Archaeology Wales

Written Scheme of Investigation for an Archaeological Evaluation at the Llanuwchllyn to Glan-llyn Cycle Path, Llanuwchllyn, Bala

Prepared for:

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NON TECHNICAL SUMMARY

This Written Scheme of Investigations details the proposal for the excavation of two, 10m long, evaluation trenches at the 'Llwybr Tegid' Cyle Path, Llanuwchllyn, Bala, Gwynedd. It has been prepared by Archaeology Wales Limited for Spencer Pugh Associates, Tywyn, Gwynedd.

1. Introduction

A development of a new 450m length of the 'Llwybr Tegid' cycle path between Llanuwchllyn and the Glan-llyn Outdoor Education Centre, Gwynedd, (Henceforth – the site) has been proposed (Planning Reference: pre-application) by Mr Spencer Pughe of Spencer Pugh Associates. The development plot comprises a linear area of land, owned by *Urdd Gobaith Cymru*, to the south of the A494 Llanuwchllyn to Bala Road and to the west of the Glan-llyn outdoor Education Centre, National Grid Reference centred on SH88513176. The remainder of the field is owned by Mr Glyn Edwards, Fferm Y Lon, Llanuwchllyn, Gwynedd, LL23 7ST and is outside of the scope of the development; no access is allowed to Mr.Edwards' land.

In preparation for the submission of an Outline Planning Application, Gwynedd Archaeological Trust (GAT) undertook an archaeological assessment in May 2012 for the first proposed cycle route (GAT report 1055). This concluded that the Roman Road from the Roman fort of Caer Gai to the Roman fort of Caersws would intersect the cycle route. The eastern end of the cycle route was subsequently modified and a desktop assessment undertaken in January 2015. The report on this work follows recommendations made by John Roberts, Snowdonia National Park Archaeologist (Henceforth - SNPA).

The report identified a previously unrecorded banked earthwork enclosure located at the south-western end of the proposed development near Glanllyn Isa. This feature was visible on a 1948 RAF aerial photograph and measured 75m square, with two rounded corners, which can be indicative of a Roman military site. At this point the walkover assessment of the site identified two low parallel banks with possible associated ditches (GAT report 1227). There is some historical evidence that the earthwork may be from 20th century agriculture of the Welsh Agricutural Sub-Committee. The proposed cycle route will cut through 2.5m of the width of the northern side of the enclosure.

This Written Scheme of Investigation has been prepared by Kate Pitt (ACIfA), Project Manager, Archaeology Wales Ltd (Henceforth - AW) at the request of Mr Spencer Pughe. It provides information on the methodology that will be employed by AW during the excavation of two evaluation trenches and two evaluation test pits at the location of the earthwork enclosure.

All work will conform to 'Standard and Guidance for Archaeological Evaluation' (CIfA 2014) and be undertaken by suitably qualified staff to the highest professional standards. Archaeology Wales is a Registered Archaeological Organisation with the Institute for Archaeologists.

2 Site description

The site comprises a 2.5m wide corridor of land in an area of agricultural land.

3 Site specific objectives

This WSI is for a programme of archaeological works, to be undertaken prior to planning consent, in accordance with guidelines set out in Planning Policy Wales 2012 and Welsh Office Circular 60/96.

The primary objective of the work is to investigate a banked earthwork enclosure. The work will help to elucidate the presence or absence of associated archaeological material, its character, distribution, extent, condition and relative significance.

The work will include an assessment of the regional context within which the archaeological evidence rests and will aim to highlight any relevant research issues within national and regional research frameworks.

The work will result in a report that will provide information of sufficient detail to allow informed planning decisions to be made which can safeguard the archaeological resource. Preservation in situ will be advocated where at all possible, but where engineering or other factors result in loss of archaeological deposits, preservation by record will be recommended.

4 Method Statement for Evaluation

Preliminary work

The archaeological project manager in charge of the work will ensure that all constraints to ground works have been identified, including the siting of live services, Tree Preservation Orders and public footpaths.

