# GUARD <br> ARCHAEOLOGY 



Broken Cross Surface Mining: Phase 3 Extension Archaeological Evaluation
Project 3350
www.guard-archaeology.co.uk
Broken Cross Surface Mining: Phase 3 ExtensionArchaeological Evaluation
On behalf of: ..... Scottish Coal
NGR:
Project Number: ..... 3350
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Date:


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

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## ARCHAEOLOGY

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## Executive Summary

1.1 An archaeological evaluation was carried out by GUARD Archaeology Ltd, on behalf of Scottish Coal, at Broken Cross Surface Mine, near Devonburn, South Lanarkshire. The work was carried out to satisfy Condition 18 of Planning application P/PP/75/96/SR/90 and comprises a phased approach to investigation at the site. The trial trench evaluation comprised a $5 \%$ evaluation of the Phase 3 area in advance of coal extraction, followed by a phase of post-strip walkover survey. No significant archaeological features were encountered during the evaluation or walkover except a field drainage system relating to agricultural improvement works in the 19th and 20th centuries.

## Introduction

2.1 This report sets out the results of a third archaeological evaluation undertaken by GUARD Archaeology Ltd, on behalf of Scottish Coal on the Phase 3 area prior to coal extraction at Broken Cross North.

## Site Location, Topography and Geology

3.1 The proposed development location lies to the east of Devonburn (centred on NGR: NS 84324 38716 ) with the present area under investigation covering approximately $123,825 \mathrm{~m}^{2}$ (Figure 1).
3.2 The site is broadly rectangular in shape and consists of rolling agricultural fields used in crop production and as pasture and is located within an agricultural landscape used primarily for grazing. It is located to the immediate north of the present area of surface mining which was evaluated in April 2010 (Atkinson 2010). Auchmeddan and Moat Mains Farm are located to the north with the present area forming part of their lands.
3.3 The underlying drift geology consists of Devensian Till, while the solid geology consists of Limestone Coal Formation (Geological Digimap; http://digimap.edina.ac.uk)

## Archaeological Background

4.1 A review of desk-based sources undertaken in advance of trenching revealed a small number of sites relating to 19th century coal and limestone extraction within the area. These include Auchmeddan Colliery (NMRS: NS83NW 40), a small disused coal pit (NS 8439 3905) and a disused limestone pit (NS 8444 3791). A stone hammer is also reported within the vicinity (NMRS: NS83NW 21). Two mid 18th century farmsteads are also noted by Roy although they are outwith the application area at Auchmeddan (NS 844 393) and Brae (NS 850 388). A 'C'(s)listed farmstead is located at West Hawksland (NS83NW 29). A previous evaluation of earlier phases of extraction areas of Broken Cross North encountered no significant archaeology other than evidence of 19th-20th century field improvements and coal mining (Will 2010, 165).

## Aims and Objectives

5.1 The aims and objectives of the archaeological work were to:

- establish the presence or absence of archaeological resources within the area of development under targeted archaeological evaluation conditions
- determine the character, extent and significance of any archaeological deposits encountered;
- excavate and record any significant archaeological remains should they be encountered;
- undertake funded post-excavation analysis and publication of the results on the archaeological works should they be warranted.


## Methodology

6.1 Topsoil was stripped using a mechanical excavator, fitted with a flat-bladed ditching bucket, under close archaeological supervision. The topsoil was removed in linear trenches to the surface of the subsoil or the first significant archaeological horizon. The trenches were in general approximately 40 metres long by 2 metres wide. Trenches were located to provide a 5\% sample of the area under investigation and were arranged in an offset cross pattern (Figure 1).
6.2 The evaluation was followed by a phase of post-topsoil strip walkover survey, conducted to identify any features missed by the evaluation phase.
6.3 All on-site recording, written, drawn and photographic, was to the standards normally pertaining in archaeological fieldwork and to IfA standards. Trenches were surveyed and located within the National Grid using a sub-centimetre DGPS (R100) Smart Rover.

## Results

7.1 The work was undertaken between 13th June 2011 and 20th June 2011. During the course of the evaluation a total of $6,080 \mathrm{~m}^{2}$ of trenching was undertaken, spread over 76 individual trenches arranged in an offset cross pattern across the site (Figure 1), the results of which are set out in Appendices B-C. During the course of the evaluation no features of archaeological significance were encountered. For the majority of the area, trenches revealed a midbrown sand silt topsoil ( 0.22 to 0.35 m thick), which lay over natural yellow/brown silt sand subsoil (Plate 1). Two trenches (25 and 26) also contained a patchy brown/ black organic silt deposit (depth 0.04 m ) below the topsoil deposit. This was deemed to be of natural origin and was located in natural 'dips' within the topography.
7.2 During the evaluation very few artefacts were recovered from topsoil deposits and those that were comprised modern pottery sherds. None were retained.


Plate 1.
7.3 On the 16th May 2012 a post-strip walkover survey was conducted over three areas, which had previously been trenched in June 2011 (see above). The scope of the visit included walkover of areas to the West of the immediate working area and the other two lay to the North and to the East. The areas exposed were relatively flat and well drained and sloped towards the North. The topsoil itself had been removed down to the depth of the subsoil - it is unknown the actual depth of the soil removed - but it appeared to be no more than $0.40-0.50$ metres in depth. The underlying subsoil was a sandy silty layer with many stone/pebble inclusions. No obvious archaeology was noted during the walkover in any of the three areas. An area to the North of the three areas surveyed remains to be stripped of topsoil.

