

making sense of heritage

Land off the A45, Little Irchester Northamptonshire

Archaeological Mitigation: Watching Brief Report, With Proposals for Publication



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wessexarchaeology



Archaeological Mitigation: Report on Observation/Investigation, with Proposals for Publication

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Summary

Wessex Archaeology was commissioned by Lark Energy to undertake archaeological mitigation works on land opposite 7 to 11 Claudius Way, Higham Road, Irchester, Northamptonshire (hereafter 'the Site'). The Site is approximately 10.8 ha in size and is centred on National Grid Reference (NGR) 490810 266290.

Previous archaeological field investigations had been undertaken on the Site in relation to the development of a solar photovoltaic farm, comprising a geophysical survey and a trial trench evaluation. These identified a significant concentration of archaeological features in the south-west corner of the Site constituting part of a Late Iron Age–Early Romano-British settlement, possibly of two phases, consisting of a complex of enclosures, possible trackways and related boundaries, a pottery kiln and a possible waterhole.

Subsequently, planning consent for the development was granted subject to an archaeological condition (as advised by the Assistant Archaeological Advisor of Northamptonshire County Council and outlined in a project brief). This was in respect of preservation *in situ* of the significant archaeological remains within the south-west of the Site and the need for further archaeological observation and investigation [a watching brief] on all intrusive groundworks across the remainder of the Site. This also included the requirement for a proposal for analysis to result in publication of the archaeological results of all phases of work relating to the project. This collectively is referred to as a programme of archaeological mitigation.

The watching brief was maintained during intrusive groundworks associated with the construction of the solar photovoltaic farm in February and March 2016, with an additional day visit in April 2016. A small number of archaeological deposits infilling ditches were identified in a single cable trench excavated for CCTV adjacent to the south-western site boundary, in the area of significant archaeology. The groundworks did not impact on these deposits and so no further investigation was undertaken, although a few sherds of Roman pottery were recovered from the surface of some of these deposits.

In total a very small quantity of archaeological finds were recovered from the watching brief. These finds were predominantly unstratified (not in their original depositional context) and, therefore, there is very little to add to the data acquired from the preceding archaeological evaluation. Despite this, the watching brief was successful in corroborating the earlier results by confirming that the limit of the Late Iron Age–Early Romano-British settlement is within the area preserved *in situ*.

In accordance with the condition attached to the planning consent, a statement of potential and proposals in relation to the results from all phases of archaeological investigations associated with the solar photovoltaic farm development is outlined within this report, which will lead to the production of a short article to be submitted to the county journal, *Northamptonshire Archaeology*.



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The archaeological mitigation was commissioned by Lark Energy and Wessex Archaeology is grateful to Rachel Wood in this regard. The assistance and advice of Liz Mordue (Assistant Archaeological Advisor Northamptonshire County Council) who monitored the work is also acknowledged.

The project was managed for Wessex Archaeology by Andy Crockett. The watching brief was undertaken by Andy Swann, Jon Paul Williams, Michael Keech, Hannah Dabil, Jonathan Buttery, Maria Calderon and Alex Cassels. This report was prepared by Gail Wakeham, with contributions by Andy Swann, and the report graphics were prepared by Nancy Dixon. Phil Andrews managed this post-excavation phase of the project.



Archaeological Mitigation: Report on Observation/Investigation, with Proposals for Publication

1 INTRODUCTION

1.1 **Project background**

- 1.1.1 Wessex Archaeology (WA) was commissioned by Lark Energy (the Client) to carry out a programme of archaeological mitigation during the construction of a photovoltaic farm on land opposite 7 to 11 Claudius Way, Higham Road, Irchester, Northamptonshire, centred on National Grid Reference (NGR) 490810 266290 (hereafter 'the Site'; **Figure 1**).
- 1.1.2 Previous archaeological field investigations had been undertaken on the Site in relation to the same development of a solar photovoltaic farm, comprising a geophysical survey and a trial trench evaluation (WA 2015a and b). These had identified a significant concentration of archaeological features in the south-west corner of the Site, constituting part of a settlement of Late Iron Age–Early Romano-British date, possibly of two phases, consisting of a complex of enclosures, possible trackways and related boundaries, a pottery kiln and a possible waterhole.
- 1.1.3 Subsequently, planning consent (WP/15/00200/FUL) for the development was granted by Wellingborough Borough Council subject to an archaeological condition, as advised by the Assistant Archaeological Advisor of Northamptonshire County Council (NCC) and set out in a project brief. This brief outlined the agreed preservation *in situ* of the significant archaeological remains and the need for further archaeological observation and recording [a watching brief] on all intrusive groundworks across the remainder of the Site (NCC 2015). The brief also includes the requirement for a proposal of analysis to result in publication of the archaeological results of all phases of work relating to the project. This collectively is referred to as a programme of archaeological mitigation.
- 1.1.4 In accordance with the above requirement, a Written Scheme of Investigation (WSI) was produced by Wessex Archaeology (WA 2015c), which was submitted to and approved by the Assistant Archaeological Advisor (NCC) prior to the commencement of the watching brief.

1.2 Scope of document

- 1.2.1 This document presents the results of the archaeological observation/investigationwhich monitored intrusive groundworks during the construction of the solar photovoltaic farm.
- 1.2.2 This document also contains a statement of potential and proposals in relation to the results from all phases of archaeological investigations associated with the development, which will lead to the production of a short article for publication.

1.3 Site location, topography and geology

1.3.1 The Site lies to the south of the A45 in Little Irchester, 3 km south-east of Wellingborough, in the county of Northamptonshire. It occupies a mostly level expanse of ground at



approximately 60–65 m above Ordnance Datum (aOD), encompassing a single former arable field bounded to the north by the A45 (Higham Road) and by wooded areas to the east, south and west (**Figure 1**).

- 1.3.2 An industrial estate is located to the north of the A45 (Higham Road), whilst to the south and east of the Site lies Irchester Country Park. Further to the south-east is the village of Irchester and to the west is the village of Little Irchester.
- 1.3.3 The solid geology comprises a complex of interbedded formation, with the following recorded within the Site: Northampton Sand Formation ooidal ironstone; Stamford Member –sandstone and siltstone interbedded; Wellingborough Limestone Member limestone and mudstone interbedded and Blisworth Limestone Formation limestone (BGS 2016).

2 ARCHAEOLOGICAL AND HISTORICAL BACKGROUND

2.1 Introduction

2.1.1 The archaeological and historical setting of the Site is provided below, together with a summary of the results of previous investigations undertaken on the Site by Wessex Archaeology in 2015.

2.2 Archaeological and historical setting

- 2.2.1 There are no designated assets (Scheduled Monuments, Listed Buildings, Conservation Areas, Registered Parks and Gardens and Registered Battlefields) within the Site bounds. However, a grade II Listed Building, Poplar Barn of mid-18th-century date lies adjacent to the Site to the north-east, and a Scheduled Monument lies a little further to the north-east, as described below.
- 2.2.2 The most significant designated asset is the Scheduled Monument (no.1003892) that lies to the north-east of the Site, on the opposite side of the A45. This area, covering approximately 40 ha, is the location of an Iron Age settlement and the Roman town of Irchester, as well as the remains of Chester-on-the-Water, a medieval hamlet. This area has been extensively examined in the past, and geophysical surveys undertaken across the scheduled area have revealed abundant archaeological evidence for multi-period occupation (Northamptonshire Archaeology 2012). Excavations at the Victoria Park industrial estate directly north of the A45 and the Site have also uncovered archaeological remains, indicating that the area of Iron Age and Romano-British settlement is larger than that which is currently scheduled. This makes the archaeological potential of the Site under consideration here very high.
- 2.2.3 Aerial photography had indicated the possible presence of three enclosures and four linear features within the Site. The cropmarks are of a group of enclosures and ditches of uncertain date and function. The majority of the cropmarks are recorded in the south-western corner of the Site, within the settlement area identified by the geophysical survey and evaluation (below; **Figure 1**).
- 2.2.4 Irchester Country Park, to the east and south of the Site, is a former ironstone quarry, and several stone pits are marked on historic maps, with one in the south-east corner of the Site and others in the surrounding area (Ordnance Survey 1886–1888).
- 2.2.5 The Site has been in use as arable fields from at least the 19th century to the present day and has been divided by various boundaries throughout the years.



