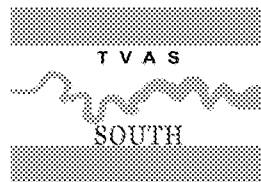


Land north of Water Lane, Angmering, West Sussex

Project specification for an archaeological evaluation

**27th April 2021
(rev 14/5/21)**



Ref: 19s120ev

TVAS (South), 77a Hollingdean Terrace, Brighton, East Sussex, BN1 7HB

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Project specification for archaeological evaluation

1.0 Background

1.1 The site is located on the north west side of Water Lane, Angmering, West Sussex (TQ 0755 0500). The site comprises an area of c. 29.5ha of former farmland and a racing circuit of which c. 24.5ha is to be developed.

1.2 Outline planning permission (A/40/18/OUT) has been gained from Arun District Council for residential development. The consent is subject to a condition (25) relating to a archaeology.

1.3 The archaeological potential of the site had been considered in a desk-based assessment, (CgMS 2017) and geophysical survey (Sumo 2017). In summary, the site lies on the archaeologically rich Sussex coastal plain (eg Manley 2008; Rudling 2003; Taylor et al 2014; Wallis and Ford 2014; Wallis 2019; Bray et al 2019; Rouard in prep). For example at Northbrook College to the east lies an extensive complex of Iron Age and Roman settlement with a Roman villa present (Wallis and Ford 2019) with a further extensive Roman and Saxon settlement at Courtwick Lane to the west (Bray et. al. 2019). Very recent fieldwork just to the south of Angmering has revealed further prehistoric and Roman settlement (Rouard in prep). The county historic environment record notes the presence of various stray finds and sites of prehistoric, Roman and Saxon date in the vicinity including a Late Bronze Age enclosure.

Most of the site has been subject to geophysical survey (Sumo 2017), which did not reveal any obvious anomalies of archaeological interest. However, as the report states the geological substrate (London Clay) is not conducive to geophysical survey and absence of evidence cannot be taken to be evidence of absence. The London Clay is not noted for its archaeological potential but survey work elsewhere does report the persistence presence of Iron Age and Roman settlement even if sites are smaller and more dispersed than on other outcrops.

2.0 Requirement for Work

2.1 As a result of the possibility of damage or destruction of archaeological deposits during development of the site it is proposed to carry out a field evaluation on the site as detailed in the *National Planning Policy Framework* (NPPF 2019) and Arun District Council's policies on archaeology. This work will be carried out to comply with the Sussex requirements for archaeological fieldwork (ESCC 2019), and in accordance with the relevant guidelines of the Chartered Institute for Archaeologists (Cifa 2020a).

2.2 A number of countrywide policy documents for archaeological research such as Historic England Research Agenda (HE 2017) consider the full range of deposits that might be encountered on the site. More specific aims are presented in the *South-East Research Framework Resources Assessment and Research Agenda* (SERFA 2019).

2.3 One component of work is proposed at this stage, namely field investigation by means of machine trenching. Dependent on the findings of this evaluation, further archaeological work may be requested and will be determined through consultation with the archaeological advisor to Arun Council (the Chichester District Council Archaeological Officer) who advises the council on archaeological matters. This document is concerned with the trial trenching phase of archaeological works, and any additional work will be governed by a separate written scheme of investigation.

3.0 Aims and Objectives

3.1 The aims of the evaluation will be to determine the presence/absence, extent, condition, character, quality and date of any archaeological or palaeoenvironmental deposits within the area of development.

3.2 This work will be carried out in a manner which will not compromise the integrity of archaeological features or deposits which warrant preservation *in situ*, or might better be excavated under conditions pertaining to full excavation.

3.3 The specific research aims of this project are;

- a) To determine if archaeologically relevant levels have survived on this site.
- b) To determine if archaeological deposits of any period are present.
- c) To determine if there are any deposits of Prehistoric date on the site
- d) To determine if there are Iron Age, Roman or Saxon iron production sites are present.
- e) The potential and significance of any such deposits located will be assessed according to the research priorities such as set out in *Historic England Research Agenda* (HE 2017) or any more local or thematic research priorities such as the *South-East Research Framework Resources Assessment and Research Agenda* (SERFA 2019) as necessary.

