Archaeological Evaluation of land to the west of Wises Lane, South-West Sittingbourne, Kent

Phases 2A and 2C

Site Code: WLS2-EV-23

NGR Site Centre: 588260 163800

Planning Application Number: 17/505711/HYBRID



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Abstract

Swale & Thames Survey Company (SWAT Archaeology) were commissioned to undertake an archaeological evaluation on Land to the west of Wises Lane, South-West Sittingbourne, Kent (Phases 2A and 2C). The archaeological programme was monitored by the Principal Archaeological Officer at Kent County Council.

The archaeological evaluation (Phases 2A and 2C) has investigated the extents of the proposed development area using 76 trenches each measuring up to 25m in length.

Archaeological remains were exposed in 24 Trenches, however most of those remains that were identified are not thought to be significant comprising cultivated and developed agricultural soils and a series of linear features, thought to form a part of a field system thus suggesting that this part of PDA falls within wider Late Iron Age and Roman agricultural landscape.

A course of three trackways were investigated and broadly dated to the same Period. First trackway in northwest-southeast alignment is a continuation of the same feature investigated during Phase 1A excavation. Second potential trackway in north-south alignment was identified in Trench 23 and is thought that this trackway is branching-off at the T-junction of the first one and runs to the south towards potential settlement there as indicated by geophysical survey. Third trackway in north-east southwest alignment was revealed in Trench 71 and is thought that this branch runs to the north-east towards another potential settlement there.

A significant pit was revealed in Trench 91, feature contained metallurgical waste (iron slag) adhered to lumps of baked soil. An oval enclosure of not yet determined function was revealed to the south in Trenches 95 and 56.

Additionally colluvium deposits were identified within southern extent of Phase 2C and tested by excavating a series of geological trial holes. An interesting three throw hole was identified under hill wash deposit in Trench 46 and its backfill produced several worked flint pieces including pick or axe dated to Mesolithic Period. Couple of undated but thought to be Late prehistoric pits were exposed under colluvium in test-pit 53A.

The archaeological evaluation has been successful in fulfilling the primary aims and objectives of the Specification and has assessed the archaeological potential of land intended for development. The results from this work will be used to aid and inform the Principal Archaeological Officer of any further archaeological mitigation measures that may be necessary in connection with any future development proposals.

Archaeological Evaluation of land to the west of Wises Lane, South-West Sittingbourne, Kent

Phases 2A and 2C

NGR Site Centre: 588260 163800 Site Code: WLS2-EV-22

1 INTRODUCTION

1.1 Project Background

- 1.1.1 Swale & Thames Survey Company (SWAT Archaeology) were commissioned to undertake an archaeological evaluation on land to the west of Wises Lane, South-West Sittingbourne, Kent. (Phases 2A and 2C) (Figure 2).
- 1.1.2 The land has planning consent (Swale Borough Council (Ref. 17/505711/HYBRID) for the following. outline planning permission for up to 595 dwellings including affordable housing; a 2- form entry primary school with associated outdoor space and vehicle parking; local facilities comprising a Class A1 retail store of up to 480 sq. m GIA and up to 560 sq. m GIA of "flexible use" floor space that can be used for one or more of the following uses A1 (retail), A2 (financial and professional services), A3 (restaurants and cafes), D1 (non-residential institutions); a rugby clubhouse/community building up to 375 sq. m GIA, 3 standard RFU sports pitches and associated vehicle parking; a link road between Borden Lane and Chestnut Street/A249; allotments: and formal and informal open space incorporating SUDS, new planting/landscaping and ecological enhancement works; and full planning permission for the erection of 80 dwellings including affordable housing, open space, associated SUDS.
- 1.1.3 A Condition 66 of the hybrid consent states the following:

Before the submission of reserved matters for any phase (excluding Phase 1A), the applicant (or their agents or successors in title) shall secure and have reported a programme of archaeological field evaluation works for that phase, in accordance with a specification and written timetable which has been submitted to and approved by the local planning authority.

- 1.1.4 On the basis of the present archaeological information. KCCHC advising Swale Borough Council recommended that the proposed development should be subject to a programme of archaeological works in order to clarify the archaeological elements within the site.
- 1.1.5 The evaluation was carried out in accordance with an archaeological Written Scheme of Investigation (WSI) prepared by SWAT Archaeology (2022), prior to the commencement of works.
- 1.1.6 The evaluation is the first stage of the programme of archaeological works and addresses part i) of the planning condition only. Its main aim is to clarify the presence/absence of archaeology and its significance. On the basis of the results of the evaluation, further archaeological works may be needed and could include excavation and/or watching brief and post excavation and publication.

1.2 Timetable

1.2.1 A timetable for the archaeological programme of works, to date, is provided below;

Task	Dates	Personnel/Company	
Geophysical Survey	2022	Magnitude Surveys	
Submission of the Written Scheme	June 2022	SWAT Archaeology	
of Investigation			
Strip Map and Sample Programme	October 2022 –March 2023	SWAT Archaeology	
(Phase 1A)			
Archaeological Evaluation:	December 2022	SWAT Archaeology	
Fieldwork (Phase 1B)			
Archaeological Evaluation Report	December 2022	SWAT Archaeology	
(Phase 1B)			
Archaeological Evaluation:	May 2023	SWAT Archaeology	
Fieldwork (Phase 2B)			
Archaeological Evaluation:	May/ June 2023	SWAT Archaeology	
Fieldwork (Phase 2C)			
Archaeological Evaluation:	June/ July 2023	SWAT Archaeology	
Fieldwork (Phase 2A)			
Archaeological Evaluation Report	June 2023	SWAT Archaeology	
(Phase 2B)			
Archaeological Evaluation Report	This document	SWAT Archaeology	
(Phases 2A and 2C)			

 Table 1 Timetable for the archaeological programme of works

1.3 Site Description, Topography and Geology

- 1.3.1 The PDA (Proposed Development Area) is centered on NGR 588260 163800 (Figure 1) and is situated on open ground of approximately 47.47 ha in area, located on the open fields adjoining the built-up edge of south-west Sittingbourne, in Kent. The south boundary is bounded by Cryalls Lane, Dental Close to the north and Wises Lane. Ground levels are relatively level and a height of approximately 30-40m above Ordnance Datum (aOD).
- 1.3.2 The Geological Survey of Great Britain (http:// www.bgs.ac.uk) shows that the site is set on Head deposits Clay and Silt overlaying the bedrock geology of Seaford Chalk Formation and Thanet Formation of Sand, Silt and Clay.

1.4 Scope of Report

1.4.1 This report has been produced to provide initial information regarding the results of the archaeological evaluation. The results from this work will be used to aid and inform the Principal Archaeological Officer (KCC) of any further archaeological mitigation measures that may be necessary in connection with any future development proposals.

2 ARCHAEOLOGICAL AND HISTORICAL BACKGROUND

2.1 Introduction

2.1.1 The Proposed Development Area (PDA) is located close to a number of archaeological sites which are identified on the KCCHER database.

2.2 HER Records

- 2.2.1 Archaeological investigation and the initial work on site was an Geophysical Survey by Magnitude Surveys Ltd has been carried out and the results showed that the area was potentially low on archaeological features although a parcel of land to the south of Phase 1A did show a high density of archaeological features.
- 2.2.2 Follow on archaeological work by Wessex Archaeology was to investigate the archaeological and non-archaeological features identified in the geophysical survey and 28 trenches measuring 30m by 1.8m were set out using GPS and 11 of the trenches were found to contain archaeological features and deposits with two concentrations in the central and southern areas of the Site.
- 2.2.3 Artefacts recovered from the Wessex archaeological work include 32 sherds of Prehistoric pottery recovered from features in Trenches 3, 8, 13, 20 and 13 Middle Bronze Age sherds from a natural/palaeochannel 2004. Roman pottery was retrieved from Trenches 23, 27, 28 with most from Trench 28. Ceramic building material, Flint, Animal bone and Other Finds were

also recovered and can be accessed in the Wessex Archaeology Report (Land at Southwest Sittingbourne, Kent Phase 1A (Archaeological Evaluation) dated October 2018).

3 AIMS AND OBJECTIVES

3.1 General Aims

- 3.1.1 The specific aims of the archaeological fieldwork were set out in a Written Scheme of Investigation (SWAT Archaeology 2022) as stated below;
 - 6.1 The primary objective of the archaeological evaluation is to establish or otherwise the presence of any potential archaeological features which may be impacted by the proposed development. The aims of this investigation are to determine the potential for archaeological activity and in particular the earlier prehistoric period and also any Roman, medieval and later archaeological activity.
 - 6.2 The programme of archaeological work should be carried out in a phased approach and will commence with evaluation through trial trenching. This initial phase should determine whether any significant archaeological remains would be affected by the development and if so, what mitigation measures are appropriate. Such measures may include further detailed archaeological excavation, or an archaeological watching brief during construction work or an engineering solution to any preservation in situ requirements.

(SWAT Archaeology 2022: Section 6)

3.2 General Objectives

- 3.2.1 The general objectives of the archaeological fieldwork were therefore:
 - To determine the presence or absence of archaeological features, deposits, structures, artefacts, or ecofacts within the specified area;
 - To establish, within the constraints of the evaluation, the extent, character, date, condition, and quality of any surviving archaeological remains;
 - To place any identified archaeological remains within a wider historical and archaeological context in order to assess their significance; and
 - To make available information about the archaeological resource within the site by reporting on the results of the evaluation.

4 METHODOLOGY

4.1 Introduction

4.1.1 All fieldwork was conducted in accordance with the methodology set out in the Specification (SWAT 2022) and carried out in compliance with the standards outlined in the Chartered Institute for Archaeologists' Standards Guidance for Archaeological Evaluations (CIFA 2014).

4.2 Fieldwork

- 4.2.1 76 evaluation trenches were excavated (Figure 3). Each trench was initially scanned by a metal detector for surface finds prior to excavation. Excavation was carried out using a mechanical excavator fitted with a toothless ditching bucket, removing the overburden to the top of the first recognisable archaeological horizon, under the constant supervision of an experienced archaeologist.
- 4.2.2 Where appropriate, trenches, or specific areas of trenches, were subsequently hand-cleaned to reveal features in plan and carefully selected cross-sections through the features were excavated to enable sufficient information about form, development, date, and stratigraphic relationships to be recorded without prejudice to more extensive investigations, should these prove to be necessary. All archaeological work was carried out in accordance with KCC and ClfA standards and guidance. A complete photographic record was maintained on site that included working shots; during mechanical excavation, following archaeological investigations, and during back filling.
- 4.2.3 On completion, the trenches were made safe and left open in order to provide the opportunity for a curatorial monitoring visit. Backfilling was carried out once all recording, surveying, and monitoring had been completed.

4.3 Recording

- 4.3.1 A complete drawn record of the evaluation trenches comprising both plans and sections, drawn to appropriate scales (1:20 for plans, 1:10 for sections) was undertaken. The plans and sections were annotated with coordinates and OD heights.
- 4.3.2 Photographs were taken as appropriate; providing a record of excavated features and deposits, along with images of the overall trench to illustrate their location and context. The record also includes images of the site overall. The photographic record comprises digital photography. A photographic register of all photographs taken is contained within the project archive.

4.3.3 A single context recording system was used to record the deposits. A full list is presented in Appendix 1. Layers and fills are identified in this report thus (100), whilst the cut of the feature is shown as [100]. Context numbers were assigned to all deposits for recording purposes. Each number has been attributed to a specific trench with the primary number(s) relating to specific trenches (*i.e.* Trench 1, 101+, Trench 2, 201+, Trench 3, 301+, etc.).

5 RESULTS

5.1 Introduction

- 5.1.1 The Trenches were mechanically excavated under archaeological supervision. Trenches were positioned to cover the entire proposed development area.
- 5.1.2 The site, as shown on Figure 3, provides the trench layout while further Figures illustrates the results for each individual archaeological evaluation trench along with representative soil sequence sections. Plates consist of photographs of features and selected trenches that have been provided to supplement the text.
- 5.1.3 Individual trench results are discussed below.

5.2 Stratigraphic Deposit Sequence

5.2.1 A relatively consistent stratigraphic sequence was recorded across the majority of the Site comprising topsoil and colluvium sealing intact subsoil, which overlay the natural geological deposits. The topsoil generally consisted of dark organic brown clay sand silt with frequent roots and occasional building material (bricks, tiles, etc), overlying the subsoil/ colluvium which consisted of light to mid brown-orange clay sand silt with moderate small rounded stones and occasional chalk flecks. Natural geology comprised bedrock geology of Chalk sealed by superficial clay and silts. In most of the areas the natural geology (xx03) was sealed-off by subsoil/ colluvium (xx02).

5.3 Archaeological Narrative – Positive Trenches

Trench 22 (Figures)

5.3.1 Trench 22 was placed in north-eastern part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.45metres in depth. It exposed natural geology context (2203) comprising firmly compacted yellow to orange-grey clay-silt with infrequent pebbles and flint gravel. Trench has exposed linear ditch. Feature [2204] comprised WNW-ESE aligned linear cut with moderately sloping sides and concave base. It measured 0.9metres in width and 0.2metres in depth and was filled by context (2205) comprising firmly compacted orange-grey clay-sand-silt with infrequent pebbles.

Trench 23 (Figures)

5.3.2 Trench 23 was placed in north-eastern part of the site in E-W alignment and measured 25metres in length by 1.8metres in width and 0.48metres in depth. It exposed natural geology context (2303) comprising firmly compacted yellow to orange-grey clay-silt with infrequent pebbles and flint gravel. Trench has exposed oval pit and potential trackway. Pit [2304] comprised sub-oval cut with moderate sides and uneven, slightly concave base. It measured 1.05metres in width and 0.18metres in depth and was filled by (2305) comprising pale orange-grey clay-sand-silt with infrequent pebble and angular flints. Feature [2306] comprised vast shallow linear cut in NNE-SSW alignment. It had shallow sides and flat uneven base and was filled by (2307) comprising pale orange-grey clay-sand-silt with infrequent pebbles, angular stones, manganese and occasional charcoal flecks. It measured 5.1metres in width and 0.21metres in depth.

Trench 24 (Figures)

5.3.3 Trench 24 was placed in north-eastern part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.44metres in depth. It exposed natural geology context (2403) comprising firmly compacted yellow to orange-grey clay-silt with infrequent pebbles and flint gravel. Trench has exposed two ditches and Holloway. Feature [2404] comprised WNW-ESE aligned linear cut with moderate sides and concave base. It measured 0.72metres in width and 0.25metres in depth and was filled by context (2405) comprising firmly compacted orange-grey clay-sand-silt with infrequent iron pan and round pebbles. Ditch [2408] was NW-SE aligned linear cut with steep sides and concave base. It measured 0.64metres in width and 0.18metres in depth and was filled by context (2409) which was firmly compacted mid brownish grey sandy silt with fair amount of subangular stones up to 150 mm and occasional manganese. Fill derived as result from gradual overtime silting process. Feature was capped and truncated by vast Holloway. Feature [2410] comprised wide but shallow NW-SE aligned linear cut with gradual break of slope at top, moderately sloped concave sides and gradual break of slope at base leading to flat base. It measured 9metres in width and 0.23 metres in depth and was filled by context (2411) comprising firmly compacted orangebrown clay-sand-silt with moderate manganese and occasional angular stones.

Trench 25 (Figures)

5.3.4 Trench 25 was placed in north-eastern part of the site in E-W alignment and measured 25metres in length by 1.8metres in width and 0.49metres in depth. It exposed natural geology context (2503) comprising firmly compacted yellow to orange-grey clay-silt with infrequent pebbles and flint gravel. Trench has exposed linear ditch and trackway. Feature [2504]

comprised WNW-ESE aligned linear cut with steep sides and flat base. It measured 1.1metres in width and 0.25metres in depth and was filled by (2505) comprising firmly compacted browngrey clay sand silt with infrequent manganese and charcoal flecks.

Trench 27 (Figures)

5.3.5 Trench 27 was placed in north-eastern part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.47metres in depth. It exposed natural geology context (2703) comprising firmly compacted yellow to orange-grey clay-silt with infrequent pebbles and flint gravel. Trench has exposed modern service trench in NNE-SSW alignment.

Trench 28 (Figures)

5.3.6 Trench 28 was placed in north-eastern part of the site in E-W alignment and measured 25metres in length by 1.8metres in width and 0.48metres in depth. It exposed natural geology context (2803) comprising firmly compacted yellow to orange-grey clay-silt with infrequent pebbles and flint gravel. Trench has exposed oval pit. Feature [2804] comprised sub-oval cut with moderate sides and concave base

Trench 29 (Figures)

5.3.7 Trench 29 was placed in north-eastern part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.47metres in depth. It exposed natural geology context (2903) comprising firmly compacted yellow to orange-grey clay-silt with infrequent pebbles and flint gravel. Trench has exposed ditch [2904] comprising WNW-ESE aligned linear cut with moderate sides and concave base. It measured 0.77metres in width and 0.23metres in depth and was filled by context (2905) comprising firmly compacted orange-grey clay-sand-silt with infrequent iron pan and round pebbles.

Trench 31 (Figures)

5.3.8 Trench 31 was placed in north-eastern part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.51metres in depth. It exposed natural geology context (3103) comprising firmly compacted yellow to orange-grey clay-silt with infrequent pebbles and flint gravel. Trench has exposed south eastern edge of a Holloway. Feature [3104] comprised WNW-ESE aligned linear cut which was not excavated in this trench. It measured 7metres in width and 0.25metres in depth and was filled by context (2405) comprising firmly compacted orange-grey clay-sand-silt with chalk flecks.

Trench 32 (Figures)

5.3.9 Trench 32 was placed in north-eastern part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.49metres in depth. It exposed natural geology context (3203) comprising firmly compacted yellow to orange-grey clay-silt with infrequent pebbles and flint gravel. Trench has exposed two ditches and Holloway. Feature [3204] comprised NW-SE aligned linear cut with moderate sides and concave base. It measured 0.8 metres in width and 0.2 metres in depth and was filled by context (3205) comprising firmly compacted orange-grey clay-sand-silt with infrequent iron pan and round pebbles. Ditch [3206] was NW-SE aligned linear cut with moderate sides and concave base. It measured 0.78 metres in width and 0.19 metres in depth and was filled by context (3207) which was firmly compacted mid brownish grey sandy silt with fair amount of subangular stones up to 150 mm and occasional manganese. Fill derived as result from gradual overtime silting process. Both features were capped by 7-9metres wide Holloway. Feature [3208] comprised wide but shallow NW-SE aligned linear cut with gradual break of slope at top, moderately sloped concave sides and gradual break of slope at base leading to flat base. It measured 9metres in width and 0.16metres in depth and was filled by context (3211) comprising firmly compacted orange-brown clay-sand-silt with moderate manganese and occasional angular stones.

Trench 53 (Figures)

5.3.10 Trench 53 was placed in south-eastern part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.51metres in depth. It exposed colluvium capping natural geology context (5303) comprising firmly compacted yellow to orange-grey clay-silt with infrequent pebbles and flint gravel. Two geological test-pits were dug to assess the colluvium and exposed Pit [5304] which was oval in plan with gradual break of slope at top, steep convex sides and gradual break of slope at base leading to flat base. It measured 2metres by 2 metres and 0.6metres in depth and was filled by two fills. Primary deposit (5305) was moderately compacted mid redish brown clayey silt with occasional subangular stones up to 40 mm. Fill derived as result from collapse of feature side. It was capped by [5306] comprising moderately compacted mid brownish grey loamy silt with occasional angular and subangular stones up to 90 mm and occasional manganese. Fill derived as result from gradual overtime silting processes.

Trench 56 (Figures)

5.3.11 Trench 56 was placed in north-western part of the site in NNE-SSW alignment and measured 12.5metres in length by 1.8metres in width and 0.46metres in depth. It exposed natural geology context (5603) comprising firmly compacted yellow to orange-grey clay-silt with infrequent pebbles and flint gravel. Trench has exposed curvilinear ditch [5604] comprising linear cut in NW-SE alignment with steep sides lading to concave base. It measured 1.8metres in width and 0.75metres in depth and was filled by a sequence comprising five deposits. Primary fill (5605) was firmly compacted, mid greyish brown clayey silt 90% with occasional flint and worked flint. Next in turn was fill (5606) which was firmly compacted mid orangey brown clayey silt 90%. Another fill (5607) was firmly compacted mid orangey brown clayey silt 90%. Another fill (5607) was firmly compacted mid orangey brown clayey silt 90%. Another fill (5607) was firmly compacted dark violet brown (manganese) mottled with light grey, silt. At the base context is light grey with brown mottling. Inclusions were subangular and angular flint of size less than 150mm. few worked flint were recovered from this context. Material was derived from the surrounding area where vegetation was present. Lastly it was sealed-off by top fill (5609) which comprised firmly compacted mid orangey brown silty 90% loam with occasional angular and subangular nodular flint of size less then 100mm, few worked refuse flakes and small lumps of burnt earth.

Trench 58 (Figures)

5.3.12 Trench 58 was placed in north-western part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.48metres in depth. It exposed natural geology context (5803) comprising firmly compacted yellow to orange-grey clay-silt with infrequent pebbles and flint gravel. Trench has exposed ditch [5804] in NE-SW alignment. Feature comprised NE-SW aligned linear cut with moderate sides and concave base. It measured 0.9metres in width and 0.2metres in depth and was filled by context (5805) comprising firmly compacted orange-brown clay-sand-silt with infrequent angular stones. Pit [5806] comprised sub-circular cut with shallow sides and flat slightly uneven base. It measured 3.1metres in width and 0.16metres in depth and was filled by context (5807) comprising firmly compacted brown-grey to orange-grey clay-sand-silt with infrequent angular stones and chalk flecks.

Trench 63 (Figures)

5.3.13 Trench 63 was placed in north-western part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.49metres in depth. It exposed natural geology context (6303) comprising firmly compacted yellow to orange-grey clay-silt with frequent pebbles and flint gravel. Trench has exposed Ditch [6304] comprising linear shape in plan in NE-SW alignment with steep irregular sides and undercut on east part of south side, leading to a flat base. It measured 2.2metres in width and 0.59metres in depth and was filled by a sequence comprising 6 deposits. The lowest stratigraphically was fill (6305) and comprised firmly compacted, mid yellowish brown silt with occasional manganese and iron spots. Next was (6306) which comprised firmly compacted, mid brownish grey clayey silt with frequent

manganese and iron spots, occasional angular and subangular nodular flint of size less than 150mm. Archaeological inclusions comprised worked flint including serrated blade, and rare burnt flint - pot boilers. That was capped by (6307) which was firmly compacted mid orangey brown silty 90% loam with occasional flint. Next in turn was (6308) which comprised firmly compacted light grey mottled mid brown sandy silt with occasional flint, moderate iron manganese spots and rare small burnt flint. Large mammal molar was recovered but it disintegrated into powder when lifted up the ground. Subsequently it was capped by (6309) which was firmly compacted mid greyish brown silty 90% loam with frequent manganese spots and moderate angular and subangular nodular flint of size less than 150mm. A number of worked flints were recovered alongside occasional burnt flint-pot boilers. Lastly it was capped on top by (6310) comprising firmly compacted mid orangey brown silty 90% loam with abundant nodular flint of size less than 150mm, occasional burnt flint and numerous worked flints. Also a gravelled trackway 6312 was exposed in this trench. Linear spread of medium-size angular stones in NW-SE alignment measured 4metres in width.

Trench 64 (Figures)

5.3.14 Trench 64 was placed in north-western part of the site in WNW-ESE alignment and measured 25metres in length by 1.8metres in width and 0.47metres in depth. It exposed natural geology context (6403) comprising firmly compacted yellow to orange-grey clay-silt with moderate pebbles and flint gravel. Trench has exposed Ditch [6404]/ [6406] in NW-SE alignment. Feature had moderately sloping sides and concave base and measured 1-1.2metres in width and 0.26metres in depth and was filled by context (6405)/ (6406) which was firmly compacted orange-grey clay-sand-silt with moderate angular stones. A patch of flint gravel, potentially remains of a trackway, occupying small hollow was recorded as [6410] and was truncated by Pit [6408] comprising sub-circular cut with shallow sides and uneven base. It measured 3.07metres in width and 0.1metres in depth and was filled by (6409) which was firmly compacted orange grey clay sand-silt with infrequent pebbles and moderate angular stones.

Trench 65 (Figures)

5.3.15 Trench 65 was placed in north-western part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.49metres in depth. It exposed natural geology context (6503) comprising firmly compacted yellow to orange-grey clay-silt with moderate pebbles and flint gravel. Trench has exposed Ditch [6504] comprising NE-SW aligned linear cut with moderate sides and concave base. It measured 1metre in width and 0.25metres in depth and was filled by (6505) comprising firmly compacted orange-grey sand-silt with infrequent angular stones. Trackway [6506] comprised NW-SE aligned linear cut with shallow sides and

undulated base. It measured 9metres in width and 0.27metres in depth and was filled by (6507) comprising firmly compacted brown-grey sand-silt with moderate manganese and angular stones. Discussed above Holloway was truncated and capped by later metaled trackway [6508] comprising shallow linear cut in NW-SE alignment backfilled with flint aggregate.

Trench 67 (Figures)

5.3.16 Trench 67 was placed in north-western part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.49metres in depth. It exposed natural geology context (6703) comprising firmly compacted yellow to orange-grey clay-silt with moderate pebbles, flint gravel and large patches of frequent flint gravel. Trench has exposed Ditch [6704] comprising NE-SW aligned linear cut with moderate sides and concave base. It measured 1.13metres in width and 0.28metres in depth and was filled by (6705) comprising firmly compacted orange-grey sand-silt with moderate sides and concave base. It measured 0.97metres in width and 0.21metres in depth and was filled by (6705) comprising firmly compacted orange-grey sand-silt with moderate sides and concave base. It measured 0.97metres in width and 0.21metres in depth and was filled by (6705) comprising firmly compacted orange-grey sand-silt with moderate angular stones and concave base. It measured 0.97metres in width and 0.21metres in depth and was filled by (6705) comprising firmly compacted orange-grey sand-silt with moderate angular stones and concave base.

Trench 70 (Figures)

5.3.17 Trench 70 was placed in north-western part of the site in WNW-ESE alignment and measured 25metres in length by 1.8metres in width and 0.47metres in depth. It exposed natural geology context (7003) comprising firmly compacted yellow to orange-grey clay-silt with moderate pebbles, flint gravel and large patches of frequent flint gravel with silt. Trench has exposed Ditch [7004] comprising NW-SE aligned linear cut with shallow sides and concave base. It measured 2.15metres in width and 0.18metres in depth and was filled by (7005) comprising firmly compacted orange-grey sand-silt with moderate angular stones.

Trench 71 (Figures)

5.3.18 Trench 71 was placed in north-western part of the site in WNW-ESE alignment and measured 25metres in length by 1.8metres in width and 0.48metres in depth. It exposed natural geology context (7103) comprising firmly compacted yellow to orange-grey clay-silt with moderate pebbles and flint gravel. Trench has exposed potential metalled trackway so a 9.6metres long extension perpendicular to linear feature was excavated to better investigated exposed remains. Trackway [7104] comprised NE-SW aligned linear cut with shallow sides and undulating/ uneven base. It measured 9.2metres in width and 0.17metres in depth and was filled by (7105) which was a mixture of sand-silt and flint gravel with medium size aggregate. Additionally two geological test-pits were excavated in this trench to ensure consistency of

exposed parent material and to dismiss potential colluvium deposit capping archaeology underneath.

Trench 72 (Figures)

5.3.19 Trench 72 was placed in north-western part of the site in WNW-ESE alignment and measured 25metres in length by 1.8metres in width and 0.49metres in depth. It exposed natural geology context (7203) comprising firmly compacted yellow to orange-grey clay-silt with moderate pebbles and flint gravel. Trench has exposed Ditch [7204] comprising N-S aligned linear cut with moderately sloping western side and shallow eastern side gradually breaking into slightly concave base. It measured 1.4 metres in width and 0.29 metres in depth and was filled by (7205) which was softly compacted dark brown silt with occasional subangular and angular flint of size less then 90mm. A few fragments of pottery sherds and worked flint pieces were recovered from this context. Oval Pit or Ditch terminus [7206] comprised SW terminus of the NE-SW aligned small ditch with moderate sides and slightly concave base. It measured 0.55metres in width and 0.15metres in depth and was filled by (7207) which was firmly compacted mid reddish brown with occasional light grey mottling, silt with occasional angular stones. Ditch [7208] comprised SSW-NNE aligned linear cut with near vertical sides and flat base. It measured 0.92 metres in width and 0.19 metres in depth and was filled by (7209) which was softly compacted mid brown silt with occasional angular flint of size less than 100mm. At the base flint gravel (angular and subangular of size less than 100m, average size 50mm). Two refuse flint flecks were recovered from this context.