2.3 Geophysical survey

- 2.3.1 A detailed gradiometer survey of the Site identified anomalies of clear archaeological interest as well as other areas of archaeological potential (WA 2015a).
- 2.3.2 The majority of the certain and possible archaeological features were located in the southwestern part of the survey area and appear to show an area of enclosed settlement (Figure 1). These anomalies represent primarily ditch-like features which were interpreted as evidence for former enclosures or land divisions. The different alignments of the features are thought to indicate several phases of occupation. Associated with these ditch-like features are a number of pit-like anomalies which may provide indirect evidence for the presence of structures.
- 2.3.3 Several trends were also identified in the survey, but due to their weak magnetic response, it is unclear if these represent features of archaeological origin.
- 2.3.4 An area of geological responses and a larger area of increased magnetic response in the southern part of the survey area correspond with the location of a 'stone pit' marked on historic maps, and this been interpreted as historic quarrying. The survey also revealed anomalies indicative of ridge-and-furrow agriculture across the Site, though it was unclear if this pattern of anomalies related to medieval agriculture or possibly ironstone quarrying which has left similar traces elsewhere in the surrounding area.

2.4 Trial trench evaluation

- 2.4.1 The trial trench evaluation (WA 2015b) confirmed the cropmark and geophysical evidence for a dense concentration of archaeological features in the south-west corner of the Site (trenches 3–7; **Figure 1**). The presence of various intersecting ditches and gullies on different alignments is likely to reflect at least two phases of Late Iron Age–Early Romano-British settlement, forming what appears to be a complex of enclosures, possible tracks and related boundaries, and though no certain structural remains were identified, a pottery kiln and a possible waterhole were uncovered. The evaluation defined a clear eastern limit to the settlement, as had been suggested by the preceding geophysical survey.
- 2.4.2 The pottery kiln in trench 5 contained abundant pottery and kiln furniture and provided evidence of the local production of black-coloured ceramics at some point during the 1st century AD. This type of pottery was not recovered from the other trenches but the ceramic assemblages indicate that all of the activity at the Site is also Late Iron Age to early Romano-British in date. The other finds were consistent with a 1st-century AD date, including two copper-alloy brooches, whilst a residual flint assemblage indicated a background level of earlier prehistoric activity in the area.
- 2.4.3 Sheep/goat remains were dominant in the animal bone assemblage, although cattle was also present, and the charred plant remains were also consistent with general settlement waste and related activity in the vicinity. Germinated grain within the assemblage may possibly be indicative of malting as part of the brewing process. The weed seeds were typical of grassland, field margins and arable environments, and the molluscs were consistent with an established open landscape.
- 2.4.4 Post-Roman activity was represented almost entirely by the remains of medieval ridge-andfurrow agriculture which probably once extended across the entire Site. Outside of the remains in the south-west corner of the Site, these were the only other archaeological features that were identified during the evaluation, with the exception of an undated gully in trench 9. The ridge-and-furrow was on a broadly east–west alignment, though there was evidence for a possibly later north–south alignment in the north-east corner. The localised



sandy geology in the south-east corner of the Site has probably masked geophysical evidence for ridge-and-furrow here, and it was also not apparent in the area of dense anomalies in the south-west corner.

3 AIMS

3.1 **Project aims**

3.1.1 As defined in the WSI (WA 2015c), the general aim of the archaeological mitigation is to determine and understand the nature, function and character of an archaeological site in its cultural and environmental setting.

3.2 **Project research objectives**

- 3.2.1 With due regard to available research agenda and guidance (i.e. EH 1991; Taylor 1999; Taylor 2001; Knight *et al* 2012), and in the context of the already known archaeological resource at the Site, the following research objectives can be provisionally identified:
 - Seek to link fabric analyses and the kiln location to establish the degree of independence or link between the pottery industry, and thus better assess supply patterns;
 - Contribute to the regional corpora of Roman pottery and publish the information on this modest production centre; and
 - Assess the extent to which the nucleated roadside settlement may have been founded on Iron Age predecessors.
- 3.2.2 Clearly, the measure of how fully these research objectives can be attained will be predicated on the results of this phase of mitigation, and how they contribute to current understanding of the archaeology of the Site (primarily derived from the evaluation results).

3.3 Mitigation objectives

- 3.3.1 In order to address the project aim and research objectives, the following mitigation objectives are defined:
 - Establish the date, nature and extent of activity or occupation at the Site;
 - Establish the relationship of any remains found to the surrounding contemporary landscapes;
 - Recover artefacts to assist in the development of type series within the region; and
 - Recover palaeo-environmental remains to determine local environmental conditions as an intrinsic part of the investigation.

4 FIELDWORK METHODOLOGY

4.1 Introduction

4.1.1 All works were undertaken in accordance with the methodology set out within the WSI (WA 2015c) and the Project Brief (NCC 2015), and in compliance with the standards outlined in the ClfA's *Standard and guidance for archaeological evaluation* (ClfA 2014a) and ClfA's *Standard and guidance for an archaeological watching brief* (ClfA 2014b) excepting where they are superseded by statements made below.



4.2 Watching brief

- 4.2.1 The watching brief monitored all intrusive construction groundworks associated with the development outside of the area of significant archaeology in the south-west corner of the Site which was preserved *in situ*. This was attained by a re-design of the original development proposals to involve the use of ballast-mounted bases for the photovoltaic panels with the results that no invasive groundwork were needed in this area.
- 4.2.2 The watching brief was undertaken by at least one experienced WA archaeologist subject to the number of site operations being undertaken at any one time. The mechanical excavation was, where possible, undertaken using a toothless ditching bucket and under constant supervision by WA. Machine excavation proceeded to the required construction levels or the top of archaeological levels whichever was the higher. Where necessary and practicable and without causing unreasonable delay to the groundwork programme, groundworks were halted whilst investigations were carried out by WA staff.
- 4.2.3 WA staff investigated archaeological deposits and features by excavation and recording commensurate with the scale of work and using WA's *pro forma* recording system. Where practical, and towards meeting the aims of the watching brief, excavation included sampling of features and deposits in order to determine stratigraphic relationships and to recover artefacts, ecofacts and dating evidence. Recording included written, drawn, and photographic elements as conditions allowed (in line with procedures outlined in Section 4.5 below).
- 4.2.4 When required, arrangements were put in place with the Client in order for the Assistant Archaeological Advisor (NCC) to access the Site to monitor progress of the watching brief.
- 4.2.5 The watching brief was maintained throughout groundwork excavations and was concluded when, in consultation with the Assistant Archaeological Advisor (NCC), it was clear that the potential for archaeological remains to be exposed had been exhausted.

4.3 Recording of archaeological features and deposits

- 4.3.1 All trenches and any exposed archaeological deposits were recorded using WA's *pro forma* recording system.
- 4.3.2 Archaeological features and deposits were surveyed using a Total Station/GPS and related to Ordnance Survey.
- 4.3.3 A complete drawn record of excavated archaeological features and deposits was compiled. This includes both plans and sections, drawn to appropriate scales (1:20 for plans, 1:10 for sections), and with reference to a site grid tied to the Ordnance Survey National Grid. The Ordnance Datum (OD) height of all principal features and levels will be calculated and plans/sections will be annotated with OD heights.
- 4.3.4 A photographic record was maintained during the evaluation using digital cameras equipped with an image sensor of not less than 10 megapixels. Digital images were subject to managed quality control and curation processes which will embed appropriate metadata within the image and ensure long term accessibility of the image set.
- 4.3.5 A unique project code (108021) was allocated, and was used on all records and any recovered artefacts and environmental samples.



4.4 Finds and environmental

- 4.4.1 Appropriate strategies for the recovery, processing and assessment of artefacts and environmental samples were in line those outlined in the WSI (WA 2015c).
- 4.4.2 The treatment of artefacts and environmental samples is in accordance with the ClfA's *Guidance for the Collection, Documentation, Conservation and Research of Archaeological Materials* (ClfA 2014c), United Kingdom Institute for Conservation, Conservation Guidelines no. 2 (UKIC 2001) and *Environmental Archaeology; A Guide to the Theory and Practice of Methods, from Sampling and Recovery to Post-excavation (second edition)* (English Heritage 2011).

