

KDK ARCHAEOLOGY LTD

Written Scheme of Investigation for Archaeological Evaluation; Stage 1

10 Benington Road Aston Stevenage Hertfordshire

Derek Watson PhD

February 2024



Site Data

KDK project code:	827/ABR				
OASIS ref:	kdkarcha1-5	22840	Event/Accession no:	ТВС	
County:		Hertfordshire			
Village/Town:		Aston			
Civil Parish:		Aston			
NGR (to 8 figs):		TL 2740 2272			
Present use:		Disused public house and barn			
Planning proposal:		Erection of 6 dwellings. Conversion of barn to create 1, 2 bed dwelling with, access, parking, bin storage, and turning facilities. Alterations to car park and forecourt area.			
Local Planning Authority:		East Herts Council			
Planning application ref/date:		3/22/2706/FUL			
Client:		QH (London Colney) Ltd 57A Altwood Road Maidenhead SL6 4PN			

Quality Check

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1 Introduction

1.1 This Written Scheme of Investigation has been prepared on behalf of QH (London Colney) Ltd as a specification for Archaeological Evaluation at 10 Benington Road, Aston, Stevenage, Hertfordshire. The work, which is part of a requirement of the National Planning Policy Framework (NPPF) and Condition 29 of the Planning Consent, has been defined by the Hertfordshire Historic Environment Team (HHET), on behalf of the Local Planning Authority (LPA), East Herts Council. The relevant planning application reference is 3/22/2706/FUL.

This evaluation forms the first stage of an archaeological assessment of the site, and further stages may be required should significant remains be encountered.

- 1.2 This Written Scheme of Investigation incorporates the requirements set out by Historic England in *Management of Research Projects in the Historic Environment* (2015) and covers:
 - The scope of the project
 - The objectives and methodologies
 - The archaeological and historical context
 - Dissemination of the results
 - Archive deposition
 - Details of permanent and specialist staff
 - The proposed programme of work
 - Relevant additional information, e.g. insurance, copyright etc.
 - Bibliography of professional and academic resources

1.3 *The Site*

Location

The development site is located within the village and civil parish of Aston and the administrative district of East Herts Council at National Grid Reference (NGR) TL 2740 2272 (Fig. 1).

Description

There are two Grade II Listed Buildings within the boundary of the development site, though the disused public house (the Rose and Crown; NHLE: 1295481) is not included in this application. The roughly square development site fronts onto Bennington Road to the south and is bounded on all other sides by private residences and associated gardens (Fig. 2).

The Historic England description of the Grade II (NHLE: 1347957) barn at Rose and Crown Public House (10 metres to north of public house) is as follows:

Barn. Cl7, extended in C19. Timber frame on brick sill, dark weatherboarded (some with edge roll) with steep pitched roof now of black corrugated iron. A tall single bay barn facing W with later rear outshut and lower contemporary building against W side with entrance in W gable, extended to rear in C19 and re-roofed in line with barn. Taller barn has jowled posts, curved braces to tie beam, clasped-purlin roof with collar beam truss with inclined queen-struts. Holes for wattle infill in wall-plate of barn and W building. Pidgeon holes and small porch over gable doors to barn.



Geology and Topography

The sedimentary bedrock is chalk of the Lewes Nodular Chalk and Seaford Chalk Formations, formed between 93.9 and 83.6 million years ago during the Cretaceous period; this is overlain by superficial sand and gravel Glaciofluvial Deposits, dating from the Mid Pleistocene and deposited between 860 and 116 thousand years ago during the Quaternary period. (https://geologyviewer.bgs.ac.uk/). The development site is situated at an approximate elevation of 95m AOD.

Proposed Development

The proposal calls for the erection of 6 dwellings; the conversion of the extant Grade II barn to create 1 and 2-bed dwellings with access, parking, bin storage, and turning facilities; and alterations to the carpark and forecourt area (Fig. 3). The disused public house is not included within this application.





Figure 1: General location (scale 1:25,000)





Figure 2: Site location (scale 1:1250)





Figure 3: Proposed development (scale 1:500) The public house (outlined in blue) is not included within this application



2 Aims and Methods

2.1 *Aims*

The aims of the project are:

- To establish the date, nature and extent of activity or occupation within the development area
- To establish the relationship of any remains found to the surrounding contemporary landscape
- To recover palaeo-environmental remains to determine local environmental conditions.

The site is located within the Aston Conservation Area (EHC 2018) and an Area of Archaeological Significance (no. 29) that includes the historic core of the medieval and later settlement of Aston. The development includes the conversion of a Grade II 17th century barn which is situated 10m north of a 16th century building (later a public house). Additional research aims would, therefore, be as follows (ALGAO East of England, 2021):

- Med (Rural) 09: How can we characterise medieval rural settlement morphology and relationships?
 - P-Med 13: What can archaeology add to our understanding of well-documented periods?

2.2 Standards

The work will conform to the following requirements:

- The relevant sections of the Chartered Institute for Archaeologists' *Standard & Guidance for Archaeological Field Evaluation* (CIFA 2020a)
- The Chartered Institute for Archaeologists' *Code of Conduct* (CIFA 2022)
- Current Historic England guidelines (EH 2008, HE 2015)
- The Association of Local Government Archaeological Officers East of England Region Standards for Field Archaeology in the East of England (ALGAO 2003)
- Data Protection Act 2018

2.3 *Methods*

The methods used will be as follows:

- Stage One: An archaeological field evaluation of the site comprising 3 x 30m x 1.8m trial trenches (with an area of 162m²), plus an appropriate contingency (Fig. 4).
- Stage Two: An appraisal of the results of the evaluation and their significance with regard to the proposed development. This in turn may lead to the definition of a programme of investigation and recording of archaeological remains which will be destroyed by the development. HHET may prepare a Brief for the next phase of investigation that will also cover a programme of post-excavation, analysis and publication
- Stage Three: The implementation of an agreed programme of archaeological investigation and recording based on the Brief

If heritage assets of archaeological interest are identified by the evaluation the implementation of a programme of archaeological investigation shall be secured in accordance with a WSI which will have been submitted and approved by the LPA.



Excavation

The trenches will be machine excavated under close archaeological supervision to the archaeological horizon or the natural geology, whichever is reached sooner. Due regard will be given to current Health and safety guidelines on the maximum depth of excavation. The machine, which will be of a suitable size, will be fitted with a toothless ditching bucket unless a toothed bucket or breaker is required to remove more solid material. The spoil will be scanned for artefacts.

The trenches will be hand cleaned to produce a base plan, which will be available for the first monitoring visit.

