medium mammal	Femur	1	1
15711	15715	Ditch	Cattle	PH3	1	1
15711	15715	Ditch	Medium mammal	Tibia	2	1
15711	15715	Ditch	Pig	Mandible	1	1
15711	15716	Ditch	Cattle	Mandible	3	1
15711	15716	Ditch	Pig	Mandible	2	1
15711	15716	Ditch	Cattle	Loose mand. cheek tooth	1	5
15711	15716	Ditch	Cattle	Metatarsus	2	1
15711	15716	Ditch	Pig	Tibia	1	1
15711	15716	Ditch	Cattle	Metacarpus	2	1
15711	15716	Ditch	Cattle	Femur	3	1
15711	15716	Ditch	Cattle	Horncore	2	1
15711	15716	Ditch	Sheep/Goat	Scapula	2	1
15711	15716	Ditch	Medium mammal	Scapula	2	1
15711	15716	Ditch	Medium mammal	Femur	3	1
15711	15716	Ditch	Medium mammal	Femur	3	1
15711	15716	Ditch	Sheep/Goat	Metatarsus	1	1
15711	15716	Ditch	Sheep/Goat	Metacarpus	1	1
15711	15716	Ditch	Medium mammal	Metapodial	1	1
15717	15718	Pit	Cattle	Loose mand. cheek tooth	2	1
15719	15720	Ditch	Cattle	Skull	2	1
15719	15720	Ditch	Large mammal	Scapula	2	1
15719	15720	Ditch	Cattle	PH2	2	1
15723	15724	Ditch	Cattle	PH2	3	1
15723	15724	Ditch	Medium mammal	Scapula	3	1
15723	15724	Ditch	Sheep/Goat	Loose max. cheek tooth	2	1

Cut	Context	Feature	Taxon	Element	Erosion	Count
15725	15726	Ring-ditch	Cattle	Metatarsus	3	1
15731	15732	Ring-ditch	Medium mammal	Metacarpus	3	1
15731	15732	Ring-ditch	Medium mammal	Pelvis	3	1
15731	15732	Ring-ditch	Sheep/Goat	Mandible	3	1
15589	15733	Ditch	Horse	PH1	2	1
15589	15733	Ditch	Large mammal	Humerus	2	1
15589	15733	Ditch	Cattle	Mandible	3	1
15589	15733	Ditch	Sheep/Goat	Scapula	3	1
15589	15733	Ditch	Medium mammal	Tibia	3	1
15589	15733	Ditch	Sheep/Goat	Mandible	2	1
15589	15733	Ditch	Sheep/Goat	Mandible	3	1
15589	15733	Ditch	Sheep/Goat	Loose mandibular row	1	1
15589	15733	Ditch	Large mammal	Rib	3	1
15703	15705	hand	Sheep/Goat	Scapula	2	1
16033	16034	Ditch	horse	Loose mand cheek tooth	3	1
16037	16038	Ditch	Sheep/Goat	Loose mand cheek tooth	4	1
16037	16038	Ditch	Sheep/Goat	Loose max cheek tooth	4	1
16037	16038	Ditch	Medium mammal	Radius	4	1
16039	16040	Ditch	Large mammal	Indet	4	1
16045	16046	Ditch	Cattle	Tibia	4	1
16045	16046	Ditch	Cattle	Loose mand cheek tooth	4	2
16045	16046	Ditch	Cattle	Loose max cheek tooth	4	1
16047	16048	Ditch	Cattle	Calcaneus	4	1
16047	16048	Ditch	Cattle	Loose mand cheek tooth	4	1
16051	16053	Ditch	Dog	Mandible	1	1
16051	16053	Ditch	Sheep/Goat	Loose mand cheek tooth	1	1
16051	16053	Ditch	Medium mammal	Femur	2	1
16058	10659	Ditch	horse	Maxilla	4	1
16058	10659	Ditch	Cattle	Loose max cheek tooth	4	1
16058	16059	Ditch	Cattle	Metacarpus	4	1
16065	16066	Ditch	Cattle	Loose mandibular row	4	1
16065	16067	Ditch	Cattle	Loose mand cheek tooth	4	1
16065	16067	Ditch	Medium mammal	Indet	4	1
16072	16073	Ditch	Large mammal	Indet	4	3
16081	16092	Ditch	Horse	Tibia	3	1
16123	16129	Ditch	Sheep/Goat	Loose mand cheek tooth	4	1

Cut	Context	Feature	Taxon	Element	Erosion	Count
16138	16139	Ditch	Horse	Loose mand cheek tooth	4	1

Table 21: Catalogue of faunal remains by context

C.3 Environmental Samples

By Martha Craven

Introduction

C.3.1 Material from samples has not been recorded at this stage.

C.3.2 A total of 71 bulk samples were taken from features within the excavated area at the site. The samples were taken from a variety of feature that date from the Middle to Late Iron Age. The purpose of this assessment is to determine whether plant remains and environmental indicators such as molluscs are present, their mode of preservation and what information can be inferred about such things as diet, economy, agricultural practices and trade.

Methodology

C.3.3 Each sample was processed by tank flotation using modified Sīraf-type equipment for the recovery of preserved plant remains, dating evidence and any other artefactual evidence that might be present. The floating component (flot) of the samples was collected in a 0.3mm nylon mesh and the residue was washed through 10mm, 5mm, 2mm and a 0.5mm sieve.

C.3.4 A magnet was dragged through each residue fraction for the recovery of magnetic residues prior to sorting for artefacts. Any artefacts present were noted and reintegrated with the hand-excavated finds.

C.3.5 The dried flots were subsequently sorted using a binocular microscope at magnifications up to x 60 and an abbreviated list of the recorded remains are presented in Tables 22 and 23.

C.3.6 Identification of plant remains is with reference to the Digital Seed Atlas of the Netherlands (Cappers *et al.* 2006) and OAE's reference collection. Nomenclature is according to Zohary and Hopf (2000) for cereals and Stace (2010) for other plants. The identification of cereals has been based on the characteristic morphology of the grains and chaff as described by Jacomet (2006).

Quantification

C.3.7 For the purpose of this assessment, items such as seeds and cereal grains have been scanned and recorded qualitatively according to the following categories:

= 1-5, ## = 6-25, ### = 26-100, #### = 100+ specimens

C.3.8 Items that cannot be easily quantified such as molluscs have been scored for abundance:

+ = rare, ++ = moderate, +++ = frequent, ++++ = abundant, +++++ = super abundant

Results

C.3.9 The botanical material from this site consists of carbonised (charred) and waterlogged plant remains.

Plot R20

C.3.10 A small number of samples from this site contain small to moderate quantities of carbonised cereal grains. The cereal grains consist of wheat (*Triticum* sp.), barley (*Hordeum vulgare*) and grains that were too poorly preserved to identify. Sample 2067, fill 15713 of Phase 2 ditch **15711**, is the most abundant sample containing three spelt/emmer (*Triticum dicoccum/spelta*) grains, four barley grains, and five indeterminate. Emmer and spelt has not been differentiated in this assessment as they can look quite similar morphologically; particularly as charring and post-depositional processes can distort the appearance of the grains (Jacomet 2006).

C.3.11 Many of the samples also contain weed seeds which include grass (*Poaceae*), dock (*Rumex sp*.), medick/clover (*Trifolium Medicago sp*.) and possible fairy flax (*c.f. Linum catharticum*). Sample 2046, fill 15661 of Phase 2 ditch **15655**, is notable as it contains frequent cleaver (*Galium aparine*) seeds. This sample also contains a few fragments of unidentified charred material, which may be burnt food or dung. Several samples from the site contain seeds of waterlogged rushes (*Juncus sp*.).

