

Knowe of Swandro

Data Structure Report: 2024 Field Season



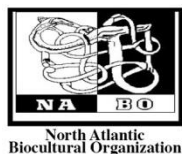
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With a contribution from Gerry McDonnell



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2025: School of Archaeological and Forensic Sciences, University of Bradford

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Unless otherwise stated, all photographs are by Stephen J Dockrill.



Katherine Marwick pictured holding the 2024 Current Archaeology Rescue Project of the Year

1. Excavations at the Knowe of Swandro, Rousay

Stephen J. Dockrill and Julie M. Bond

1.1 Introduction

The Knowe of Swandro on the Orcadian island of Rousay (HY 3753 2966) consists of an eroding mound with obvious stone inclusions, which is situated immediately behind a boulder beach on the Bay of Swandro (Figures 1 and 2). On its eastern flank is the Norse settlement site known as Westness, excavated by the Norwegian archaeologist Sigrid Kaland in the 1970s (Kaland 1993). Described by RCAHMS in 1946 as ‘the much disturbed remains of a stony mound’, the Knowe has generally been considered to be the remains of an Iron Age broch. At the top of the mound a crescent-shaped ridge faced towards the sea, which looked like the disturbed remains of a curving wall, surrounding a hollow. Ordnance Survey records suggested it had been investigated at some point in the past but there is no published record. The mound may have been disturbed during earlier investigations; the inference that Radford had excavated here (or indeed on the Westness houses) now seems unsupported by any evidence other than a passing reference (Wilson and Hurst 1964, 240) though it may be that Grant investigated the mound around the time he excavated the longhouse in 1946 (n.a. 1949). Assessment over several seasons (2010–17) has shown that this mound is actually the focus of a multiperiod settlement and that the roundhouse is a much-modified structure.



Figure 1: Location Map showing the position of the Knowe of Swandro on the southwest coast of Rousay. Contains OS data © Crown copyright and database right 2020 (L.D. Brown)

Due to the vulnerability of the remains at Swandro, work so far has concentrated on the investigation of the beach area of this site. This research builds on the site and landscape studies undertaken at Tofts Ness, Sanday (1984–88) by Dockrill (Dockrill *et al.* 2007a), Old Scatness and

Jarlshof (1995–2006) in Shetland by Dockrill and Bond (Dockrill *et al.* 2015; Dockrill *et al.* 2010; Dockrill and Bond 2009) and the Viking Unst project (2006–08) by Bond (Bond 2013).

The investigation of this eroding site takes place within a research framework designed to answer specific research questions. The work also demonstrates the relevance of the disappearing record and has enabled a greater understanding of the nature and rate of the threat by assessing the site over a number of seasons. The long settlement history or 'biography' revealed by the erosion enables the study of human behaviour in this particular place through major changes in culture, climate and environment.

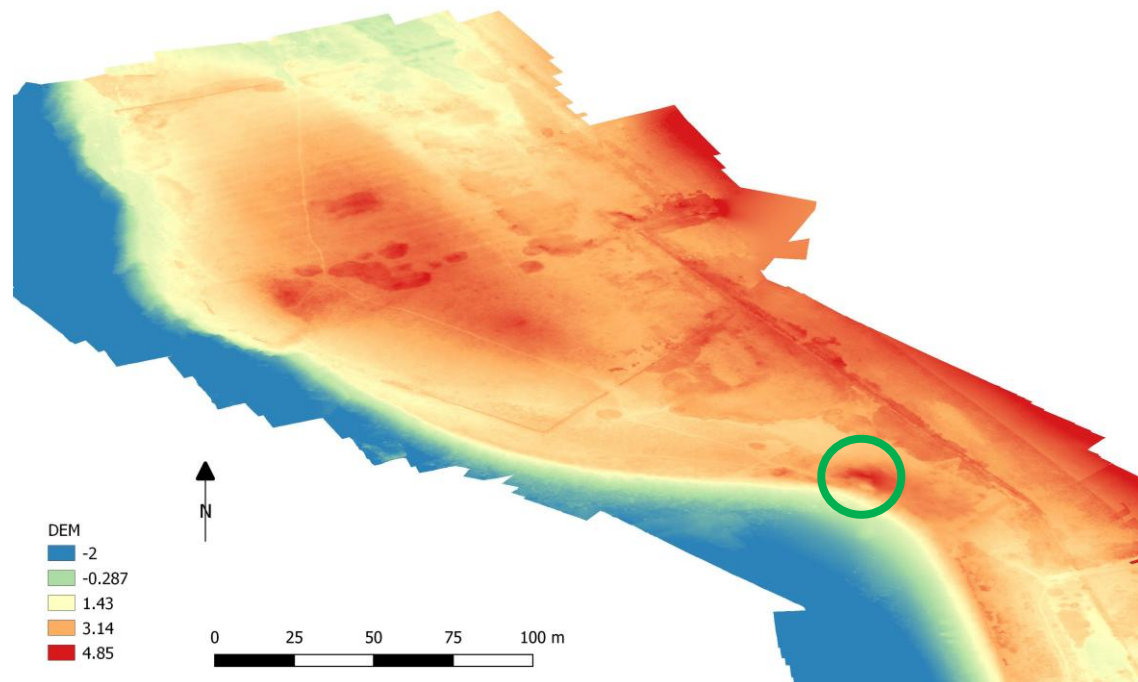


Figure 2: The location of the Knowe of Swandro (green circle) within its immediate landscape setting (Digital Elevation Model created by L. Kemp)

The key research questions for the project are:

- *What is the extent of the Iron Age settlement and how does this change over time?*
The understanding of the Iron Age settlement sequence in cultural and economic terms by the excavation and sampling of these truncated archaeological surfaces will provide a current and informed understanding of people living on Rousay in the Iron Age and how this changes over time (ScARF 2012, 62).
- *What is the stratigraphic association with the Norse settlement and what does this tell us about the nature of the Pictish/Viking cultural interface?*
The taking of existing estates by Scandinavian settlers is still a contentious issue in terms of its nature and date. Only with more detailed excavation will it be possible to gain an insight into this important transition on what increasingly seems to be a vital type site for this transition period.

Swandro is an unusual site in that although coastal erosion sites have been identified and studied on numerous occasions, the survival of deposits of this nature beneath an active boulder beach had not previously been recognised. This has implications both for future survey and for heritage management. The excavation is providing an important understanding of the erosion processes that take place on a beach such as this and the nature of the archaeological survival in these

conditions. It is also enabling the development of appropriate recording methods. This work has wider implications as it will help to inform the future management of other such sites.

1.2 Re-evaluation of the project following the 2018 field season

The complexity of the later stratigraphic Iron Age sequences within the monumental stone structure identified in the 2018 season (year one of the original Historic Environment Scotland project) has necessitated a revised approach (see below and Table 5). The archaeological deposits excavated in 2018 are rich in both animal bone and pottery, and have demonstrated the survival of a previously unsuspected complex later structural sequence involving a roundhouse form with later Pictish sub-divisions (date at this stage is suggested by both constructional form and artefacts). The Iron Age component did not survive to any degree under the boulder beach, however the sequences on the landward side provide the opportunity to examine the complex development of the Iron Age roundhouse and also provides context to the truncated Iron Age remains found under the boulder beach to the southeast of the casement wall of the cairn.

The examination of the substantial Iron Age roundhouse and its later modification will help provide a detailed chronology for the building sequence, allowing a fine-grained chronology to be constructed (in line with the Iron Age Scotland: ScARF Panel Report recommendation 5.12; ScARF 2012). The addition of Dr Cathy Batt and archaeomagnetic dating of the potential hearths surviving in the later Pictish building and underlying roundhouse is seen as being essential. The integration of archaeomagnetic and AMS radiocarbon dates and the use of Bayesian statistical analysis at Old Scatness (Dockrill *et al.* 2015) has demonstrated that producing a refined chronology can add value to the artefact and ecofact assemblages of such complex sites (as suggested in the Iron Age Scotland: ScARF Panel Report recommendation 9.6: ScARF 2012).

1.2.1 Redefined research aim and objectives

Aim

The excavation and analysis of the partly eroded Knowe of Swandro, representing a monumental structure with evidence of casement walling suggestive of a Neolithic chambered cairn with an inserted Iron Age roundhouse and later Pictish structural sequences.

Research objectives

1. An understanding of the complexity of the stratigraphic sequence. The determination of the biography of the site will enable an understanding of development and usage of the monument. The identification and recording, with three-dimensional methods, of construction, use, modification, reuse and abandonment events will enhance our understanding of the human activities forming the archaeological record and the interrelationships between Neolithic monumental structures and their re-use in the Iron Age. This objective will inform on the research recommendations outlined in Section 5.12 of the Iron Age Scotland: ScARF Panel Report (ScARF 2012).
2. An understanding of the monumental structure and its casement walling, passage and internal cells. This monument does not correspond to broch architectural features. The exposed seaward section sealed by the boulder beach is heavily eroded with no cultural material surviving. The presence of the top of a corbelled cell or chamber suggests the presence of a possible side chamber like that of a chambered cairn.
3. To provide an absolute chronology for the Knowe of Swandro. The integration of the archaeological sequence with a scientific chronology derived from an enhanced dating

programme based on AMS radiocarbon dating and the integration of archaeomagnetic dating of hearths that may be contained in the later Iron Age occupational sequence.

4. An understanding of the cultural and economic development of a long Iron Age occupational sequence suggested by the archaeological sequence revealed in 2018. The truncated (eroded) sequence recorded in the evaluation phase of the Iron Age deposits suggests that the site predates the first century BC and the finding of a 9th century AD coin of Eanred from the passage indicates a long and complicated sequence. This period sees important social and economic changes as evidenced at Old Scatness, Shetland (Dockrill *et al.* 2010; 2015). This is also seen in the architectural development and forms an important area still requiring greater understanding (ScARF 2012, 62).
5. An understanding of the formation processes and effects of the tidal and storm damage in order to enhance future management strategies. The digital and three-dimensional recording of the structural elements of the site to provide a legacy for future research and as a local resource, in the face of the inevitable erosion of the monument.