Evaluation

To ensure good coverage of the enclosure two evaluation trenches and two test pits will be undertaken, located as seen in Fig 1.

Evaluation Trench 1 will be 10m in length an 1.5m in width, location centred on 288360, 331699 to cross the corner of the enclosure

Evaluation Trench 2 will be 5m in length and 2.5m in width, location centred on 288400, 331710 along the northern linear of the enclosure

Test Pit 1 will be 2.5m x 2.5m, location centred on 288382,331706 along the northern linear of the enclosure

Test Pit 2 will be 2.5m x2.5m, location centred on 288415,331714 along the northern linear of the enclosure

The evaluation trenches and test pits will initially be excavated to the top of the archaeological horizon by machine. All mechanical excavation will be undertaken using a toothless bucket. All areas will be hand cleaned using hoes and/or pointing trowels to prove the presence, or absence, of archaeological features and to determine their significance. In each area the excavation of the minimum number of archaeological

features will be undertaken, to elucidate the character, distribution, extent and importance of the archaeological remains. In each area sufficient excavation will be undertaken to ensure that the natural horizons are reached and proven. If safety reasons preclude manual excavation to natural, hand augering may be used to try to assess the total depth of stratification within each area. The depth of the excavation will conform to current safety requirements. If excavation is required below 1.2m the options of using shoring or stepped trenching will be discussed with SNPA.

Recording will be carried out using Archaeology Wales recording systems (pro-forma context sheets etc), using a continuous number sequence for all contexts.

All photographs will be taken with a high resolution (8+ Mega Pixel) digital SLR in RAW format (converted to TIFF and JPEG at highest resolution for archiving and presentation respectively). For both general and specific photographs, a photographic scale shall be included. The photographic record shall be accompanied by a photographic register detailing as a minimum, feature number, location and direction of shot.

Plans and sections will be drawn to a scale of 1:50, 1:20 and 1:10 as required, and these will be related to Ordnance Survey datum and published boundaries where appropriate.

<u>Monitoring</u>

SNPA will be contacted prior to the commencement of ground works, and subsequently once the work is underway.

SNPA will be provided with notice of the start date, a projected timetable and a copy of the Health and Safety Risk Assessment 5 working days prior to the commencement of the work.

Any changes to the specification that the contractor may wish to make after approval will be communicated to SNPA for approval on behalf of the Planning Authority.

SNPA will be given access to the site so that they may monitor the progress of the field evaluation. SNPA will be kept regularly informed about developments, both during the site works and subsequently during post-excavation.

Artefacts

Archaeological artefacts recovered during the course of the excavation will be cleaned and labelled using an accession number which will be obtained from the local museum. A single number sequence will be allocated to all finds. The artefacts will be stored appropriately until they are deposited with the museum.

All artefacts recovered during the project will be retained and related to the contexts from which they were derived. All typologically distinct and closely datable finds will be recorded three-dimensionally.

The evaluation will carefully consider any artefactual or economic information and provide an assessment of the viability, for further study, of such information. It will be particularly important to provide an indication of the relative significance of such material for any subsequent decision-making process regarding mitigation strategies.

Any finds which are considered to be in need of immediate conservation will be referred to a UKIC qualified conservator (Phil Parkes of Cardiff Conservation Services).

A catalogue by context of all artefactual material found, quantified by number, weight, or both, and containing sketches of significant artefacts will be compiled.

Pottery will be analysed to the standards outlined in "Guidelines for the Preparation of Pottery Archives" as prepared by the Study Group for Roman Pottery in consultation with the CIfA. All other material will be analysed following the advice given in the Institute of Field Archaeologists: Guidelines for Finds Work.

The requirements for the conservation of artefacts will be unpredictable until after the completion of the fieldwork. The archaeological contractor will ensure, however, that at least minimum acceptable standards are achieved (the UK Institute of Conservation's Guidelines for the Treatment of Finds from Archaeological Site should be used as guidance).