C.3.12 The samples vary quite considerably in the quantities of charcoal recovered. The largest quantity of charcoal recovered is from Sample 2002, fill 15020 of Phase 2 pit **15019** with a total of 20ml.

C.3.13 The majority of the samples from this site contain small to moderate quantities of relatively well-preserved molluscs.

Plot DC3

C.3.14 Sample 4202, 16066 of ditch **16065,** contains a small quantity of carbonised spelt/emmer wheat and grains too poorly preserved to identify. Occasional carbonised spelt/emmer glume bases were also recovered from the sample.

Assessment

C.3.15 The relatively small quantity of plant remains recovered from these samples is not indicative of deliberate deposition and instead is likely to represent a background scatter of refuse from the surrounding area.

C.3.16 The botanical assemblage is similar in composition to other Iron Age sites in the area. The cereal remains recovered from the Middle Iron Age site of 'Housing Area 3B, Mawsley New Village, Kettering' similarly consist of barley, emmer and spelt grains (Robinson, 2002). Murphy (1981) suggests that this is typical of Iron Age agriculture in most of lowland Britain.

C.3.17 The presence of grass and cleaver seeds in the site's assemblage is indicative of cultivated and arable environments. The frequent occurrence of cleavers in Sample 2046 may be explained by the plant producing approximately 300-400 seeds at a time (Hanf 1983). These seeds are likely to have been accidentally harvested alongside

cereals and then disposed of through burning. The presence of waterlogged rushes in several of the samples is indicative of a damp/wetland habitat.

C.3.18 The small quantity of chaff within ditch **16065**, Plot DC3, suggests that cereal processing may have taken place within this area albeit possibly not on a large scale. A fragment of a quern stone was found within nearby pit **15293** providing further evidence for crop processing taking place.

C.3.19 The samples from this site have been fully processed, assessed, and warrant no further work.

Sample No.	Context No.	Cut No.	Area No.	Feature Type	Volume Processed (L)	Flot Volume (ml)	Cereals	Weed Seeds	Wetland/Aquatic Plants	Indet. Macro	Ostracods	Molluscs	Charcoal Volume (ml)	Pottery	Large mammal Bones	Flint Debitage
2000	15012	15011	R20	Pit	16	20	0	0	0	0	0	'++	<1	#	0	0
2001	15018	15017	R20	Pit	16	20	#	0	0	0	0	'++	<1	0	0	0
2002	15020	15019	R20	Pit	16	40	#	0	0	0	0	'++	20	0	0	0
2003	15062	15059	R20	Pit	12	5	0	0	0	0	0	'+	<1	0	0	0
2004	15080	15079	R20	Ditch	12	5	0	0	0	0	0	'++	<1	0	0	0
2005	15093	15092	R20	Pit	8	20	0	0	0	0	0	'+	0	0	0	0
2006	15095	15094	R20	Pit	14	5	0	0	0	0	0	'++	6	#	0	0
2007	15119	15118	R20	Pit	16	10	0	0	0	0	0	'++	0	#	#	0
2008	15126	15096	R20	Pit	8	5	0	0	0	0	0	'+	<1	0	#	0
2009	15129	15127	R20	Pit	8	10	0	0	0	0	0	'+	0	0	0	0
2010	15153	15152	R20	Pit	10	10	0	0	#	0	0	'+	<1	#	#	0
2011	15157	15152	R20	Pit	14	10	0	0	0	0	0	'++	0	0	0	0
2012	15172	15170	R20	Pit	8	20	0	0	#	0	0	'++	<1	0	0	0
2013	15192	15191	R20	Other Cut	16	30	0	0	0	0	0	'++	<1	0	0	0
2014	15208	15207	R20	Ring-ditch	16	40	#f	#	0	0	0	'+++	<1	0	0	0
2015	15215	15214	R20	Pit	6	20	0	0	0	0	0	'+	0	0	0	0
2016	15219	15218	R20	Posthole	4	10	0	0	0	0	0	'+	0	0	0	0
2017	15229	15227	R20	Pit	6	10	0	0	0	0	0	'+	0	#	0	0
2018	15241	15240	R20	Posthole	14	20	0	0	0	0	0	'++	1	0	0	0
2019	15245	15244	R20	Posthole	16	40	0	0	0	0	0	'+++	5	0	0	0

Sample No.	Context No.	Cut No.	Area No.	Feature Type	Volume Processed (L)	Flot Volume (ml)	Cereals	Weed Seeds	Wetland/Aquatic Plants	Indet. Macro	Ostracods	Molluscs	Charcoal Volume (ml)	Pottery	Large mammal Bones	Flint Debitage
2020	15247	15246	R20	Posthole	17	90	0	#	0	0	0	'+	1	0	0	#
2021	15254	15253	R20	Ditch	8	10	0	0	0	0	0	'++	<1	0	0	0
2022	15260	15258	R20	Pit	16	20	0	0	0	0	0	'++	0	0	0	0
2023	15298	15297	R20	Ditch	14	5	0	0	0	0	0	'+++	1	#	0	0
2024	15354	15353	R20	Ditch	16	5	0	0		0	0	0	0	0	0	0
2025	15363	15362	R20	Posthole	16	10	0	0	#	0	0	+	0	0	0	0
2026	15359	15358	R20	Posthole	16	5	0	0	0	0	0	++	0	0	0	0
2027	15410	15409	R20	Pit	8	5	0	0	0	0	0	+	0	0	0	0
2028	15404	15403	R20	Posthole	13	20	#	0	0	0	0	++	<1	0	0	0
2029	15406	15405	R20	Posthole	8	1	0	0	0	0	0	+	0	0	0	0
2030	15423	15422	R20	Posthole	16	10	#	0	0	0	0	++	0	0	0	0
2031	15425	15424	R20	Posthole	12	10	#	0	0	0	0	++	0	0	0	0
2032	15442	15441	R20	Pit	8	10	0	0	0	0	0	0	<1	0	0	0
2033	15498	15496	R20	Pit	8	5	0	0	0	0	0	++	9	0	0	0
2034	15531	15530	R20	Pit	8	1	0	0	0	0	0	++	3	0	0	0
2035	15533	15532	R20	Pit	16	5	0	0	0	0	0	++	<1	0	0	0
2036	15541	15540	R20	Ditch	16	10	0	0	0	0	0	++	<1	0	0	0
2037	15543	15542	R20	Stakehole	8	5	0	0	0	0	0	++	<1	0	0	0
2038	15545	15544	R20	Posthole	13	10	0	0	0	0	0	0	0	0	0	0
2039	15528	15526	R20	Ditch	11	10	#	0	0	0	0	++	<1	0	0	0