Archaeological features and deposits will be excavated by hand. All discrete features will be half sectioned, where safe to do so. At least 50% of each feature should be investigated. At least 10% of each linear feature will be sampled with slots at least 1m wide. Deeply stratified deposits will be investigated according to site conditions, location of deposits etc. and according to a site specific strategy agreed with HHET.

Bulk sampling in order to retrieve organic and environmental material will be undertaken as appropriate and following Historic England guidance (Campbell *et al.* 2011).

The trenches will not be backfilled before they have been inspected by HHET or agreement has otherwise been reached.

Surveying

Surveying will be undertaken using Global Positioning System technology (GPS) and the results presented in CAD format and converted to TIFF or PDF as required. All plans and section drawings will be annotated with relative heights and all plans will be related to the OS National Grid. Digital survey data will be presented in an appropriate CAD format and converted to TIFF or PDF as required.

Planning

Site plans will normally be drawn to a scale of 1:100 or 1:50. Where greater detail is required specific areas or features may be drawn to 1:20 or 1:10. Burials will be drawn at 1:10. Sections will generally be drawn at 1:10, unless the size of the section is more appropriately illustrated at 1:20. Where greater detail is required; for example for complex and/or intercutting features, hachures will be included. Plastic film will be used for manual site drawings.

Recording

Each context will be recorded in either electronic format or on KDK's Context Record Sheet, which details dimensions, shape, fill type and inclusions, artefact content, samples and interpretation. A register of contexts will be maintained, and context records will be cross-referenced to all other records.

Photography

The primary photographic record will be complied using a high specification digital SLR camera (minimum 20 mgp). Metric scales, a photo board and a north arrow will be used in all photographs where appropriate. A cross-referenced photographic register will be maintained on KDK's Photographic Record Sheet.



Finds

All stratified finds will be collected by context and, if of particular significance, individually recorded in 3 dimensions on KDK's Object Record Sheet. Un-stratified finds will only be collected where they contribute significantly to the project objectives or are of particular intrinsic interest. Finds will be processed in accordance with approved industry practices (e.g. ClfA 2020b)

Finds processing, which can take place during or after fieldwork, involves cleaning, marking, packaging, quantification and initial classification. In most cases the conservation of artefacts will take place after processing, but primary conservation of delicate artefacts may be required on site. Radiography may be required to identify some objects. *First Aid for Finds* by Watkinson and Neal (1998) is considered the standard reference for finds recovery, processing and packaging. Provision has been made for finds analysis and conservation in the project estimates.

Environmental

Environmental sampling strategies will be applied as appropriate and according to Historic England guidance (Campbell *et al.* 2011). See Appendix 1 for further details.

If appropriate, environmental samples will be taken from features to enable their date, nature, and condition to be described and analysed. Samples will be taken from the fills of features where organic materials may be preserved, such as pits, ditches and other deposits, especially if waterlogged.

Where there is evidence for industrial activity, macroscopic technological residues (or a sample of them) will be collected by hand. Separate samples (c. 10ml) will be collected for micro-slags (hammer-scale and spherical droplets).

Samples will be taken for scientific dating (such as radiocarbon dating) where, for example, dating by artefacts is insecure or absent and where dating is necessary for the specification for subsequent mitigation strategies (see section on scientific dating below for more information).

Geoarchaeological assessment of buried soils and sediment sequences may also be undertaken if appropriate. This will be done by field inspection by a specialist geoarchaeologist who, following discussion with the Planning Archaeologist, may take samples for laboratory assessment where appropriate.

Deposits will be sampled for the retrieval and assessment of the preservation conditions and potential for analysis of biological remains. The sampling strategy will be developed in collaboration with KDK's consultant specialist. Flotation samples and samples taken for coarsemesh sieving from dry deposits will be processed at the time of the fieldwork if possible, in order to allow a variation of sampling strategies if necessary.

Sampling strategies for wooden structures will follow the methodologies presented in English Heritage's Waterlogged Wood: Guidelines on the recording, sampling, conservation and curation of waterlogged wood (EH 2010).

All samples will be recorded on KDK's Sample Record Sheet, and a register of samples will be maintained. Provision has been made for sampling, analysis and reporting in the project estimates.



Collection and Selection Strategy

A collection and selection strategy, relating to all aspects of the projects created data and found material, will be agreed between the KDK, HHET and the Depositing Museum. This strategy is outlined in Appendix 2.

Scientific Dating

A number of scientific dating techniques are available for scientific dating. Radio-carbon or C14 dating is commonly used to date organic remains including human remains where no other means of dating is available. Archaeomagnetic or thermoluminescence dating may be applied to pottery or ceramic building materials, kiln linings etc. Dendrochronological dating may be possible on certain species of timber where sufficient growth rings have survived. Provision has been made for scientific dating in the project estimates. A site specific strategy will be formulated with specialist guidance from the appropriate HE Regional Science Advisor

Human Remains

An exhumation license from the Ministry of Justice is necessary if human remains are encountered (Section 8.6, below). Under the Human Tissues Act 2004, the Environmental Health Officer must also be notified if the remains are less than 100 years old. Although human remains are generally left *in situ*, if possible, during Archaeological Evaluation, any investigation or removal of remains will be agreed between KDK, the client, HHET and other appropriate authorities and will be undertaken in accordance with current guidelines (McKinley & Roberts 1993, Brickley & McKinley 2004). Any and all human remains will be treated with care and respect.

Security

The security of the archaeological remains, the archive and the site as a whole will be safeguarded as much as possible. The security of individuals on site, whether KDK staff or not, will perforce take precedence.

Outreach

If appropriate and subject to agreement with the client, a public outreach programme will be formulated. This may include:

- Press releases
- Exhibitions
- Public talks/lectures
- Site open days (subject to access and/or Health and Safety considerations)
- Leaflets or brochures

Acknowledgement will be made to the role of the LPA and HHET in facilitating the work, and to the client for funding it.

2.4 *Requirements for the Building Contractor*

- Trenches to be pulled with a toothless ditching bucket
- Trenches to be taken down in spits under archaeological supervision
- Trenches to be excavated to archaeology or natural geology whichever comes first
- Trenches not to be tracked or driven over
- Spoil to be stockpiled at least 1m from the trench edge
- Trenches to be backfilled only when released by KDK



2.5 *Post-excavation work*

The archaeological fieldwork will be followed by a period of post-excavation processing and analysis, which will include the cataloguing and analysis of any finds and samples, and the preparation of the archive for the site report and its subsequent deposition.

