



Forteviot, Western
Boundary of the
Palisaded Enclosure
Excavation 2010

Data Structure Report

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Summary

Between 2nd and 22nd August 2010, a number of excavations were undertaken across the cropmark complex to the south of Forteviot Village as part of the SERF Project (see Driscoll et al 2010). This interim report concerns Trench 7, which focused on the eastern boundary of a Late Neolithic Palisaded Enclosure. This site was initially identified from aerial photographs revealing a large cropmark complex spread over several fields. As part of the SERF Project, excavations have also taken place at the palisaded enclosure avenue (Trench 1 2007, Noble & Brophy 2008) and in 2010, excavation work also focused on an area on the north side of the enclosure (Trench 5B, Gould 2010).

Within Trench 7, six palisade postholes was identified and excavated (either to half section or fully) as well as various other features such as tree throws, the remains of a road and a shallow pit. The aim of this excavation was to identify any differences between the construction and use of the peripheral palisade postholes to the avenue posts and to determine more about the character of the enclosure and its construction and use. The work carried out during this season was part of wider project work going on elsewhere in this cropmark complex and the surrounding landscape.

Introduction

Location

The palisaded enclosure at Forteviot is located approximately 0.25km south of the village. It is situated in a heavily cultivated, level area of a field that has been ploughed for a variety of crops including potatoes. The underlying drift geology is largely that of fluvio-glacial gravels and silts.

The site provides good views west down the valley to Ben Vorlich and the Highlands, while to either side of the valley, the Ochils and the Gask Ridge rise to enclose the area. To the west of the site the ground falls away steeply to several river terraces caused by the undulating course of the Water of May.

Archaeological Background

The palisaded enclosure lies within a rich archaeological region. The enclosure itself is c. 260m in diameter and is defined by an irregular line of postholes/pits depicted on the aerial transcription of the area (see transcription below). The evidence for this site shows the enclosure running in an irregular circle with broken and double lines of posts/pits in places. The western part of the enclosure runs outwith the main field and may have been lost due to erosion on the river terraces or utilised the natural steep slope in place of posts as a boundary.

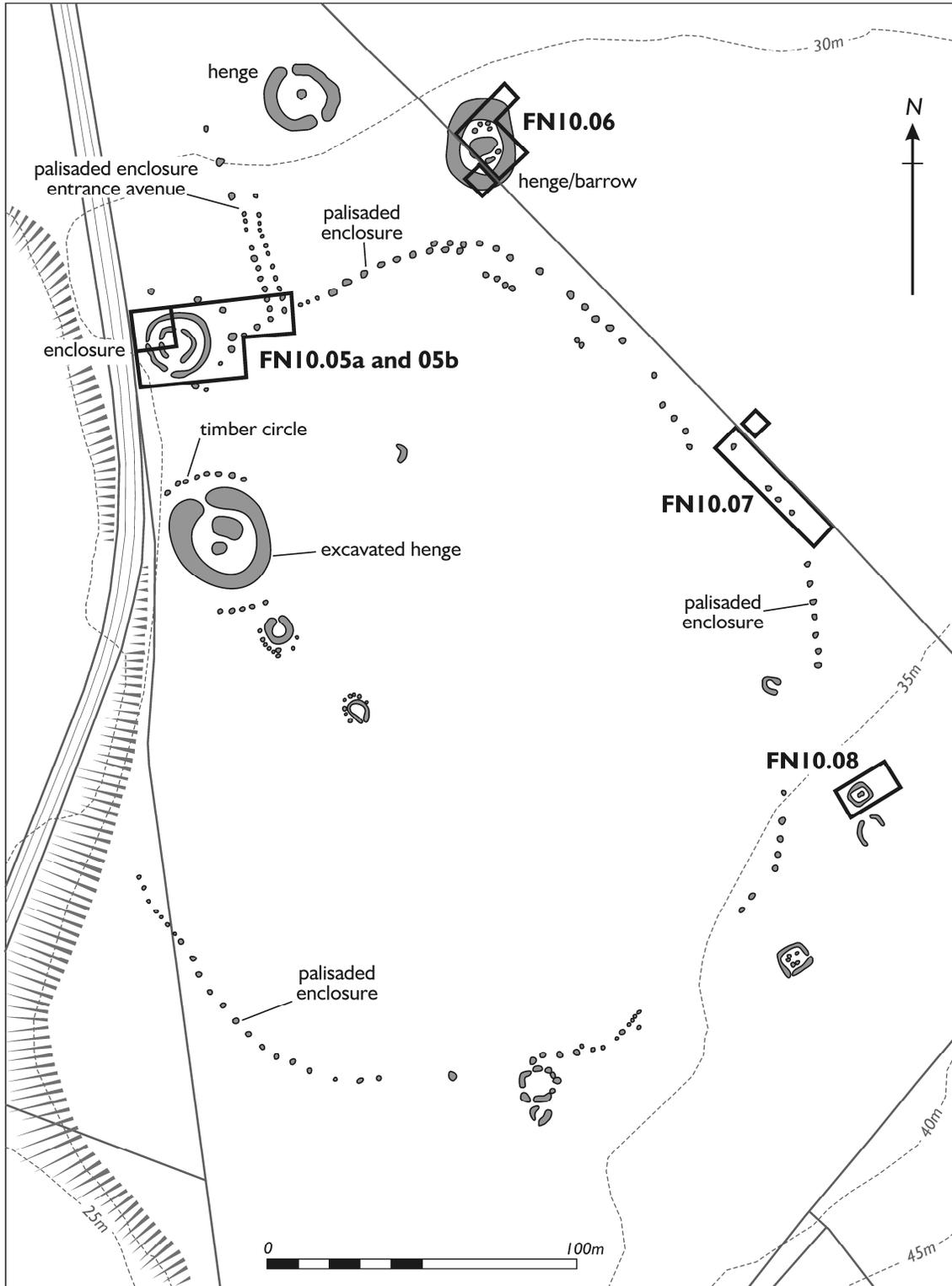


Figure 1: Transcription of cropmark complex ©RCAHMS and location of excavation trench

The cropmarks of the palisaded enclosure were first identified in 1976. Since then this site has been flown over numerous times by RCAHMS and others, expanding the scope and complexity of the cropmark complex. The large pit-defined enclosure at the heart of this complex has since its discovery been characterised as a 'palisaded enclosure'. There are a small group of such sites in Scotland. Dunragit (Thomas, 2001), Meldon Bridge (Burgess 1976, Speak and Burgess 1999) and Blackhouse Burn (Lelong and Pollard, 1998) have all been excavated to one extent or another, and shown to be large later Neolithic enclosures. A fifth site, Leadketty, is known only as a cropmark and is intriguingly situated just a few kilometres to the west of Forteviot. SERF excavations in 2007 confirmed that the Forteviot palisaded enclosure was indeed late Neolithic in origin, and defined by large oak post, but differences between all the sites indicate regional differences in the construction and probable function of these sites.

A wide range of ancillary monuments have been recorded as cropmarks both within and on the outskirts of the enclosure some of which have been tested by excavation as part of SERF including henge monuments, cairns, timber circles and cist burials. These previous investigations indicate a high level of activity within this landscape from the later Neolithic into the Bronze Age, especially in the 3rd millennium BC. Associated nearby cropmarks indicate this area was also utilised as a burial/cemetery site in the early medieval period (Poller 2007; Campbell and Gondek 2009).

Research Aims

Trench 7 was very specifically located to examine a stretch of the boundary of the palisaded enclosure in a location where plough damage may not have been as severe (at the edge of the field). The following research questions were considered:

- What is the character of the features that make up the perimeter? Are they all postholes?
- Are the posts or features that make up the palisaded enclosure regular or irregular? Can we identify gaps, groups or segmented construction?
- Is the enclosure boundary of the same scale or character as the entrance avenue?
- Were ramps used in post erection, and do they have a consistent or irregular arrangement?
- Is there any indication of a bank associated with the enclosure boundary?
- How big were the posts?
- What type of wood was used for the posts?
- Can any ancillary features directly associated with the architecture of the palisaded enclosure be identified (e.g. smaller postholes between main ones, slots etc indicative of a continuous 'fence' boundary)?
- Were deposits placed in the postholes (prior to post erection and/ or after the post was removed/decayed)?
- Were the postholes a focus for deposition?
- Are there any other features/deposits present e.g. pits, lithic scatters?
- What date was the monument constructed? Were all posts erected at roughly the same times? When in relation to the avenue?
- Is there any evidence of re-use or re-cutting or phasing in the overall structure?
- What was the nature of the environment when the monument was constructed and in use?
- What happened to the posts? Was the same strategy applied to all posts? (in avenue, some were burnt, some were removed, some rotted)
- How long did the monument stand for? How long would it take for posts to decay?