1.3 Evidence derived from the evaluation, 2010–17

The evaluative investigation 2010–17 defined the extent and nature of the archaeological survival (structural elements and the survival and degradation of *in situ* midden deposits) on the eroding beach. This work has provided an important understanding of the erosion processes and the archaeological survival and has enabled the development of recording methods applicable to this project. This work will help to inform the future management of other such sites across the North Atlantic.

The evaluation demonstrated that the seaward deposits surviving at the lowest of the sea-cut erosion terraces have suffered from extensive erosion with much of the midden material having been washed away and the larger structural stones having been smoothed by the movement of water and beach material. Approximately 40–50% of the central roundhouse is at present subject to attack by the sea. The seaward casement walling (approximately 30% of the structure) is in particular subject to erosion from tidal movement where the effects of scouring and suction of softer archaeological deposits occurs, leaving *in situ* only the more substantial stone elements. Even some of the large facing stones have been lost to the sea; this is obvious when a comparison is made between the survival of remains uncovered in 2012 and again in 2015. Much of the core material retained by the lower casement wall faces has also been lost over this period. Work in 2016 evaluated the survival of the south-eastern outer casement face and its relationship with a single-faced wall that butts the outer circumference wall of the chambered cairn. Excavation revealed that the sea had scoured out all of the original deposits that would have been associated with these structural features. The area to the south-east (seaward) side had been infilled by mixed redeposited beach material. A number of redeposited large boulders were in this area. These appeared to be embedded, having been thrown down with some force presumably by high-energy wave action during storm events. It was hoped that an old ground surface might have survived but the scouring effect of the sea had removed all evidence of this.

The passage through the casement walling located on the upper beach terrace appears to have been disturbed in the Pictish or Viking period. The upper infill contained a styca of Eanred of Northumbria (a ninth-century king) and this, plus the butchery marks seen on animal bone from the top of the passage fill which had been made with a large metal blade, supports the possibility that the infill might be associated with Viking re-organisation of the settlement prior to the later construction of the surviving Norse longhouses.

1.4 The excavation phase

The work in 2018 saw the start of the full excavation of the coastal archaeology at the Knowe of Swandro in advance of its destruction by the sea. This project is facilitated by a grant from Historic Environment Scotland.

Table 1 sets out the original proposed project timeline. The first season of excavation in 2018 (see Bond and Dockrill 2019) revealed a stratigraphic complexity not observed in the parts of the site on the actively eroding beach which were investigated in 2012 and 2015 as part of the evaluation. Instead, the excavation revealed an unsuspected and significant middle and late Iron Age sequence of settlement actually within the monumental structure. This led to an application to Historic Environment Scotland to enable a further excavation season in 2020. However, the appearance of the Covid-19 pandemic in the spring of 2020 and subsequent restrictions on work and travel in 2020 and 2021 meant considerable adjustments to the timetable. Thanks are owed to both Historic Environment Scotland and Orkney Islands Council for allowing flexibility in the timetable for work and funding.

Figure 3 shows the trenches excavated during the investigation phase and the excavations with Table 2 providing more information. Buildings are assigned a 'Structure number', a unique interpretative number that is given to all contexts that appear within or define a building, and these are shown on Figure 3 and explained in the accompanying table, Table 3.

Time period	Activity
June – August 2018 (6 week period)	Excavation
Late September 2018 – May 2019	Post-excavation
June – August 2019 (8 week period)	Excavation
Late September 2019 – May 2020	Post-excavation
<i>June – August 2020 (8 week period)</i>	<i>Excavation – Postponed due to Covid-19 pandemic</i>
<i>June – August 2021 (8 week period)</i>	<i>Excavation – Postponed due to Covid-19 pandemic</i>
June – August 2022	Excavation
September 2022 – March 2023	Post-excavation
June – August 2023	Excavation
September 2023 – March 2024	Post-excavation
June – August 2024	Excavation
September 2024 – March 2025	Post excavation
June – August 2025	Excavation
September 2024 – March 2025	Post excavation and preparation for publication

Table 1: Summary of the project's timeline (as of March 2023 and subject to change due to permission and funding)

Area	Colour on Figure 3	Years open	Notes
A	Red	2010–11	
B	Blue	2010–11 / 2013	
C	Green	2012	
D	Yellow	2012 / 2023	Smaller excavation area in 2023
E	N/A	2013–17	Consolidated beach area comprising Areas A, C and D
E	N/A	2018	Now including Area B and Str3 extension
E	Purple	2019	Extended to the NW and SE of the main area
F	N/A	2023	Outside scheduled area; features associated with the Westness longhouse

Table 2: Excavation areas



Figure 3: Plan of the excavated areas annotated with areas (see Table 2) and structure numbers (see Table 3; L.D. Brown)

Structure number	Date	Description
1	Iron Age	Roundhouse
2	Mid to Late Iron Age	
3	Mid Iron Age	'Smithy'
4	Late Iron Age? to Pictish	Orthostatic structure close to cairn wall
5	Mid Iron Age	(sits within north-eastern half of Structure 6)
6	Late Iron Age	Roundhouse
7	Iron Age	Section of wall of large ?Iron Age roundhouse
8	Early Iron Age	Outer cairn wall demonstrating the fullest extent of the circular structure. Roundhouse.

Table 3: Structure numbers

1.5 Note on the project's recording methodologies

1.5.1 The site grid

The site grid lies approximately North–South / East–West (see Figure 4) and can be related to the Ordnance Survey National Grid (OSGB, EPSG 27700) with a local origin. In 2019 the site grid was tied into the Ordnance Survey National Grid.

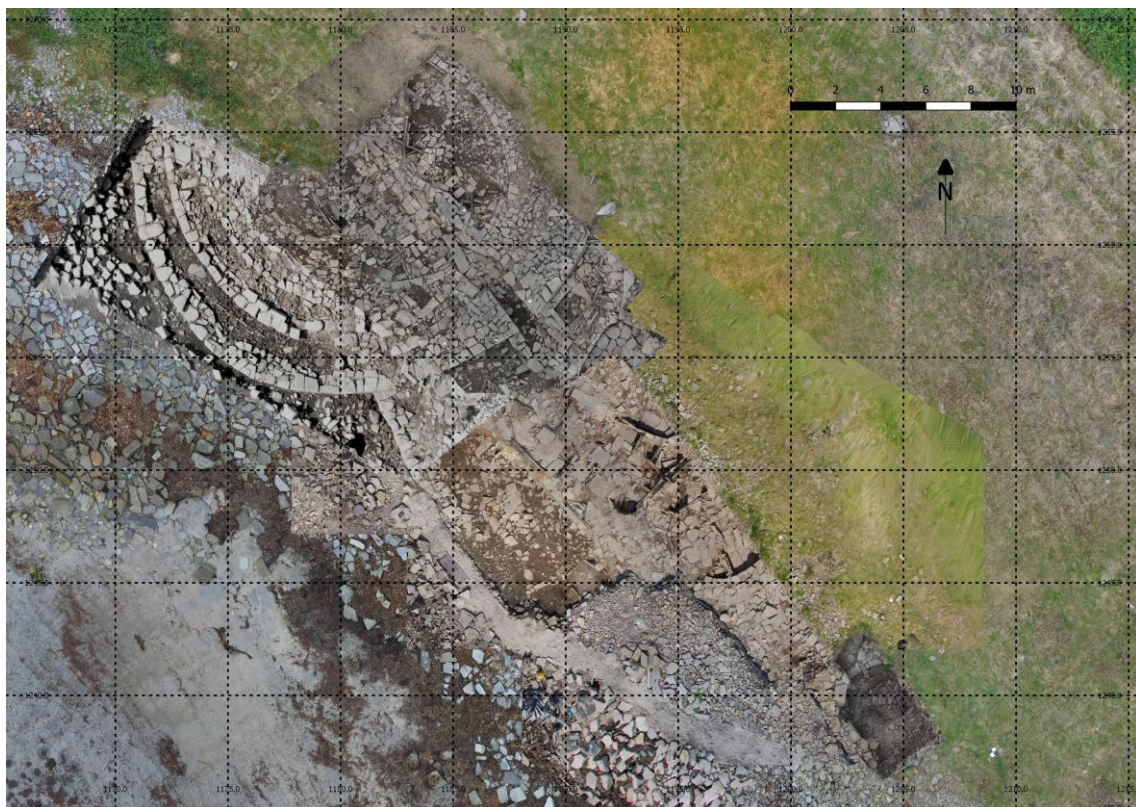


Figure 4: Composite orthographic (photogrammetric) plan of excavation area showing the site grid (using 2018 data and evaluation excavation data from 2015–2017; produced by L. Kemp).

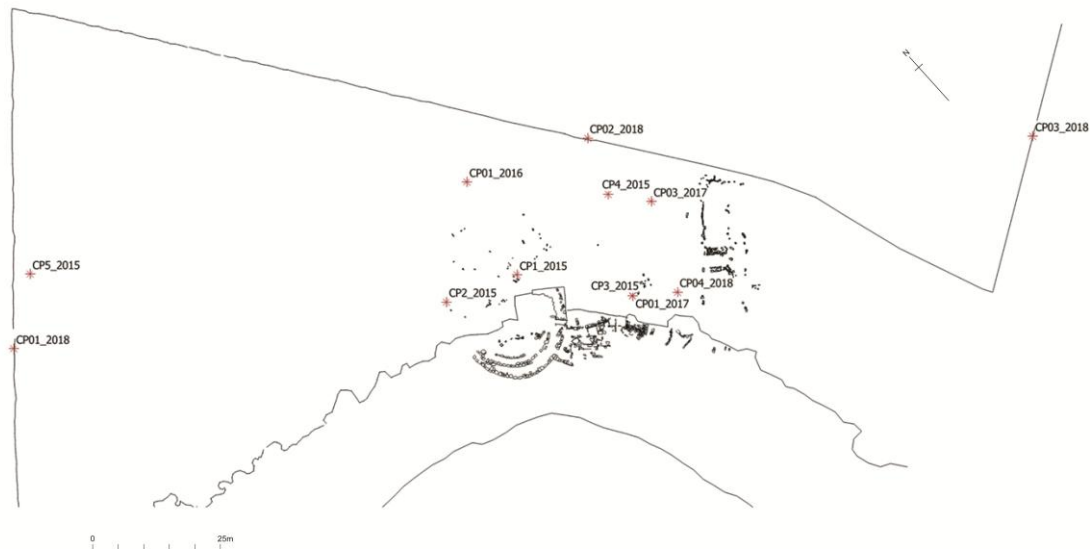


Figure 5: Plan of the site showing the location of the survey control points (University of Bradford)

A series of control points have been set up around the site (Figure 5) to enable the accurate three-dimensional recording of the excavation through more traditional survey techniques, and also the extensive laser scanning and photogrammetry taking place during the excavations.