## Discussion

8.1 The evaluation trenching only identified field drainage relating to agricultural land improvements during the 19th and 20th centuries.

## Conclusions

9.1 The evaluation and walkovers demonstrated that no archaeologically sensitive deposits or features exist within the present Phase 3 area set aside for coal extraction. It is however recommended that further walkover surveys of the Phase 3 area be conducted (as defined in the WSI - see attached) after the topsoil has been removed. Once all surveys have been completed the report will be finalised.
9.2 GUARD would stress that these recommendations are intended for guidance only. While the recommended mitigation strategy was developed following consultation with Paul Robins of WoSAS, final decisions on the nature and extent of any future archaeological work rest with the planning authority.

## Acknowledgements

10.1 GUARD would like to thank Scottish Coal and Mr Jim Struthers for their assistance on site. Plant and drivers were supplied by Blackwood Plant Hire. Technical support was from Aileen Maule and John Kiely. A survey of trench locations was conducted by Fiona Jackson. The illustrations were produced by Fiona Jackson. The report was desk top published by Jen Cochrane. The project was managed for GUARD by John Atkinson.

# Broken Cross Surface Mining: Phase 3 Extension <br> <br> Archaeological Evaluation 

 <br> <br> Archaeological Evaluation}

## Section 2: Appendices


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## Appendices

## Appendix A: Bibliography

Atkinson, J 2010 Broken Cross North (BXN) Surface Mine (unpublished DSR report 3098)
Geological Digimap (http://digimap.edina.ac.uk)
National Monuments Record for Scotland, www.rcahms.gov.uk
West of Scotland Archaeology Service (WoSAS) Sites and Monuments Record. Available from http:// www.wosas.net/wosas

Will, B 2010 'Broken Cross North Evaluation and Walkover Survey', in Discovery and Excavation in Scotland, volume 11 (2010), 165.

## Appendix B: Trench Records

| Tr No | Length (m) | Width (m) | Depth (m) | Topsoil/Overburden | Subsoil | Details |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 40 | 2 | 0.35 | Mid-brown sand silt (depth 0.25 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified |
| 2 | 40 | 2 | 0.3 | Mid-brown sand silt (depth 0.25 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified |
| 3 | 40 | 2 | 0.3 | Mid-brown sand silt (depth 0.25 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified |
| 4 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.28 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified |
| 5 | 40 | 2 | 0.3 | Mid-brown sand silt (depth 0.20 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drain orientated E-W across trench |
| 6 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.28m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drain orientated E-W across trench |
| 7 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.30m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drain orientated E-W across trench |
| 8 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.30m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drain orientated E-W across trench |
| 9 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.30 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drain orientated E-W across trench |
| 10 | 40 | 2 | 0.35 | Mid-brown sand silt (depth 0.25m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains orientated E-W across trench and spaced 7m apart. |
| 11 | 40 | 2 | 0.3 | Mid-brown sand silt (depth 0.25 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. |


| Tr No | Length (m) | Width <br> (m) | Depth (m) | Topsoil/Overburden | Subsoil | Details |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12 | 40 | 2 | 0.3 | Mid-brown sand silt (depth 0.25 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains orientated E-W across trench. |
| 13 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.25 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. |
| 14 | 40 | 2 | 0.3 | Mid-brown sand silt (depth 0.2 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. |
| 15 | 40 | 2 | 0.45-0.50 | Mid-brown sand silt (depth 0.3 m ) | Yellow brown silt sand with occasional pebbles and gravel inclusions | No archaeological features or finds identified. |
| 16 | 40 | 2 | 0.30-0.40 | Mid-brown sand silt (depth 0.2-0.3m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. |
| 17 | 40 | 2 | 0.35 | Mid-brown sand silt (depth 0.25 m ) | Yellow/orange/brown silt sand with occasional pebbles | No archaeological features or finds identified. |
| 18 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.30 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drain orientated north-south across trench |
| 19 | 40 | 2 | 0.36 | Mid-brown sand silt (depth 0.31 m ) | Yellow brown silt sand with occasional pebble and cobble sized stone inclusions | No archaeological features or finds identified. Two field drains orientated WNWESE across trench |
| 20 | 40 | 2 | 0.35 | Mid-brown sand silt (depth 0.30 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drain orientated north-south across trench |
| 21 | 40 | 2 | 0.39 | Mid-brown sand silt (depth 0.35 m ) | Yellow/orange/brown silt sand with occasional sub-rounded pebble and cobble inclusions | No archaeological features or finds identified. |
| 22 | 40 | 2 | 0.3 | Mid-brown sand silt (depth 0.27 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. |
| 23 | 40 | 2 | 0.41 | Mid-brown sand silt (depth 0.36 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. |
| 24 | 40 | 2 | 0.3 | Mid-brown sand silt (depth 0.22 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. |
| 25 | 40 | 2 | 0.36-0.50 | Mid-brown sand silt (depth 0.36 m ). Below was occassionally found a brown/black organic silt deposit (depth 0.04 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. A rubble filled drain and tile drains were found orientated northsouth across the trench. |
| 26 | 40 | 2 | 0.30-0.40 | Mid-brown sand silt (depth 0.22 m ). Below was occassionally found a brown/black organic silt deposit (depth $0.04 \mathrm{~m})$ | Yellow brown silt sand with occassional pebbles | No archaeological features or finds identified. |
| 27 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.35 m ) | White grey silt sand with occasional pebbles | No archaeological features or finds identified. Field drain orientated north-south across the tench. |