Sample No.	Context No.	Cut No.	Area No.	Feature Type	Volume Processed (L)	Flot Volume (ml)	Cereals	Weed Seeds	Wetland/Aquatic Plants	Indet. Macro	Ostracods	Molluscs	Charcoal Volume (ml)	Pottery	Large mammal Bones	Flint Debitage
2040	15577	15576	R20	Posthole	8	5	0	0	0	0	0	++	3	0	0	0
2041	15579	15578	R20	Stokehole	16	40	0	0	0	0	0	+++	2	#	0	0
2042	15581	15580	R20	Stokehole	16	10	0	0	0	0	0	+	1	0	0	0
2043	15583	15582	R20	Ditch	16	120	0	0	0	0	0	+	<1	0	0	0
2044	15585	15584	R20	Ditch	17	100	0	0	0	0	0	++	<1	0	0	0
2045	15587	15586	R20	Ditch	16	20	0	0	0	0	0	+	<1	0	0	0
2046	15661	15655	R20	Ditch	17	50	#	##	0	#	0	+++	1	#	0	0
2047	15638	15588	R20	Natural Feature	18	40	0	0	0	0	0	++++	0	0	0	0
2048	15622	15621	R20	Ditch	18	5	0	0	0	0	0	++	0	0	0	0
2049	15095	15094	R20	Pit	16	10	0	0	0	0	0	+++	2	#	0	0
2050	15119	15118	R20	Pit	14	20	0	0	0	0	0	+++	<1	0	#	0
2051	15664	15663	R20	Ditch	16	20	0	0	0	0	0	++	<1	0	0	0
2052	15668	15667	R20	Ditch	16	10	0	0	0	0	0	++	<1	0	0	0
2053	15670	15669	R20	Ditch	12	10	0	0	0	0	0	++	<1	0	0	0
2054	15672	15671	R20	Posthole	8	20	0	0	0	0	0	+	0	0	0	0
2055	15126	15096	R20	Pit	6	5	0	0	+	0	0	0	0	0	0	0
2056	15678	15636	R20	Ditch	17	90	#	0	0	0	0	+++	<1	0	0	0
2057	15676	15636	R20	Ditch	16	10	0	0	0	0	0	+	0	0	#	0
2058	15115	15112	R20	Ditch	16	10	#f	#f	#	0	+	++	<1	0	0	0
2059	15181	15180	R20	Ditch	16	5	#	0	#	0	0	+	<1	0	0	0

Sample No.	Context No.	Cut No.	Area No.	Feature Type	Volume Processed (L)	Flot Volume (ml)	Cereals	Weed Seeds	Wetland/Aquatic Plants	Indet. Macro	Ostracods	Molluscs	Charcoal Volume (ml)	Pottery	Large mammal Bones	Flint Debitage
2060	15122	15121	R20	Ditch	16	10	0	0	#	0	0	++	0	0	#	0
2061	15691	15690	R20	Ditch	18	10	0	0	#	0	0	++	0	0	0	0
2062	15700	15699	R20	Ditch	16	10	0	0	0	0	0	+++	<1	0	0	0
2063	15704	15703	R20	Ditch	16	5	0	0	0	0	0	++	<1	0	0	0
2064	15234	15203	R20	Ditch	14	5	0	0	0	0	0	+	0	0	0	0
2065	15050	15049	R20	Ditch	16	5	0	0	0	0	+	+	0	0	0	0
2066	15712	15711	R20	Ditch	16	5	0	0	0	0	0	++	<1	0	0	0
2067	15713	15711	R20	Ditch	14	10	##	#	0	0	0	+	1	#	0	0
2068	15730	15729	R20	Ditch	16	50	#	0	0	0	0	+	0	0	#	0
2069	15592	15207	R20	Ring-ditch	8	10	0	0	0	0	0	+++	2	#	0	0
2070	15537	15536	R20	Ditch	17	10	0	0	0	0	0	+++	0	0	0	0

Table 223: Environmental samples from Plot R20

Sample No.	Context No.	Cut No.	Area No.	Feature Type	Volume Processed (L)	Flot Volume (ml)	Cereals	Chaff	Snail shells	Charcoal Volume (ml)	Pottery
4202	16066	16065	DC3	Ditch	16	50	#	#	++	5	#

Table 224: Environmental samples from Plot DC3

APPENDIX D RISK LOG

D.1.1 The table below lists potential risks for the PX analysis work.

No.	Description	Probability	Impact	Countermeasures	Estimated time/costs	Owner	Date updated
1	Specialists unable to deliver analysis report due to over running work programmes/ ill health/other problems	Medium	Variable	OA has access to a large pool of specialist knowledge (internal and external) which can be used if necessary	Variable	TL TP EP	Jan. 2021
2	Non-delivery of full report due to field work pressures/ management pressure on co-authors	Medium	Medium-high	Liaise with OA management team	Variable	TL TP EP	Jan. 2021

Table 23: Risk log

APPENDIX E HEALTH AND SAFETY

E.1.1 All OA post-excavation work will be carried out under relevant Health and Safety legislation, including the Health and Safety at Work Act (1974). A copy of the Health and Safety Policy can be supplied. The nature of the work means that the requirements of the following legislation are particularly relevant:

- Workplace (Health, Safety and Welfare) Regulations 1992 – offices and finds processing areas
- Manual Handling Operations Regulations (1992) – transport: bulk finds and samples
- Health and Safety (Display Screen Equipment) Regulations (1992) – use of computers for word-processing and database work
- COSSH (1988) – finds conservation and environmental processing/analysis

E.1.2 During works legislation was introduced due to the Covid-19 pandemic, all work on site conformed to the guidelines regarding Covid set out by OA, the Construction Leadership Council and the UK government. These standards, or those superseding them, will be maintained through the post-excavation process.

APPENDIX F OASIS REPORT FORM

Project Details

OASIS Number	oxfordar3-411809
Project Name	Plots R20 and R21, Land East of Kettering, Northamptonshire

Start of Fieldwork	3rd March 2020	End of Fieldwork	3rd June 2020
Previous Work	yes	Future Work	Unknown

Project Reference Codes

Site Code	XNNEKE20a	Planning App. No.	Pre-application
HER Number	ENN109788	Related Numbers	

Prompt	NPPF
Development Type	Mixed
Place in Planning Process	Pre-application

Techniques used (tick all that apply)

☐	Aerial Photography – interpretation	☒	Open-area excavation	☐	Salvage Record
☐	Aerial Photography - new	☐	Part Excavation	☐	Systematic Field Walking
☐	Field Observation	☐	Part Survey	☐	Systematic Metal Detector Survey
☐	Full Excavation	☐	Recorded Observation	☐	Test-pit Survey
☐	Full Survey	☐	Remote Operated Vehicle Survey	☐	Watching Brief
☐	Geophysical Survey	☐	Salvage Excavation		

Monument	Period
Pit	Middle Iron Age (- 400 to - 100)
Ditch	Middle Iron Age (- 400 to - 100)
Enclosure	Middle Iron Age (- 400 to - 100)
Ditch	Medieval (1066 to 1540)
Furrow	Post Medieval (1540 to 1901)
Pit	Uncertain
Ditch	Uncertain
Ditch	Late Prehistoric (- 4000 to 43)

Object	Period
Metalwork	Uncertain
Pottery	Middle Iron Age (- 400 to - 100)
Pottery	Medieval (1066 to 1540)
Pottery	Post Medieval (1540 to 1901)
Glass	Post Medieval (1540 to 1901)
Slag	Iron Age (- 800 to 43)
Human Remains	Iron Age (- 800 to 43)
Faunal Remains	Iron Age (- 800 to 43)
CBM	Roman (43 to 410)
Flint/Burnt Flint	Mesolithic (- 10 000 to - 4000)
Flint/Burnt Flint	Bronze Age (- 2500 to - 700)
Worked & Burnt Stone	Iron Age (- 800 to 43)
Fired Clay	Iron Age (- 800 to 43)

Project Location

County	Northamptonshire
District	Kettering
Parish	Barton Seagrave
HER office	Northampton
Size of Study Area	2.22ha
National Grid Ref	SP 89740 77059

