



Jackschairs Wood  
Hillfort Excavations  
2007

Data Structure Report

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## Summary

An exploratory excavation across the ramparts of the Jackschairs Wood hillfort was undertaken as part of the University of Glasgow Archaeology Department field school and SERF (Strathearn Environs and Royal Forteviot) project between the 6<sup>th</sup> and 26<sup>th</sup> of August 2008. The results of the excavation revealed four ramparts, with the three inner ramparts each having an accompanying external ditch. The innermost rampart had an *in situ* internal stone facing and evidence that there may also have been an outer stone facing. A possible post-hole on the summit of this rampart as well as charcoal-rich lenses slumped on either side of the rampart suggests timber was also used during a phase of the hillfort's construction. Although the preservation of the ramparts deteriorated downslope, it was clear to see that the outer three ramparts largely comprised homogeneous earthen banks, making it difficult to differentiate construction deposits from collapse. Fragmentary traces of what may be a possible palisade were noted on the second and third ramparts from the interior. Within the fort the greatest preservation of archaeological deposits was located nearest to the inner rampart, where stone paving and several pits with charcoal-rich deposits were recorded.

## Introduction

The hillfort in Jackschairs Wood, Netherholm (NO 0720 1680) is situated within a plantation on a low-lying hill, which is also a promontory extending from the northernmost point of the Ochills. Stretching into Strathearn this prominence would have had extensive views, pre-plantation, to the N, E and W. The four ramparts, with the innermost following a natural break of slope, of this hillfort would have been a notable feature of the local landscape. The fort is located on an outlying outcrop of Devonian lavas, the rock which makes up the Ochil Hills to the south. The fort was noted during the Old Statistical Account of Forgandenny parish in 1792. Subsequently, it has been mapped and surveyed by the Ordnance Survey (OS) and Royal Commission on the Ancient and Historical Monuments of Scotland (RCAHMS). On the 1<sup>st</sup> edition of the 6-inch OS map (1856-66) the fort lies within a large plantation<sup>1</sup>. By the turn of the 20<sup>th</sup> century the fort was still situated with the plantation; however, the wood was cut back for further land improvement, using the outer ramparts as a rough boundary (1<sup>st</sup> edition revision 1901-02). On the one hand, the plantation has helped to safeguard the fort from being completely levelled like many other forts in similar landscape settings, which if anything can only be recorded as a cropmark. Yet, on the other hand, the deep tree roots are likely to have greatly affected the preservation and condition of the archaeological features.

Earlier field surveys have only provided a general characterisation of the hillfort and prior to the current excavation little was known about the fort or the condition of the archaeological deposits. The main aim of the excavation was to evaluate the preservation and character of the archaeological deposits across the ramparts and within the interior of the fort. The objectives were to record all archaeological features, to obtain dating evidence and to observe any possible chronological relationships within and between each of the features recorded, namely the ramparts, associated ditches and internal features. The fort was chosen for excavation as one strand of the SERF (Strathearn Environs and Royal Forteviot) project, a long-term project to investigate the development of settlement in Strathearn (see <http://www.gla.ac.uk/departments/archaeology/research/projects/serf/>).

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<sup>1</sup> Prior to the 1:10,000 OS map published in 1987 the fort had not been accurately surveyed and was depicted slightly too far to the SW. Therefore, although the 2nd edition of the OS 6-inch map depicts the outer ramparts of the fort clipped by the field improvement, a comparison with the 1987 map shows that they were not levelled but instead remained within the plantation.

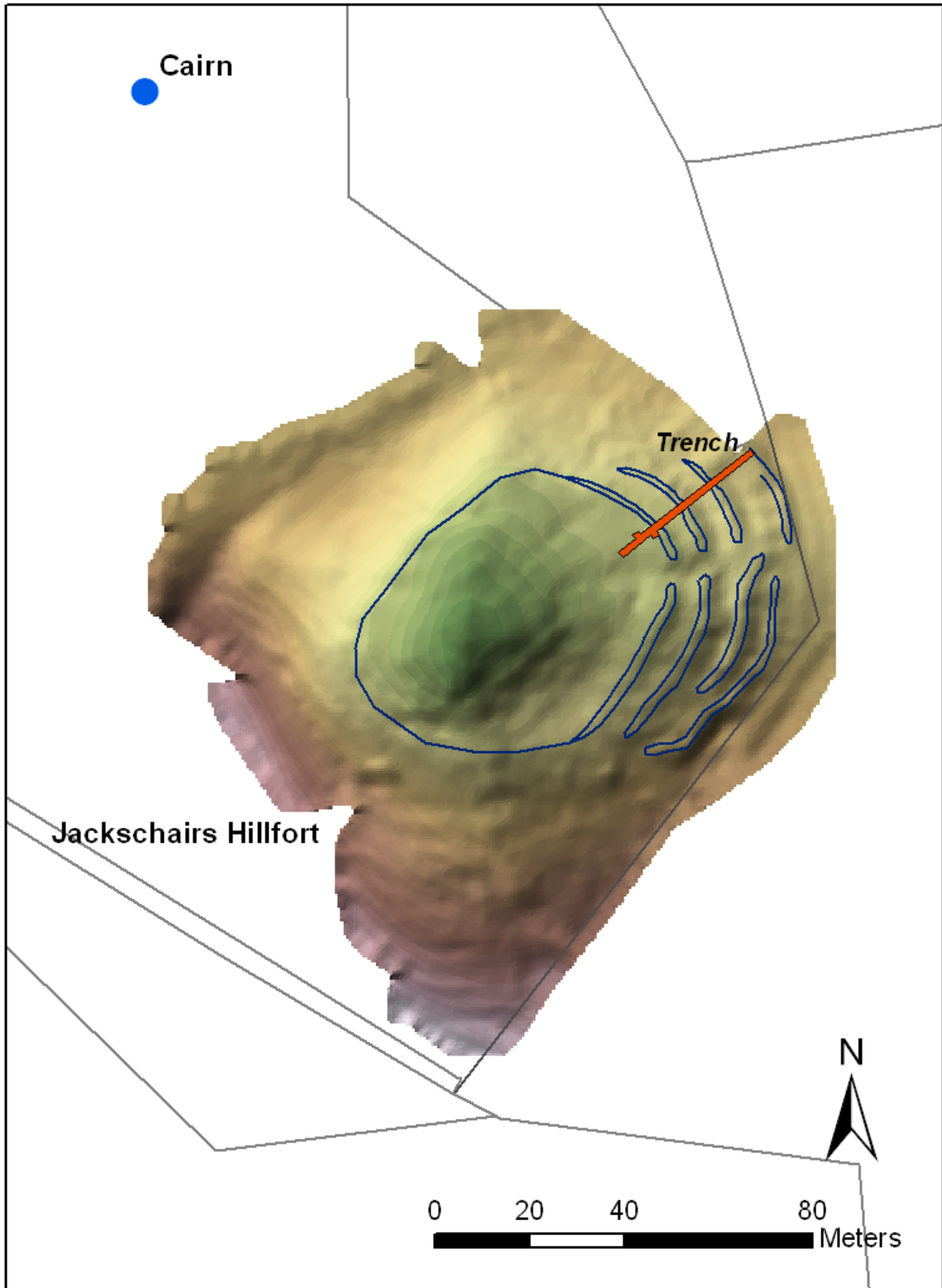


Figure 1: Location of Excavation trench located over an annotated topographic survey

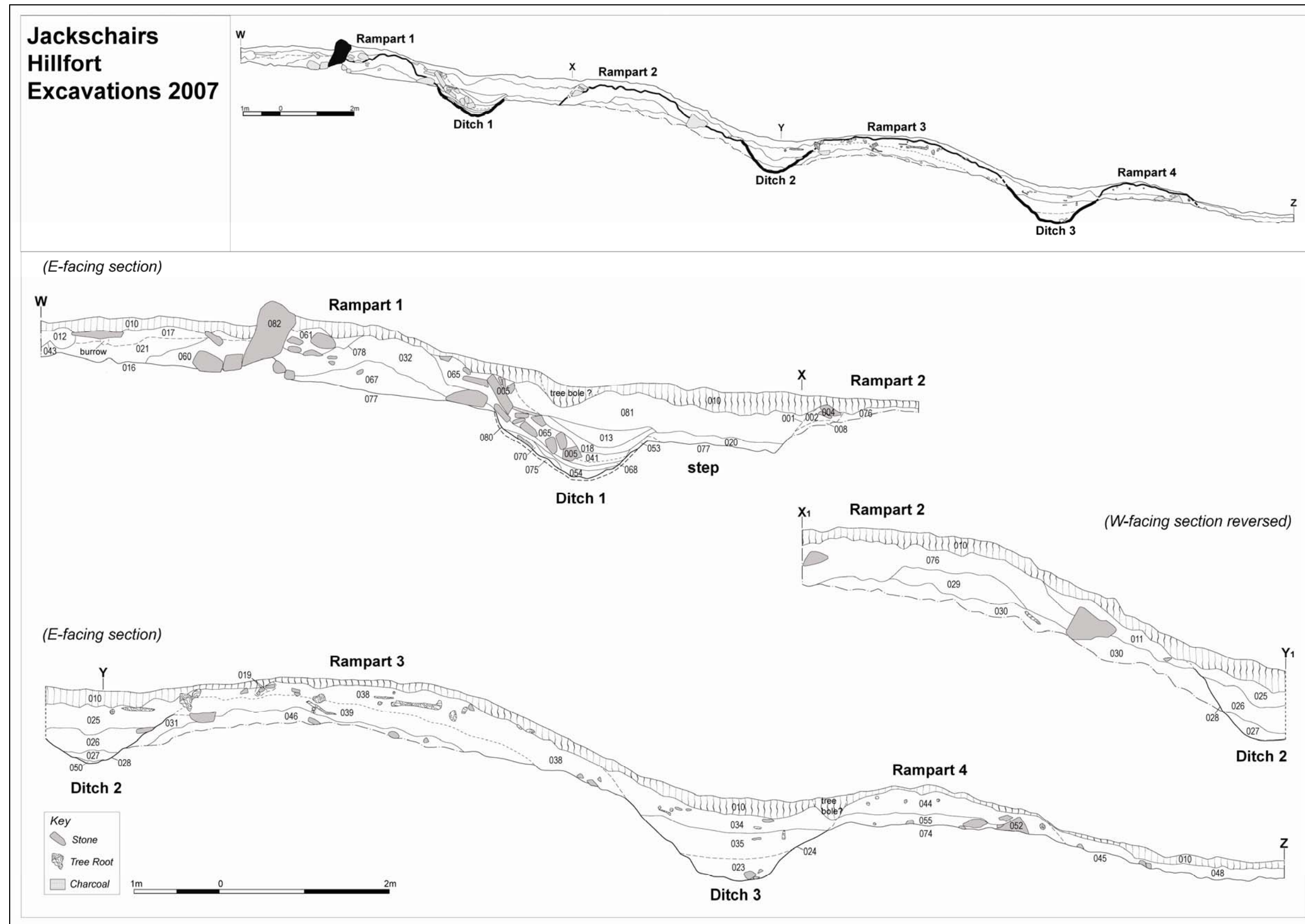


Figure 2: Section showing ramparts and ditches

### *A Brief Description of the Fort*

As mentioned, the previous surveys of the fort have only been very general and therefore a more detailed topographic survey was conducted alongside the excavation (see Figure 1). The following brief description is based on the results of this survey and further field observations of the visible characteristics of the hillfort and its landscape setting on the date of the excavation.

Of the four ramparts the innermost, Rampart 1, was the only one that appeared to form a complete circuit around the hill, following a natural break of slope. The other three were most visible on the NE side of the hill before tapering away towards the SE and the NW, where the hill is naturally steeper. A main entrance appears to be on the E side where there was a causeway, more than 2m wide, cutting across all of the ramparts. The crests of each rampart were roughly parallel to one another, suggesting that one or more were visible while the others were constructed.

Whether the ramparts were contemporary or not, it is clear that characteristics of the surrounding natural topography, as well as natural features within the fort, were considered during its construction. The four ramparts were most conspicuous to the NE and E. Here the slopes are gradual and it is most likely where people would have approached the fort, as suggested by the presence of an entrance on this side. The multiple ramparts would have been most impressive from this approach. As one passed through the entrance the main route appears to lead to the summit where a large bedrock outcrop stands, which may have been a significant focal point. The total area within the inner rampart measures approximately 70m by 50m. The central outcrop and mound occupies a notable amount of this area, leaving a smaller area, mostly confined to just within the rampart, for the construction of buildings or a settlement.

