



Tantallon Road, North Berwick, East Lothian
Archaeological Evaluation
Data Structure Report
Project 4540

**Tantallon Road, North Berwick, East Lothian
Archaeological Evaluation
Data Structure Report**

On behalf of: Dandara Limited

Project Number: 4540

Report by: Juan Ignacio De Vicente Ojeda

Illustrations: Jennifer Simonson

Project Manager: Bob Will

| | | | |
|------------------------------|---|------------------------------|---|
| DRAFT 13/02/17 | Bob Will Project Manager | FINAL 13/02/17 | John Atkinson Managing Director |
| |  | |  |

*This document has been prepared in accordance
with GUARD Archaeology Limited standard operating procedures.*

GUARD Archaeology Limited
52 Elderpark Workspace
100 Elderpark Street
Glasgow
G51 3TR

Tel: 0141 445 8800
Fax: 0141 445 3222
email: info@guard-archaeology.co.uk

Contents

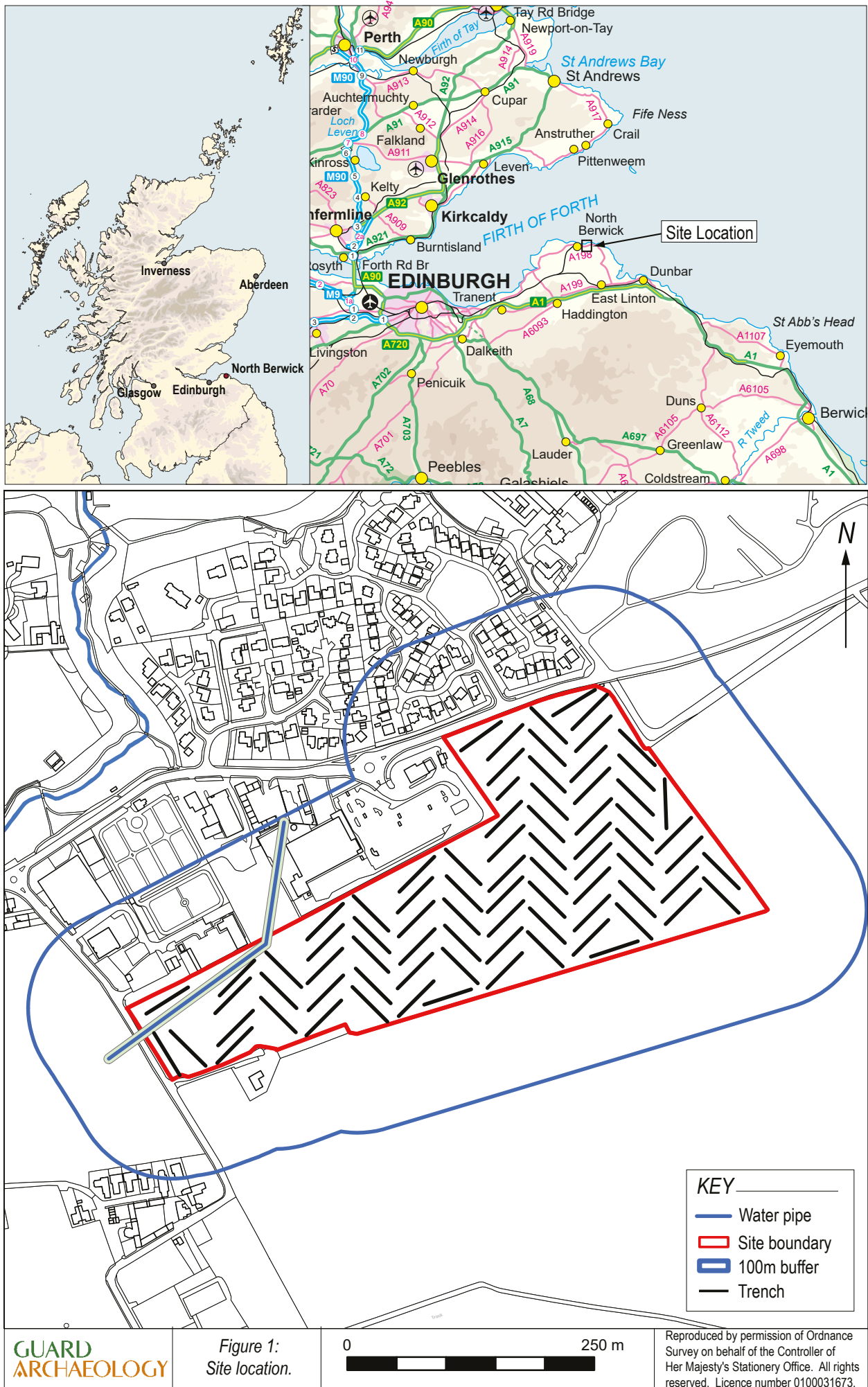
| | |
|---|----|
| Executive Summary | 5 |
| Introduction | 5 |
| Site Location, Topography and Geology | 5 |
| Archaeological Background | 5 |
| Aims and Objectives | 5 |
| Methodology | 6 |
| Results | 7 |
| Discussion | 7 |
| Conclusions | 7 |
| Acknowledgements | 8 |
| Appendices | 10 |
| Appendix A: Trench Details | 10 |
| Appendix B: List of Contexts | 13 |
| Appendix C: List of Photographs | 14 |
| Appendix D: Discovery and Excavation Scotland Entry | 19 |
| Appendix E: Written Scheme of Investigation | 20 |

List of Figures

| | |
|-------------------------|---|
| Figure 1: Site location | 4 |
|-------------------------|---|

List of Plates

| | |
|--|---|
| Plate 1: General view of trenches | 7 |
| Plate 2: Tr39 section | 7 |
| Plate 3: Repaired field drain trench 1 | 7 |



Executive Summary

- 1.1 An archaeological evaluation was carried out by GUARD Archaeology Limited, on behalf of Dandara Limited on an area proposed for development at Tantallon Road, North Berwick. The trial trench evaluation of 8% (8,000 m²) of the total accessible area proposed for development (10 ha). No significant archaeological features were encountered during the evaluation. The work was undertaken between 10th and 19th January 2017.

Introduction

- 2.1 This report sets out the results of an archaeological evaluation undertaken by GUARD Archaeology, on behalf of Dandara Limited on a site proposed for the development at Tantallon Road, North Berwick. During the course of the evaluation a total of 8,000 square metres of trenching was undertaken, spread over 80 individual trenches arranged in a herring bone pattern across the site. Weather conditions for the evaluation were cold, windy but clear each day.

Site Location, Topography and Geology

- 3.1 The proposed development location lies. The development area covers approximately 10 hectares and sits between 54 and 37 AOD.
- 3.2 The site is bounded by Tantallon Road, a supermarket, and industrial buildings to the north, by Heugh Road to the west, and by enclosed fields to the east and south. and slopes down from south and south-west to the north and north-west (Figure 1). The development area has recently been used for growing grain and is presently covered in straw stubble.