Trench 91 (Figures)

5.3.20 Trench 91 was placed in north-western part of the site in WNW-ESE alignment and measured 7metres in length by 1.8metres in width and extension measured 9.5metres in length and 3.6 metres in width. Trench was 0.52metres deep. It exposed natural geology context (9103) comprising firmly compacted yellow to orange-grey clay-silt with moderate pebbles and flint gravel. Trench has confirmed the course of metaled trackway 9108 revealed in Trench 63 and exposed Pit [9104] comprising NE-SW aligned oval cut with sharp break of slope at the top, near vertical concave sides and gradual break of slope at base leading to stepped base comprising gently sloping flat shelves with a deeper concave area in the middle. It measured 0.95metres in diameter and 0.47metres in depth and was filled by a sequence comprising 3 deposits. Lowest was (9105); soft mid reddish brown silty gravel with rare charcoal flecks, frequent angular and subangular stones up to 100mm, frequent burnt earth (material surrounding earthen kiln structure). Fill derived as result from deliberated backfill. Next in turn was context (9106); firmly compacted very dark greyish brown loamy silt with frequent charcoal flecks, occasional angular, rounded and subangular flint up to 20 mm. Fill derived as result from deliberated backfill and was capped on top by (9107) comprising compacted brownish grey loamy gravel with angular, rounded and subangular flint stones up to 100mm and occasional pot sherds. All fills derived as result from deliberated backfill.

Trench 92 (Figures)

5.3.21 Trench 92 was placed in north-western part of the site in WNW-ESE alignment and measured 7.2metres in length by 1.8metres in width and 0.46metres in depth. It exposed natural geology context (9203) comprising firmly compacted yellow to orange-grey clay-silt with moderate pebbles and flint gravel and patches of frequent gravel in silt matrix. Trench has exposed Ditch [9204] comprising N-S aligned linear cut with moderately sloping sides gradually breaking into slightly concave base. It measured 2.04metres in width and 0.2metres in depth and was filled by (9205) which was softly compacted dark brown silt with occasional subangular and angular flints.

Trench 93 (Figures)

5.3.22 Trench 93 was placed in north-western part of the site in WNW-ESE alignment and measured 10metres in length by 1.8metres in width and 0.48metres in depth. It exposed natural geology context (9303) comprising firmly compacted yellow to orange-grey clay-silt with moderate pebbles and flint gravel. Trench has exposed Ditch [9304] comprising E-W alignment linear cut with shallow sides and concave base. Feature was very poorly visible as its fill looks almost like natural. It measured 1.8metres in width by 0.23metres in depth and was filled by (9305) which was dry hard sunbaked on top otherwise soft, mid brown silt with moderate angular and subangular nodular flint of size less than 100mm, very rare burnt flint. A bag of struck flint and flakes together with few abraded small sherds of pot was recovered. Frequent bioturbations consisted of earthworm pipes, small roots and dead mid roots. Holloway [9306] comprised NW-SE aligned linear cut with shallow to moderate sides leading to the flat base. Feature was very poorly visible as its fill looks almost like surrounding natural which is slightly more reddish.

Trench 94 (Figures)

5.3.23 Trench 94 was placed in north-western part of the site in NNW-SSE alignment and measured 10.6metres in length by 1.8metres in width and 0.51metres in depth. It exposed natural geology context (9403) comprising firmly compacted yellow to orange-grey clay-silt with moderate pebbles and flint gravel and patches of frequent flint gravel. Trench has exposed Ditch [9404] comprising NE-SW aligned linear cut with shallow sides and concave base. It measured 0.97metres in width and 0.17metres in depth and was filled by (9405) which was firmly compacted mid brown sandy silt with occasional flints.

Trench 95 (Figures)

5.3.24 Trench 95 was placed in north-western part of the site in NE-SW alignment and measured 10.6metres in length by 1.8metres in width and 0.49metres in depth. It exposed natural geology context (9503) comprising firmly compacted yellow to orange-grey clay-silt with moderate pebbles and flint gravel. Trench has confirmed potential ring ditch investigated in Trench 56.

5.4 Archaeological Narrative – Negative and unexcavated Trenches Trench 21 (Figures)

5.4.1 Trench 21 was placed in north-eastern part of the site in WNW-ESE alignment and measured 20metres in length by 1.8metres in width and 0.48metres in depth. It exposed natural geology context (2103) comprising firmly compacted yellow to orange-grey clay-silt with frequent pebbles and flint gravel. No archaeological cuts, artefacts or deposits were exposed here.

Trench 26 (Figures)

5.4.2 Trench 26 was placed in north-western part of the site in NNW-SSE alignment and measured 25metres in length by 1.8metres in width and 0.47metres in depth. It exposed natural geology context (2603) comprising firmly compacted yellow to orange-grey clay-silt with frequent pebbles and flint gravel. No archaeological cuts, artefacts or deposits were exposed here.

Trench 30 (Figures)

5.4.3 Trench 30 was placed in central part of the site in E-W alignment but couldn't be excavated due to badger exclusion zone.

Trench 33 (Figures)

5.4.4 Trench 33 was placed in central part of the site in N-S alignment but couldn't be excavated due to badger exclusion zone.

Trench 34 (Figures)

5.4.5 Trench 34 was placed in north-eastern part of the site in E-W alignment and measured 25metres in length by 1.8metres in width and 0.51metres in depth. It exposed natural geology context (3403) comprising firmly compacted yellow to orange-grey clay-silt with occasional pebbles and flint gravel. No archaeological cuts, artefacts or deposits were exposed here.

Trench 35 (Figures)

5.4.6 Trench 35 was placed in north-eastern part of the site in N-S alignment and measured 25metres in length by 1.8metres in width and 0.52metres in depth. It exposed natural geology context (3503) comprising firmly compacted yellow to orange-grey clay-silt with occasional pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 36 (Figures)

5.4.7 Trench 36 was placed in north-eastern part of the site in NNW-SSE alignment and measured 21metres in length by 1.8metres in width and 0.54metres in depth. It exposed natural geology context (3603) comprising firmly compacted yellow to orange-grey clay-silt with frequent pebbles and flint gravel. No archaeological cuts, artefacts or deposits were exposed here.

Trench 37 (Figures)

5.4.8 Trench 37 was placed in north-western part of the site in NNE-SSW alignment and measured 28metres in length by 1.8metres in width and 0.5metres in depth. It exposed natural geology context (3703) comprising firmly compacted yellow to orange-grey clay-silt with frequent pebbles and flint gravel. No archaeological cuts, artefacts or deposits were exposed here.

Trench 38 (Figures)

5.4.9 Trench 38 was placed in north-western part of the site in WNW-ESE alignment and measured 25metres in length by 1.8metres in width and 0.48metres in depth. It exposed natural geology context (3803) comprising firmly compacted yellow to orange-grey clay-silt with frequent pebbles and flint gravel. No archaeological cuts, artefacts or deposits were exposed here.

Trench 39 (Figures)

5.4.10 Trench 39 was placed in central part of the site in E-W alignment but couldn't be excavated due to badger exclusion zone.

Trench 40 (Figures)

5.4.11 Trench 40 was placed in central part of the site in N-S alignment but couldn't be excavated due to badger exclusion zone.

Trench 41 (Figures)

5.4.12 Trench 41 was placed in south-central part of the site in E-W alignment but couldn't be excavated due to badger exclusion zone.

Trench 42 (Figures)

5.4.13 Trench 42 was placed in south-eastern part of the site in N-S alignment and measured 25metres in length by 1.8metres in width and 0.52metres in depth. It exposed natural geology context (4203) comprising firmly compacted yellow to orange-grey clay-silt with occasional pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 43 (Figures)

5.4.14 Trench 43 was placed in south-eastern part of the site in WNW-ESE alignment and measured 25metres in length by 1.8metres in width and 0.55metres in depth. It exposed natural geology context (4303) comprising firmly compacted yellow to orange-grey clay-silt with occasional pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 44 (Figures)

5.4.15 Trench 44 was placed in south-eastern part of the site in N-S alignment and measured 25metres in length by 1.8metres in width and 0.54metres in depth. It exposed natural geology context (4403) comprising firmly compacted yellow to orange-grey clay-silt with occasional pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 45 (Figures)

5.4.16 Trench 45 was placed in south-eastern part of the site in E-W alignment but couldn't be excavated due to a large spoil heap present.

Trench 46 (Figures)

5.4.17 Trench 46 was placed in south-eastern part of the site in N-S alignment and measured 25metres in length by 1.8metres in width and 0.52metres in depth. It exposed natural geology context (4603) comprising firmly compacted yellow to orange-grey clay-silt with occasional pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 47 (Figures)

5.4.18 Trench 47 was placed in south-eastern part of the site in WNW-ESE alignment and measured 25metres in length by 1.8metres in width and 0.55metres in depth. It exposed natural geology context (4703) comprising firmly compacted yellow to orange-grey clay-silt with occasional pebbles. Parent material was capped by colluvium therefore three geological test-pits were excavated here to evaluate sealing deposit. No archaeological cuts, artefacts or deposits were exposed here.

Trench 48 (Figures)

5.4.19 Trench 48 was placed in south-eastern part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.52metres in depth. It exposed natural geology context (4803) comprising firmly compacted yellow to orange-grey clay-silt with occasional pebbles. Parent material was capped by colluvium therefore two geological test-pits were excavated here to evaluate concealing deposit. No archaeological cuts, artefacts or deposits were exposed here.

Trench 49 (Figures)

5.4.20 Trench 49 was placed in south-eastern part of the site in WNW-ESE alignment and measured 25metres in length by 1.8metres in width and 0.49metres in depth. It exposed natural geology context (4903) comprising firmly compacted yellow to orange-grey clay-silt with occasional pebbles. Parent material was capped by colluvium therefore two geological test-pits were excavated here to evaluate hill-wash deposit. No archaeological cuts, artefacts or deposits were exposed here.

Trench 50 (Figures)

5.4.21 Trench 50 was placed in south-eastern part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.52metres in depth. It exposed natural geology context (5003) comprising firmly compacted yellow to orange-grey clay-silt with occasional pebbles. Parent material was capped by colluvium therefore a geological test-pit was excavated at its southern end to evaluate concealing deposit. No archaeological cuts, artefacts or deposits were exposed here.

Trench 51 (Figures)

5.4.22 Trench 51 was placed in south-eastern part of the site in WNW-ESE alignment and measured 25metres in length by 1.8metres in width and 0.49metres in depth. It exposed natural geology context (5103) comprising firmly compacted yellow to orange-grey clay-silt with occasional pebbles. Parent material was capped by colluvium therefore a geological test-pit was excavated here to evaluate hill-wash deposit. No archaeological cuts, artefacts or deposits were exposed here.

Trench 52 (Figures)

5.4.23 Trench 52 was placed in south-eastern part of the site in NNE-SSW alignment and measured 20metres in length by 1.8metres in width and 0.52metres in depth. It exposed natural geology context (5203) comprising firmly compacted yellow to orange-grey clay-silt with occasional pebbles. Two natural features were tested but no archaeological cuts, artefacts or deposits were exposed here.

Trench 54 (Figures)

5.4.24 Trench 54 was placed in southern-central part of the site in N-S alignment but couldn't be excavated due to a badger exclusion zone.

Trench 55 (Figures)

5.4.25 Trench 55 was placed in south-eastern part of the site in NNE-SSW alignment and measured 20metres in length by 1.8metres in width and 0.52metres in depth. It exposed natural geology context (5503) comprising firmly compacted yellow to orange-grey clay-silt with occasional pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 56 (Figures)

5.4.26 Trench 56 was placed in south-eastern part of the site in NNE-SSW alignment but couldn't be excavated due to a large spoil heap present.

Trench 57 (Figures)

5.4.27 Trench 57 was placed in north-western part of the site in E-W alignment and measured 25metres in length by 1.8metres in width and 0.54metres in depth. It exposed natural geology context (5703) comprising firmly compacted yellow to orange-grey clay-silt with occasional pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 59 (Figures)

5.4.28 Trench 59 was placed in north-western part of the site in E-W alignment and measured 25metres in length by 1.8metres in width and 0.51metres in depth. It exposed natural geology context (5903) comprising firmly compacted yellow to orange-grey clay-silt with occasional pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 60 (Figures)

5.4.29 Trench 60 was placed in north-western part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.53metres in depth. It exposed natural geology context (6003) comprising firmly compacted yellow to orange-grey clay-silt with occasional pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 61 (Figures)

5.4.30 Trench 61 was placed in north-western part of the site in E-W alignment and measured 18metres in length by 1.8metres in width and 0.52metres in depth. It exposed natural geology

context (6103) comprising firmly compacted yellow to orange-grey clay-silt with occasional pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 62 (Figures)

5.4.31 Trench 62 was placed in north-western part of the site in NNW-SSE alignment and measured 25metres in length by 1.8metres in width and 0.49metres in depth. It exposed natural geology context (6203) comprising firmly compacted yellow to orange-grey clay-silt with occasional pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 66 (Figures)

5.4.32 Trench 66 was placed in north-western part of the site in NE-SW alignment and measured 20metres in length by 1.8metres in width and 0.57metres in depth. It exposed natural geology context (6603) comprising firmly compacted yellow to orange-grey clay-silt with frequent flint gravel and pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 68 (Figures)

5.4.33 Trench 68 was placed in north-western part of the site in NW-SE alignment and measured 25metres in length by 1.8metres in width and 0.54metres in depth. It exposed natural geology context (6803) comprising firmly compacted yellow to orange-grey clay-silt with occasional pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 69 (Figures)

5.4.34 Trench 69 was placed in north-western part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.51metres in depth. It exposed natural geology context (6903) comprising firmly compacted yellow to orange-grey clay-silt with frequent flint gravel and pebbles at eastern half of this trench. No archaeological cuts, artefacts or deposits were exposed here.

Trench 73 (Figures)

5.4.35 Trench 73 was placed in north-western part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.52metres in depth. It exposed natural geology context (7303) comprising firmly compacted yellow to orange-grey clay-silt with frequent flint gravel and pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 74 (Figures)

5.4.36 Trench 74 was placed in north-western part of the site in WNW-ESE alignment and measured25metres in length by 1.8metres in width and 0.48metres in depth. It exposed natural geology

context (7403) comprising firmly compacted yellow to orange-grey clay-silt with frequent flint gravel and pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 75 (Figures)

5.4.37 Trench 75 was placed in north-western part of the site in WNW-ESE alignment and measured 25metres in length by 1.8metres in width and 0.5metres in depth. It exposed natural geology context (7503) comprising firmly compacted yellow to orange-grey clay-silt with frequent flint gravel and pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 76 (Figures)

5.4.38 Trench 76 was placed in south-western part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.48metres in depth. It exposed natural geology context (7603) comprising firmly compacted yellow to orange-grey clay-silt with occasional flint gravel and pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 77 (Figures)

5.4.39 Trench 77 was placed in south-western part of the site in WNW-ESE alignment and measured 25metres in length by 1.8metres in width and 0.52metres in depth. It exposed natural geology context (7703) comprising firmly compacted yellow to orange-grey clay-silt with occasional flint gravel and pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 78 (Figures)

5.4.40 Trench 78 was placed in south-western part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.48metres in depth. It exposed natural geology context (7803) comprising firmly compacted yellow to orange-grey clay-silt with occasional flint gravel and pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 79 (Figures)

5.4.41 Trench 79 was placed in south-western part of the site in NW-SE alignment and measured 25metres in length by 1.8metres in width and 0.53metres in depth. It exposed natural geology context (7903) comprising firmly compacted yellow to orange-grey clay-silt with occasional flint gravel and pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 80 (Figures)

5.4.42 Trench 80 was placed in south-western part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.49metres in depth. It exposed natural geology

context (8003) comprising firmly compacted yellow to orange-grey clay-silt with occasional flint gravel and pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 81 (Figures)

5.4.43 Trench 81 was placed in south-western part of the site in WNW-ESE alignment and measured 25metres in length by 1.8metres in width and 0.56metres in depth. It exposed natural geology context (8103) comprising firmly compacted yellow to orange-grey clay-silt with occasional flint gravel and pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 82 (Figures)

5.4.44 Trench 82 was placed in south-western part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.52metres in depth. It exposed natural geology context (8203) comprising firmly compacted yellow to orange-grey clay-silt with occasional flint gravel and pebbles. No archaeological cuts, artefacts or deposits were exposed here

Trench 83 (Figures)

5.4.45 Trench 83 was placed in south-western part of the site in NW-SE alignment and measured 25metres in length by 1.8metres in width and 0.49metres in depth. It exposed natural geology context (8303) comprising firmly compacted yellow to orange-grey clay-silt with occasional flint gravel and pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 84 (Figures)

5.4.46 Trench 84 was placed in south-western part of the site in NW-SE alignment and measured 25metres in length by 1.8metres in width and 0.53metres in depth. It exposed natural geology context (8403) comprising firmly compacted yellow to orange-grey clay-silt with occasional flint gravel and pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 85 (Figures)

5.4.47 Trench 85 was placed in south-western part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.47metres in depth. It exposed natural geology context (8503) comprising firmly compacted yellow to orange-grey clay-silt with occasional flint gravel and pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 86 (Figures)

5.4.48 Trench 86 was placed in south-western part of the site in WNW-ESE alignment and measured 25metres in length by 1.8metres in width and 0.51metres in depth. It exposed natural geology

context (8603) comprising firmly compacted yellow to orange-grey clay-silt with occasional flint gravel and pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 87 (Figures)

5.4.49 Trench 87 was placed in south-western part of the site in NNE-SSW alignment and measured 25metres in length by 1.8metres in width and 0.54metres in depth. It exposed natural geology context (8703) comprising firmly compacted yellow to orange-grey clay-silt with occasional flint gravel and pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 88 (Figures)

5.4.50 Trench 88 was placed in south-western part of the site in NW-SE alignment and measured 25metres in length by 1.8metres in width and 0.47metres in depth. It exposed natural geology context (8803) comprising firmly compacted yellow to orange-grey clay-silt with occasional flint gravel and pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 89 (Figures)

5.4.51 Trench 89 was placed in south-western part of the site in NW-SE alignment and measured 25metres in length by 1.8metres in width and 0.52metres in depth. It exposed natural geology context (8903) comprising firmly compacted yellow to orange-grey clay-silt with occasional flint gravel and pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 90 (Figures)

5.4.52 Trench 90 was placed in south-western part of the site in NNE-SSW alignment and measured 20metres in length by 1.8metres in width and 0.49metres in depth. It exposed natural geology context (9003) comprising firmly compacted yellow to orange-grey clay-silt with occasional flint gravel and pebbles. No archaeological cuts, artefacts or deposits were exposed here.

Trench 96 (Figures)

5.4.53 Trench 96 was placed in south-western part of the site in NNE-SSW alignment and measured 12metres in length by 1.8metres in width and 0.53metres in depth. It exposed natural geology context (9603) comprising firmly compacted yellow to orange-grey clay-silt with occasional flint gravel and pebbles. No archaeological cuts, artefacts or deposits were exposed here.

6 FINDS

6.1 Overview

6.1.1 A relatively small assemblage of archaeological finds comprising pottery sherds, worked lithics,
 CBM and Iron Slag was retrieved during the course of archaeological evaluation. Catalogues are presented in appendices.

6.2 Pottery

- 6.2.1 Pottery sherds were sparsely distributed across evaluation area and their distribution increased significantly within northern part of Phase 2A, mainly along 50yds stretch of NW-SE aligned trackway and at the junction area.
- 6.2.2 Recovered material comprised mostly small sized sherds. A couple of rims, but none of any depth, with no full or significantly large part profiles or substantial schemes of decoration.
- 6.2.3 Majority of the material was dated after 1550BC and more likely around 50 AD and not later than 75 AD. Two small glauconitic sherds from Trench 93 were broadly IA. The glauconitic sandy ware typically occurs in Greensand areas from around 1000 BC onwards, but generally only gets exported beyond its area of manufacture after 200 BC. Much depends on how close, or otherwise, the site is in relation to any areas of Greensand soils. If close by, the glauconitic sherds could date widely. If imported, then more commonly between 200 BC and 60 AD, which could offer a tighter focus for both these sherds between 200 BC and 50 AD, if associated.
- 6.2.4 Another notable 'Belgic' style grog tempered wares comprised 2 everted rims, the form all but identical, in (9105) and (9106) of [9104], potentially dating widely. 1 fresh everted flint tempered rim also in (9105). Some of the sherds in [6504] and (9105) and (9106) of [9104], show notably very similar fabrics and buff surfaces. The latter trait might be expected to occur more commonly after around 0 AD than significantly before, though this potential dating implication should be reviewed against any local and site-based trends which may be able to be established for this assemblage.

6.3 Lithics

- 6.3.1 The major concentration of lithics retrieved during the course of evaluation derived from northern extent of Phase 2A. Implements were collected mainly at two trackways junction and towards an oval enclosure thought to be associated with industrial activity.
- 6.3.2 Several deeply buried flint pieces were retrieved from southern extent of Phase 2C. Few notable although residual early prehistoric pieces derived from colluvium test-pits in Trenches 46, 48 and 49.

- 6.3.3 Further notable early prehistoric pieces derived from Trenches 58, 64 and 92. Possible microburin style flake fragments, M>EN was produced by feature 6406 in Trench 64 and fragment of bladelet, M>EN was retrieved from feature 9204. The latter was described as rare in assemblage.
- 6.3.4 All this material was made using flint. Prominent amongst the remnant cortexes were examples of dirty looking rough buff types. A few examples of thin dark grey-black or greeny grey-black cortxes were noted, along with some smooth strong white cortexes. Much of the raw material was of average quality at best, though some better quality flint was also present, the matrices of these often of mixed black and grey flint, with few cherty inclusions or flaws.
- 6.3.5 Given the likely Later Prehistoric date of the majority of the flintwork present, it would be presumed that the raw materials that were used during that time had been gathered as close to their place of use as was possible. The Earlier Prehistoric flintwork may well have employed better quality raw material that was either carefully selected from the resource available locally, or obtained from slightly further afield, perhaps in areas of chalk geology.

6.4 Iron Slag

- 6.4.1 The collected ironworking waste fragments (565g in total weight) were subjected to visual macroscopic and magnetic analysis. The detailed breakdown is presented in Appendix 6.
- 6.4.2 The presence of in-situ iron-slag is always a reliable indicator of on-site or nearby industrial activity, including iron smithing, and provides a valuable source of information about the kind of ore used, the furnace type and the type of technology implemented during the iron-smelting process.
- 6.4.3 Ironworking waste collected during the course of archaeological evaluation provided reliable evidence for iron production having been carried out with shaft-type furnaces using non-tapping technology. This method was probably used beyond the Roman Period. The ironworks are likely located on-site or in the vicinity certainly housed iron-smelting structures and an associated smithy.

7 ENVIRONMENTAL

7.1 Overview

7.1.1 No bulk soil samples were acquired during the course of evaluation.

8 DISCUSSION, CONCLUSIONS AND RECOMMENDATION

8.1 Introduction

- 8.1.1 The archaeological evaluation (Phases 2A and 2C) on land to the west of Wises Lane, South-West Sittingbourne, Kent, has investigated the extents of the proposed development area using 76 trenches each measuring up to 25m in length.
- 8.1.2 It has to be mentioned that several proposed evaluation trenches were not excavated and some were re-positioned from their original locations due to badger exclusion zones and due to hedgerow protection buffer.
- 8.1.3 Archaeological remains were exposed in 24 Trenches, however most of those remains that were identified are not thought to be significant comprising cultivated and developed agricultural soils and a series of linear features, thought to form a part of a field system thus suggesting that this part of PDA falls within wider Late Iron Age and Roman agricultural landscape.
- 8.1.4 A course of three trackways were investigated and broadly dated to the same Period. First trackway in northwest-southeast alignment is a continuation of the same feature investigated during Phase 1A excavation. Second potential trackway in north-south alignment was identified in Trench 23 and is thought that this path is branching-off at the T-junction of the main one and runs to the south towards potential settlement there as indicated by geophysical survey. Third trackway in northeast-southwest alignment was revealed in Trench 71 and is thought that this branch runs to the north-east towards another potential settlement there.
- 8.1.5 A significant pit was revealed in Trench 91, feature contained metallurgical waste (iron slag) adhered to lumps of baked soil. An oval enclosure of not yet determined function was revealed to the south in Trenches 95 and 56.
- 8.1.6 Additionally colluvium deposits were identified within southern extent of Phase 2C and tested by excavating a series of geological trial holes. An interesting three throw hole was identified under hill wash deposit in Trench 46 and its backfill produced several worked flint pieces including pick or axe dated to Mesolithic Period. Couple of undated but thought to be Late prehistoric pits were exposed under colluvium in test-pit 53A.

8.2 Discussion

8.2.1 Three trackways were revealed within northern extent of Phases 2A and 2C. The main track in NW-SE alignment was revealed in Trenches 25, 24, 32, 31, 65, 93, 64, 91 and 63 and is thought to be a continuation of the same feature investigated during Phase 1A SMS investigation.

- 8.2.2 There was no finds retrieved from trackway and/ or side ditches within Phase 2C however in its further run through Phase 2A the distribution of finds increased and from Trench 65 through 93, 91 and 63 retrieved dating evidence point out Late Iron Age and Early Roman Period.
- 8.2.3 Areas to the north and to the south of main trackway in Area 2C contain insignificant field ditches potentially of the same period suggesting that these remains are part of a wider agricultural landscape.
- 8.2.4 Another trackway in NE-SW alignment was identified in northern extent of Phase 2A (Trench 71). Feature is branching-off and heading towards potential settlement to the northeast.
- 8.2.5 Potential third trackway in almost N-S alignment was revealed in Trench 23. Feature is heading to the south towards potential settlement there indicated by geophysical survey. (Figure)
- 8.2.6 Colluvium deposits identified on the slope within Phase 2C south were thoroughly tested by excavating a series of geological test pits which hasn't revealed any significant archaeological features underneath. Couple of large undated pits were revealed at southern end of Trench 53 (TP 53 A) and a tree throw hole at northern end of Trench 46. Additionally residual but notable flintwork was exposed during test pit excavation in Trenches 46, 48 and 49. It is worth mentioning that three throw hole in Trench 46 produced pick or axe dated to the Mesolithic Period.
- 8.2.7 A significant oval enclosure was revealed in Trenches 56 and 95. Feature contained frequent lumps of baked soil thus suggesting that this enclosure may have once contained kilns or crop driers inside, however no furnace lining was found during the course of investigation.
- 8.2.8 A Pit revealed in Trench 91 contained iron slag fragments adhered to lumps of baked clay. A definite furnace walls (lining) were found during the course of investigation but these findings were not only limited to this one discrete feature but several other fragments of metallurgical waste were found between the stones comprising metalled surface of a main trackway.
- 8.2.9 Infrequent abraded Bronze Age potsherds were found across proposed development area similarly to recent archaeological evaluation at proposed Rugby Club (Phase 2E) and to recently completed SMS investigation in Phase 1A. This indicates protracted agricultural land use since Bronze Age and throughout Iron Age and Roman Period.

8.3 Conclusion

8.3.1 The archaeological investigation has been successful in fulfilling the primary aims and objectives of the Specification and has assessed the archaeological potential of land intended

for development. The results from this work will be used to aid and inform the Principal Archaeological Officer of any further archaeological mitigation measures that may be necessary in connection with any future development proposals.

- 8.3.2 Significant archaeological remains were identified within northern extent of Phase 2A and those remains comprise oval enclosure exposed in Trenches 56 and 95, metaled trackways and a refuse Pit in Trench 91 containing metallurgical waste.
- 8.3.3 The discovery of refuse Pit in Trench 91 and slag fragments between the stones comprising trackway surface in Trenches 64 and 63 and 91 suggest that iron bloomery furnaces and associated smithy may have been present on-site or in the surrounding area.
- 8.3.4 The investigation has confirmed the absence of any archaeological remains in southern part of Phase 2A and almost entire absence within southern part of Phase 2C of the proposed development area apart from features revealed in geological test-pits in Trenches 46 and 53.
- 8.3.5 A number of worked lithics were retrieved during colluvium test-pitting in southern part of Area 2C but majority have had a dull edges and break outs thus suggesting that they are residual in evaluated hill wash deposit.

8.4 Recommendation

- 8.4.1 There is no recommendation for further work within southern extent of Phase 2A. Further works in Phase 2C to be decided by Principal Archaeological Officer.
- 8.4.2 Further work that should take place is recommended for northern extent of Phase 2A but only in small open strip areas targeting oval enclosure in Trenches 95 and 56 and trackways junction and refuse pit revealed in Trench 91. The provision should be given to enlarge initially proposed areas if significant archaeological findings will be exposed.
- 8.4.3 The ultimate scope and extend of further mitigation measures will be decided by Principal Archaeological Officer separately in due course.

9 ARCHIVE

9.1 General

9.1.1 The Site archive, which will include paper records, photographic records, graphics and digital data, will be prepared following nationally recommended guidelines (SMA 1995; CIFA 2009; Brown 2011; ADS 2013).

9.1.2 All archive elements will be marked with the site/accession code, and a full index will be prepared. The physical archive comprises 1 file/document case of paper records and A4 graphics. The Site Archive will be retained at SWAT Archaeology offices until such time it can be transferred to a Kent Museum.

10 ACKNOWLEDGMENTS

- 10.1.1 SWAT would like to thank the Client for commissioning the project. Thanks are also extended to Simon Mason, Principal Archaeological Officer at Kent County Council, for his advice and assistance.
- 10.1.2 Peter Cichy, Bartek Cichy and Dan Leaver from SWAT Archaeology carried out the archaeological fieldwork; illustrations and drone photography were produced by Bartek Cichy. The report was written by Peter Cichy and on behalf of the client project was directed by Dr Paul Wilkinson MCIFA, FRSA of SWAT Archaeology.

