



February 2013

Client: Hill Partnerships Ltd.

OA East Report No: 1442 OASIS No: oxfordar3-143898 NGR: TL 5152 5045



Land off Blacksmiths Close, Babraham

Archaeological Evaluation

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With contributions from Chris Faine Msc AlfA

Editor: Richard Mortimer MIfA

Illustrator: David Brown BA

Report Date: February 2013



| Report Number: | 1442 | | | | | | | |
|------------------------------------|---|-------------------------------------|--|--|--|--|--|--|
| Site Name: | Land off Blacksmiths Close | and off Blacksmiths Close, Babraham | | | | | | |
| HER Event No: | ECB 3915 | | | | | | | |
| Date of Works: | 13-14 February 2013 | 13-14 February 2013 | | | | | | |
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| Planning Ref: | S/0474/11 | | | | | | | |
| Grid Ref: | TL 5152 5045 | | | | | | | |
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| Finance Code: | BABBSC12 | | | | | | | |
| Receiving Body: | CCC Stores, Landbeach | | | | | | | |
| Accession No: | - | | | | | | | |
| Prepared by: Position: Date: | Louise Bush Project Officer February 2013 | | | | | | | |
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| Date: Signed: | February 2013 | Vichard Meelin | | | | | | |

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Summary

Between the 13th and 14th February 2013 Oxford Archaeology East carried out an archaeological evaluation on land off Blacksmith's Close, Babraham (TL 5152 5045). Work was carried out ahead of the construction of eleven affordable dwellings, together with the construction of a new access road, provision of open space and landscaping.

The trial trenching revealed only low level archaeological remains, the principal feature being a set of small ditches and gullies forming a field boundary (Trench 3). Seven of the nine trenches were devoid of features. Trench 7 contained a single gully, whilst Trench 3 was seen to contain two ditches and three gullies (on three separate alignments).

All features on site were extremely shallow, this was not however the result of modern ploughing. The subsoil/medieval ploughsoil across the site varied greatly in depth from 0.17m (in Trench 5) to 1.1m at its deepest (in Trench 8).

Just four finds were recovered from the site; three residual struck flints (of Neolithic date) were recovered from topsoil/subsoil and part of a copper alloy brooch dating to the 1st century AD was retrieved from the fill of ditch **102**.





1 INTRODUCTION

1.1 Location and scope of work

- 1.1.1 An archaeological evaluation was conducted on land behind Blacksmith's Close, Babraham, Cambridgeshire (551563 250468) (Fig.1).
- 1.1.2 This archaeological evaluation was undertaken in accordance with a Brief issued by Dan McConnell of Cambridgeshire County Council (CCC; Planning Application S/0474/11), supplemented by a Specification prepared by OA East (Mortimer 2012).
- 1.1.3 The work was designed to assist in defining the character and extent of any archaeological remains within the proposed redevelopment area, in accordance with the guidelines set out in *National Planning Policy Framework* (Department for Communities and Local Government March 2012). The results will enable decisions to be made by CCC, on behalf of the Local Planning Authority, with regard to the treatment of any archaeological remains found.
- 1.1.4 The site archive is currently held by OA East and will be deposited with the appropriate county stores in due course.

1.2 Geology and topography

1.2.1 The site is located at the eastern edge of the village of Babraham and is situated on flat ground of Holywell Nodular Chalk (BGS 2013) at an average height of around 27m OD. A small dry stream-bed, possibly a post-medieval cutting, borders the site to the east. The site lies on the eastern side of the valley of the River Granta (500m to the west) and *c*. 2km to the west of the *Via Devana* Roman Road.

1.3 Archaeological background

1.3.1 Since 1994, a significant amount of archaeological work has been undertaken within the grounds of the Babraham Institute to the immediate north-west of the proposed development area (see Butler 1994, Robinson 1995, Regan 1995, Hatton 1997, Wills 2004, Swaysland 2005, Armour 2006, Armour *et al.* 2007 and Timberlake *et al.* 2007). Extensive remains of the prehistoric, Romano-British, Saxon and Medieval periods – including *in situ* early Neolithic flint knapping scatters, a large Romano-British cemetery and Saxon *Grubenhäuser* – have been recorded across the area.