1.5.2 Phased composite excavation

The excavation is defined as an 'open area' excavation; there are no gridded trench systems covering the site as advocated by Wheeler (1954). This form of excavation allows the excavation sequence to be viewed as a whole and facilitates the whole being excavated in stratigraphic order of the site and not the stratigraphic order of only one part of the site.

Many exponents of area excavation and Harris matrices use a single context planning system to archive, by drawn and photographic record, each stratigraphic unit. Although this is useful on many sites with relatively simple stratigraphic sequences it is problematic on complicated stratigraphic sequences with several metres of deposit. The recording system and excavation methodology used during the excavations has evolved over the last 35 years. The site is excavated as a whole by stratigraphic order with groupings of contexts representing contemporary events in time (phases). Essentially, each of these phases may contain either one or a number of contexts. Such a phase may be part of one building or a group of buildings that represent the site at a single point in time.

1.5.3 Context recording

Each context is recorded on site using recording forms and mirrored with a digital entry into the Tap Forms database (www.tapforms.com) using an iPad. At the time of recording with the iPad, a photograph is taken of the context which is stored in the database (see Appendix 2). These photographs are record shots and are not the primary site photographic archive.

Drawn vertical sections are strategically placed through archaeological features to provide added detail to the record of stratigraphic relationships and the archaeological events that the contexts represent. These are complemented by digital sections generated from three-dimensional laser scan data. Due to the nature of the site it is no longer possible to draw plans safely and

accurately in the conventional manner. Drawn plans are derived from the accurate photogrammetry of the site.

1.5.4 Artefact recording

Every artefact from the excavation is treated as a unique find and is provided with a separate small find number. In doing so, each find spot can be three-dimensionally recorded, and each small find number equated with the context in which it was found. To simplify data handling every sample is also recorded in the unique artefact number system as the same information of context and position are required by these elements.

In addition to recording all artefacts recovered from the site by hand in a book, an iPad operating Tap Forms is also used. This enables the immediate digitisation and backing up of the data. It also enables a photograph of the artefact to be added to the database. At the Knowe of Swandro, a photograph is also taken of the find with the finds bag to help guard against any future errors (see Appendix 6).

2. Summary of the archaeology prior to the 2024 excavation

2.1 Introduction

The mound and settlement of Swandro consists of a large early to mid-Iron Age roundhouse forming a central focus to the site surrounded by houses dating from the Iron Age, Pictish and possibly Viking periods and enclosed by an early stone-lined ditch. There are strong indications that this central roundhouse had undergone major structural rebuilds. The site was originally thought to be a single small Iron Age house but investigations have shown that it is a much bigger structure and that the surrounding settlement extends under the beach; much of it has already been destroyed and it is being constantly eroded by the sea. The site is being excavated by the University of Bradford and the Swandro-Orkney Coastal Archaeology Trust with funding from Historic Environment Scotland, Orkney Islands Council, support from Rousay Egilsay and Wyre Development Trust, and other sources derived from fund raising by Dr Caz Mamwell of the Swandro Orkney Coastal Archaeology Trust, to gain as much information as possible before it is lost.



Figure 6: The location of the eroding archaeological sites of Swandro, South Howe and Yorville burnt mound (R. Maher)

The research project by the University of Bradford commenced in 2010. Its aim was to look at several small sites along the Rousay coastline which were being eroded by the sea. The sites had been suggested by Julie Gibson, the then County Archaeologist and a resident of Rousay, who has long been concerned about the loss of archaeological sites to rising sea levels. The project eventually settled on examining and recording the coastal erosion at South Howe broch and examining the surviving remains endangered by the sea at the Knowe of Swandro.

2.2 Investigations at South Howe

The aim of the 2010 season at South Howe broch was the characterisation and examination of the potential of the surviving archaeology in the cliff exposure. The large expanse of exposed wall

core that forms the apex of the visible mound was not cleaned and was left untouched in order to maintain the stability of the wall. Turf and slippage was removed to reveal the outer wall face and the exposed wall core. To the east of this truncated wall a wall face ran north; this wall face turned at 90° into a second wall that appeared to run west into the mound and form the inner wall of a broch-like roundhouse. The north-oriented face is interpreted as the side of an entrance passage. The remains of a broken lintel stub could be seen projecting from this wall.



Plate 1: The broch at South Howe, eroding from the cliff

The active area of erosion here extends for at least 70m along the low cliff face. In the centre of this eroding area are the remains of walling which appears to be the outer wall and entrance passage of a broch. This wall survives to a height of 2.5m and varies in width from 4.2m at its base to just under 3m at its highest point. Erosion to the west of this structure appears to be recent, with a cove-like zone extending 2m inland. This zone contained orthostats and flagging. A second zone of active erosion appears c.20m to the east. Examination of this area revealed a number of walls; their different construction strongly suggests that these remains represent a later phase of settlement, probably dating to the later medieval or early post-medieval period. South Howe, then, is a multiperiod settlement mound with a broch at its centre and settlement extending into the historical period.



Plate 2: South Howe: the later medieval or post medieval buildings eroding from the cliff face

2.3 The Knowe of Swandro

The Knowe of Swandro consists of a large mound situated immediately behind a boulder beach on the Bay of Swandro, although it is hard to make out the size of this mound in the current landscape, when viewed from the bottom of the mound on the landward side its true size becomes apparent. On the eastern flank of the Knowe are two Norse (late Viking period) houses known as the site of Westness, excavated by Walter Grant in 1946 and re-excavated by Sigrid Kaland in the 1970's (Radford 1962; Kaland 1993).

The excavations by Kaland suggest that some of the trenches went to the foot of the Swandro mound and possibly in some cases into the underlying prehistoric archaeology but no evidence of either the Grant or Kaland investigations has yet been found in the modern excavations.

The Knowe of Swandro was first recorded in the 1946 *Inventory of the Ancient Monuments of Orkney and Shetland* published by The Royal Commission on the Ancient Monuments of Scotland. The entry describes the site as being *"The much-disturbed remains of a stony mound. To judge from a series of large slabs set on edge over an area measuring roughly 72 ft by 24 ft there may have been a group of graves here, possibly of Viking origin."*

A later description of the Knowe, by the archaeological division of the Ordnance Survey in a field visit on the 8th of June 1967, described it as being *"a mutilated turf-covered mound 1.5 m. high, apparently containing the remains of a drystone structure. Unable to classify, but possibly associated with the nearby Viking hall"*.

A later entry field visit by the Ordnance Survey on the 10th of October, 1972 indicates that the mound contained a structure. *"The size and shape of this turf-covered mound suggests it to be*

the NE half of a broch, and a trench cut across it (but now filled in) revealed enough surviving walling to support this classification. Paving reaching from the nearby Viking hall for several yards towards this mound suggests that the mound provided a source of building material for the hall and farmstead”.



Plate 3: The Knowe of Swandro before excavation

2.4 Coastal erosion at Swandro

Our work started in 2010, with the discovery of set upright stones (or orthostats) protruding from the boulder beach. Investigation of these stones indicated that they formed the remains of a building that had been truncated by the sea. This led to a programme of work from 2011 to 2017 of evaluative archaeological excavations of the beach in order to determine the archaeological survival of the eroding deposits.

These evaluative investigations between 2010–17 defined the extent and nature of the archaeological survival on the eroding beach. They revealed a series of partially destroyed buildings together with midden deposits, in places intact and in other parts of the beach they were partly destroyed by the sea. This work has provided an important understanding of the erosion processes and the archaeological survival and has enabled the development of recording methods applicable to this project and a plan to investigate the remains that were most at risk. This research will also help to understand and plan the future management of other such sites across the North Atlantic.

The evaluation demonstrated that the seaward deposits surviving at the lowest of the sea-cut erosion terraces have suffered from extensive erosion, with much of the midden material having been washed away and the larger structural stones having been smoothed by the movement of water and beach material. Approximately 40–50% of the central roundhouse is already destroyed

or subject to attack by the sea. The seaward elements of the walling associated with the roundhouse have in particular been subject to erosion from tidal movement, the effects of scouring on the stone and removal by suction of the softer archaeological deposits being most apparent in this area. This has resulted in only the more substantial stone elements being left in place in some areas. Even some of the large facing stones have been lost to the sea; this is obvious when a comparison is made between the survival of remains uncovered in 2012 and again in 2015 and in 2019. Much of the core material retained by the lower casement wall faces has also been lost over this period.



Plate 4: The boulder beach at Swandro (Photography Kathryn Marwick)

Excavation revealed that the sea had scoured out all of the original deposits that would have been associated with these structural features. The area to the south-east (seaward) had been scoured out and then infilled by mixed redeposited beach material. A number of redeposited large boulders were found in this area. These appeared to be embedded, having been thrown down with some force presumably by high-energy wave action during storm events. It was hoped that an old ground surface might have survived but the scouring effect of the sea had removed all evidence of this.



Plate 5: Under the boulder beach at Swandro: the outer walls of the central roundhouse

Re-examining the effects of coastal erosion in 2022, after two years of absence due to Covid, indicated that the seaward side of the central roundhouse, which is under high tide level, had suffered greatly from erosion during this intervening period. An observation made in previous years suggested that the loss of finer archaeological deposits occurs through tidal action in addition to the more obvious erosion from high energy waves. The effects of tidal action combined with the through-flow of groundwater leads to the constant loss of finer deposits such as those with high ash or silt content which are being removed by tidal suction. Where the deposits are between or underlying walls, the effect is to enhance movement and slippage of the walls which will lead to their eventual collapse. These effects have resulted in a significant loss of archaeology. Some wall faces have partially collapsed and the wall coursing is tipping towards the sea due to the loss of underlying material.