11 REFERENCES

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Archaeological Desk-Based Assessment in Advance of the Proposed Development of Land at New Haine Road, Ramsgate, Thanet, Kent. SWAT Archaeology December 2020

SWAT Archaeology 2022 Specification for an Archaeological Evaluation of Land to the west of Wises Lane, South-West Sittingbourne, Kent
12 APPENDIX 1 – HER FORM

Site Name: Land to the west of Wises Lane, South-West Sittingbourne, Kent Phases 2A and 2C SWAT Site Code: WLS2-EV-22 Site Address: As above

Summary. Swale & Thames Survey Company (SWAT Archaeology) were commissioned to undertake an archaeological evaluation on Land to the west of Wises Lane, South-West Sittingbourne, Kent (Phases 2A and 2C). The archaeological programme was monitored by the Principal Archaeological Officer at Kent County Council.

The archaeological evaluation (Phases 2A and 2C) has investigated the extents of the proposed development area using 76 trenches each measuring up to 25m in length.

Archaeological remains were exposed in 24 Trenches, however most of those remains that were identified are not thought to be significant comprising cultivated and developed agricultural soils and a series of linear features, thought to form a part of a field system thus suggesting that this part of PDA falls within wider Late Iron Age and Roman agricultural landscape.

A course of three trackways were investigated and broadly dated to the same Period. First trackway in northwest-southeast alignment is a continuation of the same feature investigated during Phase 1A excavation. Second potential trackway in north-south alignment was identified in Trench 23 and is thought that this trackway is branching-off at the T-junction of the first one and runs to the south towards potential settlement there as indicated by geophysical survey. Third trackway in north-east southwest alignment was revealed in Trench 71 and is thought that this branch runs to the north-east towards another potential settlement there.

A significant pit was revealed in Trench 91, feature contained metallurgical waste (iron slag) adhered to lumps of baked soil. An oval enclosure of not yet determined function was revealed to the south in Trenches 95 and 56.

Additionally colluvium deposits were identified within southern extent of Phase 2C and tested by excavating a series of geological trial holes. An interesting three throw hole was identified under hill wash deposit in Trench 46 and its backfill produced several worked flint pieces including pick or axe dated to Mesolithic Period. Couple of undated but thought to be Late prehistoric pits were exposed under colluvium in test-pit 53A.

The archaeological evaluation has been successful in fulfilling the primary aims and objectives of the Specification and has assessed the archaeological potential of land intended for development. The

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results from this work will be used to aid and inform the Principal Archaeological Officer of any further archaeological mitigation measures that may be necessary in connection with any future development proposals.

Further work is recommended for Phase 2A

District/Unitary: Swale Borough Council Period(s): prehistory, Bronze Age, Late Iron Age, Roman, Post-medieval NGR (centre of site to eight figures) NGR 588260 163800 Type of Archaeological work: Archaeological Evaluation Date of recording: May-July 2023 Unit undertaking recording: Swale and Thames Survey Company (SWAT Archaeology) Geology: Seaford Chalk Formation and Thanet Formation of Sand, Silt and Clay Title and author of accompanying report: Peter Cichy (2023) Archaeological Evaluation of Land to the west of Wises Lane, South-West Sittingbourne, Kent (Phases 2A and 2C) Location of archive/finds: SWAT. Archaeology. Graveney Rd, Faversham, Kent ME13 8UP Contact at Unit: Paul Wilkinson Date: 17/08/2023 / Revised 1 November 2023



Pete Knowles

Lithics Consultation and Curation

Summary Report: Lithics Analysis and Geoarchaeological Interpretation for an Archaeological Evaluation (Phase 2A) on Land to the West of Wises Lane, Sittingbourne, Kent (NGR TQ 88316 63868)

Report by: Mr. Peter Knowles BSc (Hons) Ph.D. (student)

19th June 2023



Plate 1: Trench 75, on land north-west of School Lane, Sittingbourne

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1.2	Topographic & geological context	
1.3	Bedrock Geology	
1.4	Superficial Geology	
1.5	Lithics	
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1 Introduction

1.1 Non-Technical Summary

1.1.1 During the archaeological evaluation on land to the west of Wises Lane, Sittingbourne, angular flints were found in the subsoil of several trenches and a discrete cluster in one trench (75) (Plates: 1&2). The flints were analysed on-site, to ascertain if they could be Palaeolithic. The analysis confirmed that they were naturally fractured, a review of the basal geology at the site confirms that it is underlain by chalk and the clusters of flint have likely accumulated through natural (colluvial) processes (Historic England, 2015).

1.2 Topographic & geological context

1.2.1 The evaluation area for Phase2A (SWAT, 2023) lies on the northern dip slope of the North Downs, the center of Sittingbourne is ~2.5km to the east, the A249 trunk-road ~400m to the North-West.

1.3 Bedrock Geology

1.3.1 The underlying bedrock geology across the Site is cretaceous chalk, mapped by the BGS (http:// www.bgs.ac.uk) as the Seaford Chalk Formation – Chalk a sedimentary bedrock formed between 89.8 and 83.6 million years ago during the Cretaceous period. Also, on the north of the site, there are remnant patches Thanet Formation - Sand, silt and clay sedimentary bedrock formed between 59.2 and 56 million years ago during the Palaeogene period.

1.4 Superficial Geology

1.4.1 The BGS maps areas of Head - Clay and silt, these sedimentary superficial deposits formed between 2.588 million years ago and the present day, during the Quaternary and early Holocene period.



Plate 2: Trench 75, angular flint

- 1.5 Lithics
- 1.5.1 Approximately seventy pieces of flint were retained during the evaluation, these had been recovered from the subsoil of Trench, 71 and 75 (plate 2). They varied in size and morphology, flat flakes ~2-3cm², angular chunks ~5-10cm³. There was a mixture of staining and patination, general stained white, some were patinated with a glossy lustre.
- 1.5.2 On initial inspection these flakes and chunks appear to represent debitage and flake tools, further analysis showed that they didn't exhibit any of the feature associated with anthropogenically modified flint: conchoidal rings, fissures, bulbs of percussion or prepared platforms.
- 1.5.3 The flints were likely eroded from the underlying upper chalk with accumulations occurring due to colluvial slope process, they have been subsequently thermally fractured due to freezing and thawing. The flints all exhibited characteristic fracturing by frost: pot-lid, frost-pitting and columnar or starch fracture (Shepherd, 1972).
- 1.5.4 Whilst the context and concentration of flints in Trench 75 was relatively discrete, this is not uncommon, and these types of flint are very common in the subsoil around the North Downs.

1.5.5 Similarly, patinated and fractured flints were noticed in the spoil heaps of other trenches whilst walking across the site, and particularly the spoil heaps next to bore holes.

2 Conclusion

2.1.1 The flints found in Trench 75, have not been humanly modified, they have likely been eroded from the underlying chalk ridge to the south, they have subsequently been fractured during thermal process (freeze thawing). The site has low Palaeolithic potential.

3 References

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SWAT (2023). Specification for an Archaeological Evaluation of Land at the Proposed Western Link Road including the Chestnut Street Roundabout to the west of Wises Lane, South-West Sittingbourne, Kent

Catalogues of the pottery, ceramic building materials and copper alloy objects, recovered during an archaeological evaluation at Wises Lane, Sittingbourne, Kent

Site Code: WLS2-EV-23

Analyst: Paul Hart Last updated: 03.08.2023

For: Swale and Thames Archaeology Survey Company

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- 1. Period Codes employed
- 2. Quantification and spot-dating of the pottery assemblage
 - 2.1. Methodology
 - 2.2. Abbreviations used in 2.3.
 - 2.3. Catalogue: Quantification and spot-dating of the pottery
 - 2.4. Comments
- 3. Catalogues of the ceramic building materials
 - 3.1. Catalogue of tile
 - 3.2. Catalogue of daub
- 4. Catalogue of copper alloy objects
- 5. Bibliography

1. Period Codes employed

Period	Code	Date (circa))		
Later Prehistoric	LP	1550	-	50	BC
Middle Bronze Age	MBA	1550	-	1350	BC
Mid to Late Bronze Age	MBA-LBA	1350	-	1150	BC
Earliest Iron Age	EIA	1000/900	-	600	BC
Iron Age	IA	1000/900 B	С -	50	AD
Mid to Late Iron Age	MLIA	200	-	50	BC
Late Iron Age	LIA	50	-	0	BC
Latest Iron Age	LIA-ER	0	-	50	AD
Early Roman	ER	50	-	150	AD
Early Medieval	EM	1050	-	1200	AD
Post-Medieval	PM	1525	-	1750	AD
Late Post-Medieval	LPM	1750	-	1900	AD
Modern	MOD	1900+			AD

Dating

> :	To/or later.
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/ : Or/or indicting a preference within a broader range.

2. Quantification and spot-dating of the pottery assemblage

2.1. Methodology

The sherds were examined in good light using a hand lens of x10 magnification and were catalogued on a context, total quantity, bulk weight (calculated to the nearest gram), period, ware type, estimate of the number of vessels per ware, condition and date preference basis. They are listed in date order from the earliest to the latest. No information about the contexts or their stratigraphic relationships was known unless stated. In the notes, the pieces are typically plain or less diagnostic body sherds unless stated otherwise.

All dates given are *circa*.

It should also be noted that:

- All form and decorative pieces are noted and described in the catalogue and their presence is highlighted by the inclusion of the word 'DRAW' (which does not mean that such pieces necessarily need to be drawn for archive level reporting or for publication).
- The material has been bagged by period and separated into DRAW-ables (which do not necessarily need to be drawn for archive or final site reports or publication) and body sherds.

2.2. Abbreviations used in 2.3.

Wear

- F : Fresh/fairly fresh
- L : Light
- M : Moderate
- H : Heavy
- C : Chipped
- S : Splintered/Shattered (1 or both original surfaces missing)

Dating

- > : To/or later
- / : Or/or indicting a preference within a broader range

2.3. Catalogue: Quantification and spot-dating of the pottery

Contex	t			Tote	al sherds	Total weight
Contxt	Information on the r	nature of the context if known.				
Start	Likely commencement date of the context based on the pottery evidence.					
End	Likely end date of the context based on the pottery evidence.					
Dating	Implications.					
Notes	Highlighting elemen	ts, wares and issues of particular not	e.			
Count	Period	Ware Ves	ssels	W	ear L	Date preference
(6310)	[6304]				3 sherds	2 g
Contxt						
Start	Likely after 1550 B	C.				
End	Unclear, potentiall	y residual.				
Dating	Could date widely,	broadly MBA>LIA-ER.				
Notes						
Count	Period	Ware	V	W	Dat	e preference
3	MBA>LIA-ER	Flint tempered	1	S		1550 BC - 50 AD
	Small shattered fragm	ents.				
(6405)	[6404]				5 sherds	9 g
Contxt						
Start	Likely after 1550	BC and potentially after 25/50 A	4D, b	ut c	onsider th	ne nature of the
	context and the ver	rtical distribution, if relevant and	possi	ble.		
End	Unclear, residual.					
Dating	The flint tempered	could date widely. The grog temp	ered	coul	ld also dat	e widely, though
	is more likely to b	e 'Belgic', considering that there	is a p	orece	edence for	such in the site
	assemblage. If so,	its oxidised surface is more likely	y to e		r after 15	BC. The slightly
	sandy sherd proba	DIY dates MLIA>ER and could be a	n exa	mpi	e of a LIA-I	ER>ER SILLY, 25-
Notos	Small sized often spl	intered shords and fragmonts				
Count	Dariod	Ware	V	147	Dat	a proforonco
2		Flint tompored	1	<i>и</i>	Dui	1550 50 BC
	Small sherd and fragm	ent ?coarse natchy oxidised exterior		11		1320-20 DC
2	?LIA-ER>ER	2'Belgic' style grog tempered	1	SM		0-75 AD
	Small sherd and fragm	ent. oxidised ?exterior. sparse fine grits ?	flint.	011		0,0110
1	MLIA>/?LIA-ER>ER	Sparse flint tempered fine sandy	1	Μ		?25-75 AD
	, Small, slightly sandy, v	vith sparse fine grits probably flint, exter	ior br	ownis	sh.	
(6407)	[6406]				5 sherds	5 g
Contxt						
Start	Likely after 1550 B	С.				
End	Unclear, potentiall	y residual.				
Dating	Could date widely,	broadly MBA>LIA-ER.				
Notes				1	T	
Count	Period	Ware	V	W	Dat	e preference
5	MBA>LIA-ER	Flint tempered	1	S		1550 BC - 50 AD
	Small shattered fragm	ents, reduced.				
(6410)					3 sherds	8 g
Contxt						
Start	Likely after 1550 B	C and potentially after 1000 BC.				
End	Unclear, but nothin	ng certainly later than 50 AD and p	ossit	oly b	y 75 BC.	
Dating	Little specific da	ata. Broadly MBA>LIA-ER, the	fre	sher	sherds	perhaps more
	likely/commonly I	A. The lack of any 'Belgic' grogge	d co	uld s	suggest no	thing need date
	after 75 BC, thoug	in this is a minimal collection ar	nd th	e re	lationship	of the 'fresher'
NT -	looking elements t	o the context is questionable.				
Notes	All small, 1 at least r	esidual and, given the size and quant	ity, th	ie re	st might be	t00.

Lown Period Participation 1 MEA-MLIA Flint tempered 1 1 H 1550-50 BC Small, thick, orange exterior. 1 L 1550-50 BC Signall, medium-walled, smoothed surfaces. 1 L 1550/1000 BC - 50 AD Small, medium-walled, smoothed surfaces. 1 L 1550/1000 BC - 50 AD Fragment. 1 L 1550/1000 BC - 50 AD Start Likely after 125 BC and just possibly after around 0 AD. Signat End Nothing certainly after 75 AD. Data preference Data Diff. Litkely after 125 BC and just possibly after around 0 AD than before. Notably similar to some sherds within 19104 and see the comments about this in 19104. Note: Akin in fabric and surface colour to a rim in (9105) and body sherds in (9106), both of 19104. Count Preiod Ware V W Date preference 6 MLIA>ER 'Belgic' style grog tempered 1 CL 125 BC/10-75 AD Start Likely after 100 BC. End Tereid Tg Contxt Unclear, residual. Tg St	Count	Deriod	Ware	V	147	Da	to proforonco
1 MAAMLA Finit tempered 1 1 H 1550-50 BC. 1 MBA>LIA-ER Finit tempered 1 L 1550/1000 BC - 50 AD 1 MBA>LIA-ER Finit tempered 1 L 1550/1000 BC - 50 AD 1 MBA>LIA-ER Finit tempered 1 L 1550/1000 BC - 50 AD 1 MBA>LIA-ER Finit tempered 1 L 1550/1000 BC - 50 AD 1 MBA>LIA-ER Finit tempered 1 L 1550/1000 BC - 50 AD 1 MBA>LIA-ER Finit tempered 1 L 1550/1000 BC - 50 AD 1 Marka for the finit cempered 1 L 1550/1000 BC - 50 AD 1 MBA>LIA-ER Finit tempered 1 L 1550/1000 BC - 50 AD 1 Marka for the finit tempered 1 L 1550/1000 BC - 50 AD 1 Marka for the finit tempered 1 L 1550/1000 BC - 50 AD 1 Marka for the finit tempered 1 C L 125 BC - 75 AD 1 MLA>ER Belgic' style grog tempered 1 H <td></td> <td>MDA: MLIA</td> <td></td> <td colspan="4"></td>		MDA: MLIA					
Mail unk, unk, unige external. 1 L 1550/1000 BC- 50 AD MBA-LIA-ER Flint tempered 1 L 1550/1000 BC- 50 AD Pragment. 1 L 1550/1000 BC- 50 AD Fragment. 1 L 1550/1000 BC- 50 AD Fragment. 6 sherds 33 g Contxit Nothing certainly after 75 AD. more common after around 0 AD than before. Notably similar to some sherds within [9104] and see the comments about this in [9104]. Notes Akin in fabric and surface colour to a rim in (9105) and body sherds in (9106), both of [9104]. Count Period Ware V W Date preference 6 MLIA-SER "Belgic' style grog tempered 1 CL 125 BC/70-75 AD Small thick-walled body sherds, largest with an incised horizontal linear groove, grey-black core with mostly fine black grog, buff surfaces. 7 g Contxt Ikley after 100 BC. End Unclear, residual. Dating Likely after 102 BC and more common after 75 BC. Nutka SE Outt Period Ware V W Date preference 2 MLIA-ER Belgic' style grog tempered 1 H	1	MDA>MLIA	Fillit tellipereu	L	п		1220-20 PC
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	DRAW (not worth drav	wing).				
1	LIA-ER>ER	Silty + sparse flint/grit	1	М		25-75 AD
	Small, thickish, light bi	own, sparse fine flint/grit.				
(9105)	[9104]			5	8 sherds	107 g
Contxt						8
Start	Likely after 125 BC	notentially after 75 BC and just n	ossih	lv af	ter () AD ()	review)
End	Likely by 50 AD	, potentially after 7.5 De and Juse p	05510	ny ui		
Datina	None need he sig	nificantly residual and most an	ıld h	o hr	andly on	townorawy the
Duting	none need be significantly residual and most could be broadly contemporary, the					
	dominance of the	rog tompored fabrics more likely	oftor	75 8	$\frac{125}{20}$	and 50 AD, the
	chows buff surface	which might he expected to each	anter nur m	/JL	commonly	y after around 0
	AD than significant	the before though this should be r	ovio	wod	against an	y local and site
	hacad trands which	a may be able to be established for	thic		agamst an mblaga	ly local and site-
Notos	Mostly 'Dolgio' style	rinay be able to be established for	$\frac{1115}{1115}$		llod and a	Il with amosthed
Notes	Mostly Delgic Style	grog tempered fabrics, the majorit	y unic	K-Wa		
	surfaces. 1 compara	The sum and the second se		1 (01	very limite	a depth) is likely
	from a storage jar o	f Inompson (1982) C6-1 type. Inis	1s a 10	ong II	lved form (Inompson 1982,
	256-267 J, Which is a	in but identical to a reduced grogged	$r_{1}m_{1}$	n (91	106J, while	the buff surfaced
	thick-walled fabric i	s akin to sherds in [6504] and (9106). I S	mail	thick fiint i	cempered everted
	rim, plus an associat	ed sherd, appears freshest of all and	could	l be c	ontempora	ary.
	DRAW: 2 rims (not v	vorth drawing).				
Count	Period	Ware	V	W	Dat	e preference
1	MLIA>LIA-ER	'Belgic' style grog tempered	1	СМ		125 BC - 50 AD
	Small, thick, concave, r	reduced.				
1	MLIA>LIA-ER	'Belgic' style grog tempered	1	Μ		125 BC - 50 AD
	Small, medium-walled	, reduced.				
2	MLIA>LIA-ER	Flint tempered	1	CF		125 BC - 50 AD
	Small thick everted rin	n and small body sherd, frequent small to	o medi	um te	emper, orang	ge on rim top.
	DRAW (not worth drav	wing).	-			
4	MLIA>LIA-ER	'Belgic' style grog tempered	?1	СL		125 BC/?0-50 AD
	3 thick-walled mediun	n sized rims, 2 conjoining to an everted ri	m wit	h a ta	pering exter	rior edge and
	concave neck, broken	above the shoulder (just below the return	n). Lik	ely a '	Thompson (1982) type C6-1
	storage jar, which could a storage jar, which could a storage jar, which could be a storage jar.	d date widely. Mostly fine black grog, gre	ey-bla	ck cor	e and thin n	nostly buff to
	DRAW (not worth dray	wing)	lai gi u	ove p	otentially se	anie vessei.
I	Dialiti (not worth and					
(9106)	[9104]				6 sherds	58 g
Contxt					oblicitus	
Start	Likely after 125 BC	, probably after 75 BC and just pos	ssibly	v afte	er 0 AD (re	view).
End	Unclear, Nothing co	ertainly after 75 AD, though likely	resid	ual t	o some de	gree.
Datina	Solely 'Belgic' sty	le grog tempered sherds, which	woi	ıld k	be expect	ed to dominate
	assemblages after	75 BC. The 1 rim present could da	te wi	delv	, while sor	ne buff surfaced
	body sherds migh	t be expected to occur more co	omm	only	, after aro	und 0 AD than
	significantly befor	e. The potential should be review	ed as	zains	t anv loca	l and site-based
	trends which may	be able to be established for this as	ssem	, blage	e. howeve	r.
Notes	Notable scarred and	potentially residual to some degree	e. 1 re	educe	ed 'Belgic'	style everted rim.
	the form all but ide	entical to an example in (9105); co	ould	date	widely. Bu	iff surfaced body
	sherds from a differ	ent vessel are akin to said rim in (9	105)	, as v	vell as othe	er body sherds in
	[6504].					
Cont	DRAW: 1 rim (not w	or un urawing).	17	147		a
Count	Perioa	Ware (Dalaist states and the second states and the second states and the second states and the second states and the	V	W	Dat	e prejerence
3	MLIA>EK	Beigic Style grog tempered		ιM	<u>1</u>	<u>25//5 BL - 75 AD</u>
	2 conjoin to a mealum should on (just holow the	sized unick-walled rim, tapering to the til	p, con	cave 1	leck, Droker	All scarred
	DRAW (not worth dray	wing)	Juy Sh	iei u Il	Kely relates	. All Stalleu.
3	MLIA>ER	'Belgic' style grog tempered	1	СМ	125	/75 BC/20-75 AD
	Small body. buff surfac	es, grey-black core with mostly fine black	k groø	. Scar	red.	,
	<u> </u>			,		

(9205)	[9204]	204]				5 g
Contxt						
Start	After 3350 BC and perhaps more likely after 1550 BC.					
End	Unclear, residual.					
Dating	Could be MN or L MBA>MBA-LBA or	P. Within the latter, the coarse o EIA.	xidis	ed fa	abric is m	ore likely to be
Notes						
Count	Period	Ware	V	W	Dat	te preference
1	MN/MBA>MLIA	Flint tempered	1	Н		1550-600/50 BC
	Small, thick, coarse, or	ange surfaces.				
(9305)	[9304]			2	2 sherds	9 g
Contxt						
Start	Potentially after 1	00 BC.				
End	Unclear, residual.					
Dating	If related, a date fo	r both between 125 BC and 50 AD	is lik	kely.	Consider	the nature of the
	context and the ve	rtical distribution, if relevant and j	possi	ble.		
Notes	1 small everted flint	tempered rim, more likely MLIA>LL	A-ER,	, cons	idering al	so the presence of
	a 'Belgic' grog temp	ered, though both are worn and resid	dual,	with	no associa	tions guaranteed.
	The flint tempered	has an orangey oxidised exterior, w	hich i	is not	typical of	n 'Belgic' material
	until after 15 BC at l	east and then is still typically confine	d to d	certai	n grog ten	pered vessels.
	DRAW: 1 small rim	(not worth drawing)				
Count	Period	Ware	V	W/	Dat	te nreference
1	MI IASI IA-FR	Flint tempered	1	СН	200/12	25-50 BC /0-50 AD
1	Small rim everted wit	h concave neck occasional fine to mediur	n flint	t dull	orange exte	erior and brown
	interior.			c, aan	orunge ente	
	DRAW (not worth dra	wing).				
1	MLIA>ER	'Belgic' style grog tempered	1	СН		125 BC - 75 AD
	Small.					
(9307)	[9306]			2	2 sherds	2 g
Contxt						
Start	Likely after 1000 BC and potentially after 200 BC.					
End	Unclear, residual.					
Dating	Both broadly IA. T	he glauconitic sandy ware typical	lly oc	curs	in Green	sand areas from
	around 1000 BC	onwards, but generally only g	ets (expoi	rted bey	ond its area of
	manufacture after	200 BC. Much depends on how	clos	e, or	otherwis	se, the site is in
	relation to any ar	eas of Greensand soils. If close by	y, the	e gla	uconitic s	herd could date
	widely. If imported	l, then more commonly between 2	00 B	C and	d 60 AD, v	which could offer
	a tighter focus for	both these sherds between 200 BC	and	50 A	D, if assoc	ciated, though no
NT (associations are gu	laranteed.	N 1			1 1 .1
Notes	Scraps. The glaucon	itic sandy could be and probably is a	Medv	way a	rea produ	ct, though this is a
<u> </u>	minimal sample only	y.	17	147	D	- C
Lount		<i>Wure</i>	V 1		Dat	1000 PC FOAD
1	IA Small fragment	rinit tempered	1	п		1000 BC - 20 AD
1		Clauconitic sandy	1	см	1000	1/2200 BC 60 AD
1	Small shattared reduce	d scrap 2Medway area		3 141	1000	J/:200 DC - 00 AD
	Sman Shattereu reuuc	eu sei ap. : Meuway al ea.				
Totale				50	shards	205 g
101415				J	5 sherus	275 g

2.4. Comments

Mostly small sized sherds. A couple of rims, but none of any depth, with no full or significantly large part profiles or substantial schemes of decoration. Some notes follow.

'Belgic' style grog tempered wares

2 everted rims, the form all but identical, in (9105) and (9106) of [9104], potentially dating widely. 1 fresh everted flint tempered rim also in (9105).

Some of the sherds in [6504] and (9105) and (9106) of [9104], show notably very similar fabrics and buff surfaces. The latter trait might be expected to occur more commonly after around 0 AD than significantly before, though this potential dating implication should be reviewed against any local and site-based trends which may be able to be established for this assemblage.

Glauconitic sandy ware

The 1 tiny fragment in this ware, more likely a Medway area product, could date widely, between 1000 BC and 60 AD if a local product, though from 200 BC to 60 AD if imported. Consideration needs to be given as to whether there are any Greensand soils in close proximity to the site, or not.

3. Catalogues of the ceramic building materials

3.1. Catalogue of tile

Context	Quantity	Weight	Fabric	Period
(9305) [9304]	1	10 g	Slightly sandy	EM>/?PM>LPM
	Small thick	<pre> fragment, </pre>	oxidised with narrow black core, hard.	
(9108) T91	1	3 g	Sandy	EM>LPM
	Small, ill-s	sorted most	tly medium sized coloured sand (clear, grey, pinkish, redd	ish and dark) and
	possible ro	ounded iron	stone, pale orange throughout.	
Totals	1	10 g		

3.2. Catalogue of daub

Context	Quantity	Weight	Fabric	Pottery		
(5608) [5604]	6	33 g	Silty			
	Record or	n the bag as	'Burnt earth'. Rounded nodules, some flattish surfaces, 1 n	nore medium sized		
	and the re	and the rest small, sparse fine sand, orange throughout.				
(9105) [9104]	4	25 g	Silty	75 BC/?0-50 AD		
	Small rounded lumps, some with flattish surfaces, fine silty, with some fine sand, orange throughout.					
Totals	4	25 g				

4. Catalogue of copper alloy objects

Context	Quantity	Weight	Description	Period
TR.65	1	4 g	Miscellaneous Cu alloy object	?/?LPM>MOD
Stone surface				
	Capital 'I' shaped piece with concave sides, possibly broken from a strip of cut-out circles/discs?			
Totals	1	4 g		

5. Bibliography

Thompson I. 1982. Grog-tempered 'Belgic' Pottery of South-eastern England. BAR British Series 108.

A brief review catalogue of the worked lithics, plus catalogues of burnt flint 'potboilers' and slag, recovered during an archaeological evaluation at Wises Lane, Sittingbourne, Kent

Site Code: WLS2-EV-23

Analyst: Paul Hart Last updated: 01.08.2023

For: Swale and Thames Archaeology Survey Company

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 - 1.1. Methodology
 - 1.2. The underlying geology and its implications
 - 1.3. Period Codes employed
 - 1.4. Abbreviations used in 1.5
 - 1.5. Catalogue: Quantification and brief review of the worked lithics
 - 1.6. Contexts with notable contents
 - 1.7. Comments
- 2. Catalogue of burnt flint 'potboilers'
- 3. Catalogue of slag

1. Quantification and brief review of the worked lithics

1.1. Methodology

The information presented was based upon an initial brief review of the worked lithics. The artefacts were examined using a hand lens of x10 magnification and each was considered on its own merits. Details about the nature of the context and any pottery recovered, which informed the interpretation but not the dating of the individual pieces, were noted where known. No cataloguing of the physical traits of the artefacts was conducted at this stage. No overall summary and period-based listing and review is presented at this time.

The brief review format was adopted due to the need for rapid feed-back to aid the swift production of a site report. The material was unwashed, but only slightly dirty. It was not dirty enough that any significant detail was likely to have remained hidden. Due to the brief nature of this review, it would be recommended in any subsequent assessment report which may be written, that it would be ideal if all of the worked lithics were re-catalogued and considered more fully (including recording a selection of the prime physical traits, for preservation by record). For practical necessity however, such work could be focussed upon the more specifically diagnostic elements and any pieces that can be dated by a reliable contemporary relationship with pottery or associated contexts which are tightly dated.

All dates given throughout are *circa*.

1.2. The underlying geology and its implications

This is considered to primarily comprise deposits of 'brickearth' type soils (ie. clays, silts, sands, or combinations of such), with occasional areas of gravels (Peter Cichy *pers. comm.*). Brickearth geology typically does not produce those patinas that are frequently helpful in the identification of residual worked lithics that are otherwise undiagnostic of being so on their own merits. As such, it is considered that none of the worked lithics on this site can be guaranteed to be contemporary with their deposits or horizons on their own merits. The absence of strong obvious patinas also hinders the easy identification of those worked lithics that were re-used at a later date following their original creation and discard.