| Tr No | Length (m) | Width <br> (m) | Depth (m) | Topsoil/Overburden | Subsoil | Details |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 28 | 40 | 2 | 0.36-0.50 | Mid-brown sand silt (depth 0.29m) | Grey/orange/brown sand | No archaeological features or finds identified. Field drain orientated north-south across the tench and rubble drain. |
| 29 | 40 | 2 | 0.35-0.38 | Mid-brown sand silt (depth 0.34m) | Brown orange coarse sand | No archaeological features or finds identified. |
| 30 | 40 | 2 | 0.35 | Mid-brown sand silt (depth 0.29m) | Yellow/orange/brown silt sand with occasional sub-rounded pebble and cobble inclusions | No archaeological features or finds identified. Rubble field drain orientated eastwest across trench |
| 31 | 40 | 2 | 0.35-0.38 | Mid-brown sand silt (depth 0.25m) | Yellow brown silt sand with occassional pebbles | No archaeological features or finds identified. Field drains located in trench |
| 32 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.25 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified |
| 33 | 40 | 2 | 0.45 | Mid-brown sand silt (depth 0.35 m ) | White grey sand with occasional angular cobble inclusions | No archaeological features or finds identified |
| 34 | 40 | 2 | 0.3 | Mid-brown sand silt (depth 0.20-0.25m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. A rubble field drain and ceramic filled drain orientated northsouth across trench |
| 35 | 40 | 2 | 0.3 | Mid-brown sand silt (depth 0.30m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Rubble field drain found in trench |
| 36 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.35 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. |
| 37 | 40 | 2 | 0.3 | Mid-brown sand silt (depth 0.25 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Drain filled with brick fragments and orientated north-south across trench |
| 38 | 40 | 2 | 0.45 | Mid-brown sand silt (depth 0.30m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified |
| 39 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.30m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains found in trench |
| 40 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.30m) | White grey sand with occasional pebbles | No archaeological features or finds identified. Debris, including stone and concrete found at southern end of trench |
| 41 | 40 | 2 | 0.3 | Mid-brown sand silt (depth 0.25m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains found in trench |
| 42 | 40 | 2 | 0.35 | Mid-brown sand silt (depth 0.35 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains found in trench |


| Tr No | Length (m) | Width (m) | Depth (m) | Topsoil/Overburden | Subsoil | Details |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 43 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.3-0.35m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains found in trench |
| 44 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.25 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains found in trench |
| 45 | 40 | 2 | 0.35 | Mid-brown sand silt (depth 0.35 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains found in trench |
| 46 | 40 | 2 | 0.35 | Mid-brown sand silt (depth 0.30-0.35m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. |
| 47 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.30 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. |
| 48 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.35 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. |
| 49 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.30 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. |
| 50 | 40 | 2 | 0.35-0.38 | Mid-brown sand silt (depth 0.30 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains found in trench |
| 51 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.30 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains found in trench |
| 52 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.35 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains found in trench |
| 53 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.30 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. |
| 54 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.30 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains found in trench |
| 55 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.27 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains found in trench |
| 56 | 40 | 2 | 0.3 | Mid-brown sand silt (depth 0.25 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drain found in trench |
| 57 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.25 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. |
| 58 | 40 | 2 | 0.3 | Mid-brown sand silt (depth 0.25 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. |
| 59 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.30 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. |
| 60 | 40 | 2 | 0.3 | Mid-brown sand silt (depth 0.25 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains found in trench |


| Tr No | Length (m) | Width (m) | Depth (m) | Topsoil/Overburden | Subsoil | Details |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 61 | 40 | 2 | 0.35 | Mid-brown sand silt (depth 0.25m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains found in trench |
| 62 | 40 | 2 | 0.35-0.45 | Dark brown sand silt (depth 0.35 m ) | Light grey sand clay | No archaeological features or finds identified. Field drain orientated east-west across trench |
| 63 | 40 | 2 | 0.4 | Mid-brown sand silt (depth 0.30m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains found in trench |
| 64 | 40 | 2 | 0.3 | Mid-brown sand silt (depth 0.25m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. |
| 65 | 40 | 2 | 0.3 | Mid-brown sand silt (depth 0.25 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. |
| 66 | 40 | 2 | 0.35 | Mid-brown sand silt (depth 0.25m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains found in trench |
| 67 | 40 | 2 | 0.38 | Mid-brown sand silt (depth 0.34m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. |
| 68 | 40 | 2 | 0.38 | Mid-brown sand silt (depth 0.35m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Three field drains orientated north west - south east across trench |
| 69 | 40 | 2 | 0.35 | Mid-brown sand silt (depth 0.25m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains found in trench |
| 70 | 40 | 2 | 0.39 | Mid-brown sand silt (depth 0.36m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Four field drains orientated northsouth across trench |
| 71 | 40 | 2 | 0.3 | Mid-brown sand silt (depth 0.25m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains found in trench |
| 72 | 40 | 2 | 0.3 | Mid-brown sand silt (depth 0.20m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains found in trench |
| 73 | 40 | 2 | 0.3 | Mid-brown sand silt (depth 0.25 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains found in trench |
| 74 | 40 | 2 | 0.35 | Mid-brown sand silt with occasional stone inclusions (depth 0.30m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. Field drains found in trench |
| 75 | 40 | 2 | 0.35 | Mid-brown sand silt with occasional stone inclusions (depth 0.25 m ) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. |
| 76 | 40 | 2 | 0.3 | Mid-brown sand silt with occasional stone inclusions (depth 0.25m) | Yellow brown silt sand with occasional pebbles | No archaeological features or finds identified. |