- Is there a relationship between the enclosure and the modern field boundary?
- What is the preservation of soil deposits under the field bank compared to the rest of the excavation trench?

A roadway marked on several historic maps, such as the OS 1st edition map (1862), ran along the route of the modern field boundary, and so the trench was also located here to examine the nature of this feature. (Trench 6 was also located over this roadway.) Therefore, a final aim of the excavations in this trench was to identify any surviving traces of this road / track, and attempt to make sense of them in terms of the origins and chronology of this feature.

Methodology

Trench 7 was approximately 10 x 50m (with long axis roughly NW-SE) and located along the eastern field boundary to catch as many of the palisade postholes depicted in a line along the edge of the field as possible. There was also a small extension 5x7m to the east over the field boundary, which aimed to catch traces of the trackway depicted on the 1st Edition OS and other maps.

The trench was machine-opened using a tracked excavator and cleaned using hoes. A local grid was set up using Pentax Total Stations. Features revealed after cleaning were recorded using measured plan drawings, located using the local grid. Contexts were excavated by hand and recorded using pro-forma sheets, photographs, measured section drawings and post-ex plans. Bulk samples were taken from secure contexts and potentially informative contexts to be put through the flotation process with the aims of obtaining dating evidence and any palaeobotanical data which could help inform on the environment at the time of the monument use/closure. Topsoil finds and charcoal were collected in bulk; finds from secure contexts were recorded in three dimensions where possible.

Of the six palisade postholes uncovered, all were excavated; two in full, while four were dug to half section only. The other features present in the trench were investigated to provide more information on the wider context of this region of the enclosure. All half-sectioned features backfilled by hand to maintain the integrity of the remaining half; the rest of the trench was backfilled by machine.

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Post excavation plan

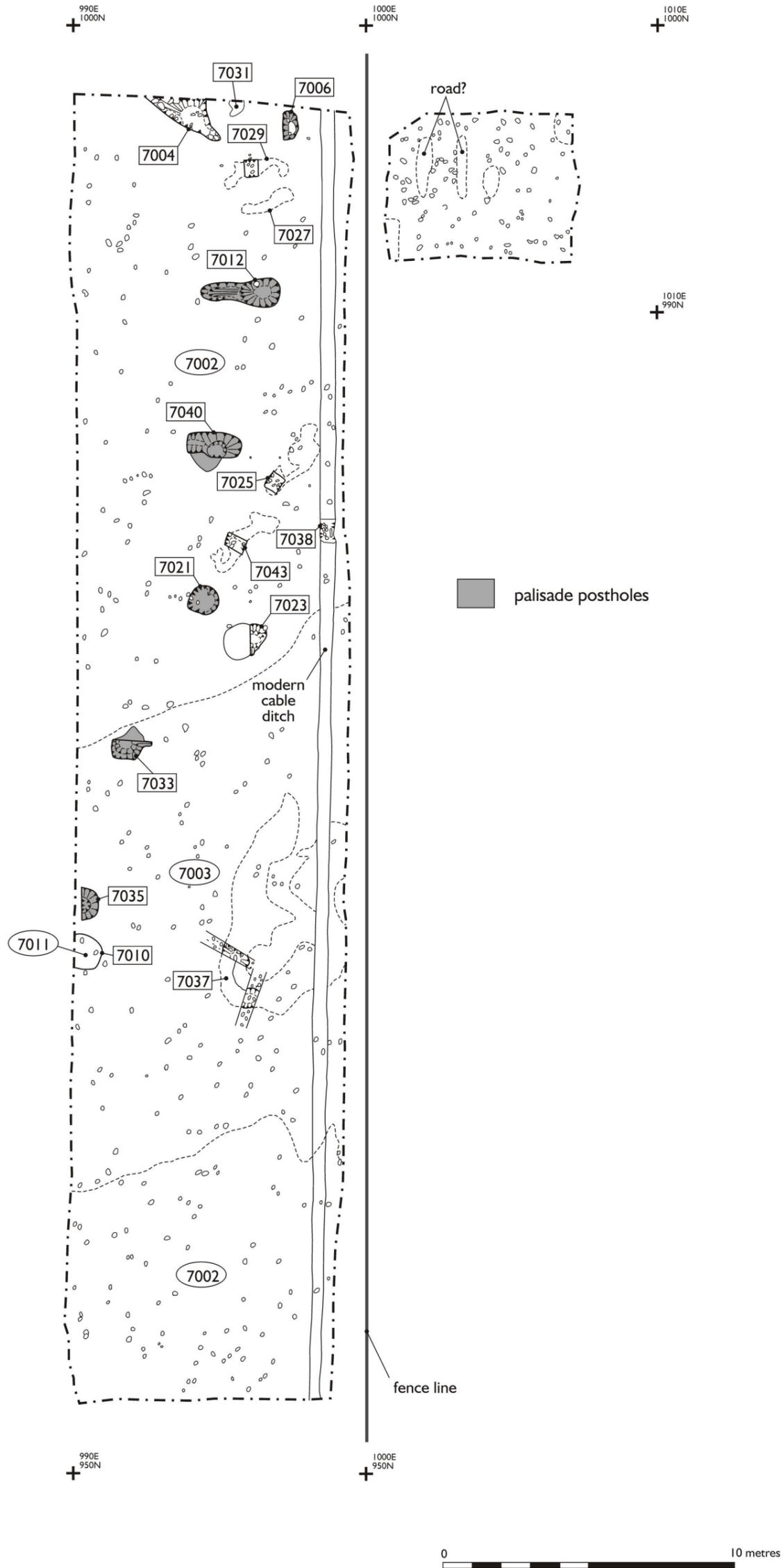


Figure 2: Post-excavation plan of trench with features numbered

Results

Palisade Posts 1-6

Once the topsoil (7001) was cleaned off it was apparent that all the features were cut into the natural (7002). In areas of the trench silty deposits (7063) were found caught in pockets where the natural surface undulated – these were tested and found to be quite shallow with no sign of any archaeological features underneath, they have been interpreted as the result of natural silting into these hollows.

Six postholes on the boundary of the palisaded enclosure were recorded in an irregular line running roughly NNW-SSE within the trench. These were numbered 1-6 from NW to SE. The posts were fairly regularly spaced c.5m apart.



Figure 3: Palisade posthole 1 shortly after excavation commenced

Palisade posthole 1

Palisade posthole [7006] was half-sectioned north to south and the east half excavated. This posthole was 0.8m x 0.5m in plan, with a depth of 1.05m and had vertical sides and a rounded bottom. The upper fill was a friable medium yellow brown clay silt (7007). Underlying this was a postpipe (7015), measuring up to 0.68m across, and defined as a firm dark black brown clay (7016). The postpipe contained frequent charcoal inclusions as well as a few small fragments reddened, burnt stones and this is possibly the result of a secondary deposition of burnt material into the hollow left by the rotting post. Beneath this was a medium compaction, medium yellow brown silt (7042) with more angular stone inclusions and infrequent charcoal inclusions. This was overlying (7068) (same as 7066); a medium compaction, dark black brown clay silt with a high frequency of charcoal. The final fill of the posthole was (7075); a friable sandy silt with some larger stones that may have been tumbled packing. This also contained a high charcoal content indicating a large amount of burnt material had been deposited into the posthole before or during the erection of the posthole. After the postpipe had been excavated the packing around the edges was removed to reveal the cut of the posthole itself. The packing for this posthole was (7017)

and contained a high frequency of stone inclusions up to 25cm across; some of these were the typical flat stones ideal for packing the base of the post in the posthole.