Archaeological Background

- 4.1 A desk based assessment undertaken by GUARD Archaeology indicates that there is one known cultural heritage site within the proposed development area, Loan farmstead located near the north-west corner of the field, which could date to the eighteenth century but was demolished by 1854. Within the 100 m buffer zone around the proposed development area there is a building on Tantallon Road known as Horse Crook Mill which originated as a waukmill in the eighteenth century. Neither of these sites has statutory or non-statutory designation. Lithics noted during the walkover survey may indicate prehistoric activity within or adjacent to the proposed development. Cartographic regression work indicates that the proposed development area has been agricultural land from at least the mid-eighteenth century onwards, and that, aside from a farm in the extreme south-west corner, no previous development of the Site has taken place. Given that this land has not previously been developed, and that there may have been prehistoric activity within the proposed development area, there is potential for the survival of hitherto undiscovered sub-surface archaeological remains.

Aims and Objectives

- 5.1 The aims of the archaeological works were to:
- evaluate the presence, nature, significance and extent of any archaeological features within the development area, specifically focused on the two known archaeological sites.
- 5.2 The objectives are therefore to:
- Conduct an archaeological evaluation to evaluate the presence or absence of any archaeological remains, and their character, date and extent if surviving;
 - Submit a report to data structure level for agreement to ELCAS on completion of the evaluation;
 - Submit, if excavation or post-excavation works are required, an accompanying project design and costing alongside the data structure report, which will outline arrangements for further excavation or post-excavation works.

Methodology

- 6.1 All elements of the evaluation were undertaken in line with the following policies and guidelines of the Chartered Institute for Archaeologists (CIfA) of which GUARD Archaeology Ltd is a Registered Organisation.
- By-laws: Code of Conduct (2014);
 - Standard and Guidance for archaeological field evaluation (2014).
- 6.2 A GUARD Archaeologist photographed the development area and make a brief written description prior to the commencement of ground-breaking works.
- 6.3 The course of any existing services were surveyed and a minimum three metre buffer zone either side of each known service was established.
- 6.4 Trenches were located to provide good coverage across the development site. Initially the machine removed the vegetation/straw stubble to expose the ground surface for the identification and recovery of lithics and other artefacts. If concentrations of lithics were noted an area up to 10 m by 10 m would be stripped of vegetation. Approximately a third (27) of the trenches were scraped of vegetation as a first step to recover lithics. None were recovered.
- 6.5 The machine excavation of trenches amounting to 8% of the 10 ha development then followed and were supervised at all times by an experienced GUARD Archaeologist. The evaluation trenches comprised 80 trenches each 50 m long and 2 m wide amounting to 8,000 m² in total (Figure 1). The original plan was to excavated 82 trenches but the trench layout was amended to avoid a water pipe in the north-west corner of the field and the number of trenches reduced accordingly to reflect the smaller accessible area.
- 6.6 The machine excavator was fitted with a c 2 m wide flat-bladed (toothless) ditching bucket.
- 6.7 The topsoil at each trench location was removed in spits to the first archaeological horizon or, where none was found, to the natural subsoil. Any archaeological features encountered were cleaned by hand by the on-site Archaeologists to determine their character and extent.
- 6.8 All potential archaeological features encountered during the trenching were investigated by the on-site Archaeologists. A full record of excavated features was made using a single context planning system using pro forma sheets, drawings and photographs. All trenches were accurately located within the National Grid.
- 6.9 A representative section was recorded for each trench denoting depth of topsoil, any stratigraphy present and the nature of the soil. This information was logged in the day book/proforma trench sheets together with a sketch drawn to scale and a photographic record of deposits.
- 6.10 Each trench was accurately surveyed using a Total Station or GPS and has been tied into the Ordnance Survey Grid.
- 6.11 On completion of all the evaluation trenches, the backfilling of trenches was undertaken by machine. No specialist backfilling was undertaken nor was the backfilling of trenches be supervised by the on-site archaeologist. After conclusion of excavations and investigation, the plant operator backfilled 50% of track depth (i.e. 250 mm of 500 mm trench) with excavated material and consolidate thoroughly with bottom edge of batter blade bucket. They then placed the remaining excavated material in trench to a height of approximately 5-10 mm above existing ground level and use the machine excavator to track over trench, consolidating both layers to match the existing ground level. Any soft spots or hollows were then filled and tracked in and the site left tidy on completion.
- 6.12 Two ceramic field drains were broken during the course of the evaluation and were repaired using sections of plastic drainage pipe of the appropriate diameter.

Results

- 7.1 The straw stubble/vegetation was carefully removed by machine from 27 of the trenches for the recovery of artefacts as flints had been noted on the surface of the field during the initial walk-over survey. No flints were recovered from the exposed topsoil surface during this exercise. A number of modern artefacts ceramics and glass were noted but not retained.
- 7.2 During the course of the evaluation no features of archaeological significance were encountered. 80 trenches were excavated, totalling 8,000 square metres, the results of which are set out in Appendices A and B. For the majority of the area trenches revealed that the topsoil consisted of a dark greyish brown silty loam 0.35 m thick with inclusions of stones up to 0.25 m in diameter, and a brown/grey/orange silty clay subsoil with occasional sub-rounded large stones.
- 7.3 During the trench evaluation, no artefacts were recovered from topsoil or subsoil and no archaeological features were uncovered within the trenches.



Plate 1: General view of trenches.



Plate 2: Tr39 section.



Plate 3: Repaired field drain trench 1.

Discussion

- 8.1 The present evaluation trenching uncovered no features or artefacts of archaeological interest except evidence of agricultural improvement in the form of the remains of field drains (ceramic pipe).

Conclusions

- 9.1 The evaluation work has demonstrated that no archaeologically sensitive deposits or features exist within the development area. In consequence, it is advised that no further archaeological work may be required.
- 9.2 GUARD Archaeology Limited would stress that these recommendations are intended for guidance only and the final decisions on the nature and extent of any further archaeological work rests with ELCAS and the Planning Authority.

- 9.3 The online OASIS form at <http://ads.ahds.ac.uk/project/oasis/> (OASIS Reference: guardarc1-275556) will be completed within 3 months. Once the Data Structure Report has become a public document by submission to or incorporation into the SMR, East Lothian Council Archaeology Service will validate the OASIS form thus placing the information into the public domain on the OASIS website. Similarly a summary of the project result will be submitted to Discovery and Excavation in Scotland (DES), a copy of this is attached in Appendix D.

Acknowledgements

- 10.1 GUARD would like to thank Dandara Limited for their assistance. Plant and drivers were supplied by Dagg Plant. Technical support was from Lucy Shrinkfield. A survey of trench locations was conducted by Dave McNicol. The illustrations were produced by Gillian Sneddon. The report was desk top published by Gillian Sneddon. The project was managed for GUARD by Bob Will.