## Appendix C: Photographic Record

| File No. | Frame | Area/Trench No. | Context No. | Subject | Taken From |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - | 1 | - | - | Project ID shot | - |
| - | 2 | 46 | - | ID shot | - |
| - | 3 | 46 | 001, 002 | South-west facing section | SW |
| - | 4 | 46 | 002 | Post excavation | NW |
| - | 5 | 43 | - | ID shot | - |
| - | 6 | 43 | 001, 002 | South-west facing section | SW |
| - | 7 | 43 | 002 | Post excavation | NW |
| - | 8 | 36 | - | ID shot | - |
| - | 9 | 36 | 001, 002 | South-west facing section | SW |
| - | 10 | 36 | 002 | Post excavation | NW |
| - | 11 | 33 | - | ID shot | - |
| - | 12 | 33 | 001, 002 | North-east facing section | NE |
| - | 13 | 33 | 002 | Post excavation | NW |
| - | 14 | 31 | - | ID shot | - |
| - | 15 | 31 | 001, 002 | South-west facing section | SW |
| - | 16 | 31 | 002 | Post excavation | NW |
| - | 17 | 48 | - | ID shot | - |
| - | 18 | 48 | 001, 002 | North-east facing section | NE |
| - | 19 | 48 | 002 | Post excavation | NW |
| - | 20 | 45 | - | ID shot | - |
| - | 21 | 45 | 001, 002 | South-west facing section | SW |
| - | 22 | 45 | 002 | Post excavation | NW |
| - | 23 | 44 | - | ID shot | - |
| - | 24 | 44 | 001, 002 | South-east facing section | SE |
| - | 25 | 44 | 002 | Post excavation | SW |
| - | 26 | 35 | - | ID shot | - |
| - | 27 | 35 | 001, 002 | North-west facing section | NW |
| - | 28 | 35 | 002 | Post excavation | SW |
| - | 29 | 34 | - | ID shot | - |
| - | 30 | 34 | 001, 002 | South-east facing section | SE |
| - | 31 | 34 | 002 | Post excavation | SW |
| - | 32 | 32 | - | ID shot | - |
| - | 33 | 32 | 001, 002 | South-east facing section | SE |
| - | 34 | 32 | 002 | Post excavation | SW |
| - | 35 | 47 | - | ID shot | - |
| - | 36 | 47 | 001, 002 | North-west facing section | NW |
| - | 37 | 47 | 002 | Post excavation | NE |
| - | 38 | 27 | - | ID shot | - |
| - | 39 | 27 | 001, 002 | North-east facing section | NE |
| - | 40 | 27 | 002 | Post excavation | SE |
| - | 41 | 26 | - | ID shot | - |
| - | 42 | 26 | 001, 002 | North-west facing section | NW |
| - | 43 | 26 | 002 | Post excavation | NE |
| - | 44 | 24 | - | ID shot | - |
| - | 45 | 24 | 001, 002 | North-west facing section | NW |
| - | 46 | 24 | 002 | Post excavation | SE |
| - | 47 | 22 | - | ID shot | - |
| - | 48 | 22 | 001, 002 | North-west facing section | NW |
| - | 49 | 22 | 002 | Post excavation | SE |
| - | 50 | 37 | - | ID shot | - |
| - | 51 | 37 | 001, 002 | South-east facing section | SE |
| - | 52 | 37 | - | Brick rubble - drain | - |
| - | 53 | 37 | 002 | Post excavation | SW |