Palisade posthole 2

Palisade posthole [7012] had a ramp on the west side. The cut measured 2m east-west by 1.1m, with a maximum depth of 1.2m. Other than the ramp, the posthole had vertical sides, and a rounded bottom. This feature was half-sectioned east to west and the southern half excavated to provide a profile on the ramp. The upper fill (7013) was a loose dark grey brown sandy silt which extended over most of the ramped area. Below this was a loose to firm fill of dark orangey brown sandy silt (7018) with indistinct areas and concentrations of pebbles. Underlying this was a firm dark yellowy brown sandy silt (7020), this extended to the base of the posthole. In areas a hard pinkish grey clay (7045) was found lining the posthole – this could indicate re-deposited natural incorporated into the packing or a deliberate attempt to line the posthole against water. Two polished stones and a polished quartz pebble were found mixed in with packing material – this could suggest deliberate deposition or that these were discarded and included in the posthole accidentally. After the posthole was fully recorded in half-section the other half was excavated to reveal the scale of the ramp. This fully excavated posthole illustrated the scale and effort required to dig these postholes and pull the posts upright (see Figure 4).



Figure 4: South facing section through Palisade posthole 2 with ramp to left of section

Palisade posthole 3

Palisade posthole [7040] was sectioned east to west and the northern half excavated. This was a similar strategy as that utilised with palisade 2 to explore the location of a possible ramp, although one was not identified. Smaller than the previous postholes, this cut measured 0.8m by 0.6m in plan, with maximum depth of 0.8m, with steep sides (vertical on the north side) and an irregular rounded bottom. The upper fill was (7041) a firm dark grey brown clayey silt. This overlay lower fill (7071), a firm medium black brown clayey silt with frequent charcoal inclusions. The natural around this cut was very friable in direct contrast to the other postholes which were cut into very compact natural. This in addition to the

straightforward nature of the fills and the unusual, shallow cut shape possibly indicates the area had been disturbed, perhaps as a result of the post falling over or being removed.

Palisade posthole 4

Palisade posthole [7021] was half-sectioned north to south and the eastern half excavated first. More or less circular in plan, this feature measured 1.18m across, with maximum depth 1m, vertical sides and a rounded bottom. The base of this posthole more or less reached the water table during excavation. The upper fill of this feature was a firm dark reddish brown clayey silt (7048). Underlying this was a firm light orange brown silty sand (7058) and below this a loose orange-brown silty sand (7064). (These fills may represent a faint postpipe.) The primary fill was a loose greyish brown sandy silt with charcoal inclusions (7067). Substantial packing stones (7070) were identified on either side of the post-pipe. Once fully recorded the posthole was excavated fully but no ramp was present, indicating an individual and inconsistent approach to the erection of posts.

Palisade posthole 5

Palisade posthole [7033] was half-sectioned east to west and the southern half excavated. This was a large posthole, measuring 1.45m across, and up to 1.3m in depth, with vertical sides and a rounded bottom. The upper fill (7034) was a loose dark brown clayey silt with charcoal inclusions. Underlying this was a thin layer of loose light brown clayey silt (7074) with some larger stone inclusions. Underlying this were two fills; (7081) was concentrated on the east side of the posthole and consisted of a loose dark brown clayey silt. (7084) was concentrated on the west side of the posthole and consisted of a firm greyish pink clay, likely to be re-deposited natural utilised as packing. Fill (7082) was underlying both of these, and was a medium pinky brown clay silt with larger stone inclusions interpreted as tumbled packing stones, this was consistent with no postpipe being present suggesting that the postpipe had been disturbed by packing falling in from the side as the post rotted. Underlying this was a medium - firm orangey brown clayey silt (7083) with very frequent and large charcoal inclusions. This was the bottom fill and was difficult to excavate due to the small working space and depth of the posthole; the rich charcoal concentration indicates that a burnt deposit was placed in the bottom of the postholes before the post or could also be explained by charring the bottom of the post to increase the longevity of the post while in the posthole. No ramp was in evidence although it is possible that there was one to the north of the posthole there was no time to investigate this further within the project timetable.

Palisade posthole 6

Palisade posthole [7035] was half-sectioned north to south and the eastern half excavated due to the western half being inaccessible under the edge of the trench. The upper fill (7036) was a firm dark greyish brown silt overlying a firm dark reddish brown silt (7050). While excavating (7050) the postpipe became apparent, and continued into the underlying fill (7055) a firm mid greyish black silt. Underlying this was a friable mid-reddish brown silt (7078) centered in the middle of the post-pipe. This was surrounded on with side and underneath by (7059) a firm mid-greyish brown silt. Underlying this on the southern side of the posthole was (7056) a firm dark brownish black silt which was very charcoal rich and appeared to have spilled or eroded out of the packing at some point into the postpipe area. The postpipe fills continued with a friable mid reddish brown sandy silt (7077) overlying the bottom fill of (7065) a firm dark greyish brown sandy silt with charcoal inclusions. The packing was seemed different in character on the north side of the posthole with very large and substantial packing stones in (7080) while the south side had frequent stone inclusions

of a less substantial nature (7079). There was no evidence of a ramp on the eastern side once the posthole hole was fully half-sectioned.

Other Features

A pit [7023] was located just beside of palisade posthole 4 [7021], and therefore located on the exterior of the palisaded enclosure. It was originally thought to be a posthole and half-sectioned from north to south with the eastern half being excavated, however due to its shallow nature it was interpreted as a shallow sub-rectangular pit. This was a fairly large feature, measuring 1.4m by 1.34m in plan, with maximum depth 0.7m and a u-shaped, bowl-like profile. The upper fill (7024) was the most substantial, consisting of a firm dark grey brown sandy silt. This surrounded (7072), a firm dark black brown sandy silt with charcoal inclusions, likely a burnt deposit placed into the pit. Underlying this was (7073), the primary fill of the pit which was a firm mid grey-brown clayey silt with frequent stone inclusions. The relationship between this pit, and the palisaded enclosure is unknown.

Two possible post slots were identified running at right angles to palisade posthole 4 [7021]. Linear feature 1 [7025] was filled by (7026) a friable dark grey brown sandy silt. Underlying this was an insubstantial fill of friable dark orange brown sandy silt (7054). This slot, where excavated, was 0.6m wide and 0.4m deep. Linear slot 2 [7043] was filled by a firm medium orange brown clayey silt (7044). This slot, where excavated, was up to 0.7m wide and 0.42m deep. Underlying and to the side of this was a very stony fill with large sub-angular inclusions, likely to be packing stones (7044/7046). The base fill (7053) was a very compact concrete-like fill that had to be chiselled to remove. Tentatively, we could argue that these slots were foundations to support a structure or screen of some form, although again it is unclear how it might relate to the palisaded enclosure.



Figure 5: Section excavated through possible palisade / screen slot [7043]

Tree Throws

Three probable tree throws were identified and investigated in the trench.

Tree throw [7004] was had two fills, one a loose orange-brown silt with very frequent sub-rounded and sub-angular stones (7005), the other (in the eastern section) (7019) a similar loose fill with smaller pebbles. This was a substantial feature, measuring some 2.35m by 1.72m in plan, with depth of 0.25m.

Tree throw [7029] was smaller than [7004], measuring 0.7m by 0.49m in plan, with depth up to 0.32m. It had a single fill, (7030), a friable medium red brown sandy silt, much like the natural except for a higher silt content.

A final possible tree throw [7037] was excavated in two different areas, with a common upper fill, (7051), a loose dark orange brown sandy silt. This feature was up to 2m across and 0.36m, with depth of up to 0.47m. The feature was lopsided, with a near vertical side, and a shallow eastern side. In the southern excavated section underlying (7051) was (7052), a loose orange clayey silt. In the northern excavated section (7057), a firm dark grey brown clayey silt was underlying (7051) in this fill a large chunk of charcoal was sampled, with the aim of dating when the tree was blown/pulled down.

Discussion

At this stage, before post-excavation analysis and dating has been undertaken, the interpretations of the site, and answers to the research questions, are necessarily provisional.

What is the character of the features that make up the perimeter? Are they all postholes?

As far as Trench 7 demonstrated, the perimeter is delineated by postholes on average 5.5m apart.