Artefacts, biological samples and soils will be assessed for evidence of site and deposit formation processes and taphonomy, and especially for evidence of recent changes that may have been caused by alterations in the site environment. Assessment may include x-radiography of all iron objects, (after initial screening to exclude obviously recent debris), and a selection of non-ferrous artefacts (including all coins). Where necessary, active stabilisation or consolidation will be carried out, to ensure long-term survival of the material, but with due consideration to possible future investigations.

Assessment of any technological residues may be undertaken and where appropriate, samples will be submitted for scientific dating.

All soil samples collected for biological assessment, or sub-samples of them, will be processed in-house before being sent to the specialist(s) to assess the preservation state, density and significance of material retrieved.

Samples collected for geoarchaeological assessment will be processed as deemed necessary by a recognised specialist and appropriate assessment will be undertaken. Where preservation in situ is a viable option, consideration should be given to the possible effects of compression on the physical integrity of the site and to any hydrological impacts of development.

Animal bone assemblages, or sub-samples of them, will be assessed by our in-house or consultant specialist as appropriate.

Assessment of human remains will be based on in situ observation by our in-house specialists.

Artefacts such as pottery, glass, small finds etc, will be assessed by the relevant specialist (see Section 6.2).





Figure 4: Proposed trench plan (scale 1:500)



3 Archaeological and Historical Background

3.1 Aston is a village and civil parish in Hertfordshire that is situated *c*.4.5km east of Stevenage. It is situated on the top of the Beane Valley ridge and has developed historically around the medieval church of St. Mary's (APC 2024). Human activity in the area dates from prehistory, though the origins of the modern village lie in the Saxon period. The toponym means 'East farm/settlement', which is derived from compounding the Old English elements *ēast* (eastern, east) + $t\bar{u}n$ (an enclosure; a farmstead; a village; an estate) (KEPN 2024). The proposed development site is located within the Aston Conservation Area (EHC 2018) and an Area of Archaeological Significance (no. 29) that includes the historic core of the medieval and later settlement of Aston.

This section has been compiled with information from the Hertfordshire County Council Historic Environment Record (HER ref. 178.24). The HER data, with a 750m search radius of the development, is shown in Fig. 5. The HER search area includes 19, predominantly post-medieval, listed buildings (Grade II* = 2; Grade II = 17), and as this development will not impact most their details have either been omitted or abbreviated.

3.2 **Prehistoric** (before 600BC) & Iron Age (600BC - AD43)

The earliest remains listed within the HER search area are an assemblage of Palaeolithic flints (HER 472) comprising a Middle Acheulian flint handaxe, a flake, and a possible broken axe; however, the findspot within Aston parish is unknown. These date from approximately 225,000-200,000 BC. The only other find is a possible 'Neolithic handaxe' roughout (HER 375), found in 1971, around 250m northeast of the development site.

The only Iron Age (IA) remains listed were found at the now demolished Victorian Aston school (HER 13361) situated less than 100 metres to the northwest of the development. The finds comprised Late IA pottery and animal bones found in the school sandpit (HER 476), presumably during its excavation.

These remains indicate some level of activity in the earlier periods, with small-scale, perhaps transient, settlement in the Iron Age. However, undated but possible late Neolithic to earlier Bronze Age round barrows, some with enclosures, ditches and pits, all inferred from cropmarks are situated to the northeast and southeast of the village, potentially evincing significant earlier prehistoric activity in the area (HER 4431-3, 2304, 2501, 2879, 2899, 2970, 4483, 4507, 4025, 4422, 17107-8).

3.3 **Roman** (AD43 - c.450)

It has been suggested that there was some form of settlement during this period (EHC 2018: 7). However, the only evidence is the discovery of a Roman coin of Diocletian (Emperor 284-305; HER 378) in 1938 about 320m to the northeast, and a Roman dodecahedron (12-sided object; HER 381) that may have been some form of measuring gauge, found *c*.260m southeast.

3.4 **Saxon** (c.450 - 1066)

During the reign of Edward the Confessor, the manor was the freehold of three men, and though their names are unknown, they were vassals of Stigend, Archbishop of Canterbury (AHLH 2019).

No remains from this period are listed in the HER search area.



3.5 *Medieval* (1066 - 1500)

At the time of the Domesday Survey 1086, approximately 25 families lived in '*Estone*' as Aston Village (HER 2653) was then named (AHLH 2019; EHC 2018: 7; Page 1912). This small community included a priest, which indicates the presence of a church predating the present Grade II* listed Church of St Mary the Virgin on Broadwater Lane, as the extant structure was built about 1230 (NHLE: 1101433; HER 4352). No further remains from this period are listed in the HER search area.

King William II gave land including the Manor of Estone to his ruthlessly ambitious half-brother Odo, Bishop of Bayeux (AHLH 2019; EHC 2018: 7; Page 1912). Eventually, his estates including Estone reverted to the crown. The manor remained in royal possession until 1121 when King Henry I presented the land in dower to his second wife, eighteen year old Adeliza. In 1135 the King died. On the first anniversary of his death, Adeliza visited Reading Abbey, which had been founded by Henry in 1121, and granted the abbot and monks various lands including Easton Manor. Easton was under monastic control until the dissolution of the monasteries (1536-39) when King Henry VIII proclaimed himself Supreme Head of the Church. The Abbot of Reading and two of his clerks were publicly brutally murdered for refusing to surrender the Abbey.

3.6 **Post-medieval** (1500 - 1900) & **Modern** (1900 - present)

The enclosure of the medieval open fields took place in 1858, though even by 1881 the village remained small, with much the same plan as in 1840. In addition to the predominantly agriculturally based economy, other commercial activities listed in Kelly's at this time were a blacksmith, shoemakers (2), beer retailers (3), a wheelwright, a miller, a baker, shopkeepers (2), and two public Houses: The Rose and Crown and The Boot (EHC 2018: 8).

The 1839 parish tithe map shows the Grade II 16th century Rose and Crown (then still a house), and its yard and outbuildings, gardens and orchards, with the extant 17th century Grade II barn at the site, the surviving part of a larger building shown on the tithe map.

The Historic England description of the Grade II listed Rose and Crown public house is as follows (NHLE: 1295481):

House, now a public house. C16 E end, Cl7 the remainder, renovated by brewers c1950. Timber frame on low stucco plinth, roughcast at rear, weatherboarded at ends, front roughcast over red brick facing to heads of ground floor windows. A 2-storeys, 3-cell, central chimney plan house facing S. Single storey weatherboarded stable at W end and red brick extension at E end and rear. Central chimney in rear slope a third from W (top rebuilt). 4 divisions to front with 3 windows and pub name after LH window. 2 rectangular bay windows with 4-lights each, central 4-light window flanked by 2 battended doors under moulded flat hoods on heavy brackets. Exposed timbers inside with heavy roughly dressed joists in E part with deeply chamfered beam and expanded ends to side timbers. Chamfered and ogee stops to axial beam and joists in middle room (hall) with fireplace altered. 8- panel CI7 door with hinges in rear wall at NE corner.