| File No. | Frame | Area/Trench No. | Context No. | Subject | Taken From |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - | 54 | 39 | - | ID shot | - |
| - | 55 | 39 | 001, 002 | South-east facing section | SE |
| - | 56 | 39 | 002 | Post excavation | SW |
| - | 57 | 41 | - | ID shot | - |
| - | 58 | 41 | 001, 002 | South-east facing section | SE |
| - | 59 | 41 | 002 | Post excavation | SW |
| - | 60 | 50 | - | ID shot | - |
| - | 61 | 50 | 001, 002 | North-west facing section | NW |
| - | 62 | 50 | 002 | Post excavation | NE |
| - | 63 | 49 | - | ID shot | - |
| - | 64 | 49 | 001, 002 | North-east facing section | NE |
| - | 65 | 49 | 002 | Post excavation | SE |
| - | 66 | 42 | - | ID shot | - |
| - | 67 | 42 | 001, 002 | North-east facing section | NE |
| - | 68 | 42 | 002 | Post excavation | SE |
| - | 69 | 40 | - | ID shot | - |
| - | 70 | 40 | 001, 002 | North-east facing section | NE |
| - | 71 | 40 | 002 | Post excavation | SE |
| - | 72 | 38 | - | ID shot | - |
| - | 73 | 38 | 001, 002 | North-east facing section | NE |
| - | 74 | 38 | 002 | Post excavation | SE |
| - | 75 | 20 | - | ID shot | - |
| - | 76 | 20 | 001, 002 | North-east facing section | NE |
| - | 77 | 20 | 002 | Post excavation | SE |
| - | 78 | 17 | - | ID shot | - |
| - | 79 | 17 | 001, 002 | North-west facing section | NW |
| - | 80 | 17 | 002 | Post excavation | NE |
| - | 81 | 12 | - | ID shot | - |
| - | 82 | 12 | 001, 002 | North-west facing section | NW |
| - | 83 | 12 | 002 | Post excavation | NE |
| - | 84 | 6 | - | ID shot | - |
| - | 85 | 6 | 001, 002 | South-east facing section | SE |
| - | 86 | 6 | 002 | Post excavation | SW |
| - | 87 | 5 | - | ID shot | - |
| - | 88 | 5 | 001, 002 | North-east facing section | NE |
| - | 89 | 5 | 002 | Post excavation | SE |
| - | 90 | 7 | - | ID shot | - |
| - | 91 | 7 | 001, 002 | South-east facing section | SE |
| - | 92 | 7 | 002 | Post excavation | SW |
| - | 93 | 9 | - | ID shot | - |
| - | 94 | 9 | 001, 002 | South-east facing section | SE |
| - | 95 | 9 | 002 | Post excavation | SW |
| - | 96 | 10 | - | ID shot | - |
| - | 97 | 10 | 001, 002 | North-east facing section | NE |
| - | 98 | 10 | 002 | Post excavation | SE |
| - | 99 | 8 | - | ID shot | - |
| - | 100 | 8 | 001, 002 | South-west facing section | SW |
| - | 101 | 8 | 002 | Post excavation | NW |
| - | 102 | 11 | - | ID shot | - |
| - | 103 | 11 | 001, 002 | South-west facing section | SW |
| - | 104 | 11 | 002 | Post excavation | NW |
| - | 105 | 18 | - | ID shot | - |
| - | 106 | 18 | 001, 002 | North-east facing section | NE |
| - | 107 | 18 | 002 | Post excavation | SE |
| - | 108 | 14 | - | ID shot | - |


| File No. | Frame | Area/Trench No. | Context No. | Subject | Taken From |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - | 109 | 14 | 001, 002 | North-west facing section | NW |
| - | 110 | 14 | 002 | Post excavation | NE |
| - | 111 | 3 | - | ID shot | - |
| - | 112 | 3 | 001, 002 | South-east facing section | SE |
| - | 113 | 3 | 002 | Post excavation | NE |
| - | 114 | 4 | - | ID shot | - |
| - | 115 | 4 | 001, 002 | South-west facing section | SW |
| - | 116 | 4 | 002 | Post excavation | NW |
| - | 117 | 13 | - | ID shot | - |
| - | 118 | 13 | 001, 002 | South-west facing section | SW |
| - | 119 | 13 | 002 | Post excavation | NW |
| - | 120 | 15 | 001, 002 | North-west facing section | NW |
| - | 121 | 15 | 002 | Post excavation | NE |
| - | 122 | 2 | 001, 002 | South-east facing section | SE |
| - | 123 | 2 | 002 | Post excavation | NE |
| - | 124 | 1 | - | ID shot | - |
| - | 125 | 1 | 001, 002 | North-east facing section | NE |
| - | 126 | 1 | 002 | Post excavation | SW |
| - | 127 | 16 | - | ID shot | - |
| - | 128 | 16 | 001, 002 | North-east facing section | NE |
| - | 129 | 16 | 002 | Post excavation | SE |
| - | 130 | 51 | - | ID shot | - |
| - | 131 | 51 | 001, 002 | South-west facing section | SW |
| - | 132 | 51 | 002 | Post excavation | NW |
| - | 133 | 52 | - | ID shot | - |
| - | 134 | 52 | 001, 002 | North-west facing section | NW |
| - | 135 | 52 | 002 | Post excavation | NE |
| - | 136 | 53 | - | ID shot | - |
| - | 137 | 53 | 001, 002 | North-east facing section | NE |
| - | 138 | 53 | 002 | Post excavation | NW |
| - | 139 | 54 | - | ID shot | - |
| - | 140 | 54 | 001, 002 | North-west facing section | NW |
| - | 141 | 54 | 002 | Post excavation | NE |
| - | 142 | 55 | - | ID shot | - |
| - | 143 | 55 | 001, 002 | North-east facing section | NE |
| - | 144 | 55 | 002 | Post excavation | SE |
| - | 145 | 57 | - | ID shot | - |
| - | 146 | 57 | 001, 002 | North-east facing section | NE |
| - | 147 | 57 | 002 | Post excavation | SE |
| - | 148 | 60 | - | ID shot | - |
| - | 149 | 60 | 001, 002 | North-east facing section | NE |
| - | 150 | 60 | 002 | Post excavation | SE |
| - | 151 | 59 | - | ID shot | - |
| - | 152 | 59 | 001, 002 | North-west facing section | NW |
| - | 153 | 59 | 002 | Post excavation | NE |
|  | 154 | 58 | - | ID shot | - |
| Digi 1 | 155 | 58 | 001, 002 | North-west facing section | NW |
| Digi 1 | 156 | 58 | 002 | Post excavation | NE |
| Digi 1 | 157 | 56 | - | ID shot | - |
| Digi 1 | 158 | 56 | 001, 002 | North-west facing section | NW |
| Digi 1 | 159 | 56 | 002 | Post excavation | NE |
| Digi 1 | 160 | 62 | - | ID shot | - |
| Digi 1 | 161 | 62 | 001, 002 | North-east facing section | NE |
| Digi 1 | 162 | 62 | 002 | Post excavation | NW |
| Digi 1 | 163 | 61 | - | ID shot | - |