Are the posts or features that make up the palisaded enclosure regular or irregular? Can we identify gaps, groups or segmented construction?

Within trench 7 the postholes are regular in terms of their location although they appear to have been treated individually in terms of post erection and closure. Within 7 there is no evidence of gaps, groups or segmented construction but it would be useful to investigate another area, or indeed a longer stretch of the boundary, to see if this continues for the extent of the enclosure.

Is the enclosure boundary of the same scale or character as the entrance avenue?

The enclosure boundary postholes appear to be generally slightly smaller in scale than the avenue in terms of posthole and therefore post size (see below). Postholes are generally further apart than was found at the avenue and no evidence was found for secondary, smaller postholes along the boundary as was found at the avenue.

Were ramps used in post erection, and do they have a consistent or irregular arrangement?

Ramps were used in some postholes for post erection but do not appear to have a consistent or regular arrangement. Interestingly, posthole [7021] is larger than [7012], yet does not have any evidence of a ramp, whereas [7012] is ramped. Although this could be due to plough truncation, it seems more likely that this reflects a real pattern where different strategies were used to erect similarly sized large posts. Perhaps this relates to different teams' working preferences or traditions. The stepped ramp leading into posthole [7012] is

on a larger scale than any previously seen in the palisaded enclosure, and may have facilitated easy access for posthole diggers as well as offering a ramp to aid post erection.

Is there any indication of a bank associated with the enclosure boundary?

There was no indication of any bank associated with the enclosure boundary, if any existed it is possible that this has been lost with modern plough truncation, nothing was apparent in the section of the field boundary that was cleaned up. Nonetheless, the digging of such large postholes would have generated a lot of spoil.

How big were the posts?

The size of the post-pipes should indicate the rough size of the posts used in the boundary postholes – ranging from c.0.65m to 0.85m diameter – which suggests these were substantial posts. Post depths of up to 1.3m indicate posts could have been in the order of 4.5m to 5m in height, although this is a minimum estimate due to plough truncation.

What wood type was used for the posts?

Substantial quantities of charcoal were found in various post-pipes which after analysis it should be possible to confirm the wood types used for posts. Typically, we would expect the wood type to be oak, as was the case at the entrance.

Can any ancillary features directly associated with the architecture of the palisaded enclosure be identified (e.g. smaller postholes between main ones, slots etc indicative of a continuous 'fence' boundary)?

There is no evidence of this although it is possible that smaller shallower features between posts have been lost due to intensive ploughing of the field. The post slots perpendicular from palisade 4 [7021] do not appear to relate to any other postholes in the boundary but may have formed a screen or 'wall' to one side of the post. It is also possible that these may have offered some kind of support for a post that was in danger of falling over.

Were deposits placed in the postholes (prior to post erection and/ or after the post was removed/decayed)?

Deposits of burnt material and the remains of fires/hearth clearing seem to have been placed into some of the postholes such as [7006] and [7033] before the posts or as part of the packing. It is hard to determine from these deposits if this is solely the result of burnt remains being deposited or also related to the charring of the post before they are placed in postholes.

Were the postholes a focus for deposition?

There is no evidence of any artefact or cremation deposits in the boundary postholes, in direct contrast to the avenue postholes, some of which contained deposits of burnt bone. Some stone tools found amidst packing in one palisade posthole may be indicative of some kind of special deposit.

Are there any other features/deposits present e.g. pits, lithic scatters?

One shallow pit to the exterior of the boundary contained a burnt, charcoal rich deposit. How this relates to the enclosure, if at all, is unclear.

What date was the monument constructed? Were all posts erected at roughly the same times? When in relation to the avenue?

Sufficient charcoal was sampled from each posthole that these questions should be possible to answer when carbon dating results are returned. These dates can then be compared to

the dates retrieved from the avenue excavation in 2007 and forthcoming dates from the excavations at Trench 5b in 2010 on some avenue and enclosure boundary postholes and observations made about the construction chronology of the monument.

Is there any evidence of re-use or re-cutting or phasing in the overall structure?

To fully answer this question the postholes need to be dated to compare with the avenue postholes. It would be ideal if another area of the palisade could be investigated to further answer these questions; however in Trench 7 there does not appear to be any re-cutting or post replacement.

What was the nature of the environment when the monument was constructed and in use?

Samples from the postholes were taken in order to retrieve palaeobotanical evidence which may provide information about the surrounding landscape. Dating from the tree throw could also cast light on this, providing further information on whether this was an entirely cleared area, a clearing within dense forest or lightly wooded on the interior. As yet, however, we are unsure if the tree throws have any association with the monument at all.

What happened to the posts? Was the same strategy applied to all posts? (in avenue, some were burnt, some were removed, some rotted)

The majority of the posts appear to have rotted with fills eroding in as this happened. However, one, [7040], appears to have been removed at some point or at least slumped and seriously disturbed the packing and natural around it. The smaller number of fills also indicated that the posthole may have been backfilled more rapidly than the others, possibly demonstrating a manual backfilling after the post was removed. No clear evidence was found of post burning here.

How long did the monument stand for? How long would it take for posts to decay?

Posts would be quite durable and there is possible evidence for attempts to increase their lifespan by lining the postholes with clay and charring the base of some of the postholes. It is likely that some posts would have lasted longer than others, perhaps leading to them being treated in different ways as the monument went out of use and posts were no longer maintained. The removal of posts means it is impossible to tell how long these stood for, even if we did calculate rates for oak decay for them.

Is there a relationship between the enclosure and the modern field boundary?

The track and fence line both appear to respect the line of postholes (on the map) but there was no definitive evidence to confirm a relationship between the enclosure and the modern field boundary. The posts in Trench 7 begin to curve away from the boundary to the south-west of the trench.

What is the preservation of soil deposits under the field bank compared to the rest of the excavation trench?

Soil deposits under the field bank retained moisture for longer; it is also likely that with the lack of intensive ploughing that the rest of the area has been subjected to that they are better preserved. The sections of the field bank did not show any significant stratigraphy to represent this better preservation.

Are there any traces of a track identified on the 1st edition OS and old maps?

A linear compacted area could be the ephemeral remains of the track identified on the 1st edition OS map. However this was only really identifiable by a slight darkening of soil and a slight increase in compaction when troweling. The area was planned and photographed but

had unclear boundaries. Nothing was identified in the small trench extension east of the field boundary.

Trench 5B

At the time of this excavation another trench (5B) was opened over the southern end of the avenue and some of the postholes of the enclosure heading south-west from the avenue were investigated (see Gould 2010). General comparisons can be made between these postholes and those investigated in Trench 7. In contrast to the postholes in Trench 7 the boundary postholes in 5B were slightly closer together and all had well-defined ramps. There was more variation between the postholes in Trench 5B than in Trench 7, indicating different construction methods being used in different localities around the monument. Deposition seems to be more apparent in the posts that make up the avenue and generally there appears to be more evidence of 'activity' in this section of the monument than in the 'periphery' revealed in Trench 7.

Conclusion

The evidence from Trench 7 points towards a sequence of six postholes making up part of the palisade enclosure. Each of these postholes is approximately the same distance apart indicating forethought and planning went into this structure as a whole. Contrastingly each posthole has been treated differently with differences evident in the method used to erect the posts – the presence of ramps with some postholes [7012] and not others (particularly [7021]).

Distinctions can also be made from the differing fills, with some postholes containing burnt deposits that could have been placed in the holes prior to the post or a result of charring some of the posts before they are placed in the postholes (particularly [7006] and [7033]). The closure of these structures also varies with some rotting in situ and others perhaps being removed or falling over [7040]. From the current evidence it is unlikely that any of these posts burnt were in situ the burnt deposits are related to certain areas of the post-pipes, not constant throughout all the fills. Burnt stone found in [7006] and [7033] indicate that the remains of fires or burnt refuse are deposited as packing stones and may also account for the charcoal concentrations. In [7006] a secondary deposition event of burnt material into the hollow left by the rotting post has occurred.

The post slots [7025] and [7043] and pit [7023] are indications of activity on the outer edge of the enclosure, although what their exact function is and whether they are directly related to the enclosure and each other, remains unclear. It is possible that this is indicative of zones of 'activity' on the periphery of the enclosure as well as the obvious centres around areas such as the henge monuments. Equally possible is that they demonstrate an earlier phase of activity sharing palisade posthole 4 [7021] which was then capitalised on when the enclosure was built at a later date.