The loss of finer material from the waterlogged underlying deposits due to tidal suction has also had an effect on the more substantial walling that survives above the high tide level. Here there was visible movement of structures, including the opening of joints in walling and cracks in large stones, together with a measurable loss of height due to the removal of underlying sediments by tidal action. The excavation and recording of the eroding part of the site is important in providing a record of movement, stone wear, and sediment loss. The use of new technology such as laser scanning is allowing us to compare the current situation with previous data sets from the site and to build up a model of the day to day loss of archaeology due to coastal erosion. Research by Nicola Burton using laser scanners has enabled 3D recording to take place, allowing these changes to be recorded and monitored over several years.

2.5 What Survives beyond the excavation: the geophysical investigation

A geophysical survey around the Knowe of Swandro was carried out by Professor Chris Gaffney and Tom Sparrow (Visualising Heritage, School of Archaeological & Forensic Sciences, University of Bradford) in order to assist with the interpretation of the ongoing excavations at the site. These surveys were carried out at the start of the 2019 excavation season and build upon previous surveys of the area. The 2019 surveys investigated the landward side of the site, which is not currently affected by erosion.

A number of integrated geophysical survey techniques including detailed earth resistance survey (Geoscan Research Twin-Probe), electromagnetic survey (GF Instruments CMD-Mini-Explorer), Ground Penetrating Radar (Mala X3M) and Electrical Tomography (ZZGeo FlashRES64) were used. These techniques allow data to be collected at multiple depths to allow for a better understanding of this multi-phase and multi-period site.

The detailed earth resistance survey indicated that the large roundhouse forming the main component of the Knowe of Swandro was surrounded by subsidiary buildings like those which had been seen in fragmentary form under the boulder beach, suggesting a significant nucleated settlement of village proportions around the large central roundhouse (Plate 6).

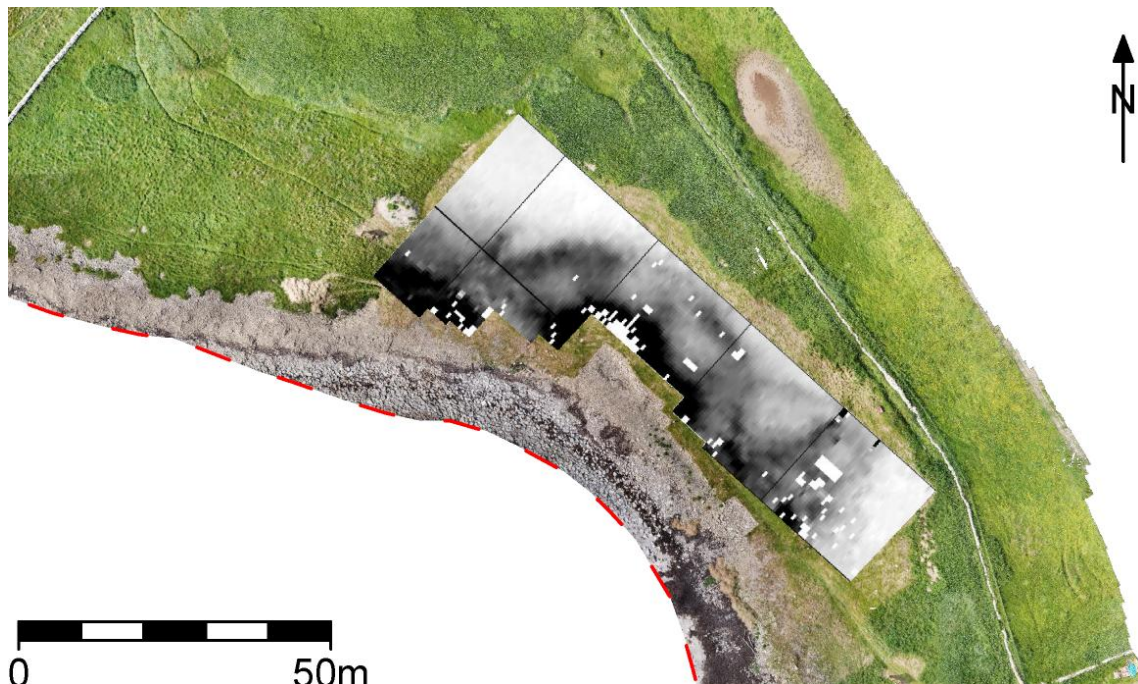


Plate 6: The georeferenced earth resistance survey showing the extent and form of the settlement next to the eroding coastline. The anomalies indicate that the roundhouse appears to be the focus for a nucleated settlement (Visualising Heritage, University of Bradford)

The Ground Penetrating Radar confirmed elements of results indicated by the area Earth resistance survey; particularly, showing archaeology concentrated around the physical mound of the Knowe of Swandro. However, the data collected from the GPR proved to be ambiguous and this is likely to be the result of the presence of saline water that inhibits the passage of energy through the soil.

The Electrical Resistivity Tomography (ERT) data was collected on the Knowe of Swandro in parallel traverses with their positions recorded in x,y and height to allow the data to be topographically corrected. This technique allows a vertical section through the ground to be

investigated. The traverses using the ERT were extremely successful and provide an extended view of the site by comparison with the other techniques. The ERT indicated the depth and extent of the archaeology and confirmed the focus of settlement on the coastal strip. This technique clearly indicates the depth of archaeology representing the settlement by the anomalies at the top of each traverse (Figure 7). These anomalies can be seen to diminish, becoming thinner as the traverses progress inland. The blue in these images is indicative of a low resistance response, interpreted as saturated material below the water-table. This has been corroborated in the excavation area where the water-table has been reached. More importantly in terms of future management and understanding, this survey demonstrates that the coastal strip is of great significance, containing the greatest depth of stratigraphy and that it is a finite resource, enhancing the value of the archaeological investigation before the site's destruction by the sea.

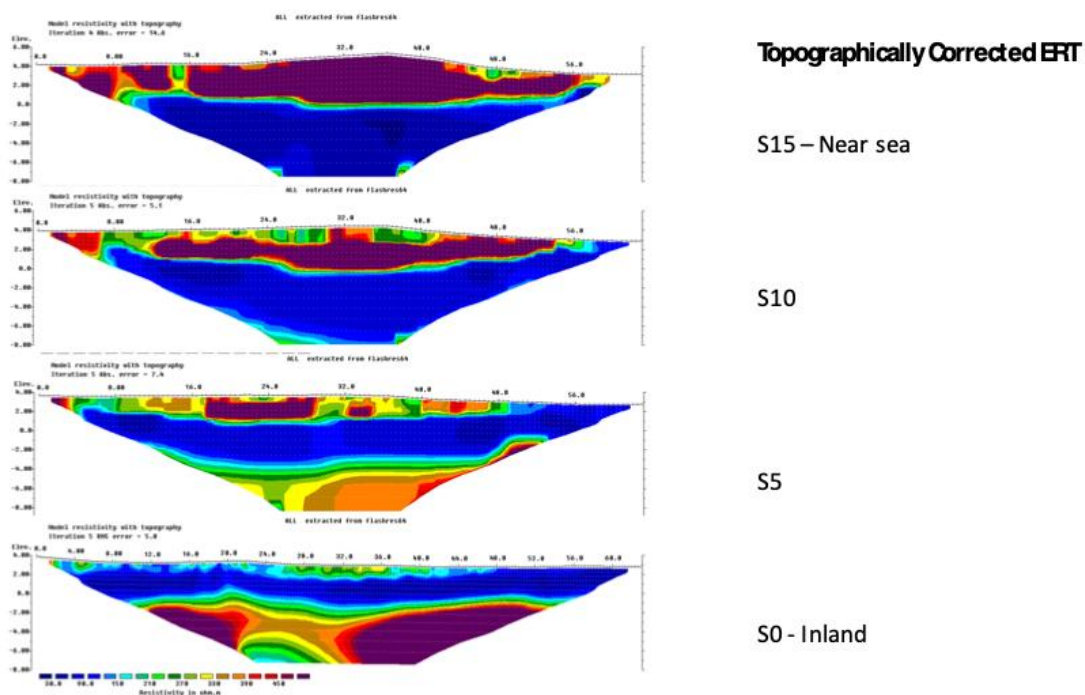


Figure 7: The ERT traverses of the Electrical Tomography survey showing the depth slices or profiles with the archaeology depth diminishing away from the sea and the presence of the water table. (Visualising Heritage, University of Bradford)

2.6 The Central Roundhouse

The central Iron Age roundhouse (Structure 8) is monumental in size, and is the main structure forming the Knowe of Swandro. The landward side survives as a visible earthwork or mound, but towards the coast the mound is less visible due to a combination of later buildup and coastal erosion. A good half of the building is on the seaward side of the erosion line; it has been reduced to a few courses of walling in places and is now under the boulder beach.

The building has a long use and shows signs of a number of significant modifications and rebuilding events. The structure was possibly only dismantled with the arrival of Viking age settlers. Radiocarbon dates suggest that this building was first constructed in the Early Iron Age, probably 2,800 – 2,400 years ago. If this is correct the Central Roundhouse survived as a standing structure for a thousand years.



Plate 7: The central Iron Age roundhouse

The excavation indicated that this large Central Roundhouse (Structure 8) is monumental both in size together with its focal position in the centre of the settlement. The roundhouse has an internal diameter (in its reduced rebuilt phase) of 12 metres and an estimated outer diameter of 17 metres. This parallels the proportions of many Orcadian broch sites such as the nearby broch of Midhowe. However the construction of this roundhouse, although monumental in proportion, does not provide any clear evidence of the architecture indicative of a broch. This may be due to the fact that the original roundhouse predates the broch form, and the structure was later modified to be more 'broch like'. In many ways this building probably functioned within the social system of the Iron Age in the same way as a broch despite the architectural differences.