| File No. | Frame | Area/Trench No. | Context No. | Subject | Taken From |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Digi 1 | 164 | 61 | 001, 002 | North-west facing section | NE |
| Digi 1 | 165 | 61 | 002 | Post excavation | NE |
| Digi 1 | 166 | 63 | - | ID shot | - |
| Digi 1 | 167 | 63 | 001, 002 | North-east facing section | NE |
| Digi 1 | 168 | 63 | 002 | Post excavation | NW |
| Digi 1 | 169 | 64 | - | ID shot | - |
| Digi 1 | 170 | 64 | 001, 002 | North-east facing section | NE |
| Digi 1 | 171 | 64 | 002 | Post excavation | SW |
| Digi 1 | 172 | 66 | - | ID shot | - |
| Digi 1 | 173 | 66 | 001, 002 | South-east facing section | SE |
| Digi 1 | 174 | 66 | 002 | Post excavation | SW |
| Digi 1 | 175 | 65 | - | ID shot | - |
| Digi 1 | 176 | 65 | 001, 002 | North-east facing section | NE |
| Digi 1 | 177 | 65 | 002 | Post excavation | NW |
| Digi 1 | 178 | 76 | - | ID shot | - |
| Digi 1 | 179 | 76 | 001, 002 | South-west facing section | SW |
| Digi 1 | 180 | 76 | 002 | Post excavation | NW |
| Digi 1 | 181 | 75 | - | ID shot | - |
| Digi 1 | 182 | 75 | 001, 002 | South-east facing section | SE |
| Digi 1 | 183 | 75 | 002 | Post excavation | SW |
| Digi 1 | 184 | 74 | - | ID shot | - |
| Digi 1 | 185 | 74 | 001, 002 | South-west facing section | SW |
| Digi 1 | 186 | 74 | 002 | Post excavation | NE |
| Digi 1 | 187 | 73 | - | ID shot | - |
| Digi 1 | 188 | 73 | 001, 002 | South-east facing section | SE |
| Digi 1 | 189 | 73 | 002 | Post excavation | SW |
| Digi 1 | 190 | 72 | - | ID shot | - |
| Digi 1 | 191 | 72 | 001, 002 | North-west facing section | NW |
| Digi 1 | 192 | 72 | 002 | Post excavation | SW |
| Digi 1 | 193 | 71 | - | ID shot | - |
| Digi 1 | 194 | 71 | 001, 002 | South-west facing section | SW |
| Digi 1 | 195 | 71 | 002 | Post excavation | SE |
| Digi 1 | 196 | 69 | - | ID shot | - |
| Digi 1 | 197 | 69 | 001, 002 | South-west facing section | SW |
| Digi 1 | 198 | 69 | 002 | Post excavation | SE |
| Digi 1 | 199 | 70 | - | ID shot | - |
| Digi 1 | 200 | 70 | 001, 002 | South-east facing section | SE |
| Digi 1 | 201 | 70 | 002 | Post excavation | SW |
| Digi 1 | 202 | 68 | - | ID shot | - |
| Digi 1 | 203 | 68 | 001, 002 | South-east facing section | SE |
| Digi 1 | 204 | 68 | 002 | Post excavation | SW |
| Digi 1 | 205 | 67 | - | ID shot | - |
| Digi 1 | 206 | 67 | 001, 002 | South-east facing section | SE |
| Digi 1 | 207 | 67 | 002 | Post excavation | SW |
| Digi 1 | 208 | - | - | Backfilled trenches | SW |
| Digi 1 | 209 | - | - | Backfilled trenches | NE |
| Digi 1 | 210 | - | - | Backfilled trenches | NW |
| Digi 1 | 211 | - | - | Backfilled trenches | SW |
| Digi 1 | 212 | - | - | Backfilled trenches | SE |
| Digi 1 | 213 | - | - | Backfilled trenches | SE |
| Digi 1 | 214 | - | - | Backfilled trenches | E |
| Digi 1 | 215 | - | - | Backfilled trenches | NE |
| Digi 1 | 216 | - | - | Backfilled trenches | SE |
| Digi 1 | 217 | - | - | Backfilled trenches | E |
| Digi 1 | 218 | - | - | Backfilled trenches | NE |