1.3. Period Codes employed

Period Code Date (circa)	
Mesolithic M 9200 - 40	000 B0
Neolithic N 4000 - 23	300 B0
First/Early/Earlier Neolithic EN 4000 - 33	350/3000 BC
Beaker Period BK 2450 - 17	750 BC
Bronze Age BA 2100 - 10	000/900 BC
Early Bronze Age EBA 2100 - 15	550 BC
Middle Bronze Age MBA 1550 - 13	350 B(
Mid to Late Bronze Age MBA-LBA 1350 - 11	150 BC
Earliest Iron Age EIA 1000/900 - 60	00 B0
Early to Mid Iron AgeEMIA600-35	50 BC

1.4. Abbreviations used in 1.5

Dating

>	:	To/or later
<	:	No later than
/	:	Or/or indicting a preference within a preceding broader range
?	:	Possibly
??	:	Just might be/very slight preference for

Key to abbreviations for notes

А	:	Advanced (patina).	nat	:	Natural.
abr	:	Abrupt (retouch).	nr	:	Near.
adj	:	Adjacent.	obv	:	Obviously.
adv	:	Advanced (patina).	oppos	:	Opposite.
ang	:	Angular.	Р	;	Primary (flake).
В	:	Blade (flake) or Blue (patina).	PP	:	Platform preparation (abrasion).
back	:	Backed.	pat	:	Patina.
bifac	:	Bifacial (retouch).	plat	:	Platform.
BL	:	Bladelet (flake).	poss	:	Possible.
brk	:	Break.	prob	:	Probably.
BW	:	Blue-white (patina).	prx	:	Proximal (flake).
convx	:	Convex.	resid	:	Residual.
cortx	:	Cortex.	ret	:	Retouch.
dentic	:	Denticulate (retouch).	RM	:	Raw material.
dir	:	Direct (retouch).	RU	:	Re-use.
dist	:	Distal (flake).	S	:	Sort, Secondary (flake) or Strong (patina).
dors	:	Dorsal (flake).	sec	:	Section.
Е	:	Early (patina).	SH	:	Short (flake).
eg	:	Example.	signif	:	Significant/ly.
exp	:	Expedient.	sm	:	Small.
fl	:	Flake.	SQ	:	Squat (flake).
frag	:	Fragment.	subseq	:	Subsequent.
G	:	Grey (patina).	term	:	Termination (flake).
incip	:	Incipient (cones of percussion).	Т	:	Tertiary (flake).
inc	:	Including.	triang	:	Triangular.
inv	:	Inverse (retouch).	trunc	:	Truncating/truncated.
irreg	:	Irregular.	u-w	:	Use-wear.
L	:	Long (flake).	util	:	Utilised.
lat	:	Lateral (flake).	Unpat	:	Unpatinated.
lrg	:	Large.	V/v	:	Very.
М	:	Moderate (patina).	vent	:	Ventral (flake).
marg	:	Marginal (retouch).	W	:	White (patina).
med	:	Medium (size).	Y	:	Yellowish (patina).
mod	:	Moderate.			

NB. In the notes, the character of the retouch can be considered as small sized and marginal unless stated otherwise.

1.5. Catalogue: Quantification and brief review of the worked lithics

Context			Total lithics	Total weight
Context:	Information on the nature of the contex	t if known.		
Pottery:	Date of any pottery present or the cera	mic date of the c	ontext if known.	
Notes:	Elements and trends of initial interest.			
Summary:	Dates and relationships to context.			
Patinas:	Mostly unpatinated or yellowy sheen, r	elationships unc	lear given the brick	kearth geology.
Class/Type	Notes/Details	Period	Preference	Re-using
(04) Colluv	ium		3 lithics	100 g
Context:				
Pottery:				
Notes:				
Summary:	Little specific data. 1/2 could be ME if possible.	SA>EMIA+. Cons	sider their horizo	ns of recovery,
Waste	<u> </u>	Period	Preference	Re-using
Flake				
	Lrg fl, much cortx, obliq brk truncates dist e	nd, chips.		
Retouched				
?Denticulate	e/side scraper on natural		MBA>EMIA+	
	Fl-like pot-lid, 1 lat corrtx, other lat thin wit	h some inv abr ret	forming dentic-like	edge.
?Notch	1		??MBA>EMIA+	
	Sm thick fl, dist part brkn, multiple incip	cones on plat. 1 i	notch with some app	oarent abras 1 lat
	oppos cortxd other.			
	0.41		2 lithing	24 a
(3003) $[30$			2 11111115	24 g
Pottory:				
Notes:				
Summary:	Little specific data and all could be r	ecidual		
Waste	Little specific data and an could be i	Period	Proforonco	Re-using
2Shatter/2n	atural	I CHOU	Trejerence	ne using
?IItilised				
Flake – end	scraper			
	Sm prim, dist brks, ?PP (unnecessary?), or f	rom use? .		
	······································			
(5608) [56	04]		4 lithics	44 g
Context:				
Pottery:				
Notes:	1 decent looking medium sized flake, r	esidual, rest sm	all, 1 also possibly	residual. 1 used
	natural, MBA>EMIA+.			
Summary:	Little specific data. 1 possibly M>EBA	A, this residual,	as potentially is a	nother flake. 1
	MBA>EMIA+, relationship to context	unclear.		
Waste		Period	Preference	Re-using
Flake			?M>EBA	
	Decent looking L fl, many pre and post Y pa	t chips, residual.		
Flake				
	Sm, chips and brks.		1	
Shatter				
Retouched				
End scraper			MBA>EMIA+	
	Sm fl-like nat, thickest cortxed 'prx' end sho	ws sm area chippy	y scarring.	
1				

(5804) [58	04]		1 lithic	7 g
Context:				
Pottery:				
Notes:				
Summary:	Little specific data, more likely MBA	>EMIA+ if used,	relationship unc	lear.
?Utilised		Period	Preference	Re-using
Flake – side	scraper		??MBA>EMIA+	
	Sm, thick triang, 1 uncortxd lat sm area sca	rs and chips.		
(5805) [58	04]		1 lithic	1 g
Context:				
Pottery:				
Notes:	L'ule est d'estate de la la MDA. I		<u> </u>	. 1
Summary:	residual.	emia+, relations	mip unclear, tho	ugn potentially
Retouched		Period	Preference	Re-using
Misc. ret. fla	ke			
	Sm, 1 dist corner short length inv semi-abr	ret.		
[5806]			3 lithics	24 g
Context:				
Pottery:				
Notes:	Notable 1 small piece that looks like	the broken prov	ximal end of a po	otential primary
	long/narrow flake or blade with a	strong chalk-soi	l type patina, w	ith a couple of
	unpatinated ?retouched scars/chips on	n 1 lateral. Suspici	ous, however.	
Summary:	Little specific data. 1 instance of a st flake, which would be a rare occurre	trong chalk-soil t ence in the site a	type patina on a semblage if so.	possible struck
Waste		Period	Preference	Re-usina
?Flake				
	Chips.			
Retouched				
?Notch				
	Sm dist frag, dist end sm notch			
?Retouched				
Misc. ret. ?fl	ake/natural		*MBA>EMIA+	??M>EBA
	Sm prim ?flake/?natural, appears like the showing an inv brk and some chips, the p showing an early strong BW pat. Other upp	snapped prx frag art hinging dist en er lat shows couple	from a poss narrov d some dir abras, a unpat dir semi-abr	v fl/B, 1 lower lat ll these and the fl ?ret scars. *If so.
(6306) [63	04]		5 lithics	269 g
Context:				
Pottery:				
Notes:	Medium to large sized thick crude loo broken flake which could, but need not	king pieces and n , date earlier.	atural, plus 1 bett	er looking large
Summary:	Majority likely MBA>EIA and MBA>	EMIA+. Given th	ne quantity, coul	d be related to
	each other and the context, thoug	gh no associatio	ons are guarant	eed, given the
Waste	unuonying geology:	Period	Preference	Re-usina
?Core		I ONOU	?MBA>EMIA+	ne using
	Lrg thick ang chunk, some /fl removal scars	5.		
Retouched				
Adjacent ho	llow and side scraper on natural		MBA>EIA	
	Med sized fl-like nat, 1 'lat' an uneven straig	ght edge and adj ho	llow of semi-abr ret.	
End scraper	· · · · · ·		MBA>EMIA+	
^	Thick fl, broad steep cortxd dist end 2 short	t straight areas of d	ir abr ret.	
?Borer			MBA>EIA	
	Lrg thick ang nat, 1 triang sec pointed corr uneven ret.	ner trimmed to a na	arrower thick blunt	point by semi-abr

?Utilised		Period	Preference	Re-using
Flake fragm	ent			
	Lrg broad medial/dist frag from a lrg broad other lat abr chips along length.	triang sec fl. Dist	end truncated by dir	scars, 1 cortxd lat,
(6309) [63	041		5 lithics	121 g
Context.	~ -]		0 1101100	8
Pottery				
Notes	Nothing quality. Some simply worked t	ools		
Summary:	Little specific data A couple pe	orhans the ma	viority could be	
Summary.	Relationshing unclear given the gool	naps the me	ijority, coura be	
Wasto	Kelationships unclear given the geor	Pariod	Proforanco	Ro-usina
Flako		I erioù	Trejerence	Re-using
Flake	V sm chins			
Elake fragm	ont			
Flake II agiii	Sm chins nry hrk			
Patouchad				
Concovo sid	o coronor	2015		
Colleave sid	e scraper Mod sized thick triang see fl. 1 broad concer	:DA>	::MDA>EIA	
2Hollow.com	meu sizeu tilick tilang sec il, 1 bi dau colicav		$2MRA \ge FMIA \pm$	
: HUHOW SCI	dper	v invacivo fl ccor re	: MIDA>EMIA+	ncavo aroa on tho
	1 thin edge and the edge steepened with a l	ittle ahr ret	childvals creating a co	ficave al ea oli tile
Convex side	scraper	ittle abi Tet.		
CONVEX SILLE	V sm 1 lat steen with corty other lat shows	inv abr ret contin	uing around pry shou	ıldr
				ilui.
(6210) [62	041		15 lithics	227 g
(0310)[030]			15 nunes	J27 g
Dottomu				
Pollery:		la ha alla din alla dina	MDA. D	NATA .
Notes:	2 potential <eba .="" pieces,="" several="" simpl<="" td=""><td>e tools, including</td><td>g a piercer, MBA>E</td><td></td></eba>	e tools, including	g a piercer, MBA>E	
Summary:	ry: Possible N>EBA and MBA>EMIA+ elements, former residual if so, relationship of the			
2		intents, former	residual îl so, reia	ationship of the
5	latter to the context unclear, though	given their qua	intity there is son	ne potential for
	latter to the context unclear, though them to be contemporary. No relation	given their qua	ntity there is son eed however, give	ne potential for en the geology.
Waste	latter to the context unclear, though them to be contemporary. No relation	given their qua nships guarant Period	eed however, give Preference	ne potential for en the geology. Re-using
Waste Flake - ?plat	form rejuvenation flake*	given their qua nships guarant Period	antity there is son eed however, give Preference *?? <eba< td=""><td>ne potential for en the geology. Re-using</td></eba<>	ne potential for en the geology. Re-using
Waste Flake - ?plat	form rejuvenation flake*	given their qua nships guarant Period * <eba if="" intention<="" td=""><td>antity there is son eed however, give Preference *??<eba al.</eba </td><td>ne potential for en the geology. Re-using</td></eba>	antity there is son eed however, give Preference *?? <eba al.</eba 	ne potential for en the geology. Re-using
Waste Flake - ?plat 2 flakes	form rejuvenation flake*	given their qua nships guarant Period * <eba if="" intentiona<="" td=""><td>eshuar ir so, rea antity there is son eed however, give Preference *??<eba< td=""><td>ne potential for en the geology. Re-using</td></eba<></td></eba>	eshuar ir so, rea antity there is son eed however, give Preference *?? <eba< td=""><td>ne potential for en the geology. Re-using</td></eba<>	ne potential for en the geology. Re-using
Waste Flake - ?plat 2 flakes Flake	In the context unclear, though them to be contemporary. No relation form rejuvenation flake* Med sized, 1 thick lat with relict core edge.	given their qua nships guarant Period * <eba if="" intention<="" td=""><td>antity there is son eed however, give Preference *??<eba< td=""><td>ne potential for en the geology. Re-using</td></eba<></td></eba>	antity there is son eed however, give Preference *?? <eba< td=""><td>ne potential for en the geology. Re-using</td></eba<>	ne potential for en the geology. Re-using
Waste Flake - ?plat 2 flakes Flake	I ossible N>Ebb and Mbb>Ehrit+ etc latter to the context unclear, though them to be contemporary. No relation form rejuvenation flake* Med sized, 1 thick lat with relict core edge. Sm, chips.	given their qua nships guarant Period * <eba if="" intentiona<="" td=""><td>antity there is son eed however, give Preference *??<eba< td=""><td>ne potential for en the geology. Re-using</td></eba<></td></eba>	antity there is son eed however, give Preference *?? <eba< td=""><td>ne potential for en the geology. Re-using</td></eba<>	ne potential for en the geology. Re-using
Waste Flake - ?plat 2 flakes Flake Flake fragm	I ossible N>LDA and NDA>LMA+ ere latter to the context unclear, though them to be contemporary. No relation form rejuvenation flake* Med sized, 1 thick lat with relict core edge. Sm, chips. ent	given their qua nships guarant Period * <eba if="" intention<="" td=""><td>antity there is son eed however, give Preference *??<eba< td=""><td>ne potential for en the geology. Re-using</td></eba<></td></eba>	antity there is son eed however, give Preference *?? <eba< td=""><td>ne potential for en the geology. Re-using</td></eba<>	ne potential for en the geology. Re-using
<i>Waste</i> Flake - ?plat 2 flakes Flake Flake fragm	In the context unclear, though them to be contemporary. No relation form rejuvenation flake* Med sized, 1 thick lat with relict core edge. Sm, chips. ent Dist, brks.	given their qua nships guarant Period * <eba if="" intention<="" td=""><td>antity there is son eed however, give Preference *??<eba< td=""> al.</eba<></td><td>Re-using</td></eba>	antity there is son eed however, give Preference *?? <eba< td=""> al.</eba<>	Re-using
<i>Waste</i> Flake - ?plat 2 flakes Flake Flake fragm Flake fragm	In the context unclear, though them to be contemporary. No relation form rejuvenation flake* Med sized, 1 thick lat with relict core edge. Sm, chips. ent Dist, brks. ent	given their qua nships guarant Period * <eba if="" intention<="" td=""><td>Initial in so, real Initial there is son eed however, give Preference *??<eba< td=""> al.</eba<></td><td>Re-using</td></eba>	Initial in so, real Initial there is son eed however, give Preference *?? <eba< td=""> al.</eba<>	Re-using
Waste Flake - ?plat 2 flakes Flake Flake fragm Flake fragm	In the second se	given their qua nships guarant Period * <eba if="" intention<="" td=""><td>Initity there is son eed however, give Preference *??<eba< td=""></eba<></td><td>Re-using</td></eba>	Initity there is son eed however, give Preference *?? <eba< td=""></eba<>	Re-using
Waste Flake - ?plat 2 flakes Flake Flake fragm Flake fragm ?Core	I ossible N>Ebb and Mbb>Ehrik+ etc latter to the context unclear, though them to be contemporary. No relation form rejuvenation flake* Med sized, 1 thick lat with relict core edge. Sm, chips. ent Dist, brks. ent Thick SQ prim, dist brk, chips.	given their qua nships guarant Period * <eba if="" intentiona<="" td=""><td>Initity there is son eed however, give Preference *??<eba< td=""></eba<></td><td>Re-using</td></eba>	Initity there is son eed however, give Preference *?? <eba< td=""></eba<>	Re-using
Waste Flake - ?plat 2 flakes Flake Flake fragm Flake fragm ?Core	I ossible N>Ebb and MbbA>ElmA+ etc latter to the context unclear, though them to be contemporary. No relation form rejuvenation flake* Med sized, 1 thick lat with relict core edge. Sm, chips. ent Dist, brks. ent Thick SQ prim, dist brk, chips. Lrgish thick ang chunk, 1 brk and 1 BL sized	sinents, for mer given their qua nships guarant Period * <eba if="" intentions<="" td=""><td>idental?).</td><td>Re-using</td></eba>	idental?).	Re-using
Waste Flake - ?plat 2 flakes Flake Flake fragm Flake fragm ?Core Retouched	I ossible N>Ebb and MDA>Elina+ etc latter to the context unclear, though them to be contemporary. No relation form rejuvenation flake* Med sized, 1 thick lat with relict core edge. Sm, chips. ent Dist, brks. ent Thick SQ prim, dist brk, chips. Lrgish thick ang chunk, 1 brk and 1 BL sized	given their qua nships guarant Period * <eba if="" intentiona<br="">d removal scar (acc</eba>	al	Re-using
Waste Flake - ?plat 2 flakes Flake Flake fragm Flake fragm ?Core <i>Retouched</i> Misc. ret. fla	I ossible N>Ebb and NDA>Elina+ cell latter to the context unclear, though them to be contemporary. No relation form rejuvenation flake* Med sized, 1 thick lat with relict core edge. Sm, chips. ent Dist, brks. ent Thick SQ prim, dist brk, chips. Lrgish thick ang chunk, 1 brk and 1 BL sized ke	sincents, for mer given their qua inships guarant Period * <eba if="" intentiona<br="">*<eba if="" intentiona<br="">if removal scar (acc ?M>EBA</eba></eba>	eshular if so, rea intity there is son eed however, give Preference *?? <eba al</eba 	Re-using
Waste Flake - ?plat 2 flakes Flake Flake fragm Flake fragm ?Core <i>Retouched</i> Misc. ret. fla	I ossible N>EDA and BDA>ERIA+ etc latter to the context unclear, though them to be contemporary. No relation form rejuvenation flake* Med sized, 1 thick lat with relict core edge. Sm, chips. ent Dist, brks. ent Thick SQ prim, dist brk, chips. Lrgish thick ang chunk, 1 brk and 1 BL sized ke Med sized, decent fl, dist brk, 1 lat irreg with	sincents, for mer given their qua inships guarant Period * <eba if="" intentiona<br="">*<eba if="" intentiona<br="">a removal scar (acc ?M>EBA h cortx, other lat st</eba></eba>	estitutar if so, refa antity there is son eed however, give Preference *?? <eba< td=""> al </eba<>	Ationship of the ne potential for en the geology. Re-using
Waste Flake - ?plat 2 flakes Flake Flake fragm Flake fragm ?Core <i>Retouched</i> Misc. ret. fla Hollow scra	I ossible N>EDA and BDA>ERIA+ etc latter to the context unclear, though them to be contemporary. No relation form rejuvenation flake* Med sized, 1 thick lat with relict core edge. Sm, chips. ent Dist, brks. ent Thick SQ prim, dist brk, chips. Lrgish thick ang chunk, 1 brk and 1 BL sized ke Med sized, decent fl, dist brk, 1 lat irreg with per	given their qua mships guarant Period * <eba if="" intentiona<br="">times and the second sec</eba>	intity there is son eed however, give Preference *?? <eba al i i i i i i i i i</eba 	d many brks
Waste Flake - ?plat 2 flakes Flake Flake fragm Flake fragm ?Core Retouched Misc. ret. fla Hollow scra	I ossible N>Ebb and bbb>Ebb and bbb Iatter to the context unclear, though them to be contemporary. No relation form rejuvenation flake* Med sized, 1 thick lat with relict core edge. Sm, chips. ent Dist, brks. ent Thick SQ prim, dist brk, chips. Lrgish thick ang chunk, 1 brk and 1 BL sized ke Med sized, decent fl, dist brk, 1 lat irreg with per Lrg nat, slightly fl-like, 1 inv concave end Ni	given their qua mships guarant Period * <eba if="" intentiona<br="">*<eba if="" intentiona<br="">d removal scar (acc ?M>EBA h cortx, other lat sp EEDS WASH. 1 sm</eba></eba>	intity there is son eed however, give Preference *?? <eba al i idental?). ?N>EBA n area dir abr ret and MBA>EMIA+ dir hollow of chippy</eba 	d many brks
Waste Flake - ?plat 2 flakes Flake Flake fragm Flake fragm ?Core Retouched Misc. ret. fla Hollow scra ?Retouched	I ossible N>EDA and bDA>EMAY etc latter to the context unclear, though them to be contemporary. No relation form rejuvenation flake* Med sized, 1 thick lat with relict core edge. Sm, chips. ent Dist, brks. ent Thick SQ prim, dist brk, chips. Lrgish thick ang chunk, 1 brk and 1 BL sized ke Med sized, decent fl, dist brk, 1 lat irreg witt per Lrg nat, slightly fl-like, 1 inv concave end Ni	given their qua mships guarant Period * <eba if="" intentiona<br="">a removal scar (acc ?M>EBA h cortx, other lat su EEDS WASH. 1 sm</eba>	intity there is son eed however, give Preference *?? <eba al cidental?). ?N>EBA n area dir abr ret and MBA>EMIA+ dir hollow of chippy</eba 	d many brks
Waste Flake - ?plat 2 flakes Flake Flake fragm Flake fragm ?Core Retouched Misc. ret. fla Hollow scra ?Retouched ?Notch/end	I ossible N>EDA and NDA>EMIA+ clear is the context unclear, though them to be contemporary. No relation form rejuvenation flake* form rejuvenation flake* Med sized, 1 thick lat with relict core edge. Sm, chips. ent Dist, brks. ent Thick SQ prim, dist brk, chips. Lrgish thick ang chunk, 1 brk and 1 BL sized ke Med sized, decent fl, dist brk, 1 lat irreg with per Lrg nat, slightly fl-like, 1 inv concave end Nilscraper	sinches, for mer given their qua nships guarant Period * <eba if="" intentions<br="">*<eba if="" intentions<br="">a removal scar (acc ?M>EBA h cortx, other lat su EEDS WASH. 1 sm</eba></eba>	idental?).	d many brks
Waste Flake - ?plat 2 flakes Flake Flake fragm Flake fragm ?Core <i>Retouched</i> Misc. ret. fla Hollow scra ? <i>Retouched</i> ?Notch/end	I ossible N>EDA and WDA>EMIA+ clear latter to the context unclear, though them to be contemporary. No relation form rejuvenation flake* Med sized, 1 thick lat with relict core edge. Sm, chips. ent Dist, brks. ent Thick SQ prim, dist brk, chips. Lrgish thick ang chunk, 1 brk and 1 BL sized ke Med sized, decent fl, dist brk, 1 lat irreg with per Lrg nat, slightly fl-like, 1 inv concave end Ni scraper Thick fl, dist end shows inv shallow concave	sinches, for mer given their qua mships guarant Period * <eba if="" intentiona<br="">*<eba if="" intentiona<br="">a removal scar (acc ?M>EBA h cortx, other lat su EEDS WASH. 1 sm e semi-abr single n</eba></eba>	eshuar if so, rea intity there is son eed however, give Preference *?? <eba al cidental?). ?N>EBA n area dir abr ret and MBA>EMIA+ dir hollow of chippy MBA>EMIA+ otch scar and chips.</eba 	d many brks
Waste Flake - ?plat 2 flakes Flake Flake fragm Flake fragm ?Core <i>Retouched</i> Misc. ret. fla Hollow scra ? <i>Retouched</i> ?Notch/end ?Piercer	I ossible N>EDA and WDA>EDNA* clear, though them to be contemporary. No relation flake* form rejuvenation flake* Med sized, 1 thick lat with relict core edge. Sm, chips. ent Dist, brks. ent Thick SQ prim, dist brk, chips. Lrgish thick ang chunk, 1 brk and 1 BL sized ke Med sized, decent fl, dist brk, 1 lat irreg with per Lrg nat, slightly fl-like, 1 inv concave end Ni scraper Thick fl, dist end shows inv shallow concave	sinches, for mer given their qua mships guarant Period * <eba if="" intentiona<br="">*<eba if="" intentiona<br="">d removal scar (acc ?M>EBA h cortx, other lat su EEDS WASH. 1 sm e semi-abr single n</eba></eba>	eshuar ir so, reia intity there is son eed however, give Preference *?? <eba al cidental?). ?N>EBA n area dir abr ret and MBA>EMIA+ dir hollow of chippy MBA>EMIA+ otch scar and chips. ?MBA>EMIA+</eba 	d many brks
Waste Flake - ?plat 2 flakes Flake Flake fragm Flake fragm ?Core Retouched Misc. ret. fla Hollow scra ?Retouched ?Notch/end ?Piercer	I ossible N>EDA and WDA>EDHA+ clear, though them to be context unclear, though them to be contemporary. No relation form rejuvenation flake* form rejuvenation flake* Med sized, 1 thick lat with relict core edge. Sm, chips. ent Dist, brks. ent Thick SQ prim, dist brk, chips. Lrgish thick ang chunk, 1 brk and 1 BL sized ke Med sized, decent fl, dist brk, 1 lat irreg witt per Lrg nat, slightly fl-like, 1 inv concave end Ni scraper Thick fl, dist end shows inv shallow concave Sm thick shatter, 1 pointed end shows some	sinches, for heir qua inships guarant Period * <eba if="" intentiona<br="">*<eba if="" intentiona<br="">a removal scar (acc ?M>EBA h cortx, other lat su EEDS WASH. 1 sm a semi-abr single n a ?ret scarring lead</eba></eba>	estituar in so, reia intity there is son eed however, give Preference *?? <eba al al cidental?). ?N>EBA n area dir abr ret and MBA>EMIA+ dir hollow of chippy MBA>EMIA+ otch scar and chips. ?MBA>EMIA+ ing to point.</eba 	d many brks abr ret.
Waste Flake - ?plat 2 flakes Flake Flake fragm Flake fragm ?Core Retouched Misc. ret. fla Misc. ret. fla Hollow scra ?Retouched ?Notch/end ?Piercer Utilised	I ossible N>EDA and bbDA>EMAY etc latter to the context unclear, though them to be contemporary. No relation form rejuvenation flake* Med sized, 1 thick lat with relict core edge. Sm, chips. ent Dist, brks. ent Thick SQ prim, dist brk, chips. Lrgish thick ang chunk, 1 brk and 1 BL sized ke Med sized, decent fl, dist brk, 1 lat irreg witt per Lrg nat, slightly fl-like, 1 inv concave end NI scraper Thick fl, dist end shows inv shallow concave Sm thick shatter, 1 pointed end shows some	given their qua mships guarant Period * <eba if="" intentiona<br="">*<eba if="" intentiona<br="">d removal scar (acc ?M>EBA h cortx, other lat sp EEDS WASH. 1 sm e semi-abr single n e ?ret scarring lead</eba></eba>	estitutar if so, refa eed however, give Preference *?? <eba< td=""> al </eba<>	d many brks abr ret.
Waste Flake - ?plat 2 flakes Flake Flake fragm Flake fragm ?Core Retouched Misc. ret. fla Hollow scra ?Retouched ?Notch/end ?Piercer Utilised Flake - hollo	I ossible N>EDA and BDA>EMIA+ clear, though them to be contemporary. No relation flake them to be contemporary. No relation form rejuvenation flake multiple form rejuvenation flake for the flake for the flake form rejuvenation flake for the flake flake for the flake flake for the flake for the flake for the fl	given their qua mships guarant Period * <eba if="" intentiona<br="">*<eba if="" intentiona<br="">d removal scar (acc ?M>EBA h cortx, other lat su EEDS WASH. 1 sm e semi-abr single n</eba></eba>	estitutar if so, refa eed however, give Preference *?? <eba< td=""> al </eba<>	d many brks abr ret.
Waste Flake - ?plat 2 flakes Flake Flake fragm Flake fragm ?Core Retouched Misc. ret. fla Misc. ret. fla Hollow scra ?Retouched ?Notch/end ?Piercer Utilised Flake - hollo	I ossible N>EDA and bibA>Elinat clear, though them to be contemporary. No relation flake them to be contemporary. No relation form rejuvenation flake multiple form rejuvenation flake form rejuvenatity flake form rejuvenation flake form rejuvenation flake form rej	given their qua mships guarant Period * <eba if="" intentiona<br="">*<eba if="" intentiona<br="">d removal scar (acc ?M>EBA h cortx, other lat su EEDS WASH. 1 sm e semi-abr single n e ?ret scarring lead</eba></eba>	estitutar in so, relationaria son, relatinaria son, relationarite son, relationari son, relationari son, re	d many brks abr ret.
Waste Flake - ?plat 2 flakes Flake Flake fragm Flake fragm ?Core Retouched Misc. ret. fla Misc. ret. fla Hollow scra ?Retouched ?Notch/end ?Piercer Utilised Flake - hollo	I ossible N>EDA and bibA>EMIA+ cell latter to the context unclear, though them to be contemporary. No relation form rejuvenation flake* Med sized, 1 thick lat with relict core edge. Sm, chips. ent Dist, brks. ent Thick SQ prim, dist brk, chips. Lrgish thick ang chunk, 1 brk and 1 BL sized ke Med sized, decent fl, dist brk, 1 lat irreg witt per Lrg nat, slightly fl-like, 1 inv concave end Ni scraper Thick fl, dist end shows inv shallow concave Sm thick shatter, 1 pointed end shows some ow scraper (<i>RU</i>) Sm, concave area 1 lat shows unpat abras.	given their qua mships guarant Period * <eba if="" intentiona<br="">*<eba if="" intentiona<br="">d removal scar (acc ?M>EBA h cortx, other lat sp EEDS WASH. 1 sm e semi-abr single n</eba></eba>	intity there is son eed however, give Preference *?? <eba al idental?). ?N>EBA n area dir abr ret and MBA>EMIA+ dir hollow of chippy MBA>EMIA+ otch scar and chips. ?MBA>EMIA+ ing to point. MBA>EMIA+</eba 	d many brks abr ret.