The outer wall of this large roundhouse (Structure 8) overlies earlier material and it is possible that this may represent a thickening of the wall base of the original wall by the addition of a cladding wall. Material contained in the core infill between the outer wall forming the cladding on the seaward arc of the roundhouse and inner concentric wall face, returned an AMS radiocarbon date of 732–401 cal BC at 95.4% probability (SUERC-88535 (GU52307)). Material architecturally later than this outer cladding wall of the roundhouse and sealed by a later wall butting the roundhouse outer wall again returned an Early Iron Age AMS radiocarbon date of 760–430 cal BC at 95.4% probability (SUERC-88540 (GU52309)). A third date was obtained from the material clearly later than the construction of the roundhouse wall and contained by this later wall and thus stratigraphically above SUERC-88540; this returned a date of 788–541 cal BC at 95.4% probability (SUERC-88536 (GU52308)). This series of dates suggests the origin of this building may be in the Early Iron Age, with some evidence of underlying settlement going back into the

Late Bronze Age. These dates in part explain some of the unusual characteristics of this roundhouse. The evidence suggests that this building represents a monumental Early Iron Age roundhouse form, with evidence that the building continues in use into the 1st millennium AD.

The removal of much of the structural evidence by erosion on the seaward side limits further interpretation; there is no intention to excavate the landward part of the structure at present as it is not threatened by the sea. The diameter of the building and its central position, within a village-like settlement surrounding indicated by the geophysical survey, suggests that this building has a degree of monumentality and indicates a high-status settlement pre-dating the development of more complex forms of Atlantic roundhouses, which include fully-fledged brochs.

The southern area of the roundhouse under the boulder beach had been severely affected by the sea. Here much of the finer grained material forming the depositional sequence had been removed by tidal action. Survival was better on the landward side. However, in the central zone of the building a major collapse event was evident from the position of slumped or fallen structural stones which had originally been set upright ('orthostats'). The structure of this collapse was three-dimensionally recorded by photogrammetry and laser imaging. Several truncated hearths were identified and sampled for archaeomagnetic dating.

The northern circuit of the building provided a better insight into the archaeological complexity and potential of the site as it has not yet been exposed to the sea and the effects of tidal action. The interior of the later inner phase of the roundhouse (termed as Structure 6) dating to the later iron Age (or Pictish period) provided evidence for later rooms associated with the construction of a medial wall and passageway in alignment with the entrance passage. On the north eastern circumference of the roundhouse, an earlier room formed by upright stone orthostats (Structure 5) had been backed by the walling of this medial passage which bisected the centre of the roundhouse.

Structure 5 is a cell or room on the northern circumference of the Central Roundhouse, dating to the mid Iron Age. This room was defined by the roundhouse's inner wall face with the use of large upright orthostats to form the boundary on the internal side. The tops of these set upright stones seemed to have been carefully shaped to form a level. These might have supported an upper floor at this point on the circumference of the roundhouse, one which was not present in the Early Iron Age building but had been produced by these later modifications of the building. This room seems to have had a long usage and in the Later Iron Age the orthostats had in places been removed and replaced by walling or the orthostats had been backed by walling associated with the Structure 6 modification of the central corridor, leading from the entrance of the roundhouse into its interior.

At the end of 2019, a floor level was identified in Structure 5 and in 2022, when excavation resumed after the Covid pandemic, it formed the focus of definition and excavation, revealing several hearths and floor layers.

In 2023 the excavation saw the further definition of features and excavation of the floor to reveal the presence of an earlier floor level and a doorway into the cell from the central passageway, which had been blocked in the Later Iron Age re-configuration of the interior of the roundhouse. The doorway consisted of a threshold stone with an *in situ* pivot stone (a stone with a carved hollow into which the bottom post of a door could be inserted so that it could swing open and shut). The floors were fully sampled and the large hearth butting the interior circumference wall of the roundhouse was also sampled for archaeomagnetic dating. Excavation of this room is revealing a long and intriguing history of use; finds included Iron Age glass toggle beads and worked bone artefacts associated with textiles including long-handled weaving combs of

whalebone and antler, a spindle whorl and bone needles. Two fragments of Roman glass bottles provide a sense of both status and the trading connections with a much wider world. Soot staining can still be seen on some parts of the inner wall. There is also a suggestion that there may have been an upper floor or mezzanine to at least this part of the roundhouse. This room seems to have had walls partially covered with bright yellow clay, also found at Old Scatness in Shetland and at other contemporary sites, which would have made it a much brighter and more colourful space than we perhaps imagine when we think of the prehistoric period.



Plate 8: Excavating Structure 5



Plate 9: Structure 5 showing the orthostatic boundary forming the room, with a later floor surface to the right and an earlier floor surface to the left of the section line



Plate 10: Two Iron Age glass toggle beads from Structure 5



Plate 11: Decorated weaving comb made of antler with a 'fish tail' handle. The colour is due to partial burning

In 2023 the excavation saw the further definition of features and excavation of the floor to reveal the presence of an earlier floor level and the doorway into the cell, which had been blocked in the Later Iron Age re-configuration of the interior of the roundhouse (Plate 9).

At the end of its life, Structure 5 was infilled by a complex tipping sequence of rubble and midden infilling the shell of this building. These deposits included midden layers rich in animal bone (mammal, bird and fish) and burnt stone. Some of the animal bone was articulated, while others showed evidence of butchery with a large metal blade. The bird species included a number of bones from White Tailed Sea Eagles (Plate 12) and the now-extinct Great Auk.

This room (Structure 5) within the roundhouse seems to be contemporary with other activity dating to the first century AD at Swandro. The partly-eroded building Structure 1 is connected to the roundhouse by a passage and has also produced radiocarbon and archaeomagnetic dates for the first century AD. The 'smithy' (Structure 3) was also in use during the first century AD, indicating activity dating to this period across the settlement.



Plate 12: Skull of a White-Tailed Sea Eagle found in the structured midden infilling of Structure 5

After Structure 5 went out of use, the rest of the building including the central passage, was remodelled. The passage led to (now partially-eroded) occupation levels which included paving, hearths and an iron smelting furnace surrounded by fragments of glassy slag. This Late Iron Age or Pictish phase links to other areas of activity within the settlement such as the corn dryer and threshing floor in Structure 4 (below) and the phase sealing the stone tank in Structure 2.

In the western quadrant of the Central Roundhouse at the end of the 2022 season, the remains of the top of a fired structure thought to be a furnace was identified. This structure, which was made of brick-sized stones and clay, was excavated in 2023 and 2024 and archaeomagnetic samples together with samples of slag were taken. Preliminary X-Ray Fluorescence of the slag by Dr Gerry McDonnell confirmed the assumption that the furnace had been used for iron smelting. A complete handled bowl carved from steatite (soapstone), with evidence of heating on the side and bottom, was found in deposits associated with the furnace. No dated parallels for this vessel have yet been found; the nearest sources of steatite are in Shetland and artefacts of steatite of this size are unusual in the Iron Age. This furnace, together with the adjacent area, may be Late Iron Age or Pictish in date.



Plate 13: Alan Braby excavating the iron smelting furnace

In the north western quadrant of the Central Roundhouse, excavation of an inner room revealed a rectangular hearth and intact floors. On either side of the hearth were two whale vertebrae set into pits in the floor. These vertebrae had sockets worked into the bodies and seem to have acted as the bases for two uprights for a spit or bar above the fire, to support a suspended cauldron or other feature. Several unfinished handles made of antler were found on the hearth stones.



Plate 14: The inner room of the Central Roundhouse; the two whale vertebrae can be seen either side of the hearth

2.7 The surrounding settlement

2.7.1 The earliest evidence at Swandro

The erosion of the archaeology by the sea caused by tidal action revealed that some archaeological evidence survived in the area of the low tide. This survival provided a glimpse of some of the earliest archaeology at the site. Some of these archaeological deposits predated the outer wall of the Central Roundhouse, with layers clearly running under the facing stones of the outer wall. An early wall was found to butt up against the roundhouse wall and the early deposits were also sealed by the construction of this butting wall, giving a glimpse into the sequence of activities at this early date.



Plate 15: The Central Roundhouse at low tide. The outer face of the roundhouse wall curves across the upper part of the photograph, with the butting wall to the right. The earliest deposits can be seen under both these walls. The red and white scale is placed over an area where all the earliest deposits have been scoured out by the action of the sea and replaced by large boulders

The first building excavated at Swandro was not the large Central Roundhouse but a much smaller building, Structure 1, which lay quite far down the beach towards the sea and which had been truncated by the severity of the erosion in this area. There were also earlier midden and structural material below this fragment of a house. The severe erosion meant it was necessary to sample the earlier material, which included an earlier building, a clay floor and material overlying an even earlier sequence of midden material; an early dump of domestic rubbish (Plate 16).



Plate 16: Structure 1 (top) showing truncated floor, hearth and oven with the underlying stratigraphic sequence showing an earlier building belonging to the Early Iron Age

The deposits were excavated stratigraphically and fully sampled for environmental remains and for dating material. The sequence produced Early Iron Age pottery containing temper-rich rim sherds with a flat splayed rim form, and a perforated seal tooth interpreted as a pendant (Plate 17). The pottery can be paralleled by a number of examples found in contexts associated with the Early Iron Age roundhouse at Tofts Ness, Sanday.



Plate 17: The perforated seal tooth pendant from the Early Iron Age deposits below Structure 1



Plate 18: Pottery from the Early Iron Age deposits



Plate 19: Alan Braby drawing the section through the Early Iron Age deposits; a combination of high tide and the water table made for damp conditions

2.7.2 Structure 1: a truncated Mid Iron Age roundhouse

Structure 1 itself, which overlies the early features, is represented by just one segment of its circumferential cells, the interior and southern portion of the building having been lost to the sea. The circumference of the building is represented by set upright stone flags (orthostats). The inner kerb of a paved cell was formed by a single long orthostat. The floor of this cell was formed by a single flagstone, which was dressed to fit the cell. Several notches had been cut into the flagstone which are thought to be for post settings. It seems likely that, if this assumption is correct, these posts would have supported a mezzanine level; a kind of upper floor around the circumference of the structure.