The Rose & Crown PH was closed in 2015 (APC 2024).

The barn at Rose and Crown Public House Grade II (NHLE: 1347957) is situated 10 metres north of the now-defunct public house. The 1839 tithe map shows the Rose and Crown facing Benington Road, with a building with a larger footprint to the north and a range set at right angle to the road at the western boundary of the site (Lamb 2023). The building to the north must have been the larger barn before it was reduced in size and only partially remains today



(i.e. the Grade II listed barn). The land is divided into three parts, a small plot to the east of the pub, a larger yard between the pub and the building to the north and beyond that a long open parcel of land. The tithe apportionment describes the plot of land assigned to the Rose and Crown, comprising a yard, outbuildings, gardens, and orchards. Historically, the collection of buildings along with the long open field, described as pastureland, would have formed a homestead.

The nearest other listed buildings are the 17^{th} century Beehive Cottage (Grade II; NHLE: 1295484 to immediate northeast; the $16^{th} - 17^{th}$ century Aston Park Farmhouse (Grade II, NHLE: 1101396) to the south, and the nearby granary (Grade II NHLE: 1101397; HER 17705); the 17^{th} century or earlier 41, Benington Road (Grade II, NHLE: 1101432) to the east; the post-medieval 43-45 Benington Road (Grade II*, NHLE: 1175062; HER 15747); the 18^{th} century smithy with a 19^{th} century house, 24 Benington Road (Grade II, NHLE: 1101431; HER 17707); and the 17^{th} century The Boot Public House on New Park Lane (Grade II, NHLE: 1295489; HER 17708).





Figure 5: HER data plan (scale as shown)



4 Reporting

- 4.1 A report will be prepared, generally within 8 weeks of the completion of the fieldwork, which will include:
 - A concise non-technical summary of the results
 - The objectives of the project
 - The methodologies used
 - The circumstances and date at which it was undertaken
 - The identity of the organisation and individuals carrying out the work (in particular the names of the project director, site supervisor and any specialists), in line with GDPR requirements.
 - A summary of the history and archaeology of the site and its context
 - A written account of the results of the project with appropriate supporting illustrations
 - A conclusion, summarising the results and examining their significance
 - Statement of confidence rating
 - References
 - An index to and the proposed location of the archive
 - Appendices as appropriate
 - An HER Summary Sheet
- 4.2 Electronic and/or paper copies of the report will be provided for the client, HHET and the HER as required.
- 4.3 Interim reports on the project will be submitted to any relevant regional and county journals (e.g. *Hertfordshire Archaeology and History*), and to any relevant specialist journals (e.g. *Industrial Archaeology Review, Journal of the Historic Farm Buildings Group*), within one year of the project's completion.
- 4.4 The project has been registered with the Archaeology Data Service, which will allow an OASIS summary form and the report to be submitted once it has been approved.
- 4.5 Where the archaeological remains revealed require sufficient further analysis for a detailed academic report, a post-excavation strategy will be agreed between KDK and HHET. This additional programme of work will follow guidelines established by Historic England (2015), consisting of successive stages of archive assessment, analysis, research, report preparation and publication.



5 Archive

- 5.1 The project archive consists of the electronic and paper records, photographs, artefacts and environmental samples. On occasion associated records, photographs or finds are also acquired. It is essential that this primary information is stored in a suitable environment to allow it to be studied by anyone with an interest to do so.
- 5.2 During the course of the project the client will be asked to sign a Transfer of Title form to allow any artefacts found during the excavation to be deposited as part of the full archive with the local museum
- 5.3 Hertford Museum has been contacted to make preliminary deposition arrangements. On completion of the project, the archive will be prepared for long term storage in accordance with guidelines prepared by the CIFA (CIFA 2020c), the UK Institute of Conservation (Walker 1990), the Museums and Galleries Commission (Paine 1992) and the Hertfordshire Archaeological Archive Standards (Paul 2021). If they are unable to accept the physical archive, KDK will make alternative arrangements to hold the archive until deposition can be arranged.
- 5.4 The digital archive for this project will be uploaded to the Archaeological Data Service in line with the Hertfordshire Archaeological Archive Standards 2017.



6 Staffing

6.1 KDK Staff

Karin Kaye MA MCIfA

Karin graduated from the Institute of Archaeology, UCL with an MA and first-class honours degree in medieval archaeology. Her archaeological career began at the Heritage Network, in Hertfordshire, where she was given a solid grounding in commercial archaeology. In subsequent posts she gained considerable experience in managing all types of archaeological projects as well as specialising in historic buildings and church archaeology. She co-founded KDK Archaeology Ltd with David Kaye, which began trading in early 2013.

David Kaye BA ACIfA

David graduated with an honours degree from the Institute of Archaeology, UCL in 2004 following a long career in photography, graphic design, and exhibitions. He joined Heritage Network, in Hertfordshire, whilst still a student and gained considerable experience in his seven years there. Since then he has led many excavations, including a large Roman field system at a quarry site, an Anglo Saxon cemetery at a school, and an ongoing Roman roadside settlement at an industrial complex. Apart from the day-to-day project management, David is responsible for all elements of Health and Safety.

Laura Dodd MSc MCIfA

Laura graduated from the University of Reading in 2013 with a BA in archaeology and continued her studies at Durham University where she achieved an MSc in Palaeopathology. She has a particular interest in the isotopic analysis of human remains and during her time at Durham assisted in a project to identify potential childhood origins of several individuals found in a mass grave. Laura has taken part several large-scale excavations such as the Roman field school at Silchester and the Amheida project in Egypt's Dakhla oasis. Since joining KDK in 2015 Laura has gained experience of running all types of fieldwork and is now the post-ex and archives manager. She is also the company osteo-archaeologist and is a member of BABAO.

Ellen Shlasko PhD

Ellen has been working as a reports officer for KDK since 2015. Previously, she was based in the US, where she specialised in the historical archaeology of the southeast. A graduate of Brandeis University, she holds a MA in historical archaeology from the College of William and Mary in Virginia and a PhD from Yale University. Ellen is also active in the Welwyn Archaeological Society and the Community Archaeology Geophysics Group, which has been mapping the Roman city of Verulamium since 2013.