Flake – кш	e			
?Utilised				
Flake – ?kni	ife			
			•	
(6405) [64	04]		2 lithics	28 g
Context:				
Pottery:				
Notes:				
Summary:	Little specific data and relationship	to context unclea	ar.	
Waste		Period	Preference	Re-using
Flake				
	Sm, thin, chips and brks.		1	
Utilised				
Flake – natu	arally backed knife			
(6407) [64	0?6]		9 lithics	51 g
Context:				
Pottery:				
Notes:	1 medium sized flake, rest small size	d flakes and seve	ral fragments, plu	us some natural.
	The medium sized flake is a thick ter	tiary piece with a	well defined blu	nt piercer point,
	? <eba ??n="">EBA. Also notable are the</eba>	e proximal fragme	nts from 2 small	flakes, 1 at least
	potentially from a narrow blade, th	ese truncated by	(intentional?) si	nap breaks that
	remove this platform end of the flat	kes, the possible	blade. Both of th	lese show small
	snapping/chipping scars that lead to	the single flake-b	reaking snap. Wh	ile not certainly
	examples of retouched M microburing	s, they have poter	ntially been create	ed by employing
	the basis of the technique; potentially	broadly M>EN.		
Courses and a start				
summary:	Possible M>EN, <eba and="" mba="">EMI</eba>	A+ elements, the	e relationship of	the latter to the
Summary:	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology.</eba>	A+ elements, the	e relationship of	the latter to the
Waste	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology.</eba>	A+ elements, the Period	e relationship of t	the latter to the Re-using
<i>Waste</i> Flake fragm	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology.</eba>	A+ elements, the Period	e relationship of t	the latter to the
<i>Waste</i> Flake fragm	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. eent Sm, dist.</eba>	A+ elements, the Period	e relationship of t	the latter to the Re-using
<i>Waste</i> Flake fragm 2 flake frag	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. ent Sm, dist. ments</eba>	A+ elements, the Period	e relationship of t	the latter to the Re-using
<i>Waste</i> Flake fragm 2 flake frag	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. ent Sm, dist. ments Sm, medial.</eba>	A+ elements, the	e relationship of t	the latter to the Re-using
Summury: Waste Flake fragm 2 flake frag Retouched	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. eent Sm, dist. ments Sm, medial.</eba>	A+ elements, the	e relationship of t	the latter to the Re-using
<i>Summary:</i> <i>Waste</i> Flake fragm 2 flake fragn <i>Retouched</i> Piercer	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. eent Sm, dist. ments Sm, medial.</eba>	A+ elements, the Period ? <eba< td=""><td>Preference ??N>EBA</td><td>the latter to the</td></eba<>	Preference ??N>EBA	the latter to the
Summary: Waste Flake fragm 2 flake frag Retouched Piercer	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. eent Sm, dist. ments Sm, medial.</eba>	A+ elements, the Period ? <eba d chips. 2 dir ret e</eba 	Preference ??N>EBA dges on part of pla	the latter to the Re-using
Summary: Waste Flake fragm 2 flake fragm Retouched Piercer	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. eent Sm, dist. ments Sm, medial. Med sized tert, thick, triang sec, scars an converge to isolate a robust flat tipped point</eba>	A+ elements, the Period ? <eba d chips. 2 dir ret e nt. Uneven concave</eba 	Preference Preference ??N>EBA dges on part of pla dist end some dir se	the latter to the <u>Re-using</u> t and 1 upper lat mi-abr ret.
Summary: Waste Flake fragm 2 flake fragg Retouched Piercer ?Denticulate	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. ent Sm, dist. ments Sm, medial. Med sized tert, thick, triang sec, scars an converge to isolate a robust flat tipped pointe e</eba>	A+ elements, the Period ? <eba 2="" chips.="" concave<="" d="" dir="" e="" nt.="" ret="" td="" uneven=""><td>Preference Preference ??N>EBA dges on part of pla dist end some dir se</td><td>the latter to the Re-using the latter to the Re-using</td></eba>	Preference Preference ??N>EBA dges on part of pla dist end some dir se	the latter to the Re-using the latter to the Re-using
Summary: Waste Flake fragm 2 flake fragn Retouched Piercer ?Denticulate	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. ient Sm, dist. ments Sm, medial. Med sized tert, thick, triang sec, scars an converge to isolate a robust flat tipped pointe Sm thin L fl, 1 lat shopws dir abr ret forming</eba>	A+ elements, the Period ? <eba d chips. 2 dir ret e nt. Uneven concave</eba 	e relationship of t Preference ??N>EBA dges on part of pla dist end some dir se ppos steeper other	the latter to the <u>Re-using</u> t and 1 upper lat mi-abr ret. lat.
Summary: Waste Flake fragm 2 flake frag 2 flake frag Retouched Piercer ?Denticulate ?Retouched	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. ient Sm, dist. ments Sm, medial. Med sized tert, thick, triang sec, scars an converge to isolate a robust flat tipped pointe Sm thin L fl, 1 lat shopws dir abr ret forming</eba>	A+ elements, the Period ? <eba 2="" chips.="" concave<="" d="" dir="" e="" nt.="" ret="" td="" uneven=""><td>e relationship of t Preference ??N>EBA dges on part of pla dist end some dir se ppos steeper other</td><td>the latter to the Re-using It and 1 upper lat mi-abr ret. lat.</td></eba>	e relationship of t Preference ??N>EBA dges on part of pla dist end some dir se ppos steeper other	the latter to the Re-using It and 1 upper lat mi-abr ret. lat.
Summary: Waste Flake fragm 2 flake fragn Retouched Piercer ?Denticulato ?Retouched ?Notch on n	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. eent Sm, dist. ments Sm, medial. Med sized tert, thick, triang sec, scars an converge to isolate a robust flat tipped pointe Sm thin L fl, 1 lat shopws dir abr ret formir actural Sm fl like net 1 cm netsh with abraded add</eba>	A+ elements, the Period ? <eba d chips. 2 dir ret e nt. Uneven concave ag dentic-like edge o</eba 	e relationship of the second s	the latter to the <u>Re-using</u> t and 1 upper lat mi-abr ret. lat.
Summary: Waste Flake fragm 2 flake fragn Retouched Piercer ?Denticulate ?Retouched ?Notch on n	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. eent Sm, dist. ments Sm, medial. Med sized tert, thick, triang sec, scars an converge to isolate a robust flat tipped pointe Sm thin L fl, 1 lat shopws dir abr ret forminatural Sm fl-like nat, 1 sm notch with abraded edge</eba>	A+ elements, the Period Period ? <eba d chips. 2 dir ret e nt. Uneven concave ng dentic-like edge o ge. *If so.</eba 	e relationship of the second s	the latter to the <u>Re-using</u> t and 1 upper lat mi-abr ret. lat.
Summary: Waste Flake fragm 2 flake fragm Retouched Piercer ?Denticulate ?Retouched ?Notch on n Retouched/f Side 2 halle	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. eent Sm, dist. ments Sm, medial. Med sized tert, thick, triang sec, scars an converge to isolate a robust flat tipped pointe Sm thin L fl, 1 lat shopws dir abr ret forminatural Sm fl-like nat, 1 sm notch with abraded edg utilised</eba>	A+ elements, the Period ? <eba d chips. 2 dir ret e nt. Uneven concave ng dentic-like edge o ge. *If so.</eba 	e relationship of the second s	the latter to the <u>Re-using</u> tt and 1 upper lat mi-abr ret. lat.
Summary: Waste Flake fragm 2 flake fragm Retouched Piercer ?Denticulate ?Retouched ?Notch on n Retouched/it Side ?+holic	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. ent Sm, dist. ments Sm, medial. Med sized tert, thick, triang sec, scars an converge to isolate a robust flat tipped pointe Sm thin L fl, 1 lat shopws dir abr ret forminatural Sm fl-like nat, 1 sm notch with abraded edg utilised Dw scraper ?on natural Sm & Like 2met / kelm fl, thick friang sec.</eba>	A+ elements, the Period Period ? <eba d chips. 2 dir ret e nt. Uneven concave ng dentic-like edge o ge. *If so.</eba 	e relationship of the second shares and shares 1 and shar	the latter to the <u>Re-using</u> tt and 1 upper lat mi-abr ret. lat.
Summary: Waste Flake fragm 2 flake fragm 2 flake fragm Retouched Piercer ?Denticulate ?Retouched ?Notch on n Retouched/I Side ?+hollo	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. ent Sm, dist. ments Sm, medial. Med sized tert, thick, triang sec, scars an converge to isolate a robust flat tipped pointe Sm thin L fl, 1 lat shopws dir abr ret forminatural Sm fl-like nat, 1 sm notch with abraded edge w scraper ?on natural Sm fl-like ?nat/brkn fl, thick triang sec, 1 mean</eba>	A+ elements, the Period Period ? <eba d chips. 2 dir ret e nt. Uneven concave ge dentic-like edge o ge. *If so. uncortxd lat showin</eba 	e relationship of the second s	the latter to the <u>Re-using</u> t and 1 upper lat mi-abr ret. lat. concave (horned)
Summary: Waste Flake fragm 2 flake fragm 2 flake fragm Retouched Piercer ?Denticulate ?Retouched/ ?Notch on n Retouched/n Side ?+hollo	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. ient Sm, dist. ments Sm, medial. Med sized tert, thick, triang sec, scars an converge to isolate a robust flat tipped pointer Sm thin L fl, 1 lat shopws dir abr ret forming matural Sm fl-like nat, 1 sm notch with abraded edge w scraper ?on natural Sm fl-like ?nat/brkn fl, thick triang sec, 1 ments</eba>	A+ elements, the Period ? <eba d chips. 2 dir ret e nt. Uneven concave ge. *If so. uncortxd lat showin</eba 	e relationship of the second s	the latter to the <u>Re-using</u> Re-using 1
Summary: Waste Flake fragm 2 flake fragm 2 flake fragm Retouched Piercer ?Denticulate ?Retouched/ Side ?+hollo ?Utilised/wo Flake fragm	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. ient Sm, dist. ments Sm, medial. Med sized tert, thick, triang sec, scars an converge to isolate a robust flat tipped pointe Sm thin L fl, 1 lat shopws dir abr ret forminatural Sm fl-like nat, 1 sm notch with abraded edget willised ow scraper ?on natural Sm fl-like ?nat/brkn fl, thick triang sec, 1 ment aste</eba>	A+ elements, the Period Period ? <eba d chips. 2 dir ret e nt. Uneven concave ge. *If so. uncortxd lat showin</eba 	e relationship of the second s	the latter to the <u>Re-using</u> Re-using t and 1 upper lat mi-abr ret. lat. concave (horned)
Summary: Waste Flake fragm 2 flake fragm 2 flake fragm Retouched Piercer ?Denticulate ?Notch on n Retouched/i Side ?+hollo ?Utilised/wo Flake fragm	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. eent Sm, dist. ments Sm, medial. Med sized tert, thick, triang sec, scars an converge to isolate a robust flat tipped pointe Sm thin L fl, 1 lat shopws dir abr ret forminatural Sm fl-like nat, 1 sm notch with abraded edg utilised ow scraper ?on natural Sm fl-like ?nat/brkn fl, thick triang sec, 1 ments vsm thin nrx frag looks decent noss from the sec from the se</eba>	A+ elements, the Period Period ? <eba d chips. 2 dir ret e nt. Uneven concave ng dentic-like edge o ge. *If so. uncortxd lat showin</eba 	e relationship of the second s	the latter to the <u>Re-using</u> t and 1 upper lat mi-abr ret. lat. concave (horned) concave of the
Summary: Waste Flake fragm 2 flake fragm 2 flake fragm Retouched Piercer ?Denticulate ?Retouched/M Side ?+hollor ?Utilised/wo Flake fragm	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. eent Sm, dist. ments Sm, medial. Med sized tert, thick, triang sec, scars an converge to isolate a robust flat tipped pointe Sm thin L fl, 1 lat shopws dir abr ret forminatural Sm fl-like nat, 1 sm notch with abraded edg utilised ow scraper ?on natural Sm fl-like ?nat/brkn fl, thick triang sec, 1 ments V sm thin prx frag, looks decent, poss from medial snap brk.</eba>	A+ elements, the Period Period ? <eba *if="" 2="" a="" b,="" chips.="" concave="" d="" dir="" e="" ge.="" lat="" m="" narrow="" nt.="" ret="" s<="" showin="" sm="" so.="" td="" uncortxd="" uneven=""><td>e relationship of the second s</td><td>the latter to the Re-using Re-using table and 1 upper lat mi-abr ret. lat. concave (horned) concave (horned)</td></eba>	e relationship of the second s	the latter to the Re-using Re-using table and 1 upper lat mi-abr ret. lat. concave (horned) concave (horned)
Summary: Waste Flake fragm 2 flake fragm 2 flake fragm Retouched Piercer ?Denticulate ?Retouched/m Side ?+hollor ?Utilised/wo Flake fragm Flake fragm	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. ient Sm, dist. ments Sm, medial. Med sized tert, thick, triang sec, scars an converge to isolate a robust flat tipped pointe Sm thin L fl, 1 lat shopws dir abr ret forminatural Sm fl-like nat, 1 sm notch with abraded edg utilised ow scraper ?on natural Sm fl-like ?nat/brkn fl, thick triang sec, 1 ment V sm thin prx frag, looks decent, poss from medial snap brk.</eba>	A+ elements, the Period Period ? <eba *if="" 2="" a="" b,="" chips.="" concave="" d="" dir="" e="" ge.="" lat="" m="" narrow="" nt.="" ret="" s<="" showin="" sm="" so.="" td="" uncortxd="" uneven=""><td>e relationship of the second s</td><td>the latter to the <u>Re-using</u> Re-using the latter to the Re-using Re-u</td></eba>	e relationship of the second s	the latter to the <u>Re-using</u> Re-using the latter to the Re-using Re-u
Summary: Waste Flake fragm 2 flake fragm 2 flake fragm Retouched Piercer ?Denticulate ?Retouched/M Side ?+hollo Side ?+hollo Flake fragm Flake fragm	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. ient Sm, dist. ments Sm, medial. Med sized tert, thick, triang sec, scars an converge to isolate a robust flat tipped pointe Sm thin L fl, 1 lat shopws dir abr ret forminatural Sm fl-like nat, 1 sm notch with abraded edget w scraper ?on natural Sm fl-like ?nat/brkn fl, thick triang sec, 1 ment V sm thin prx frag, looks decent, poss from medial snap brk. sm. thin prx frag, 1 lower lat shows in-cut</eba>	Period Period ? <eba *if="" 2="" chips.="" concave="" dir="" e="" ge.="" nt.="" ret="" so<="" td="" uneven=""><td>e relationship of the second s</td><td>the latter to the <u>Re-using</u> Re-using t and 1 upper lat mi-abr ret. lat. concave (horned) rk at corner of the at shows an oblig</td></eba>	e relationship of the second s	the latter to the <u>Re-using</u> Re-using t and 1 upper lat mi-abr ret. lat. concave (horned) rk at corner of the at shows an oblig
Summary: Waste Flake fragm 2 flake fragm 2 flake fragm ?2 flake fragm ?Denticulate ?Ponticulate ?Retouched ?Notch on n Retouched/M Side ?+hollo ?Utilised/wo Flake fragm Flake fragm	Possible M>EN, <eba and="" mba="">EMI context unclear, given the geology. ient Sm, dist. ments Sm, medial. Med sized tert, thick, triang sec, scars an converge to isolate a robust flat tipped pointe Sm thin L fl, 1 lat shopws dir abr ret forminatural Sm fl-like nat, 1 sm notch with abraded edge utilised ow scraper ?on natural Sm fl-like ?nat/brkn fl, thick triang sec, 1 ment V sm thin prx frag, looks decent, poss from medial snap brk. ment Sm, thin prx frag, 1 lower lat shows in-cu single snap brk, both meeting. ?Purposeful</eba>	A+ elements, the Period Period ? <eba d chips. 2 dir ret e nt. Uneven concave ge. *If so. uncortxd lat showin m a narrow B, sm s tting obliq sm snap truncation of flake a</eba 	e relationship of the second s	the latter to the <u>Re-using</u> Re-using Re-us

(6409) [64	08]		3 lithics	46 g
Context:				
Pottery:				
Notes:				
Summary:	Little specific data. 1 possibly MBA>	EMIA+, relation	ships unclear due t	to geology.
Waste		Period	Preference	Re-using
Flake				
	Thick, steep lats and dist, chips.			
Retouched/u	utilised			
End scraper	· (<i>RU</i>)		MBA>EMIA+	
	Sm, some post pat chips, narrow dist end WASH.	l shows some dir	scarring poss trunca	ting pat. NEEDS
Utilised				
Naturally ba	acked knife			
(6705) [67	04]		1 lithic	10 g
Context:				
Pottery:				
Notes:				
Summary:				
Waste		Period	Preference	Re-using
Flake	-			
	Sm, prim, chips,			
	0.41		F 1111 1	05.
(7105)[71	04]		5 litnics	25 g
Context:				
Notes:	4 small flakes with minimal or no cornatural, likely MBA>EIA.	tex, 2 reasonabl	le looking. 1 small t	hick retouched
Summary:	1 more likely MBA>EIA, at least 2 oth	ers could be ea	arlier, but relations	hips unclear.
Waste	· · · · · ·	Period	Preference	Re-using
Flake				
	Sm, ?decent, chips.		•	
Flake				
	Sm, chips.			
Retouched				
Scraper on 1	natural		MBA>EIA	
	Sm thick, thick 'lats', 1 'lat' 'dir' ret along len	gth forming unev	en edge.	
Misc. ret. fla				
Ittiliand	Sm, minimai ret.			
Elako knjf				
Flake - Killi	Sm 2 dors ridges 2decent			
	Sin, 2 dors ridges, ruecent.			
(7107) [71	061		2 lithics	16 σ
Context.			2 mmc3	105
Pottery:				
Notes:	Thinnish long flakes. 1 with a post-patie	na chin.		
Summary:	Little specific data. relationship to co	ontext unclear.		
?Utilised		Period	Preference	Re-using
Flake – natu	urally backed knife			
	Thin, chips and brks, post pat chip.		<u> </u>	
Flake – knif	e			

(7205) [72	04]		2 lithics	17 g
Context:				
Pottery:				
Notes:				
Summary:				
Waste		Period	Preference	Re-using
Flake		?M>EBA		
	Sm S ?PP.			
Retouched				
Misc. ret. fla	lke			
(8602) Tr 8	36		3 lithics	60 g
Context:				
Pottery:				
Notes:				
Summary:	1 likely MBA>EIA, one or both o	f the others constinues to each of	ould, but need the cont	not, relate. No rext unclear
Waste	ussociations guaranteeu ana relation	Period	Preference	Re-usina
Flake		1 critica	Trojerence	ne using
110110	Sm, SQ, chips and brks.			
Retouched				
Scraper on	natural	MBA>EMIA+	MBA>EIA	
1	Med sized thick ang nat, short length dir ab	r ret on thick edge.		
?Utilised				
Flake				
	Sm, chips.			
(9105) [91	04]		4 lithics	9 g
Context:				
Pottery:				
Notes:	Small flakes and fragments.			
Summary:	Little specific data, most, perhaps all	l, potentially res	idual.	
Waste		Period	Preference	Re-using
2 flakes				
	Sm, chips.			
Flake fragm	ent.			
Retouched				
Misc. ret. fla	ike fragment			
(040() [04	0.41			
(9106) [91	04]		15* lithics	566* g
Context:				
Pottery:	Small flakes and fragments and larg	an abottoned abo	ulta Oulta 1 ama	ll flalra anneana
Notes:	potentially decent. Rest generally a poo	er snattered chu or looking collecti	nks. Only 1 sma on.	II flake appears
			(11	
	*Also + 1 small belemnite fossil (/ g)	with a small flake	scar (possibly na	tural) and chips
C	at the tip, possibly utilised as a piercer,	but suspect and i		v at this time.
Summary:	DAS (MDAS EMIA) 1 broken regidu	al piece might	the majority of	could well be
	aculd well be a mostly related grou	ai piece inight,	but need not, u	ate <i>LEDA</i> . This
	are guaranteed. Consider the nat	uro of the con	toxt and thoir	distribution if
	nossible	are of the coll	text and then	aisti ibutioli, fi
Waste	possible	Period	Proforonco	Re-usina
?Single nlat	form flake core	101100	2MBA>EMIA+	ne using
ionigie pide	Lrg nodule with river-gravel type patina. co	uple medium sized	S and SO poss fl ren	novals
Flake				
	Sm, thinnish, appears decent, edges much b	orkn and chipped, re	esidual.	

F 1-1	Sm, chips.			
гаке				
	Sm, dist brk.			
Shatter				
	Ang, chips.			
?Core shatte	er			
	Lrg ang chunk, several facets nat, others ?st	ruck.		
?Core shatte	er			
	Thick nat looking nodule with poss flake re	moval scar.		
?Shatter				
	Sm, nat dors and vent surfaces, 1 broken er	nd some poss fl scar	remnants.	
?Flake				
	Long triang sec.	-		
?Flake/natu	ral			
	Sm, chipped	-		
Retouched				
Hollow scra	per ?on natural	?MBA>EMIA+	?MBA>EIA	
	?Fl like nat or poss a fl, steepest lat shows a	dir abr ret hollow.		
Scraper			MBA>EMIA+	
	Med sized thick ang nat, 1 thinnish edge sm	area ret.		
Misc. ret. na	turally backed flake			
	L Prim, Sm area likely ret 1 lower lat, rest n	nuch brkn.		
Utilised				
Shatter – sc	raper			
	Sm thick ang, 1 steep lat with scarring.	-		
?Retouched	/utilised			
?Shatter – s	craper		**MBA>EMIA+	
	Sm ang piece, mostly nat, 1 ?fl scar, 1 of the	se edges shows ?re	t + abras. **If so.	
(9107) [91	04]		1 lithic	5 g
Context:				
Pottery:				
Notes:				
-				
Summary:	Little specific data, relationship to c	ontext unclear, b	out potentially re	sidual.
Summary: Utilised	Little specific data, relationship to c	ontext unclear, b Period	out potentially re Preference	sidual. Re-using
Summary: Utilised Flake – knif	Little specific data, relationship to co	ontext unclear, b Period	out potentially re Preference	<mark>sidual.</mark> Re-using
Summary: Utilised Flake – knif	Little specific data, relationship to c	ontext unclear, b Period	out potentially re Preference	sidual. Re-using
Summary: Utilised Flake – knif (9108) T91	Little specific data, relationship to c	ontext unclear, b Period	out potentially re Preference 5 lithics	sidual. Re-using 55 g
Summary: Utilised Flake – kniff (9108) T91 Context:	Little specific data, relationship to co	ontext unclear, b Period	Dut potentially re Preference 5 lithics	sidual. Re-using 55 g
Summary: Utilised Flake – knift (9108) T91 Context: Pottery:	Little specific data, relationship to co	ontext unclear, b Period	out potentially re Preference 5 lithics	sidual. Re-using 55 g
Summary: Utilised Flake – knif (9108) T91 Context: Pottery: Notes:	Little specific data, relationship to co	ontext unclear, b	put potentially re Preference 5 lithics	sidual. Re-using 55 g
Summary: Utilised Flake – knif (9108) T91 Context: Pottery: Notes:	Little specific data, relationship to control of the specific data and the specific data	ontext unclear, b Period but simply so, for	put potentially re Preference 5 lithics	sidual. Re-using 55 g ne long lateral of
Summary: Utilised Flake – knif (9108) T91 Context: Pottery: Notes:	Little specific data, relationship to co e 1 piercer and 1 knife, much retouched a long flake. Both perhaps more likely l	ontext unclear, b Period but simply so, for MBA>EIA, but cou	rmer notably on the	sidual. Re-using 55 g ne long lateral of ew
Summary: Utilised Flake – kniff (9108) T91 Context: Pottery: Notes: Summary: Waste	Little specific data, relationship to co e 1 piercer and 1 knife, much retouched a long flake. Both perhaps more likely l Little specific data and relationships	but simply so, for MBA>EIA, but cou s unclear. Perhag	The second secon	sidual. Re-using 55 g ne long lateral of ew Re-using
Summary: Utilised Flake – kniff (9108) T91 Context: Pottery: Notes: Summary: Waste 2 flakes	Little specific data, relationship to co e 1 piercer and 1 knife, much retouched a long flake. Both perhaps more likely l Little specific data and relationships	ontext unclear, b Period but simply so, for MBA>EIA, but cou s unclear. Perhag Period	The second state of the se	sidual. <i>Re-using</i> 55 g ne long lateral of ew <i>Re-using</i>
Summary: Utilised Flake – kniff (9108) T91 Context: Pottery: Notes: Summary: Waste 2 flakes Flakes	Little specific data, relationship to co e 1 piercer and 1 knife, much retouched a long flake. Both perhaps more likely 1 Little specific data and relationships	ontext unclear, b Period but simply so, for MBA>EIA, but cou s unclear. Perhaj Period	The second state of the se	sidual. Re-using 55 g he long lateral of ew Re-using
Summary: Utilised Flake – kniff (9108) T91 Context: Pottery: Notes: Summary: Waste 2 flakes Flake	Little specific data, relationship to co e 1 piercer and 1 knife, much retouched a long flake. Both perhaps more likely 1 Little specific data and relationships	ontext unclear, b Period but simply so, for MBA>EIA, but cou s unclear. Perhag Period	rmer notably on the the terms of terms of the terms of t	sidual. Re-using 55 g ne long lateral of ew Re-using
Summary: Utilised Flake – kniff (9108) T91 Context: Pottery: Notes: Summary: Waste 2 flakes Flake Patouched	Little specific data, relationship to conservation of the specific data of the specific data and relationships of the specific data and	ontext unclear, b Period but simply so, for MBA>EIA, but cou s unclear. Perhaj Period	rmer notably on the transformer notably on the t	sidual. Re-using 55 g ne long lateral of ew Re-using
Summary: Utilised Flake – kniff (9108) T91 Context: Pottery: Notes: Summary: Waste 2 flakes Flake Retouched 2 Piercor	Little specific data, relationship to conservations of the specific data and relationships of th	ontext unclear, b Period but simply so, for MBA>EIA, but cou sunclear. Perhag Period	rmer notably on th ld be earlier. Revi ps review. Preference	sidual. Re-using 55 g he long lateral of ew Re-using
Summary: Utilised Flake – kniff (9108) T91 Context: Pottery: Notes: Summary: Waste 2 flakes Flake Retouched ?Piercer	Little specific data, relationship to conserve the specific data, relationship to conserve the specific data and relationships	ontext unclear, b Period but simply so, for MBA>EIA, but cou sunclear. Perhag Period <eia< td=""><td>Solution Second state Preference 5 Solution 5 Inthics 5 Preference 5 Preference 1 Preference 1</td><td>sidual. Re-using 55 g he long lateral of ew Re-using either side of and</td></eia<>	Solution Second state Preference 5 Solution 5 Inthics 5 Preference 5 Preference 1	sidual. Re-using 55 g he long lateral of ew Re-using either side of and
Summary: Utilised Flake – kniff (9108) T91 Context: Pottery: Notes: Summary: Waste 2 flakes Flake Retouched ?Piercer	Little specific data, relationship to conserve the specific data, relationship to conserve the specific data and relationships	ontext unclear, b Period but simply so, for MBA>EIA, but cou s unclear. Perhag Period <eia ?prx end, 1 lat show ort point.</eia 	rmer notably on the second sec	sidual. Re-using 55 g he long lateral of ew Re-using either side of and
Summary: Utilised Flake – kniff (9108) T91 Context: Pottery: Notes: Summary: Waste 2 flakes Flake Retouched ?Piercer	Little specific data, relationship to conserve the specific data, relationship to conserve the specific data and relationships	ontext unclear, b Period but simply so, for MBA>EIA, but cous sunclear. Perhag Period <eia ?prx end, 1 lat show ort point. <eia< td=""><td>Dut potentially re Preference 5 lithics rmer notably on the second secon</td><td>sidual. Re-using 55 g he long lateral of ew Re-using either side of and</td></eia<></eia 	Dut potentially re Preference 5 lithics rmer notably on the second secon	sidual. Re-using 55 g he long lateral of ew Re-using either side of and
Summary: Utilised Flake – kniff (9108) T91 Context: Pottery: Notes: Summary: Waste 2 flakes Flake Retouched ?Piercer Knife	Little specific data, relationship to conserve the specific data, relationship to conserve the specific data and relationships for the specific data and relationships	ontext unclear, b Period but simply so, for MBA>EIA, but cous sunclear. Perhag Period <eia ?prx end, 1 lat show ort point. <eia oy ret along length.</eia </eia 	Dut potentially re Preference 5 lithics rmer notably on the transmission of transmiso	sidual. Re-using 55 g he long lateral of ew Re-using either side of and