5 RESULTS

5.1 Introduction

- 5.1.1 The watching brief monitored intrusive groundworks associated with the construction of the solar photovoltaic farm. Work commenced on the 5th February 2016 and was completed by the 4th March 2016, with the agreement of the Assistant Archaeologist (NCC). This was followed by an additional day's watching brief on 16th April 2016.
- 5.1.2 Over the majority of the Site, the photovoltaic arrays were constructed by driving vertical galvanised steel posts directly into the ground, upon which an angled superstructure was built, and the photovoltaic panels were bolted on. Each array block held between 88 and 96 panels, with a small number (at the ends of certain rows) holding only 48 panels.
- 5.1.3 In the south-west part of the Site where preservation *in situ* had been agreed due to the presence of significant archaeological remains, the watching brief observed that the area was clearly demarcated and that a different construction method was employed to ensure no below-ground impact: polythene sheeting was spread over the ground surface with ballast laid over the top, concrete blocks were positioned over the ballast and a steel superstructure was bolted into position (**Figure 2**: **Plate 1**).
- 5.1.4 The excavations that were archaeologically monitored consisted of footings for three inverter stations (**Plate 2**) and a substation near the compound (**Plate 3**), all to be linked by the permanent roadway, and the excavation of numerous cable trenches running between the inverter stations and the photovoltaic arrays (**Figure 2**). Such trenches were of two types; those to take high power cables, measuring 0.6 m wide and up to 1.2 m deep and those to take smaller cables, measuring 0.4–0.6 m and 0.75 m deep (**Plate 4**).
- 5.1.5 The watching brief also included the monitoring of small-scale excavations including four hand-dug holes for the erection of 'goalposts' (to provide a safe crossing point for machinery beneath overhead power cables), a series of small-diameter boreholes for fencing posts around the site boundary (**Plate 5**) and the monitoring of some geo-technical test pits.
- 5.1.6 Subsequent to the installation of the solar arrays, the watching brief monitored the excavation of a cable trench for CCTV installation adjacent to the south-western perimeter of the Site (**Figure 2** and **3**).
- 5.1.7 Detailed context descriptions are provided in **Appendix 1**. Each area of below-ground works was given a trench number (with corresponding unique context numbers allocated). A total of 76 separate interventions were archaeologically monitored across the Site.



5.2 Soil sequence

- 5.2.1 The soil sequence was broadly similar across the Site. Surface topsoil (approximately 0.25– 0.4 m thick) overlay a reddish brown sandy loam subsoil (approximately 0.2–0.3 m thick), which in turn overlay natural geology.
- 5.2.2 The interface between the subsoil and the natural geology undulated across the Site and within the monitored excavations, the natural being very variable in texture and colour, ranging from reddish brown to yellow to grey clay, with some gravel inclusions and patches or bands of red or yellow sand, to bedrock limestone and clay with shell detritus.

5.3 Results

- 5.3.1 Despite the close watching brief on all sub-surface excavations, the only archaeological features or deposits observed during the watching brief were in relation to the excavation of a cable trench for CCTV installation adjacent to the south-western boundary of the Site, on the western edge of the area of significant archaeology to be preserved *in situ* (**Figure 2**).
- 5.3.2 The cable trench was 200 m long by 0.3 m wide and a number of linear features likely to be ditches were observed within its base (**Figure 3**). The cable trench was a maximum of 0.5 m below the ground surface and although the surface of archaeological deposits were revealed, these were not impacted by the groundworks and therefore the features were effectively preserved *in situ*. A small quantity of pottery was collected from the surface of some of these archaeological deposits and has been dated to the Romano-British period, and this is therefore consistent with the results of the preceding archaeological evaluation which defined a number of ditched enclosures.

6 FINDS AND ENVIRONMENTAL EVIDENCE

6.1 Finds

6.1.1 A very small quantity of finds was recovered, deriving from topsoil and subsoil contexts in four of the 75 trenches monitored, as well as from the surface of exposed archaeological deposits in the CCTV cable trench. **Table 1** lists the finds by context.

Context	Flint	Pottery	Other Finds
10502	1/1		
14301			1 tile
14601			1 shell; 1 brick; 1 bottle glass
17501		1/6	
20004		2/10	
20006		5/74	
20018		2/15	

 Table 1:
 All finds by context (number/weight in grammes)

Pottery

6.1.2 Of the ten sherds recovered, one is Iron Age, and the remaining nine Late Iron Age/Romano-British. All are undiagnostic body sherds, which have been dated on fabric grounds alone.



- 6.1.3 The Iron Age sherd was found in spoil (context **17501**) from topsoil excavated by mechanical boring for fence posts on the western perimeter of the Site. It is in a coarse grog-tempered fabric.
- 6.1.4 The sherds of Romano-British date were all recovered from the surface of archaeological deposits in the trench excavated for CCTV (**Figure 3**). Two sherds from **20004** and five from **20006** are in fine grog-tempered fabrics, probably of Late Iron Age or early Romano-British date. The two sherds from **20018** are in a shelly fabric, which probably falls within a regional tradition of late Romano-British shelly wares found across much of the Midlands.

Other finds

6.1.5 The other finds comprise a fragment of medieval roof tile (context **14301**, topsoil from trench 43), and fragments of modern brick, modern bottle glass and oyster shell (context **14601**, topsoil from trench 46). Both these trenches were excavated for the footings of Inverter 2 (**Figure 2**).

Worked flint

6.1.6 The single piece of flint, from the subsoil in trench 5 (context **10502**), is a blade segment, with possible retouch. It is of likely late Mesolithic or Neolithic date. This trench was excavated for the footings of the Inverter 1 (**Figure 2**).

6.2 Environmental

6.2.1 No archaeological deposits suitable for sampling were recovered during the watching brief.

7 DISCUSSION

- 7.1.1 The only archaeological deposits uncovered during the course of the watching brief were identified in a CCTV cable trench along the south-western boundary of the Site. Although these were not impacted by the groundworks, and therefore were not archaeologically excavated, Romano-British pottery retrieved from the surface of these deposits suggest they are a continuation of those revealed in the prior archaeological evaluation.
- 7.1.2 The archaeological mitigation has been successful in ensuring the preservation *in situ* of significant archaeological remains previously discovered in the south-west corner of the Site and has also indicated that the limits of this Late Iron Age–Early Romano-British settlement appear to be confined to the previously delineated area. The results of the watching brief therefore corroborate the results from the preceding archaeological geophysical survey and trial trench evaluation.

8 STATEMENT OF POTENTIAL AND PROPOSALS

8.1 Introduction

- 8.1.1 The archaeological evaluation report indicated that the remains in the south-west of the Site had the potential to add to the known evidence of Late Iron Age–Early Romano-British settlement, landscape divisions and pottery production within the local area, particularly if a larger dataset resulted from any further mitigation (WA 2015b).
- 8.1.2 The implemented mitigation strategy resulted in this area of significant remains being successfully preserved *in situ*, and the watching brief on the remainder of the Site produced no further archaeological evidence of interest. Therefore the resultant dataset is based solely on that obtained from the evaluation and as a result the potential for further analysis is somewhat limited.



8.2 Archaeological sequence

- 8.2.1 No further analysis of the stratigraphic sequence is required as there is no potential for further clarification or interpretation of the sequence. From the evaluation it is probable that there are at least two phases of Late Iron Age–Early Romano-British settlement activity, but the limited data obtained will not allow a greater understanding than that presented in the evaluation report.
- 8.2.2 The results of the evaluation will be edited for publication and considered in their broader archaeological context, with particular reference to other investigations of similarly dated settlements in the local area.

8.3 Finds

- 8.3.1 There is limited potential due to the small quantity of material, but of particular importance are the finds relating to pottery production. Though small, the assemblage can be compared to other local wares and known kiln sites in order to add to the evidence for local pottery production in this period.
- 8.3.2 The results from the evaluation pottery report will be summarised and will include details of the pottery assemblage (27 sherds/270g) from the kiln feature, in particular information on the fabric and form. This will be accompanied with appropriate photographs of the kiln structure including fire bars (7.5kg of material).
- 8.3.3 Two copper alloy brooches should be submitted for conservation treatment (cleaning and stabilisation), to render them suitable for long-term curation.

8.4 Environmental

8.4.1 Again, because of the limited number and nature of the environmental samples taken there is negligible potential for further analysis. However, the results of the assessment will be edited for inclusion in the publication report.

9 **RESOURCES AND PUBLICATION**

9.1 **Proposed publication**

- 9.1.1 It is proposed that, following the further analyses outlined above, the results of the watching brief will be reported on in the form of a short illustrated article of approximately 3–4 pages in the regional journal, *Northamptonshire Archaeology*.
- 9.1.2 Once this report and the proposals have been approved, the programme for further analysis and likely publication timetable will be confirmed.

9.2 Management structure

- 9.2.1 Wessex Archaeology operates a project management system. The team will be headed by a Post-Excavation Manager who will assume ultimate responsibility for the implementation and execution of the project.
- 9.2.2 The Post-Excavation Manager will ensure that the report meets internal quality standards (section 11).

9.3 Task list

9.3.1 The following Wessex Archaeology staff are scheduled to undertake the work for postexcavation analysis and publication, as outlined below in **Table 2**.