Address (including Postcode)

Land East of Kettering,
Cranford Road,
Kettering,
Northamptonshire

Project Originators

Organisation	OAE
Project Brief Originator	Lesley-Ann Mather
Project Design Originator	Nick Gilmour
Project Manager	Nick Gilmour
Project Supervisor	Tim Lewis

Project Archives

	Location	ID
Physical Archive (Finds)	NARC	ENN109788
Digital Archive	OAE	ENN109788
Paper Archive	NARC	ENN109788

Physical Contents	Present?	Digital files associated with Finds	Paperwork associated with Finds
Animal Bones	☒	☒	☐
Ceramics	☒	☒	☐
Environmental	☒	☒	☐
Glass	☒	☒	☐
Human Remains	☒	☒	☒
Industrial	☒	☒	☐
Leather	☐	☐	☐
Metal	☒	☒	☐
Stratigraphic		☐	☐
Survey		☐	☐
Textiles	☐	☐	☐
Wood	☐	☐	☐
Worked Bone	☐	☐	☐
Worked Stone/Lithic	☒	☒	☐
None	☐	☐	☐
Other	☐	☐	☐

Digital Media		Paper Media	
Database	☒	Aerial Photos	☒
GIS	☒	Context Sheets	☒
Geophysics	☐	Correspondence	☐
Images (Digital photos)	☒	Diary	☐

Illustrations (Figures/Plates)	☒	Drawing	☒
Moving Image	☐	Manuscript	☐
Spreadsheets	☒	Map	☐
Survey	☒	Matrices	☐
Text	☒	Microfiche	☐
Virtual Reality	☐	Miscellaneous	☐
		Research/Notes	☐
		Photos (negatives/prints/slides)	☐
		Plans	☐
		Report	☒
		Sections	☒
		Survey	☒