(9205) [92	04]		7 lithics	28 g
Context:				
Pottery:				
Notes:	Small flakes, most broken. Notably 1 broken likely bladelet, M>EN.			
Summary:	Little specific data. 1 M>EN, this and at least 2 others potentially residual, 1 other			
	possibly MBA>EIA+ with relationshi	p to context unc	lear, but perhaps	s also residual.
Waste		Period	Preference	Re-using
Flake fragm	ent			
	Sm frag, prx dist and lat brks and chips.	1	1	
Retouched				
?Side scrape	er		?MBA>EIA+	
	Sm, 1 steep lat dir abr ret, 1 shallow anlg la	t dir abr ret, dist en	nd uneven concave o	f inv ret/chipping.
Misc. ret. + ı	util flake			
20.1	Sm prx frag, ?decent, chips, brks, ret and at	oras, not cert microl	burin.	
?Point	Condict and shows shout door in out of di	 	half athen dat some	u u u cicatiu a inte a
	sm, dist end snows snort deep in-cut of di	r abr ret 1 along 1	nan, other ust corne	r projecting into a
Iltilisød	broau point.			
Flake – knife	<u>e</u>	M>RK	M>FN	
T lake Killi	Sm quality prx frag of likely B, dist snap brl	s. PP. some fine ab	ras and chips.	
?Retouched	Tom quality printing of mory 2) also onap bi			
Flake				
	Sm, 1 lat brkn with post-pat chip, other sho	ulder couple shallo	w dir scars.	
Flake fragm	ent	·		
	Thick, couple inv ?ret scars by dist brk.		1	
(9305) [93	04]		11 lithics	350 g
Context:				
Pottery:				
Notes:	1 small fairly decent looking broken f	ake, likely residu	al. Rest average/p	ooor. WASH if in
	need of review.			
Summary:	Little specific data. 1 perhaps less	ilikely post ME	BA-LBA, 1 other,	perhaps most,
	could be MBA>EMIA+. 1 might but	need not pre-d	late this. Relation	nships unclear,
	due to geology.			D (
Waste		Period	Preference	Re-using
Multiplatfor	m flake core		// <mba-lba< td=""><td>Garage la sella sel·la se</td></mba-lba<>	Garage la sella sel·la se
	Lrg thick nat, triang plan, 1 broad conv	edge shows the shows	removal of sm S fig	s from both sides
	only.	cu. 1 auj lat silows		
Flake	[
	Sm, thin, curving, looks decent, prx brk, chi	ps, post Y pat chips	•	
2 flakes				
Flake				
	Sm, chips.	-		
Flake				
	Sm, dist brks.	1	1	
?Flake/shat	ter			
Retouched				
Side scrape	r on natural		MBA>EMIA+	
	Med sized fl-like nat, 1 lower 'lat' sm area d	ir abr ret.	1	
Knife			-	
17.10	1 upper thin lat some inv ret, rest of lower	lat inv chips, other	lat steep.	
Knife				
Iltilia - J	Sm II, sm area ret on thin lat.			
Utilised	-			
riake – knife	e		1	

Context: Pattery: Pattery: Small to medium sized flakes and thick angular chunks, generally a poor looking group overall, with nothing of quality Summary: Majority, if no tall, probably BA>, some more likely MBA>EMIA+, with a couple of more significantly retouched examples <eia. a="" and="" be="" broadly="" consider="" consistency,="" context="" could="" due="" geology.="" given="" group="" horizons="" if="" is="" mba="" nature="" of="" possible.="" potential="" quantity="" recovery,="" related="" relationships="" that="" the="" their="" there="" this="" to="" unclear,="">EIA date and thus also with some potential to be context-contemporary. No relationships guaranteed, however. Waste Period Preference Re-using Single platform flake core MBA>EIA date and thus also with some potential to be context-contemporary. No relationships guaranteed, however. Re-using Waste Sm sha nagular piece. Image: Sm sha nagular piece. Image: Sm sha nagular piece. Shatter Sm thick ang piece. Image: Sm shate, some 71 removal scars amongst many nat facets. Image: Sm shate, chips. Flake fragment Sm sha piece. Image: Sm shate, chips. Image: Sm shate, chips. Flake fragment Sm shate, brie. Image: Sm shate, brie. Image: Sm shate, brie. Side scraper + knife TBA> TMBA>EIA Image: Sm shate, brie. Side scraper + knife TBA> <</eia.>	(9307) [93	06]		16 lithics	368 g	
Pottery: Majority, if not all, probably BA>, some more likely MBA>EMIA+, with a couple of more significantly retouched examples <eia. a="" and="" be="" broadly="" consider="" consistency,="" context="" could="" due="" geology.="" given="" group="" horizons="" if="" is="" mba="" nature="" of="" possible.="" potential="" quantity="" recovery,="" related="" relationships="" that="" the="" their="" there="" this="" to="" unclear,="">EIA date and thus also with some potential to be context-contemporary. No relationships guaranteed, however. Waste Period Preference R-using Waste Period Preference R-using Single platform flake core MBA>EMIA+ MBA>EMIA+ Multiplatform flake core Image: Single platform flake core Image: Single platform flake core Sin-shangular piece. - - - ?Core fragment/shatter Image: Single platform flake core Image: Single platform flake core - Sin, thick, some 7f1 removal scars amongst many nat facets. - - - Single in thick, chips. - - - - Flake fragment Image: Single in thick, chips. - - - Side scraper + knife 7BA> MBA>EIA - - Waste Side scraper / knife, broad corted dist end shows air abr ret forming slightl</eia.>	Context:					
Notes: Small to medium sized flakes and thick angular chunks, generally a poor looking group overall, with nothing of quality Summary: Majority, if not all, probably BA>, some more likely MBA>EMIA+, with a couple of more significantly retouched examples cElA. Relationships unclear, due to the geology. Consider the nature of the context and their horizons of recovery, if possible. Given quantity and consistency, there is the potential that this could be a broadly related group of MBA>EIA date and thus also with some potential to be context-contemporary. No relationships guaranteed, however. Waste Period Preforence Re-using ?Single platform flake core Period MBA>EIA date. MBA>EIA date. Sm ish angular piece. Tore fragment/shatter Image: Shatter Shatter Sm, thick, some ?I removal scars amongst many nat facets. Shatter Shatter Sm, thick, chips. Flake fragment Image: Shatter Image: Shatter Sm, thick, chips. Flake fragment Image: Shatter Image: Shatter Side scraper + knife ?BA> MBA>EIA Image: Shatter Side scraper + knife ?BA> MBA>EIA Image: Shatter Side scraper + knife ?BA> MBA>EIA Image: Shatter Side scraper ?BA>	Pottery:					
Summary: Majority, if not all, probably BA>, some more likely MBA>EMIA+, with a couple of more significantly retouched examples State is a state of the context and their horizons of recovery, if possible. Given quantity and consistency, there is the potential that this could be a broadly related group of MBA>EIA date and thus also with some potential to be context-contemporary. No relationships guaranteed, however. Waste Period Preference Re-using Single platform flake core Period MBA>EIA date and thus also with some potential to be context-contemporary. No relationships guaranteed, however. Waste Single platform flake core Period Preference Re-using Single platform flake core Image: state date and thus also with some potential to be context-contemporary. No relationships unclear, MBA>EIA Image: state date and thus also with some potential to be context and scars. Watter Image: state date and thus also with some potential to be context and scars almongst many nat facets. State image: state date and thus also with some potential scars. Shatter Image: state date and thus image: state date and thu	Notes:	Small to medium sized flakes and this overall, with nothing of quality.	k angular chunk	s, generally a poo	or looking group	
more significantly retouched examples <eia. a="" and="" be="" broadly="" consider="" consistency,="" context="" could="" due="" geology.="" given="" group="" horizons="" if="" is="" mba="" nature="" of="" possible.="" potential="" quantity="" recovery,="" refationships="" related="" that="" the="" their="" there="" this="" to="" unclear,="">EIA date and thus also with some potential to be context-contemporary. No relationships guaranteed, however. Waste Period Preference Re-using Single platform flake core MBA>EMIA+ Imediate state thick chunk, mostly unused, 1 sm area of a couple of flake removal scars. Multiplatform flake core Imediate state stat</eia.>	Summary:	Majority, if not all, probably BA>, some more likely MBA>EMIA+, with a couple of				
geology Consider the context and their horizons of recovery, if possible. Given quantity and consistency, there is the potential that this could be a broadly related group of MBA>EIA date and thus also with some potential to be context-contemporary. No relationships guaranteed, however. Waste Period Period Preference Re-using Single platform flake core MBA>EIA Multiplatform flake core MBA>EIA Re-using Multiplatform flake core MBA>EIA Sm. shi angular piece. Core fragmenty shatter Sm. shi angular piece. Core fragment/shatter Sm. thick, some ?fl removal scars amongst many nat facets. Shatter Sm. shi thick ang piece. Flake fragment Sm. thick, chips. Sm. thick, chips. Sm. shi thick. Sm. shi thick. Flake fragment Sm. lat brk. Sm. lat brk. Sm. lat brk. Sm. shi thick. ?Flake Sm. lat brk. Sm. lat brk. Sm. lat brk. Sm. lat brk. ?Flake Zigish med sized fl, 1 longer lat shows dir abr ret forming slightly uneven edge. Other lat a short thin edge with dir abras. Sm. thick, broad cortxd dist end shows unever edge of dir abra chippy ret across width. Hollow scraper for thing edge leading to a hinged pointed tip with scars on tip. ?MBA>EIA <		more significantly retouched examples <eia. due="" relationships="" td="" the<="" to="" unclear,=""></eia.>				
possible. Given quantity and consistency, there is the potential that this could be a broadly related group of MBA>EIA date and thus also with some potential to be context-contemporary. No relationships guaranteed, however. Waste Period Preference Re-using Single platform flake core MBA>EMA+ Re-using Single platform flake core MBA>EMA+ Re-using Sm-ish angular piece. To the second scars amongst many nat facets. Single platform flake core Re-using Sm, thick, some ?fl removal scars amongst many nat facets. Single platform flake core Image: Single platform flake core Single platform flake core Sm, thick, some ?fl removal scars amongst many nat facets. Single platform flake core Image: Single platform flake core Image: Single platform flake core Image: Single platform flake core Single platform flake core Single platform flake core Image: Single platform flake core Image: Single platform flake core Flake fragment Single platform flake core Single platform flake core Image: Single platform flake core Image: Single platform flake core Single platform flake core Single platform flake core Image: Single platform flake core Image: Single platform flake core Single platform flake core Single platform flake core Image: Single platfo		geology. Consider the nature of th	ne context and	their horizons	of recovery, if	
broadly related group of MBA>EIA date and thus also with some potential to be context-contemporary. No relationships guaranteed, however. Waste Period Period Period Re-using Single platform flake core MBA>EMIA+ Med sized thick chunk, mostly unused, 1 sm area of a couple of flake removal scars. Multiplatform flake core Image: Single flake removal scars. Multiplatform flake core Sm.sh angular piece. Zore fragment/shatter Image: Single flake removal scars. Core fragment/shatter Sm. thick, chips. Flake fragment Image: Single flage. Flake fragment Sm, thick, chips. Flake fragment Image: Single flage. Sm, dist, inv chips. Single flage. Single flage. Single flage. Flake fragment Single flage. Image: Single flage. Single flage. Single scraper + knife Single flage. Single flage. Single flage. It is deg with dir abras. Single flage. Single flage. Single flage. It is degle with dir abras. Single flage. Single flage. Single flage. Flake fragment Single flage. Single flage. Single flage. Single flage. </td <td></td> <td colspan="4">possible. Given quantity and consistency, there is the potential that this could be a</td>		possible. Given quantity and consistency, there is the potential that this could be a				
Image: Contemporary. No relationships guaranteed, however. Waste Period Preference Re-using ?Single platform flake core MBA>EMIA+ MBA>EMIA+ MBA>EMIA+ Med sized thick chunk, mostly unused, 1 sm area of a couple of flake removal scars. MMItiplatform flake core Image: Comparison of the compari		broadly related group of MBA>EIA	date and thus a	also with some	potential to be	
Waste Period Preference Re-using ?Single platform flake core MBA>EMIA+ Image: Single platform flake core		context-contemporary. No relations	hips guaranteed	, however.		
2Single platform flake core MBA>EMIA+ Multiplatform flake core Ism sha angular piece. Core fragment/shatter Ism, thick, some 7fl removal scars amongst many nat facets. Shatter Ism, thick, ang piece. Flake Ism, thick, some 7fl removal scars amongst many nat facets. Shatter Ism, thick, chips. Flake fragment Ism, thick, chips. Sm, inreg vent. Ism, thick, chips. Retouched Ism, thick, broad cortxd dist end shows dir abr ret forming slightly uneven edge. Other lat a short thin edge with dir abras. End scaraper Ism, thick, broad cortxd dist end shows uneven edge of dir abr chippy ret across width. 2Hollow scraper/piercer Ism of frag. 1 lat steep, other thin with scars on tip. ?Retouched Ism, 1 uneven lat with inv abr ?ret, chips, brk. Multiplexed Ism, 1 uneven lat with orabr, brk. Utilised <td>Waste</td> <td></td> <td>Period</td> <td>Preference</td> <td>Re-using</td>	Waste		Period	Preference	Re-using	
Med sized thick chunk, mostly unused, 1 sm area of a couple of flake removal scars. Multiplatform flake core Sm-ish angular piece. ?Core fragment/shatter Sm, thick, some 7fl removal scars amongst many nat facets. Shatter Sm thick and piece. Flake Flake fragment Sm, thick, chips. Flake fragment Sm, dist, inv chips. Flake fragment Sm, latbrk. ?Flake Zhift bruck. ?Flake fragment Sm, interg vent. Retouched Side scraper + knife Sm, thick, broad cortxd dist end shows dir abr ret forming slightly uneven edge. Other lat a short thin edge with dir abras. End scraper ?BA> Med sized thick trianc sec L fl, 1 lower lat shows a lrg broad deep concave edge with some dir ret and scars, this edge leading to a linged pointed tip with scars on tip. ?Retouched YMBA>EIA Med sized thick trianc sec L fl, 1 lower lat shows a lrg broad deep concave edge with some dir ret and scars, this edge leading to a linged pointed tip with scars on tip. ?Retouched YMBA>EIA Med sized thick fn, 1 lat steep, other thin with sm hollow of dir abr scars. *If so. ?Side scraper <td>?Single plat</td> <td>orm flake core</td> <td></td> <td>MBA>EMIA+</td> <td></td>	?Single plat	orm flake core		MBA>EMIA+		
Multiplatform flake core		Med sized thick chunk, mostly unused, 1 sm	area of a couple of	flake removal scars		
Sm.ish angular piece. ?Core fragment/shatter Sm, thick, some ?fl removal scars amongst many nat facets. Shatter Sm, thick, some ?fl removal scars amongst many nat facets. Shatter Sm, thick, some ?fl removal scars amongst many nat facets. Shatter Sm, thick, some ?fl removal scars amongst many nat facets. Flake fragment Sm, dist, inv chips. Flake fragment Sm, thick, chips. Flake fragment Sm, lat brk. ?Flake Sm, irreg vent. Retouched Side scraper + knife Irgish med sized fl, 1 longer lat shows dir abr ret forming slightly uneven edge. Other lat a short thin edge with dir abras. End scraper ?BA> Med sized thick trianc sec L fl, 1 lower lat shows a lrg broad deep concave edge with some dir ret and scars, this edge leading to a hinged pointed tip with scars on tip. ?Retouched *MEA>EIA Hollow scraper ?MBA>EIA Sm ?fl frag, 1 lat steep, other thin with sm hollow of dir abr cars. "If so. ?Side scraper ?MBA>EMIA+ Side scraper ?MBA>EIA Side scraper ?MBA>EIA Side scraper	Multiplatfor	m flake core				
?Core fragment/shatter		Sm-ish angular piece.	[1	[
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	Med sized thick triang sec L fl, lats and ang	convx dist show in	termittent various di	r ret, some inv ret
	1 lat			
F0 (0 0 1				
[9602]			4 lithics	24 g
Context:				
Pottery:				
Notes:	All small, mostly broken.			
Summary:	Little specific data. 1 possible MBA>	EMIA+ if worke	d, most of the oth	ers broken and
-	potentially residual; all might be.			
Waste		Period	Preference	Re-using
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?Notch on n	atural	*MBA>EMIA+		
	Sm thickish fl-like nat, 1 notch with poss ed	lge chipping. *If so.		
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Flake fragm	ent – hollow scraper			
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Flake fragm	ent			
	Dist, chips, sm area ?ret/util.			
Totals			131 lithics	2623 g

1.6. Contexts with notable contents

Context	Quantity	Description	Relationship to context
[5806]	1	Strong chalk-soil patinated ?flake, notable if so.	Possibly re-used.
(6407) [640?6]	1/2	Possible microburin style flake fragments, M>EN.	Residual.
(9205) [9204]	1	Fragment of bladelet, M>EN, rare in assemblage.	Presumably residual.

1.7. Comments

Raw materials

All this material was made using flint. Prominent amongst the remnant cortexes were examples of dirty looking rough buff types. A few examples of thin dark grey-black or greeny grey-black cortxes were noted, along with some smooth strong white cortexes. Much of the raw material was of average quality at best, though some better quality flint was also present, the matrices of these often of mixed black and grey flint, with few cherty inclusions or flaws.

It might be presumed that there was little if any flint raw material available in the brickearth type deposits that formed the prime underlying geology on this site and perhaps also in the immediate vicinity too. The understandable accidental recovery of some natural flint alongside the worked pieces does offer a view of the raw material that was available locally and a sample of these have been retained for future comparative study. The nature of the raw material that was available in the geological deposits present on site and locally is currently unknown however and, as part of any future work at this site, it would be useful if samples of the raw material that does occur in the various geologies and any ancient subsoils present could be obtained and submitted alongside any further flintwork that is recovered. Given the likely Later Prehistoric date of the majority of the flintwork present, it would be presumed that the raw materials that were used during that time had been gathered as close to their place of use as was possible. The Earlier Prehistoric flintwork may well have employed better quality raw material that was either carefully selected from the resource available locally, or obtained from slightly further afield, perhaps in areas of chalk geology.

2. Catalogue of burnt flint 'potboilers'

Context	Quantity	Weight	Notes	Pottery present
(9106) [9104]	13	44	Small spalls/splinters, some likely burnt, others	
			potentially burnt, could be spalls from larger	
			'potboiler' nodules.	
(9107) [9104]	7	14	Small spalls/splinters, some likely burnt, others	
			potentially burnt, could be spalls from larger	
			'potboiler' nodules.	
(9107) [9104]	27	81	Small spalls/splinters, some likely burnt, others	
			potentially burnt, could be spalls from larger	
			'potboiler' nodules.	
Totals	47	139 g		

This material was weighed and reviewed unwashed and discarded.

3. Catalogue of slag

Context	Quantity	Weight	Notes	Pottery present
(6311) Road	1	48	Small nodule of iron slag.	
(6410)	1	158	Medium sized tabular nodule, ?iron slag.	
(9105) [9104]	7	57	Small irregular nodules and 1 tabular piece of	
			slag.	
(9105) [9105]	1	259	Very dirty irregular surfaced tabular piece. Listed	
			as 'Slag'.	
(9106) [9104]	5	99	Small irregular nodules.	
Totals	15	621 g		

This material was weighed and reviewed uncleaned. Needs cleaning.

A brief review catalogue of the worked lithics, plus a catalogue of burnt flint 'potboilers', recovered during an archaeological evaluation at Wises Lane (Site C), Sittingbourne, Kent

Site Code: WLS2C-EV-23

Analyst: Paul Hart Last updated: 01.08.2023

For: Swale and Thames Archaeology Survey Company

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 - 1.1. Methodology
 - 1.2. The underlying geology and its implications
 - 1.3. Period Codes employed
 - 1.4. Abbreviations used in 1.5
 - 1.5. Catalogue: Quantification and brief review of the worked lithics
 - 1.6. Contexts with notable contents
- 1.7. Comments
- 2. Catalogue of burnt flint 'potboilers'
- 3. Bibliography

1. Quantification and brief review of the worked lithics

1.1. Methodology

The information presented was based upon an initial brief review of the worked lithics. The artefacts were examined using a hand lens of x10 magnification and each was considered on its own merits. Details about the nature of the context and any pottery recovered, which informed the interpretation but not the dating of the individual pieces, were noted where known. No cataloguing of the physical traits of the artefacts was conducted at this stage. No overall summary and period-based listing and review is presented at this time.

The brief review format was adopted due to the need for rapid feed-back to aid the swift production of a site report. The material was unwashed, but only slightly dirty. It was not dirty enough that any significant detail was likely to have remained hidden. Due to the brief nature of this review, it would be recommended in any subsequent assessment report which may be written, that it would be ideal if all of the worked lithics were re-catalogued and considered more fully (including recording a selection of the prime physical traits, for preservation by record). For practical necessity however, such work could be focussed upon the more specifically diagnostic elements and any pieces that can be dated by a reliable contemporary relationship with pottery or associated contexts which are tightly dated.

All dates given throughout are *circa*.

1.2. The underlying geology and its implications

This is considered to primarily comprise deposits of 'brickearth' type soils (ie. clays, silts, sands, or combinations of such), with occasional areas of gravels (Peter Cichy *pers. comm.*). Brickearth geology typically does not produce those patinas that are frequently helpful in the identification of residual worked lithics that are otherwise undiagnostic of being so on their own merits. As such, it is considered that none of the worked lithics on this site can be guaranteed to be contemporary with their deposits or horizons on their own merits. The absence of strong obvious patinas also hinders the easy identification of those worked lithics that were re-used at a later date following their original creation and discard.

1.3. Period Codes employed

Period	Code	Date (circa)			
Mesolithic	Μ	9200	-	4000	ВС
Neolithic	Ν	4000	-	2300	BC
First/Early/Earlier Neolithic	EN	4000	-	3350/3000	BC
Beaker Period	ВК	2450	-	1750	BC
Bronze Age	BA	2100	-	1000/900	BC
Early Bronze Age	EBA	2100	-	1550	BC
Middle Bronze Age	MBA	1550	-	1350	BC
Mid to Late Bronze Age	MBA-LBA	1350	-	1150	BC
Earliest Iron Age	EIA	1000/900	-	600	BC
Early to Mid Iron Age	EMIA	600	-	350	BC

1.4. Abbreviations used in 1.5

Dating

>	:	To/or later
<	:	No later than
/	:	Or/or indicting a preference within a preceding broader range
?	:	Possibly
??	:	Just might be/very slight preference for

Key to abbreviations for notes

А	:	Advanced (patina).	nat	:	Natural.
abr	:	Abrupt (retouch).	nr	:	Near.
adj	:	Adjacent.	obv	:	Obviously.
adv	:	Advanced (patina).	oppos	:	Opposite.
ang	:	Angular.	P	;	Primary (flake).
В	:	Blade (flake) or Blue (patina).	PP	:	Platform preparation (abrasion).
back	:	Backed.	pat	:	Patina.
bifac	:	Bifacial (retouch).	plat	:	Platform.
BL	:	Bladelet (flake).	poss	:	Possible.
brk	:	Break.	prob	:	Probably.
BW	:	Blue-white (patina).	prx	:	Proximal (flake).
convx	:	Convex.	resid	:	Residual.
cortx	:	Cortex.	ret	:	Retouch.
dentic	:	Denticulate (retouch).	RM	:	Raw material.
dir	:	Direct (retouch).	RU	:	Re-use.
dist	:	Distal (flake).	S	:	Sort, Secondary (flake) or Strong (patina).
dors	:	Dorsal (flake).	sec	:	Section.
E	:	Early (patina).	SH	:	Short (flake).
eg	:	Example.	signif	:	Significant/ly.
exp	:	Expedient.	sm	:	Small.
fl	:	Flake.	SQ	:	Squat (flake).
frag	:	Fragment.	subseq	:	Subsequent.
G	:	Grey (patina).	term	:	Termination (flake).
incip	:	Incipient (cones of percussion).	Т	:	Tertiary (flake).
inc	:	Including.	triang	:	Triangular.
inv	:	Inverse (retouch).	trunc	:	Truncating/truncated.
irreg	:	Irregular.	u-w	:	Use-wear.
L	:	Long (flake).	util	:	Utilised.
lat	:	Lateral (flake).	Unpat	:	Unpatinated.
lrg	:	Large.	V/v	:	Very.
М	:	Moderate (patina).	vent	:	Ventral (flake).
marg	:	Marginal (retouch).	W	:	White (patina).
med	:	Medium (size).	Y	:	Yellowish (patina).
mod	:	Moderate.			

NB. In the notes, the character of the retouch can be considered as small sized and marginal unless stated otherwise.

1.5. Catalogue: Quantification and brief review of the worked lithics

Context			Total lithics	Total weight	
Context.	Information on the nature of the conte	xt if known	Total Intilies	Total Weight	
Pottery:	Date of any nottery present or the ceramic date of the context if known				
Notes:	Elements and trends of initial interest				
Summary:	Dates and relationshins to context				
Datinas:	Mostly uppatingted or vollowy cheen relationships upplean given the buildearth goals are				
Class/Type	Notas/Datails				
cluss/ Type	Notes/Details	renou	Frejerence	Ke-using	
TD 46 A 0 7	6 m		0/1 lithics	0/6 g	
Contoxt:			0/1 litlines	0/0 g	
Dottornu					
Pollery:	Proton (distal' like flake like fragment	notontially notur	al apoll /abotton		
Notes:	Brobably natural but rotained i	potentially natura	is context and	horizon is of	
Summary:	importance	ust in case th	is context and		
Masta	importance.	Devied	Droforongo	Douging	
2Notural		Periou	Prejerence	Re-using	
?Natural					
				104 -	
TP.46A De	ptn 1.1-1.4 m		6 intrifes	124 g	
Context:					
Pottery:		1 1/ 1 .		1	
Notes:	3 thick medium sized flakes, simply wo	orked/used, rest s	mall, nothing of q	uality.	
Summary:	Majority potentially MBA>EMIA+, re	elationships uncl	ear.		
Waste		Period	Preference	Re-using	
Flake fragm	lent				
201	V sm, chips.	1	1		
?Shatter					
Retouched		25.4			
Naturally ba	acked knife	/BA>	??MBA>EMIA+		
217	Med sized, 1 thick cortxd lat, other lat thin	with bifac chips and	inv ?ret.		
?Knife + end	1 scraper	BA>	??MBA>EMIA+	1 this dist same of	
	Med sized, thick, steep dist shows some di	r abr ret, 1 thin lat	some inv /scarring.	1 thin dist corner	
Misc ret fla					
Mise. ret. na	Sm triang sec 1 upper lat sm area inv ret				
<i>?IItilised</i>	oni, thang see, i upper lat sin area invite.				
Flake – side	scraper		2MBA>FMIA+		
T lake Slue	Med sized thick 1 steen lat dir ?scars chin	\$			
	Fred bized, then, I Steep lat an isearb, emp	5)			
TP-46A Der	nth: -1.45 m		1 lithic	11 g	
Context:					
Potterv:					
Notes:	Decent blade. Some chipping could	potentially be p	ost original disca	rd and ?re-use.	
11000051	unclear.	potentially be p	oot original aloca	iru unu rre use,	
Summary:	Blade could date widely. M>BK, but	slight preferen	ce for N>BK. Unc	lear if later re-	
e annai y i	use has occurred, or not.				
Utilised	· ···· · ····	Period	Preference	Re-usina	
Flake – knif	e	M>BK	27N>BK		
	Decent narrow B. thickish. ?PP NEEDS W	ASH, some fine abr	as. 1 sm area stror	ger scarring poss	
	post discard/?RU.	,	,	or or	
TP 47 A			1 lithic	2.σ	
Context:				- 5	
Pottery:					
Notes:	Small chinned flake				
Summary:	Little specific data				
Waste	Inthe specific undi	Period	Proference	Re-usina	
" usec		101100	rejerence	ne using	

Flake				
TD 47 D			(lithiag	106 -
IP.4/B			6 lithics	106 g
Context:				
Pottery:				
Notes:				
Summary:	3 more likely MBA>EMIA+ and mos	t, pernaps all, o	of the others coul	a relate. Given
	the quantity and consistency, would their context, but no associations gu	l have some pot aranteed, given	ential to be cont the geology.	emporary with
Waste	· · · · · · · · · · · · · · · · · · ·	Period	Preference	Re-usina
?Core chunl	x/shatter			
	Sm, thick, nat facets and couple partial fl sca	ar removals.		
Flake fragm	ent			
	Prx, thick, brks.			
Retouched	, , ,			
Hollow scra	per on natural		MBA>EMIA+	
	Sm. W pat nat facets, deep hollow possibly of	caused by notch wi	th semi-abr chippy r	et of 1 edge.
End scraper	· · · · · · · · · · · · · · · · · · ·		MBA>EMIA+	
2.nu sorup ol	Sm. convx dist shows some dir ret and abra	S.		
?Side scrape	er		MBA>EMIA+	
i brae berap	Sm-med SO fl dist cortex. 1 uneven lat som	e dir and inv abr r	et and brks. other la	t some dir abras?
	NEEDS WASH.			
?Utilised				
Flake				
	V sm. chips, 1 inv chipped notch/hollow.		I	
	1 · · · · F-/ · · · FF · · · · / · ·			
(2409) [24	081		1 lithic	4 g
Context:				8
Pottery:				
Notes				
Summary:	Little specific data: notentially residu	ual		
Wasto	Dittle specific data, potentially resid	Pariod	Proforanco	Po-usina
Flake fragm	ont	Teriou	Trejerence	Re-using
Flake flagin	Dist brks			
(2411) [24	10]		6 lithics	26 g
(2411)[24			0 Intilies	20 g
Dottory				
Pottery:	All amall an years amall sized flabor and	fue an ente		
Notes:	All small of very small sized liakes and	Tragments.		
Summary:	Little specific data. 1 perhaps MBA>	EMIA+, relations	snips unclear.	р :
Waste		Perioa	Preference	Re-using
Flake				
	Chips and brks.			
Flake fragm	ent			
	V sm, chips and brks.			
?Retouched	•			
Misc. ?ret. fl	ake			
777. 7	V sm, dist end inv abr apparent ret, but too	sm to hold.		
Utilised				
Flake – knif	e		?MBA>EMIA+	
	Sm.	ſ		
Flake – end	scraper + knite			
?Utilised				
Flake				
	V sm, chips.			
1				