Barney King PCIfA

Barney King began working in archaeology after a varied career as a projectionist, theatre technician and plumber's assistant, among other occupations. He started working on large scale Romano-British sites in Hertfordshire and Buckinghamshire, after enjoying a stint of archaeological volunteer work. He joined KDK as field technician and company quartermaster in 2017, and is now responsible for maintaining IT systems, surveying and processing environmental samples.



Chris Martin-Taylor BSc

Chris Martin-Taylor graduated from Bournemouth University in 2015 with a BSc in Archaeology. Prior to that, he studied for a foundation degree in Applied Architectural Stonework and Conservation in Dorchester and Weymouth, which included practical training in stonemasonry and historic building conservation. He has worked on numerous sites in the midlands and southeast England, as well as taking part in the experimental archaeology project at Guédelon Castle in France. Chris joined KDK in 2017 and has enjoyed developing his skills in many aspects of archaeological fieldwork. He has a keen interest in the history and archaeology of the post-Roman and medieval periods, particularly the study of the early medieval built environment.

Derek Watson PhD

Derek Watson graduated from the Institute of Archaeology, UCL in 2004 with a PhD in Archaeology. He also has a first-class honours degree in Environmental Archaeology from the Institute of Archaeology and an MSc from the University of Sheffield in archaeological environmental science and palaeoeconomics. He has worked on both commercial and academic archaeological projects in North America, Europe, North and West Africa, and has directed his own research projects in Ghana. Derek has been working as a zooarchaeologist and a reports officer for KDK since 2018.

Pat Reeves

Pat joined KDK as an administrative assistant in 2017 bringing with her a wealth of experience from a long and varied career. Apart from her administrative and financial skills, Pat also provides specialist knowledge in post-medieval porcelain and small finds. She has been the office manager since 2021.



6.2 *Specialists*

The following are KDK's preferred specialists:

Subject	Specialist	Organisation
Building materials: Roman	Rob Perrin	Freelance
Building materials: post-Roman	Karin Kaye	KDK Ltd
Ceramics: prehistoric	Sarah Percival	Freelance
Ceramics: Roman	Rob Perrin	Freelance
Ceramics: Post-Roman	Paul Blinkhorn	Freelance
Coins: Roman	Peter Guest	Vianova Archaeology
Coins: Saxon	Anna Gannon	Freelance
Coins: Post-Saxon	Murray Andrews	Freelance
Environmental: seeds	Lisa Gray	Freelance
Environmental: archaeobotanical	Lisa Gray	Freelance
Environmental: mollusca	Mike Allen	Freelance
Environmental: soils	Mike Allen	Freelance
Environmental: animal bone	Derek Watson	KDK Ltd
Environmental: animal bone	Matilda Holmes	Freelance
Environmental: human bone	Laura Dodd	KDK Ltd
Environmental: human teeth	Patrick Mahoney	KORA
Environmental: pollen	Rob Scaife	Freelance
Bone antler & ivory small finds	Ian Riddler	Freelance
Glass	Hilary Cool	Freelance
Lithics	Sarah Bates	Freelance
Lithics	Lyndon Cooper	Pre-Construct Archaeology
Metalwork	Quita Mould	Freelance
Quernstones	Chris Green	Freelance
Industrial waste	Lynne Keys	Freelance
Saxon & medieval small finds	Rosie Weetch	Freelance
Timber	Damian Goodburn	Freelance



7 Programme

- 7.1 A programme of works will be agreed with HHET, the client and KDK. KDK will keep HHET and the client informed of progress throughout the project.
- 7.2 Once the Written Scheme of Investigation has been approved by HHET, a start date will be agreed with the client allowing HHET at least one week's notice in order to schedule monitoring visits. All monitoring visits by HHET will be agreed with the client.
- 7.3 The client will allow site access by HHET and archaeological specialists as required and provide detailed information regarding access requirements to ensure site protocols are not breached.

7.4 *Proposed Programme*

A provisional outline of the timetable and staffing of the different phases of the projects are as follows:

Stage	Days	Staff
Trial trenching	2-3	Site Director/Site Assistant
Report preparation	2-3	Site Director
Specialist reports	As required	Appropriate specialist
Archive	0.5	Archivist



8 Other Requirements

8.1 *Health and Safety*

All work by KDK staff will be carried out according to the relevant Health and Safety legislation. This includes, *inter alia*, the following:

- Health and Safety at Work Act 1974
- Construction (Design and Management) Regulations 2015
- The Management of Health and Safety at Work Regulations 1999
- Personal Protective Equipment at Work Regulations 1992
- Work Equipment Regulations 1998
- Manual Handling Operations Regulations 1992
- Workplace (Health, Safety and Welfare) Regulations 1992

A copy of KDK's *Health and Safety Policy* will be supplied if requested by client or HHET. An Initial Risk Assessment (Appendix 3) has been completed prior to the commencement of the project, and will be checked and updated on site.

8.2 Insurance

KDK holds the following insurance cover (further details can be provided if required):

Employer's Liability	£10,000,000
Public Liability	£5,000,000
Professional Indemnity	£1,000,000

8.3 Copyright

Unless otherwise agreed, full copyright of any written, graphic, electronic or photographic records and reports rests with KDK, which will licence their use in relation to the specific project by the client or sponsoring body in all matters relating to the project, as described in this Written Scheme of Investigation.

KDK will assign joint copyright to the museum or repository undertaking curation of the archive, but retains the right to be identified as author of all project documentation and reports, as defined in the Copyright, Designs and Patents Act 1988 (Chapter IV, sec.79).

8.4 *Curatorial Requirements*

Monitoring is carried out by HHET to ensure that project is being carried out in accordance with the Brief and approved Written Scheme of Investigation, to enable the need for modifications to the project to be independently considered and validated and to control and validate the use of available contingencies. HHET will be advised of the start date and the anticipated duration of the project at least one week before the commencement of the fieldwork. HHET will be allowed access to the site as required, as will other professionals as required to ensure compliance with project health and safety requirements and access controls.

8.5 *'Treasure'*

The 1996 *Treasure Act* and its 2003 amendment specifies that the finders of specific types of artefacts it defines as treasure must report them to the Coroner within fourteen days of discovery. Failure to do so could lead to a maximum penalty of three months in prison and a fine of £5000. Further details are available on the Portable Antiquities Scheme website at



www.finds.org.uk. The Portable Antiquities Scheme will be notified of any finds that could be considered treasure within 48 hours of discovery.

8.6 *Human Remains*

Under recent changes in legislation to Section 25 of the Burials Act 1857, an application for a licence should be made whether buried human remains are to be removed from the ground or intended to be left *in situ* (since excavation is likely to disturb them). A site-specific license will be procured from the Ministry of Justice in advance of the project if human remains are thought to be encountered during the fieldwork.