**Tantallon Road, North Berwick, East Lothian
Archaeological Evaluation
Data Structure Report**

Section 2: Appendices



www.guard-archaeology.co.uk

Appendices

Appendix A: Trench Details

| Tr No | Length (m) | Width (m) | Depth (m) | Topsoil/Overburden | Subsoil | Details |
|-------|------------|-----------|-----------|---|---|---|
| 1 | 50 | 2.1 | 0.7 | 20-30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints. Field drain along W section. Drain pipe at N end. |
| 2 | 50 | 2.1 | 0.4 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 3 | 50 | 2.1 | 0.4 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 4 | 50 | 2.1 | 0.45 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 5 | 50 | 2.1 | 0.5 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 6 | 50 | 2.1 | 0.34 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 7 | 50 | 2.1 | 0.35 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 8 | 50 | 2.1 | 0.35 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 9 | 50 | 2.1 | 0.32 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 10 | 50 | 2.1 | 0.35 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 11 | 50 | 2.1 | 0.4 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 12 | 50 | 2.1 | 0.36 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Rubble drain, located 13.4m from SE end of trench |
| 13 | 50 | 2.1 | 0.34 | 28cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 14 | 50 | 2.1 | 0.32 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 15 | 50 | 2.1 | 0.36 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 16 | 50 | 2.1 | 0.34 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 17 | 50 | 2.1 | 0.3 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 18 | 50 | 2.1 | 0.36 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 19 | 50 | 2.1 | 0.32 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |

| Tr No | Length (m) | Width (m) | Depth (m) | Topsoil/Overburden | Subsoil | Details |
|-------|------------|-----------|-----------|--|---|--|
| 20 | 50 | 2.1 | 0.35 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 21 | 50 | 2.1 | 0.3 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 22 | 50 | 2.1 | 0.33 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 23 | 50 | 2.1 | 0.33 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 24 | 50 | 2.1 | 0.32 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 25 | 50 | 2.1 | 0.36 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 26 | 50 | 2.1 | 0.32 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 27 | 50 | 2.1 | 0.3 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 28 | 50 | 2.1 | 0.37 | 35cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 29 | 50 | 2.1 | 0.35 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 30 | 50 | 2.1 | 0.32 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 31 | 50 | 2.1 | 0.31 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 32 | 50 | 2.1 | 0.3 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 33 | 50 | 2.1 | 0.35 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 34 | 50 | 2.1 | 0.31 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 35 | 50 | 2.1 | 0.36 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 36 | 50 | 2.1 | 0.43 | 35cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 37 | 50 | 2.1 | 0.38 | 35cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 38 | 50 | 2.1 | 0.32 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 39 | 50 | 2.1 | 0.36 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 40 | 50 | 2.1 | 0.34 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |

| Tr No | Length (m) | Width (m) | Depth (m) | Topsoil/Overburden | Subsoil | Details |
|-------|------------|-----------|-----------|--|---|--|
| 41 | 50 | 2.1 | 0.3 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 42 | 50 | 2.1 | 0.3 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 43 | 50 | 2.1 | 0.32 | 28cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 44 | 50 | 2.1 | 0.32 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 45 | 50 | 2.1 | 0.55 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 46 | 50 | 2.1 | 0.33 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 47 | 50 | 2.1 | 0.22 | 21cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 48 | 50 | 2.1 | 0.42 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints. Field drain along W edge of trench |
| 49 | 50 | 2.1 | 0.33 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 50 | 50 | 2.1 | 0.37 | 34cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 51 | 50 | 2.1 | 0.32 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 52 | 50 | 2.1 | 0.4 | 36cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 53 | 50 | 2.1 | 0.37 | 32cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 54 | 50 | 2.1 | 0.34 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 55 | 50 | 2.1 | 0.35 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 56 | 50 | 2.1 | 0.38 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 57 | 50 | 2.1 | 0.35 | 32cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 58 | 50 | 2.1 | 0.34 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 59 | 50 | 2.1 | 0.35 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 60 | 50 | 2.1 | 0.3 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 61 | 50 | 2.1 | 0.34 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |

| Tr No | Length (m) | Width (m) | Depth (m) | Topsoil/Overburden | Subsoil | Details |
|-------|------------|-----------|-----------|--|---|--|
| 62 | 50 | 2.1 | 0.32 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 63 | 50 | 2.1 | 0.33 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 64 | 50 | 2.1 | 0.34 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 65 | 50 | 2.1 | 0.33 | 32cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 66 | 50 | 2.1 | 0.33 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 67 | 50 | 2.1 | 0.3 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 68 | 50 | 2.1 | 0.32 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 69 | 50 | 2.1 | 0.32 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 70 | 50 | 2.1 | 0.32 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 71 | 50 | 2.1 | 0.32 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 72 | 50 | 2.1 | 0.35 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 73 | 50 | 2.1 | 0.29 | 29cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 74 | 50 | 2.1 | 0.34 | 28cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 75 | 50 | 2.1 | 0.32 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 76 | 50 | 2.1 | 0.36 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 77 | 50 | 2.1 | 0.32 | 28cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 78 | 50 | 2.1 | 0.31 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | Stubble scraped back to check for flints |
| 79 | 50 | 2.1 | 0.3 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |
| 80 | 50 | 2.1 | 0.36 | 30cm, Mid brown silty loam, mid-loose compaction, some medium stones (7-15cm). | Orange-grey-brown clay, firm compaction, medium-large stones 20-35cm+ | - |

Appendix B: List of Contexts

| Context No | Area | Description | Interpretation |
|------------|------|---|----------------|
| 001 | - | Mid brown silty loam, 30-35 cm, stones ranging between 5cm-25cm, ploughed agricultural field. Machine excavated | Top soil |
| 002 | - | Brown-orange-grey clay, large stones 35cm+. Machine excavated | Subsoil |

Appendix C: List of Photographs

| Film No. | 001 | | | |
|----------|--------|-------------|--------------------------------------|------------|
| Frame | Area | Context No. | Subject | Taken from |
| 1 | - | - | ID shot | - |
| 2 | - | - | General shot of field pre-ex | S |
| 3 | Tr.1 | (001) (002) | W facing section TR.1 | W |
| 4 | Tr.1 | - | Damaged field drain | E |
| 5 | Tr.1 | - | Damaged field drain | E |
| 6 | Tr.1 | (001) (002) | SW facing section Tr. 0 | SW |
| 7 | Tr. 2 | (001) (002) | S facing section Tr.2 | S |
| 8 | Tr. 1 | - | General shot fixed field drain pipe | E |
| 9 | Tr. 45 | (001) (002) | NE facing section Tr. 45 | NE |
| 10 | Tr. 4 | (001) (002) | W facing section tr. 4 | W |
| 11 | Tr. 3 | (001) (002) | N facing section Tr. 3 | N |
| 12 | Tr. 46 | (001) (002) | SW facing section Tr. 46 | SW |
| 13 | Tr. 47 | - | Trench & ID shot | - |
| 14 | Tr. 47 | (001) (002) | N facing section Tr. 47 | N |
| 15 | Tr. 6 | - | Trench & ID shot | - |
| 16 | Tr. 6 | (001) (002) | W facing section Tr. 6 | W |
| 17 | Tr. 5 | - | Trench & ID shot | - |
| 18 | Tr. 5 | - | SW facing section Tr. 5 | SW |
| 19 | Tr. 5 | (001) (002) | SW facing section Tr. 5 | SW |
| 20 | Tr. 8 | - | Trench & ID shot | - |
| 21 | Tr. 8 | (001) (002) | SE facing section Tr. 8 | SE |
| 22 | Tr. 48 | - | Trench & ID shot | - |
| 23 | Tr. 48 | (001) (002) | E facing section Tr. 48 | E |
| 24 | Tr. 48 | - | General shot broken field drain pipe | SE |
| 25 | Tr. 48 | - | General shot fixed field drain pipe | SE |
| 26 | Tr. 49 | - | Trench & ID shot | - |
| 27 | Tr. 49 | (001) (002) | S facing section Tr. 49 | S |
| Film No. | 2 | | | |
| Frame | Area | Context No. | Subject | Taken from |
| 1 | - | - | ID shot | - |
| 2 | Tr. 7 | (001) (002) | S facing section Tr. 7 | S |
| 3 | Tr. 50 | - | Trench & ID shot | - |
| 4 | Tr. 50 | (001) (002) | S facing section Tr. 50 | S |
| 5 | Tr. 9 | - | Trench & ID shot | - |
| 6 | Tr. 9 | (001) (002) | S facing section Tr. 9 | S |
| 7 | Tr. 51 | - | Trench & ID shot | - |
| 8 | Tr. 51 | (001) (002) | W facing section Tr. 50 | W |
| 9 | Tr. 34 | - | Trench & ID shot | - |
| 10 | Tr. 34 | (001) (002) | SW facing section Tr. 34 | SW |
| 11 | Tr. 34 | (001) (002) | SW facing section Tr. 34 | SW |
| 12 | Tr. 52 | - | Trench & ID shot | - |
| 13 | Tr. 52 | (001) (002) | W facing section Tr. 52 | W |
| 14 | Tr. 33 | - | Trench & ID shot | - |
| 15 | Tr. 33 | (001) (002) | W facing section Tr. 33 | W |
| 16 | Tr. 36 | - | Trench & ID shot | - |
| 17 | Tr. 36 | (001) (002) | S facing section Tr. 36 | W |
| 18 | Tr. 53 | - | Trench & ID shot | - |
| 19 | Tr. 53 | (001) (002) | N facing section Tr. 53 | N |
| 20 | Tr. 35 | - | Trench & ID shot | - |
| 21 | Tr. 35 | (001) (002) | W facing section Tr. 35 | W |
| 22 | Tr. 54 | - | Trench & ID shot | - |
| 23 | Tr. 54 | (001) (002) | W facing section Tr. 54 | W |