### *Excavation Methodology*

Over three weeks in August 2007 undergraduate students, under the supervision of professional archaeologists, carried out an excavation of a small area of the hillfort. A single continuous trench was cut from the interior outwards across the four ramparts to the NNE. The trench was positioned in order to maximise the potential for identifying stratigraphic and chronological relationships between the ramparts, and between the ramparts and internal features. The location of the trench was also constrained by the numerous mature trees within the plantation. The trench measured 35m in length by 1.5m in width (Figure 1). During the excavation, the preservation of archaeological deposits in the interior of the hillfort was revealed to be most substantial immediately behind the innermost bank (Rampart 1) and therefore two 1.5m x 1.5m extensions were added to the trench in this area. The first extension was positioned in order to characterise a charcoal-based pit and the second to explore the inner stone facing of Rampart 1.

De-turfing and all subsequent excavation was conducted by hand. Each archaeological context was photographed, drawn, and described. Fills and deposits were sampled (in two 5L bags of each context or as much as possible) so that possible dating evidence could be retrieved. A series of monolith micromorphology samples were taken of the complex deposits within Ditch 1 with the possibility of post-excavation analysis. To organise and facilitate recording during excavation the trench was divided into five areas (A, B, C, D and E), which were defined as follows:

- Area A: the N edge of the trench to the top of Rampart 1 (the interior).
- Area B: the top of Rampart 1 through Ditch 1 to the top of Rampart 2.
- Area C: the top of Rampart 2 through Ditch 2 to the top of Rampart 3.
- Area D: the top of Rampart 3 through Ditch 3 to the top of Rampart 4.

Area E: the top of Rampart 4 south to the limit of excavation.

The apex of each rampart provided distinct zones of unrestricted vision between ramparts making plan and section drawing easier, working down slope between relative high points. However, these area labels will be dispensed with for the following description and discussion, which will instead consider the interior of the fort and each ditch and rampart in turn.

## Results

The fort consisted of four ramparts, with each of the inner three ramparts having an external ditch, likely the source for the construction material of the ramparts. No clear outer ditch was recorded during excavation. Traces of internal features survived under collapse within the inner edge of Rampart 1. The results will be outlined in the following section by describing the construction and collapse of each rampart and ditch, progressing outwards, and then finally the interior deposits. The relationships between each area and the various possible interpretations for the construction, use and collapse of the fort will be proposed in the Discussion section below.

### *Rampart 1 and Ditch 1 (Areas A & B) (see Figure 2)*

#### *i) Construction*

The natural subsoil cut by Ditch 1 and underlying Rampart 1 was a pinkish orangey medium brown silty clay (077). The cut of Ditch 1 [080] was 1.8m in maximum width and between 0.6 to 0.4m in depth. At the interface between the cut of Ditch 1 and the subsoil was a hardened layer of orangey brown silty clay (075), approximately 0.02-0.04m in thickness.

Only a few centimetres above the S edge of Ditch 1 a large sub-angular stone (083), measuring roughly 0.6m in length by 0.5m width and up to 0.25m in thickness, was recorded sitting on the natural subsoil. The first deposit of Rampart 1, above the natural, was a loose medium to dark brown silty loam (067), probably re-deposited topsoil. This deposit was noted on either side of the stone 083, but was largely mounded behind it. The second layer forming the rampart was a pinkish orange brown silty clay (032), presumably the natural up-cast from Ditch 1. Cut into this rampart material (032), at the S end, was a possible post-hole [078], measuring 1m by 0.66m and 0.46m in depth. This post-hole was filled with loose medium brown clayey silt and sub-angular packing stones (061). An inner stone facing or revetment (058) was integrated into the earthen core of the rampart on the S side (Figure 3). This internal facing was composed of local sub-angular bedrock and glacial erratics of varying sizes with larger stones at the base and smaller stones lying flat on the upper courses. Three courses had survived up to a height of 0.9m, but it likely stood much higher. The stone facing also may have incorporated the orthostat 082. This orthostat was angled into the post-hole 078 on the S side of the rampart.

#### *ii) Collapse*

Within Ditch 1 there were marked differences in deposits on the N side compared to those on the S side. The most noticeable difference was the presence of several thin lenses of charcoal rich and loose ashy deposits, (069), (070), and (073), which were recorded on the S side of the ditch (Figure 4). These charcoal-rich deposits were then partially sealed by a light grey silt and ash deposit (054), which spread across the bottom of the ditch, 0.1m in maximum depth. On top of the ash deposit 054, but again only on the S side of the ditch, was a discrete lens of light grey clayey silt, 0.2m in diameter and up to 0.06m in thickness (072) (not recorded in section). All of these layers were sealed by a fairly even spread of compact reddish brown clayey silt (068),

up to 0.1m in depth and spread across the width of the ditch. The upper boundary of this deposit was very clear.

A platform, approximately 3.0m wide, leading from Ditch 1 to Rampart 2 was constructed by levelling the natural subsoil (077). On to this, overlapping the upper edge of the N side of Ditch 1, a 0.6m wide layer of orange brown and grey mottled clay (053), up to 0.06m in depth, was deposited.

Within the base of Ditch 1, above the fills (053 & 068) a mixed deposit of clayey silt (041) was recorded on the N side. On the S side of Ditch 1 and extending over the N side of Rampart 1 was a deposit of rubble (005), consisting of sub-angular stones, ranging from 0.3m to 0.5m in length by between 0.15m and 0.3m in breadth (Figure 5). The stones were situated within a matrix of loose clayey silt (065/014). Although none of these stones (005) were noted *in situ* on the N face of Rampart 1, some appear to only to have slipped down the slope, and therefore suggesting a likely stone-wall or revetment on the outer face, which had later slumped into Ditch 1. There was a discrete lens of charcoal within the matrix (065) in the ditch. The stones (005) had settled into the ditch deposit (041) with the matrix (065) accumulating behind and around the rubble.



Figure 3: *In situ* inner stone facing of Rampart 1



Figure 4: Charcoal spreads on face of Rampart 1 and in base of Ditch 1





Figure 5: Possible collapsed outer stone facing of Rampart 1 (005) during excavation

Loosely compacted silty sand (020), up to 0.1m in depth, had built up over the step to the S of Ditch 1. Lodged within the surface of this deposit was a large, roughly square, stone, measuring 0.55m in maximum dimension. Covering the rubble (005 & 065) within the ditch as well as the N edge of the step above the sand layer (020) was a charcoal-rich deposit of dark pinkish brown clayey silt (018) with occasional flecks of orange baked clay. This mixed layer filled the entire width of the ditch and contained the best-preserved example of prehistoric pottery (SF 010). A pale grey and mottled silt (013) filled the remaining hollow of the ditch. Above this the ditch and step were covered with a homogenous deposit of reddish brown clayey silt (081), up to 0.46m thick.

### *Rampart 2 and Ditch 2 (Areas B & C) (see Figure 2)*

#### *i) Construction*

A natural deposit of compact pinkish orange brown clayey silt (066) lay under Rampart 2. Above this was another layer of natural clayey silt (030). Cutting through these natural deposits Ditch 2 [028] measured 1.5m in width and up to 0.7m in depth. Ditch 2 also cut the natural that lay under Rampart 3: a medium pinkish grey and orangey brown compact sandy clay (046) and a similar but more compact and gravelly deposit (031) noted only above (046) on the S side of Rampart 3. A compact layer of silty clay (050), 0.3m in width and 0.05m in depth, was recorded in the base of the ditch. This compacted natural may be the remains of trample when the ditch was cut.

In the W-facing section (reversed in Figure 2) was a large boulder, measuring 0.6m in length and width by 0.5m in height, set on the surface of the natural (030), less than 1m above the S edge of Ditch 2. The first deposit of Rampart 1 was a loose light pinkish brown clayey silt (029). The second layer of Rampart 2, forming the largest proportion of the feature, was a mound of pinkish brown silty clay (076). This deposit of rampart material did not extend beyond the large stone noted set on the natural (030), mentioned above. The rampart measured overall 4m in width and up to 0.4m in height, but likely was originally much higher.

On the S side of Rampart 2, cutting the rampart material (076) was a triangular stone setting. Its cut [001] was 0.4m in length by 0.3m in width and 0.2m in depth. This setting was filled with sub-angular stones (002), measuring from 0.07m to 0.2m in size, and a matrix of light reddish brown clayey silt (004). Directly underneath and

coincident to the setting was a thin lens of yellowish brown clayey silt (008). The relationship between this feature and the rampart is unclear. This stone setting could be contemporary with the rampart or a later feature (see Discussion below).

#### *ii) Collapse*

The fills within Ditch 2 were a series of silty clay deposits (027, 026 & 025). The lowermost fill (027) was a medium brown silty clay of moderate compaction, with occasional inclusions of gravel. Above this, was a firm layer of greyish brown silty clay (026) with occasional inclusions of charcoal flecks. The uppermost fill (025) was a loose pinkish brown silty clay also with occasional charcoal fragments.

Above the upper rampart layer (076), on the N face of Rampart 2, was a loose pinkish brown clayey silt (011). This deposit was slumped material from the rampart towards Ditch 2. The similarity between this slump and the uppermost fill of Ditch 2 (025) suggests that they are the same layer. On the S face of Rampart 2, which also caps the step and Ditch 1 to the S (as mentioned above) was the compact and mixed layer of reddish brown clayey silt (081).

#### *Rampart 3 and Ditch 3 (Areas C & D) (see Figure 2)*

##### *i) Construction*

Ditch 3 had cut [024/036] the natural subsoil under Rampart 3, a medium pinkish grey and orangey brown compact sandy clay (046) and the pinkish grey brown clay (074) under Rampart 4. The ditch measured 2.8m in width by 0.9m in depth. The sides of the ditch sloped steeply to a flattened base.

Rampart 3 was the broadest rampart, roughly 3m in width, and consisted of very homogeneous deposits making it difficult to differentiate discrete re-deposited natural deposits from *in situ* natural or later slumping of the rampart. The earthen core of Rampart 3 may have come from either Ditch 2 or Ditch 3, or both. A large angular stone measuring 0.3m in maximum dimension was noted sitting on the natural subsoil (046) at the edge of the cut for Ditch 3 (Figure 6). The first recognised deposit for Rampart 3 was a loosely compact light brown sandy silt (039), up to 0.3m in thickness. Small charcoal inclusions within this deposit may be later contamination worked down by tree roots. This initial rampart deposit tapered out towards Ditch 3. The second layer of Rampart 3 was a dark brown clayey silt (038) spread across the width of the rampart, 4m, and up to 0.2m in thickness.

On the upper S side of Rampart 3, within its upper material (038), was a line of rolled cobbles and sub-angular stone (average 0.2m in diameter) within a silt matrix (019). This alignment stretched across the width of the trench and was up to 0.6m in breadth. These stones may be the traces of collapsed packing for a palisade slot; however, the cut of neither a slot nor any individual post settings were visible.

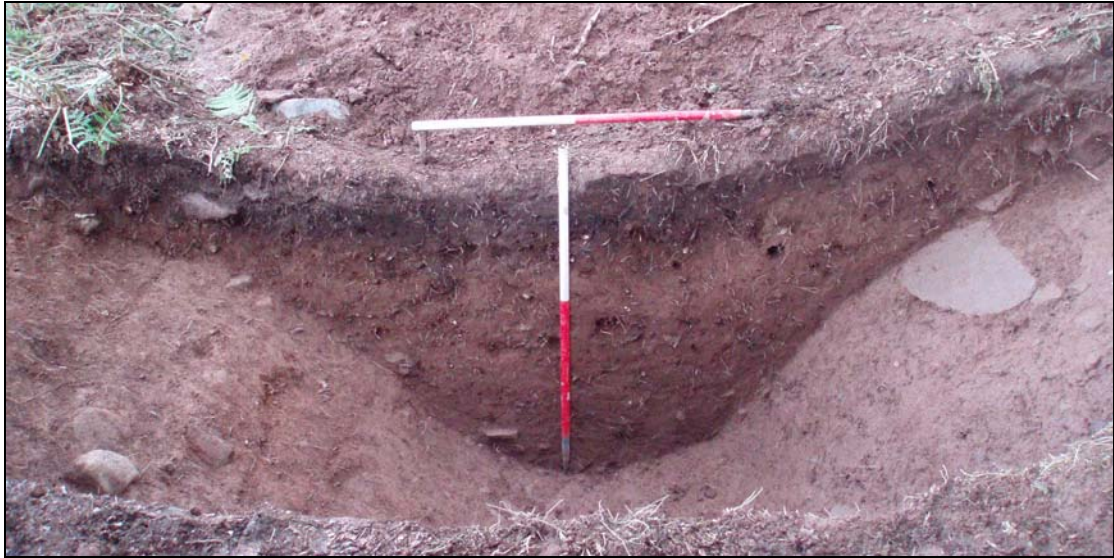


Figure 6: W-facing section of Ditch 3 showing large stone sitting at the edge of the ditch cut

*ii) Collapse*

All of the fills within Ditch 3 were very similar; all were variations of pinkish orange brown clayey silt (023, 035 & 034). These fills were probably slumped material from the collapse of Rampart 3 and/or 4. The upper deposit of Rampart 3 (038) was very similar to the upper fill of Ditch 3 (034) and both were subject to heavy root disturbance, thus making it difficult to determine the boundary between the constructed rampart and the slumped material in the ditch.