1.4 Acknowledgements

1.4.1 The author would like to thank Denis Devane of Hill Partnerships Ltd. for commissioning and funding the work. The project was managed by Richard Mortimer. The site was excavated by the author. Machine excavation and metal detecting was undertaken by Nick Richardson of LOC Plant Hire and Haulage.



2 AIMS AND METHODOLOGY

2.1 Aims

2.1.1 The objective of this archaeological evaluation was to determine as far as reasonably possible the presence/absence, location, nature, extent, date, quality, condition and significance of any surviving archaeological deposits within the development area.

2.2 Methodology

- 2.2.1 The Brief required that 250m of trenching be excavated across the site, giving a 5% sample of the overall development area.
- 2.2.2 Machine excavation was carried out under constant archaeological supervision with a tracked mechanical excavator using a 2m wide toothless ditching bucket.
- 2.2.3 The site survey was carried out by the author using a Leica 1200 GPS.
- 2.2.4 Spoil, exposed surfaces and features were scanned with a metal detector. All metaldetected and hand-collected finds were retained for inspection, other than those which were obviously modern.
- 2.2.5 All archaeological features and deposits were recorded using OA East's *pro-forma* sheets. Trench locations, plans and sections were recorded at appropriate scales and colour and monochrome photographs were taken of all relevant features and deposits.
- 2.2.6 Site conditions were good under foot, the weather was a mix of cloud and rain and was very cold.



3 RESULTS

3.1 Introduction

- 3.1.1 The trenches will be discussed below numerically (Fig.2). The topsoil consisted of a dark grey brown clayey silt about 0.25m in thickness and contained a high level of natural flint nodules and fragments. The subsoil, which is likely to be a Medieval plough soil, consisted of mid a brown orange clayey silt.
- 3.1.2 The depth of the subsoil varied greatly across the site. There was no subsoil present in Trench 1 by the High St. The shallowest subsoil was seen in Trench 5 (at the southern end of the development area) and measured 0.17m in thickness. The deepest subsoil was in Trench 8 (on the north-eastern side of the site), measuring 1.1m in thickness. The modern field surface is uneven, with noticeable plateaus and large hollow areas; the differential thickness of the subsoil is caused by its infilling of glacial hollows and undulations within the underlying natural chalk.
- 3.1.3 Full details of context and trench descriptions can be found in Appendix A. Unless otherwise stated, no finds were recovered from feature fills.

3.2 Trench 1

3.2.1 Trench 1 was devoid of archaeological features. A single later Neolithic flint blade (118) was recovered from the topsoil during machining.

3.3 Trench 2

3.3.1 Trench 2 was devoid of archaeology but contained a large post-medieval/modern tree throw.

3.4 Trench 3

- 3.4.1 A number of shallow archaeological features, in the form of ditches and gullies/ruts, was seen across the length of Trench 3 (Fig.3). The trench was extended *c*. 7m to form an 'L' shape, in order to pick up the continuation of these features. The features referred to below as 'gullies' could represent ruts or parts of a planted hedgeline, or indeed gullies see discussion.
- 3.4.2 Ditch **102** (Plates 1 and 2) was 0.85m wide and 0.25m deep with steeply sloping sides and a concave base (Fig. 3, S.1). It was orientated north-west to south-east and was filled by a single mid grey brown clay silt (103). Retrieved from the fill was SF1 part of a copper alloy brooch dating to the 1st Century AD.
- 3.4.3 Ditch **104** was orientated north-west to south-east (Fig.3, S.2). It was 0.92m wide and 0.17m deep with gently sloping sides and a concave base. It was filled by a light yellow grey clay silt (105). No finds were recovered.
- 3.4.4 Ditch **106** was potentially the continuation of ditch **104**. It was 0.75m wide and 0.1m deep with an open bowl shaped profile and ran in a north-east to south-west direction. It was filled with a mid orange brown silty sand (107). No finds were recovered.
- 3.4.5 Gully **108** (Plate 3) was 0.35m wide and 0.05m deep with a shallow bowl profile. It was orientated north-east to south-west. The fill (109) was made up of a mid brown grey silty sand. No finds were recovered.