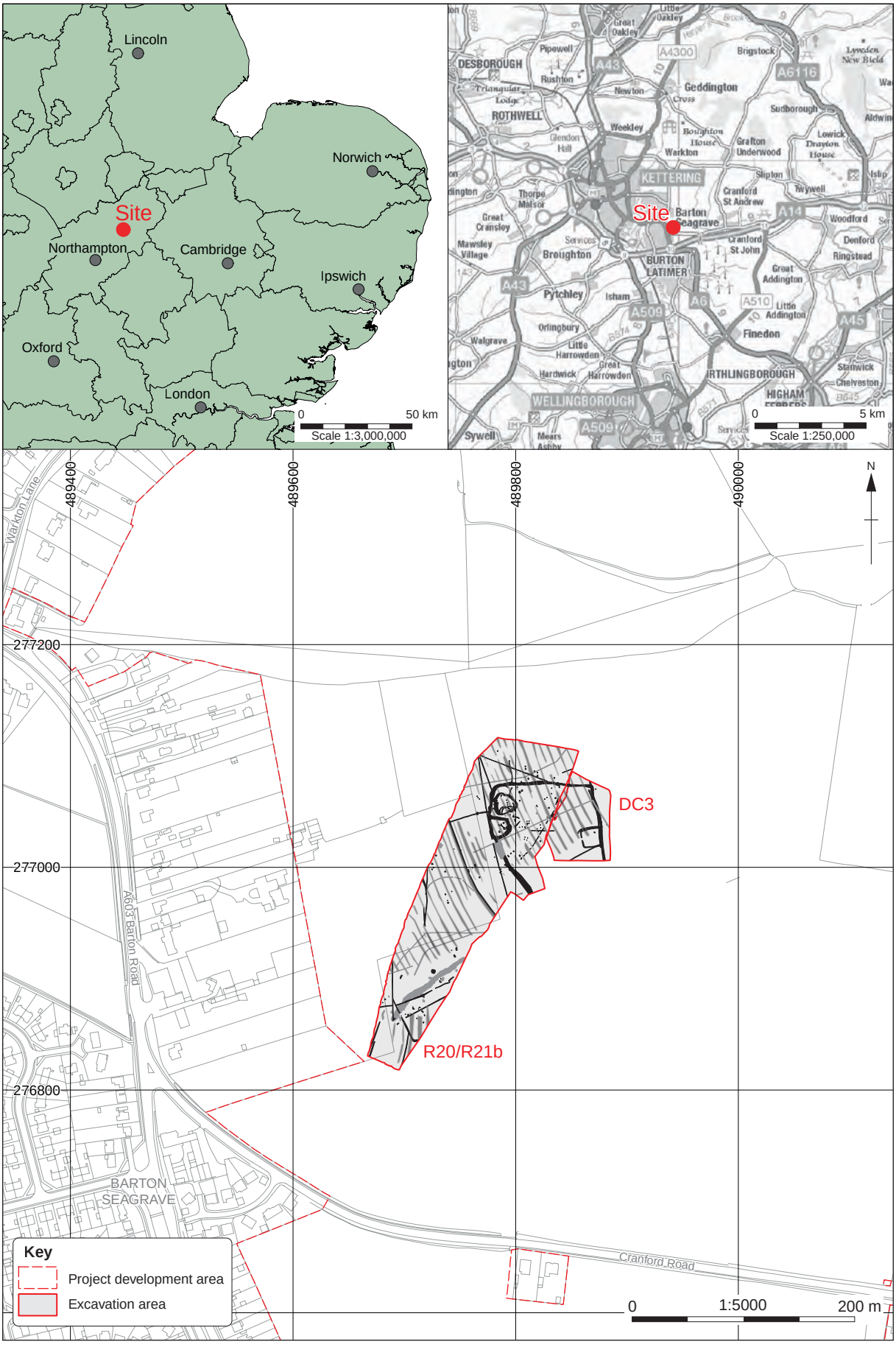

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Figure 1: Site location

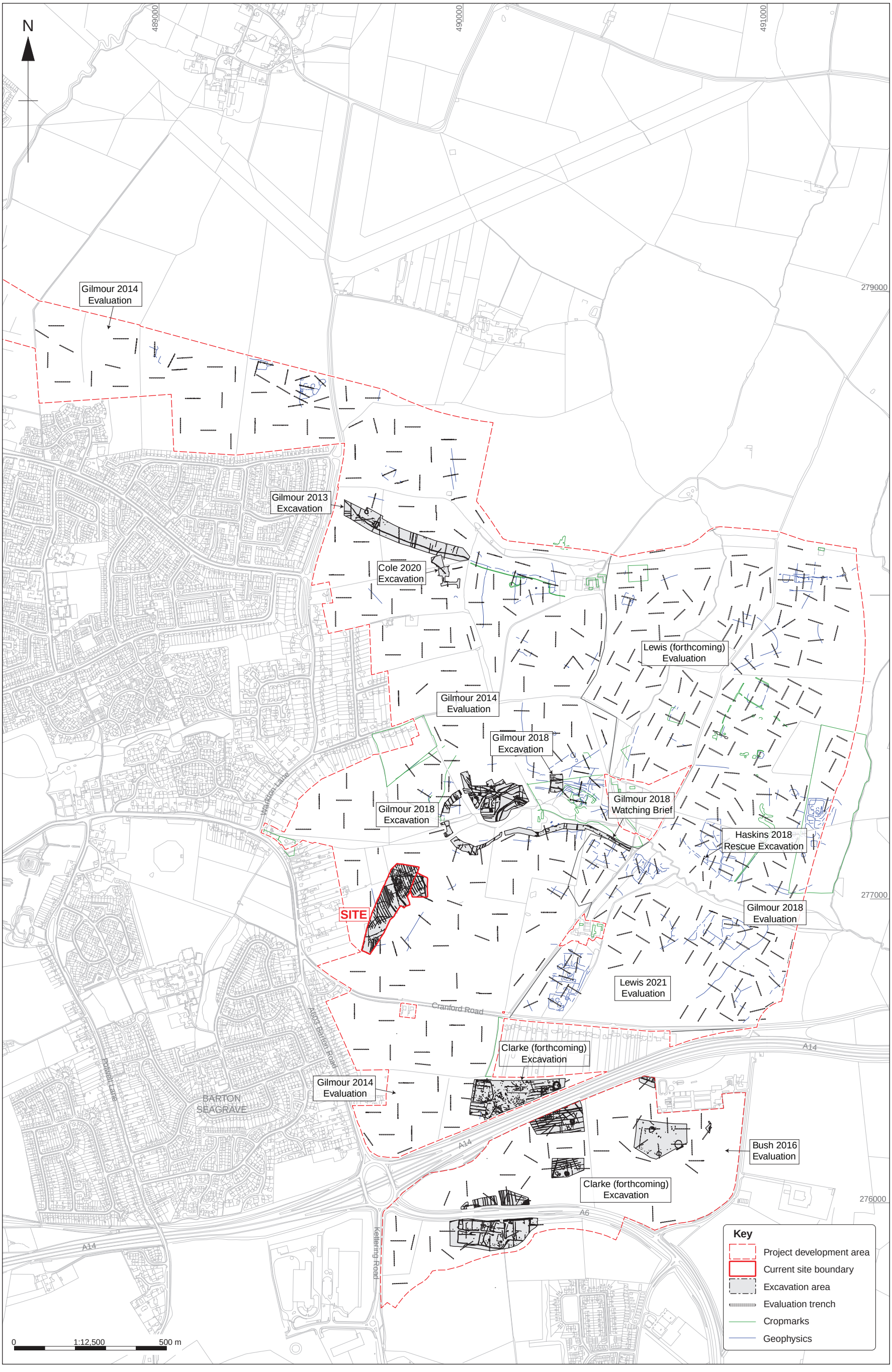


Figure 2: Location with relation to previous works

Figure 3: R20/R21b all features plan

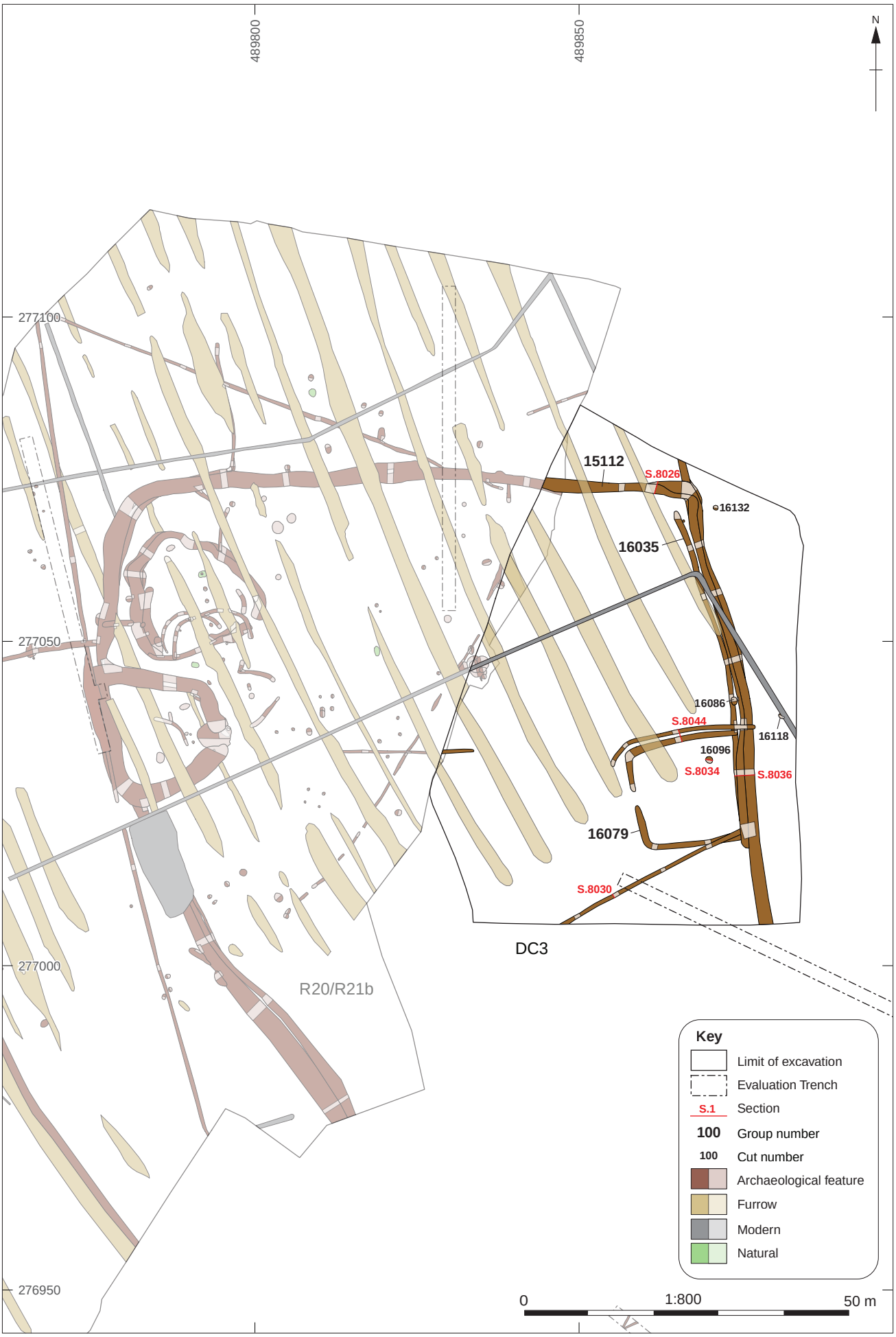


Figure 4: DC3 all features plan