*Rampart 4 and Exterior (Area D & E)*

*i) Construction*

The natural subsoil under Rampart 4 was a pinkish grey clay (074) and pinkish grey brown sandy clay (045). Several sub-angular stone slabs (052) were set on the surface of the natural subsoil, along the N edge of Rampart 4 (Figure 7). These stones form part of a longer alignment that was visible protruding from the topsoil all along the N edge of the denuded remains of Rampart 4. Within the excavated area there were no clear traces of an external ditch.



Figure 7: Stone revetment (052) on the edge of Rampart 4

The primary deposit of Rampart 4, measuring about 1.5m in width, was a loose dark brown loam (055) with occasional sub-angular and degraded stone inclusions. However, the relationship between the cut of Ditch 3 and this initial rampart deposit was uncertain. This deposit did not extend beyond the stones (052) sitting on the natural. The secondary layer of Rampart 4 was composed of alternating lenses of thin pinkish orange brown lenses of clay and loam (044).

*ii) Collapse*

To the N of Rampart 4, extending to the end of the excavation trench, was a dark grey orangey brown clay (048). This may be slumped material from the upper layers of Rampart 4, but probably heavily disturbed by later plantation activities. The slumping of the upper layers of Rampart 4 also probably contributed to the fills of Ditch 3.

*The Interior (Area A) (see Figure 2)*

*i) Subsoil and the Old Ground Surface*

The subsoil within the interior of the fort was similar to that discovered throughout the trench, a pinkish orangey medium brown silty clay with fragments of bedrock (016). Above this were at least two discrete deposits of loose reddish brown loam (059), spread up to 0.6m S from the inner face of Rampart 1. This has been interpreted as either traces of an old ground surface (OGS), which has been completely truncated by later use and erosion to the S, or part as of the initial dump of re-deposited topsoil that formed Rampart 1, similar to (067) (see above).

*ii) Construction*

Immediately inside Rampart 1, only 0.2m S of the inner stone facing (058 & 082), and above the reddish brown loam (059) was a very thin deposit of charred twigs and fragments of charcoal (079), measuring 0.03m in maximum in thickness. This deposit was preserved under a large flat stone with an undulated surface, measuring 1.05m in length by 0.5m in width and 0.2m in depth (Figure 8). The stone was part of a larger spread of flat stones (056) located just within the inner facing of Rampart 1. Although some of the stones overlapped each other, this may have been a result of later disturbance and collapse. To the S of these stones (056) stood an orthostat and associated stone setting (063), measuring 1m from E to W by 0.4m in width. The phase in which this orthostat was positioned was unclear and it may have been erected at a later phase (see Discussion below). This stone appeared to divide the flat stones (056) that lay next to the inner face of the rampart from an arc of flat stones (062, 015 & 003), which extended to the S. A shallow curvilinear foundation trench (062) was cut into the subsoil into which the flat slabs (003) were placed and surrounded by a fill of greyish medium brown clayey silt with inclusions of ash pockets and charcoal fragments (015/006) (Figure 9). At the outer edge of these stones a hammerstone (SF 014) and another rounded stone were positioned. This arc of stones measured approximately 4.0m from N to S by up to 0.7m in breadth and was slightly curved toward the E baulk. These stones may have been a paved surface or the basal remains of a structure.



Figure 8: Large flat stone lying near the edge of the inner stone facing of Rampart 1



Figure 9: The arc of flat stones (003) within the interior of the fort

### *iii) Collapse*

Charcoal and ash (057) was recorded within the cracks and underneath some of the flat stones 056. Yet, a distinct thin smear of charcoal (071) was noted on top of these stones. Above this were 0.2m thick dark grey mottled silt/ash deposits (042 & 060). The southern extent of a layer of yellow silt, or perhaps ash, 0.15m to 0.1m thick, was recorded above 042 just within the inner stone facing of the rampart. This layer seemed to be coincident with presumably absent inner facing stones of Rampart 1.

Above these mottled silt or ash layers was stone rubble, probably collapse from the inner facing of Rampart 1 (064). Extending up to 1.5m S from edge of the rampart, the rubble consisted of sub-angular and angular stone of varying sizes (between 0.5m and 0.1m in maximum dimension). One of the stones may have been an old pivot stone (SF 030). The extent and thickness of the ash and rubble tapered away from the rampart and for the most part their extent northwards appears to have been blocked by the orthostat 063. Also above the slumped deposit 042, was a mixed layer of reddish brown clayey silt (021), with occasional patches of ash and inclusions of charcoal. This layer may have formed at a similar time as the rubble 064. Sub-angular stones were recorded within 021 along the eastern side of the S edge of Rampart 1. To the S of orthostat 063 a small concentration (0.31m by 0.29m) of burnt bone and dark grey charcoal (022), perhaps a part of context 021, was recorded on top of the fill of the paving stones (015).

Sealing both the slumped deposit 021 and the rubble 064 was a relatively thick, up to 0.35m, layer of orangey sandy clay with inclusions of charcoal, burnt bone and small to medium stones (017). Like the other collapse deposits described above it too tapers away from Rampart 1, but this layer extends much further, approximately 3.5m S from the rampart. This context is likely the slump from the earthen core of Rampart 1, which once it had lost its stone facing was prone to erosion and slumping over time.

#### *Other Features*

A pit [043] was recorded about 4m from Rampart 1 and approximately 0.3m to the W of the arc of paving stones (003/015). Roughly oval on plan, the pit measured 1.6m in length by 0.6m in breadth and cut the deposit (017). The initial fill of this pit, located at the edges, consisted of a mottled red and orange turf ash deposit (051). Above this was a layer of dark grey and black ash with charcoal flecks (037), 0.06m to 0.02m in thickness. These layers may indicate *in situ* burning of earth and charcoal. On top of this was a mixed layer of grey ash (033) and followed by thick deposit of loose silt (012) with occasional flecks of charcoal and burnt bone.

To the S of this was an irregular oval root hollow [049], measuring 0.6m in length by 0.2m in breadth and 0.12m in depth. It was filled with a mottled grey ash (007) with occasional charcoal inclusions.

#### *Topsoil*

Sealing all of the contexts recorded in the trench was a layer of topsoil (010): a dark brown loose silty loam, on average 0.15m in depth. Two possible traces of tree boles (or activity associated with the plantation), not recorded separately, but recorded as thicker bowl-shaped accumulations of the topsoil were located at the N side of Rampart 4 and above Ditch 1.

### **Discussion**

In the following section a general sequence for the construction and the collapse of the hillfort will be outlined. The character of the archaeological deposits and the possible relationships between various features will be explored. It is important to emphasise here that the interpretations are preliminary and limited by the restricted nature of the excavations. These limitations and other interpretive issues that emerged during the excavation will also be discussed below.

#### *Subsoil*

Although the natural subsoil was given separate context numbers in each area, there were only two distinct subsoil types in the trench. Uphill, at the top of the trench the subsoil was a pinkish orange-brown silty clay and by midway down, under Rampart 3, the subsoil had changed to a more pinkish grey-brown sandy clay.

#### *Construction*

The primary deposits in the trench related to the construction of the ramparts. It was not possible to determine the chronological relationship between the four ramparts. All of the ramparts had an earthen core and all appear to have sat directly on the natural subsoil. No earlier features or any relict ground surfaces were identified under the ramparts. However, it may be possible that the initial material forming the base of Rampart 1 (068/059) was re-deposited topsoil scraped off the top of Ditch 1. This deposit may have obscured or blended in with *in situ* topsoil as no clear turf line

was visible. The initial dumps forming the core of all of the other ramparts (029, 039 & 055) were similarly loose and composed predominantly of silt which may also have had a topsoil component.

The external ditches of each of the ramparts were convenient quarries for construction material. The upper layers of each of the ramparts (032, 076, 038 & 044) were very similar to the underlying subsoil. It is possible that the soil dug from the ditches was thrown uphill, a relationship that may be best observed between Ditch 1 and Rampart 1. Large *in situ* sub-angular stones were noted sitting on the natural subsoil at the S edge of all the ramparts (although this is not visible in section for Rampart 3). These stones may have been used to hold back the rampart material as it was thrown up. At the base of both Ditch 1 and 2 there was a lens of compacted material, (075) and (050) respectively. Following the line of the ditch cuts, this material was interpreted as a lens of natural clay that was disturbed during the construction of the ditch, which had become compacted by the later deposits that filled the ditch.

All four ramparts share a similar earthen core construction. However, there is evidence that Rampart 1, 2 and 3 may also have had a timber element. A large post-hole [078] identified on the N side of the crest of Rampart 1 and poorly preserved stone settings near the summit of Rampart 3 and Rampart 2, (019) and (001) respectively, may be the residual traces of palisades that once stood on these ramparts.

Although generally similar in construction, Rampart 1 is distinguished from all the others. Firstly, it appears to have been the only one that may have been built as a complete circuit. Secondly, compared to the stone settings noted on Ramparts 2 and 3, the relatively larger post-hole in Rampart 1 perhaps reflects a distinct timber feature erected on this rampart. And thirdly, Rampart 1 was the only one to have an inner stone face (058) and a probable outer stone face (see 005). The inner stone facing was best preserved in the second extension to Area A. This facing was integrated into the upper rampart mound (032) and was composed of at least three courses of sub-angular stones, which probably derived from local sources: including glacial erratics and quarried stone from the outcrops frequently protruding from the summit of this hill. Although there was a 1.4m gap between surviving stone facing in Area A ext.2 and the orthostatic boulder (082), this boulder, a glacial erratic, appeared to be in line and thus part of the inner stone face. No stones for an outer stone facing of Rampart were found *in situ*. However, the pattern of collapse of the stones 005 suggests they may have slid only a small distance out from the steep face of the upper rampart mound (032). These collapsed stones are perhaps the remains of an outer facing which used the revetment stones situated on the natural subsoil (083) as a foundation.

Unusual deposits of yellowish fine-grained material (009 & 008/001) were noted on the outer faces of Rampart 1 and associated with the stone setting [002,004] on Rampart 2. It was difficult to determine what this material was during excavation. It could have been ash dumps or turves. Coincidentally, these deposits appear to lie under or are associated with stone features. The deposit 009 was located on the inner face of the rampart along the gap where the inner stone facing was either not built or had fallen away (although it did extend for a short distance under some of the facing – but only ones which may have slumped from their original position). In any case, the function of this material is unclear.

Within the interior of the fort, the initial dump of re-deposited topsoil that formed the base of Rampart 1 had spread into the interior (059), and was separated from the

rampart by the inner stone facing. The best-preserved archaeological deposits in the interior were located just inside Rampart 1, under layers of collapse. Above the re-deposited topsoil, and thus later than the construction of the rampart, was a patch of charred twigs (079), which in turn was sealed by a large flat stone which was part of a layer of flat stones (056) immediately within the rampart. The area of flat stone paving appears to have continued further into the interior beyond an orthostat (063), forming an arc of stones (003). The arc of flat stone (003) could also have been the footing for a timber structure or perhaps defined an enclosed area such as a yard. The orthostat, dividing the areas of flat stones, may have either been part of the initial construction of paving, or may have been erected at a later phase, perhaps defining a corridor, roughly 0.6m wide, parallel to the inner stone face of Rampart 1, and disturbing the paved feature. Either way, it is probable that these areas of paving were contemporary with Rampart 1.