- 3.4.6 Gully **110** ran parallel with gully **108**. It was 0.5m wide and 0.06m deep with a bowl shaped profile. It was filled with a mid brown grey silty sand (111). No finds were recovered.
- 3.4.7 Gully **112** was orientated west-northwest to east-southeast and was potentially the continuation of gully **110**. It was 0.5m wide and 0.1m deep and terminated in the trench. It was filled with a mid grey brown silty sand fill (113) which contained a single, probably later Neolithic, flint flake.
- 3.4.8 Gully **114** could be a continuation of gully **108**. It ran parallel with gully **112**, terminating in the trench. It was 0.35m wide and 0.07m deep with a bowl shaped profile. It was filled with a mid grey brown silty sand. No finds were recovered.
- 3.4.9 Gully **116** was different in its morphology to the other features in the trench. It was 0.6m wide and 0.11m deep with a bowl shaped profile. The gully was aligned in north-south direction. The fill consisted of a dark grey silty sand. No finds were recovered.

3.5 Trench 4

3.5.1 No archaeological features were identified in Trench 4.

3.6 Trench 5

3.6.1 No archaeological features were identified in Trench 5.

3.7 Trench 6

3.7.1 No archaeological features were identified in Trench 6 but a sizeable flint core (120) was collected from the topsoil during machining (see Finds Summary).

3.8 Trench 7

3.8.1 A single gully **100**, running in an east-west direction was recorded in Trench 7 (Plate 4). It was 0.38m wide and 0.06m deep with a bowl-shaped profile. It was filled with a mid orange brown silty sand (101). No finds were recovered.

3.9 Trench 8

3.9.1 No archaeological features were identified in Trench 8 (Plate 6).

3.10 Trench 9

3.10.1 No archaeological features were identified in Trench 9. However an area of postmedieval tree rooting was seen across the north-eastern end of the trench.

3.11 Finds Summary

Struck flint (Barry Bishop pers. comm)

3.11.1 Only three struck flints were recovered during the archaeological works, despite a search of all the spoilheaps. All three came from unstratified topsoil deposits. Two of the flints are small, broken, later Neolithic flakes, the third (120) is a core of '*Levallois*'-type, but also probably of Later Neolithic date. The core has clearly failed and has possibly then been deliberately broken.



Metal find (Chris Faine)

3.11.2 A single copper alloy brooch was recovered from ditch **102** (Plate 6). The brooch is of the "Langton Down" type (*c*. 10-40 AD). Bent midway up the body with catch-plate and pin largely missing.



4 DISCUSSION AND CONCLUSIONS

- 4.1.1 The features seen during the archaeological works at Blacksmith's Close show limited evidence for activity pre-dating the Medieval period. The site is clearly well outside the main area of activity and occupation around the Babraham Institute to the north-west.
- 4.1.2 Ditches **102** and **106** probably represent a Roman field boundary. Either they were originally very slight features or they have been heavily truncated by Medieval ploughing; they were clearly sealed by a depth of Medieval ploughsoil. The brooch recovered from the fill of **102** is likely to be a chance loss as no other material was present within the area to suggest middening during this period. There was no pottery, of any date, recovered anywhere on site, and there is unlikely to be any Roman or other occupation on or in the immediate vicinity of the site.
- 4.1.3 The narrow, shallow, parallel gullies are a little more ambiguous. Their alignment is somewhat non-uniform in plan, but they run broadly parallel with the Roman field boundary, and thus are probably associated with it. If the area has not been particularly heavily truncated they could represent the remnants of a dug and planted hedge line or perhaps the ruts of a trackway running along side the boundary ditch. If the area has been heavily truncated then they may be the bases of further ditch cuts along this line.
- 4.1.4 The very slight background scatter of struck flint across the site shows that natural flint was readily available in the surrounding environs and that limited prehistoric activity was taking place close to or on the site.
- 4.1.5 Overall, the evidence collected during the archaeological works reveals only a very small insight into the occupation of Babraham during the prehistoric or Roman periods.