| Frame | Area | Context No. | Subject | Taken from |
|-----------------|----------|-------------|------------------------------|------------|
| 25 | Tr. 55 | - | Trench & ID shot | - |
| 26 | Tr. 55 | (001) (002) | N facing section Tr. 55 | N |
| 27 | Tr. 37 | - | Trench & ID shot | - |
| 28 | Tr. 37 | (001) (002) | N facing section Tr. 37 | N |
| 29 | - | - | void | - |
| Film No. | 3 | | | |
| Frame | Area | Context No. | Subject | Taken from |
| 1 | - | - | ID shot | - |
| 2 | Tr. 56 | - | Trench & ID shot | - |
| 3 | Tr. 56 | (001) (002) | S facing section Tr. 56 | S |
| 4 | Tr. 13 | - | Trench & ID shot | - |
| 5 | Tr. 13 | (001) (002) | NE facing section Tr. 13 | NE |
| 6 | Tr. 10 | - | Trench & ID shot | - |
| 7 | Tr. 10 | (001) (002) | E facing section Tr. 10 | E |
| 8 | Tr. 57 | - | Trench & ID shot | - |
| 9 | Tr. 57 | (001) (002) | SW facing section Tr. 57 | SW |
| 10 | Tr. 11 | - | Trench & ID shot | - |
| 11 | Tr. 11 | (001) (002) | SW facing section Tr. 11 | SW |
| 12 | Tr. 58 | - | Trench & ID shot | - |
| 13 | Tr. 58 | (001) (002) | SW facing section Tr. 58 | SW |
| 14 | Tr. 12 | - | Trench & ID shot | - |
| 15 | Tr. 12 | - | General shot modern dry fill | SW |
| 16 | Tr. 12 | - | General shot modern dry fill | SW |
| 17 | Tr. 12 | (001) (002) | SW facing section Tr. 12 | SW |
| 18 | Tr. 59 | - | Trench & ID shot | - |
| 19 | Tr. 59 | (001) (002) | S facing section Tr. 59 | S |
| 20 | Tr. 38 | - | Trench & ID shot | - |
| 21 | Tr. 38 | (001) (002) | N facing section Tr. 38 | N |
| 22 | Tr. 60 | - | Trench & ID shot | - |
| 23 | Tr. 60 | (001) (002) | S facing section Tr. 60 | S |
| 24 | Tr. 39 | - | Trench & ID shot | - |
| 25 | Tr. 39 | (001) (002) | S facing section Tr. 39 | S |
| 26 | Tr. 61 | - | Trench & ID shot | - |
| 27 | Tr. 61 | (001) (002) | N facing section Tr. 61 | N |
| Film No. | 4 | | | |
| Frame | Area | Context No. | Subject | Taken from |
| 1 | - | - | ID shot | - |
| 2 | Tr. 40 | - | Trench & ID shot | - |
| 3 | Tr. 40 | (001) (002) | S facing section Tr. 40 | S |
| 4 | Tr. 62 | - | Trench & ID shot | - |
| 5 | Tr. 62 | (001) (002) | S facing section Tr. 62 | S |
| 6 | Tr. 63 | - | Trench & ID shot | - |
| 7 | Tr. 63 | (001) (002) | W facing section Tr. 63 | W |
| 8 | Tr. 2 | - | Trench & ID shot | - |
| 9 | Tr. 2 | (001) (002) | S facing section Tr. 2 | S |
| 10 | Tr. 3 | - | Trench & ID shot | - |
| 11 | Tr. 3 | (001) (002) | N facing section Tr. 3 | N |
| 12 | Tr. 46 | - | Trench & ID shot | - |
| 13 | Tr. 46 | (001) (002) | N facing section Tr. 46 | N |
| 14 | Tr. 4 | - | Trench & ID shot | - |
| 15 | Tr. 4 | (001) (002) | N facing section Tr. 4 | N |
| 16 | Tr. 47 | - | Trench & ID shot | - |
| 17 | Tr. 47 | (001) (002) | S facing section Tr. 47 | S |
| 18 | Tr. 6 | - | Trench & ID shot | - |
| 19 | Tr. 6 | (001) (002) | W facing section Tr. 6 | W |