Environmental and technological samples

Samples will be taken where necessary when significant deposits are located. These will be retained for processing. The level of post-excavation processing will be dependent on the results of the field evaluation and following discussion with an environmental specialist and SNPA.

Any features containing deposits of environmental or technological significance will be sampled. If required, the project manager should arrange, through a suitably qualified expert the assessment of the environmental potential of the site through examination of suitable deposits. The assessment of potential should consider the guidelines set out in the English Heritage publication 'Environmental Archaeology' August 2011.

The requirements for the conservation of samples will be unpredictable until after the completion of the fieldwork. The archaeological contractor will ensure, however, that at least minimum acceptable standards are achieved (the UK Institute of Conservation's Guidelines for the Treatment of Finds from Archaeological Site should be used as guidance).

Human remains

Human remains will be left in situ, covered and protected when discovered. No further investigation should normally be permitted and SNPA and the local Coroner must be informed immediately. After discussion, it may be appropriate to take bone samples for C14 dating. If removal is essential it can only take place under the appropriate Ministry of Justice and Environmental Health regulations.

Conservation

All archaeologically recovered artefacts, building materials, industrial residues, environmental material, biological remains (including human remains) and decay products (collectively referred to as 'finds') will be conserved following the guidelines set out in 'Standard and Guidance for the collection, documentation, conservation and research of archaeological materials' (CIfA, 2014).

Specialists

In the event of certain finds/features etc. being discovered, the site archaeologist may have to seek specialist opinion for assistance. Such specialists will be accessed either internally within AW itself or from an external source. A list of external specialists is given in the table below.

| Туре | Name | Tel No. |
|---------------------------------------|-------------------|--------------------------------|
| Flint | Amelia Pannett | 02920 899509 |
| Animal bone | Jen Kitch | 07739 093712 |
| CBM, heat affected clay, Daub etc. | Rachael Hall | 01305 259751 |
| Clay pipe | Hilary Major | 01376 329316 |
| Glass | Andy Richmond | 01234 888800 |
| Cremated and non-cremated human bone | Malin Holst | 01759 368483 |
| Metalwork | Kevin Leahy | 01652 658261 |
| Neo/BA pottery | Dr Alex Gibson | Bradford University |
| IA/Roman pottery | Jane Timby | 01453 882851 |
| Post Roman pottery | Mr Stephen Clarke | |
| Charcoal (wood ID) | John Carrot | 01388 772167 |
| Waterlogged wood | Nigel Nayling | University of Wales (Lampeter) |
| Molluscs and pollen | Dr James Rackham | 01992 552256 |
| Charred and waterlogged plant remains | Wendy Carruthers | 01443 233466 |

Treasure

If items that may be subject to the Law of Treasure Trove are recovered, the appropriate authorities will be notified, in accordance with The Treasure Act 1996, Code of Practice (2nd revision), England and Wales issues by the Department for Culture Media and Sport.

5. Method statement for the production of an illustrated report and the deposition of the site archive

Report preparation

The report will contain the following:

- A fully representative description of the information gained from the evaluation, even if there should be negative evidence.
- A concise non-technical summary of the project results.
- At least one plan showing the site's location in respect to the local topography, as well as the position of all excavated areas.
- Suitably selected plans and sections of significant archaeological features. All plans and sections should be related to Ordnance Datum.
- Written descriptions of all features and deposits excavated and their considered interpretation.
- A summary report on the artefactual and ecofactual assemblage and an assessment of its potential for further study, prepared by suitably qualified individuals or specialists.
- A statement of the local and regional context of the archaeological remains identified.
- An impact assessment, with mitigation proposals, of the proposed development on the archaeological resource can be considered and presented for consideration. This could include the mapped archaeological potential of the site in relation to the proposed development.

Copies of the report will be sent to the client, the SNPA archaeologist (two hard copies and two on DVD), for the SNPA planning department, and for inclusion in the local

HER (two hard copies and two on DVD) and the National Monuments Record (paper copy and DVD). The DVDs will include the whole digital archive arising from the work including the photographs (as below). Digital copies will also be provided in pdf format.