APPENDIX A. TRENCH DESCRIPTIONS AND CONTEXT INVENTORY

| General d | escriptior | า | | | Orientation | l | NW-SE |
|---|--|---|--|--|---|------------------|---|
| | | | Avg. depth (m) | | 0.3 | | |
| Trench dev chalky grav | | haeology. | Width (m) | | 2 | | |
| chaiky gra | vei. | | Length (m) | | 25 | | |
| Contexts | | | | | | | 1 |
| context no | type | Width (m) | Depth (m) | comment | finds date | | |
| 118 | - | - | - | Topsoil find | Flint | Neo | lithic |
| Trench 2 | 1 | | - | | | | |
| General d | escriptior | า | | | Orientation | | NNE-SSW |
| | | | | | Avg. depth | (m) | 0.8 |
| | | | | ned p/m tree throw. atural of chalky gravel. | Width (m) | | 2 |
| 0013131313 0 | 1 3011 4110 3 | | anying a n | atural of charky gravel. | Length (m) | | 20 |
| Contexts | | | | | | | 1 |
| context no | type | Width (m) | Depth (m) | comment | finds | da | ate |
| - | - | - | - | - | - | | - |
| Trench 3 | | | | | | | |
| | | | | | | | |
| General d | escriptior | າ | | | Orientation | 1 | NW-SE |
| | | | _ | | Orientation Avg. depth | | NW-SE 0.7 |
| Trench cor | ntained two | o ditches a | | jullies. Consists of soil and | | | |
| | ntained two | o ditches a | | | Avg. depth | (m) | 0.7 |
| Trench cor | ntained two | o ditches a | | | Avg. depth Width (m) | (m) | 0.7 2 |
| Trench cor subsoil ove | ntained two | o ditches a | | | Avg. depth Width (m) | (m) | 0.7 2 |
| Trench cor subsoil ove Contexts context | ntained two erlying a n | o ditches a atural of c | halky grav | el. | Avg. depth Width (m) Length (m) | (m) da | 0.7 2 25 |
| Trench cor subsoil ove Contexts context no | ntained two erlying a n type | o ditches a atural of c Width (m) | Depth (m) | comment | Avg. depth Width (m) Length (m) | (m) da | 0.7 2 25 ate |
| Trench cor subsoil ove Contexts context no 102 | type Cut | o ditches a atural of c Width (m) | Depth (m) 0.25 | el. comment Ditch | Avg. depth Width (m) Length (m) finds | (m) da Roi | 0.7 2 25 ate |
| Trench cor subsoil ove Contexts context no 102 103 | type Cut Fill | o ditches a atural of c Width (m) 0.85 | Depth (m) 0.25 0.25 | el. comment Ditch Ditch | Avg. depth Width (m) Length (m) finds - CuA | (m) da Roi | 0.7 2 25 ate - man |
| Trench cor subsoil ove Contexts context no 102 103 104 | type Cut Fill Cut | o ditches a atural of c Width (m) 0.85 | Depth (m) 0.25 0.25 0.17 | el. comment Ditch Ditch Ditch | Avg. depth Width (m) Length (m) finds - CuA - | (m) da Roi | 0.7 2 25 ate - man |
| Trench cor subsoil ove Contexts context no 102 103 104 105 | type Cut Fill Cut Fill | o ditches a atural of c Width (m) 0.85 0.92 | Depth (m) 0.25 0.25 0.17 0.17 | el. comment Ditch Ditch Ditch Ditch Ditch | Avg. depth Width (m) Length (m) finds - CuA - - | (m) da Roi | 0.7 2 25 ate - man |
| Trench cor subsoil ove Contexts context no 102 103 104 105 106 | type Cut Fill Cut Fill Cut | o ditches a atural of c Width (m) 0.85 0.92 | Depth (m) 0.25 0.25 0.17 0.17 | el. comment Ditch Ditch Ditch Ditch Ditch Ditch | Avg. depth Width (m) Length (m) finds - CuA - - - | (m) da | 0.7 2 25 ate - man - - - |
| Trench cor subsoil ove Contexts context no 102 103 104 105 106 107 | type Cut Fill Cut Fill Cut Fill Cut Fill | o ditches a atural of c Width (m) 0.85 0.92 0.75 | Depth (m) 0.25 0.25 0.17 0.1 0.1 | el. comment Ditch Ditch Ditch Ditch Ditch Ditch Ditch | Avg. depth Width (m) Length (m) finds - CuA - - - - - | (m) da Roi | 0.7 2 25 ate - man - - - |
| Trench cor subsoil ove Contexts context no 102 103 104 105 106 107 108 | type Cut Fill Cut Fill Cut Fill Cut Fill Cut | o ditches a atural of c Width (m) 0.85 0.92 0.75 | Depth (m) 0.25 0.25 0.17 0.1 0.1 0.1 | el. comment Ditch Ditch Ditch Ditch Ditch Ditch Ditch Gully | Avg. depth Width (m) Length (m) finds - CuA - - - - - - - | (m) da Roi | 0.7 2 25 ate - man - - - - - - |
| Trench cor subsoil ove Contexts context no 102 103 104 105 106 107 108 109 | type Cut Fill Cut Fill Cut Fill Cut Fill Cut Fill | o ditches a atural of c Width (m) 0.85 0.92 0.75 0.35 | Depth 0.25 0.25 0.17 0.17 0.1 0.1 0.05 | el. comment Ditch Ditch Ditch Ditch Ditch Ditch Gully Gully | Avg. depth Width (m) Length (m) finds - CuA - CuA - - - - - - - - - | (m) da | 0.7 2 25 ate - man - - - - - - |
| Trench cor subsoil ove Contexts context no 102 103 104 105 106 107 108 109 110 | type Cut Fill Cut Fill Cut Fill Cut Fill Cut Fill Cut | o ditches a atural of c Width (m) 0.85 0.92 0.75 0.35 | Depth (m) 0.25 0.25 0.17 0.17 0.1 0.1 0.05 0.05 0.06 | el. comment Ditch Ditch Ditch Ditch Ditch Ditch Ditch Gully Gully Gully | Avg. depth Width (m) Length (m) finds - CuA - - - - - - - - - - - - - | (m) da | 0.7 2 25 ate - man - - - - - - - - - - - - |