| Frame | Area | Context No. | Subject | Taken from |
|----------|--------|-------------|--------------------------|------------|
| 20 | Tr. 48 | - | Trench & ID shot | - |
| 21 | Tr. 48 | (001) (002) | SE facing section Tr. 48 | SE |
| 22 | Tr. 5 | - | Trench & ID shot | - |
| 23 | Tr. 5 | (001) (002) | W facing section Tr. 5 | W |
| 24 | Tr. 9 | - | Trench & ID shot | - |
| 25 | Tr. 9 | (001) (002) | S facing section Tr. 9 | S |
| 26 | Tr. 50 | - | Trench & ID shot | - |
| 27 | Tr. 50 | (001) (002) | S facing section Tr. 50 | S |
| 28 | Tr. 7 | - | Trench & ID shot | - |
| 29 | Tr. 7 | (001) (002) | S facing section Tr. 7 | S |
| 30 | Tr. 49 | - | Trench & ID shot | - |
| 31 | Tr. 49 | (001) (002) | N facing section Tr. 49 | N |
| 32 | Tr. 8 | - | Trench & ID shot | - |
| 33 | Tr. 8 | (001) (002) | S facing section Tr. 8 | S |
| 34 | Tr. 51 | - | Trench & ID shot | - |
| 35 | Tr. 51 | (001) (002) | W facing section Tr. 51 | W |
| 36 | Tr. 34 | - | Trench & ID shot | - |
| 37 | Tr. 34 | (001) (002) | W facing section Tr. 34 | W |
| 38 | Tr. 52 | - | Trench & ID shot | - |
| 39 | Tr. 52 | (001) (002) | E facing section Tr. 52 | E |
| 40 | Tr. 33 | - | Trench & ID shot | - |
| 41 | Tr. 33 | (001) (002) | E facing section Tr. 33 | E |
| 42 | Tr. 33 | (001) (002) | E facing section Tr. 33 | E |
| 43 | Tr. 53 | - | Trench & ID shot | - |
| 44 | Tr. 53 | (001) (002) | W facing section Tr. 53 | W |
| 45 | Tr. 56 | - | Trench & ID shot | - |
| 46 | Tr. 56 | (001) (002) | S facing section Tr. 56 | - |
| Film No. | 5 | | | |
| Frame | Area | Context No. | Subject | Taken from |
| 1 | - | - | ID shot | - |
| 2 | Tr. 37 | - | Trench & ID shot | - |
| 3 | Tr. 37 | (001) (002) | N facing section Tr. 37 | N |
| 4 | Tr. 55 | - | Trench & ID shot | - |
| 5 | Tr. 55 | (001) (002) | N facing section Tr. 55 | N |
| 6 | Tr. 35 | - | Trench & ID shot | - |
| 7 | Tr. 35 | (001) (002) | N facing section Tr. 35 | N |
| 8 | Tr. 53 | - | Trench & ID shot | - |
| 9 | Tr. 53 | (001) (002) | N facing section Tr. 53 | N |
| 10 | Tr. 36 | - | Trench & ID shot | - |
| 11 | Tr. 36 | (001) (002) | N facing section Tr. 36 | N |
| 12 | Tr. 13 | - | Trench & ID shot | - |
| 13 | Tr. 13 | (001) (002) | NE facing section Tr. 13 | NE |
| 14 | Tr. 10 | - | Trench & ID shot | - |
| 15 | Tr. 10 | (001) (002) | E facing section Tr. 10 | E |
| 16 | Tr. 57 | - | Trench & ID shot | - |
| 17 | Tr. 57 | (001) (002) | W facing section Tr. 57 | W |
| 18 | Tr. 11 | - | Trench & ID shot | - |
| 19 | Tr. 11 | (001) (002) | W facing section Tr. 11 | W |
| 20 | Tr. 58 | - | Trench & ID shot | - |
| 21 | Tr. 58 | (001) (002) | W facing section Tr. 58 | W |
| 22 | Tr. 12 | - | Trench & ID shot | - |
| 23 | Tr. 12 | (001) (002) | W facing section Tr. 12 | W |
| 24 | Tr. 61 | - | Trench & ID shot | - |
| 25 | Tr. 61 | (001) (002) | N facing section Tr. 61 | N |
| 26 | Tr. 39 | - | Trench & ID shot | - |

| Frame | Area | Context No. | Subject | Taken from |
|----------|--------|-------------|-------------------------|------------|
| 27 | Tr. 39 | (001) (002) | S facing section Tr. 39 | S |
| 28 | Tr. 60 | - | Trench & ID shot | - |
| 29 | Tr. 60 | (001) (002) | N facing section Tr. 60 | N |
| 30 | Tr. 38 | - | Trench & ID shot | - |
| 31 | Tr. 38 | (001) (002) | N facing section Tr. 38 | N |
| 32 | Tr. 59 | - | Trench & ID shot | - |
| 33 | Tr. 59 | (001) (002) | N facing section Tr. 59 | N |
| 34 | Tr. 19 | - | Trench & ID shot | - |
| 35 | Tr. 19 | (001) (002) | W facing section Tr. 19 | W |
| 36 | Tr. 64 | - | Trench & ID shot | - |
| 37 | Tr. 64 | (001) (002) | E facing section Tr. 64 | E |
| 38 | Tr. 18 | - | Trench & ID shot | - |
| 39 | Tr. 18 | (001) (002) | W facing section Tr. 18 | W |
| 40 | Tr. 65 | - | Trench & ID shot | - |
| 41 | Tr. 65 | (001) (002) | W facing section Tr. 65 | W |
| 42 | Tr. 16 | - | Trench & ID shot | - |
| 43 | Tr. 16 | (001) (002) | W facing Section Tr. 16 | W |
| Film No. | 6 | | | |
| Frame | Area | Context No. | Subject | Taken from |
| 1 | - | - | ID shot | - |
| 2 | Tr. 30 | - | Trench & ID shot | - |
| 3 | Tr. 30 | (001) (002) | E facing section Tr. 30 | E |
| 4 | Tr. 22 | - | Trench & ID shot | - |
| 5 | Tr. 22 | (001) (002) | N facing section Tr. 22 | N |
| 6 | Tr. 66 | - | Trench & ID shot | - |
| 7 | Tr. 20 | - | Trench & ID shot | - |
| 8 | Tr. 20 | (001) (002) | N facing section Tr. 20 | N |
| 9 | Tr. 67 | - | Trench & ID shot | - |
| 10 | Tr. 67 | (001) (002) | N facing section Tr. 67 | N |
| 11 | Tr. 21 | - | Trench & ID shot | - |
| 12 | Tr. 21 | (001) (002) | N facing section Tr. 21 | N |
| 13 | Tr. 74 | - | Trench & ID shot | - |
| 14 | Tr. 74 | (001) (002) | S facing section Tr. 74 | S |
| 15 | Tr. 73 | - | Trench & ID shot | - |
| 16 | Tr. 73 | (001) (002) | W facing section Tr. 73 | W |
| 17 | Tr. 26 | - | Trench & ID shot | - |
| 18 | Tr. 26 | (001) (002) | W facing section Tr. 26 | W |
| 19 | Tr. 71 | - | Trench & ID shot | - |
| 20 | Tr. 71 | (001) (002) | W facing section Tr. 71 | W |
| 21 | Tr. 27 | - | Trench & ID shot | - |
| 22 | Tr. 27 | (001) (002) | E facing section Tr. 27 | E |
| 23 | Tr. 68 | - | Trench & ID shot | - |
| 24 | Tr. 68 | (001) (002) | E facing section Tr. 68 | E |
| 25 | Tr. 69 | - | Trench & ID shot | - |
| 26 | Tr. 69 | (001) (002) | N facing section Tr. 69 | N |
| Film No. | 7 | | | |
| Frame | Area | Context No. | Subject | Taken from |
| 1 | - | - | ID shot | - |
| 2 | Tr. 70 | - | Trench & ID shot | - |
| 3 | Tr. 70 | (001) (002) | W facing section Tr. 70 | W |
| 4 | Tr. 32 | - | Trench & ID shot | - |
| 5 | Tr. 32 | (001) (002) | W facing section Tr. 32 | W |
| 6 | Tr. 44 | - | Trench & ID shot | - |
| 7 | Tr. 44 | (001) (002) | N facing section Tr. 44 | N |
| 8 | Tr. 72 | - | Trench & ID shot | - |