The tree throws do not relate spatially to any of the other features and so it is difficult to determine if these are of any significance to the enclosure or create any implications for our views of the landscape at the time of the enclosure's use. Carbon dating of the charcoal found in [7037] might be useful to assist with these issues, although tree throws are notoriously difficult to date.

From these conclusions it is clear that further work must be done before all the research aims can be fully achieved; it is vital that dates are obtained from the charcoal found in the

postholes to ascertain whether the postholes are contemporary with other parts of the enclosure and analysis of this charcoal to confirm the types of wood used for the posts. It would also be useful to obtain dates for the tree throw to further advance our knowledge of the landscape and environment at the time of the palisade enclosure being built or in use.

Although much can be said from the data collected during the excavation of this trench in conjunction with the data from Trench 5B and the 2007 excavations it would also be useful to explore other areas of the enclosure boundary to provide a wider picture of the construction and use of this important monument. It is sobering to recall that perhaps as many as 300 posts were used to define the Forteviot palisaded enclosure. In Trench 7, we carried out a sample of 2% of the entire boundary.

Acknowledgements

The author would like to thank the landowners and Historic Scotland for their permission to excavate on this site. The project was partly sponsored by the British Academy (LRG: 45610); Historic Scotland (Archaeology Funding Programme) and the Universities of Glasgow and Aberdeen. The research of SERF is benefited by partnerships with the Royal Commission on the Ancient and Historical Monuments of Scotland (www.rcahms.gov.uk) and Perth and Kinross Heritage Trust (www.pkht.org.uk). Thanks also go to the directors and staff of SERF for their support and advice throughout the season. In particular, thanks go to Liam Clancy who held the post of supervisor on the trench and did a great job assisting with the record keeping and training of the students.

The line drawing was produced by Lorraine McEwan.

Final thanks go to all the students and volunteers on Trench 7, who did all the hard work.

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All other references refer to interim report and DSR statements – for these, go to www.gla.ac.uk/departments/archaeology/research/projects/serf/

Appendices

i) Contexts

Context Number	Area	Type	Description and Interpretation
7001	All	Deposit	Topsoil
7002	All	Deposit	Reddish orange sandy silt, Natural glacial till
7003	I - L	Deposit	Natrual deposit from possible water activity e.g paeleochannel
7004	A	Cut	cut of tree throw
7005	A	Fill	fill of treethrow 7004
7006	B	Cut	cut of posthole, palisade 1
7007	B	Fill	upper fill of posthole of cut [7006], small red stones possible evidence of burning
7008	A	Cut	Not used
7009	a	Fill	upper compacted fill - same as (7014)
7010	o	Cut	possible cut of modern sheep burial
7011	B	Fill	a modern animal bone deposit that has been disturbed and spread north by ploughing
7012	B/D	Cut	cut of posthole and ramp in palisaded enclosure
7013	B/D	Fill	Fill of posthole 7012, possibly rotten in situ
7014	a,c,d	Deposit	compacted silt deposit from palaeo-channel
7015	B	Cut	Cut of postpipe of palisade posthole [7006]
7016	B	Fill	postpipe upper fill of palisade 1 [7006], charcoal and red burnt stone show evidence of burning, large lump of charcoal at the bottom of the fill
7017	b	Fill	stone packing in post-pipe [7015] in posthole [7006]
7018	B/D	Fill	Second fill of palisade posthole [7012]
7019	A	Fill	second fill of tree throw [7004]
7020	B/D	Fill	Base fill of posthole (palisade 2) [7012]
7021	F/H	Cut	cut of palisade 4 posthole
7022	F/H	Fill	upper fill of palisade 4 posthole [7021] same as (7048)
7023	H	Cut	Cut of pit next to palisade posthole [7021]
7024	G	Fill	upper fill of pit [7023]
7025	D/F	Cut	cut of linear feature 1 - possible slot (NE)
7026	D/F	Fill	upper fill of linear feature 1 [7025]
7027	B	Cut	cut of treethrow S part, S of [7006] UNEXCAVATED
7028	B	Fill	upper fill of tree throw [7027] UNEXCAVATED
7029	B	Cut	cut of tree throw N part, S of [7006]
7030	B	Fill	upper fill of tree throw, [7029]
7031	B	Cut	cut of E part of tree throw, east of [7004] UNEXCAVATED
7032	B	Fill	upper fill of tree throw [7031] UNEXCAVATED
7033	G/I	Cut	cut of palisade 5 posthole
7034	G/I	Fill	upper fill of palisade 5 [7033]
7035	B/D	Cut	Cut of palisade post-hole 6
7036	K	Fill	upper fill of posthole (palisade 6) [7035]

7037	L	Cut	possible treethrow/natural deposit, approx. 8m across
7038	F	Cut	modern communication cable trench
7039	F	Fill	fill of modern cut, communications pipe
7040	D	Cut	cut of possible posthole (palisade 3)
7041	D	Fill	upper fill of palisade 3 posthole [7040]
7042	B	Fill	2nd fill of postpipe (palisade 1) [7006]
7043	F	Cut	Cut of post-slot
7044	F	Fill	upper fill of poss posthole slot [7043]
7045	B/D	Fill	clay fill in palisade 2 [7012]
7046	F	Fill	second fill of possible post slot [7043]
7047	B	Fill	dark lower fill of postpipe [7006]
7048	F	Fill	secondary fill of posthole, palisade 4 [7021]
7049	k	Cut	postpipe in palisade 6 [7035]
7050	K	Fill	upper fill of postpipe [7049], palisade 6 [7035]
7051	L	Fill	upper fill of [7037] tree throw
7052	L	Fill	lower fill of [7037] tree throw
7053	F	Fill	very compact packing fill of possible post slot [7043], underlying fill (7046)
7054	F	Fill	2nd fill of linear slot 1 [7025]
7055	K	Fill	a shallow fill of palisade posthole 6 [7035]
7056	K	Fill	charcoal rich fill of palisade posthole 6 [7035]
7057	L	Fill	compacted silt fill [7037], possible tree throw
7058	H	Fill	3rd fill in posthole palisade 4 [7021]
7059	K	Fill	greyish fill of palisade posthole 6 [7035]
7060	H	Cut	NOT USED
7061	H	Fill	NOT USED
7062	ext	Deposit	compacted road ruts?
7063	M,N	Deposit	silty compacted L-shape in south of trench
7064	G	Fill	4th fill posthole, palisade 4 [7021]
7065	K	Fill	lowest gravelly fill of palisade 6 [7035]
7066	B	Fill	band of charcoal rich layer in palisade 1 [7006] SAME AS (7068)
7067	G	Fill	bottom fill of posthole palisade 4 [7021]
7068	B	Fill	fill beneath charcoal rich layer, palisade 1, [7006]
7069	G	Cut	cut of postpipe in [7021]
7070	G	Fill	packing of posthole [7021]
7071	D	Fill	second fill (charcoal rich) of [7040]
7072	G	Fill	second charcoal rich fill in pit [7023]
7073	G	Fill	third, lower stony fill in pit [7023]
7074	I	Fill	second fill of posthole palisade 5, [7033]. Same as 7076.
7075	B	Fill	fifth fill of palisade 1 [7006], with charcoal patches. Large/medium stones near the edge were flat and possible packing stones that had tumbled in as the timber burned.
7076	I	Fill	third fill of palisade 5 [7033] same as (7074)
7077	K	Fill	gravelly lower fill of palisade 6 [7035]
7078	K	Fill	gravelly fill in centre of postpipe [7035]