Plate 20: The paved floor of the cell in Structure 1 and the two post settings, recorded in 2015

To the west of this cell is a stone oven which is closely paralleled by a more complete example excavated by the authors at the Iron Age settlement of Old Scatness in Shetland (Dockrill *et al.* 2015). It was constructed against the inside wall of Structure 1 and was made by the construction of a stone box of upright stone flags forming the sides of the oven (Plate 21). A dry-stone wall formed the sides of the oven structure to provide a chamber. Adjacent to this oven feature was a substantial hearth. It seems likely that hot ash created on the hearth was placed into the chamber. This would have heated the missing oven chamber that would have been located above the surviving features.

A series of truncated floor and hearth deposits were recorded in the central area of this building. Much of the central zone had been truncated by the sea, leaving fragmentary remains of the floor sequence. A layer of yellow clay formed a distinctive floor surface. A flagstone appears to have been associated with this floor though as a later addition. This all overlaid the remains of flagging and an orange-brown clay and a red clay that had been modified by heating. This appeared to be the clay base for a hearth and was sampled in 2019 for archaeomagnetic dating.



Plate 21: The oven and hearth are visible on the left, the entrance and passage beyond are marked by the horizontal red and white scales

The area to the north of Structure 1 revealed a flag floor and threshold stone leading into the building. This linked Structure 1 to the main building via a passage leading to the Central Roundhouse.



Plate 22: The doorway represented by a second threshold stone indicating a second door

2.7.3 Structure 2

Another small building, listed as Structure 2, was also found eroding onto the beach. Excavation showed it to be a small roundhouse which was in use, rebuilt and modified over several centuries. It is possible, from the evidence of the fragmentary remains, that it was constructed within the walls of a much larger building. Under a later flagged floor was a large stone tank made of dressed flagstones. A decorated copper alloy pin known as a 'proto hand pin' of the second or third century AD was found in this building (Plate 25) as well as a coin (*nummus*) of the Roman emperor Constans dating to 348-350 AD, which was found beneath the flags, showing that this building was still in use in the fourth century AD or later.



Plate 23: Structure 2 under excavation



Plate 24: The stone tank in Structure 2



Plate 25: The copper alloy proto hand pin from Structure 2 (photographs by Dr Sonia O'Connor)

2.7.4 Structure 3: The Iron Age Smithy

Structure 3 was a small semi-subterranean building entered by a set of steps in a narrow passageway, leading down from ground level to a doorway and into a space with a central hearth. In the 2017 season, excavation of the fills of this building revealed its upper floor surface,

which was carefully recorded and sampled to help determine usage. The central hearth had originally been furnished with a back slab (a set upright stone to protect the hearth from draughts from the doorway) which had been broken before the building was infilled with rubble. The doorway had a threshold stone and door pivot; a stone with a cup hollowed out of the centre to take a projection at the bottom of the door so it can swing open and shut. The floor surface was examined by recording magnetic susceptibility across the area; higher values were observed adjacent to the hearth and entrance. Magnetic susceptibility is a measure of the magnetic properties of soil and other deposits, which can be affected by e.g. small particles of iron in the soil, so higher values might indicate areas where ironworking activity took place. Excavation of the central zone revealed a distinct ash-rich deposit. Further excavation revealed that this was a hearth deposit sealing a heat-cracked hearthstone. The ash surrounding this hearthstone was subdivided for sampling to provide even greater spatial understanding of activity in the building, the samples being 3-dimensionally recorded. The hearthstone sealed another ash-rich layer, which in turn sealed the remains of an earlier hearthstone.



Plate 26: Structure 3 (facing north); the two anvil stones are located between the central hearth and the cupboard on the left

The building has yielded a significant assemblage of metalworking debris suggesting both iron and copper working, with spheroidal slag and hammerscale suggestive of sophisticated blacksmithing processes including fire welding. The presence of a significant number of crucible fragments strongly pointed to the structure having been used for copper alloy working. Subsequent analysis of the crucible fragments by Dr Gerry McDonnell using X-Ray Fluorescence (XRF) indicated that the crucibles were used to cast an alloy with a high zinc composition, forming a brass rather than a bronze.

In the summer of 2018, Dr McDonnell supervised the further excavation and sampling of the floor of this building. The floor was carbon-rich and the hearth showed two phases of use. In between

the upper hearth fragment and the lower primary hearth, a further fragment of crucible was found. Two *in situ* stone anvils were found between the hearth and the cupboard (aumbry) set in the wall (visible in Plate 26).

The ash floor sequence was excavated spatially to allow a better understanding of where activities took place within the building. The floor behind the hearth and the two anvils was formed of further layers of ash material which were examined in detail.

The 2018 excavation revealed further evidence of metalworking, with crucible fragments and the remains of several fragments of fired clay from a tuyère, which would have protected the snout of the bellows from the heat. Magnetic susceptibility and XRF survey (Plate 27) of the floor, together with the *in situ* remains of the furnishings of the building, have provided a unique understanding of the use of space within this structure and confirmed its identification as a smithy for the working of copper and iron.



Plate 27: XRF Analysis of the lower floor levels of Structure 3 with a scan (upper right) of the stairs and entrance and a plan of the building

The building was clearly semi-subterranean in nature, with a shallow set of steps leading into a passage flanked on the left-hand side by the curving wall of the structure and by a large orthostatic slab on the opposing side. A door would have opened into the structure, the doorway being defined by an *in situ* threshold stone and door pivot (visible to the right in Plate 27). Anyone entering the building would have to turn to the left (clockwise) because of the hearth and the back-slab protecting it from drafts (which were situated immediately in front of the entrance) and to avoid the anvils on the right. The strongest signatures of copper working determined by Dr McDonnell's detailed XRF analysis of the floor surface indicated the working position of the smith would have been behind the stone cobble anvils on the right as one entered from the door, on the left-hand side of hearth, facing the doorway and hearth back-slab and with the aumbry to their left (see Plate 27; Dr McDonnell is kneeling in the hearth facing the door, with the anvils and aumbry to his left).

The cobble anvils, one an elongated block and the other smaller and squarer in shape, had clear percussion damage on their upper surfaces, indicating their use as anvils. Beach cobbles are naturally stronger than quarried and dressed stone, and for this reason are also often found as

threshold and lintel stones at sites such as Old Scatness in Shetland and (as threshold stones) at Swandro itself. This natural strength would be necessary in an anvil. Whilst preparing to illustrate the larger cobble, archaeological illustrator Mr Alan Braby noted carbon staining appearing to represent the finger or hand marks of the smith, on the edge closest to where they would have been working (Plate 28). Dr McDonnell's survey of the floor and the presence of the tuyère fragments suggest the bellows (and presumably whoever worked them) were located on the opposite side of the hearth to the anvils. A cupboard or aumbry constructed within the wall of building would have been to the left of the smith and may have been used either for storage or as the location of a lamp. The layout and sophisticated design of the building strongly suggests that this was a purpose-built smithy. The hearth furnishings seem to have been constructed as part of the building's primary usage. The semi-subterranean nature of the building and the location of the doorway formed an effective means of reducing natural light. Added to this, the doorway presented clear evidence of two means of barring the door, one from the inside, further reducing any light incursion; the observation of flame colour by the smith would have been critical to enable them to gauge metal temperature while working. It is worth noting that a second bar hole was present, indicating that the door could also be secured from the outside.

Dating of this smithy by a sequence of radiocarbon samples gave a period of use in the C1st BC-C1st AD. There is little evidence of such metalworking structures in the Northern Isles, the closest parallel being from Mine Howe, where a less well-preserved fragment of a similar structure was found. The date explains the zinc content of the copper alloy, which Dr McDonnell thinks is due to the addition of scrap Roman metal to the mix; the addition of zinc to copper alloys to make brass occurs in Europe in the late C1st BC and it is commonly thought that the main source of this alloy was the Roman Empire.



Plate 28: The anvil with carbon staining (SF4018)



Plate 29: Closeup of one of the sets of hand prints

2.7.5 The ditch around the settlement site

The metalworking building (Structure 3) had been constructed within two earlier parallel single faced stone walls that had in previous years suggested the presence of an earlier building. Further investigation in 2018 suggested that this earlier stonework might actually represent the stone revetments of a ditch (Plate 30). The fill of this suspected ditch was investigated. Below the ash and carbon-rich floors of the Iron Age smithy, the infill of the 'ditch' comprised of layers with a high stone content. The deposit underlying these stony layers was recognisably different and had been compromised by the tidal action of the sea, forcing its way under and through the archaeological layers. This material consisted of vacuous rubble with lenses of beach sand. A small fragment of plastic was found within this material, although surprisingly the archaeological layers of floor above this fill were intact and undamaged. The pressure of the sea from tidal and storm surges appears to have horizontally penetrated the archaeology below Structure 3, removing finer archaeological sediments and depositing the plastic. This erosive action has affected the walling of Structure 3 on the seaward side and seems to be responsible for the subsidence of the wall into the top of the suggested infilled ditch (Plate 30).



Plate 30: The southern face of the ditch revetment wall, which runs under Structure 3

In 2012 and 2013, excavation of the eroded deposits along the beach revealed two stone walls with a distinct rubble infill, which appeared to be a continuation of the feature (the revetment and fill) found under the floor of the Iron Age smithy, Structure 3. The unusual nature of the 'wall' seen in this trench suggested it might actually be one side of a ditch revetment.

Following geophysics work in 2022 which seemed to suggest there may originally have been a ditch around the whole Iron Age settlement, this eroded section was re-examined in 2023 in order to test the hypothesis of this being a stone-revetted ditch with a rubble infill. Excavation revealed that this was indeed a ditch with several phases of construction, including the relining of the ditch with a drystone revetment forming a clear secondary phase of use. This evidence indicates that the Early Iron Age settlement at Swandro was enclosed by a defensive ditch. The revetment lining on the south-east appears to have slipped in antiquity and was buttressed by a relining, represented by a much coarser build. Part of the early ditch fill was a silty clay rich in animal bone, presumably waste from the settlement which was tipped into the ditch. The form of the dry-stone revetment of the ditch at Swandro is very similar to that surviving at Midhowe Broch, just along the coast from Swandro.