4.0 Methodology

4.1.1 We propose to dig 238 trenches, 25m long and 2m wide across the site, as shown on Figures 1 (5% of site area). The trench positions are indicative only and may need to be moved or subdivided to avoid obstacles or services.

4.2 A contingency of 250m of trench is included within the proposal should this be required to clarify the results of the initial trenching.

4.3 Excavation Methodology

4.3.1 Topsoil and other overburden for the machine-dug trenches will be removed by a 360° machine fitted with a toothless ditching bucket. This will take place under constant archaeological supervision.

4.3.2 Trenches will be excavated to the first archaeologically relevant horizon, or to the level of the natural geology.

4.3.3 Should alluvium (or peat) be encountered overlying gravel, this will be removed in spits of 0.1-0.15m thickness with each phase of surface exposed inspected for deposits and artefacts.

4.3.4 Where archaeological features are certainly or probably present, the stripped areas will be cleaned using appropriate hand tools.

4.3.5 Sufficient of the archaeological features and deposits exposed will be excavated or sampled by hand to satisfy the aims of the brief, without compromising the objective set out in 3.2.

4.3.6 In general, all finds and artefacts will be retained, though all but a sample of some classes of building material will be discarded after recording.

4.3.7 Conservation on site will follow guidelines in *First Aid For Finds* with any other specialist conservation work subcontracted to our conservation advisor (see below).

4.3.8 A programme of environmental sampling will take place should sufficient well stratified subsoil deposits be located. Typically this involves samples of up to 40L depending on the size of the feature examined. Bulk waterlogged samples with organic preservation will be of the order of 1L. These will be sampled in consultation with our environmental consultants and the archaeological advisor to Horsham District Council. Sampling will take place according to Historic England guidance (HE 2015b).

4.3.9 Discovery of any human remains will be confirmed by minimal excavation but no further action will be taken as part of the evaluation exercise, unless requested as additional work by the client in consultation with the archaeological advisor to Wokingham Council. Human remains will be treated following the guidelines in Mitchell and Brickley (2017).

4.3.10 Spoilheaps will be searched for finds including use of a metal detector.

4.3.11 All gold and silver, prehistoric base metal and any associated objects will be removed to a safe place and reported to the local coroner and county finds liaison officer according to the procedures relating to the Treasure Act (1996) and subsequent amendments. Where removal cannot be effected on the same working day as the discovery suitable security measures will be taken to protect the finds from theft. No title will be assumed by the finder of any items of value.

4.3.12 Following completion of all excavation and recording, the trench will be efficiently backfilled but will not be resurfaced. No liability is accepted for damage to any services unless a plan of these is provided by the client.

4.4 Recording Methodology

4.4.1 A single context recording system will be used in accordance with the TVAS Field Recording Manual (8th edition 2018). Descriptions of individual deposits and features will be recorded on pro-forma context recording sheets.

4.4.2 All archaeological deposits exposed will be planned at a scale of 1:20 and sections drawn at a scale of 1:10. All site drawings will be by pencil on drafting film.

4.4.3 Heights above OD will be taken and recorded on plans and sections.

4.4.4 Where appropriate, significant finds will be recorded in 3D.

4.4.5 The locations of the trenches, and of all plans and sections will be tied into the National Grid using Korec hand held GPS machines accurate to 0.1m, or using a total station.

4.4.6 The photographic record will consist of digital image and monochrome film image. It will record the principal features and finds discovered, both in detail and in their general context. The photographic record will also include 'working shots' and, where applicable, aerial photographs to illustrate the nature of the archaeological fieldwork programme. All feature shots will include appropriate scales and a photo board, the latter positioned in such a way that the writing is legible and including the context number and site code. Digital images are taken on Canon EOS 4000D cameras with APS-C sensors taking 16-megapixel images. Images for archiving purposes are taken using high quality settings in TIFF format.

4.5 Post-fieldwork

4.5.1 Finds processing, sieving of bulk samples (including flotation and the sorting of residues) and analysis will commence immediately following the completion of the fieldwork in accordance with guidelines in MoRPHE (HE 2015a), and TVAS post-excavation procedures (6th edition 2013).

4.5.2 Artefacts will be cleaned, conserved and prepared for long term museum storage.

4.5.3 Specialist reports will be prepared on the artefacts and ecofacts recovered; particular attention will be paid to correlating the pottery recovered with local or regional fabric type sequences.