| File No. | Frame | Area/Trench No. | Context No. | Subject | Taken From |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Digi 1 | 219 | - | - | Backfilled trenches | SW |
| Digi 1 | 220 | - | - | Backfilled trenches | N |
| Digi 1 | 221 | - | - | Backfilled trenches | W |
| Digi 1 | 222 | - | - | Backfilled trenches | S |
| Digi 1 | 223 | - | - | Backfilled trenches | S |
| Digi 1 | 224 | - | - | Backfilled trenches | SW |
| Digi 1 | 225 | - | - | Backfilled trenches | N |
| Digi 1 | 226 | - | - | Backfilled trenches | N |
| Digi 2 | 1 | 21 |  | ID shot | - |
| Digi 2 | 2 | 21 | 001, 002 | North-west facing section | NW |
| Digi 2 | 3 | 21 | 002 | Post excavation | SW |
| Digi 2 | 4 | 23 | - | ID shot | - |
| Digi 2 | 5 | 23 | 001, 002 | North-west facing section | NW |
| Digi 2 | 6 | 23 | 002 | Post excavation | SW |
| Digi 2 | 7 | 25 | - | ID shot | - |
| Digi 2 | 8 | 25 | 001, 002 | North-west facing section | NW |
| Digi 2 | 9 | 25 | 002 | Post excavation | SW |
| Digi 2 | 10 | 28 | - | ID shot | - |
| Digi 2 | 11 | 28 | 001, 002 | North-west facing section | NW |
| Digi 2 | 12 | 28 | 002 | Post excavation | SW |
| Digi 2 | 13 | 29 | 001, 002 | North-west facing section | NW |
| Digi 2 | 14 | 29 | - | ID shot | - |
| Digi 2 | 15 | 29 | 002 | Post excavation | SW |
| Digi 2 | 16 | 30 | - | ID shot | - |
| Digi 2 | 17 | 30 | 001, 002 | South-west facing section | SW |
| Digi 2 | 18 | 30 | - | West facing section of rubble drain | W |
| Digi 2 | 19 | 30 | 002 | Post excavation | SE |
| Digi 2 | 20 | - | - | Trenches 21-50 | E |
| Digi 2 | 21 | - | - | Trenches 21-50 | NE |
| Digi 2 | 22 | - | - | Trenches 21-50 | N |
| Digi 2 | 23 | - | - | Trenches 1-20 | SW |
| Digi 2 | 24 | - | - | Trenches 1-20 | SW |
| Digi 2 | 25 | - | - | Trenches 1-20 | SW |
| Digi 2 | 26 | - | - | Trenches 52-60 | SE |
| Digi 2 | 27 | - | - | Trenches 52-60 | E |
| Digi 2 | 28 | - | - | Trenches 52-60 | SE |
| Digi 2 | 29 | 19 | - | ID shot | - |
| Digi 2 | 30 | 19 | 001, 002 | North-east facing section | NE |
| Digi 2 | 31 | 19 | 002 | Post excavation | NW |
| Digi 2 | 32 | - | - | Pre-excavation of trenches 61-66 | W |
| Digi 2 | 33 | - | - | Pre-excavation of trenches 61-66 | W |
| Digi 2 | 34 | - | - | Backfilling of trenches | SE |

## Appendix D: DES Entry

| LOCAL AUTHORITY: | South Lanarkshire |
| :---: | :---: |
| PROJECT TITLE/SITE NAME | Broken Cross North Phase 3 |
| PROJECT CODE: | 3350 |
| PARISH: | Lesmahagow |
| NAME OF CONTRIBUTOR(S): | Maureen C. Kilpatrick |
| NAME OF ORGANISATION: | GUARD Archaeology Ltd |
| TYPE(S) OF PROJECT: | Archaeological Evaluation |
| NMRS NO(S): | - |
| SITE/MONUMENT TYPE(S): | - |
| SIGNIFICANT FINDS: | None |
| NGR (2 letters, 6 figures) | NS 8432438716 |
| START DATE (this season) | $13^{\text {th }}$ June 2011 |
| END DATE (this season) | $20^{\text {th }}$ June 2011 |
| PREVIOUS WORK (incl. DES ref.) | Will, R 2010 Broken Cross North Evaluation |
| MAIN (NARRATIVE) <br> DESCRIPTION: <br> (May include information from other fields) | An archaeological evaluation was carried out by Guard Archaeology Ltd at Broken Cross Surface Mine, near Devonburn, South Lanarkshire. The work was carried out in a phased approach and represents the evaluation of the Phase 3 extension area. No significant archaeological features were encountered during the evaluation except a field drainage system relating to agricultural improvement works in the $19^{\text {th }}$ and $20^{\text {th }}$ centuries. |
| PROPOSED FUTURE WORK: | None |
| SPONSOR OR FUNDING BODY: | Scottish Coal |
| CAPTION(S) FOR ILLUSTRS: | -- |
| ADDRESS OF MAIN CONTRIBUTOR: | GUARD Archaeology Limited, 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 in NMRS. |

## Appendix E: Written Scheme of Investigation

# GUARD 3350: Broken Cross Surface Mining, South Lanarkshire 

## Written Scheme of Investigation

### 1.0 Introduction

## 1.1

This Written Scheme of Investigation sets out a scheme for the archaeological mitigation of a site proposed for coal extraction at Broken Cross North OCCS, South Lanarkshire at approximately NGR: NS 844 383. The proposed development will take place on land that was granted planning permission (P/ PP/75/96/SR/90) on the 16 October 2006. This planning permission has a condition in it (Condition 18) that necessitates the production of a WSI to establish a scheme for the implementation of a programme of archaeological work prior to development proceeding.

A programme of archaeological intervention will include in this case field walking assessments and targeted evaluation of the area of coal extraction at the site. The archaeological evaluation will be undertaken in a maximum of three phases (figure 1).

## 1.2

No scheduled ancient monuments or A-listed buildings are present within the development area or its immediate surrounds. A single C-listed farmstead is located at West Hawksland (NMRS site: NS83NW 29) some 750 m from the application area.

A small number of sites associated with nineteenth century coal and limestone extraction are located within the application area, including Auchmeddan Colliery (NMRS site: NS83NW 40), a small disused coal pit (NS 8439 3905) and a disused limestone pit (NS 8444 3791). A single findspot (a stone hammer) is reported from the vicinity (NMRS site: NS83NW 21), however its provenance is unknown. Two mid-eighteenth century farmsteads are noted by Roy beyond the bounds the application area at Auchmeddan (NS 844 393) and Brae (NS 850 388).