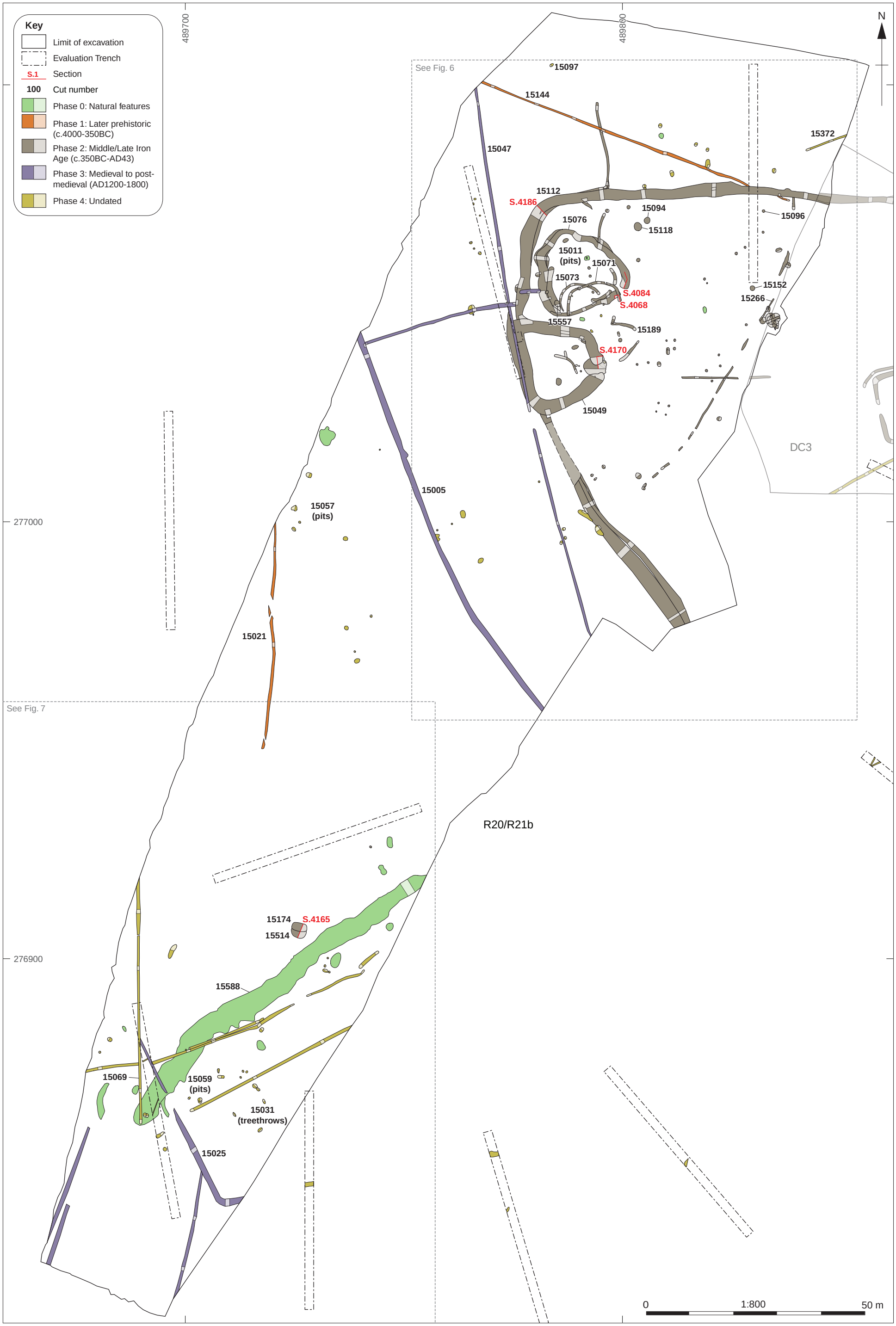


Figure 5: R20/R21b preliminary phase plan

Figure 6: North detail

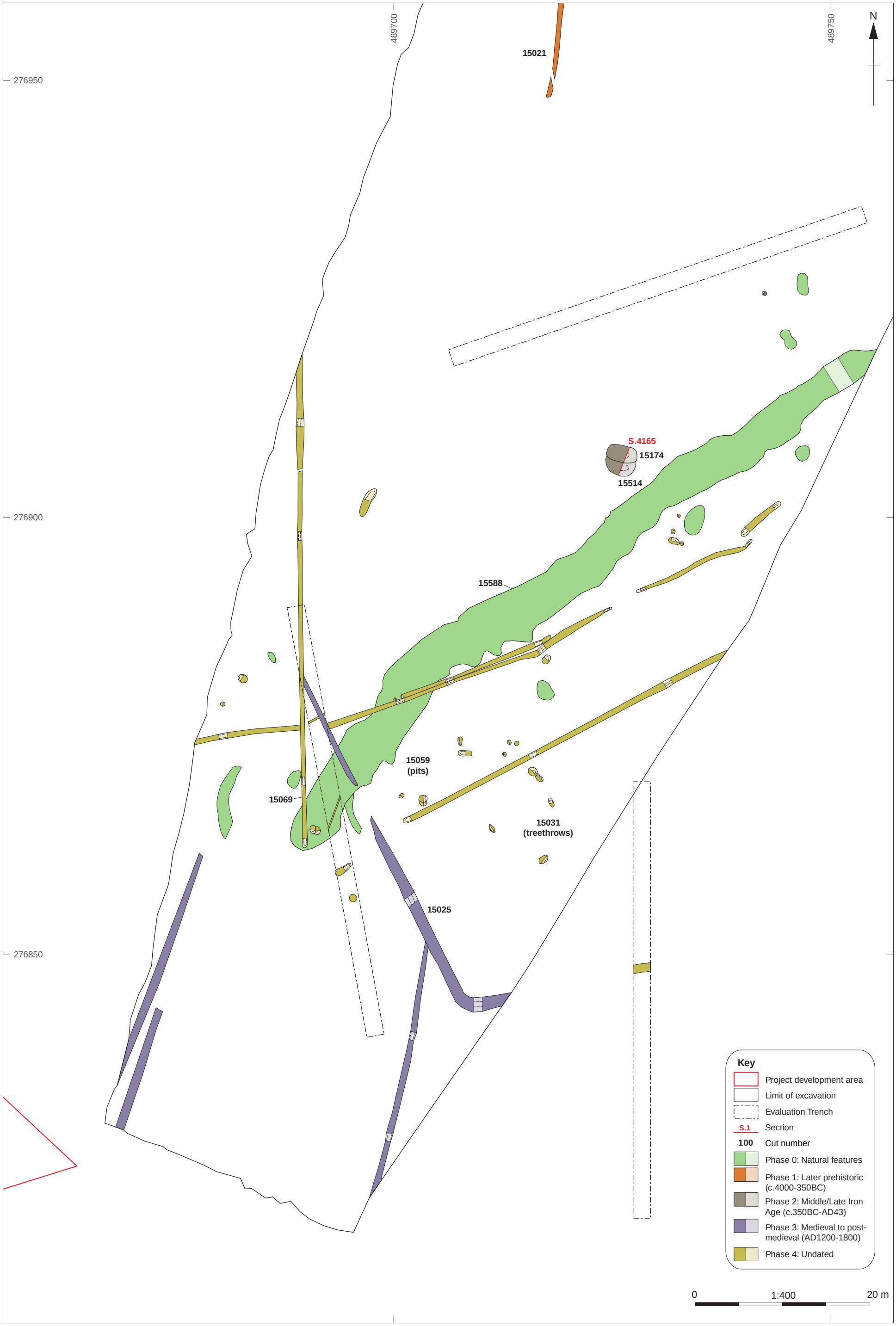
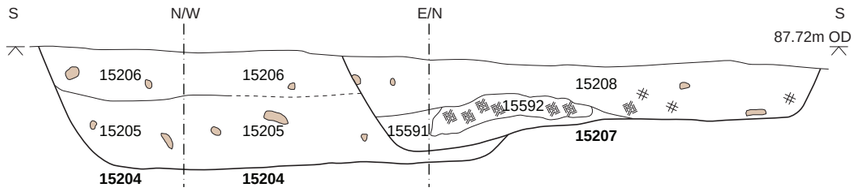


Figure 7: South detail

Figure 8: DC3 preliminary phase plan

Section 4068



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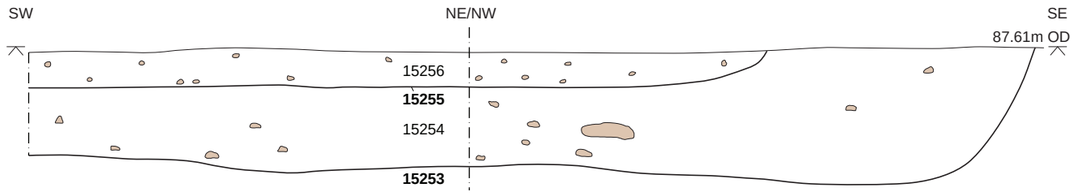