A summary report of the work will be submitted for publication to a national journal (e.g. Archaeology in Wales) no later than one year after the completion of the work.

The site archive

A project archive will be prepared in accordance with the National Monuments Record (Wales) agreed structure and be deposited within an appropriate local museum on completion of site analysis and report production. It will also conform to the guidelines set out in 'Management of Archaeological Projects Two, Appendix 3' (English Heritage 1991).

Arrangements will be made with the local museum before work starts. Wherever the archive is deposited, this information will be relayed to the HER.

Although there may be a period during which client confidentiality will need to be maintained, the report and the archive will be deposited not later than six months after the completion of the work.

Other significant digital data generated by the survey (i.e. AP plots, EDM surveys, CAD drawings, GIS maps, etc.) will be presented as part of the report on a CD/DVD. The format of this presented data will be agreed with the curator in advance of its preparation.

6. Resources and timetable

Standards

All stages of the project will be undertaken by AW staff using current best practice. All work will be undertaken to the standards and guidelines of the CIfA.

Staff

The project will be undertaken by suitably qualified AW staff. Overall management of the project will be undertaken by Mark Houliston.

<u>Equipment</u>

The project will use existing Archaeology Wales equipment.

Timetable of archaeological works

The start date of works is Monday 20th July 2015.

Insurance

Archaeology Wales is an affiliated member of the CBA, and holds Insurance through the CBA insurance service.

Health and safety

All members of staff will adhere to the requirements of the Health & Safety at Work Act, 1974, and the Health and Safety Policy Statement of Archaeology Wales.

AW will produce a detailed Risk Assessment before any work is undertaken.

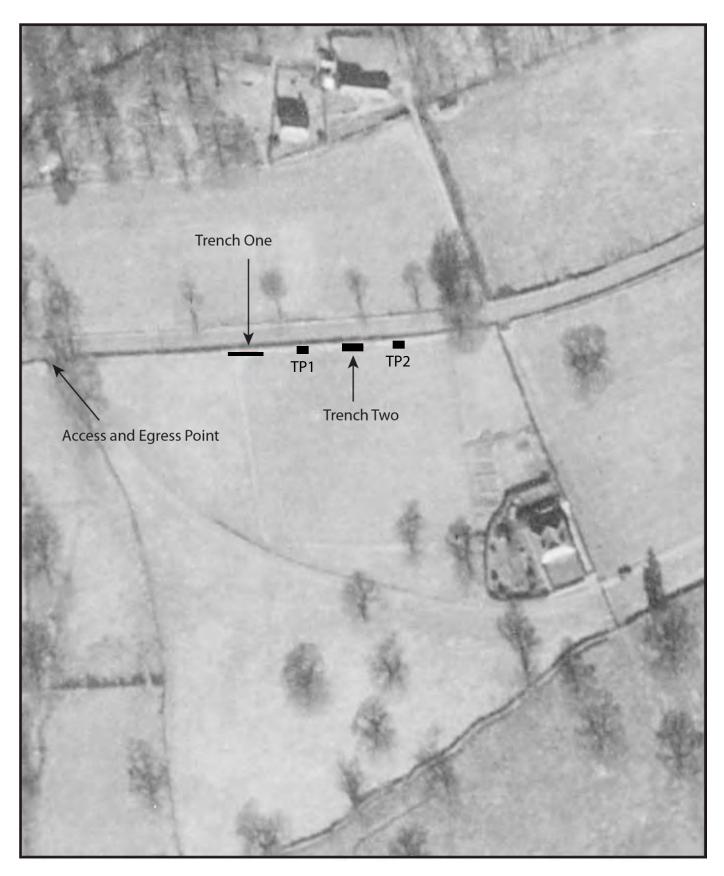


Figure 1. Trench and Test Pit Location Plan