7079	K	Fill	very stony fill, S side packing of posthole [7035]
7080	K	Fill	stone and clay, N side of packing of posthole [7035]
7081	I	Fill	fill of palisade 5 [7033]
7082	I	Fill	fill of palisade 5 [7033], possible natural clay redeposited for packing of posthole
7083	I	Fill	charcoal rich fill of palisade 5 [7033]
7084	I	Fill	fill of palisade 5 [7033], possibly redeposited natural, utilised as packing/lining

ii) Small Finds

Find Number	Context	Area	Material	Description	No. of Pieces	Easting	Northing	Height
7005	7018	B/D	Stone	smooth faced worn edges	1	996.28	990.364	999.38
7008	7047	B	Stone	possible burnt stone	1	997.49	991.358	999.13
7007	7039	F	Pottery	pottery, modern and thin sherd of modern glass	2	982.02	990.353	999.43
7009	7014	C	Bone	Knuckle bone, modern, burnt?	2			
7002	7016	B	Stone	possible red burnt stone from postpipe	2	997.46	996.245	999.42
7001			Stone	possible reddened burnt stone from postpipe	2	997.56	996.354	999.44
7006	7018	B/D	Stone	smooth faced worn edges	1	996.72	990.345	999.35
7004	7018	B/D	Stone	pebbles, quartz polished	1	996.7	990.75	999.52
7003	7016	B	Charcoal	possible reddened burnt stone with charcoal	6	997.55	996.136	999.42

iii) Drawings

Drawing Number	Area	Type	Subject	Description	Scale	Drawn By	Date
7001	A	Plan	7004, 7005	Pre-excavation plan of area A	1:20		04/08/2010
7002	B	Plan	7006, 7007	Pre-excavation plan of area B	1:20		05/08/2010
7003	C	Plan		Pre-excavation plan of area C	1:20	CIS	05/08/2010
7004	D	Plan		Pre-excavation plan of area D	1:20		05/08/2010
7005		Plan	7010, 7011	Pre-excavation plan of modern sheep burial	1:20	RML	05/08/2010
7006	E	Plan		Pre-excavation plan of area E	1:20	RML	06/08/2010
7007	F	Plan		Pre-excavation plan of area F	1:20	CIS	06/08/2010
7008		Section	7012	West facing section of cut [7012]	1:10		06/08/2010
7009	AC	Plan		Plan of AC adjunct	1:20	LCL	06/08/2010
7010	G	Plan		Pre-excavation plan of area G	1:20	JWA	07/08/2010
7011	H	Plan		Pre-excavation plan of	1:20		07/08/2010

				area H			
7012	I	Plan	7002	Pre-excavation plan of area I	1:20	JCA	07/08/2010
7013	J	Plan		Pre-excavation plan of area J	1:20	JSC	07/08/2010
7014	L	Plan		Pre-excavation plan of area L	1:20	CMA	07/08/2010
7015	K	Plan		Pre-excavation plan of area K	1:20	LCL	07/08/2010
7016	M	Plan		pre-ex plan of area M	1:20	JCA	08/08/2010
7017	N	Plan		pre-ex plan of area N	1:20	JCA	08/08/2010
7018	P	Plan		pre-ex plan of area P	1:20	JSC	08/08/2010
7019	O	Plan		pre-ex plan of area O	1:20	JCA	08/08/2010
7020	Q	Plan		pre-ex plan of area Q	1:20	LCL	10/08/2010
7021	R	Plan		pre-ex plan of area R	1:20	LCL	10/08/2010
7022	all	Plan	all	pre-ex plan of trench	1:100	LCL	10/08/2010
7023	d	Plan	7012	south facing section of posthole [7012]	1:20	RML	11/08/2010
7024	F	Section	[7043]	NE facing section of palisade slot 2	1:10	LCL	12/08/2010
7025	F	Section	[7025]	NE facing section of palisade slot 1	1:10	LCV	12/08/2010
7026	F	Section	[7038]	North facing section of modern cable ditch	1:10	CIS	12/08/2010
7027	F	Plan	7043, 7025, 7038	Post-ex plan of area F	1:20	CIS	13/08/2010
7027	F	Plan	7043, 7025, 7038	Post-ex plan of area F	1:20	CIS	13/08/2010
7028	L	Section	7037	NW facing section of [7037] tree throw	1:10		13/08/2010
7028	L	Section	7037, 7051, 7052	NW facing section of tree-throw [7037]	1:10		13/08/2010
7029	L	Plan	7037	Post-ex plan of [7037] tree throw	1:20		13/08/2010
7029	L	Plan	7037	Post-ex plan of [7037] tree throw	1:20	PBY	13/08/2010
7030	A	Section	7004	S. facing section of tree throw [7004] in area A	1:10	EHA	14/08/2010
7030	A	Section	7004	S facing section of tree throw [7004] in area A	1:10	EHA	13/08/2010
7031	Ext.	Plan		Pre-ex plan of extension	1:20	LCL	14/08/2010
7032	A	Plan	7004	Post-ex plan of tree throw [7004]	1:20	EHA	14/08/2010
7033	L	Plan	7037	NE facing section of tree throw [7037]	1:20	PBY	14/08/2010
7034	K	Plan	7035	Post-ex plan of palisade 6 posthole [7035]	1:20	EHA	15/08/2010
7035	B	Section	[7029]	post-ex west facing section of tree throw	1:10	CIS	17/08/2010

7036	G	Section	[7023]	post ex east facing section of pit	1:10	CMA	17/08/2010
7037	K	Section	7035	East facing section of posthole [7035]	1:10	JSC	18/08/2010
7038	B	Plan	7029	Post-ex plan of excavated tree-throw	1:20	RML	18/08/2010
7039	G	Plan	7021, 7023	Post-ex plan of palisade 4 posthole [7021] and pit [7023]	1:20		18/08/2010
7040	B	Section	7006	east facing section of [7006]	1:10	LHO	19/08/2010
7041	G	Section	7021	east facing section of posthole [7021] area G	1:10	RML	19/08/2010
7042	K	Plan	7035	post ex plan of palisade 6 [7035]	1:20	JSC	19/08/2010
7043	B/D	Plan	7012	post ex plan of [7012]	1:20	LCV	19/08/2010
7044	D	Plan	7040	post ex plan of posthole [7040]	1:20	JCA	19/08/2010
7045	D	Section	7040	north facing section of posthole	1:10	JCA	19/08/2010
7046	G	Plan	7021	post ex plan of palisade 4 [7021]	1:20	RML	19/08/2010
7047	I	Section	7033	south facing section of posthole [7033]	1:10	LCL	20/08/2010
7048	B+I	Plan	7033 + 7006	post ex plan of [7006] and [7033]	1:20	LCL	20/08/2010

iv) Samples

Sample Number	Context	Area	BagSizeNo	Reason	Taken By	Date
7001	7016	B	M	Botanics and Carbonised Material for ID and C14	LHO	07/08/2010
7002	7020	B/D	M	Botanics and Carbonised Material for ID and C14	CMA	07/08/2010
7003	7045	B/D	M	Botanics and Carbonised Material for ID and C14	CMA	10/08/2010
7004	7036	K	M	Botanics and Carbonised Material for ID and C14	JSC	10/08/2010
7005	7048	F	M	Botanics and Carbonised Material for ID and C14	JWA	11/08/2010
7006	7049	K	M	Botanics and Carbonised Material for ID and C14	JSC	11/08/2010
7007	7048	F	M	Botanics and Carbonised Material for ID and C14	JWA	11/08/2010
7008	7026	F	M	Botanics and Carbonised Material for ID and C14	LCV	11/08/2010
7009	7005	A	M	Botanics and Carbonised Material for ID and C14, clay fill of tree throw	EHA	12/08/2010
7010	7055	K	M	Botanics and Carbonised Material for ID and C14, fill of tree throw	JSC	13/08/2010