*Possible Evidence for Multiple Phases of Construction*

The sequence of construction, use and collapse of this hillfort may not have been simple, but instead it may undergone several phases of construction. For instance there is some evidence that Rampart and Ditch 1 were 'remodelled' or modified after a period of collapse or destruction.

As mentioned, Rampart 1 can be distinguished from the other ramparts by its stone facing (058). The chronological relationship between this facing and the possible timber component of the rampart, as evidenced by a post-hole [078], is not straightforward. The orthostat (082), which defines the northern edge of the post-hole, is slumped inward obscuring the stratigraphic relationship between these features. One possibility is that the inner stone facing, represented by the orthostat (082), was in place prior to the cutting of the post-hole [078] or that it was part of the timber erection which had slumped after the post was either removed or decayed. However, another possibility is that the orthostat was positioned after the post-hole was no longer in use. Thus it may be suggested that the inner stone facing, or at least a repair of this facing, was secondary to a timber phase of the rampart construction.

The deposits within Ditch 1 also show that a timber component of the rampart burnt down before the stone facing collapsed, and it is possible that the face of the ditch was re-cut between these events. The initial fills within Ditch 1 were thin lenses of ash and charcoal, deposited along the face of Rampart 1 and into the N side of the ditch (069, 070, & 073). Above this was a larger deposit of ashy material (054). Based on the location and extent of these charcoal deposits it is probable that they came from wood burnt on top of Rampart 1. These ash deposits were quite distinct and not mixed with any other debris or collapsed material. Above the ash deposits was a layer of reddish brown clayey silt (068). This is a significant layer. It covered almost the whole width of the ditch and was of fairly uniform depth. Although this layer did not cover the upper S face of the ditch, a similar deposit of orange brown clay (053) did extend over the S face. These layers mark a distinct change in deposition from the charcoal and ash deposits. The upper surface of 068 was so clear and similar to the surrounding subsoil that it was initially interpreted as the cut of Ditch 1 [047], but as lenses of charcoal were noted beneath this, this interpretation was abandoned. It is possible that these silt and clay layers marked a re-modelling of the ditch, a point at which the cut of the ditch was re-established. Above the layers 068 & 053 was a deposit of clayey silt (041) and then, or perhaps even at the same time, stone rubble and matrix (005 & 065) slid down into the ditch. As mentioned above these stones likely formed an outer facing for the rampart. The nature of this distinct layer of rubble suggests a rapid collapse.



A similar sequence of destruction and collapse was noticeable on the N side of Rampart 1. Above the earthen core of Rampart 1 and at the base of the inner face were thin charcoal spreads (057 & 071), as well as above and in between the cracks of the stone paving (056). A thicker, more extensive and more mixed layer of ashy material (042) sealed these distinct charcoal deposits within the interior of the fort. Rubble from the collapse of the inner face (064) and matrix from the core of the rampart (021) was only recorded above 042. Therefore there appears to be a distinct phase of burning, of which the evidence is found amongst structural features. This burning phase occurred prior to the wholesale collapse of Rampart 1.

#### *Collapse and Possible Phasing of the Ramparts*

Once the stone facing collapsed from Rampart 1 the earthen core slumped and spread to either side, filling Ditch 1. The other ramparts were predominantly, if not completely, made of earth. When they were no longer maintained, these earthen ramparts also slumped, filling up the ditches with collapsed material. Both Ditch 2 and 3 were filled by three layers of fairly homogeneous re-deposited natural, suggesting that the ramparts collapsed fairly rapidly into the bases of the ditches. In both cases the boundary of the uppermost fill of the ditch (025 & 034) could not be clearly differentiated from the slumped earthen material from the Rampart 2 and Rampart 3 (011 & 038 respectively).

It is clear from the construction of Rampart 1 and the evidence for its collapse within Ditch 1 and the interior, that it was distinct from the other three ramparts. However, from the excavation there was very limited evidence to suggest any chronological sequence for the ramparts and few dateable artefacts were retrieved. The complexity of the deposits within Ditch 1 compared to the relatively more homogeneous silts of the other two excavated ditches may suggest that Ditch 1 was open for a longer period; long enough to accumulate two potentially distinct phases of deposition. It may be possible that the step between Ditch 1 and Rampart 2 was levelled just prior to, or at the same time as, the deposition of the clayey silt layer (068) within Ditch 1. This step may have been part of the re-modelling of Ditch 1. The step did not cut into Rampart 2 and was assumed to have been levelled before the rampart's construction, therefore suggesting that Rampart 1 was created before Rampart 2. Without any stratigraphic relationships, it is more difficult to propose any chronological sequence between the two outer ramparts, Ramparts 3 & 4. Based on their similar physical characteristics they may have been built at approximately the same time as Rampart 2.

#### *Later Activities in Jackschairs Wood*

After the abandonment of the fort and the collapse of the ramparts there appears to have been comparatively little activity on the site of the fort. The establishment of the plantation, which occupied the fort at least since the mid-19<sup>th</sup> century (see the 1<sup>st</sup> edition of the OS 6-inch map 1856-66), dramatically affected how this low-lying hill was to be used. Although the fort may have survived being levelled during field improvements, in many other ways the archaeology has suffered from the plantation. Features were likely damaged as the trees were planted and most of the deposits appear to have been infiltrated and contaminated by the deep tree roots. In the N end of the trench, a 0.6m long charcoal-filled feature [049] was likely the remains of a burnt tree root.

A large oval pit [043] within the interior of the fort appeared to have cut through debris from the collapse from the earthen core of Rampart 1 (017) and therefore it is a later feature. There was charcoal and topsoil mixed within its fill. Although the date and function of the pit is uncertain, it may relate to the maintenance of the plantation. The pit may have been dug to burn brash or for charcoal-making.

### *Preservation of the Hillfort*

After the initial, and perhaps rapid, collapse of the rampart there came a point when the collapsed slowed. The ramparts were not completely levelled but remained a visible feature in the landscape. The original heights of the ramparts are impossible to estimate as a considerable amount of soil could have moved downslope during its collapse. Although the ramparts are still visible, the results of the excavation showed differential preservation across the hillfort. The best preservation appeared to be immediately on either side of Rampart 1. The preservation of archaeological features was poor upslope, further away from Rampart 1. At the N end of the trench the topsoil lay directly over subsoil, to a depth of only 0.1m. Any evidence of structures or occupation in this area would have been severely truncated. The reason for this preservation pattern is unclear. The soils also appear to have been more denuded downslope, towards Rampart 4 and beyond. Rampart 4 was the lowest surviving bank. The ephemeral remains of Rampart 4 may be because it was initially smaller than Rampart 3, and because its position closer to agricultural land has resulted in plough truncation. It is possible that a stone revetment (052) on the S edge of the rampart was later re-worked as a boundary bank for the plantation, which may also have affected its preservation.

The lack of vegetation and limited topsoil beyond Rampart 4 suggests plough truncation and the disturbance is perhaps associated with a more recently planted conifer plantation. An external ditch to Rampart 4 was not located within the excavation trench. Since it was suggested that such an external ditch may lie just outside the excavated area a rapid auger transect was undertaken. The results of this transect were inconclusive as it was impossible to differentiate potential ditch fills of re-deposited natural from the *in situ* natural subsoil.

### **Conclusions**

The excavation in Jackschairs Wood showed the fort to be the main focus of activity on this low-lying hill. On the surface, the four ramparts appear to be similar and contemporary, but the results of the excavation has raised the possibility that there are several phases of construction and use of the fort, especially in and around the inner rampart. The site may have initially been defined by a single ditch and rampart, perhaps with a timber superstructure. After the timber had burnt down this rampart may have been re-built and faced with stone. The fort then expanded outwards with the addition of three more ramparts and at least two ditches. There may have been several structures or stone-paved activity areas immediately within the inner rampart.

The excavation was exploratory and therefore only general interpretations and observations can be made. Post-excavation analysis and dating of some of the deposits may change these interpretations. The excavation raised many questions about the use of the fort. The restricted area within the inner rampart which could have been inhabited suggests that the site was not simply a defended settlement. The significance of the central outcrop, sitting prominently within the ramparts, has yet to be explored and it is recommended that any future excavations target the summit of the hill, as well as opening a larger area immediately within the inner rampart, perhaps near the entranceway, to illuminate what activities were carried out there.

Although the ramparts are still upstanding, the preservation of archaeological deposits have suffered from erosion and contamination. The most complex and deepest deposits were found on either side of the inner rampart and these deposits will play an important role in post-excavation analysis. The preservation deteriorated

down slope as well as towards the top of the hill. Jackschairs Wood is unusual example of an upstanding hillfort situated on a low-lying hill within the zone of agricultural improvement. Many other similar forts have been reduced to cropmarks, such as Broxmouth, East Lothian. Any more detailed comparisons with Jackschairs Wood hillfort are limited at this stage and would require further excavations.

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### Appendices

#### i) Contexts

Context No.	Area	Type	Length (m)	Width (m)	Depth (m)	Description	Interpretation
001	B	Cut	0.4	0.3	0.2	Semi-circular arrangement of sub-angular stones	Stone setting on top of Rampart 2
002	B	Fill	0.4	0.3	0.2	Subangular stones, between 0.07m and 0.2m in dimension	Stones within stone setting on top of Rampart 2
003	A	Structure	4	0.70-0.50	0.1-0.05	An arc of flat subangular stones varying in size but average 0.30m long by 0.30m wide, by 0.05m thick. Arcs from NE to SW.	An arc of paving stones or possibly the foundations of a structure
004	B	Fill	0.4	0.3	0.1	Moderate compaction, light reddish brown clayey silt	Matrix within stone setting 001
005	B	Deposit	1.75	1.5+ (width of trench)	0.45	Slab-like sub-rectangular to sub-rounded stones 0.3-0.5m in length 0.15-0.3m in breadth	Tumbled stones on face of Rampart 1, possible stone facing/revetment
006	A						Same as 015
007	A	Fill	0.64	0.23	0.12	Loose compaction, dark grey sandy clay within occasional charcoal flecks and moderate ash	Possible animal burrow or pit
008	B	Deposit	1	1		Firm compaction, light yellowish brown clayey silt with occasional gravel	Light silt, possible turves or ash, under stone setting 001
009	A	Deposit	1.2	0.6-0.2	0.15-0.1	Loose compaction, yellow clayey silt or ash with occasional charcoal flecks	Possible ash or turve layer on the inner face of Rampart 1, coincident to where the inner stone facing has collapsed or did not exist
010	All	Deposit	All	All	0.1-0.3	Loose compaction, dark brown silty loam	Topsoil
011	C	Deposit	1.5+ (width of trench)	1.2	0.3	Loose compaction, pinkish brown clayey silt	Slumped material on face of Rampart 2
012	A	Fill	1.6	0.8	0.2-0.1	Loose compaction, dark brown with occasional yellow brown mottled silt, occasional <0.05m angular stones and charcoal and burnt bone flecks	Upper fill of pit 043