Table 2: Task list

Description	Grade	WA staff	Days
Management and support			
Project management, and editing		Phil	
	PM	Andrews	0.75
QA and report submission		Pippa	
	SPM	Bradley	0.25
Stratigraphy			
Stratigraphic reporting and background research		Gail	
	SPO	Wakeham	2
Finds analysis and reporting		-	
Pottery reporting		Lorraine	
	SPM	Mepham	1
Illustration			-
Illustration of features and finds (including photography)		Graphics	
	PO	office	1.5
Conservation		<u>.</u>	
Clean of 2x copper alloy brooches for long term storage		Lynn	
	PO	Wootton	1
Publication		-	
Project management, and editing		Phil	
	PM	Andrews	0.75
Archiving		-	
Archive preparation and deposition		Jenny	
	PS	Cronin	0.5
Box storage grant (3 boxes)		ext	

10 STORAGE AND CURATION

10.1 Archive preparation

- 10.1.1 The complete project archive, which will include paper records, photographic records, graphics, artefacts, ecofacts and digital data, will be prepared following Northamptonshire archaeological archives standards for the acceptance of excavated archaeological material (Standards Working Party of Northamptonshire Archaeological Archives Working Group 2014), and in general following nationally recommended guidelines (SMA 1995; ClfA 2014b; Brown 2011).
- 10.1.2 All archive elements will be marked with the HER Event UID number **ENN107935**, and a full index will be prepared.
- 10.1.3 The physical archive is presently temporarily held at the offices of Wessex Archaeology in Salisbury under the project codes 108020 and 108021, and comprises the following:
 - 3 cardboard boxes of artefacts & ecofacts, ordered by material type
 - 2 files/document cases of paper records & A3/A4 graphics

10.2 Museum

10.2.1 The county museum for this project is Northampton Museum and Art Gallery. However, it is Wessex Archaeology's understanding that this museum is no longer accepting archives from archaeological investigations. It is anticipated that by the end of 2017 the Northamptonshire Archaeological Resource Centre (NARC) archive deposition service will be available.



- 10.2.2 In the absence of a recipient museum, the archive will be retained at Wessex Archaeology Head Office, Portway House, Old Sarum Park, Salisbury, Wiltshire, SP4 6EB, until the end of 2017 when NARC should be open for archive deposition.
- 10.2.3 When available, deposition of any finds with NARC will only be carried out with the full agreement of the landowner.

10.3 Discard policy

- 10.3.1 WA follows the guidelines set out in *Selection, Retention and Dispersal* (SMA 1993 and 1995) which allows for the discard of selected artefact and ecofact categories which are not considered to warrant any future analysis. Any discard of artefacts will be fully documented in the project archive.
- 10.3.2 The discard of environmental remains and samples follows nationally recommended guidelines (SMA 1993; 1995; English Heritage 2011).

10.4 OASIS

10.4.1 An OASIS online record <u>http://ads.ahds.ac.uk/projects/oasis/</u> will be initiated and key fields completed on Details, Location and Creators Forms. All appropriate parts of the OASIS online form will be completed for submission to the HER (**Appendix 2**). This will include an uploaded .pdf version of the entire report (a paper copy will also be included with the archive).

10.5 Security copy

10.5.1 In line with current best practice (e.g. Brown 2011), on completion of the project a security copy of the written records will be prepared, in the form of a digital PDF/A file. PDF/A is an ISO-standardised version of the Portable Document Format (PDF) designed for the digital preservation of electronic documents through omission of features ill-suited to long-term archiving.

10.6 Copyright

10.6.1 The full copyright of the written/illustrative archive relating to the site will be retained by Wessex Archaeology under the *Copyright, Designs and Patents Act* 1988 with all rights reserved. The museum, however, will be granted an exclusive licence for the use of the archive for educational purposes, including academic research, providing that such use shall be non-profitmaking, and conforms to the *Copyright and Related Rights Regulations* 2003.

11 QUALITY ASSURANCE PROCEDURES

11.1 Quality management system

- 11.1.1 Wessex Archaeology is an ISO 9001 accredited organisation (certificate number FS 606559), confirming the operation of a Quality Management System which complies with the requirements of ISO 9001:2008 covering professional archaeological and heritage advice and services. The award of the ISO 9001 certificate, independently audited by the British Standards Institution (BSI), demonstrates Wessex Archaeology's commitment to providing quality heritage services to our clients. ISO (the International Organisation for Standardisation) is the most recognised standards body in the world, helping to drive excellence and continuous improvement within businesses.
- 11.1.2 Wessex Archaeology operates a Project Management system. Projects are assigned to individual managers who monitor their progress and quality, and control budgets from



inception to completion, in all aspects including Health and Safety etc. At all stages the manager will carefully assess and monitor performance of staff and adherence to objectives, timetables and budgets, while the manager's performance is monitored in turn by the Regional Manager who will ensure that the project meets Wessex Archaeology's quality standards and is adequately programmed and resourced within Wessex Archaeology's portfolio of project commitments. A formal written report is made to the Executive Management Group once a month by the Regional Manager.

11.2 Chartered Institute for Archaeologists (CIfA) Registered Organisation

- 11.2.1 Wessex Archaeology is a Registered Organisation with the ClfA. Wessex Archaeology endorses the ClfA's Code of Conduct (ClfA 2014d) and Regulations for professional conduct (ClfA 2014e).
- 11.2.2 All core staff would be of a standard approved by Wessex Archaeology, be employed in line with the CIfA's Code of Conduct, and be members of the CIfA or a similar appropriate professional body.

12 **REFERENCES**

- ADS 2013 Caring for Digital Data in Archaeology: a guide to good practice, Archaeology Data Service & Digital Antiquity Guides to Good Practice
- British Geological Survey 2016 on-line viewer, <u>http://www.bgs.ac.uk./geoindex/home.html</u> [accessed April 2016]
- Brown, D H 2011 Archaeological archives; a guide to best practice in creation, compilation, transfer and curation, Archaeological Archives Forum (revised edition)
- Chartered Institute for Archaeologists [CIfA] 2014a Standard and guidance for archaeological field evaluation. CIfA, Reading
- ClfA 2014b Standard and guidance for an archaeological watching brief. ClfA, Reading
- CIfA 2014c Standard and guidance for the creation, compilation, transfer and deposition of archaeological archives. CIfA, Reading
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- English Heritage 1991 Exploring Our Past
- English Heritage 2011 Environmental Archaeology; a guide to theory and practice of methods, from sampling and recovery to post-excavation, Swindon, Centre for Archaeology Guidelines (2nd edition)
- Society of Museum Archaeologists [SMA] 1993 Selection, Retention and Dispersal of Archaeological Collections, Society of Museum Archaeologists
- SMA 1995 *Towards an Accessible Archaeological Archive*, Society of Museum Archaeologists



- Standards Working Party of Northamptonshire Archaeological Archives Working Group (NAAWG) 2014 Northamptonshire Archaeological Archives Standard, Northamptonshire County Council
- Taylor, J, 1999 An Archaeological Resource Assessment of Roman Northamptonshire, E Midlands Archaeol Res Framework
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- United Kingdom Institute for Conservation (UKIC) 2001 Guidelines for the Preparation of Excavation Archives for Long-term Storage
- Watkinson, D and Neal, V 1998 *First Aid for Finds: Practical Guide for Archaeologists*, United Kingdom Institute for Conservation of Historic & Artistic Works
- Wessex Archaeology 2015a *Land off the A45,* Little Irchester, Northamptonshire, Detailed Gradiometer Survey Report, unpublished client report
- Wessex Archaeology 2015b Land off the A45, Little Irchester, Northamptonshire, Archaeological Evaluation Report, unpublished client report ref.108020.01
- Wessex Archaeology 2015c Land off the A45, Little Irchester, Northamptonshire, Written Scheme of Investigation for Archaeological Mitigation, unpublished client report ref.108021.01



13 APPENDICES

13.1 Appendix 1: Context summary tables

Trench 1	Trench dimensions: L: 0.45 m, W: 0.45 m, D: 0.80 m			
Context	Туре	Description	Depth (m)	
10101	Topsoil	Mid brown sandy loam with some clay	0-0.15	
10102	Subsoil	Light/mid brown sandy clay with occasional flint	0.15-0.45	
10103	Natural	Yellow/brown clay with little sand. Land drain near the base	0.45-0.80	

Trench 2	Trench dimensions: L: 0.42 m, W: 0.40 m, D: 0.73 m			
Context	Туре	Description	Depth (m)	
10201	Topsoil	Mid brown sandy loam with some clay	0–0.16	
10202	Subsoil	Light/mid brown sandy clay with occasional flint	0.16-0.42	
10203	Natural	Natural. Light brown/yellow clay with some sand	0.42-0.73	

Trench 3	Trench dimensions: L: 0.38 m, W: 0.36 m, D: 0.70 m			
Context	Туре	Description	Depth (m)	
10301	Topsoil	Mid brown sandy loam with clay. Occasional small fragments of stone	0–0.14	
10302	Subsoil	Light/mid brown sandy clay with very occasional fragments of stone	0.14-0.40	
10303	Natural	Natural. Light brown/yellow clay with some sand and occasional flint	0.40-0.68	