8.7 General Data Protection Regulations

As data controllers for personal information collected during the project, KDK will comply with the principles and letter of the GDPR regulations in the processing, management and archiving, where appropriate, of that data.



9 References

Standards and Specifications

Association of Local Government Archaeological Officers (ALGAO) 2003 *Standards for Field Archaeology in the East of England.* East Anglian Archaeology Occasional Paper 14

Brickley M. & McKinley J. I. 2004 *Guidelines to the Standards for Recording Human Remains*. Chartered Institute for Archaeologists Technical Paper.

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CIFA 2020a *Standard and Guidance for Archaeological Field Evaluation.* Reading: Chartered Institute for Archaeologists

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EH 2008 The Management of Research Projects in the Historic Environment. PPN3: Archaeological Excavation. London: English Heritage

EH 2010 Waterlogged Wood: Guidelines on the recording, sampling, conservation and curation of waterlogged wood London: English Heritage

HE 2015 *The Management of Research Projects in the Historic Environment: the MoRPHE Project Managers' Guide.* London: Historic England

McKinley J.I. & Roberts C. 1993 *Excavation and Post-excavation Treatment of Cremated and Inhumed Human Remains*. Chartered Institute for Archaeologists Technical Paper 13

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Secondary Sources

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EHC 2018 Aston Conservation Area Appraisal and Management Plan. Adopted March 2018. East Herts Council

KEPN 2024 Key to English Place-Names: Aston. The University of Nottingham. http://kepn.nottingham.ac.uk/map/place/Hertfordshire/Aston

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Appendix 1: Environmental Sampling Strategy

Stage I: Pre-excavation

KDK's general environmental sampling strategy is outlined in Section 2.3. Where appropriate a more detailed site specific strategy will be formulated at the start of a project based on the advice of KDK's Environmental Specialist and/or Historic England's Regional Science Advisor. The sampling strategy will:

- Take into account the research aims and objective of each individual project
- Identify the different categories of environmental remained expected to be encountered
- Outline the environmental analysis to be completed

The sampling strategy will be regularly reviewed throughout the excavation to ensure that it remains appropriate to the specific research aims.

Stage 2: Excavation

The sampling strategy outlined during Stage I will be readdressed after the site has been stripped. The updated strategy will be discussed with all on site personnel as well as HHET, the ES and HE where appropriate. The on-site collection and treatment of samples will be as follows:

- Sample sizes will normally comprise 40 litres of material; however, more or less than 40 Litres can be taken if deemed appropriate. <100% of smaller features such as postholes will be collected.
- Samples from wet or waterlogged contexts will be prioritized as these conditions are better suited for the preservation of organic material.
- When excavating human remains, multiple samples will be taken separately and clearly labelled with the areas they represent (e.g. head, pelvis)
- Samples will be placed into clean buckets which will then be labelled inside and out with the site code, context number, sample number and bucket number
- A register of all samples will be maintained and all samples will be recorded individually on KDK's Sample Records Sheet
- All samples will be removed from site and stored within a designated area at the KDK offices
- All unlabelled, duplicated or potentially contaminated samples will be discarded on site
- Modern and post-medieval samples, or those deemed unsuitable for sampling, will not be taken unless these features address specific research aims.

When dealing with waterlogged, insect and pollen, and deeply stratified sediments (e.g. peat) it may be necessary to seek advice from ES, HE and other environmental specialists (e.g. palynologists (pollen specialists) do discuss additional sampling methods.

Stage 3: Post-Excavation

Once excavation is complete, a final sampling strategy will be produced. This will highlight the samples most appropriate for processing and those which are to be deselected. This strategy will be discussed with and approved by HHET and the ES. Some of the samples may be selected for a preliminary assessment where a single bucket of material will be processed to analyse the potential value of the



sample. At this time if the sample is deemed unsuitable for further processing, no further action will be taken.

All bulk samples will either be subjected to dry sieving, or be processed using a flotation tank. The remaining material from this process will be fully dried, sorted and bagged before being sent to the relevant specialists for analysis (i.e. archaeobotonist, zooarchaeologist etc.) All other aspects of the processing, along with unsuitable samples, are discarded after the report has been approved by the planning archaeologist.

If a second phase of work is required after the Archaeological Investigation, (i.e. Strip, Map and Sample Excavation) collected samples may be processed when this is complete.



Appendix 2: Archive Collection and Selection Strategy

Project Details:

Name 10 Benington Road, Aston, Stevenage, Hertfordshire Site Code 827/ABR

Accession number TBC Project Type Evaluation Contact David Kaye BA ACIfA (Project manager) or Laura Dodd (Archivist)

Introduction:

This strategy, which concerns all of the data that is created and the archaeological material recovered during the course of the project, will be agreed between KDK, HHET and the depositing Museum. It is consistent with the projects aims and objectives and local research framework.

An identical version of this Appendix will be created and kept up to date as the project progresses. Updates will be agreed with HHET and the museum.

Digital Data Management Plan

Data Collection (what will be collected and how?):

Data will be collected in line with the Project Brief and WSI standards and requirements. Data acquisition standards are in line with the ADS guide to Good Practice. Specific data will be:

Excel Spreadsheets will be used on site to collect fieldwork data and registers Word documents will be used to produce draft reports which will be finalised in pdf format Digital images will be taken and saved as JPGs

Digital survey data will be presented in an appropriate CAD format and converted to TIFF or PDF as required.

A working project folder will be maintained of all project related data on the company server. Tablets will be used on site and downloaded to the folder on the company server on a daily basis.

Documentation and Metadata:

A summary of all data sources and contributors will be provided as part of the final archive alongside a meta data summary. This will be prepared in line with ADS deposition guidelines.

Ethics and Legal Compliance (how are any ethical, copyright and IPR issues being managed?):

KDK have a GDPR compliant privacy policy which underpins the management of personal data. Personal data is not stored in the project related folders but separately on the company server. Any personal data will be removed from the project archive and permission to use individuals' names in any reporting is gained prior to use.

Copyright of all data created by the team is owned by KDK and permission to include data from external sources is secured on the engagement of that source.

Where formal permission or licence agreements are required for data sharing these will be included in the project documentation.

Storage and Back up (how will data be stored, accessed and backed up during the project?):

Organisational IT is managed by an internal IT and data manager who is responsible for the management and verification of daily back-ups and who supports access to security copies as needed.



The onsite company server is automatically backed up 5 times a day to a secure off site server through an encryption process.

Sufficient data storage is available on the onsite company server, which includes single factor authentication and permissions-based access. The server is accessible by staff on and off site through a secure log-in.