7011	7056	K	M	Botanics and Carbonised Material for ID and C14, fill of posthole	JSC	13/08/2010
7012	7057	L	M	Botanics and Carbonised Material for ID and C14, fill of possible tree throw	PBY	13/08/2010
7013	7041	D	M	Botanics and Carbonised Material for ID and C14	JCA	14/08/2010
7014	7058	G	M	Botanics and Carbonised Material for ID and C14	JWA	14/08/2010
7015	7058	G	S	Botanics and Carbonised Material for ID and C14	JWA	14/08/2010
7016	7065	K	M	Botanics and Carbonised Material for ID and C14	JSC	14/08/2010
7017	7030	B	M	Botanics and Carbonised Material for ID and C14	CIS	15/08/2010
7018	7066	B	M	Botanics and Carbonised Material for ID and C14	LHO	15/08/2010
7019	7064	G	M	Botanics and Carbonised Material for ID and C14	JWA	15/08/2010
7020	7023	H	M	Botanics and Carbonised Material for ID and C14	RML	15/08/2010
7021	7034	G/I	M	Botanics and Carbonised Material for ID and C14	PBY	15/08/2010
7022	7068	B	M	Botanics and Carbonised Material for ID and C14	LHO	17/08/2010
7023	7071	D	M	Botanics and Carbonised Material for ID and C14	JCA	17/08/2010
7024	7034	I	M	Botanics and Carbonised Material for ID and C14	LPR	17/08/2010
7025	7072	F	M	Botanics and Carbonised Material for ID and C14	CMA	17/08/2010
7026	7074	I	M	Botanics and Carbonised Material for ID and C14	LPR	17/08/2010
7027	7075	B	M	Botanics and Carbonised Material for ID and C14	LHO	18/08/2010
7028	7076	I	M	Botanics and Carbonised Material for ID and C14	LPR	18/08/2010
7029	7081	I	M	Botanics and Carbonised Material for ID and C14	LPR	18/08/2010
7030	7082	I	M	Botanics and Carbonised Material for ID and C14	LPR	19/08/2010
7031	7083	I	M	Botanics and Carbonised Material for ID and C14	LPR	19/08/2010
7032	7084	I	M	Botanics and Carbonised Material for ID and C14	LPR	19/08/2010
7033	7083	I	S	Botanics and Carbonised Material for ID and C14	LPR	20/08/2010
7034	7016	B	S	Botanics and Carbonised Material for ID and C14	LHO	20/08/2010
7035	7033	K	S	Botanics and Carbonised Material for ID and C14	JSC	20/08/2010

7036	7042	B	S	Botanics and Carbonised Material for ID and C14	LHO	20/08/2010
7037	7016	B	S	Botanics and Carbonised Material for ID and C14	LHO	20/08/2010
7038	7036	K	S	Botanics and Carbonised Material for ID and C14	LHO	20/08/2010
7039	7007	B	S	Botanics and Carbonised Material for ID and C14	LHO	20/08/2010
7040	7081	I	S	Botanics and Carbonised Material for ID and C14	LPR	20/08/2010
7041	7048	G	S	Botanics and Carbonised Material for ID and C14	JSC	20/08/2010

v) Digital Photos

Film	Frame	Area	Subject	Description	Direction	Initials	Date
001	1	All		General view of trench from west	West	CMA	03/08/2010
001	2	All		General view of trench from west	West	CMA	03/08/2010
001	3	All		General view of trench from west	West	CMA	03/08/2010
001	4	All		General view of trench from west	West	CMA	03/08/2010
001	5	All		General view of trench from west	West	CMA	03/08/2010
001	6	All		General view of trench from west	West	CMA	03/08/2010
001	7	All		General view of trench from west	West	CMA	03/08/2010
001	8	All		General view of trench from west	West	CMA	03/08/2010
001	9	All		General view of trench from south	South	CMA	03/08/2010
001	10	All		General view of trench extension from south	South	CMA	03/08/2010
001	11	All		General view of trench from south	South	CMA	03/08/2010
001	12	All		General view of trench from south	South	CMA	05/08/2010
001	13	All		General view of south of trench from west (No. 1)	West	CMA	05/08/2010
001	14	All		General view of south of trench from west (No. 2)	West	CMA	05/08/2010
001	15	All		General view of south of trench from west (No. 3)	West	CMA	05/08/2010
001	16	All		General view of south of trench from west (No. 4)	West	CMA	05/08/2010
001	17	All		General view of north of trench from west (No. 1)	West	CMA	05/08/2010
001	18	All		General view of north of trench from west (No. 2)	West	CMA	05/08/2010
001	19	All		General view of north of trench from west (No. 3)	West	CMA	05/08/2010

001	20	All		General view of north of trench from west (No. 4)	West	CMA	05/08/2010
001	21	All		General view of trench 7 extension from east	East	CMA	05/08/2010
001	22	All		General view of trench 7 extension from south	South	CMA	05/08/2010
001	23	All	7004	Plan of posthole from north [7004] (7005)	North	EHA	05/08/2010
001	24	All	7004	Plan of posthole from north [7004] (7005) No. 2	North	EHA	05/08/2010
001	25	All	7006	Plan of posthole from north [7006] (7007)	North	LHO	05/08/2010
001	26	All	7006	Plan of posthole from north [7006] (7007) No. 2	North	LHO	05/08/2010
001	27	All	7008	Plan of pit/posthole from west [7008] (7009)	West	JSC	05/08/2010
001	28	All	7008	Plan of pit/posthole from west [7008] (7009) No. 2	West	JSC	05/08/2010
001	29	All	7010	Plan of modern sheep burial	East	RML	05/08/2010
001	30	All	7010	Plan of modern sheep burial No. 2	East	RML	05/08/2010
002	1	B	7012	Plan of elongated posthole/pit	East	CMA	06/08/2010
002	2	B	7012	Plan of elongated posthole/pit No. 2	East	CMA	06/08/2010
002	3	C	7014	Plan of compacted deposit sondage	East	JCA	06/08/2010
002	4	C	7014	Plan of compacted deposit sondage No. 2	East	JCA	06/08/2010
002	5	B	7015	Plan of postpipe of posthole [7006]	North	LHO	06/08/2010
002	6	B	7015	Plan of postpipe of posthole [7006] No. 2	North	LHO	06/08/2010
002	7	A	7018	Plan of possible posthole south of trench edge	West		06/08/2010
002	8	A	7018	Plan of possible posthole south of trench edge No. 2	West		06/08/2010
002	9	O	7010	Plan of excavated half section burial	West		06/08/2010
002	10	O	7010	Plan of excavated half section burial No. 2	West		06/08/2010
002	11	O	7011	Section of burial	North		06/08/2010
002	12	B	7018	Section of postpipe - tipped stones	North		06/08/2010
002	13	B/D	7020	Section of posthole - 3 fills + tipped stones	South	CMA	07/08/2010
002	14	All		Working shot of postholes and planning	Northwest	CMA	07/08/2010
002	15	L		Semi-circular feature - possible tree throw	West	CMA	07/08/2010
002	16	All		Working shot of trench	South	CMA	07/08/2010
002	17	All		general view along palisade postholes	Southwest	CMA	08/08/2010

002	18	All		general view of offset postholes and possible slots	west	CMA	08/08/2010
002	19	P		general view of postholes/treethrow/ditch??	south	CMA	08/08/2010
002	20	L	7037	plan view of possible tree throw/natural deposit	West	CMA	08/08/2010
002	21	L	7037	plan view of possible tree throw/natural deposit	West	PBY	08/08/2010
002	22	F	7021	plan of posthole (palisade 4)	East	JWA	08/08/2010
002	23	F	7021	plan of posthole (palisade 4)	East	JWA	08/08/2010
002	24	F	7025	plan of possible slot/linear feature	West	LCV	08/08/2010
002	25	F	7025	plan of possible slot/linear feature	West	LCV	08/08/2010
002	26	F	7038	plan of modern drainage ditch	West	CIS	08/08/2010
002	27	F	7038	plan of modern drainage ditch	West	CIS	08/08/2010
002	28	F	7043	plan view of possible slot/linear feature 2	Northwest	LCL	08/08/2010
002	29	F	7043	plan view of possible slot/linear feature 2	Northwest	LCL	08/08/2010
002							
002							
002							
003	1	K	7035	Plan of P6 posthole	East	JSC	10/08/2010
003	2	K	7045	Plan of P6 posthole	East	JSC	10/08/2010
003	3	B/D	7045	Plan of (7045) clay deposit	South	CMA	10/08/2010
003	4	B/D	7045	Plan of (7045) clay deposit	South	CMA	10/08/2010
003	5	F	7038	Plan of partially excavated modern cable	West	CIS	10/08/2010
003	6	F	7038	Plan of partially excavated modern cable	West	CIS	10/08/2010
003	7	K	7049	Plan of posthole postpipe	East	JSC	11/08/2010
003	8	K	7049	Plan of posthole postpipe	East	JSC	11/08/2010
003	9	F		Plan (post-ex) of linear slot 2	Northeast	CMA	11/08/2010
003	10	F		Plan (post-ex) of linear slot 2	Northeast	CMA	11/08/2010
003	11	F		NE facing section of linear slot 2	Northeast	CMA	11/08/2010
003	12	F		NE facing section of linear slot 2	Northeast	CMA	11/08/2010
003	13	F		SW facing section of linear slot 2	Southwest	CMA	11/08/2010
003	14	F		SWfacing section of linear slot 2	Southwest	CMA	11/08/2010
003	15	B/D	7012	Post-ex plan of posthole	South	CMA	11/08/2010
003	16	B/D	7012	post-ex section of S facing posthole	South	CMA	11/08/2010
003	17	B/D	7012	post-ex section of S facing posthole	South	CMA	11/08/2010
003	18	G	7048	Working shot of packing tumble	East	JWA	11/08/2010
003	19	G	7048	Working shot of packing	East	JWA	11/08/2010