## 1.3

Following consultation with Paul Robins of West of Scotland Archaeology Service (WoSAS), it was agreed that a field walking assessment should be conducted over the whole application area before and after topsoil stripping. In addition to this, evaluation would be targeted within the zone defined as the limit of extraction and be equivalent to a $5 \%$ sample. It was also agreed that the area visible as overlap between the Broken Cross Muir site and the current application would be excluded from any archaeological investigations. It was agreed that a Written Scheme of Investigation (WSI) would be prepared to assist in the development of a suitable strategy for mitigating any archaeological discoveries encountered at the site, and to set out a funded scheme for bringing the results of the archaeological works together for publication (should this be merited).

## 1.4

Condition 18 of the planning application (planning permission P/PP/75/96/SR/90) requires that:
No development will take place on site until the developer has secured the implementation of a programme of archaeological works in accordance with a written scheme of investigation, which has been submitted by the applicant, and approved by the planning authority. Thereafter the developer shall ensure that a programme of archaeological works is fully implemented and that all recording and recovery of archaeological resources within the site us undertaken to the satisfaction of the planning authority.


Figure 1: Location of proposed trenches.

## 1.5

This document sets out a project design for a targeted archaeological approach to the potential archaeological resources within the previously undisturbed areas of the proposed development. The results of the investigation will be sent to WoSAS to allow them to assess the significance of the archaeological remains and the impact that the proposed development will have on them.

### 2.0 Aims and Objectives

## 2.1

The aims and objectives of the archaeological work are to:

- establish the presence or absence of archaeological resources within the area of proposed coal extraction under targeted archaeological evaluation conditions,
- determine the character, extent and significance of any archaeological deposits;
- excavate and record any significant archaeological remains should they be encountered;
- undertake funded post-excavation analysis and publication of the results on the archaeological works should they be warranted.


### 3.0 Methodology

### 3.1 Field Walking Assessments

An initial field walking assessment of the application area will be conducted to identify any potential archaeological sites, not previously recognised across the application area. In the event that sites are located they will be recorded utilising standard techniques, including proforma record sheets, a drawn record (if appropriate) and a photographic record. Sites will be accurately located using a sub-metre DGPS system.

A secondary field walking assessment will be undertaken over the application area as a follow on to topsoil stripping operations. This will be specifically targeted on the areas outside the limits of extraction and will be conducted to identify any surviving negative-cut archaeological features. In the event that sites or features are located they will be recorded using standard techniques and accurately located using a sub-metre DGPS system. Any features that are identified will be investigated to determine age, extent and significance.

### 3.2 Evaluation Trenches

Evaluation of the site will be focussed within the limits of coal extraction and will exclude the area previously covered by the Broken Cross Muir application. Trenching will cover approximately 5\% of the area of extraction (c. 51.59 ha) at the site. All trenches will be one bucket in width, but may be widened if archaeological remains are uncovered. Excavation will initially be by machine under close archaeological supervision. The exposed areas will then be cleaned by hand to identify any archaeological features.

Any features that are identified during the evaluation will be investigated to determine their age, extent and significance. Recording will be by pro-forma sheets, drawings and photographs. Potentially significant features will be partly excavated to determine the date of the deposits and their extent. This information will inform any mitigation strategies for any further work that may be required.

In the event that no significant remains are encountered, the findings of the evaluation will be notified, verbally and in writing, to the WoSAS and Scottish Coal, so that each area can be signed-off as quickly as possible.

### 3.3 Further Mitigation

Should significant archaeological deposits be encountered, an excavation and post-excavation phase of
work may be necessary. In this scenario, an amendment to the written scheme of investigation will be produced to accompany any further work, with further costs for the various stages.

### 4.0 Products

The products of this programme of work will be:

- a preliminary data structure report after completion of the evaluation and field assessment phases of work for submission to the Planning Authority and the local Sites and Monuments Record, which may include a further mitigation strategy;
- a brief summary of results of the fieldwork to be submitted to Discovery and Excavation in Scotland;
- a costed assessment for post-excavation analysis and publication should it be warranted.


### 5.0 Copyright

Copyright for any report resulting from the archaeological work undertaken as part of the project will be deemed the intellectual property of University of Glasgow. However, copies of the report will be available for consultation at the NMRS and local SMR.

### 6.0 Archive Arrangements

## 6.1

Once all fieldwork is completed, all materials from the programme of work will be prepared to the appropriate archive standard. GUARD will undertake to deposit the resultant archive to the NMRS on final completion of the project and any subsequent phases of work.

## 6.2

All finds will be reported to the Treasure Trove Advisory Panel, and GUARD will undertake to ensure their safe deposition within the designated museum at the appropriate time.

### 7.0 Timetable

GUARD will be able to begin work on request, subject to receiving ten working days notice.
On completion of the walkover survey and field evaluation a report to data structures level will be completed within four weeks.

Should post-excavation analysis and reporting be merited, a Post-Excavation Research Design will be produced within three months of completion of all fieldwork at the site.

Submission of final publication reports, should they be warranted, will be undertaken within a year of agreement of the PERD.

### 8.0 Staffing

The programme of work will be conducted by professional archaeologists from GUARD. The project will be directed by one of GUARD's experienced Field Officers.. A full CV for this individual will be made available on request and prior to fieldwork beginning.

### 9.0 Health and Safety Method Statement, Issues and Insurance

## 9.1

The removal of topsoil will initially be by mechanical excavator, working a safe distance from the archaeologists who will be wearing high-visibility safety gear, safely boots and hard hats. The spoil will be removed from the excavation to be dumped a safe distance from the edges of the evaluation

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