| | | | | I | | | |
|---------------------------------------|-------------|--------------|--------------|-------------------------------|-------------------------|----------|---------|
| 114 | Cut | 0.35 | 0.07 | Gully | | | - |
| 115 | Fill | | 0.07 | Gully | - | - | |
| 116 | Cut | 0.6 | 0.11 | Gully | - | - | |
| 117 | Fill | | 0.11 | Gully | - | | - |
| Trench 4 | | | | | | | |
| General de | escription | l | | | Orientation | l | NNE-SSW |
| | | | _ | | Avg. depth (m) 0.9 | | 0.96 |
| Trench dev a natural o | | | Width (m) | | 2 | | |
| | r chaity gi | avei. | Length (m) | | 25 | | |
| Contexts | | | | | 1 | | 1 |
| context no | type | Width (m) | Depth (m) | comment | finds | da | ate |
| - | _ | - | _ | - | _ | | - |
| Trench 5 | | <u> </u> | | · | <u> </u> | <u> </u> | |
| General de | escription | 1 | | | Orientation | | NW-SE |
| | • | | | | Avg. depth | (m) | 0.52 |
| | | | Consists o | of soil and subsoil overlying | Width (m) | •••• | |
| a natural o | f chalky gr | avel. | | | Length (m) | . , | |
| Contexts | | | | | _og () | | 50 |
| context | | Width | Depth | | | | |
| no | type | (m) | (m) | comment | finds | da | ate |
| - | - | - | - | - | - | | - |
| Trench 6 | 1 | | | | 1 | | |
| General de | escription | 1 | | | Orientation | 1 | NE-SW |
| | | | | | Avg. depth | (m) | 0.55 |
| | | | Consists o | of soil and subsoil overlying | Width (m) | | 2 |
| a natural o | i chaiky gi | avei. | | | Length (m) | | 25 |
| Contexts | | | | | | | |
| context no | type | Width (m) | Depth (m) | comment | finds | da | ate |
| 120 | _ | - | - | Topsoil find | Flint | Nec | lithic |
| Trench 7 | | 1 | 1 | · · | | l | |
| | escription | 1 | | | Orientation | | NW-SE |
| General d | | | | | Avg. depth | | 0.7 |
| General de | | | | · ··/ | | | |
| Trench cor | | | . Consists | of soil and subsoil overlying | Width (m) | | 12 |
| | | | . Consists | of soil and subsoil overlying | Width (m) | | 2 |
| Trench cor a natural o | | | v. Consists | of soil and subsoil overlying | Width (m) Length (m) | | 2 25 |
| Trench cor a natural o Contexts | | avel. | | | Length (m) | | 25 |
| Trench cor a natural o | | | Depth (m) | comment | | | |