Trench 4	Trench dimensions: L: 0.48 m, W: 0.42 m, D: 0.78 m			
Context	Туре	Description	Depth (m)	
10401	Topsoil	Mid brown sandy loam with some clay	0–0.15	
10402	Subsoil	Light/mid brown sandy clay with occasional fragments of stone and flint	0.15-0.41	
10403	Natural	Light brown/yellow clay with occasional sand	0.41-0.78	

Trench 5	Trench dimensions: L: 4.20 m, W: 0.80 m, D: 0.60 m			
Context	Туре	Description	Depth (m)	
10501	Topsoil	Mid brown sandy loam with clay. Very clean. Occasional small flint	0–0.30	
10502	Subsoil	Brown/yellow clay with some sand	0.30-0.45	
10503	Natural	Thick yellow clay with occasional light grey patches	0.45-0.60	



Trench 6	Trench dimensions: L: 4.20 m, W: 0.80 m, D: 0.65 m			
Context	Туре	Description	Depth (m)	
10601	Topsoil	Mid brown clayey/sandy loam with very occasional small pebbles	0–0.25	
10602	Subsoil	Mid/light brown/red sandy clay with very occasional small pebbles and stone	0.25-0.45	
10603	Natural	Mid/light brown clay with very little sand. Occasional stone fragments	0.45-0.65	

Trench 7	Trench dimensions: L: 4.20 m, W: 0.80 m, D: 0.65 m			
Context	Туре	Description	Depth (m)	
10701	Topsoil	Mid brown sandy/clayey loam with some pebbles	0–0.30	
10702	Subsoil	Light/mid brown sandy clay with some lighter patches	0.30-0.45	
10703	Natural	Light brown/yellow clay with. Slightly friable. Patches of light marley material. Few pebbles and occasional stone fragments	0.45-0.65	

Trench 8	Trench dimensions: L: 3.70 m, W: 0.80 m, D: 0.60 m			
Context	Туре	Description	Depth (m)	
10801	Topsoil	Mid brown sandy loam with some clay.	0–0.25	
10802	Subsoil	Light brown sandy clay with some stone fragments	0.25-0.45	
10803	Natural	Very pale grey clay with fragmented stone at the top of the layer	0.45-0.65	

Trench 9	Trench dimensions: L: 3.80 m, W: 0.80 m, D: 0.65 m			
Context	Туре	Description	Depth (m)	
10901	Topsoil	Mid brown sandy loam with clay. Some stone fragments	0–0.25	
10902	Subsoil	Mid/light brown sandy clay with some fragments and larger pieces of stone	0.25-0.40	
10903	Natural	Pale grey clay with quantities of stone and some patches of reddish brown clay	0.40-0.65	

Trench 10	Trench dimensions: L: 6.50 m, W: 0.90 m, D: 0.65 m		
Context	Туре	Description	Depth (m)
11001	Topsoil	Mid brown sandy loam with some clay. Occasional stone fragments	0–0.30
11002	Subsoil	Mid to light brown sandy clay with stone fragments and larger pieces of stone	0.30-0.45
11003	Natural	Pale grey clay with fragmented stone at the top of the layer. Some reddish clay patches	0.45-0.65



Trench 11	Trench dimensions: L: 3.60 m, W: 0.95 m, D: 0.65 m			
Context	Туре	Description	Depth (m)	
11101	Topsoil	Mid brown sandy loam with and clay with occasional small pebbles	0–0.25	
11102	Subsoil	Lighter brown with more clay and less sand and loam. Slightly reddish with less pebbles	0.25-0.40	
11103	Natural	Pale greyish brown silty clay with large quantities of fragmented shell. Dirty white in patches	0.40-0.65	

Trench 12	Trench dimensions: L: 3.65 m, W: 0.36 m, D: 0.70 m			
Context	Туре	Description	Depth (m)	
11201	Topsoil	Mid brown sandy loam and clay with infrequent small pebbles	0–0.25	
11202	Subsoil	Mid to light brown clay and sand. Slightly red in places	0.25-0.45	
11203	Natural	Very pale brown sandy clay and fragmented shell detritus. Some dirty white patches	0.45-0.65	

Trench 13	Trench dimensions: L: 3.65 m, W: 0.95 m, D: 0.65 m		
Context	Туре	Description	Depth (m)
11301	Topsoil	Mid brown sandy loam and clay with very occasional small pebbles	0–0.20
11302	Subsoil	Light brown to red sand and clay with some small pebbles	0.20-0.40
11303	Natural	Very pale brown to yellow sandy clay with abundant fragmented shell detritus. Patches of mid brown to red sandy clay	0.40-0.65

Trench 14	Trench dimensions: L: 10.00 m, W: 0.50 m, D: 0.50 m			
Context	Туре	Description	Depth (m)	
11401	Topsoil	Mid brown to red sandy loam with clay and occasional smal pebbles	0–0.15	
11402	Subsoil	Reddish brown clayey sand with occasional small pebbles	0.15-0.50	
	Natural	Not encountered	0.45	

Trench 15	Trench dimensions: L: 10.00 m, W: 0.60 m, D: 0.60 m			
Context	Туре	Description	Depth (m)	
11501	Topsoil	Mid reddish brown sandy loam with occasional small pebbles	0–0.15	
11502	Subsoil	Reddish brown clay and sand with occasional small pebbles	0.15-0.60	
	Natural	Not encountered	0.60	



Trench 16	Trench dimensions: L: 20.00 m, W: 0.60 m, D: 0.60 m			
Context	Туре	Description	Depth (m)	
11601	Topsoil	Mid reddish brown sandy loam with occasional small pebbles	0–0.15	
11602	Subsoil	Reddish brown sand and clay with occasional small pebbles	0.15-0.60	
11603	Natural	Thick yellowish grey clay with occasional fragmented stone	0.60	

Trench 17	Trench dimensions: L: 20.00 m, W: 0.60 m, D: 0.60 m			
Context	Туре	Description	Depth (m)	
11701	Topsoil	Mid reddish brown sandy loam with some clay and occasional small pebbles	0–0.15	
11702	Subsoil	Reddish brown sandy clay with occasional small pebbles	0.15-0.40	
11703	Natural	Pale dirty yellow friable clay with abundant fragmented shell	0.40-0.60	

Trench 18	Trench dimensions: L: 30.00 m, W: 0.40 m, D: 0.60 m		
Context	Туре	Description	Depth (m)
11801	Topsoil	Mid brown sandy loam loam with very occasional small pebbles and flint fragments	0–0.15
11802	Subsoil	Reddish brown sand with little loam and occasional small pebbles	0.15-0.40
11803	Natural	Light reddish brown sandy clay with areas of dirty yellow and grey clay	0.40-0.60

Trench 19	Trench dimensions: L: 30.00 m, W: 0.40 m, D: 0.60 m			
Context	Туре	Description	Depth (m)	
11901	Topsoil	Mid brown sandy loam with occasional small pebbles	0–0.15	
11902	Subsoil	Light brown sand with some loam and clay, occasional small pebbles and stone fragments	0.15-0.45	
11903	Natural	Thick dirty greyish yellow clay	0.45-0.60	

Trench 20	Trench dimensions: L: 10.00 m, W: 0.50 m, D: 0.60 m			
Context	Туре	Description	Depth (m)	
12001	Topsoil	Mid yellowish brown sandy silt with infrequent sub-angular stone	0–0.21	
12002	Subsoil	Mid reddish brown silty clay	0.21-0.47	
12003	Natural	Compact light yellowish brown silty clay with occasional brown sandy patches	0.47-0.60	



Trench 21	Trench dimensions: L: 30.00 m, W: 0.40 m, D: 0.70 m			
Context	Туре	Description	Depth (m)	
2101	Topsoil	Mid yellowish brown sandy silt with occasional small angular stones	0–0.27	
12102	Subsoil	Mid yellowish brown silty clay	0.27-0.52	
12103	Natural	Compact light yellowish brown silty clay with small brown sandy patches	0.52-0.70	

Trench 22	Trench dimensions: L: 30.00 m, W: 0.40 m, D: 0.60 m			
Context	Туре	Description	Depth (m)	
12201	Topsoil	Mid yellowish brown sandy silt with occasional small angular stones	0–0.25	
12202	Subsoil	Compact mid yellowish red silty clay	0.25-0.43	
12203	Natural	Compact light yellowish brown silty clay	0.43-0.60	