4.5.4 Specialist analysis and reporting will be carried out by the following specialist staff or consultants as appropriate:-

Project Management	Mr. Sean Wallis
Fieldwork Supervisor	(one of) Mr Sean Wallis or Ms Odile Rouard
Post excavation	Mr. Steve Preston
Finds coordination	Dr. Cristina Matteos
Pottery Specialist (from)	Dr. Jane Timby, Ms Sue Anderson, Ms Alice Lyons, Mr. Luke Barber, Dr. Alexandra Guitierrez (consultants) or Dr Richard Tabor (TVAS)

Environment (general)	Ms Elspeth St John-Brookes (TVAS) or Professor Mark Robinson (Oxford University)
Brick and Tile	Ms. Danielle Milbank, (TVAS)
Carbonised botanical remains	Professor Mark Robinson (Oxford University) or Ms. Rossy McKenna (consultant)
Faunal remains	Dr. Matilda Holmes (consultants) or Dr Ceri Falys (TVAS)
Human remains	Dr. Ceri Falys (TVAS)
Coins	Dr. Pierre Manisse (TVAS)
Metalwork	Dr. Robin Taylor (consultant) or Mr Aidan Colyer (TVAS)
Pollen	Mr. Dan Young (Quest, Reading University)
Wood	Ms. Rossy McKenna, (consultant) or Mr. Michael Bamforth (consultant)
Slag	Dr. David Dungworth (consultant)
Archaeomagnetism	Bradford University
Radiocarbon dating	Queens University, Belfast
Conservation	Wiltshire County Council Heritage Centre

5.0 Report and Dissemination

5.1 The reports on the results of the evaluation and should be available within 4 weeks of completion of the fieldwork.

5.2 The reports will follow our established format, comprising a descriptive text, illustrations and catalogues in appendices.

5.3 The text will address the aims and objectives of the evaluation, the methodology employed, describe the basic nature of the archaeological deposits discovered, and report on the artefacts recovered. It will then attempt to place the significance of the findings in their local, regional and national setting if appropriate.

5.4 The reports will include a frontsheet providing the following information:

- *Site name
- *Grid reference
- *Site activity (eg. evaluation trenching, geophysical survey, fieldwalking, watching brief, excavation etc.)
- *Date and duration of project
- *Site code
- *Area of site
- *Summary of results
- *A selection of historic maps
- *Monuments identified (referenced to the RCHME Thesaurus of Monument Types)
- *Location and reference of archive

5.5 The illustrations will include:

- a site location plan
- a trench layout plan
- trench plans and sections
- profiles/sections of a selection of excavated features
- a selection of colour photos of significant findings

5.6 Catalogues giving descriptions of trenches, archaeological features, and artefacts will be contained in a series of appendices.

5.7 Any findings of national or special local significance will be published as a dedicated report in an appropriate journal such as *Sussex Archaeological Collections*. Otherwise a summary will be produced for publication in 'round up' sections in publications such as period specific national journals like *Medieval Archaeology*.

5.8 Copies of the results will be supplied to the West Sussex HER in digital format. Non-published report(s) will be made available for inspection or download on the TVAS web site.

6.0 Archive Selection Strategy and Data Management Plan

6.1 An academic synthesis of the findings of the fieldwork will be presented as a report detailed above in section 5, addressing where appropriate the regional research topics such as presented in the *South-East Research Framework Resources Assessment and Research Agenda*. Selected summary data, such as digital images will be presented to the county Historic Environment. The original record and artefact data will be managed according to the plan set out in paras 6.2-6.7 (above).

6.2 The finds and site archive will be prepared in accordance with guidelines in MoRPHE (HE 2015a), Cifa guidance (Cifa 2020a) and after consultation with the recipient museum.

6.3 The site and finds archive will be deposited in Worthing Museum or Archaeology Data Service

6.4 With the consent of the landowner, the site finds will be deposited in Worthing Museum.

6.5 The records will be copied onto microfiche for the National Archaeological Record.

6.6 A digital version of the report will be provided to the OASIS project.

6.7 The digital component of the archive will be managed according to TVAS digital archive and backup recording policies.

7.0 General Items

7.1 The project will be managed on a regular basis by a Member of the Chartered Institute for Archaeologists (S. Ford, J. Pine or A. Taylor) with an appropriate area of competence.