013	B	Fill	0.9	1.5+ (width of trench)	0.2	Moderate compaction, pale grey with some darker mottled silt, occasional pebbles and charcoal flecks	Possible post-abandonment silting up of Ditch 1
014	B						Same as 065
015	A	Fill	4	0.70- 0.50	0.05	Moderate compaction, greyish dark to medium brown clayey silt and ash, occasional charcoal	Matrix surrounding arc of stones 003 within hollowed curvilinear cut 062
016	A	Deposit	4+	1.5+ (width of trench)	n/a	Hard to moderate compaction, pinkish and orangey brown silty clay, moderate subangular stone with exposed areas of bedrock	Natural
017	A	Deposit	4	3.8	0.35 (maxi mum)	Moderate to loose compaction, orangey dark to medium brown sandy clay with occasional charcoal, burnt bone flecks, yellow ash and very occasional gravel and stones. Tapers towards the S	Mixed collapsed material from Rampart 1
018	B	Deposit	1.75	1.5+ (width of trench)	0.1- 0.15	Hard compaction, dark pinkish brown clayey silt with occasional charcoal flecks, baked clay and small stones	Mixed collapse from Rampart 1 and debris spread on the top of Ditch 1
019	C	Deposit	1.5+ (width of trench)	0.6	0.2- 0.25	Frequent subangular stone, with loosely compacted dark brown silt matrix	Cobbles and subangular stones at apex of Rampart 3, possible collapsed packing of a palisade slot
020	B	Deposit	1.3+	1.3	0.1	Moderate to loose compaction, light pinkish grey silty sand with very occasionally charcoal flecks and pebbles	Surface deposit on step between Ditch 1 and Rampart 2
021	A	Deposit	2.2	0.6-0.4	0.3-0.2	Moderate compaction, reddish brown clayey silt mottled, occasional to moderate charcoal flecks, ash and yellow patches	Collapse and slump from Rampart 1, similar to 017 but with more ash
022	A	Deposit	0.31	0.29	0.01- 0.02	Loose compaction, dark grey and brown sandy clay with occasional charcoal flecks and burnt bone	A concentration of ash with burnt bone on top of the arc of flat stones 003
023	D	Fill	2.8	1.5+ (width of trench)	0.7	Moderate to loose compaction, pinkish orange brown clayey silt with occasional sand, small stones and iron staining	Basal fill of Ditch 3
024	D	Cut	2.8	1.5+ (width of trench)	0.9	U-shaped in profile, gradually sloping sides to a flattish base	Cut of Ditch 3
025	C	Fill	1.8	1.5+ (width of trench)	0.55	Loose compaction, pinkish brown silty clay with occasional charcoal flecks and pebbles	Upper fill of Ditch 2
026	C	Fill	1	1.5+ (width of trench)	0.5	Hard compaction, greyish brown silty clay with very occasional charcoal flecks	Secondary fill of Ditch 2
027	C	Fill		0.6	0.15	Moderate compaction, dark brown silty clay with occasional gravel	Lower fill of Ditch 2
028	C	Cut	1.5	1.5+ (width of trench)	0.7	U-shaped in profile, steeply sloping sides to a rounded base	Cut of Ditch 2
029	C	Deposit	1	1.5+ (width of trench)	0.5	Moderate to loose compaction, light pinkish brown clayey silt with occasional charcoal flecks and small angular stones	Upper Rampart 2 material
030	C	Deposit	2.5	1.5+ (width of of	0.3	Hard compaction, pinkish brown clayey silt	Lower hard material of Rampart 2

				trench)			
031	C/D	Deposit	0.9	1.5+ (width of trench)	n/a	Hard compaction, medium pinkish grey brown sandy clay with gravel	Natural under Rampart 3
032	A/B	Deposit	1.5+ (width of trench)	2.5	0.25-.4	Hard compaction, pinkish orangey brown silty clay with occasional small stones	Upper deposit of Rampart 1
033	A	Fill	1.41	0.25	0.05	Loose compaction, light brown and mottled sandy clay with frequent patches of ash and occasional charcoal flecks and rounded stones	Ash deposit within pit 043, above 037.
034	D	Fill	2.1	1.5+ (width of trench)	0.2	Moderate compaction, orangey brown clayey silt with occasional roots, gravel and small stones	Upper fill of Ditch 3
035	D	Fill	1.5	1.5+ (width of trench)	0.35	Moderate compaction, pinkish brown clayey silt with occasional roots, gravel and small stones	Medium fill of Ditch 3
036	D						Same as 024
037	A	Fill	0.6	0.6	0.06	Loose compaction, dark grey and reddish brown silt/ash with occasional charcoal flecks	Burnt dark greyish ash under 033 in pit 043
038	D	Deposit	4	1.5+ (width of trench)	0.1	Moderate to loose compaction, dark orange brown clayey silt	Redeposited natural material of Rampart 3
039	D	Deposit	2	1.5+ (width of trench)	0.03- 0.04	Hard compaction, light brown clay silt	Lower material of Rampart 2
040	D						Same as 044
041	B	Fill	1.2+	1	0.2- 0.25	Hard compaction, greyish pink brown clayey silt with occasional charcoal flecks	Collapse from Rampart 1 into Ditch 1
042	A	Deposit	1.8	0.8	0.2	Moderate to loose compaction, dark grey and yellow mottling silt/ash	Mixed ash accumulation, abutting the S side of Rampart 1
043	A	Cut	1.6	0.6	0.35	Oval in plan, break of slope steeper at the top but generally gradually sloping sides to a slightly rounded base, aligned N to S	Cut of ash/fire pit
044	E	Deposit	2.7	1.35+	0.5	Loose compaction, dark orange brown clay and silt with occasional degraded sandstone	Upper redeposited natural material of Rampart 4
045	E	Deposit	2.4	0.4+	n/a	Hard compaction, pinkish grey brown clay	Natural boulder clay
046	C	Deposit	1.5+ (width of trench)	0.93	0.05- 0.2	Hard compaction, medium pinkish grey and orangey brown sandy clay with occasional small pebbles	Natural boulder clay under Rampart 3
047	B	Cut	1.2	1.4	0.6	U-shaped in profile, with steep sides	Possible re-cut or second phase of Ditch 1
048	E	Deposit	1.55	1.5+ (width of trench)	0.1-0.3	Hard compaction, dark grey orangey brown clay with occasional small pebbles	Collapsed material of Rampart 4
049	A	Cut	0.64	0.23	0.12	Elongated oval in plan, steep break of upper slope but more gradual at U-shaped base, aligned NE-SW.	Possible tree root, filled by 007
050	C	Fill	0.3	1.5+ (width of trench)	0.05	Hard compaction, pinkish brown silty clay	Compacted natural clay along the base of Ditch 2
051	A	Fill	0.5	0.30- 0.1	0.06	Loose compaction, orange and red-orange ash with occasional	Burnt turf and ash under 037, base of pit

						charcoal flecks	043
052	E	Structure	0.65	0.35	0.35	Singular line of subangular stones aligned E to W, along the N edge of Rampart 4	Stone revetment of Rampart 4, possible plantation wall
053	B	Deposit	0.6	1.5+ (width of trench)	0.03-0.06	Hard compaction, orange brown with grey mottling clay, occasional small angular stones and pebbles	Clay on surface of step between Ditch 1 and Rampart 2
054	B	Fill	0.85	1.5+ (width of trench)	0.05-0.1	Hard to moderate compaction, light grey silt with occasional charcoal patches	Ashy deposit within Ditch 1
055	E	Deposit	1.5	1.5+ (width of trench)	0.25	Loose compaction, dark brown loam	Lower material of Rampart 4
056	A	Structure	1.4	0.5	0.2-0.1	Subangular flat stones of varying size, some overlapping each other, one was textured and very large (1.05m by 0.5m by 0.2m deep)	Possible stone paving immediately S of Rampart 1
057	A	Deposit	1.4 (in patches)	0.2	0.2-0.1	Loose compaction, grey/black ash with moderate charcoal flecks	Charcoal and ash within cracks of stone paving 056
058	A	Structure	1.4	0.4	0.9-0.76	At least three courses of subangular stones of varying sizes, larger stones at the base with a mix of smaller facing stones and flat stones in the upper courses, large orthostat in the W baulk may be part of this facing	Inner stone facing of Rampart 1
059	A	Deposit	1	0.6	0.05-0.02	Moderate to loose compaction, reddish orangey brown loam with occasional small stones	May be the remains of the old ground surface (OGS) immediately S of Rampart 1
060	A	Deposit	1.2	0.4	0.2	Moderate to loose compaction, dark grey and reddish brown mottled clayey silt and ash with occasional small stones and charcoal flecks	Mixed ash accumulation immediately S of inner rampart
061	A	Fill	0.9	0.66	0.4	Loose compaction, medium brown silty clay matrix surrounding sub-angular packing stones ranging from 0.3-0.15m long by 0.15-0.05m wide.	Fill of possible post-hole/palisade on top of Rampart 1
062	A	Cut	4	0.7-0.5	0.2-0.1	Curvilinear in plan, a shallow cut with gradual breaks of slope and gently sloping sides leading to an irregular base of bedrock	Foundation cut for possible paving stones 003
063	A	Structure	1	0.4	0.5	Large orthostat of conglomerate (bedrock) (0.75m by 0.28m) with smaller stones deliberately set at an angle around it	Stone dividing areas of stone paving 003 & 056
064	A ext. 2	Deposit	2	1.5	0.4-0.3	Subangular and subrounded stone of varying sizes tumbled top of each on top of 042 with a loose matrix of medium brown silt	Stone rubble from inner facing of Rampart 1
065	B	Deposit	2	1.5+ (width of trench)	0.45	Loose compaction, medium to dark brown clayey silt	Matrix built up around tumbled stones 005, N side of Rampart 1
066	C	Deposit	3+	1.5+ (width of trench)	n/a	Hard compaction, pinkish orange brown clayey silt	Natural under Rampart 2
067	B	Deposit	1.8	1.5+ (width of trench)	0.1-0.4	Loose compaction, medium to dark brown silty loam, with occasional small stones	Lowest deposit, possibly redeposited topsoil, forming Rampart 1

068	B	Deposit/ Fill	0.8-0.6	1.5+ (width of trench)	0.05- 0.1	Hard compaction, reddish brown clayey silt	A lower fill of Ditch 1
069	B	Deposit	0.3	0.2	0.02- 0.03	Loose compaction, yellow brown ashy silt	Discrete deposit on S face of Rampart 1
070	B	Fill	0.6	1.5+ (width of trench)	0.02- 0.05	Hard compaction, black organic and charcoal-rich ash	Organic smear on N side of Rampart 1 spread into Ditch 1
071	A ext. 2	Deposit	2.5	1	0.01	Moderate to loose compaction, black silt/ash	Charcoal smear, possible burning of timber superstructure, on top of stones 056
072	B	Fill	1.5+ (width of trench)	0.2	0.05- 0.06	Hard compaction, light grey clayey silt	Compact deposit on N face of Rampart 1, under 068
073	B	Deposit	0.6	0.2	0.01- 0.03	Hard compaction, mottled yellow and medium brown clayey silt	Charcoal rich ashy deposit in Ditch 1 and on N face of Rampart 1
074	D/E	Deposit	2.3	0.7	n/a	Hard compaction, pinkish grey clay with occasional pebbles	Natural under Rampart 4
075	B		0.3	1.5+ (width of trench)	0.05	Hard compaction, pinkish brown silty clay	Compacted natural clay along the base of Ditch 1
076	C	Deposit	4	1.5+ (width of trench)	0.4	Moderate compaction, pinkish brown silty clay with occasional small stones and gravel	Upper material of Rampart 2
077	A/B	Deposit		1.5+ (width of trench)	n/a	Hard compaction, pinkish orangey brown silty clay	Natural under Rampart 1
078	A/B	Cut	0.9	0.66	0.4	Shape in plan obscured by burrowing, U-shaped in profile with a gently sloping S side, while the N side defined by orthostat, filled with 061	Cut of possible post- hole on top of Rampart 1
079	A ext. 2	Deposit	0.6	0.4	0.03- 0.01	Loose compaction, dark grey, black silt/ash with frequent charcoal fragments	Burning phase under flat stones 056
080	B	Cut	1.8	1.5+ (width of trench)	0.4-0.6	U-shaped in profile with steeply sloping sides and rounded base	Primary cut of Ditch 1
081	B	Deposit	3.5	1.5+ (width of trench)	0.46	Hard compaction, medium reddish brown clayey silt	Thick deposit, possible rampart collapse, spread on top of Ditch 1 and the step to the N
082	A	Structure	0.8	0.5	0.45	Orthostatic boulder, glacial erratic, slumped profile towards the N	Possibly part of the inner facing of Rampart 1, and possible support for timber post in post- hole 078,

*ii) Small Finds*

Small Finds No.	Area	Context	Feature Type	Material/ Description	No. of Pieces
001	C	011	collapse material from Rampart 2	lithic flake	1
002	A	012	upper mixed layer in pit	burnt bone	1
003	A	012	upper mixed layer in pit	burnt bone	1
004	A	012	upper mixed layer in pit	burnt bone	1
005	A	012	upper mixed layer in pit	round pebble pecked on one end/ possible hammerstone	1
006	A	012	upper mixed layer in pit	possible pottery/ burnt clay	1