Trench 23	Trench dimensions: L: 30.00 m, W: 0.40 m, D:1.00			
Context	Туре	Description	Depth (m)	
12301	Topsoil	Mid yellowish brown sandy silt with occasional small angular stones	0–0.27	
12302	Subsoil	Mid yellowish brown silty clay	0.15-0.60	
12303	Natural	Compact light yellowish brown silty clay with small brown sandy patches	0.60	

Trench 24	Trench dimensions: L: c.40.00 m, W: 0.40 m, D: 0.60 m			
Context	Туре	Description	Depth (m)	
12401	Topsoil	Moderately compact yellowish brown sandy silt	0–0.20	
12402	Subsoil	Compact mid brownish red silty clay	0.20-0.54	
12403	Natural	Compact light yellowish grey silty sand with small fragments of stone	0.54-0.60	

Trench 25	Trench dimensions: L: 30.00 m, W: 0.40 m, D: 0.65 m		
Context	Туре	Description	Depth (m)
12501	Topsoil	Moderately compact mid yellowish brown sandy silt with occasional stone fragments	0–0.23
12502	Subsoil	Compact mid brownish red silty clay	0.23-0.51
12503	Natural	Compact light yellowish brown sandy clay with occasional stone fragments	0.51-0.65



Trench 26	Trench dimensions: L: c.25.00 m, W: 0.40 m, D: 0.75 m			
Context	Туре	Description	Depth (m)	
12601	Topsoil	Moderately compact mid yellowish brown sandy silt with occasional stone fragments	0–0.21	
12602	Subsoil	Compact mid brownish red silty clay	0.21-0.43	
12603	Natural	Compact light yellowish brown silty clay with angular fragments of stone	0.43-0.75	

Trench 27	Trench dimensions: L: 100.00+ m, W: 0.40 m, D: 0.72 m			
Context	Туре	Description	Depth (m)	
12701	Topsoil	Moderately compact mid yellowish brown sandy silt with occasional small angular stones	0–0.23	
12702	Subsoil	Compact mid brownish red silty clay	0.23-0.46	
12703	Natural	Moderately compact light yellowish brown silty sand with pieces of fragmented bedrock	0.46-0.72	

Trench 28	Trench dimensions: L: 20.00 m, W: 0.40 m, D: 0.50 m			
Context	Туре	Description	Depth (m)	
12801	Topsoil	Moderately compact mid yellowish brown sandy silt with small fragments of stone	0–0.27	
12802	Subsoil	Compact mid reddish brown clay and silt	0.15-0.60	
	Natural	Not encountered	0.50	

Trench 29	Trench dimensions: L: 20.00 m, W: 0.40 m, D: 0.47 m			
Context	Туре	Description	Depth (m)	
12901	Topsoil	Moderately compact mid yellowish brown sandy silt with fragments of stone	0–0.27	
12902	Subsoil	Mid reddish brown silty clay	0.27-0.47	
	Natural	Not encountered	0.47	

Trench 30	Trench dimensions: L: 20.00 m, W: 0.40 m, D: 0.42 m		
Context	Туре	Description	Depth (m)
13001	Topsoil	Moderately compact mid yellowish brown sandy silt with occasional small angular stones	0–0.24
13002	Subsoil	Compact mid reddish brown silty clay	0.24-0.42
	Natural	Not encountered	



Trench 31	Trench dimensions: L: 10.00 m, W: 0.40 m, D: 0.52 m			
Context	Туре	Description	Depth (m)	
13101	Topsoil	Moderately compact mid yellowish brown sandy silt with occasional small angular stones	0–0.21	
13102	Subsoil	Compact mid reddish brown silty clay	0.21-0.48	
13103	Natural	Moderately compact light yellowish grey sandy silt with occasional fragments of stone	0.60	

Trench 32	Trench dimensions: L: c.60.00 m, W: 0.40 m, D: 0.72 m			
Context	Туре	Description	Depth (m)	
13201	Topsoil	Moderately compact mid yellowish brown sandy silt with occasional small angular stones	0–0.24	
13202	Subsoil	Compact mid reddish brown silty clay	0.24-0.50	
13203	Natural	Moderately compact light yellowish brown silty sand with occasional fregments of green bedrock	0.50-0.72	

Trench 33	Trench dimensions: L: 50.00 m, W: 0.40 m, D: 0.61 m			
Context	Туре	Description	Depth (m)	
13301	Topsoil	Moderately compact mid yellowish brown silty clay with occasional small angular stones	0–0.23	
13302	Subsoil	Compact mid reddish brown sandy silt	0.23-0.49	
13303	Natural	Moderatey compact light yellowish brown silty sand with patches of orange sand and grit	0.49-0.61	

Trench 34	Trench dimensions: L: 55.00 m, W: 0.40 m, D: 0.42 m			
Context	Туре	Description	Depth (m)	
13401	Topsoil	Moderately compact mid yellowish brown silty clay with occasional small angular stones	0–0.21	
13402	Subsoil	Compact mid reddish brown silty sand	0.21-0.42	
	Natural	Not encountered		

Trench 35	Trench dimensions: L: 50.00 m, W: 0.40 m, D: 0.61 m			
Context	Туре	Description	Depth (m)	
13501	Topsoil	Moderately compact mid yellowish brown silty clay with occasional small angular stones	0–0.27	
13502	Subsoil	Compact mid reddish brown sandy silt	0.27-0.50	
13503	Natural	Moderately compact light tellow to grey silty sand with occasional fragments of bedrock	0.50-0.61	



Trench 36	Trench dimensions: L: 30.00 m, W: 0.40 m, D: 0.65 m			
Context	Туре	Description	Depth (m)	
13601	Topsoil	Moderately compact mid yellowish brown silty clay with occasional fragments of stone with occasional small angular stones	0–0.27	
13602	Subsoil	Compact mid reddish brown sandy silt	0.27-0.49	
13603	Natural	Moderately compact light yellowish brown silty sand with occasional fragments of bedrock	0.49-0.65	

Trench 37	Trench dimensions: L: 50.00 m, W: 0.40 m, D: 0.48 m			
Context	Туре	Description	Depth (m)	
13701	Topsoil	Moderately compact mid yellowish brown silty clay with occasional small angular stones	0–0.27	
13702	Subsoil	Compact mid reddish brown sandy silt	0.27-0.48	
	Natural	Not encountered		

Trench 38	Trench dimensions: L: 40.00 m, W: 0.40 m, D: 0.67 m			
Context	Туре	Description	Depth (m)	
13801	Topsoil	Moderately compact mid yellowish brown silty clay with occasional small angular stones	0–0.30	
13802	Subsoil	Compact mid reddish brown silty clay	0.30-0.53	
13803	Natural	Moderately compact light yellowish brown silty sand with occasional flecks of bedrock	0.53-0.67	

Trench 39	Trench dimensions: L: c.100.00 m, W: 0.40 m, D: 0.60 m			
Context	Туре	Description	Depth (m)	
13901	Topsoil	Moderately compact mid yellowish brown sandy silt with occasional small angular stones	0–0.27	
13902	Subsoil	Compact mid reddish brown silty clay	0.27-0.51	
13903	Natural	Not encountered	0.51-0.60	

Trench 40	Trench dimensions: L: 45.00 m, W: 0.50 m, D: 0.75 m			
Context	Туре	Description	Depth (m)	
14001	Topsoil	Moderately compact mid yellowish brown silty clay	0–0.28	
14002	Subsoil	Compact mid reddish brown silty sand	0.28-0.51	
14003	Natural	Moderately compact light yellowish brown silty sand with occasional fragments of bedrock	0.51-0.75	



Trench 41	Trench dimensions: L: 45.00 m, W: 0.40 m, D: 0.62 m			
Context	Туре	Description	Depth (m)	
14101	Topsoil	Moderately compact mid yellowish brown silty clay with occasional small angular stones	0–0.27	
14202	Subsoil	Compact mid reddish brown sandy silt	0.27-0.45	
14203	Natural	Moderately compact light yellowish brown silty sand with occasional fragments of bedrock	0.45-0.62	

Trench 42	Trench dimensions: L: 4.00 m, W: 3.00 m, D: 0.85 m			
Context	Туре	Description	Depth (m)	
14201	Topsoil	Moderately compact mid yellowish brown silty clay with occasional small fragments of stone	0–0.26	
14202	Subsoil	Mid reddish orange sandy silt with occasional fragments of stone	0.26-0.51	
14203	Natural	Moderately compact light yellowish brown silty sand with occasional fragments of bedrock	0.51-0.85	

Trench 43	Trench dimensions: L: 30.00 m, W: 0.50 m, D: 1.10 m			
Context	Туре	Description	Depth (m)	
14301	Topsoil	Dark greyish brown sandy silty loam with occasional pebbles	0–0.40	
14302	Subsoil	Reddish brown sandy silty loam	0.40-0.60	
14303	Natural	Light yellowish brown sandy clay with abundant fragments of bedrock	0.60-1.10	