Off site access to the project files on the server is provided to support back up of raw data while fieldwork is ongoing. Where internet access is not possible, the raw data is backed up to a separate hard drive until direct access to the server can be established.

Only KDK staff can access the server. External specialists and contractors are sent whatever documentation they need via email or WeTransfer, none of which contain sensitive information.

Selection and Preservation (what will be retained, shared and/or preserved, what's the long-term plan for data preservation, are ADS informed and have costs been considered?):

The collection and selection strategy, including the data management plan will be reviewed throughout the project and specifically at the end of fieldwork and/or before post excavation work starts and following full analysis. The updated plans will be included in all reporting stages. Prior to deposition the plans will be updated and finalised in agreement with the planning archaeologist, museum, client and ADS if appropriate.

All versions of data will be retained until report approval. Final versions of digitally born data will be archived on ADS. Paper records will be archived at the museum in line with museum guidance. Duplicate documents will be deleted and the remaining data will be retained in the file structure on the company server.

The full costs of archiving in line with museum guidelines have been included in the project costs.

Data Sharing and Accessibility (how will data be shared and made accessible and are there any restrictions):

The project has been added to the OASIS Index of Archaeological Investigations (kdkarcha1-522840) and will be updated as the project progresses. A final version of the approved report will be added to OASIS along with details of the project archive location.

The final version of the report will be supplied to the Historic Environment Record when approved by the planning archaeologists. Any further data which they request will be provided directly. No restrictions to data or data sharing are envisaged at this stage.

Responsibilities (who is responsible for data management):

The project manager is responsible for implementing the data management plan and ensuring it is reviewed at each stage of the project. The data capture, metadata production and data quality is the responsibility of the project team, quality assured by the project manager.

Storage and back up of data in the field is the responsibility of the field team and once data is on the organisational server it is the responsibility of the IT and data manager.

Data archiving is undertaken by the project team in conjunction with the archive officer and the archive officer is responsible for the transfer of the archive to the final repository.

Paper data

All project related paper documentation, for example fieldwork sheets, drawings, black and white photographs, maps, as opposed to administration paperwork, will be archived as part of the document archive with the museum. Duplicate documentation will be recycled and any administrative paperwork will be scanned and retained digitally by KDK.



Small and Blank Projects

Where archaeological work results in no finds or features of archaeological significance a single all in one report will be prepared and, if agreed with the CAO and museum, will be uploaded as the digital archive to OASIS. Also, if agreed, there will be no paper archive deposited with the museum.

For small projects where the digital archive comprises of only digitally born photographs the data will be stored on OASIS using OASIS images.

Materials and Artefacts

The key finds groups and how these will be selected for retention or discard are outlined below:

Find Type	On site selection	Post Excavation selection
Pottery	All pottery sherds will be collected other	The majority of pottery collected will be
	than obviously post medieval sherds from	retained for archiving. Exceptions may be
	unstratified contexts unless they appear	made for sherds recovered from
	archaeologically significant	unstratified contexts or repetitive and
		undiagnostic sherds. All pottery will be
		quantified and subject to specialist input.
		Deselection will be undertaken in discussion
		with the specialist, HHET and the museum
СВМ	All CBM will be collected other than	All collected CBM will be retained, although
	obviously post medieval CBM from	unidentifiable fragments from poor or
	unstratified contexts unless they appear	unstratified contexts may be discarded
	archaeologically significant. However,	subsequent to full quantification, specialist
	where large quantities are found a further	advice and discussion with HHET and the
	discussion between KDK, HHEI and the	museum
	museum may result in an amended	
	approach le sampling	
Worked Stone	All worked stone found will be collected	All worked stone will be retained for
		archiving, in discussion with the museum.
		All unworked stone will be discarded
		following quantification
Animal Bone	All animal bone found will be collected	All animal bone will be retained. Disposal
(including		may be considered for very fragmented and
worked bone,		poorly preserved objects or those which
iverv		nave been recovered from unstratilied
ivory)		interest
Ferrous and	All metal will be collected	All precious metals will be retained. Other
non-ferrous		ferrous or non-ferrous metals will be
metals		retained with the exception of
		unidentifiable fragments and those beyond
		conservation. Also common bulk finds such
		as nails may be subject to retention of a
		sample following discussion with the
Glass	All glass objects will be collected other	All items will be retained although post
	than obviously post medieval glass from	medieval and modern items may be
	unstratified contexts unless they appear	sampled following discussion with HHET
	archaeologically significant	and the museum
Clay Pipes	All clay pipes will be collected	All items will be retained unless fragments
		are plain or from poor or unstratified



Find Type	On site selection	Post Excavation selection
Worked Wood and other plant derived objects	All worked wood or other plant derived objects will be collected	contexts All items will be retained unless items are deemed unsuitable for long term preservation. All items will be checked by a specialist for selection and any discard agreed with HHET and the museum
Leather and Textiles	All leather and textiles will be collected	All items will be retained unless items are deemed unsuitable for long term preservation. All items will be checked by a specialist for selection and any discard agreed with HHET and the museum
Other	All other items found will be collected	All medieval or older items will be retained. Post medieval items will be discussed with HHET and the museum to agree retention strategy
Environmental samples	40l samples will be taken from archaeologically significant features in line with the agreed sampling strategy, see Appendix 3 for details. This means that environmental samples will not be taken routinely from backfilled contexts unless there are archaeologically significant reasons to do so. Environmental sampling will focus on areas of naturally silted fills and where organic matter, charcoal and carbon are more likely to be found	Tangible artefacts found through the environmental processing will be retained for archiving, this includes the flots from archaeobotanical analysis All other retention from the processing will be discarded
	The Environmental Specialist will be engaged to discuss more detailed strategies in areas of specific interest if they arise	
	Securely stratified deposits that contain dating evidence will be targeted, particularly corn driers, hearths, kilns, pits and cesspits, of all periods across the site	
	Different parts or layers in kilns /ovens will be sampled to examine function	
	10 litre samples for insect analysis from waterlogged deposits if present, and additional samples for plant macrofossils may also be taken.	
	Pollen samples will be taken from a representative selection of contexts of different potential time spans	
	20% of the pre-medieval quarry pits, if present, will be sampled to determine the presence of mineralised material	

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Appendix 3: Initial Health and Safety Risk Assessment

In accordance with current legislation and KDK's Health and Safety Policy, an Initial Health and Safety Risk Assessment has been prepared.

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	Lister Hospital
The Accident and Emergency Unit closest to the site is:	Stevenage, Hertfordshire, SG1 4AB
	Tel: 01438 314333

A risk assessment for tasks and hazards typical to this type of project appears on the following pages. An assessment of site-specific hazards appears below.