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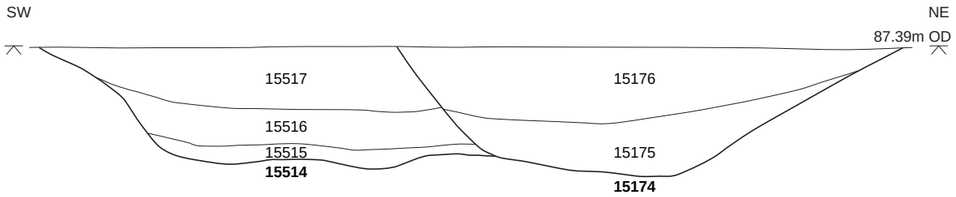

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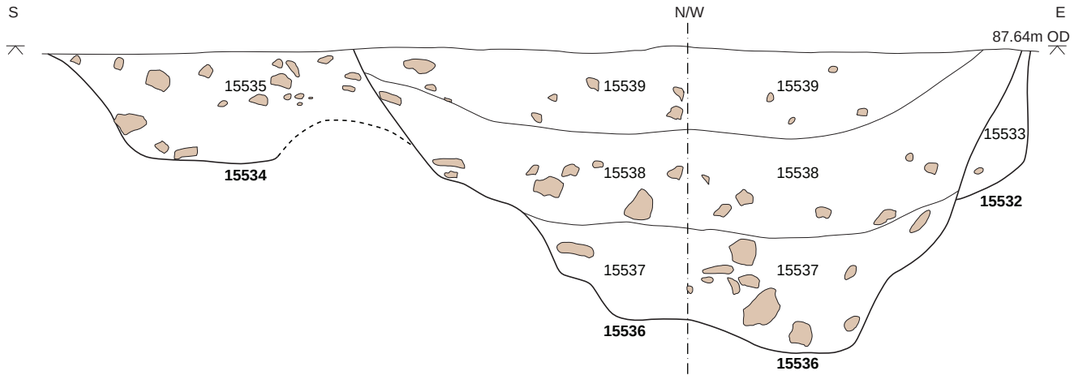

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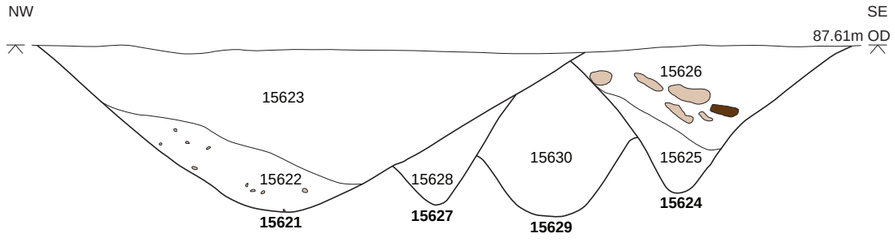