| 101 | Fit | - | 0.06 | Gully | - | | - | |
|---------------------------|------------------|--------------|-------------|-----------------------------|----------------|-----------|-------|--|
| 119 | - | - | - | Topsoil find | Flint | Neolithic | | |
| Trench 8 | | 1 | | · | | | | |
| General d | escription | | Orientation | NW-S | | | | |
| | | | Avg. depth | (m) | 1.4 | | | |
| Trench dev a natural o | | Width (m) | | 2 | | | | |
| | i chany gi | | | | Length (m) | | 25 | |
| Contexts | | | | | | | | |
| context no | type finds finds | | | | | | date | |
| - | - | - | - | - | - | | - | |
| Trench 9 | | | | · | | | | |
| General d | escription | | | | Orientation | | NE-SW | |
| Trench dev | void of arch | naeology | out contai | ned p/m tree rooting across | Avg. depth (m) | | 0.8 | |
| one end. C | | | | erlying a natural of chalky | Width (m) | | 2 | |
| gravel. | | | | | Length (m) | | 25 | |
| Contexts | | | | | | | | |
| context no | type | Width (m) | comment | finds | s date | | | |
| | | | | | | | | |



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APPENDIX C. OASIS REPORT FORM

All fields are required unless they are not applicable.

| Project Details OASIS Number | | | | | |
|--|---|---|--|--|--|
| Project Name | | | | | |
| | | | | | |
| Project Dates (fieldwork) Start | Fin | ish | | | |
| Previous Work (by OA East) | Fut | ure Work | | | |
| Project Reference Codes | | | | | |
| Site Code | Planning App. No. | | | | |
| HER No. | Related HER/OAS | IS No. | | | |
| Type of Project/Techniques Use Prompt | d | | | | |
| Development Type | | | | | |
| Please select all techniques | used: | | | | |
| Aerial Photography - interpretation | Grab-Sampling | Remote Operated Vehicle Survey | | | |
| Aerial Photography - new | Gravity-Core | Sample Trenches | | | |
| Annotated Sketch | Laser Scanning | Survey/Recording Of Fabric/Structure | | | |
| | Measured Survey | Targeted Trenches | | | |
| Dendrochronological Survey | Metal Detectors | Test Pits | | | |
| Documentary Search | Phosphate Survey | Topographic Survey | | | |
| Environmental Sampling | Photogrammetric Survey | Vibro-core | | | |
| Fieldwalking | Photographic Survey Visual Inspection (Initial Site | | | | |
| Geophysical Survey | Rectified Photography | Rectified Photography | | | |
| Monument Types/Significant Fi List feature types using the NMR Monume together with their respective periods. If n | ent Type Thesaurus and significant finds | using the MDA Object type Thesaurus "none". | | | |
| Monument Period | Object | Period | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Project Location | | | | | |
| Project Location County | Site Address | s (including postcode if possible) | | | |
| - | Site Address | s (including postcode if possible) | | | |
| County | Site Address | s (including postcode if possible) | | | |
| County District | Site Address | s (including postcode if possible) | | | |



Project Originators

| Organisation | |
|---------------------------|--|
| Project Brief Originator | |
| Project Design Originator | |
| Project Manager | |
| Supervisor | |
| | |

Project Archives

| Physical Archive | Digital Archive | Paper Archive |
|------------------|-----------------|---------------|
| | | |
| | | |
| | | |

Archive Contents/Media

| | Physical Contents | Digital Contents | Paper Contents |
|---------------------|----------------------|---------------------|-------------------|
| Animal Bones | | | |
| Ceramics | | | |
| Environmental | | | |
| Glass | | | |
| Human Bones | | | |
| Industrial | | | |
| Leather | | | |
| Metal | | | |
| Stratigraphic | | | |
| Survey | | | |
| Textiles | | | |
| Wood | | | |
| Worked Bone | | | |
| Worked Stone/Lithic | | | |
| None | | | |
| Other | | | |

Notes:



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Figure 2: Trench plan

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Figure 3: Plan of Trench 3 and sections 1 and 2

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Plate 4: Gully 100 (looking north-east)

Plate 3: Trench 3 (looking north-west)





Plate 5:Trench 8 (looking south-east)



Plate 6: Small Find 1

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