Animal bone within the infill will provide dating material but it is clear the ditch went out of use, being infilled by the early first century AD or even possibly earlier, as Structure 3 was then built within the infill. The significance of these results is that the multiple phases of use and reconstruction suggest a long use but Structure 3, which dates to C1st BC-C1st AD, is built directly into the top, marking a definite end to the ditch as a working defensive feature. It will be interesting to see what dates we can obtain from this ditch and what it tells us about its relation to the monumental roundhouse and the development of the settlement.



Plate 31: The section of ditch excavated on the eroding beach. The revetted stone lining is visible on either side of the rubble and earth infill

2.7.6 A Pictish Building (Structure 4)

Structure 4 appears to be a Late Iron Age agricultural building, stratigraphically post-dating Structure 1. The building was characterised by a stone-flagged floor and a hearth constructed within the northern wall (Plate 32). This floor seems to be of two phases with evidence to the east that the floor had a secondary layer of flags overlaying part of the original surface. The nature of the flagging in a building also containing a small wall hearth interpreted as a corn dryer was suggestive of use as threshing or processing floor. Archaeomagnetic dating samples and samples of carbon-rich ash were taken from the bowl of the hearth. This building clearly appeared to be a secondary construction post-dating the outer passage leading into the large Central Roundhouse and to Structure 1.

The presence of the wall oven and flagged floor leads to an interpretation as a corn drying kiln with the floor forming a threshing floor. A strong parallel to this structure was found at Old Scatness, dating to the early centuries AD (Dockrill 2015, 140-1).



Plate 32: Structure 4 showing the paved surface. The hearth bowl associated with the corn drier is marked by the horizontal 0.5m black and white scale (top left)

An adjacent area to the north-east (inland) of Structure 4 was investigated and remains of midden material were excavated. This midden included deposits of winkle shell not seen elsewhere within the Iron Age deposits at the site. A decorated spindle whorl made from the femoral head sawn from a cattle femur and part of a decorated bone needle case were recovered from this midden. This midden and its characteristics suggest a Late Pictish or Viking date. The midden sealed the rubble infilling another earlier Iron Age building, Structure 7 (Plate 33).

This building (Structure 7) as with other structural elements within this north-eastern section of the site, displayed evidence of structure within the collapse or demolition rubble. The rubble infill contained visible structural integrity suggestive of an anthropogenic origin, indicating that this was more likely to represent a demolition event having taken place in a short period of time rather than natural decay associated with prolonged abandonment processes involving natural agencies. The walls containing this rubble infill had construction details strongly suggesting that they were corbelled and that the surviving building was potentially of some height (Plate 34). The excavation of Structure 7 was discontinued at this stage in 2019 due to both time and safety concerns.



Plate 33: Late midden overlying the rubble infill and top of the walling in Structure 7



Plate 34: Structure 7: the rubble infill of the building displaying a high degree of structure and an indication of the corbelling of the internal wall face

2.8 The end of the Iron Age settlement

The rubble in the Central Roundhouse proved to be structured, which suggested a major structural collapse in the Late Iron Age, probably representing a single event marking the end of the main Roundhouse use. This seemed to be a major destruction event during which whole walls had collapsed. Careful recording indicated that this event was one that took place over a short period of time and appeared to represent anthropogenic demolition rather than natural collapse over a longer period of time from abandonment.

Excavation in 2019 and 2022 revealed evidence of an ordered collapse; cracked orthostats and whole sections of drystone walling which had fallen or been pushed back against the north-eastern landward wall of the passage. These layers of collapse had provided a degree of protection for the landward side of the passage. Much of the south-western and western wall elements of the central passage, leading into the centre of the Roundhouse and the radial rooms beyond, did not survive due to the dismantling event and more recent erosion on the seaward side.

The collapse that was not affected by the sea showed blocks of stones still in their alignments as if whole sections of demolished roofing and walls had fallen still in their relative positions. In places complete walls appeared to have been pulled or pushed over, with clear signs of the coursing still visible. A number of the set upright stones (orthostats) were either dislodged or broken and followed the same angle of collapse as the walling.

The entrance passage to the roundhouse located on the upper beach terrace was also infilled by rubble. The infill displayed a similar structure to other demolition areas. The upper infill of the entrance passage contained some midden material, seen overlying the structural collapse within the Roundhouse. Within the entrance passage, a copper alloy coin, a styca of Eanred of Northumbria (a ninth-century king) was found with animal bone. The animal bone included two semi-articulated skeletons of domestic cats which show cut marks possibly indicative of skinning. This evidence together with other artefacts including a decorated bone needle case and a cattle femur head spindle whorl, supports the possibility that the infill might be associated with Viking re-organisation of the settlement prior to the later construction of the surviving Norse longhouses located to the south east of the Roundhouse.

2.9 The Viking period

Archaeological work in 2023 also included a detailed survey of the Norse longhouse which overlays part of the Swandro site, often known as the 'Westness' longhouse. The survey included the recording of exposed stonework and earthworks as both contour and hachure surveys along with new aerial photographs and digital recording. The site was originally investigated by Walter Grant in the 1940's and later by Sigrid Kaland in the 1970's but unfortunately neither of these excavations has been published. Work at Swandro over many seasons has made it clear that the Norse structures are actually the last phase of the Swandro settlement and so a plan was essential to tie this structure into the wider archaeological context.



Plate 35: The passageway of the Central Roundhouse with infill containing the Eanred coin

The Norse longhouse runs in a south-western – north-eastern orientation, sloping gently to the north-east. The building has a strong resemblance to Jarlshof House 1 and as with that structure, the exposed walling suggests that this longhouse was not a single-phase building but was modified over time and may well be earlier than usually suggested. The structure seems to terminate just before a drystone wall belonging to the nineteenth century enclosure of the fields of Westness and a more recent ditch which separates the house from the wall. The nineteenth century enclosure wall has a distinct hump where it is built over a slight rise in topography, in line with the end of the longhouse. This rise in the wall coincides with a slight mound and a distinct vegetational change in the field beyond. The area on both sides of the drystone wall is extremely wet and bog-like, apart from this slight mound. This higher and dryer area is in alignment with the centre of the longhouse and was targeted for excavation in 2023 after the farmers, Russell and Kathryn Marwick, kindly allowed us to open a limited area in their field to allow investigation of the nature of the underlying sequence and any archaeological survival that might be associated with the longhouse.



Plate 36: Aerial view of the Westness/Swandro longhouse

A trench was excavated in the field behind the Swandro settlement and in line with the longhouse, outside the scheduled area. This revealed a paved surface and some midden material. Although no secure finds of datable artefacts were found stratigraphically associated with the paving, a fragment of characteristically Norse steatite vessel was recovered from the layer above it and animal bone from associated contexts should produce radiocarbon dates. Tying in these Viking/Norse features to the Swandro sequence will help us understand the full history of this settlement and possibly also the reason for its final abandonment.



Plate 37: The paving associated with the longhouse

3. Structural Summary of the 2024 Excavation at the Knowe of Swandro

Stephen J. Dockrill and Julie M. Bond

3.1 Introduction

Excavation in 2024 concentrated on excavating the interior of the roundhouse. The following structural summary is divided into zones of activity within the building. Major contexts discussed within the text are indicated in white on the photogrammetric plans below.

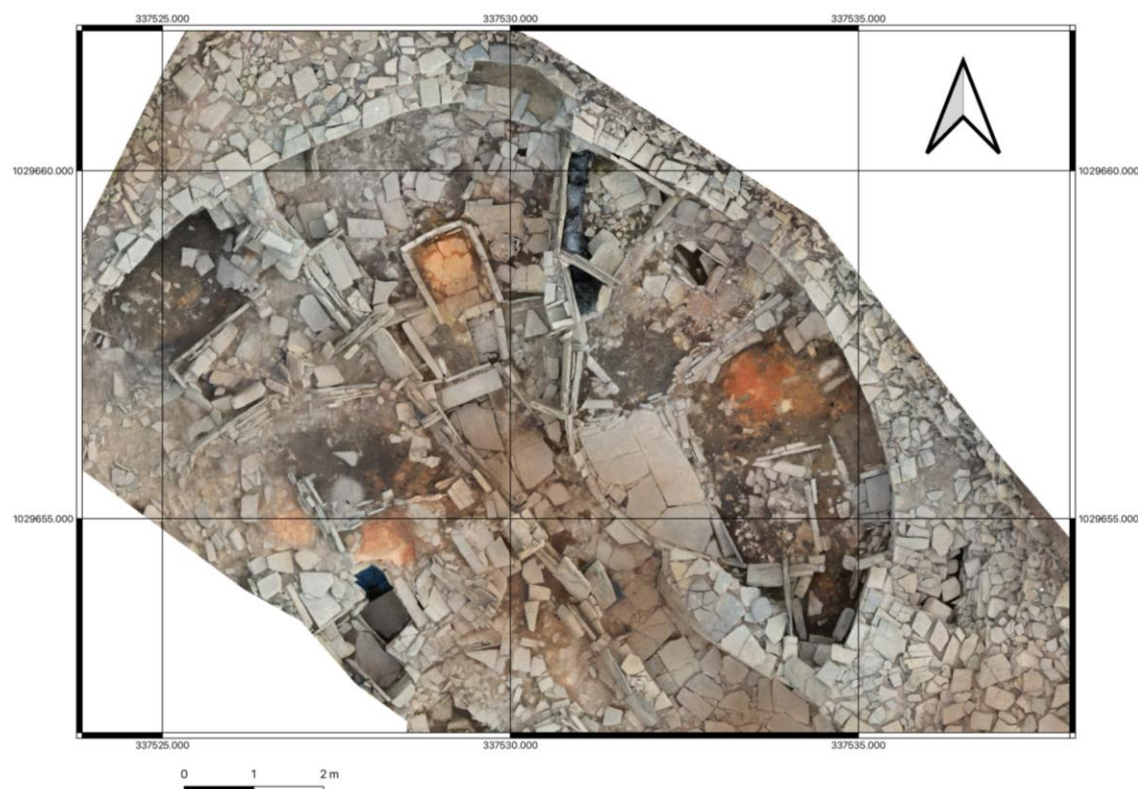


Plate 38: Photogrammetric plan in relation to the National Grid, showing the central area of the roundhouse excavated in 2024