| Frame | Area | Context No. | Subject | Taken from |
|----------|-----------|-------------|---|------------|
| 9 | Tr. 72 | (001) (002) | N facing section Tr. 72 | N |
| 10 | Tr. 43 | - | Trench & ID shot | - |
| 11 | Tr. 43 | (001) (002) | S facing section Tr. 43 | S |
| 12 | Tr. 31 | - | Trench & ID shot | - |
| 13 | Tr. 31 | (001) (002) | N facing section Tr. 31 | N |
| 14 | Tr. 29 | - | Trench & ID shot | - |
| 15 | Tr. 29 | (001) (002) | W facing section Tr. 29 | W |
| 16 | Tr. 76 | - | Trench & ID shot | - |
| 17 | Tr. 76 | (001) (002) | E facing section Tr. 76 | E |
| 18 | Tr. 28 | - | Trench & ID shot | - |
| 19 | Tr. 28 | (001) (002) | E facing section Tr. 28 | E |
| 20 | Tr. 23 | - | Trench & ID shot | - |
| 21 | Tr. 23 | (001) (002) | N facing section Tr. 23 | N |
| 22 | Tr. 77 | - | Trench & ID shot | - |
| 23 | Tr. 77 | (001) (002) | N facing section Tr. 77 | N |
| 24 | S corner | - | General shot showing excavated trenches | S |
| 25 | S corner | - | General shot showing excavated trenches | S |
| 26 | S centre | - | General shot showing excavated trenches | SE |
| 27 | S centre | - | General shot showing excavated trenches | SE |
| 28 | SW corner | - | General shot showing excavated trenches | SW |
| Film No. | 8 | | | |
| Frame | Area | Context No. | Subject | Taken from |
| 1 | - | - | ID shot | - |
| 2 | Tr. 24 | - | Trench & ID shot | - |
| 3 | Tr. 24 | (001) (002) | N facing section Tr. 24 | N |
| 4 | Tr. 78 | - | Trench & ID shot | - |
| 5 | Tr. 78 | (001) (002) | N facing section Tr. 78 | N |
| 6 | Tr. 25 | - | Trench & ID shot | - |
| 7 | Tr. 25 | (001) (002) | S facing section Tr. 25 | S |
| 8 | NE corner | - | General shot showing excavated trenches | NE |
| 9 | Tr. 75 | - | Trench & ID shot | - |
| 10 | Tr. 75 | (001) (002) | W facing section Tr. 75 | W |
| 11 | Tr. 17 | - | Trench & ID shot | - |
| 12 | Tr. 17 | (001) (002) | W facing section Tr. 17 | W |
| 13 | Tr. 42 | - | Trench & ID shot | - |
| 14 | Tr. 42 | (001) (002) | E facing section Tr. 42 | E |
| 15 | Tr. 79 | - | Trench & ID shot | - |
| 16 | Tr. 79 | (001) (002) | W facing section Tr. 79 | W |
| 17 | Tr. 14 | - | Trench & ID shot | - |
| 18 | Tr. 14 | (001) (002) | N facing section Tr. 14 | N |
| 19 | Tr. 41 | - | Trench & ID shot | - |
| 20 | Tr. 41 | (001) (002) | N facing section Tr. 41 | N |
| 21 | Tr. 80 | - | Trench & ID shot | - |
| 22 | Tr. 80 | (001) (002) | N facing section Tr. 80 | N |
| 23 | Tr. 15 | - | Trench & ID shot | - |
| 24 | Tr. 15 | (001) (002) | N facing section Tr. 15 | N |
| 25 | - | - | General shot showing excavated trenches | N |
| 26 | - | - | General shot showing excavated trenches | N |

Appendix D: Discovery and Excavation Scotland Entry

| | |
|--|---|
| LOCAL AUTHORITY: | East Lothian |
| PROJECT TITLE/SITE NAME: | Tantallon Road, North Berwick, East Lothian, Archaeological Evaluation |
| PROJECT CODE: | 4540 |
| PARISH: | North Berwick |
| NAME OF CONTRIBUTOR(S): | Juan Ignacio De Vincente Ojeda |
| NAME OF ORGANISATION: | GUARD Archaeology Ltd |
| TYPE(S) OF PROJECT: | Archaeological Evaluation |
| NMRS NO(S): | -- |
| SITE/MONUMENT TYPE(S): | -- |
| SIGNIFICANT FINDS: | -- |
| NGR (2 letters, 6 figures) | NT 56604 84591 |
| START DATE (this season) | 10 th January 2017 |
| END DATE (this season) | 19 th January 2017 |
| PREVIOUS WORK (incl. <i>DES</i> ref.) | |
| MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields) | An archaeological evaluation was carried out by GUARD Archaeology Limited on an area proposed for development at Tantallon Road, North Berwick. The trial trench evaluation of 8% (8,000 m ²) of the total accessible area proposed for development (10 ha). No significant archaeological features were encountered during the evaluation. |
| PROPOSED FUTURE WORK: | None |
| SPONSOR OR FUNDING BODY: | Dandara Limited |
| CAPTION(S) FOR ILLUSTRS: | -- |
| ADDRESS OF MAIN CONTRIBUTOR: | 52 Elderpark Workspace, 100 Elderpark Street, Glasgow, G51 3TR |
| EMAIL ADDRESS: | Bob.will@guard-archaeology.co.uk |
| ARCHIVE LOCATION (intended/deposited) | Archive will be deposited with the NMRS |

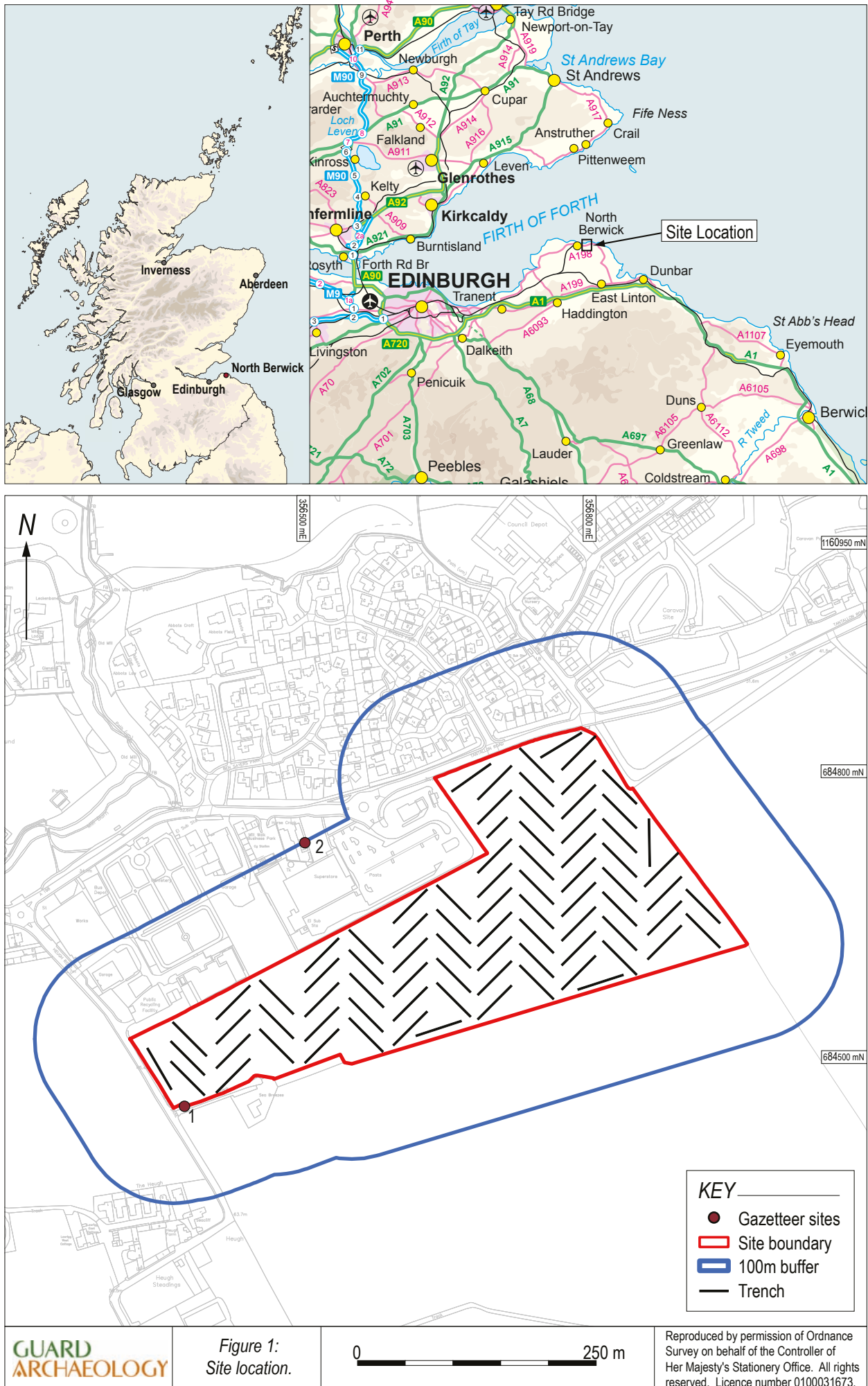
Appendix E: Written Scheme of Investigation