(2508) [25	06]		2 lithics	31 g
Context:				
Pottery:				
Notes:				
Summary:	Little specific data, 1 at least potenti	ally residual and	l both might be.	
Waste		Period	Preference	Re-using
2 flakes				Ŭ
	1 P, 1 S with post-discard chips.	•		
(2509)			2 lithics	8 g
Context:				
Pottery:				
Notes:	Small.			
Summary:	Little specific data. Slight preferent each other and the context unclear.	ice for MBA>EM	IA+ for both. R	elationships to
Utilised		Period	Preference	Re-using
Side scrape	r	?BA>	?MBA>EMIA+	
?Utilised				
Flake – holl	ow scraper	?BA>	??MBA>EMIA+	
	*		I	
(3207) [32	06]		3 lithics	4 g
Context:				
Pottery:				
Notes:	1 small primary and 2 tiny flakes with	minor chipping.		
Summary:	Little specific data.			
147 /	▲	Dariad	Proforence	Re-usina
waste		renou	11010101100	
3 Flakes		renou	Trejerence	110 0.011.09
3 Flakes		renou	Treference	no using
3 Flakes (4601)		renou	3 lithics	158 g
3 Flakes (4601) Context:		renou	3 lithics	158 g
3 Flakes (4601) Context: Pottery:		renou	3 lithics	158 g
Waste3 Flakes(4601)Context:Pottery:Notes:	Notably 1 crude looking broken pote	ntial 'Y'-shaped c	3 lithics	158 g N>EIA, perhaps
Waste 3 Flakes (4601) Context: Pottery: Notes:	Notably 1 crude looking broken pote most likely <eba and="" en<br="" possibly="">otherwise a hollow or even horned a Prehistoric examples of the latter two</eba>	ntial 'Y'-shaped c if a formal 'Y' t scraper, which co are perhaps mos	3 lithics ore tool, broadly ool (see Butler) ould date later, t st typically made	N>EIA, perhaps 2005, 133-134), hough the Later on flakes (Buter
3 Flakes (4601) Context: Pottery: Notes:	Notably 1 crude looking broken pote most likely <eba and="" en<br="" possibly="">otherwise a hollow or even horned Prehistoric examples of the latter two 2005, 183-185) or more flake-like pie</eba>	ntial 'Y'-shaped c if a formal 'Y' t scraper, which co are perhaps mos ces of natural. 1 o	3 lithics ore tool, broadly ool (see Butler to ould date later, to st typically made other crude looking	N>EIA, perhaps 2005, 133-134), hough the Later on flakes (Buter ng scraper and a
Waste 3 Flakes (4601) Context: Pottery: Notes:	Notably 1 crude looking broken pote most likely <eba and="" en<br="" possibly="">otherwise a hollow or even horned a Prehistoric examples of the latter two 2005, 183-185) or more flake-like pie small piece of natural utilised as a hol</eba>	ntial 'Y'-shaped c if a formal 'Y' t scraper, which co are perhaps mos ces of natural. 1 o low scraper, both	3 lithics ore tool, broadly ool (see Butler ould date later, t st typically made other crude lookin MBA>EMIA+, for	N>EIA, perhaps 2005, 133-134), hough the Later on flakes (Buter ng scraper and a mer more likely
Waste 3 Flakes (4601) Context: Pottery: Notes:	Notably 1 crude looking broken pote most likely <eba and="" en<br="" possibly="">otherwise a hollow or even horned Prehistoric examples of the latter two 2005, 183-185) or more flake-like pie small piece of natural utilised as a hol <eia.< td=""><td>ntial 'Y'-shaped c if a formal 'Y' t scraper, which co are perhaps mos ces of natural. 1 o low scraper, both</td><td>3 lithics ore tool, broadly ool (see Butler to ould date later, t st typically made other crude lookin MBA>EMIA+, for</td><td>N>EIA, perhaps 2005, 133-134), hough the Later on flakes (Buter ng scraper and a mer more likely</td></eia.<></eba>	ntial 'Y'-shaped c if a formal 'Y' t scraper, which co are perhaps mos ces of natural. 1 o low scraper, both	3 lithics ore tool, broadly ool (see Butler to ould date later, t st typically made other crude lookin MBA>EMIA+, for	N>EIA, perhaps 2005, 133-134), hough the Later on flakes (Buter ng scraper and a mer more likely
Waste 3 Flakes (4601) Context: Pottery: Notes: Summary:	Notably 1 crude looking broken pote most likely <eba and="" en<br="" possibly="">otherwise a hollow or even horned Prehistoric examples of the latter two 2005, 183-185) or more flake-like pie small piece of natural utilised as a hol <eia. N>EIA/?EN, MBA>EIA and MBA>I Relationships unclear.</eia. </eba>	ntial 'Y'-shaped c if a formal 'Y' t scraper, which co are perhaps mos ces of natural. 1 o low scraper, both EMIA+ elements	3 lithics ore tool, broadly ool (see Butler 1 buld date later, t st typically made other crude lookin MBA>EMIA+, for 5, the former 1	158 g N>EIA, perhaps 2005, 133-134), hough the Later on flakes (Buter ng scraper and a rmer more likely residual if EN.
Waste 3 Flakes (4601) Context: Pottery: Notes: Summary: Retouched	Notably 1 crude looking broken pote most likely <eba and="" en<br="" possibly="">otherwise a hollow or even horned a Prehistoric examples of the latter two 2005, 183-185) or more flake-like pie small piece of natural utilised as a hol <eia. N>EIA/?EN, MBA>EIA and MBA>I Relationships unclear.</eia. </eba>	ntial 'Y'-shaped c if a formal 'Y' t scraper, which co are perhaps mos ces of natural. 1 o low scraper, both EMIA+ elements Period	3 lithics ore tool, broadly ool (see Butler 1 buld date later, t st typically made other crude lookin MBA>EMIA+, for 5, the former 1 <i>Preference</i>	158 g N>EIA, perhaps 2005, 133-134), hough the Later on flakes (Buter ng scraper and a rmer more likely residual if EN. <i>Re-using</i>
Waste 3 Flakes (4601) Context: Pottery: Notes: Summary: Retouched ?'Y'-shaped	Notably 1 crude looking broken pote most likely <eba and="" en<br="" possibly="">otherwise a hollow or even horned a Prehistoric examples of the latter two 2005, 183-185) or more flake-like pie small piece of natural utilised as a hol <eia. N>EIA/?EN, MBA>EIA and MBA>I Relationships unclear.</eia. </eba>	ntial 'Y'-shaped c if a formal 'Y' t scraper, which co are perhaps mos ces of natural. 1 o low scraper, both EMIA+ elements Period N>EIA	3 lithics ore tool, broadly ool (see Butler 1 ould date later, t ot typically made other crude lookin MBA>EMIA+, for , the former 1 Preference ? <eba ??en<="" td=""><td>158 g N>EIA, perhaps 2005, 133-134), hough the Later on flakes (Buter ng scraper and a mer more likely residual if EN. <i>Re-using</i></td></eba>	158 g N>EIA, perhaps 2005, 133-134), hough the Later on flakes (Buter ng scraper and a mer more likely residual if EN. <i>Re-using</i>
Waste 3 Flakes (4601) Context: Pottery: Notes: Summary: Retouched ?'Y'-shaped	Notably 1 crude looking broken pote most likely <eba and="" en<br="" possibly="">otherwise a hollow or even horned a Prehistoric examples of the latter two 2005, 183-185) or more flake-like pie small piece of natural utilised as a hol <eia. N>EIA/?EN, MBA>EIA and MBA>I Relationships unclear. core tool/hollow/horned scraper Lrg thick trinag sec nat, several fl scar rem</eia. </eba>	ntial 'Y'-shaped c if a formal 'Y' t scraper, which co are perhaps mos ces of natural. 1 o low scraper, both EMIA+ elements Period N>EIA novals. 1 lat shows	3 lithics ore tool, broadly ool (see Butler buld date later, t st typically made other crude lookin MBA>EMIA+, for , the former in Preference ? <eba ??en<br="">inv semi-abrt bold</eba>	158 g N>EIA, perhaps 2005, 133-134), hough the Later on flakes (Buter ng scraper and a rmer more likely residual if EN. <u>Re-using</u> ret, other lat some
Waste 3 Flakes (4601) Context: Pottery: Notes: Summary: Retouched ?'Y'-shaped	Notably 1 crude looking broken pote most likely <eba and="" en<br="" possibly="">otherwise a hollow or even horned Prehistoric examples of the latter two 2005, 183-185) or more flake-like pie small piece of natural utilised as a hol <eia. N>EIA/?EN, MBA>EIA and MBA>I Relationships unclear. core tool/hollow/horned scraper Lrg thick trinag sec nat, several fl scar ren bifac scars and chips. 1 narrow end trimme Other end a broad uneven obliq angld ec possibly a broken 'Y' shaped tool with 1 pro-</eia. </eba>	ntial 'Y'-shaped c if a formal 'Y' t scraper, which co are perhaps mos ces of natural. 1 c low scraper, both EMIA+ elements Period N>EIA novals. 1 lat shows i ed to a steep blunt v lge with slight cono ojection broken-off.	3 lithics ore tool, broadly ool (see Butler 3 ould date later, t st typically made other crude lookin MBA>EMIA+, for , the former 1 <i>Preference</i> ? <eba ??en<br="">inv semi-abrt bold ertical face by dir re- cave hollow of dir</eba>	158 g N>EIA, perhaps 2005, 133-134), hough the Later on flakes (Buter ng scraper and a rmer more likely residual if EN. Re-using ret, other lat some et (?for use/?butt). fairly abr ret, just
Waste 3 Flakes (4601) Context: Pottery: Notes: Summary: Retouched ?'Y'-shaped Double side	Notably 1 crude looking broken pote most likely <eba and="" en<br="" possibly="">otherwise a hollow or even horned Prehistoric examples of the latter two 2005, 183-185) or more flake-like pie small piece of natural utilised as a hol <eia. N>EIA/?EN, MBA>EIA and MBA>I Relationships unclear. core tool/hollow/horned scraper Lrg thick trinag sec nat, several fl scar rem bifac scars and chips. 1 narrow end trimme Other end a broad uneven obliq angld ed possibly a broken 'Y' shaped tool with 1 pro-</eia. </eba>	ntial 'Y'-shaped c if a formal 'Y' t scraper, which co are perhaps mos ces of natural. 1 o low scraper, both EMIA+ elements Period N>EIA novals. 1 lat shows i ed to a steep blunt v lge with slight com pjection broken-off.	3 lithics ore tool, broadly ool (see Butler 3 ould date later, t st typically made other crude lookin MBA>EMIA+, for , the former 1 <i>Preference</i> ? <eba ??en<br="">inv semi-abrt bold ertical face by dir re cave hollow of dir</eba>	158 g N>EIA, perhaps 2005, 133-134), hough the Later on flakes (Buter ng scraper and a rmer more likely residual if EN. <i>Re-using</i> ret, other lat some et (?for use/?butt). fairly abr ret, just
Waste 3 Flakes (4601) Context: Pottery: Notes: Summary: Retouched ?'Y'-shaped Double side	Notably 1 crude looking broken pote most likely <eba and="" en<br="" possibly="">otherwise a hollow or even horned a Prehistoric examples of the latter two 2005, 183-185) or more flake-like pie small piece of natural utilised as a hol <eia. N>EIA/?EN, MBA>EIA and MBA>I Relationships unclear. core tool/hollow/horned scraper Lrg thick trinag sec nat, several fl scar rem bifac scars and chips. 1 narrow end trimme Other end a broad uneven obliq angld ec possibly a broken 'Y' shaped tool with 1 pro +end scraper Med sized thick S fl, much inv chipping and</eia. </eba>	ntial 'Y'-shaped c if a formal 'Y' t scraper, which co are perhaps mos ces of natural. 1 o low scraper, both EMIA+ elements Period N>EIA novals. 1 lat shows i ed to a steep blunt v lge with slight cono ojection broken-off.	3 lithics ore tool, broadly ool (see Butler 1 buld date later, t st typically made other crude lookin MBA>EMIA+, for , the former 1 <i>Preference</i> ? <eba ??en<br="">inv semi-abrt bold i ertical face by dir re cave hollow of dir ?MBA>EIA abr ret, all edges irr</eba>	158 g N>EIA, perhaps 2005, 133-134), hough the Later on flakes (Buter ng scraper and a rmer more likely residual if EN. Re-using ret, other lat some et (?for use/?butt). fairly abr ret, just eg. Crude.
Waste 3 Flakes (4601) Context: Pottery: Notes: Summary: Retouched ?'Y'-shaped Double side Utilised	Notably 1 crude looking broken pote most likely <eba and="" en<br="" possibly="">otherwise a hollow or even horned a Prehistoric examples of the latter two 2005, 183-185) or more flake-like pie small piece of natural utilised as a hol <eia. N>EIA/?EN, MBA>EIA and MBA>I Relationships unclear. core tool/hollow/horned scraper Lrg thick trinag sec nat, several fl scar ren bifac scars and chips. 1 narrow end trimme Other end a broad uneven obliq angld ed possibly a broken 'Y' shaped tool with 1 pro +end scraper Med sized thick S fl, much inv chipping and</eia. </eba>	ntial 'Y'-shaped c if a formal 'Y' t scraper, which co are perhaps mos ces of natural. 1 o low scraper, both EMIA+ elements Period N>EIA novals. 1 lat shows i ed to a steep blunt v lge with slight cono ojection broken-off.	3 lithics ore tool, broadly ool (see Butler 1 buld date later, t st typically made other crude lookin MBA>EMIA+, for s, the former n <i>Preference</i> ? <eba ??en<br="">inv semi-abrt bold i ertical face by dir re cave hollow of dir ?MBA>EIA abr ret, all edges irr</eba>	158 g N>EIA, perhaps 2005, 133-134), hough the Later on flakes (Buter ng scraper and a rmer more likely residual if EN. Re-using ret, other lat some et (?for use/?butt). fairly abr ret, just eg. Crude.
Waste 3 Flakes (4601) Context: Pottery: Notes: Summary: Retouched ?'Y'-shaped Double side Utilised Natural – ho	Notably 1 crude looking broken pote most likely <eba and="" en<br="" possibly="">otherwise a hollow or even horned a Prehistoric examples of the latter two 2005, 183-185) or more flake-like pie small piece of natural utilised as a hol <eia. N>EIA/?EN, MBA>EIA and MBA>I Relationships unclear. core tool/hollow/horned scraper Lrg thick trinag sec nat, several fl scar ren bifac scars and chips. 1 narrow end trimmed Other end a broad uneven obliq angld ed possibly a broken 'Y' shaped tool with 1 pro etend scraper Med sized thick S fl, much inv chipping and pollow scraper</eia. </eba>	ntial 'Y'-shaped c if a formal 'Y' t scraper, which co are perhaps mos ces of natural. 1 o low scraper, both EMIA+ elements Period N>EIA novals. 1 lat shows i ed to a steep blunt v lge with slight como pjection broken-off.	3 lithics ore tool, broadly ool (see Butler buld date later, t ottypically made other crude lookin MBA>EMIA+, for <i>Preference</i> ? <eba ??en<br="">inv semi-abrt bold ertical face by dir re cave hollow of dir ?MBA>EIA abr ret, all edges irr MBA>EMIA+</eba>	158 g N>EIA, perhaps 2005, 133-134), hough the Later on flakes (Buter ng scraper and a mer more likely residual if EN. <i>Re-using</i> ret, other lat some et (?for use/?butt). fairly abr ret, just
Waste 3 Flakes (4601) Context: Pottery: Notes: Summary: Retouched ?'Y'-shaped Double side Utilised Natural – ho	Notably 1 crude looking broken pote most likely <eba and="" en<br="" possibly="">otherwise a hollow or even horned a Prehistoric examples of the latter two 2005, 183-185) or more flake-like pie small piece of natural utilised as a hol <eia. N>EIA/?EN, MBA>EIA and MBA>I Relationships unclear. core tool/hollow/horned scraper Lrg thick trinag sec nat, several fl scar ren bifac scars and chips. 1 narrow end trimme Other end a broad uneven obliq angld ec possibly a broken 'Y' shaped tool with 1 pro +end scraper Med sized thick S fl, much inv chipping and pollow scraper Sm nat with abrupt concave edge showing</eia. </eba>	ntial 'Y'-shaped c if a formal 'Y' t scraper, which co are perhaps mos ces of natural. 1 o low scraper, both EMIA+ elements Period N>EIA novals. 1 lat shows i ed to a steep blunt v lge with slight cono ojection broken-off. 1 lat with dir semi- abras.	3 lithics ore tool, broadly ool (see Butler buld date later, t st typically made other crude lookin MBA>EMIA+, for <i>Preference</i> ? <eba ??en<br="">inv semi-abrt bold ertical face by dir re cave hollow of dir ?MBA>EIA abr ret, all edges irr MBA>EMIA+</eba>	158 g N>EIA, perhaps 2005, 133-134), hough the Later on flakes (Buter ng scraper and a mer more likely residual if EN. Re-using ret, other lat some et (?for use/?butt). fairly abr ret, just reg. Crude.

(4602)			9 lithics	56 g					
Context:									
Pottery:									
Notes:	Mostly small flakes and fragments, 3 more medium sized, many with chips and breaks, these potentially residual. Nothing of obvious quality, but very little cortex present. 1 small flake possibly accidentally struck/broken from a bifacially flaked piece, M>EBA if so. Slight suspicion that 1 triangular shaped miscellaneous retouched flake might also be Earlier Prehistoric. 2 piercers, reasonable but fairly simple and could date widely. Material related or variously residual?								
Summary:	A couple of elements could be <eba broadly="" m="">EBA, but whether all/most or any of the others are related is unclear. No relationships are guaranteed given the geology and a few other pieces shows chips and breaks and have the potential to be residual. Consider the nature of the context and their horizons of recovery, if nossible</eba>								
Waste		Period	Preference	Re-using					
Flake									
	Thin, chips and brks.								
?Shatter/?na	atural								
Retouched									
Misc. ret. pie	<pre>200 /</pre>	EBA	M>EBA						
Mice rot flal	Sm, a fi poss from a bifactally flaked piece.		22M>EDA						
MISC. Tet Hal	Sm thin triang plan 1 lat steen with chins of	ther thin with a	::M>EDA	n some ?ret scars					
	and chips. Plat scars. ?PP.		bras, pointed dist d	p some net stars					
Piercer	,,,,,,								
	Thin fl, thin prx plat cortxd, dist end shows leading edges trimmed by some dir ret (1 lat shallow semi-abr ret scars at very tip.	2 obliq angld b semi-abr, 1 sha	rks which meet at allow on abrupt ed	a sharp tip, both ge) and a few inv					
Piercer									
	Sm fl, dir abr likely ret truncates dist end to 2 s meet to form small pointed tip	hallow angled o	bliq edges (1 straigi	nt, 1 concave) that					
Misc. ret. fla	ke fragment								
	Med sized fl frag.								
Misc. ret. fla	Ke	- where							
2Deteuched	Possibly partly back-blunted, many chips and b	orks.							
Flake ord	acropor								
Flake – ellu	V sm plat brk hinged dist end some dir 2ret sc	ars							
	v shi, plat brit, hinged dist end some an riet se								
(4605) [46	04]		1 lithic	299 g					
Context:									
Pottery:									
Notes:	Somewhat simple/crudely executed (but having a tapering small narrow tranchet fl	t perfectly fur aked end appe	nctional) pick/axe aring little used	e, its final form					
Summary:	M pick/axe, presumably residual, parti the presence of an opposed platform sn	cularly as sol nall blade cor	e recovery in thi e in (4902), whic	s context. Note ch is residual.					
Retouched		Period	Preference	Re-using					
Tranchet ?p	ick/axe M								
	Lrg thick lenticular piece with bold bifacial fla tapers to a narrow flat thin tip formed by a t edge.	king along long ranchet remova	sides, 1 end mostly l, only minor chipp	cortex, other end ing on this (final)					
(4802) TP	A TR 48		4 lithics	115 g					
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Context:									
Pottery:									
Notes:	Notable is 1 cylindrical largely single platfor	rm flake/b	olade core, more	typically M>EN,					
	part-used and perhaps more likely EN, but co	nsider if th	nere is any preced	ence for such in					
	the vicinity, considering that there is evidence	for the M	in this site assemb	olage					
Summary:	1 potential M>EN/?EN, slight preference for EN but could be earlier, relationship to								
	the nature of the context unclear. The filints could, but need not, be related. Consider the nature of the context and the distribution if possible. If M likely residual and								
	the nature of the context and the distribu	tion, if po	ossible. If M like	ly residual and					
Wasto	given the low quantity is best considered r	esidual IO	r now.	Dousing					
2Single plat	Form flake and blade core	erioù ,	MSEN /2EN	Re-using					
: Single plati	I argely single plat cylindrical nodule worked part	way round	I and sm B fl remov	al scars WASH					
Retouched/1	Itilised	way i ouiiu,							
Misc ?ret fl	ake								
	Sm. thin dist shows inv shallow semi-invas scars an	d chips.							
?Utilised		Po							
Flake/shatt	er – knife								
	Thick tert.								
Flake fragm	ent – knife								
	Dist.								
(4902) T.49	9 A		1 lithic	16 g					
Context:									
Pottery:									
Notes:									
Summary:	Likely M>EBA, relationship to context	unclear	, but potential	ly/presumably					
	residual.	• 1	D C						
Retouched		eriod	Preference	Re-using					
Misc. ret. fla	Ke – ?ret. backed/?side scraper <eba< td=""><td>to a staap a</td><td>M>EBA</td><td>a broad ablig byly</td></eba<>	to a staap a	M>EBA	a broad ablig byly					
Fairly decent looking black flint, T fl, 1 lat prob ret to a steep convx edge, other lat a broad obliq brk with some scars, both edges meeting and truncating dist and									
	with bonie search source ages mooning and a aneadan	5 dibt cildi							
(4902) T.49) B		12 lithics	589 g					
Context:									
Pottery:									
Notes:	Notable is 1 small-medium sized opposed p	olatform b	lade core, M>EN	/more likely M.					
	Other material more likely BA> and MBA>EMI	A+, some «	<eia. mater<="" some="" td=""><td>ial.</td></eia.>	ial.					
Summary:	1 likely M, residual, with several likely BA>	, some of	these more likely	y MBA>EIA and					
	MBA>EMIA+. The Later Prehistoric could	, but nee	d not, be associa	ated with each					
	other and their context, given the quantity	v and simi	larities, though	no associations					
	are guaranteed, given the underlying geolo	gy.	D (
Waste	P	eriod	Preference	Re-using					
Opposed pla	Attorm blade core M>EN		М						
251-1	Med sized, worked all way round		2MDA, EMIA						
?Flake core	BA>		?MBA>EMIA+						
Flake	Lrg thick lump, part used								
гіаке	Drim								
Flake	111111.								
Thance	Sm. chips.								
Flake									
	Sm, chips, prx brk.								
Flake									
	Sm, chips		-						
Flake									
	Sm, chips.								

	ent			
	Prim prx, chips.			
Flake fragm	ent			
	Sm, lat brk, chips.			
Retouched				
Double side	scraper	BA>	MBA>EIA	
	Med sized prim, 1 lower lat broad straigh abr and semi-abr ret, dir ?notch between	tish edge inv abr re	et, oppos dist corner	straight edge dir
Side scrape	•	?BA>	?MBA>EIA	
	Thick, 1 lat dir abr ret forms adj short strai	ght and shallow hol	low edges.	
Hollow scra	per on natural/shatter	Ĭ	MBA>EMIA+	
	Sm, broad concave edge of abr chippy ret			
?Utilised				
Flake – knif	2		*MBA>EMIA+	
	Sm, chips on thin broad dist. *If so.			
(5302) A			3 lithics	7 g
Context:				
Pottery:				
Notes:	All small tools.			
Summary:	All more likely BA> and probably M	BA>EMIA+. Give	n consistency and	l quantity, they
5	have some potential to be relate	d to each and	also their conte	ext, though no
	relationships are guaranteed. Co	nsider the nat	ure of the cont	ext and their
	distribution, if possible.			
Retouched	· •	Period	Preference	Re-using
?End scrape	r	?BA>	?MBA>EMIA+	0
	Sm fl, 1 dist corner shows inv semi-abr ret	truncated by brk.		
End+side sc	raper	?BA>	?MBA>EMIA+	
	Sm P, 1 lower lat and short length of pa	rt of adj dist end s	hows dir abr ret for	rming right-angld
	straight edges.			
Hollow scra	per		?MBA>EMIA+	
	Sm irreg fl frag, 1 lat shows hollow of inv s	emi-abr ret.		
(5302) B			1 lithic	25 g
Context:				
Pottery:				
Notes:				
Notes: Summary:	Likely MBA>EMIA+, relationship un	clear, but could	be residual as sol	e recovery.
Notes: Summary: Retouched	Likely MBA>EMIA+, relationship un	clear, but could Period	be residual as sol Preference	e recovery. Re-using
Notes: Summary: Retouched Hollow scra	Likely MBA>EMIA+, relationship un per on natural	clear, but could Period MBA>EMIA+	be residual as sol Preference ?MBA>EIA	e recovery. Re-using
Notes: Summary: Retouched Hollow scra	Likely MBA>EMIA+, relationship un per on natural Fl-like nat, 1 steep lat, other thin with broa	clear, but could <i>Period</i> MBA>EMIA+ d notched hollow w	be residual as sol Preference ?MBA>EIA rith some dir ret/sca	e recovery. <i>Re-using</i> rs.
Notes: Summary: Retouched Hollow scra	Likely MBA>EMIA+, relationship un per on natural Fl-like nat, 1 steep lat, other thin with broa	clear, but could l <i>Period</i> MBA>EMIA+ d notched hollow w	be residual as sol <i>Preference</i> ?MBA>EIA rith some dir ret/sca	e recovery. <i>Re-using</i> rs.
Notes: Summary: Retouched Hollow scra (5306) [53	Likely MBA>EMIA+, relationship un per on natural Fl-like nat, 1 steep lat, other thin with broa 04]	clear, but could l Period MBA>EMIA+ d notched hollow w	be residual as sol Preference ?MBA>EIA rith some dir ret/sca 3 lithics	e recovery. Re-using rs. 26 g
Notes: Summary: Retouched Hollow scra (5306) [53 Context:	Likely MBA>EMIA+, relationship un per on natural Fl-like nat, 1 steep lat, other thin with broa 04]	clear, but could Period MBA>EMIA+ d notched hollow w	be residual as sol Preference ?MBA>EIA ith some dir ret/sca 3 lithics	e recovery. Re-using rs. 26 g
Notes: Summary: Retouched Hollow scra (5306) [53 Context: Pottery:	Likely MBA>EMIA+, relationship un per on natural Fl-like nat, 1 steep lat, other thin with broa 04]	clear, but could Period MBA>EMIA+ d notched hollow w	be residual as sol Preference ?MBA>EIA rith some dir ret/sca 3 lithics	e recovery. Re-using rs. 26 g
Notes: Summary: Retouched Hollow scra (5306) [53 Context: Pottery: Notes:	Likely MBA>EMIA+, relationship un per on natural Fl-like nat, 1 steep lat, other thin with broa 04]	clear, but could <i>Period</i> MBA>EMIA+ d notched hollow w	be residual as sol Preference ?MBA>EIA rith some dir ret/sca 3 lithics	e recovery. Re-using rs. 26 g
Notes: Summary: Retouched Hollow scra (5306) [53 Context: Pottery: Notes: Summary:	Likely MBA>EMIA+, relationship un per on natural Fl-like nat, 1 steep lat, other thin with broa 04] Little specific data.	clear, but could l Period MBA>EMIA+ d notched hollow w	be residual as sol Preference ?MBA>EIA ith some dir ret/sca 3 lithics	e recovery. Re-using rs. 26 g
Notes: Summary: Retouched Hollow scra (5306) [53 Context: Pottery: Notes: Summary: Waste	Likely MBA>EMIA+, relationship un per on natural Fl-like nat, 1 steep lat, other thin with broa 04] Little specific data.	clear, but could Period MBA>EMIA+ d notched hollow w Period	be residual as sol Preference ?MBA>EIA rith some dir ret/sca 3 lithics Preference	e recovery. Re-using rs. 26 g Re-using
Notes: Summary: Retouched Hollow scra (5306) [53 Context: Pottery: Notes: Summary: Waste ?Flake/natu	Likely MBA>EMIA+, relationship un per on natural Fl-like nat, 1 steep lat, other thin with broa 04] Little specific data. ral	clear, but could I Period MBA>EMIA+ d notched hollow w Period	be residual as sol Preference ?MBA>EIA Prith some dir ret/sca 3 lithics Preference	e recovery. Re-using rs. 26 g Re-using
Notes: Summary: Retouched Hollow scra (5306) [53 Context: Pottery: Notes: Summary: Waste ?Flake/natu	Likely MBA>EMIA+, relationship un per on natural Fl-like nat, 1 steep lat, other thin with broa 04] Little specific data. ral Sm.	clear, but could I Period MBA>EMIA+ d notched hollow w Period	be residual as sol Preference ?MBA>EIA rith some dir ret/sca 3 lithics Preference	e recovery. Re-using rs. 26 g Re-using
Notes: Summary: Retouched Hollow scra (5306) [53 Context: Pottery: Notes: Summary: Waste ?Flake/natu ?Flake/shat	Likely MBA>EMIA+, relationship un per on natural Fl-like nat, 1 steep lat, other thin with broa 04] Little specific data. ral Sm. ter	clear, but could Period MBA>EMIA+ d notched hollow w Period	be residual as sol Preference ?MBA>EIA rith some dir ret/sca 3 lithics Preference	e recovery. Re-using rs. 26 g Re-using
Notes: Summary: Retouched Hollow scra (5306) [53 Context: Pottery: Notes: Summary: Waste ?Flake/natu ?Flake/shat	Likely MBA>EMIA+, relationship un per on natural Fl-like nat, 1 steep lat, other thin with broa 04] Little specific data. ral Sm. ter Sm, chips.	clear, but could Period MBA>EMIA+ d notched hollow w Period	be residual as sol Preference ?MBA>EIA ith some dir ret/sca 3 lithics Preference	e recovery. Re-using rs. 26 g Re-using
Notes: Summary: Retouched Hollow scra (5306) [53 Context: Pottery: Notes: Summary: Waste ?Flake/natu ?Flake/shat Retouched	Likely MBA>EMIA+, relationship un per on natural Fl-like nat, 1 steep lat, other thin with broa D4] Little specific data. ral Sm. ter Sm, chips.	clear, but could Period MBA>EMIA+ d notched hollow w Period	be residual as sol Preference ?MBA>EIA ith some dir ret/sca 3 lithics Preference	e recovery. Re-using rs. 26 g Re-using
Notes: Summary: Retouched Hollow scra (5306) [53 Context: Pottery: Notes: Summary: Waste ?Flake/natu ?Flake/shat Retouched ?Side scrape	Likely MBA>EMIA+, relationship un per on natural Fl-like nat, 1 steep lat, other thin with broa D4] Little specific data. ral Sm. ter Sm, chips.	clear, but could Period MBA>EMIA+ d notched hollow w Period	be residual as sol Preference ?MBA>EIA ith some dir ret/sca 3 lithics Preference	e recovery. Re-using rs. 26 g Re-using
Notes: Summary: Retouched Hollow scra (5306) [53 Context: Pottery: Notes: Summary: Waste ?Flake/natu ?Flake/shat Retouched ?Side scrape	Likely MBA>EMIA+, relationship un per on natural Fl-like nat, 1 steep lat, other thin with broa 04] Little specific data. ral Sm. ter Sm, chips. er Chips all margs, some likely dir abr and ser	clear, but could l Period MBA>EMIA+ d notched hollow w Period Period ini-abr ret 1 lat with	be residual as sol Preference ?MBA>EIA rith some dir ret/sca 3 lithics Preference	e recovery. Re-using rs. 26 g Re-using