7.2 The project will be carried out in accordance with the Cifa Standard and Guidance for archaeological evaluation (2020b) and Code of Conduct (2019) and the quality control mechanisms set out in the TVAS fieldwork and post-fieldwork manuals.

7.3 Safe working practices as set out in TVAS health and safety manual will be adopted and current health and safety regulations will be adhered to. If the site is accessible to the public, the trenches will be fenced with barrier mesh/bunting and road pins or Heras fencing as necessary.

7.4 Our insurance cover comprises £10 million for public liability, £10 million for employee liability, cover for any hired-in plant, and professional indemnity cover of £5m.

7.5 The archaeological advisor to Arun District Council will be contacted both prior to work commencing on site, and during the evaluation itself, to arrange a site monitoring visit. Any changes in the agreed project design will be discussed and agreed with the project consultant and the archaeological advisor to the Council before implementation.

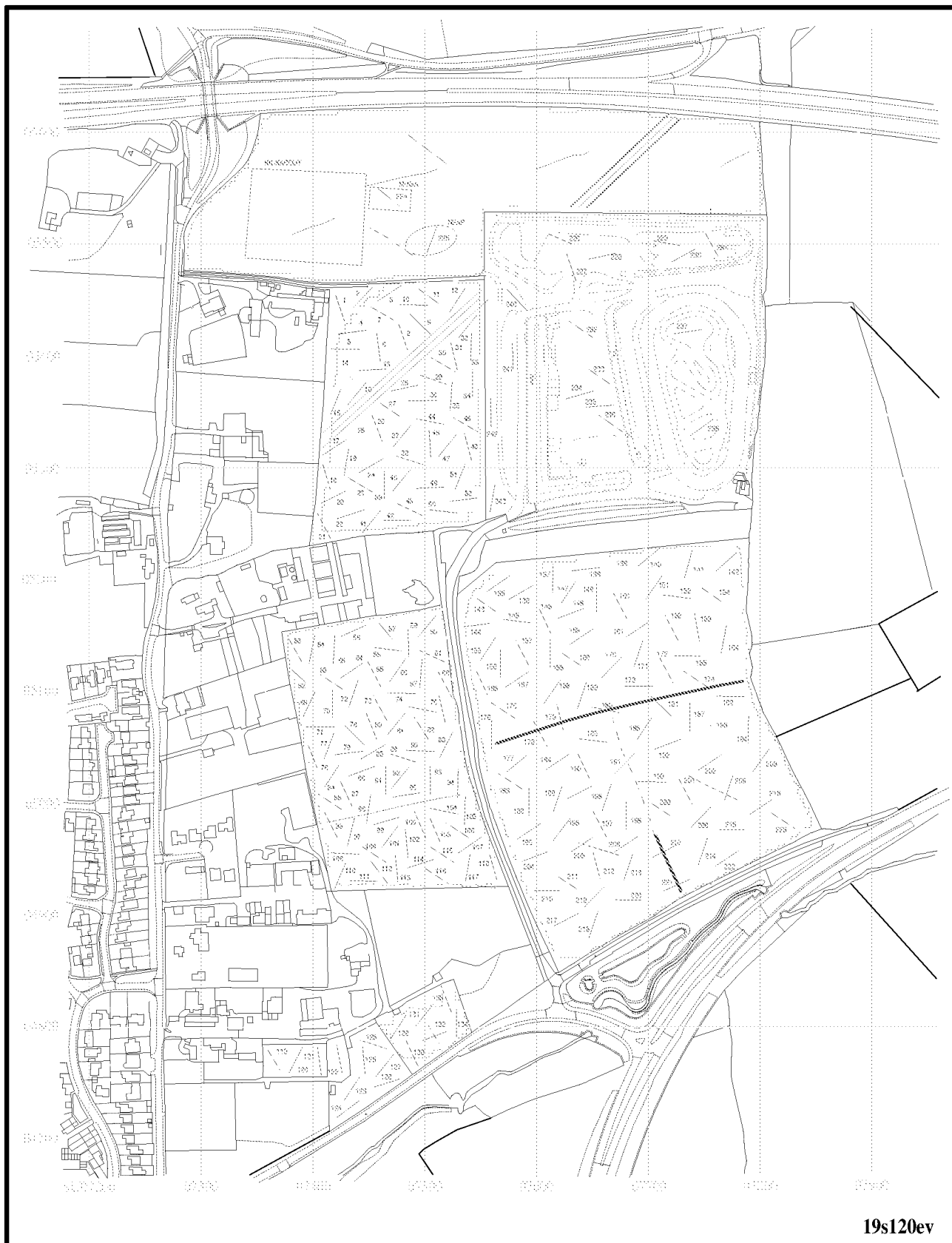
8.0 Resources

It is anticipated that 70-90 man/days will be required on site for the trenching with a similar number for post-fieldwork.