TANTALLON ROAD, NORTH BERWICK, EAST LOTHIAN

ARCHAEOLOGICAL EVALUATION

WRITTEN SCHEME OF INVESTIGATION

PROJECT 4540



Executive Summary

- 1.1 This Written Scheme of Investigation forms the archaeological method statement for the archaeological evaluation of proposed development at Tantallon Road, North Berwick in East Lothian. This Written Scheme of Investigation will require to be approved by the local authority prior to the commencement of archaeological fieldwork.

Introduction

- 2.1 This Written Scheme of Investigation (WSI) sets out the methodology for the archaeological mitigation works required for the development at Tantallon Road, North Berwick in accordance with the existing Planning Consent (Planning Reference: 15/00670/PPM), on behalf of Dandara Limited. In accordance with the agreement of the East Lothian Council Archaeology Service the scope of work is a 10% archaeological evaluation, required in order to evaluate the presence, nature, significance and extent of any archaeological features within the development area.
- 2.2 This WSI outlines the programme of archaeological works that may be needed to mitigate the effects of the proposed development. It details the methodology to be employed in implementing Stage 1 archaeological works. The mitigation methodology to be employed during Stage 2 excavation and Stage 3 post-excavation analysis and publication, if required, will be specified in further WSI addendums. These WSI addendums, if required, will be submitted for the agreement of the East Lothian Council archaeological service (ELCAS), prior to the commencement of any archaeological work. All phases of work will be funded by the developer as required by the Planning Authority.

Site Location

- 3.1 The proposed development area is located on the south-eastern edge of North Berwick (Figure 1). The Site is bounded by Tantallon Road, a supermarket, and industrial buildings to the north, by Heugh Road to the west, and by enclosed fields to the east and south. Topographically, the Site slopes down from south and south-west to the north and north-west. The current land use is agricultural.

Archaeological Background

- 4.1 A desk based assessment undertaken by GUARD Archaeology indicates that there is one known cultural heritage site within the proposed development area, Loan farmstead located near the north-west corner of the field, which could date to the eighteenth century but was demolished by 1854. Within the 100 m buffer zone around the proposed development area there is a building on Tantallon Road known as Horse Crook Mill which originated as a waukmill in the eighteenth century. Neither of these sites has statutory or non-statutory designation. Lithics noted during the walkover survey may indicate prehistoric activity within or adjacent to the proposed development. Cartographic regression work indicates that the proposed development area has been agricultural land from at least the mid-eighteenth century onwards, and that, aside from a farm in the extreme south-west corner, no previous development of the Site has taken place. Given that this land has not previously been developed, and that there may have been prehistoric activity within the proposed development area, there is potential for the survival of hitherto undiscovered sub-surface archaeological remains.

Aims and Objectives

- 5.1 The aims of the archaeological works is to:
- evaluate the presence, nature, significance and extent of any archaeological features within the development area, specifically focused on the two known archaeological sites.
- 5.2 The objectives are therefore to:

- Conduct an archaeological evaluation to evaluate the presence or absence of any archaeological remains, and their character, date and extent if surviving;
- Submit a report to data structure level for agreement to ELCAS on completion of the evaluation;
- Submit, if excavation or post-excavation works are required, an accompanying project design and costing alongside the data structure report, which will outline arrangements for further excavation or post-excavation works.

Methodology

- 6.1 All elements of the evaluation will undertaken in line with the following policies and guidelines of the Chartered Institute for Archaeologists (CIfA) of which GUARD Archaeology Ltd is a Registered Organisation.
 - By-laws: Code of Conduct (2014);
 - Standard and Guidance for archaeological field evaluation (2014).
- 6.2 A GUARD Archaeologist will photograph the development area and make a brief written description prior to the commencement of ground-breaking works.
- 6.3 The course of any existing services will first be surveyed. A minimum three metre buffer zone either side of each known service will be marked on the ground. A Cat Scan will be used prior to the machine excavation of each trench.
- 6.4 Trenches will be located to provide good coverage across the development site. Initially the machine will remove the vegetation to expose the ground surface for the identification and recovery of lithics and other artefacts. If concentrations of lithics are noted an area up to 10 m by 10m will be stripped of vegetation. Approximately a third (27) of the trenches will be scraped of vegetation as a first step to recover lithics.
- 6.5 The machine excavation of trenches amounting to 8% of the 10.2 ha development area will then follow and will be supervised at all times by an experienced GUARD Archaeologist. The evaluation trenches will comprise 82 trenches (81 trenches each 50 m long and 2 m wide and one trench 30 m long by 2 m wide, amounting to 8,160 m² in total (Figure 1).
- 6.6 The machine excavator will be fitted with a c 2 m wide flat-bladed (toothless) ditching bucket.
- 6.7 The topsoil at each trench location will be removed in spits to the first archaeological horizon or, where none was found, to the natural subsoil. Any archaeological features encountered will be cleaned by hand by the on-site Archaeologists to determine their character and extent.
- 6.8 All potential archaeological features encountered during the trenching will be investigated by the on-site Archaeologists. Significant features including negative-cut features will be 25-50% excavated in order to determine their significance, date and function. Linear features will be 10 % excavated in order to determine their significant, date and function. Where groups of similar features are uncovered only a representative sample will be investigated (approximately 20% or 1 in 4). A full record of excavated features will be made using a single context planning system using pro forma sheets, drawings and photographs. All archaeological features will be photographed and recorded at an appropriate scale. Sections will be drawn at 1:10, and plans at 1:20. All levels will be tied into Ordnance Datum and the trenches accurately located with the National Grid.
- 6.9 If potentially eighteenth century - modern agricultural features are identified (furrows, ditches, drains etc) these will be investigated to confirm their interpretation. As the full extent of such features is unlikely to be uncovered initially a 0.5 m section will be excavated across selected features to confirm dimensions, function and the presence and type of drain in use.
- 6.10 All archaeological finds will be dealt with by the on-site Archaeologist. Finds and animal bone will be collected as bulk samples by context. Significant small finds will be three dimensionally located prior to collection. All finds will be processed to MAP2 type standards and subject to specialist assessment. Palaeo-environmental samples will also be taken where appropriate. If necessary, conservation of finds will be appraised to allow for specialist study.