007	A	017	mixed upper deposit/slump	burnt bone	1
008	B	014	same as 065 - tumble in ditch	possible pottery/ burnt clay	3
009	B	018	secondary ditch fill- after collapse	possible pottery/ burnt clay	1
010	B	018	secondary ditch fill- after collapse	pottery/ body sherd	1
011	B	018	secondary ditch fill- after collapse	possible pottery/ burnt clay	1
012	A	017	mixed upper deposit/slump	Charcoal	20+
013	B	041	fill of Ditch 1	possible lithic debitage	1
014	A	015	packing for flat slabs (possible structure)	possible hammerstone with bevelled end	1
015	A	017	mixed upper deposit/slump	Charcoal	5
016	A	042	charcoal and ash rich deposit	burnt bone	5
017	A ext 2	010/017	topsoil/mixed upper deposit/slump	burnt bone	1
018	A ext 2	017	mixed upper deposit/slump	burnt bone	1
019	A ext 2	017	mixed upper deposit/slump	burnt bone	1
020	A ext 2	017	mixed upper deposit/slump	burnt bone	1
021	E	044	cap of upper Rampart 4	green slate (possibly unusual to area)	1
022	A ext 2	017	mixed upper deposit/slump	burnt bone	1
023	A ext 2	017	mixed upper deposit/slump	burnt clay	1
024	A ext 2	071	charcoal smear above stones 056	burnt clay	1
025	A ext 2	017	mixed upper deposit/slump	burnt bone	1
026	A ext 1	037	charcoal rich layer in shallow pit	burnt bone and charcoal	2
027	A ext 2	079	charcoal smear under large stone in 056	Charcoal	22
028	A ext 2	079	charcoal smear under large stone in 056	burnt bone	3
029	A	unstrat		burnt bone	1
030	A	064	rubble from Rampart 1	worked stone (pecked in centre), possible pivot stone	1
031	A ext 1	012	upper mixed layer in pit	rubbing stone	1
032	A	unstrat		possible rubbing stone	1
033		unstrat		possible hammerstone	1
034	A	035		rounded cobble, possible hammerstone	1
035		unstrat		rounded cobbles, one possibly pecked	2
036		010	topsoil/mixed upper deposit/slump	rounded cobble	1
037		010	topsoil/mixed upper deposit/slump	possible worked stone	1

### iii) Drawings

Drawing No.	Area	Type	Description	Contexts	Scale
1	A	Plan	Pre-excavation of N end of area A	003, 015, 007, 016	1:20
2	A	Plan	Topsoil and 017 removed Area A	003, 015, 016, 012, 021, 022, 006	1:20
3	C	Plan	Post-excavation of Ditch 2	028, 029, 030, 031	1:20
4	A	Plan	Pre-excavation of area A extension 1	012, 016	1:20
5	D	Plan	Post-excavation of Ditch 3	024, 038, 040	1:20



6	A	Plan	Mid-excavation of Area A including extension 1	003, 015, 037, 042, 009, 016	1:20
7	B	Plan	Mid-excavation of Ditch S of Rampart 1	047, 020	1:20
8	E	Plan	S of Rampart 4	044, 045	1:20
9	A	Section	N-facing section of extension 1	043, 010, 012, 017, 033, 037	1:10
10	D	Section	Area D - amalgamated with drawing 12		1:10
11	D/E	Plan	Rampart 4	004, 045, 052	1:20
12	A ext 2	Plan	E-facing section extension 2	058, 064, 042	1:10
13	D	Section	W-facing section of Area D	010, 040, 046	1:10
14	C	Section	W-facing section of Area C	025, 026, 027, 029, 030, 031, 028	1:10
15	E	Section	W-facing section Area E, cap of Rampart 4	044, 052	1:10
16	A	Section	S-facing slot through 003, 015	003, 015, 062	1:10
17	A	Plan	Plan of flat stone inside inner face of Rampart 1	056, 057, 058, 003, 015	1:20
18	E	Section	W-facing section , cap of Rampart 4	010, 045, 048	1:10
19	D	Section	W-facing section Area D	024, 010, 023, 034, 035, 040	1:10
20	B/C	Section	E-facing section of Rampart 2 (1/3)	010, 029, 028, 030, 025, 026, 027	1:10
21		Plan			1:20
22	B/C	Section	E-facing section of Rampart 2 (2/3)	010, 011, 076, 029, 030	1:10
23	B/C	Section	E-facing section of Rampart 2 (3/3)	010, 076, 029, 030	1:10
24	B	Section	W-facing section of Rampart 1		1:10
25	A	Plan	Post-excavation of Area A including extension 2	016, 077, 058	1:20
26	A ext 2	Section	E-facing section of A extension 2	010, 017, 064, 042, 071, 059, 057	1:10
27	B	Section	E-facing section of Rampart 2	020, 001, 002, 004, 076	1:10
28	B	Section	E-facing section of Ditch 1	081, 013, 068, 054, 070, 018, 065	1:10
29	B	Section	Overlay of E-facing section of Ditch 1 showing micromorphology tins		1:10
30	A	Section	E-facing section of Area A immediately N and S of extension 2	010, 058, 032, 059, 09, 003, 042, 017	1:10
31	A	Section	W-facing section N of Rampart 1 to extension 1		1:10

*iv) Samples*

Sample No.	Area	Context	Sampling for					Reason
			Pot	Bone	Lithics	Botanics	Other	
001	B	004				x		To identify dateable material for stone setting
002	B	008				x		To identify dateable material for stone setting
003	A	061				x		To test the soil composition and to identify dateable material
004	B	013				x		To identify dateable material
005	B	014				x		To identify dateable material for collapse of Rampart 1
006	A	017				x		To identify dateable material for collapse of Rampart 1
007	D	023				x		To identify dateable material for the primary fill of Ditch 3

008	B	018	x			x		To identify dateable material for the fill of Ditch 1
009	B	020				x		To identify dateable material for collapse on to the step inbetween Rampart 1 & 2
010	C	025				x		To identify dateable material for the fill of Ditch 2
011	C	026				x		To identify dateable material for the fill of Ditch 2
012	C	027				x		To identify dateable material for the primary fill of Ditch 2
013	A	022		x		x		To identify dateable material for the destruction of interior features
014	A	021				x		To identify dateable material for the collapse of inner facing and matrix of Rampart 1 within the interior
015	A	033				x		To identify dateable material for the fill of possible later pit within the interior
016	B	018	x			x		To identify dateable material for the fill of Ditch 1
017	A	012				x		To identify dateable material for the upper deposit of the pit within the interior
018	B	041	x			x		To identify dateable material for the primary deposit within possible recut of Ditch 1
019	C	050				x		To identify dateable material for the primary fill of Ditch 2
020	A	007						To test whether it is the fill of an animal burrow
021	A	009				x		To test whether it is turf or ash within the inner face of Rampart 1 and to identify dateable material
022	A	037				x		To identify dateable material in later pit within the interior
023	A	051				x		To identify dateable material in later pit within the interior
024	D	040/044				x		To identify dateable material in Rampart 4
025	D	038				x		To identify dateable material in Rampart 3
026	B	053						To confirm if natural compacted material lining base of Ditch 1
027	B	054				x		To identify dateable material within the basal layers of Ditch 1
028	A	042				x		To identify dateable material for collapse of Rampart 1 within the interior
029	E	055				x		To identify dateable material in Rampart 4
030	A/B	032				x		To identify dateable material in Rampart 1
031	C	029				x		To test whether OGS within the interior
032	A	015				x		To identify dateable material within matrix of arc of stones in interior
033	A	060				x		To identify dateable material for collapse of Rampart 1 within the interior
034	D	039				x		To test whether natural deposit under Rampart 3
035	B	065				x		To identify dateable material for collapse of Rampart 1
036	C	030				x		To test whether natural deposit under Rampart 2
037	B	067				x		To identify dateable material for Rampart 1

038	B	068				x		To identify dateable material for initial ash deposits spread along outer face of Rampart 1
039	B	069				x		To identify dateable material for initial ash deposits spread along outer face of Rampart 1
040	B	070				x		To identify dateable material for initial ash deposits spread along outer face of Rampart 1
041	A ext. 2	071				x		To identify dateable material for initial charcoal-rich spread on stone paving within interior
042	A	042				x		To identify dateable material for collapse of Rampart 1 within the interior
043	B	072				x		To identify dateable material for initial clay deposit spread along outer face of Rampart 1
044	B	054				x		To identify dateable material for primary deposits of Ditch 1
045	B	073				x		To identify dateable material for initial deposit spread along outer face of Rampart 1
046	A ext. 2	071				x		To identify dateable material for initial charcoal-rich spread on stone paving within interior
047	B	067				x		To identify dateable material in Rampart 1
048	A	057				x		To identify dateable material for the charcoal-rich deposit in the cracks of the stone paving within interior
049	A	059				x		To test whether re-deposited natural within the interior and identify dateable material
050	A ext. 2	079				x		To identify dateable material for the initial use of interior, prior to stone paving
051	D	034				x		To identify dateable material for Ditch 3
052	D	035				x		To identify dateable material for Ditch 3
053	A	061				x		To test whether material from an animal burrow

## v) Photos

*Black & White*

Film No.	No.	Area	Contexts	Description	From
1	1			Registration Shot	
1	2	B	001	Plan view of stone setting 001	N
1	3	B	013	Excavation of pale silty fill of Ditch 1	S
1	4	A	016	Top of pinkish natural clayey silt in N end of trench	E
1	5	A	016, 007, 049	Top of pinkish natural clayey silt and linear charcoal flecked feature in N end of trench	E
1	6	A	016, 007, 049	Top of pinkish natural clayey silt and linear charcoal flecked feature in N end of trench	E
1	7	A	007, 049, 003, 015, 016,	Pre-excavation of dark linear feature and the N end of flat stones 003	E
1	8	A	003, 015, 016	Pre-excavation flat stones 003	E
1	9	C	019	Rubble at top of Rampart 3	E
1	10	A	017	Rampart 1 and deposits against it	N
1	11	A	017	Rampart 1 and deposits against it	N

1	12	A	003, 015, 022	Pre-ex of S end of flat stones 003 and top of 022	W
1	13	A	022, 021, 063	017 removed, top of 022 and 021, including orthostat 063 in the S end	W
1	14	A	022, 021, 063	017 removed, top of 021, including orthostat 063 in the N end	W
1	15	D	023	023 removed in Ditch 3	W
1	16	D	023	023 removed in Ditch 3	W
1	17	D	023	023 removed in Ditch 3	S
1	18	D	023	023 removed in Ditch 3	S
1	19	D	023	023 removed in Ditch 3	N
1	20	D	023	023 removed in Ditch 3	N
1	21	A	006, 003, 015, 016, 012, 021, 022	Pre-excavation of arc of stones 003 and ash deposits	N
1	22	A	006, 003, 015, 016, 012, 021, 022	Pre-excavation of arc of stones 003 and ash deposits	N
1	23	A	006, 003, 015, 016, 012, 021, 022	Pre-excavation of arc of stones 003 and ash deposits	S
1	24	A	006, 003, 015, 016, 012, 021, 022	Pre-excavation of arc of stones 003 and ash deposits	S
1	25	B	018, Rampart 2	Pre-excavation of Rampart 2 with unexcavated 018 visible in the foreground	N
2	1			Registration Shot	
2	2	A	009	Inner Rampart	N
2	3	A	009	Inner Rampart	N
2	4	D	Ditch 3	Post-excavation Ditch 3	W
2	5	D	034, 035, 036	Post-excavation Ditch 3	E
2	6	A	009	Turf/ash layer on top of Rampart 1	NE
2	7	A	037	033 removed, pre-excavation of charcoal rich layer	W
2	8	A	037	033 removed, pre-excavation of charcoal rich layer	W
2	9	A	012, 017	Topsoil removed from extension 1 in area A	N
2	10	A	012, 017	Topsoil removed from extension 1 in area A	N
	11	B		Mid-excavation Ditch 1	S
	12	B		Mid-excavation Ditch 1	N
2	13	A	016, 037	Pre-excavation of charcoal rich layer	N
2	14	E	044	Top of rampart 4 (close-up)	S
2	15	E	044	Top of rampart 4	S
2	16	E	044	Top of rampart 4	S
2	17	E	044	Top of rampart 4	S
2	18	A	016, 037, 015, 003, 042, 060	Mid-excavation of area A including extension	N
2	19	A	016, 037, 015, 003, 042, 060	Mid-excavation of area A including extension	N
2	20	A	016, 037, 015, 003, 042, 060	Mid-excavation of area A including extension	E
2	21	A	016, 037, 015, 003, 042, 060	Mid-excavation of area A including extension	E
2	22	A	016, 037, 015, 003, 042, 060	Mid-excavation of area A including extension	S
2	23	A	016, 037, 015, 003, 042, 060	Mid-excavation of area A including extension	S
2	24	C	031, 046	N end section through Rampart 3	W
2	25	C	031, 046	S end section through Rampart 3	W
2	26	C	031, 046	N end section through Rampart 3	W
2	27	C	031, 046	S end section through Rampart 3	W
2	28	B		Mid-excavation Ditch 1	S
2	29	B		Mid-excavation Ditch 1	N
2	30	B		Mid-excavation Ditch 1	E
2	31	B		Mid-excavation Ditch 1	W
2	32	E	048	W section of terminal slope of Rampart 4	E
2	33	E	048	W section of terminal slope of Rampart 4	E
2	34	E	048	W section of terminal slope of Rampart 4	E