				tumble			
003	20	G	7048	Working shot of packing tumble	East	JWA	11/08/2010
003	21	D	7048	Pre-ex plan of posthole	south	JCA	13/08/2010
003	22	D	7048	Pre-ex plan of posthole	south	JCA	13/08/2010
003	23	L	7037	plan of possible tree throw or natural deposit	West	RML	13/08/2010
003	24	L	7037	plan of possible tree throw or natural deposit	West	RML	13/08/2010
003	25	F	7025	Ne facing section of post slot 1 [7025]	Southwest	LCL	13/08/2010
003	26	F	7025	Ne facing section of post slot 1 [7025]	Southwest	LCL	13/08/2010
003	27			Quadricopter flying over trench 8	North	CMA	13/08/2010
003	28			Quadricopter flying over trench 8	North	CMA	13/08/2010
003	29	A	7004	post-ex plan of tree throw	North	EHA	13/08/2010
003	30	A	7004	post-ex plan of tree throw	North	EHA	13/08/2010
004	1	D	7045	Clay lining of posthole	North	CMA	13/08/2010
004	2	D	7045	Clay lining of posthole	North	CMA	13/08/2010
004	3	H	7023	Posthole south pre- excavation shot	South	RML	13/08/2010
004	4	H	7023	Posthole south pre- excavation shot	South	RML	13/08/2010
004	5	A	7004	Section of tree throw [7004]	South	EHA	13/08/2010
004	6	A	7004	Section of tree throw [7004]	South	EHA	13/08/2010
004	7	L	7037	NE facing section of [7037]	Southwest	PBY	14/08/2010
004	8	L	7037	NE facing section of [7037]	Southwest	PBY	14/08/2010
004	8	L	7037	SW facing section of [7037]	Northeast	PBY	14/08/2010
004	9	L	7037	SW facing section of [7037]	Northeast	PBY	14/08/2010
004	11	L	7037	Plan view of [7037]		PBY	14/08/2010
004	12	L	7037	Plan view of [7037]		PBY	14/08/2010
004	13	H	7060	Pre-ex plan view of [7060]	South	EHA	14/08/2010
004	14	H	7060	Pre-ex plan view of [7060]	South	EHA	14/08/2010
004	15	K	7035	Plan of stone packing in P6 [7035]	West	JSC	17/08/2010
004	16	K	7035	Plan of stone packing in P6 [7035]	West	JSC	17/08/2010
004	17	G	7069	Plan of stone packing (7070) and postpipe	East	LCL	17/08/2010
004	18	G	7069	Plan of stone packing (7070) and postpipe	East	LCL	17/08/2010
004	19	I	7033	plan of 7033, palisade 5	West	LPR	17/08/2010
004	20	I	7033	plan of 7033, palisade 5	West	LPR	17/08/2010
004	21	I	7033	Section of (7033) palisade 5 (7034)	North	LPR	17/08/2010
004	22	B	7029	Post-ex plan of [7029], tree throw area B	North	CIS	17/08/2010
004	23	B	7029	Post-ex plan of [7029], tree throw area B	North	CIS	17/08/2010
004	24	G	7023	Post-ex plan of [7023]	East	CMA	17/08/2010
004	25	G	7023	Post-ex plan of [7023]	East	CMA	17/08/2010

004	26	G	7023	Section post-ex of (7022, 7072, 7073)	East	CMA	17/08/2010
004	27	G	7023	Section post-ex of (7022, 7072, 7073)	East	CMA	17/08/2010
004	28	B	7075	Section of [7006], 5th fill of palisade 1	East	LHO	17/08/2010
004	29	B	7075	Section of [7006], 5th fill of palisade 1	East	LHO	17/08/2010
004	30	D	7040	Section of [7040]	West	JCA	17/08/2010
005	1	D	7040	Section of [7040]	North	JCA	17/08/2010
005	2	D	7040	Section of [7040]	North	JCA	17/08/2010
005	3	D	7040	Plan of [7040]	North	JCA	17/08/2010
005	4	K	7035	Plan of posthole after packing removed	West	JSC	17/08/2010
005	5	K	7035	Plan of posthole after packing removed	West	JSC	17/08/2010
005	6	I	7033	Plan of postpipe	North	LPR	18/08/2010
005	7	I	7033	Plan of postpipe	North	LPR	18/08/2010
005	8	B	7075	Plan of palisade 1	North	LHO	18/08/2010
005	9	B	7075	plan of palisade 1	North	LHO	18/08/2010
005	10	B	7075	section of palisade 1	East	LHO	18/08/2010
005	11	B	7075	section of palisade 1	East	LHO	18/08/2010
005	12	I	7033	section of palisade 5 (south facing)	South	LPR	18/08/2010
005	13	I	7033	Plan of palisade 5 (north facing)	North	LPR	18/08/2010
005	14	D	7040	Post-ex plan of palisade 3 (south-facing)	North	JCA	18/08/2010
005	15	D	7040	Post-ex plan of palisade 3 (south-facing)	North	JCA	18/08/2010
005	16	D	7040	Post-ex section of palisade 3 (south-facing)	North	JCA	18/08/2010
005	17	D	7040	Post-ex section of palisade 3 (south-facing)	North	JCA	18/08/2010
005	18	I	7033	Section of palisade 5	South	LPR	18/08/2010
005	19	I	7033	Plan of palisade 5	North	LPR	18/08/2010
005	20	I	7033	plan of palisade 5	North	LPR	19/08/2010
005	21	I	7033	plan of palisade 5	North	LPR	19/08/2010
005	22	I	7033	section of palisade 5	South	LPR	19/08/2010
005	23	I	7033	section of palisade 5	South	LPR	19/08/2010
005	24	B	7006	plan of palisade 1	North	LHO	19/08/2010
005	25	B	7006	plan of palisade 1	North	LHO	19/08/2010
005	26	B	7006	section of palisade 1	East	LHO	19/08/2010
005	27	B	7006	section of palisade 1	East	LHO	19/08/2010
005	28	H	7021	plan of palisade 4	East	RML	19/08/2010
005	29	H	7021	plan of palisade 4	East	RML	19/08/2010
005	30	H	7021	east facing section of palisade 4	East	RML	19/08/2010
006	1	H	7021	east facing section of [7021]	East	RML	19/08/2010
006	2	K	7035	east facing section of [7035]	East	JSC	19/08/2010
006	3	K	7035	east facing section of [7035]	East	JSC	19/08/2010
006	4	I	7033	post ex plan of [7033]	south	CMA	20/08/2010
006	5	I	7033	post ex plan of [7033]	south	CMA	20/08/2010

006	6	I	7033	east facing section of [7033]	south	CMA	20/08/2010
006	7	I	7033	east facing section of [7033]	south	CMA	20/08/2010
006	8	I	7033	post ex plan of [7033]	south	CMA	20/08/2010
006	9	I	7033	post ex plan of [7033]	south	CMA	20/08/2010
006	10			general view of people in postholes	south	ADW	20/08/2010
006	11			general view of people in postholes	south	ADW	20/08/2010
006	12			general view of people in postholes	south	ADW	20/08/2010
006	13			general view of people in postholes	south	ADW	20/08/2010
006	14			general view of people in postholes	south	ADW	20/08/2010
006	15			general view of people in postholes	south	ADW	20/08/2010