- 6.11 A representative section will be recorded for each trench denoting depth of topsoil, any stratigraphy present and the nature of the soil. This information will be logged in the day book together with a sketch drawn to scale and a photographic record of deposits.
- 6.12 Each trench will be accurately surveyed using a Total Station or GPS and will be related to the Ordnance Survey Grid. A record of the full extent in plan of all archaeological deposits as revealed in the investigation will be made, either digitally or by hand, and related to the OS grid. In addition to archaeological features this will include recent agricultural features and changes in the subsoil. Where digital planning is used, the project archaeologists will ensure that a sufficient number of points are taken on each feature to ensure an accurate representation of the site. A plan of each trench will be made and included in the report where appropriate.
- 6.13 Should significant archaeological remains be encountered by the evaluation, requiring more than the limited sampling outlined above, the remains will be largely left *in situ* pending the agreement of the client and ELCAS on an appropriate excavation project design, in accordance with paragraph 2.2 above.
- 6.14 Should human remains be revealed by the excavation, the police, the client and ELCAS will be informed immediately. Any human remains will be left *in situ*, pending the agreement of the police, the client and ELCAS on an appropriate mitigation strategy.
- 6.15 On completion of all the evaluation trenches, the backfilling of trenches will be undertaken by machine. No specialist backfilling is proposed, nor will the backfilling of trenches be supervised by the on-site archaeologist. After conclusion of excavations and investigation, the plant operator will backfill 50% of track depth (i.e. 250 mm of 500 mm trench) with excavated material and consolidate thoroughly with bottom edge of batter blade bucket. They would then place the remaining excavated material in trench to a height of approximately 5-10 mm above existing ground level and use the machine excavator to track over trench, consolidating both layers to match the existing ground level. Any soft spots or hollows would be filled and tracked in and site would be left tidy on completion.
- 6.16 If modern field drains are broken during the course of the evaluation these will be repaired using sections of plastic drainage pipe of the appropriate diameter.

Report Preparation and Contents

- 7.1 A report detailing the results of the archaeological evaluation will be submitted to the client within two - four weeks of the completion of fieldwork and, subject to client approval, then submitted to ELCAS. The report will take the form of a Data Structure Report and will contain an analysis of the results of the archaeological evaluation. The report will include a full descriptive text that will characterise any archaeological features encountered. It will also include plans and photographs at an appropriate scale showing the evaluation trenches and archiving lists of all drawings and photographs.
- 7.2 The report will include the following:
- executive summary
 - a site location plan to at least 1:10,000 scale with at least an 8 figure central grid reference
 - OASIS reference number; unique site code
 - Planning Reference number
 - contractor's details including date work carried out
 - nature and extent of the proposed development, including developer/client details
 - description of the site history, location and geology
 - a site plan to a suitable scale and tied into the national grid so that features can be correctly orientated
 - context & feature descriptions

- features, number and class of artefacts presented in tabular format
- plans and section drawings of the features drawn at a suitable scale
- initial assessment of relevant finds/samples if appropriate
- discussion of the results of the archaeological evaluation
- recommendations regarding the need for, and scope of, any further archaeological work, such as excavation, post-excavation analysis and publication
- bibliography

- 7.3 At least two copies of the report will be prepared for the client and a further one including a digital PDF copy sent to ELCAS.
- 7.4 The report will be presented in an ordered state and contained within a protective cover/sleeve or bound in some fashion. The report will be page numbered and supplemented with section numbering for ease of reference.

Copyright

- 8.1 Unless otherwise agreed copyright for any report resulting from the archaeological work undertaken as part of the project will be deemed the intellectual property of GUARD Archaeology Limited.

Publication

- 9.1 A summary of the project results will be submitted to *Discovery and Excavation in Scotland*. In the event of minor archaeological remains being encountered during the work, it is proposed that a comprehensive report submitted to *Discovery and Excavation in Scotland*, will form the final publication of the site. A copy of this will be included in the Data Structure Report.

Archive

- 10.1 The archive for the project, including a copy of the report, will be submitted to the National Monuments Records for Scotland within three months of completion of all relevant work.
- 10.2 The online OASIS form at <http://ads.ahds.ac.uk/project/oasis/> will be completed within 1 month of completion of the work. Once the Data Structure Report has become a public document by submission to or incorporation into the SMR, ELCAS will validate the OASIS form thus placing the information into the public domain on the OASIS website.

Finds Disposal

- 11.1 The arrangement for the final disposal of any finds made in connection with the archaeological work, will be deposited in keeping with Scottish legal requirements as set out in the Treasure Trove Code of Practice published by the Scottish Government in December 2008. The laws relating to Treasure Trove and *Bona Vacantia* in Scotland apply to all finds where the original owner cannot be identified. This includes all material recovered during archaeological fieldwork. Accordingly, all assemblages recovered from archaeological fieldwork are claimed automatically by the Crown and must be reported to the Scottish Archaeological Finds Allocation Panel through its secretariat, the Treasure Trove Unit. In the event of the discovery of small finds, a filled-out copy of the form "Declaration of an Archaeological Assemblage from Fieldwork" and two copies of the pertinent Data Structure Report will be submitted to the Panel at the conclusion of the fieldwork. The Panel will then be responsible for recommending to the Queen's and Lord Treasurer's Remembrancer which museum should be allocated the finds. All artefacts will be temporarily stored by GUARD Archaeology until a decision has been made by the panel.

Personnel and Liaison

- 12.1 The GUARD Archaeology team will comprise the following qualified and experienced GUARD archaeologists:
- Project Director (on-site Archaeologist): Juan Ignacio de Vicente Ojeda
 - Additional field staff, if required, will be drawn from our team of experienced field staff
 - Finds and Environmental Support and Conservation: Aileen Maule
 - Illustrator: Gillian Sneddon
 - Project Manager: Bob Will
- 12.2 The GUARD Archaeology Project Manager, Bob Will, will be the point of contact for the archaeological works. A full CV for individuals concerned can be made available on request.

Monitoring

- 13.1 The archaeological works are scheduled to start on Monday 9 January 2017, ELCAS will be informed of the name of the site director and given their site mobile phone number prior to the start date so that monitoring visits can be arranged. It is envisaged that the archaeological evaluation will take 15 days to complete, including the backfilling of trenches.

Health & Safety and Insurance

- 14.1 GUARD Archaeology Limited adheres to the guidelines and standards prescribed for archaeological fieldwork set down in the ClfA approved Health and Safety in Field Archaeology document. It is standard GUARD Archaeology policy, prior to any fieldwork project commencing, to conduct a risk assessment and to prepare a project safety plan, the prescriptions of which will be strictly followed for the duration of all archaeological fieldwork. Copies of the resultant project safety plan and of GUARD Archaeology Limited's Fieldwork Safety Policy Statement may be viewed upon request.
- 14.2 GUARD Archaeology Limited also possesses all necessary insurance cover, proofs of which may be supplied upon request.

GUARD Archaeology Limited
52 Elderpark Workspace
100 Elderpark Street
Glasgow
G51 3TR

Tel: 0141 445 8800

Fax: 0141 445 3222

email: info@guard-archaeology.co.uk



www.guard-archaeology.co.uk