(5307) [53	04]		1 lithic	4 g				
Context:								
Pottery:								
Notes:								
Summary:	Little specific data. Possibly BA>EIA	, relationship u	nclear.					
Retouched		Period	Preference	Re-using				
Knife			?BA>EIA					
	Sm, thin, 1 lower lat inv semi-abr ret.							
(5309) [53	08]		4 lithics	10 g				
Context:								
Pottery:								
Notes:	All small.							
Summary:	2 at least likely MBA>EIA/EMIA+, 1 other tiny broken flake could predate and would be residual if so. Relationship of the others to each other and their context unclear, due to the geology.							
Waste		Period	Preference	Re-using				
Flake								
	Sm, chips, 1 ?modern chip.							
Retouched	-							
Scraper on 1	natural		MBA>EIA					
	Sm fl-like nat, short straight length 'dir' sen	ni-abr ret.						
Scraper on i	natural	l	MBA>EMIA+					
Miss yet ye	Sm fi-like nat, 1 short uneven straight lengt	in ret.						
Misc. ret. na	Urally Dacked llake	ort longth dir com	ni abr rot					
	v sin dL-like it hag, pix bik, i lower lat v si	iort lengul un sen	II-adi Tet					
(6306) [63	041		5 lithics	269 g				
(6306) [63	04]		5 lithics	269 g				
(6306) [63 Context: Pottery:	04]		5 lithics	269 g				
(6306) [63 Context: Pottery: Notes:	04] Medium to large sized thick crude loo broken flake which could, but need not	king pieces and	5 lithics	269 g er looking large				
(6306) [63 Context: Pottery: Notes: Summary:	04] Medium to large sized thick crude loo broken flake which could, but need not Majority likely MBA>EIA and MBA>	king pieces and , date earlier. • EMIA+. Given t	5 lithics	269 g er looking large d be related to				
(6306) [63 Context: Pottery: Notes: Summary:	04] Medium to large sized thick crude loo broken flake which could, but need not Majority likely MBA>EIA and MBA> each other and the context, thoug	king pieces and -, date earlier. •EMIA+. Given t gh no associat	5 lithics natural, plus 1 bett the quantity, could ions are guarant	269 g er looking large d be related to eed, given the				
(6306) [63 Context: Pottery: Notes: Summary:	04] Medium to large sized thick crude loo broken flake which could, but need not Majority likely MBA>EIA and MBA> each other and the context, thous underlying geology.	king pieces and , date earlier. •EMIA+. Given t gh no associat	5 lithics natural, plus 1 bett the quantity, could ions are guarant	269 g er looking large d be related to eed, given the				
(6306) [63 Context: Pottery: Notes: Summary: Waste	04] Medium to large sized thick crude loo broken flake which could, but need not Majority likely MBA>EIA and MBA> each other and the context, thoug underlying geology.	king pieces and t, date earlier. •EMIA+. Given t gh no associat Period	5 lithics natural, plus 1 bett the quantity, could ions are guarant Preference	269 g er looking large d be related to eed, given the <i>Re-using</i>				
(6306) [63 Context: Pottery: Notes: Summary: Waste ?Core	04] Medium to large sized thick crude loo broken flake which could, but need not Majority likely MBA>EIA and MBA> each other and the context, thou underlying geology.	king pieces and ;, date earlier. •EMIA+. Given t gh no associat Period	5 lithics natural, plus 1 bett the quantity, could ions are guarant Preference ?MBA>EMIA+	269 g er looking large d be related to eed, given the Re-using				
(6306) [63 Context: Pottery: Notes: Summary: Waste ?Core	04] Medium to large sized thick crude loo broken flake which could, but need not Majority likely MBA>EIA and MBA> each other and the context, thou underlying geology. Lrg thick ang chunk, some /fl removal scars	king pieces and ., date earlier. • EMIA+. Given t gh no associat Period s.	5 lithics natural, plus 1 bett the quantity, could ions are guarant Preference ?MBA>EMIA+	269 g er looking large d be related to eed, given the Re-using				
(6306) [63 Context: Pottery: Notes: Summary: Waste ?Core Retouched	04] Medium to large sized thick crude loo broken flake which could, but need not Majority likely MBA>EIA and MBA> each other and the context, thoug underlying geology. Lrg thick ang chunk, some /fl removal scars	king pieces and , date earlier. •EMIA+. Given t gh no associat Period s.	5 lithics natural, plus 1 bett the quantity, could ions are guarant Preference ?MBA>EMIA+	269 g er looking large d be related to eed, given the <i>Re-using</i>				
(6306) [63 Context: Pottery: Notes: Summary: Waste ?Core Retouched Adjacent ho	04] Medium to large sized thick crude loo broken flake which could, but need not Majority likely MBA>EIA and MBA> each other and the context, thoug underlying geology. Lrg thick ang chunk, some /fl removal scars	king pieces and ;, date earlier. •EMIA+. Given t gh no associat Period s.	5 lithics natural, plus 1 bett the quantity, could ions are guarant Preference ?MBA>EMIA+ MBA>EIA	269 g er looking large d be related to eed, given the <i>Re-using</i>				
(6306) [63 Context: Pottery: Notes: Summary: Waste ?Core Retouched Adjacent ho	04] Medium to large sized thick crude loo broken flake which could, but need not Majority likely MBA>EIA and MBA> each other and the context, thoug underlying geology. Lrg thick ang chunk, some /fl removal scars llow and side scraper on natural Med sized fl-like nat, 1 'lat' an uneven straig	king pieces and , date earlier. •EMIA+. Given t gh no associat Period s. ght edge and adj ho	5 lithics natural, plus 1 bett the quantity, could ions are guarant <i>Preference</i> ?MBA>EMIA+ MBA>EIA ollow of semi-abr ret.	269 g er looking large d be related to eed, given the <i>Re-using</i>				
(6306) [63 Context: Pottery: Notes: Summary: Waste ?Core Retouched Adjacent ho End scraper	04] Medium to large sized thick crude lood broken flake which could, but need not Majority likely MBA>EIA and MBA> each other and the context, thoug underlying geology. Lrg thick ang chunk, some /fl removal scars llow and side scraper on natural Med sized fl-like nat, 1 'lat' an uneven straig	king pieces and ;, date earlier. •EMIA+. Given t gh no associat Period s. s. ght edge and adj he	5 lithics natural, plus 1 bett the quantity, could ions are guarant <i>Preference</i> ?MBA>EMIA+ MBA>EIA ollow of semi-abr ret. MBA>EMIA+	269 g er looking large d be related to eed, given the Re-using				
(6306) [63 Context: Pottery: Notes: Summary: Waste ?Core Retouched Adjacent ho End scraper	04] Medium to large sized thick crude loo broken flake which could, but need not Majority likely MBA>EIA and MBA> each other and the context, thoug underlying geology. Lrg thick ang chunk, some /fl removal scars llow and side scraper on natural Med sized fl-like nat, 1 'lat' an uneven straig Thick fl, broad steep cortxd dist end 2 shor	king pieces and c, date earlier. •EMIA+. Given t gh no associat Period s. ght edge and adj he t straight areas of	5 lithics natural, plus 1 bett the quantity, could ions are guarant Preference ?MBA>EMIA+ MBA>EIA ollow of semi-abr ret. MBA>EMIA+	269 g er looking large d be related to eed, given the Re-using				
(6306) [63 Context: Pottery: Notes: Summary: Waste ?Core Retouched Adjacent ho End scraper ?Borer	04] Medium to large sized thick crude lood broken flake which could, but need not Majority likely MBA>EIA and MBA> each other and the context, thoug underlying geology. Lrg thick ang chunk, some /fl removal scars llow and side scraper on natural Med sized fl-like nat, 1 'lat' an uneven straig Thick fl, broad steep cortxd dist end 2 shore	king pieces and , date earlier. •EMIA+. Given t gh no associat Period s. ght edge and adj he t straight areas of	5 lithics natural, plus 1 bett the quantity, could ions are guarant Preference ?MBA>EMIA+ ollow of semi-abr ret. MBA>EIA ollow of semi-abr ret. MBA>EIA dir abr ret. MBA>EIA	269 g er looking large d be related to eed, given the Re-using				
(6306) [63 Context: Pottery: Notes: Summary: Waste ?Core Retouched Adjacent ho End scraper ?Borer	04] Medium to large sized thick crude loo broken flake which could, but need not Majority likely MBA>EIA and MBA> each other and the context, thoug underlying geology. Lrg thick ang chunk, some /fl removal scars llow and side scraper on natural Med sized fl-like nat, 1 'lat' an uneven straig Thick fl, broad steep cortxd dist end 2 shor Lrg thick ang nat, 1 triang sec pointed corr uneven ret.	king pieces and , date earlier. •EMIA+. Given t gh no associat <i>Period</i> s. ght edge and adj he t straight areas of the ner trimmed to a r	5 lithics natural, plus 1 bett the quantity, could ions are guarant Preference ?MBA>EMIA+ ollow of semi-abr ret. MBA>EIA ollow of semi-abr ret. MBA>EIA arrower thick blunt	269 g er looking large d be related to eed, given the <i>Re-using</i> point by semi-abr				
(6306) [63 Context: Pottery: Notes: Summary: Waste ?Core Retouched Adjacent ho End scraper ?Borer	04] Medium to large sized thick crude lood broken flake which could, but need not Majority likely MBA>EIA and MBA> each other and the context, thoug underlying geology. Lrg thick ang chunk, some /fl removal scars llow and side scraper on natural Med sized fl-like nat, 1 'lat' an uneven straig Thick fl, broad steep cortxd dist end 2 short Lrg thick ang nat, 1 triang sec pointed corr uneven ret.	king pieces and , date earlier. •EMIA+. Given t gh no associat Period s. ght edge and adj he t straight areas of the ner trimmed to a r	5 lithics natural, plus 1 bett the quantity, could ions are guarant Preference ?MBA>EMIA+ ollow of semi-abr ret. MBA>EIA ollow of semi-abr ret. MBA>EIA harrower thick blunt	269 g er looking large d be related to eed, given the <i>Re-using</i> point by semi-abr				
(6306) [63 Context: Pottery: Notes: Summary: Summary: Waste ?Core Retouched Adjacent ho End scraper ?Borer ?Utilised Flake fragm	04] Medium to large sized thick crude lood broken flake which could, but need not Majority likely MBA>EIA and MBA> each other and the context, thoug underlying geology. Lrg thick ang chunk, some /fl removal scars llow and side scraper on natural Med sized fl-like nat, 1 'lat' an uneven straig Thick fl, broad steep cortxd dist end 2 short Lrg thick ang nat, 1 triang sec pointed corruneven ret. ent	king pieces and , date earlier. •EMIA+. Given t gh no associat Period s. ght edge and adj he t straight areas of the ner trimmed to a r	5 lithics natural, plus 1 bett the quantity, could ions are guarant Preference ?MBA>EMIA+ ollow of semi-abr ret. MBA>EMIA+ dir abr ret. MBA>EIA oarrower thick blunt	269 g er looking large d be related to eed, given the Re-using point by semi-abr				
(6306) [63 Context: Pottery: Notes: Summary: Summary: Waste ?Core ?Core Retouched Adjacent ho End scraper ?Borer ?Utilised Flake fragm	04] Medium to large sized thick crude lood broken flake which could, but need not Majority likely MBA>EIA and MBA> each other and the context, thoug underlying geology. Lrg thick ang chunk, some /fl removal scars llow and side scraper on natural Med sized fl-like nat, 1 'lat' an uneven straig Thick fl, broad steep cortxd dist end 2 short Lrg thick ang nat, 1 triang sec pointed corruneven ret. ent Lrg broad medial/dist frag from a lrg broad other lat abr chips along length.	king pieces and , date earlier. •EMIA+. Given t gh no associat Period s. ght edge and adj he t straight areas of the ner trimmed to a r	5 lithics natural, plus 1 bett the quantity, could ions are guarant Preference ?MBA>EMIA+ ollow of semi-abr ret. MBA>EIA ollow of semi-abr ret. MBA>EIA arrower thick blunt end truncated by dir	269 g er looking large d be related to eed, given the Re-using point by semi-abr				
(6306) [63 Context: Pottery: Notes: Summary: Waste ?Core ?Core ?Core ?Core ?End scraper ?Borer ?Borer	04] Medium to large sized thick crude loop broken flake which could, but need not Majority likely MBA>EIA and MBA> each other and the context, thoug underlying geology. Lrg thick ang chunk, some /fl removal scars llow and side scraper on natural Med sized fl-like nat, 1 'lat' an uneven straig Thick fl, broad steep cortxd dist end 2 shor Lrg thick ang nat, 1 triang sec pointed corn uneven ret. ent Lrg broad medial/dist frag from a lrg broad other lat abr chips along length.	king pieces and c, date earlier. •EMIA+. Given t gh no associat Period s. ght edge and adj ho t straight areas of mer trimmed to a r	5 lithics natural, plus 1 bett the quantity, could ions are guarant Preference ?MBA>EMIA+ ollow of semi-abr ret. MBA>EIA ollow of semi-abr ret. MBA>EIA arrower thick blunt end truncated by dir	269 g er looking large d be related to eed, given the Re-using point by semi-abr scars, 1 cortxd lat,				

*See TP.46A 0.76 m.

1.6. Contexts with notable contents

Context	Quantity	Description	Relationship to context
TP.46A 1.45 m	1	Blade, rare in assemblage, M>BK/?N>BK; re-used?	Unclear.
(4601)	1	'Y'-shaped core tool, N>EIA/?N>EBA/??EN.	Residual if N>EBA.
(4605) [4604]	1	Pick/axe (sole recovery in context), M.	Presumably residual.
(4802) TP A	1	Single platform flake/blade core, M>EN/?EN	Likely residual.
(4902) T.49 B	1	Opposed platform blade core, likely M.	Residual.

Notable that all these are occurring in similar numbered contexts and perhaps in relatively close proximity.

1.7. Comments

Raw materials

All this material was made using flint. Prominent amongst the remnant cortexes were examples of dirty looking rough buff types. A few examples of thin dark grey-black or greeny grey-black cortxes were noted, along with some smooth strong white cortexes. Much of the raw material was of average quality at best, though some better quality flint was also present, the matrices of these often of mixed black and grey flint, with few cherty inclusions or flaws.

It might be presumed that there was little if any flint raw material available in the brickearth type deposits that formed the prime underlying geology on this site and perhaps also in the immediate vicinity too. The understandable accidental recovery of some natural flint alongside the worked pieces does offer a view of the raw material that was available locally and a sample of these have been retained for future comparative study. The nature of the raw material that was available in the geological deposits present on site and locally is currently unknown however and, as part of any future work at this site, it would be useful if samples of the raw material that does occur in the various geologies and any ancient subsoils present could be obtained and submitted alongside any further flintwork that is recovered. Given the likely Later Prehistoric date of the majority of the flintwork present, it would be presumed that the raw materials that were used during that time had been gathered as close to their place of use as was possible. The Earlier Prehistoric flintwork may well have employed better quality raw material that was either carefully selected from the resource available locally, or obtained from slightly further afield, perhaps in areas of chalk geology.

Context	Quantity	Weight	Notes	Pottery present
(2508) [2506]	5	92 g	2 small nodules and 3 small fragments, mostly	
			fired patchy white.	
TP.46A	1	3	Small angular fragment.	
1.1-1.4 m				
Totals	6	95 g		

2. Catalogue of burnt flint 'potboilers'

This material was weighed and reviewed unwashed and then discarded.

3. Bibliography

Butler C. 2005. Prehistoric Flintwork. Tempus.

Appendix VI

Analysis of the iron working debris (by P. Cichy)

Introduction

An ironworking waste was discovered in Area 2A during the archaeological evaluation on Land west of Wises Lane, Sittingbourne. Collected material from Trenches 63, 64 and 91 (565g) derived from the exposed features and trackway surface and was subjected to visual, optical-microscopic and magnetic analysis, followed by the division of the assemblage into sub-categories based on the specific properties of the material.

The presence of *in-situ* iron-slag is always a reliable indicator of on-site or nearby industrial activity, including iron smithing, and provides a valuable source of information about the kind of ore used, the furnace type and the type of technology implemented during the iron-smelting process.

The chemical, geological and technological background

Obtaining the required metal from the raw ore comprises several stages of production, during which raw iron ore is roasted and processed into metallic iron in the form of spongy lumps, followed by primary smithing, which consolidates the bloom into more dense and solid iron billets. The most common source of iron ore in antiquity was ironstone, a ferruginous sedimentary rock formed either by chemical replacement of the elements or by the direct deposition of ferruginous sediments (the latter formed as a result of the precipitation of iron compounds from solution). The ironstone consists either of oxides such as hematite, limonite and magnetite, carbonates such as siderite or silicates such as chamosite, and occur in a variety of forms, such as siderite nodules, saprolite (laterite) and ooidal ironstone. These occur as veined or interbedded deposits or as nodules, along with chert within other deposits such as sandstone, mudstone or clays.

The extraction of ironstone during the Late Iron Age/ Early Roman Period was probably carried out in the local area for the most from sandstone quarries, where exposed layers of Ragstone and Bargatestone were interbedded with veined bands of mostly oolitic ironstones. Another extraction method was by excavation from oval or linear pits in clay deposits to retrieve interbedded ferruginous nodules. Following extraction, iron-bearing material was roasted and crushed, roasting being a metallurgical process in which gas-to-solid reactions at elevated temperature are achieved with the objective of purifying the metal components. The iron ore was placed in a suitable open fire pit and heated in the presence of air, causing micro-fractures in the ore and the removal of sulphur, moisture, carbon dioxide and arsenic. This process also exposed the ore to atmospheric oxygen, which is the main oxidizing agent for the reaction where ferrous oxide (*wüstite*) is oxidized to ferric oxide. In the case of carbonate or sulphide ores, the roasting process removes the unwanted carbon or sulphur, leaving an iron oxide that can be directly reduced inside a smelting furnace shaft.

During the roasting process it was of critical importance to roast the ore sufficiently to achieve an iron content of at least fifty-seven per cent, with the silica (SiO_2) content not exceeding 17.5 per cent. If the ore was not properly roasted and still contained too much silica the smelting process resulted in large quantities of slag being formed at the expense of the required metal; for example: if ore was inadequately roasted, resulting in fifty-five percent iron and twenty percent SiO₂, the yield of metallic iron would be nil. In other cases, where iron-rich ore was roasted to the required temperature, the result would be sixty-five per cent iron to 8.6 per cent SiO₂, and the final result of the smelting process (at least theoretically) would be over sixty-two percent iron within the ensuing bloom.

Following the roasting process, a smelting furnace, usually in the form of a chimney-like shaft with a basal chamber accessed by an opening, was charged with starter fuel, ignited and preheated to the desired temperature, then fed with a mixture of crushed roasted ore and charcoal.

During the main smelting process carbon monoxide was produced, mostly in the upper part of the furnace shaft. This was as a result of incomplete combustion because of the limited amount of available oxygen. When the temperature eventually reached in excess of 650° C

(ideally about 800°C), a reduction reaction would occur between the crushed roasted ore and the carbon monoxide. Carbon monoxide is a highly reductive agent and as a first stage it detached an oxygen atom from each molecule of ferric oxide (Fe₂O₃), reducing it to iron monoxide (FeO, also known as *wüstite*). In the second step the carbon monoxide further reduced the iron monoxide iron (FeO + CO \rightarrow Fe + CO₂). Another important reaction occurring in the furnace shaft was the combining of two molecules of iron monoxide (FeO) with one of silica dioxide (SiO₂), resulting in the creation of fayalite (Fe₂SiO₄), which is the main compound of the unwanted slag. Fayalite, which has a melting point of about 1173°C, attracts and absorbs other impurities from the bloom, which can therefore be removed by liquidation. Metallic iron formed in the furnace in the above-described process at about 1250°C but would melt at 1538°C (*Schrüfer-Kolb 2004, 7*), when it would not be in the required, workable form of spongy and porous iron bloom. It was therefore of paramount importance to maintain temperatures between those values, which would enable the impurities to melt away in the form of slag and leave usable, retrievable iron bloom within the furnace chamber.

The smelting process was followed by primary smithing, during which a piece of iron bloom was re-heated until it became malleable. It was then beaten, transforming a porous, spongy lump into a solid iron billet. The beating impacts carbon particles into the iron in a process called carburisation, which prevents it being brittle. The smithing process also produces slag, in this case in a very dense and magnetic form, usually with very small charcoal imprints (*B. Girbal 2013, 100*).

Methodology

The sampled material (total weight 565g after being washed and dried) was split into subgroups on the basis of the particular characteristics of the iron slag. As a first stage it was necessary to separate the iron-slag from the non iron-slag materials such as tile, scorched clay furnace lining fragments and ore. The second step was to determine which iron-slag fragments were ferromagnetic and to separate those from the non-magnetic examples. The non-magnetic examples were divided into sub-categories (tapping slag, shaped slag and furnace cakes), the remainder (mostly small, well-weathered fragments) were categorised as non-diagnostic. Fragments categorised as magnetic were examined through magnifiers with degrees of magnification ranging from 2x to 10x, followed by microscopic examination at 100x magnification. The other groups were examined in the same way, although only the more diagnostically promising examples were examined at 100x magnification. The fragments of iron ore were also visually examined visually and tested for magnetism, followed by sub-sampling of small fragments. These were roasted using an open-flame propane burner and then gradually cooled to room temperature, when they were reexamined visually under microscope (mag. 100x), followed by final check on their ferromagnetic properties. Finally each group was then weighed and catalogued, with representative samples being photographed.

The summary results

The majority (fifty two per cent) of the sampled material was classified as furnace cakes, this group comprising solid and amorphous furnace iron-slag fragments that had solidified *in-situ* in the 'slag-pit' at the base of the furnace shaft. This represents strong evidence that a non-tapping bloomery technique using 'shaft-type' furnaces was employed on-site or in close vicinity.

The other significant group comprised about thirty nine per cent of dense, magnetic smithing slag, this providing reliable evidence for smithing activity having been carried out on site or in very close vicinity.

The other small and weathered fragments (five per cent) were classified as non-diagnostic due to the lack of diagnostic features. Vitrified furnace lining made up about four per cent of the assemblage,

Context	Tap slag	Furnace cakes solid and amorphous	Furnace shaped slag	Smithing	Ore	Non- diagnostic	CBM tiles	Lining/ vitrified	TOTAL
6311	-	-	-	44g	-	-	-	-	44g
6410	-	-	-	154g	-	-	-	-	154g
9105	-	228g	-	-	-	29g	-	21g	278g
9106	-	65g	-	20g	-	-	-	4g	89g
TOTAL	0	293g	0	218g	0	29g	0	25g	565g
	-	52%	-	39%	-	5%	-	4%	

Table 1. Showing summary results of the iron-working waste analysis.

Tap slag

There was no tapping slag identified within this assemblage

Furnace slag cakes

This type of slag was formed at the base of the furnace shaft and was once molten, having solidified *in-situ* into solid, usually quite amorphous iron-slag cakes. These comprised about 52% (293g) of the assemblage. The majority of the fragments were dense and porous. All the fragments appeared to have been deliberately broken down into smaller pieces and it seems that the people working on this site were routinely crushing large slag lumps into smaller fragments before disposing of them in waste pits. However, even as fragments, they are still a valuable source of information.

The shaped slag

There was no shaped slag identified within this assemblage

Smithing slag

This type of slag was formed during the primary and secondary phases of smithing and comprised about thirty nine per cent (218g) of the assemblage. Smithing slag or smithing hearth bottom (SHB) is usually dense and magnetic, circular or oval in plan and convex with infrequent charcoal imprints. It also contains traces of hammerscale fused or embedded on its surface, mostly along the edges. The largest fragment of SHB was recovered from context (6410).



Plate A. Smithing hearth bottom (SHB) from context (9106). Charcoal impressions are clearly visible.



Plate B. Smithing hearth bottom (SHB) from context (6410)



Plate C. Furnace lining retrieved from context (9105)

Conclusions and discussion

A relatively small amount of development-related investigations has previously taken place in the local area, and consequently very little is known of local historic iron production. The analysis of remains of the iron-working site, including the detailed analysis of the industrial waste, has therefore added significantly to our understanding of this industry in its Late Iron Age/ Early Roman manifestation. The discoveries described above have provided reliable evidence for iron production having been carried out with shaft-type furnaces using nontapping technology. This method was probably used beyond the Roman Period. The ironworks are likely located on-site or in the vicinity certainly housed iron-smelting structures and an associated smithy.



Figure 1: Site location





Figure 3: Trench location



Figure 3a: Trench location - Area 2A



Figure 3b: Trench location - Area 2A



Figure 4: Trench location in relation to development



Figure 5: Trench location in relation to geophysical survey interpretation



Looking south west at trench 22



Figure 7: Trench 23

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Looking south at section of the west side of the holloway 2306



Looking south at trench 24

MILIERVEZ DELAS

Looking west at section of the holloway 2410 cutting ditch 2408

Looking south at section of the ditch 2404







Looking north west at test pit at the east end of trench 25



Looking north west at section 7.3 of the test pit



Looking north west at section of the ditch 2506



Figure 9: Trench 25





Looking east at trench 28



Looking south at section of terminus 2804







Looking north east at trench 29



Looking east at section of 2904









Looking west at trench 31



Looking south west at section through gravel 3104



Looking north east at trench 23





Looking south at the section of colluvium overlaying tree throw hole 4604



Figure 14: Trench 46



Looking north at section of test pit 47B







Looking south at section of the ditch 5604



Figure 18: Trench 56, 95 and 96





Looking north west at trench 58



Looking west at section of pit 5806



Looking west at section of ditch 5804



Figure 19: Trench 58







Figure 21: Trench 64




Figure 23: Trench 67



Looking south west at trench 70

Looking south at section of trench 70





Looking north east at section of the ditch 7208









Looking east at trench 91



Looking north west at pit 9104

Looking east at trench 91



Figure 28: Trench 92, 93, and 94











0 0.2 0.4 SCALE 1:20 metres















0 0.2 0. SCALE 1:20 metres