9.0 References

- Bray, D, Porter, S and Wallis, S, 2019, *Late Iron Age, Roman and Saxon Occupation at Courtwick Lane, Littlehampton, West Sussex*, TVAS Monograph **33**, Reading
- CgMs , 2017, Land north of Water Lane, Angmering, West Sussex, Archaeological desk-based assessment, CgMs Consulting, report 23545, London
- Cifa, 2020a, *Standard and guidance for the creation, compilation, transfer and deposition of archaeological archives*, Chartered Institute for Archaeologists, Reading

- CIfA, 2020b, *Standard and guidance for archaeological evaluation*, Chartered Institute for Archaeologists Reading
- CIfA, 2019, *Code of Conduct*, Chartered Institute for Archaeologists, Reading
- ESCC 2019, *Sussex Archaeological Standards*, East Sussex County Council, Lewes.
- HE, 2015a, *Management of Research Projects in the Historic Environment, MoRPHE project planning*, Historic England, London
- HE 2015b, *Environmental Archaeology*, Centre for Archaeology Guidelines 1, Historic England, Portsmouth, 3rd edn
- HE 2017, *Research Agenda*, Historic England, London
- Manley, J (ed), 2008, *The Archaeology of Fishbourne and Chichester; a framework for its future*, Sussex Archaeological Society, Lewes
- McNicoll-Norbury, J, Sanchez, D, Taylor, A, Thompson, F and Wallis, S, 2017, *Archaeological Investigations in Sussex: Prehistoric and Roman features in Selsey, Worthing, Angmering and Horsham, and Medieval occupation in Hailsham, Horsham and Crawley*, TVAS Occas Pap 17, Reading
- Mitchell, P D and Brickley, M (eds), 2017, *Updated Guidelines to the Standards for Recording Human Remains*, CIfA and BABAO, Reading
- NPPF, 2019, *National Planning Policy Framework*, Department of Communities and Local Government, London (TSO)
- Rouard, O, in prep, *Iron Age and Roman Occupation at Water Lane, Angmering*, TVAS South project, 21/01 Brighton
- Rudling, D (ed), 2003, *The Archaeology of Sussex to AD2000*, Brighton
- SERFA 2019, *South-East Research Framework Resources Assessment and Research Agenda*, Kent County Council, Maidstone. On-line.
- Sumo 2017, *Land north of Water Lane, Angmering, West Sussex*, Sumo, report 11606, Upton on Severn
- Taylor, A, Weale, A and Ford S, 2014, *Bronze Age, Iron Age and Roman Landscapes of the Coastal Plain, and a Late Iron Age Warrior Burial at North Bersted, Bognor Regis, West Sussex*, Thames Valley Archaeological Services monograph 19, Reading
- Wallis, S and Ford, S, 2014, *Bronze Age and Middle Iron Age Occupation and Roman Fields at Lidsey Landfill, Woodgate, West Sussex*, Thames Valley Archaeological Services occasional paper 5, Reading
- Wallis, S, 2019, *Bronze Age, Iron Age and Roman Settlement at Toddington Lane, Littlehampton, West Sussex*, Thames Valley Archaeological Services monograph 37, Reading
- Wallis, S and Ford, S, 2019, *Bronze Age, Iron Age and Roman Occupation at Northbrook College, Littlehampton Road, West Durrington, West Sussex*, Thames Valley Archaeological Services monograph 34, Reading



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Land at Water Lane North, Angmering, West Sussex, 2021

Proposal for Archaeological Evaluation

Figure 1. Site plan, compared to magnetic geophysical anomalies of possible archaeological origin (Sumo 2017).
Areas in north (light blue) proposed MUGA, NEAP and pitch areas.

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SOUTH