3	1			Registration Shot	
3	2	A	060, 056, 057	042 removed N of Rampart 1 showing flat stones 056	E
3	3	A	060, 056, 057	042 removed N of Rampart 1 showing flat stones 056	E
3	4	A ext.2	017	topsoil removed from extension 2 in area A	N
3	5	A ext.2	017	topsoil removed from extension 2 in area A	N
3	6	E	052	Stone revetment of rampart 4	S
3	7	E	052	Stone revetment of rampart 4	N
3	8	E	052	Stone revetment of rampart 4	S
3	9	E	052	Stone revetment of rampart 4	N
3	10	A ext.2	058, 042, 064	Mid-excavation of area A extension 2 showing rubble from Rampart 1	W
3	11	A ext.2	058, 042, 064	Mid-excavation of area A extension 2 showing rubble from Rampart 1	W
3	12	A ext.2	058, 042, 064	Mid-excavation of area A extension 2 showing rubble from Rampart 1	W
3	13	C		Section of Ditch 2 (1)	W
3	14	C		Section of Ditch 2 (1)	W
3	15	C		Section of Ditch 2 (1)	W
3	16	C		Section of Ditch 2 (2)	W
3	17	C		Section of Ditch 2 (2)	W
3	18	C		Section of Ditch 2 (2)	W
3	19	D		Section of Rampart 2 (1)	W
3	20	D		Section of Rampart 2 (1)	W
3	21	D		Section of Rampart 2 (1)	W
3	22	D		Section of Rampart 2 (2)	W
3	23	D		Section of Rampart 2 (2)	W
3	24	D		Section of Rampart 2 (2)	W
3	25	D		Section of Rampart 2 (3)	W
3	26	D		Section of Rampart 2 (3)	W
3	27	D		Section of Rampart 2 (3)	W
3	28	D		Section of Rampart 2 (4)	W
3	29	D		Section of Rampart 2 (4)	W
3	30	D		Section of Rampart 2 (4)	W
3	31	D		Section of Rampart 2 (5)	W
3	32	D		Section of Rampart 2 (5)	W
3	33	D		Section of Rampart 2 (5)	W
3	34	C		Section of Ditch 2	E
3	35	C		Section of Ditch 2	E
4	1			Registration Shot	
4	2	C		Section of Rampart 3	E
4	3	C		Section of Rampart 3	E
4	4	C		Section of Rampart 3	E
4	5	B	054	Section through Rampart 1 (charcoal deposits)	S
4	6	B	054	Section through Rampart 1 (charcoal deposits)	S
4	7	B	054	Section through Rampart 1 (charcoal deposits)	S
4	8	B	054	Section through Rampart 1 (charcoal deposits)	S
4	9	A ext.2	056, 058, 063, 071	Mid-excavation of Area A ext.2 showing paving and inner facing of Rampart 1	E
4	10	A ext.2	056, 058, 063, 071	Mid-excavation of Area A ext.2 showing paving and inner facing of Rampart 1	E
4	11	A ext.2	056, 058, 063, 071	Mid-excavation of Area A ext.2 showing paving and inner facing of Rampart 1	E
4	12	A ext.2	056, 058, 063, 071	Mid-excavation of Area A ext.2 showing paving and inner facing of Rampart 1	N
4	13	A ext.2	056, 058, 063, 071	Mid-excavation of Area A ext.2 showing paving and inner facing of Rampart 1	N
4	14	A ext.2	056, 058, 063, 071	Mid-excavation of Area A ext.2 showing paving and inner facing of Rampart 1	N

4	15	C		Section of Rampart 1 (1)	E
4	16	C		Section of Rampart 1 (1)	E
4	17	C		Section of Rampart 1 (1)	E
4	18	C		Section of Rampart 1 (2)	E
4	19	C		Section of Rampart 1 (2)	E
4	20	C		Section of Rampart 1 (2)	E
4	21	C		Section of Rampart 1 (3)	E
4	22	C		Section of Rampart 1 (3)	E
4	23	C		Section of Rampart 1 (3)	E
4	24	A ext.2	056-058	Mid-excavation of Area A ext.2 showing paving and inner facing of Rampart 1	E
4	25	A ext.2	056-058	Mid-excavation of Area A ext.2 showing paving and inner facing of Rampart 1	E
4	26	A ext.2	056-058	Mid-excavation of Area A ext.2 showing paving and inner facing of Rampart 1	E
4	27	A ext.2	056-058	Mid-excavation of Area A ext.2 showing paving and inner facing of Rampart 1	W
4	28	A ext.2	056-058	Mid-excavation of Area A ext.2 showing paving and inner facing of Rampart 1	N
4	29	A ext.2	056-058	Mid-excavation of Area A ext.2 showing paving and inner facing of Rampart 1	S
4	30	A	016, 043, 062	Post-excavation of a slot through 003/015	E
4	31	A	003, 015, 062	S-facing section of slot through 003/015	S
4	32	A	016,043,062	Post-excavation of a slot through 003/015	W
4	33	B	070	Organic smear Rampart 1	S
4	34	B	075	Compact ditch face 1 showing post-ex of 070	S
4	35	A/B		Rampart 1	W

*Digital*

Digital ID No.	Area	Contexts	Description	From
JK07-8-9-00	A	063	Top of orthostat after topsoil removed	NW
JK07-8-9-01	B	005	Tumbled stones Rampart 1	N
JK07-8-9-02	B	008	N face of Rampart 2 showing yellow silt under stone setting 001, 002, 004	N
JK07-8-9-03	B	008	N face of Rampart 2 showing yellow silt under stone setting 001, 002, 004	N
JK07-8-9-04	B	005	Tumble of stones on outer face of Rampart 1 after loose removed	S
JK07-8-9-05	B	005	Tumble of stones on outer face of Rampart 1 after loose removed	S
JK07-8-9-06	A/B	009/061	Yellow silt or animal burrow on top of Rampart 1, near to possible post-hole 078	NE
JK07-8-9-07	A/B	009/061	Yellow silt or animal burrow on top of Rampart 1, near to possible post-hole 078	NE
JK07-8-9-08	B	005	Tumble of stones on outer face of Rampart 1 after loose removed	S
JK07-8-9-09	B	005	Revetment with tumble of stones over, outer face of Rampart 1 after loose removed	SW
JK07-08-10-11	A	016	Top of pinkish natural clayey silt in N end of trench	E
JK07-08-10-12	A	016, 007, 049	Top of pinkish natural clayey silt and linear charcoal flecked feature in N end of trench	E
JK07-08-10-13	A	007, 049, 003, 015, 016,	Pre-excavation of dark linear feature and the N end of flat stones 003	E
JK07-08-10-14	A	003, 015, 016	Pre-excavation flat stones 003	E
JK07-08-10-15	C	019	Rubble at top of Rampart 3	E
JK07-08-10-16	A	017	N face of Rampart 1 and deposits against it	N
JK07-15-08-07 004	A	003, 015, 022	Pre-ex of S end of flat stones 003 and top of 022	W

JK07-15-08-07 006	A	022, 021, 063	017 removed, top of 022 and 021, including orthostat 063 in the S end	W
JK07-15-08-07 008	A	022, 021, 063	017 removed, top of 021, including orthostat 063 in the N end	W
JK07-15-08-07 013	D	023	023 removed in Ditch 3	W
JK07-15-08-07 014	D	023	023 removed in Ditch 3	S
JK07-15-08-07 015	D	023	023 removed in Ditch 3	N
JK07-15-08-07 016	C		Rampart 2 - general shot mid excavation	S
JK07-15-08-07 017	A	006, 003, 015, 016, 012, 021, 022	Pre-excavation of arc of stones 003 and ash deposits	N
JK07-15-08-07 018	A	006, 003, 015, 016, 012, 021, 022	Pre-excavation of arc of stones 003 and ash deposits	S
JK07-15-08-07 019	A	006, 003, 015, 016, 012, 021, 022	Pre-excavation of arc of stones 003 and ash deposits	S
JK07-15-08-07 020	A	006, 003, 015, 016, 012, 021, 022	Pre-excavation of arc of stones 003 and ash deposits	S
JK07-15-08-07 021	A	012, 022, 003, 015	Detail of ash/charcoal concentration	W
JK07-15-08-07 022	A	012, 022, 003, 015	Detail of ash/charcoal concentration	W
JK07-15-08-07 023	B	018, Rampart 2	Pre-excavation of Rampart 2 with unexcavated 018 visible in the foreground	N
JK07-15-08-07 024	C	028	W-facing section of Ditch 2	W
JK07-15-08-07 025	C	028	W-facing section of Ditch 2	W
JK07-15-08-07 026	C	028	E-facing section of Ditch 2	E
JK07-15-08-07 027	C	028	E-facing section of Ditch 2	E
JK07-15-08-07 028	C	028	E-facing section of Ditch 2	E
JK07-15-08-07 032	C		N face of Rampart 3	N
JK07-15-08-07 034	C		N face of Rampart 3	N
JK07-15-08-07 038	C		N face of Rampart 3	N
JK07-15-08-07 040	C	028	W-facing section of Ditch 2	W
JK07-15-08-07 041	C	028	W-facing section of Ditch 2	W
JK07-15-08-07 042	C		S face of Rampart 2	S
JK07-15-08-07 043	C		S face of Rampart 2	S
JK07-15-08-07 044	C	028	E-facing section of Ditch 2	E
JK07-15-08-07 045	C	028	E-facing section of Ditch 2	E
JK07-15-08-07 046	C	028	E-facing section of Ditch 2	E
JK07-15-08-07 047	A	009	Top of Rampart 1	N
JK07-15-08-07 048	A	009	Top of Rampart 1	N
JK07-15-08-07 049	D		W-facing section of Ditch 3	W
JK07-15-08-07 050	D		W-facing section of Ditch 3	W
JK07-15-08-07 051	D		W-facing section of Ditch 3	W
JK07-15-08-07 052	D		E-facing section of Ditch 3	E
JK07-15-08-07 053	D		E-facing section of Ditch 3	E
JK07-15-08-07 054			General shot from base of ramparts	S
JK07-15-08-07 055			General shot from base of ramparts	S
JK07-15-08-07 056			General shot from base of ramparts	S
JK07-15-08-07 057	A	009	Ash layer, inner face of Rampart 1	NE
JK07-15-08-07 058	A	009	Ash layer, inner face of Rampart 1	NE
JK07-15-08-07 059	A	003	Paving slabs 003, showing hammerstone at edge, 033 removed	W
JK07-15-08-07 060	A	003	Paving slabs 003, showing hammerstone at edge, 033 removed	W
P1010001	A		Topsoil removed of extension 1 to Area A	N

	ext.1			
P1010002	A ext.1		Topsoil removed of extension 1 to Area A	N
P1010003	A		General working shots	
P1010004	A		General working shots	
P1010005	A ext1	003, 015	General working shots, topsoil removed from extension 1	
P1010006	A	003, 015	General working shots, showing arc of stone paving	
P1010007	C		General working shots, Ditch 2 and Rampart 3	
P1010008	B		General working shots, Ditch 1	
P1010009	B		General working shots, Rampart 2	
P1010010	B		General working shots, Step in Ditch 1	
P1010011	B		General working shots, Rampart 1	
P1010012			General working shots, lower end of trench	
P1010013	A		General working shots, upper end of trench	
P1010014	D		General working shots, Rampart 2	
P1010015	D		General working shots, Rampart 2 and Ditch 3	
P1010016	D		General working shots, Rampart 3	
P1010017	E		General working shots - outside Rampart 3	
P1010018	E		General working shots - outside Rampart 3	
P1010019	E		General working shots - outside Rampart 3	
P1010020	E		General working shots - outside Rampart 3	
P1010021	D		General working shots - Ditch 3	
P1010022	D		General working shots - Rampart 3	
P1010023	C		General working shots - Rampart 3 and Ditch 2	
P1010024	C		General working shots - Ditch 2	
P1010025	C		General working shots - Rampart 2	
P1010026	B		General working shots - Rampart 2	
P1010027	B		General working shots - Step within Ditch 1	
P1010028	B		General working shots - Ditch 1	
P1010029	B		General working shots - Rampart 1	
P1010030	A		General working shots - Rampart 1	
P1010031	A		General working shots - interior	
P1010032	A		General working shots - interior	
P1010033	A		General working shots - interior	
P1010034	A ext1	037	Pre-excavation of charcoal layer 037	N
P1010035	A ext1	037	Pre-excavation of charcoal layer 037	N
P1010036	E		Top of Rampart 4	S
P1010037	E		Top of Rampart 4	S
P1010038	A		Mid-excavation of area A, showing stone paving and extension 1	N
P1010039	A		Mid-excavation of area A, showing stone paving and extension 1	N
P1010040	A		Mid-excavation of area A, showing stone paving and extension 1	E
P1010041	A		Mid-excavation of area A, showing stone paving and extension 1	E
P1010042	A		Mid-excavation of area A, showing stone paving and extension 1	S
P1010043	A		Mid-excavation of area A, showing stone paving and extension 1	S
P1010044	C	031, 046	Section through Rampart 3 (N end)	W
P1010045	C	031, 046	Section through Rampart 3 (centre N)	W
P1010046	C	031, 046	Section through Rampart 3 (centre S)	W
P1010047	C	031, 046	Section through Rampart 3 (S end)	W
P1010048	E	048	Outside Rampart 4 - showing stone setting	E
P1010049	E	048	Outside Rampart 4 - showing stone setting	E
P1010050	E	048	Outside Rampart 4 - showing stone setting	E