Site-Specific Hazards:	Risks:	Mitigation:
Excavating close to public	Injury/death	 Fence site off securely Ensure safe access & egress for all vehicles
Close proximity to machinery	Danger of individuals being hit	 Clearly signal instructions / intentions to plant operators. Maintain safe distance from plant. Use appropriate PPE
Live services	Injury/death	Check trench locations carefully with CAT & genny
Deep features	Collapse of sides; falling into features	 Maintain awareness of surroundings Wear appropriate PPE Shore sides if needed
NB: Asbestos, contaminants etc Serious health risks		The developer is to ensure that the site is free of hazardous materials. Where such material is discovered during fieldwork, the developer will remove it or make it safe before KDK continues with onsite work. KDK to be informed of the use of pesticides, insecticides, herbicides or similar substances on the site prior to the start of any fieldwork.
Project:	10 Benington Road, Aston, Stevenage, Hertfordshire	
Project Code:	827/ABR	
Date of Assessment:	14.02.2024	
Assessed By:	Derek Watson PhD	



Site staff to sign:



Archaeological Fieldwork: General Hazards										
Task	Hazard	Adverse Effect	People at Risk	Likelihood × Consequence = Risk Score			Actions to minimise risk	Residual Risk		
Travel to and from workplace	Traffic accident	Major	Field staff, visitors, public	2	4	8	 Ensure suitable insurance is in place. Maintain vehicles in good condition. Staff to observe traffic regulations. 	4		
Access/egress workplace	Moving vehicles and plant	Catastrophic	Field staff, visitors	2	5	10	 Observe site speed limits. Park in designated area. Transport by vehicle to excavation area if required. 	5		
Access/egress workplace	Reversing vehicles and plant	Catastrophic	Field staff, visitors	2	5	10	 Observe site speed limits. Park in designated area. No reversing without assistance/supervisio n. 	5		
General site work	Trips/slips	Minor	Field staff, visitors	3	2	6	 Ensure good housekeeping. Cease work if site conditions are extremely poor. Use appropriate footwear. Be mindful of environment 	4		
General site work	Manual handling	Moderate	Field staff	3	4	12	 Instruct staff in correct lifting techniques. Use suitable equipment to transport heavy loads. Train staff to use equipment. 	4		
General site work	Adverse weather	Minor	Field staff, visitors	2	2	4	 Wear appropriate clothing. Provide welfare facilities Cease work in very adverse weather. 	2		
General site work	Presence of contaminants, pathogens and other hazardous substances	Major	Field staff	2	4	8	 Review results of available geotechnical assessments. Conduct COSSH assessment if hazard identified. Inform staff of identified hazards. Restrict working areas if necessary. Provide welfare/hygiene 	4		



Tack	Hazard	Adverse	People	Liko	lihoor	12	Actions to minimise risk	Residual
Idsk	Hazaro	Effect	at Risk	Consequence = Risk Score			Actions to minimise risk	Residual Risk
							• Use appropriate PPE.	
General site	Environmental	Moderate	Field	2	4	8	Dampen down dry	2
work	pollution		staff,				surfaces.	
			visitors,				Restrict hours of	
			public				plant operation as	
							 Seek to minimise 	
							landfill.	
General site	Fire	Catastrophic	Field	2	5	10	Compile fire risk	5
work			staff,				assessment if	
			visitors,				required.	
			public				Maintain good	
							housekeeping	
							Provide suitable	
							firefighting	
Soil stripping	Excounting plant	Catactrophic	Field	2	E	15	equipment	
Soli stripping	Excavating plant	Catastrophic	staff	5	5	15	 Induct plant operators Identify designated 	
			visitors				routes for plant	
							movement.	
							 Clearly signal 	
							instructions / intentions	
							to plant operators.	
							 Maintain safe distance 	
							from plant.	
Califatation in a	the constant	Catastroubis	Et al al	2	-	45	Use appropriate PPE.	
Soli stripping	Live services	Catastrophic	Field	3	5	15	Obtain service maps	5
			Stall				Use CAT scanner to locate services	
Soil strinning	Power lines	Catastrophic	Field	3	5	15	Observe HSE guidelines	5
Sou stubbing	r ower lines	edustrophie	staff	5	5	15	for plant operation in	5
							vicinity of power lines.	
							• Establish goal posts to	
							constrain plant	
							movement.	
Soil stripping	Undermining	Catastrophic	Field	3	5	15	• Leave a suitable gap	5
	structures		staff,				between excavation and	
			visitors,				adjacent structures (e.g.	
			public				• Locato tronchos outsido	
							tree canopy.	
Soil storage	Subsidence	Catastrophic	Field	3	5	15	 Induct plant operators 	5
			staff,	_	_		Identify designated	-
			visitors,				routes for plant	
			public				movement.	
							 Identify suitable storage 	
							areas away from the	
							edges of excavation.	
							Compact spoil and	
							grade slopes of soil	
Hand		Major	Eicld	2	л	0	stores.	
excavation		iviajUl	staff	2	4	°	Instruct Std11 III appropriate protocols	5
CACGUGUION			5001				and hygiene	
				1		1		1



Archaeological	Archaeological Fieldwork: General Hazards									
Task	Hazard	Adverse Effect	People at Risk	Likelihood × Consequence = Risk Score			Actions to minimise risk	Residual Risk		
							welfare/hygiene facilities. • Use appropriate PPE.			
Hand excavation	Deep features	Catastrophic	Field staff	4	5	20	 Fence or suitably demarcate areas of deep excavation. Step or batter edges of excavated area Assess stability of strata Shore all vertical faces deeper than 1.2m Use secured ladder for access/egress. Monitor regularly for signs of subsidence. Cease work if heavy rain causes strata to become unstable. Consider use of auger to record the depth and sample the base of feature. Machine excavate if permitted. Use appropriate PPE. 	4		
Hand excavation	Hand tools	Minor	Field staff	3	2	6	 Train field staff in correct use of tools. Instruct and closely supervise staff until competent. Monitor staff compliance. Use appropriate PPE. 	5		
Hand excavation	Power tools	Major	Field staff	3	4	12	 Employ suitably qualified contractors if appropriate. Use correct tools for job. Train field staff in correct use of tools. Instruct and supervise staff until competent. Monitor staff compliance. Use appropriate PPE. 	4		
Hand Excavation	Tool/equipment failure	Major	Field staff	3	4	12	 Maintain equipment. Replace worn or broken equipment. 	4		
Recording Excavation	Working at height (photography)	Catastrophic	Field staff	3	5	15	• Subcontract a remotely operated elevated camera or cherry picker.	4		