Trench 44	Trench dimensions: L: 30.00 m, W: 0.80 m, D: 1.00 m			
Context	Туре	Description	Depth (m)	
14401	Topsoil	Dark greyish brown silty loam	0–0.35	
14402	Subsoil	Mid reddish brown sandy silty loam with very rare sub- angular stone	0.35-0.60	
14403	Natural	Light yellowish brown sandy clay with patches of fragmented bedrock	0.60-1.00	

Trench 45	Trench dimensions: L: 30.00 m, W: 0.80 m, D: 1.10 m			
Context	Туре	Description	Depth (m)	
14501	Topsoil	Dark brown silty loam with occasional small pebbles	0–0.24	
14502	Subsoil	Mid reddish brown sandy silty loam	0.24-0.38	
14503	Natural	Light grey silty clay	0.38-1.10	



Trench 46	Trench dimensions: L: 20.00 m, W: 0.80 m, D: 1.10 m			
Context	Туре	Description	Depth (m)	
14601	Topsoil	Dark brown silty clayey loam with occasional small pebbles	0–0.28	
14602	Subsoil	Mid reddish brown sandy silty loam	0.28-0.48	
14603	Natural	Greyish yellow silty clay with abundant fragments of bedrock and exposed natural rock	0.48-1.10	

Trench 47	Trench dimensions: L: c.30.00 m, W: 0.50 m, D: 0.80 m			
Context	Туре	Description	Depth (m)	
14701	Topsoil	Mid brown sandy loam with very occasional small pebbles	0–0.25	
14702	Subsoil	Mid reddish brown sandy loam and clay	0.25-0.49	
14703	Natural	Dirty yellowish grey sandy clay with lighter patches and abundant flecks of stone	0.49-0.80	

Trench 48	Trench dimensions: L: 10.00 m, W: 0.50 m, D: 0.90 m			
Context	Туре	Description	Depth (m)	
14801	Topsoil	Dark to mid brown sandy loam with occasional small pebbles and fragments of stone	0–0.32	
14802	Subsoil	Reddish brown sandy loam with clay	0.32-0.58	
14803	Natural	Pale yellowish brown clay with some sand and patches of grey clay. Occasional fragments of stone	0.58-0.90	

Trench 49	Trench dimensions: L: 10.00 m, W: 0.40 m, D: 0.60 m			
Context	Туре	Description	Depth (m)	
14901	Topsoil	Mid brown to grey sandy loam	0–0.35	
14902	Subsoil	Mid reddish brown sandy loam with some clay	0.35-0.54	
14903	Natural	Dirty yellowish brown sandy clay with patches of blue-grey clay and flecks of stone	0.54-0.62	

Trench 50	Trench dimensions: L: 30.00 m, W: 0.40 m, D: 0.65 m			
Context	Туре	Description	Depth (m)	
15001	Topsoil	Mid brownish red sandy loam with occasional small pebbles and stone fragments	0–0.28	
15002	Subsoil	Mid brownish red sandy loam and clay with occasional flecks of stone	0.28-0.50	
15003	Natural	Pale dirty yellowish brown sandy clay with lighter blue patches and fragmented stone	0.50-0.65	



Trench 51	Trench dimensions: L: 30.00 m, W: 0.60 m, D: 0.80 m			
Context	Туре	Description	Depth (m)	
15101	Topsoil	Mid to dark brown sandy loam with some small pebbles and occasional fragments of stone	0–0.32	
15102	Subsoil	Compact mid reddish brown sandy loam with some clay	0.32-0.48	
15103	Natural	Dirty yellow-brown to grey sandy clay with patches of fragmented stone	0.48-0.80	

Trench 52	Trench dimensions: L: 3.50 m, W: 0.60 m, D: 3.00 m			
Context	Туре	Description	Depth (m)	
15201	Topsoil	Mid brown sandy loam with occasional pebbles	0–0.35	
15202	Subsoil	Mid reddish brown sandy loam with occasional small pebbles	0.35-0.56	
15203	Natural	Initially dark yellow clay with occasional stone, more stone and sand lowere down with abundant fragmented bedrock	0.56-3.00	

Trench 53	Trench dimensions: L: c.20.00 m, W: 0.40 m, D: 0.60 m			
Context	Туре	Description	Depth (m)	
15301	Topsoil	Mid brown sandy loam with occasional small pebbles	0–0.28	
15302	Subsoil	Reddish brown sandy loam with clay and occasional small pebbles	0.28-0.48	
15303	Natural	Thick dirty yellow clay with blue-grey patches and fragments of stone	0.48-0.60	

Trench 54	Trench dimensions: L: 30.00 m, W: 0.40 m, D: 0.65 m			
Context	Туре	Description	Depth (m)	
15401	Topsoil	Mid brownish grey sandy loam with occasional pebbles	0–0.32	
15402	Subsoil	Reddish brown sandy loam with very occasional pebbles and stone fragments	0.32-0.50	
15403	Natural	Yellowish brown clay and sand with patches of pale greyish blue clay and fragmented stone	0.50-0.65	

Trench 55	Trench dimensions: L: 45.00 m, W: 0.50 m, D: 0.75 m		
Context	Туре	Description	Depth (m)
15501	Topsoil	Mid to dark brown sandy loam with occasional small pebbles	0–0.25
15502	Subsoil	Mid reddish brown sandy loam with clay and occasional small pebbles and stone fragments	0.25-0.42
15503	Natural	Dirty pale yellowish brown clay with patches of sand and abundant fragmented stone	0.42-0.65



Trench 56	Trench dimensions: L: 20.00 m, W: 0.40 m, D: 0.65 m			
Context	Туре	Description	Depth (m)	
15601	Topsoil	Mid to dark brown sandy loam with occasional small pebbles and flecks of stone	0–0.25	
15602	Subsoil	Reddish brown sandy loam with clay and occasional small pebbles and stone fragments	0.25-0.42	
15603	Natural	Thick dirty yellow clay and sand with patches of grey sandy clay and fragments of stone	0.42-0.65	

Trench 57	Trench dimensions: L: 30.00 m, W: 0.40 m, D: 0.70 m		
Context	Туре	Description	Depth (m)
15701	Topsoil	Mid brownish grey sandy loam with occasional small pebbles	0–0.25
15702	Subsoil	Reddish brown sandy loam with patches of ginger and frequent fragments of stone and occasional pebbles	0.25-0.45
15703	Natural	Pale greyish-brown clay with sand with occasional areas of fragmented pale sandy clay and abundant fragmented shell	0.45-0.70

Trench 58	Trench dimensions: L: 10.00 m, W: 0.40 m, D: 0.65 m			
Context	Туре	Description	Depth (m)	
15801	Topsoil	Mid brown sandy loam with occasional small pebbles	0–0.25	
15802	Subsoil	Brownish red sandy loam with clay and occasional small pebbles and fragmented stone	0.25-0.46	
15803	Natural	Thick dirty yellowish grey clay with abundant fragments of stone	0.46-0.65	

Trench 59	Trench dimensions: L: 20.00 m, W: 0.40 m, D: 0.65 m			
Context	Туре	Description	Depth (m)	
15901	Topsoil	Mid brown sandy loam with very occasional small pebbles	0–0.28	
15902	Subsoil	Very compact mid reddish brown sandy loam with clay and occasional small pebbles and stone fragments	0.28-0.42	
15903	Natural	Dirty pale yellowish brown sandy clay with abundant fragmented shell detritus	0.42-0.65	

Trench 60	Trench dimensions: L: 20.00 m, W: 0.40 m, D: 0.65 m		
Context	Туре	Description	Depth (m)
16001	Topsoil	Mid brown sandy loam with occasional small pebbles	0–0.20
16002	Subsoil	Mid reddish brown sandy loam with clay and occasional small pebbles and stone fragments	0.20-0.45
16003	Natural	Pale yellow sandy clay with an abundance of fragmented stone and patches of fragmented shell detritus	0.45-0.65



Trench 61	Trench dimensions: L: 30.00 m, W: 0.40 m, D: 0.70 m			
Context	Туре	Description	Depth (m)	
16101	Topsoil	Mid brown sandy loam with occasional small pebbles	0–0.22	
16102	Subsoil	Mid reddish brown sandy loam with clay and occasional small pebbles and stone fragments	0.22-0.30	
16103	Natural	Pale greyish yellow-brown sandy clay with an abundance of fragmented shell detritus. Changes to the south; no shell but frequent stone	0.30-0.70	