P1010051	E	048	Outside Rampart 4 - showing stone setting	E
P1010052	A	007/049	Plan view of half-section of charcoal rich root/burrow	W
P1010053	A	007/049	Plan view of half-section of charcoal rich root/burrow	W
P1010054	A	007/049	Half-section of charcoal rich root/burrow	N
P1010055	A	007/049	Half-section of charcoal rich root/burrow	N
P1010056	A	049	Post-excavation of charcoal rich root/burrow	E
P1010057	A	049	Post-excavation of charcoal rich root/burrow	NW
P1010058	A	049	Post-excavation of charcoal rich root/burrow	NW
P1010059	A ext.1	010, 012, 033, 037, 043	N-facing section of Area A extension 1	N
P1010061	A ext.1	010, 012, 033, 037, 043	N-facing section of Area A extension 1	N
P1010062	A ext.1	043	Post-excavation of charcoal spread	S
P1010064	A ext.1	043	Post-excavation of charcoal spread	S
P1010065	A	043, 003	Post-excavation of charcoal spread in relation to stone paving 003	E
P1010066	A	043, 003	Post-excavation of charcoal spread in relation to stone paving 003	E
P1010067	A	043, 003	Post-excavation of charcoal spread in relation to stone paving 003	E
P1010068	A	043, 003	Post-excavation of charcoal spread in relation to stone paving 003	E
P1010069	A	043, 003	Post-excavation of charcoal spread in relation to stone paving 003	E
P1010070	A ext.1	043	Post-excavation of charcoal spread	N
P1010071	A ext.1	043	Post-excavation of charcoal spread	N
P1010072	E	052	Stone revetment of Rampart 4	S
P1010073	E	052	Stone revetment of Rampart 4	N
P1010074	E	052	Stone revetment of Rampart 4	N
P1010075	A	042	Mid-excavation of area inside Rampart 1, top of 042	S
P1010076	A	042	Mid-excavation of area inside Rampart 1, top of 042	E
P1010077	A	042	Mid-excavation of area inside Rampart 1, top of 042	E
P1010078	A	042	Mid-excavation of area inside Rampart 1, top of 042	N
P1010079	A	042	Mid-excavation of area inside Rampart 1, top of 042	N
P1010080	A	056, 057, 060	Mid-excavation of area inside Rampart 1, 042 removed revealing stones	E
P1010081	A	056, 057, 060	Mid-excavation of area inside Rampart 1, 042 removed revealing stones	E
P1010082	A ext.2	010	Topsoil removed of extension 2 to Area A	N
P1010083	A ext.2	010	Topsoil removed of extension 2 to Area A	N
P1010084	E	052	Stone revetment of Rampart 4	S
P1010085	E	052	Stone revetment of Rampart 4	N
P1010086	E	052	Stone revetment of Rampart 4	S
P1010087	E	052	Stone revetment of Rampart 4	N
P1010088	A ext.2	042, 058, 064	Mid-excavation of Area A extension 2, top of stone rubble	W
P1010089	A ext.2	042, 058, 064	Mid-excavation of Area A extension 2, top of stone rubble	W
P1010092	A ext.2	042, 058, 064	Mid-excavation of Area A extension 2, top of stone rubble	W
P1010093	A ext.2	042, 058, 064	Mid-excavation of Area A extension 2, top of stone rubble	W
P1010097	A ext.2	042, 058, 064	Mid-excavation of Area A extension 2, top of stone rubble	W
P1010098			Working shot - taking photos	
P1010099			Working shot - taking photos	
P1010100	A	042, 058,	Mid-excavation of Area A extension 2, top of stone	W

	ext.2	064	rubble	
P1010101	A ext.2	042, 058, 064	Mid-excavation of Area A extension 2, top of stone rubble	W
P1010102	A ext.2	042, 058, 064	Mid-excavation of Area A extension 2, top of stone rubble	W
P1010103			Section of Ditch 2 (1)	W
P1010104			Section of Rampart 3 (1)	W
P1010105			Section of Rampart 3 (1)	W
P1010106			Section of Rampart 3 (2)	W
P1010107			Section of Rampart 3 (3)	W
P1010108			Section of Rampart 3 (4)	W
P1010109			Section of Rampart 3 (5)	W
P1010110			Section of Rampart 4	W
P1010111			Section of Ditch 2	E
P1010112			Section of Ditch 2	E
P1010113			Section of Ditch 2	E
P1010114	A ext.2	071, 056	Working shot -excavating 071 under tumble 064	S
P1010116	A ext.2	071, 056	Working shot -excavating 071 under tumble 064	E
P1010117	B		Mid-excavation - Rampart 1 showing charcoal and grey ash lenses	S
P1010118	B		Mid-excavation - Rampart 1 showing charcoal and grey ash lenses	S
P1010119	B		Mid-excavation - Rampart 1 showing charcoal and grey ash lenses	S
P1010120	B		Mid-excavation - Rampart 1 showing charcoal and grey ash lenses	S
P1010121	A ext.2	071, 056	Mid-excavation of 071 under tumble 064	S
P1010122	A ext.2	071, 056	Mid-excavation of 071 under tumble 064	W
P1010123	A ext.2	071, 056	Mid-excavation of 071 under tumble 064	N
P1010124	C		Section of top of Rampart 3	E
P1010125	C		Section of top of Rampart 3	E
P1010126	C		Section of top of Rampart 3	E
P1010127	B	054	Plan view of section through Rampart 1 showing charcoal deposits	S
P1010128	B	054	Plan view of section through Rampart 1 showing charcoal deposits	S
P1010129	A ext.2	071, 056, 058, 063	Mid-excavation of 071 under tumble 064, showing inner face of rampart	E
P1010130	A ext.2	071, 056, 058, 063	Mid-excavation of 071 under tumble 064, showing inner face of rampart	E
P1010131	A ext.2	071, 056, 058, 063	Mid-excavation of 071 under tumble 064, showing inner face of rampart	E
P1010132	A ext.2	071, 056, 058, 063	Mid-excavation of 071 under tumble 064, showing inner face of rampart	N
P1010133	A ext.2	071, 056, 058, 063	Mid-excavation of 071 under tumble 064, showing inner face of rampart	N
P1010134	A ext.2	071, 056, 058, 063	Mid-excavation of 071 under tumble 064, showing inner face of rampart	N
P1010135	C		Section of Rampart 2 (1)	E
P1010136	C		Section of Rampart 2 (1)	E
P1010137	B		Plan view of section through Rampart 1 showing charcoal deposits	S
TPcameraJK07_23_08_07 010	C		Section of Rampart 2 (2)	E
TPcameraJK07_23_08_07 011	C		Section of Rampart 2 (2)	E
TPcameraJK07_23_08_07 012	C		Section of Rampart 2 (2)	E
TPcameraJK07_23_08_07 013	C		Section of Rampart 2 (3)	E
TPcameraJK07_23_08_07 014	C		Section of Rampart 2 (3)	E
TPcameraJK07_23_08_07 015	C		Section of Rampart 2 (3)	E

TPcameraJK07_23_08_07 016	A ext.2	058, 057, 056	Mid-excavation showing flat slabs and inner stone face of Rampart 1	E
TPcameraJK07_23_08_07 017	A ext.2	058, 057, 056	Mid-excavation showing flat slabs and inner stone face of Rampart 1	W
TPcameraJK07_23_08_07 018	A ext.2	058, 057, 056	Mid-excavation showing flat slabs and inner stone face of Rampart 1	S
TPcameraJK07_23_08_07 019	A ext.2	058, 057, 056	Mid-excavation showing flat slabs and inner stone face of Rampart 1	N
TPcameraJK07_23_08_07 020	A ext.1	062, 043, 016	Post-excavation of slot through 003 in relation to extension 1	E
TPcameraJK07_23_08_07 021	A	062, 043, 016	Post-excavation of slot through 003	S
TPcameraJK07_23_08_07 022	A	062, 043, 016, 015	Post-excavation of slot through 003 - showing section	S
TPcameraJK07_23_08_07 023	A	062, 043, 016	Post-excavation of slot through 003 in relation to extension 1	W
TPcameraJK07_23_08_07 024	A	062, 043, 016	Post-excavation of slot through 003 - wide view	N
TPcameraJK07_23_08_07 025	B	070	Plan view of section through Rampart 1 showing charcoal deposits	S
TPcameraJK07_23_08_07 026	B	070	Plan view of section through Rampart 1 showing charcoal deposits	S
TPcameraJK07_23_08_07 027	B	070	Plan view of section through Rampart 1 showing charcoal deposits	S
TPcameraJK07_23_08_07 028	B	075	Close up of lenses of charcoal in section of Rampart 1	E
TPcameraJK07_23_08_07 029	B	075	Close up of lenses of charcoal in section of Rampart 1	E
P1010138	B		Section of Rampart 1	W
P1010139	B		Section of Rampart 1	W
P1010140	B		Section of Rampart 1	W
P1010141	B		Section of Rampart 1	W
P1010142	B		Section of Rampart 1	W
P1010143	B		Section of Ditch 1	W
P1010144	B		Section of Ditch 1	W
P1010145	B		Section of Ditch 1	W
P1010146	B		Section of step S of Ditch 1	W
P1010147	B		Section of inner face of Rampart 2	W
P1010148	B		Section of Ditch 1	W
P1010149	A		Post-excavation N end of trench	N
P1010150	A		Post-excavation of slot through stone feature 003	W
P1010151	A		Post-excavation of slot through stone feature 003	W
P1010152	A ext.2		Post-excavation of extension 2, showing stone face of Rampart 1	N
P1010153	A ext.2		Post-excavation of extension 2, showing stone face of Rampart 1	N
P1010154	A ext.2		Post-excavation of extension 2, showing stone face of Rampart 1	E
P1010155	A ext.2		Post-excavation of extension 2, showing stone face of Rampart 1	E
P1010156	A ext.2		Post-excavation of extension 2, showing stone face of Rampart 1	E
P1010161	A ext.2	042, 010, 017, 056, 057, 058, 071, 016	E-facing section of extension 2	E
P1010162	A ext.2	042, 010, 017, 056, 057, 058, 071, 016	E-facing section of extension 2	E
P1010163	A	010, 017	W-facing section of area A (inside Rampart 1)	W
P1010164	A	010, 017	W-facing section of area A (inside Rampart 1)	W
P1010165	A	010, 017	E-facing section of N of extension 2	E
P1010166	A	010, 017	E-facing section of N of extension 2	E
P1010167	A	010, 017	E-facing section of N of extension 2	E
P1010168	A	010, 017, 009, 058	E-facing section of S of extension 2	E

P1010169	A	010, 017, 009, 058	E-facing section of S of extension 2	E
P1010170	B		Micromorphology tins in Ditch 1	W