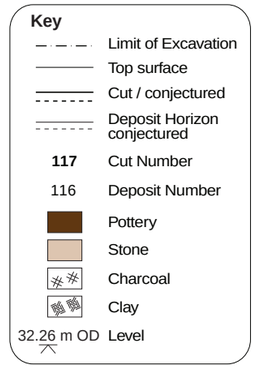

Figure 9: R20/R21b selected sections

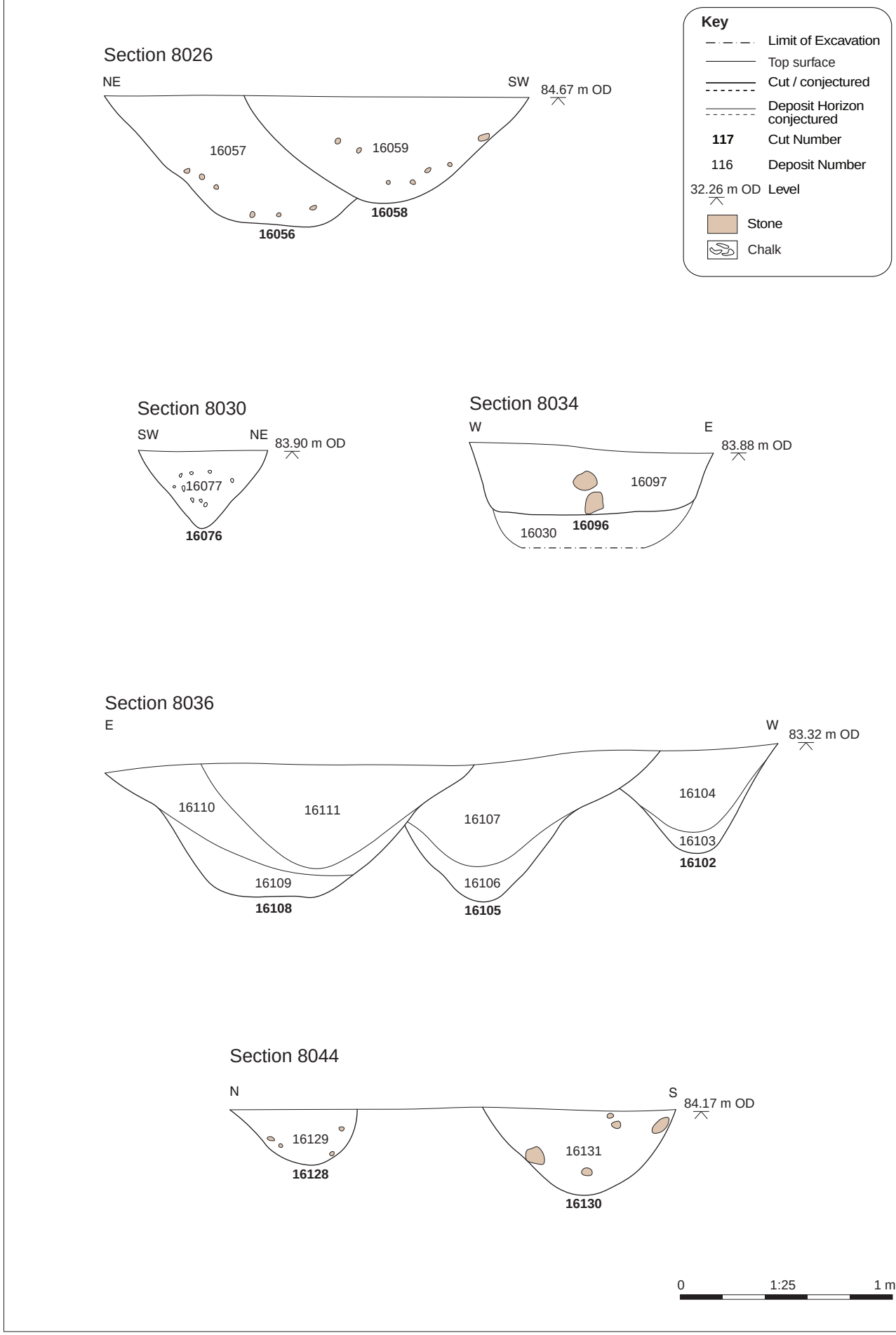

Figure 10: DC3 selected sections

Plate 1: Photogrammetry- image of site

Plate 2: Terminus of D-shaped enclosure **15049**, looking north

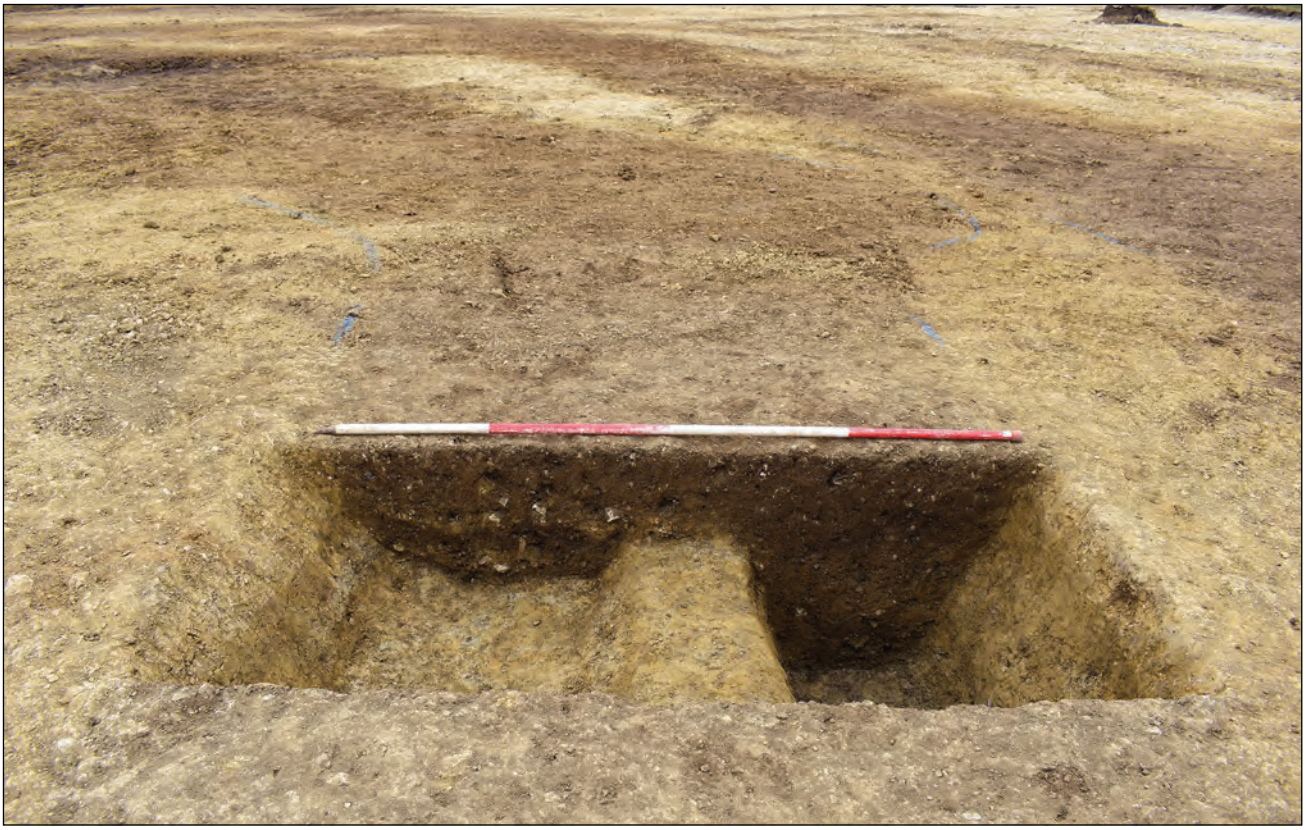

Plate 3: Re-cutting of D-shaped enclosure **15076**, looking south-west

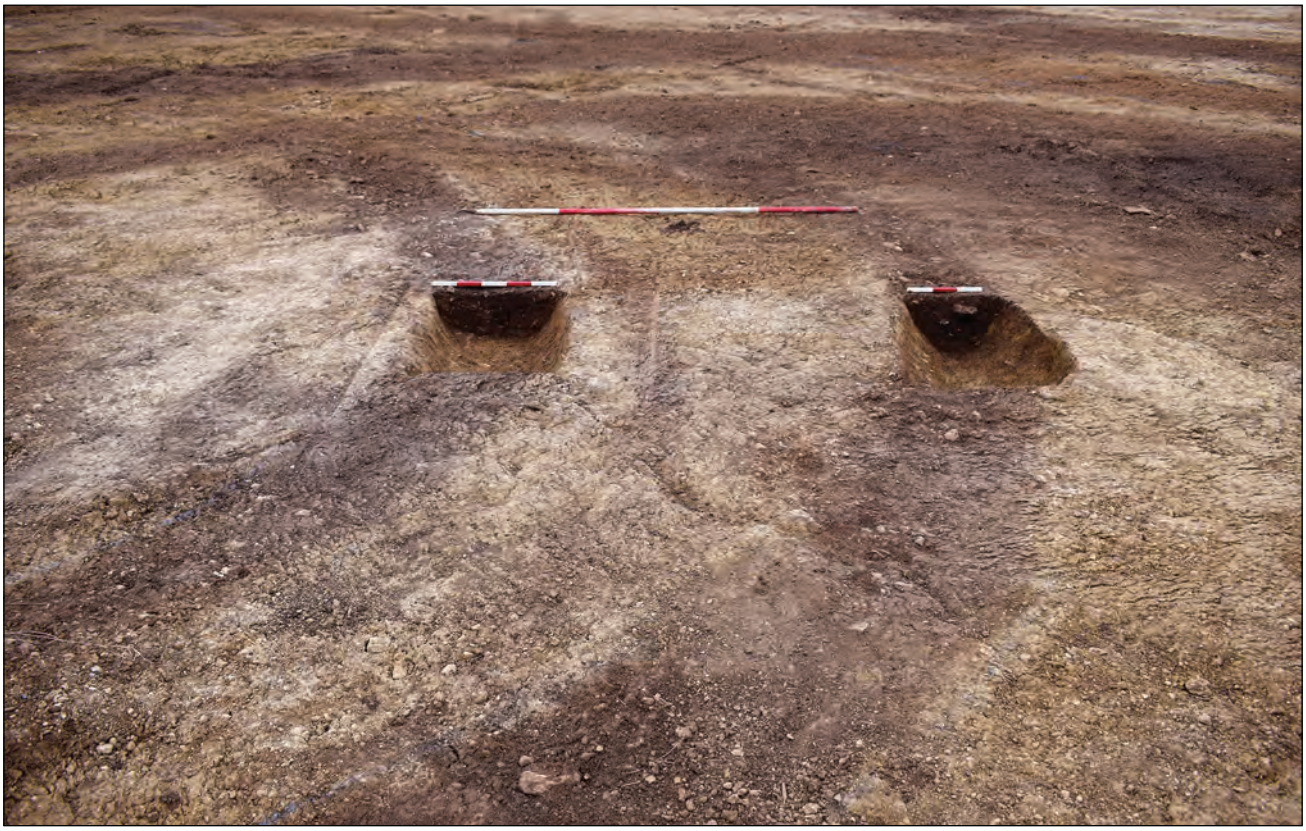

Plate 4: Shallow semi-circular features **15073** and **15071**, looking south-west

Plate 5: Terminus of semi-circular feature **15073** showing deposit 15592, interpretted as the remains of an attempted oven, looking east

Plate 6: Pit **15096** demonstrating the stoney fill of some Iron Age pits, looking west

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