Trench 62	Trench dimensions: L: 15.00 m, W: 0.40 m, D: 0.70 m			
Context	Туре	Description	Depth (m)	
16201	Topsoil	Mid to dark brown sandy loam with occasional small pebbles and fragmented stone	0–0.30	
16202	Subsoil	Reddish brown sandy loam with clay and occasional stone fragments	0.30-0.55	
16203	Natural	Pale reddish brown-yellow sandy clay with frequent stone fragments	0.55-0.70	

Trench 63	Trench dimensions: L: 45.00 m, W: 0.40 m, D: 0.68 m			
Context	Туре	Description	Depth (m)	
16301	Topsoil	Mid brown sandy loam with very occasional small pebbles	0–0.25	
16302	Subsoil	Mid reddish brown sandy loam with clay and occasional stone fragments	0.25-0.45	
16303	Natural	Pale dirty yellow sandy clay with abundant stone fragments and patches of fragmented shell	0.45-0.68	

Trench 64	Trench dimensions: L: 30.00 m, W: 0.40 m, D: 0.65 m			
Context	Туре	Description	Depth (m)	
16401	Topsoil	Mid brown sandy loam with occasional small pebbles and stone fragments	0–0.20	
16402	Subsoil	Mid reddish brown sandy loam with clay and occasional small pebbles	0.20-0.45	
16403	Natural	Dirty light greyish yellow sandy clay with an abundance of stone fragments and larger pieces	0.45-0.65	

Trench 65	Trench dimensions: L: 30.00 m, W: 0.40 m, D: 0.60 m			
Context	Туре	Description	Depth (m)	
16501	Topsoil	Medium brown sandy loam with very occasional small pebbles	0–0.18	
16502	Subsoil	Reddish brown sandy loam with occasional stone fragments	0.18-0.32	
16503	Natural	Pale yellowish grey sandy clay with an abundance of fragmented stone	0.32-0.60	



Trench 66	Trench dimensions: L: 30.0 m, W: 0.40 m, D: 0.64 m			
Context	Туре	Description	Depth (m)	
16601	Topsoil	Mid brown sandy loam with occasional small pebbles	0–0.25	
16602	Subsoil	Mid reddish brown sandy loam with clay and occasional stone fragments	0.25-0.42	
16603	Natural	Dirty pale yellow clay with some sand and infrequent fragments of stone	0.42-0.64	

Trench 67	Trench dimensions: L: 30.00 m, W: 0.60 m, D: 1.25 m			
Context	Туре	Description	Depth (m)	
16701	Topsoil	Mid brown sandy loam with very occasional small pebbles and flecks of stone	0–0.25	
16702	Subsoil	Similar to topsoil but slightly redder in colour and rather more small pebbles	0.25-0.42	
16703	Natural	Uniform thick pale greyish yellow clay with very occasional stone fragments and patches of darker sandier clay.	0.42-0.65	

Trench 68	Trench dimensions: L: 30.00 m, W: 0.60 m, D: 1.25 m			
Context	Туре	Description	Depth (m)	
16801	Topsoil	Mid brown sandy loam with occasional small pebbles	0–0.22	
16802	Subsoil	Mid reddish brown sandy loam with clay and frequent small pebbles and stone fragments	0.22-0.45	
16803	Natural	Dirty pale greyish yellow clay with sand and large fragments of stone. Bedrock exposed in areas	0.45-1.25	

Trench 69	Trench dimensions: L: 30.00 m, W: 0.60 m, D: 1.25 m			
Context	Туре	Description	Depth (m)	
16901	Topsoil	Mid to dark brown sandy loam with occasional small pebbles and stone	0–0.22	
16902	Subsoil	Reddish brown sandy loam with clay and more abundant small pebbles and larger pieces of stone	0.22-0.38	
16903	Natural	Pale grey clay with some sand and occasional outcrops of fragmented stone. Sticky clay towards the base	0.38-1.25	

Trench 70	Trench dimensions: L: c.80.00 m, W: 0.80 m, D: 1.10 m			
Context	Туре	Description	Depth (m)	
17001	Topsoil	Mid brown sandy clay	0–0.25	
17002	Subsoil	Orangey brown sandy clay	0.25-0.48	
17003	Natural	Light grey clay	0.48-0.70	
17004	Natural	Light grey sandy clay	0.70-1.10	



Trench 71	Trench dimensions: L: 15.00 m, W: 0.65 m, D: 1.10 m			
Context	Туре	Description	Depth (m)	
17101	Topsoil	Brown clayey silt	0–0.28	
17102	Subsoil	Dark orange sandy clay	0.28-0.87	
17103	Natural	Grey and orange sandy clay	0.87-1.10	
17104	Natural	Orangey cream sandy clay with fragments of stone	0.81-1.10	

Trench 72	Trench dimensions: L: 20.00 m, W: 0.40 m, D: 0.62 m			
Context	Туре	Description	Depth (m)	
17201	Topsoil	Brown clayey silt	0–0.28	
17202	Subsoil	Dark orange sandy clay	0.28-0.62	
17203	Natural	Pale cream clayey sand	0.48-0.62	

Trench 73	Trench dimensions: L: 110.00 m, W: 0.40 m, D: 0.45 m			
Context	Туре	Description	Depth (m)	
17301	Topsoil	Mid greyish brown silty sand	0–0.40	
17302	Natural	Yellow sand	0.40-0.45+	

Trench 74	Trench dimensions: L: 80.00 m, W: 0.40 m, D: 0.45 m		
Context	Туре	Description	Depth (m)
17401	Topsoil	Mid greyish brown silty sand	0–0.35
17402	Subsoil	Mid reddish brown silty sand	0.35-0.45

Trench 75	Trench dimensions: L: 175.00 m, W: 0.30 m, D: 0.60 m			
Context	Туре	Description	Depth (m)	
17501	Topsoil	Mid greyish brown silty sand	0–0.40	
17502	Natural	Yellow sand	0.40-0.60+	

Trench 200	Trench dimensions: L: 200.00 m, W: 0.30 m, D: 0.50 m Cable trench for CCTV along south-west boundary of Site.			
Context	Туре	Description	Depth (m)	
20001	Topsoil	Mid greyish brown sandy loam	0–0.30	
20002	Natural	Mid brownish yellow sandy clay	0.30-0.50+	
20003	Cut	Cut of E-W ditch, 1.5m wide, not excavated	-	
20004	Fill	Dark brownish grey silty clay upper fill of 20003, not excavated, but surface pottery collected	-	
20005	Cut	Cut of E-W ditch, 1.5m wide, not excavated	-	
20006	Fill	Dark brownish grey silty clay upper fill of 20005, not excavated, but surface pottery collected	-	
20007	Cut	Cut of E-W ditch, 0.5m wide, not excavated	-	

Trench	Trench dimensions: L: 200.00 m, W: 0.30 m, D: 0.50 m					
200	Cable trench for	Cable trench for CCTV along south-west boundary of Site.				
Context	Туре	Description	Depth (m)			
20008	Fill	Dark brownish grey silty clay upper fill of 20005, not excavated	-			
20009	Cut	Cut of N-S gully, 0.4m wide, not excavated	-			
20010	Fill	Upper fill of 20009, dark brownish grey silty clay, not excavated	-			
20011	Cut	Cut of E-W gully, 0.25m wide, not excavated	-			
20012	Fill	Upper fill of 20011, dark brownish grey silty clay, not excavated	-			
20013	Cut	Cut of E-W ditch, 1.0m wide, not excavated	-			
20014	Fill	Dark brownish grey silty clay upper fill of 20013, not excavated	-			
20015	Cut	Cut of E-W ditch, 1.5m wide, not excavated	-			
20016	Fill	Dark brownish grey silty clay upper fill of 20015, not excavated	-			
20017	Cut	Cut of E-W ditch, 1.7m wide, not excavated	-			
20018	Fill	Dark brownish grey silty clay upper fill of 20017, not excavated, but surface pottery collected	-			



13.2 Appendix 2: OASIS form



Site location plan showing evaluation and geophysical results





Plan showing area of significant archaeology preserved in situ and layout of cable trenches, inverters and substations monitored during watching brief

		1
		Table of Modules Access Road Inverter & transfromer stations Fence Stock proof fence Substation (DNO) Substation (customer) Storage building Operations unit
		Access gates
		Vegetation CCTV
		Heage
		Welfare - compound area
		String DC AC (HV) cable Main DC cable Main DC trench Main DC ON Table (single) Main DC ON Table (double) Optical fibre STP cable STP cable STP cable Earthing between tables
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Plate 1: View of area of preservation in situ, with above-ground structure for solar array



Plate 2: View of excavated trenches for footings of inverter

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Plate 3: View of excavated area for sub-station



Plate 4: View of excavation of a cable trench

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Plate 5: Working shot of boring of holes for perimeter fence



Plate 6: Detail of representative section of cable trench showing soil sequence

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