3.2 Structure 5

3.2.1 The stratigraphic sequence

Structure 5 represents the eastern room of the central roundhouse, formed by the internal roundhouse wall face [1042] and wall element [3458], forming a wall separating this room from the central corridor. An entrance to the room from the corridor is formed by the sill or threshold stone [4099] and pivot stone [4132]. This door would have opened into the room from the corridor. To the north of this entrance, the room is defined by a line of orthostats including [1037]. Work in 2024 saw the removal of a partially flagged surface [4090] recorded in 2023 together with a dark soil deposit [4101] and a wall element suggestive of a stub of pier [4036]. Removal of these elements revealed an inner cell formed by orthostat packing [4134]. This contained an area of intensive burning [4094] which butted the roundhouse inner wall [1042]. Context [4094] was formed of a distinctive intense red ash with little or no sign of charcoal or carbon flecking. This hearth appeared to have had a complex history with several phases of use and rebuilding. When

excavated, context [4094] was found to seal a dark rich carbon layer [4113]; this in turn sealed a heat-shattered hearth stone recorded as [4133] and [4174]. This hearth stone sealed an orange clay bedding [4175] which in turn sealed an orange heat-affected ash [4172]. Below this ash spread, a hearth stone [4274] and a mixed layer of ash and yellow clay [4282] provided evidence of an earlier hearth structure to this feature. The hearth stone [4274] and surrounding bedding material [4282] sealed a distinct orange clay [4286] forming the bedding interpreted as being the bedding for the hearth. Adjacent to [4286] was a spread of light yellow and orange clay [4310]. This spread was sealed by [4282]. South east of this hearth feature and constructed against the inner roundhouse wall [1042] was a series of small orthostats suggesting the presence of an ash box. This box was formed by orthostats [4306] to the north, [4307] to the west and [4305] to the south. The box contained an infill consisting of [4283], a layer of ash with carbon flecks. This layer appears to seal a large flag [4308]. To the east of this feature, a layer of mottled orange and yellow clay containing small angular rubble butted the alcove formed by orthostats [3587], [1035] and wall lining [3928].



Plate 39: Interior of the Eastern room (Structure 5) in 2024 showing the hearth complex in relation to the paved surface and entrance (to the left)



Plate 40: One of the Structure 5 hearth stones ([4174]), with the inner wall of central roundhouse visible at the top of the photograph

Within this alcove created between walls [3191] and [3458], excavation continued in 2024. Context [4092], revealed in 2023, was excavated and revealed a layer of loose shillet and angular rubble [4176]. This mixed infill sealed [4181], a grey brown silty clay with carbon flecking. Context [4181] in turn sealed a layer of burnt clay with carbon inclusions. This appears to represent an *in situ* area of burning, perhaps indicative of an oven-like feature (Plate 41). The alcove feature was originally partly corbelled with a stone capstone.



Plate 41: The burnt bottom of the cell like alcove

The northern half of structure 5 was covered by a sequence of ash floors. This sequence had been subject to excavation and intensive sampling in previous seasons. This area was further investigated in 2024 with a grey ash floor sealing a silty clay context [4258]. This context in turn sealed a grey ash with carbon mottling, [4279].

Excavation in 2024 concentrated on what appeared as an upper surface of the corridor leading in from the southern entrance. This surface appeared to represent an uneven level formed by a horizontal stone [4109] which originally had been an orthostat forming the western boundary of the corridor. The stub of the set orthostat remained *in situ* and there was a clear fit between the broken edge of the horizontal stone and the remaining stub of the orthostat. This stone, together with [4110], a series of stones laid on edge which butted [4109] to the north and another broken orthostat [4110], had been identified in 2023 and were thought to form a later surface to the passage providing access to late floor levels in the Eastern room, Structure 5. The removal of these later elements revealed a layer of brown loam and shillet [4253]. This in turn sealed a compacted layer with charcoal flecking [4268], at the end of the passage. This in turn sealed a flagged surface [4293]. To the north of [4293] and at the same level, a long flag was set horizontally across the passage [4269]. Adjacent to this stone was a sill stone [4187] indicating a doorway threshold leading into the inner room to the north.

The presence of a set whalebone pivot SF8314 indicated a second doorway threshold to the southern elements of the roundhouse. This corridor also provided access at this level to the eastern room Structure 5, indicated by the sill stone [4099] and pivot stone [4132], indicating a doorway into Structure 5.

A layer of loose soil with angular rubble [4206] sealed a large flagstone [4270]. This large flagstone indicated a second doorway to the western range of rooms (seaward side) of the roundhouse.



Plate 44: The corridor, in centre of photograph with passage from the entrance on left (seaward side) and Structure 5 on right. North is to the top of the photograph. Broken orthostat [4109], indicated by the horizontal black and white scale, forms part of a secondary surface in the corridor at this phase

3.4 The North Room

In 2023 this room was defined by the inner roundhouse wall [3722] and an orthostatic division comprised of [3717] and wall element [3902]. The western boundary of the room was formed by [3865], [3863], an entrance to a western room which contained the furnace was formed by sill stone [3975] and steps [4019], which led down into the north room. The steps were flanked on the north by orthostat [3972] and to the south by [3976]. Excavation of the north room continued in 2024 investigating the floor and hearth previously examined in 2023. Work also concentrated on defining the extent of the building southwards. The remnants of a rubble collapse [3980] obscured the relationship between the corridor and the north room. Excavation of [3980] together with a layer of shillet and rubble [3944] revealed a layer of silty loam and shillet [4253] which sealed the doorway represented by the sill stone [4187] and the associated cross flag [4261]. This provided access to the central corridor and the southern Roundhouse entrance.



Plate 45: Plan of the North Room with main contexts labelled. The hearth is in the centre of the room with the entrance and steps ([4028], [4010], [4070]) bottom centre and the entrance from the corridor centre right. Part of Structure 5 can be seen at the top of the photograph beyond the orthostatic division ([3717], [1038]) and the inner wall of the roundhouse left and top, with the alcove built into it

The central hearth identified in 2023 was formed by three orthostats; [4071] on the north, [4072] on the east and [4073] on the west. The excavation of the hearth stone [4074] was found to seal a distinctive layer of red ash [4171] and black ash [4172]. This sealed a heat-fractured hearth stone [4195] which in turn sealed a layer of orange ash [4196] covering what appeared to be a primary hearth stone setting [4284]. The southern end of the hearth was not visible in 2023; however with the excavation of these earlier uses of the hearth a cracked kerbstone [4182] was found in 2024 and could be seen to form the southern edge of the hearth. This hearth may overlie an earlier feature formed by orthostatic kerbs [4184] and [4185]. The area between these two kerbs contained a dark, compact fill [4179]. Unfortunately this area was in part bioturbated with the presence of a rats nest. This feature is problematic; at first it looked like a hearth but the flanking

orthostats lead into the room from the door sill [4187] and may form some other low internal feature. Investigation of this feature will continue in 2025.

Beyond the hearth, the floor surface [4067] revealed in 2023 was excavated. This sealed a flagged surface [4193] and a black carbon-rich silty clay [4192]. This layer [4192] sealed [4320], a grey ash layer with small flagstones. Within the flagging [4193] was a small orthostatic setting [4319]. This setting appears to predate the flagging [4193] as it is butted by those flags. A spread of yellow clay [4318] butted the hearth kerb [4107]; this may represent packing for the construction of the hearth setting.

The eastern whalebone post socket [4314] was excavated in 2024. This was badly charred and fragmented when discovered in 2023 and it was thought it would not survive another winter in the ground. Excavation revealed the whalebone socket [4314] (recorded as small find SF8404) was originally a whalebone vessel, placed upside down with a hole drilled through its base to form the socket. This repurposed whalebone socket [4314] was packed by a halo of small stones [4315].

East of [4184] a small cell had been formed by orthostats [4184], [1038] and [4188]. This contained a rough stone surface [4186]. The steps leading into the North room from the north west room (Furnace room) were formed by [4070], [4019] and [4020] with a sill or threshold stone [3862] represented the position of the doorway separating the North room and steps from the north west room. Between the lower step [4070] and the western hearth kerb [4073] was the cut [4316] for the whalebone vertebra [4134] which formed the matching socket to [4314], removed in 2023.

3.5 North west room (Furnace room)

The north west room of the roundhouse is bounded on the north by the circuit of the inner roundhouse wall [3722] and on the east by wall [3863] and orthostat [3978]. An entrance linked this room to the north room, indicated by the threshold/sill stone [3862]. The western part of the room has been totally destroyed by the sea. Work in 2024 involved the complete removal of the furnace (recorded in 2023). This was done under the supervision of archaeometallurgist Dr Gerry McDonnell. The base of the furnace [4059] consisted of a series of tightly packed stones infilled with a carbon-rich silty material in between the stones, [4059]. The furnace sealed a stone alignment, possibly representing a wall, [4137]. To the south, a large, set, tabular stone [4229], was sealed by flagstone [4136]. This stone clearly pre-dates the furnace. Examination of its top surface indicated pecking and wear characteristic of use as an anvil. This stone was recorded as small find SF7929. Adjacent to this anvil a series of upright settings [4129] suggested the presence of an earlier orthostatic setting. This setting may be associated with another orthostatic setting [4203], to the west. An orthostat (identified at the end of the season and at present unnumbered) was butted by the wall-like feature [4137]. Between the roundhouse inner wall [3722] and this feature, was a dark grey sooty ash layer with carbon flecking [4278]. This deposit was sealed by a friable brown silt with orange mottles [4240]. This deposit in turn was sealed by flagstones [4123]. To the west of [4278] and [4059], was found a compact layer of grey silt, ash and shillet [4285]. This had been sealed by flagstones [4214], on the seaward side of the furnace. To the south of orthostat settings [4203] and [4129], an area of burning was investigated. A layer of dark ash and light yellow clay mottles [4302] was sealed by [4218], a dark grey matrix with carbon flecking. This in turn was sealed by a layer of paving [4202]. This paving [4202] also sealed the orthostat setting [4203]. Within the matrix of [4302], a discrete area of differential drying [4304] was seen at the end of the excavation season. To the east of this, an area of orange ash [3798] overlaid the capping of the corbelled chamber.

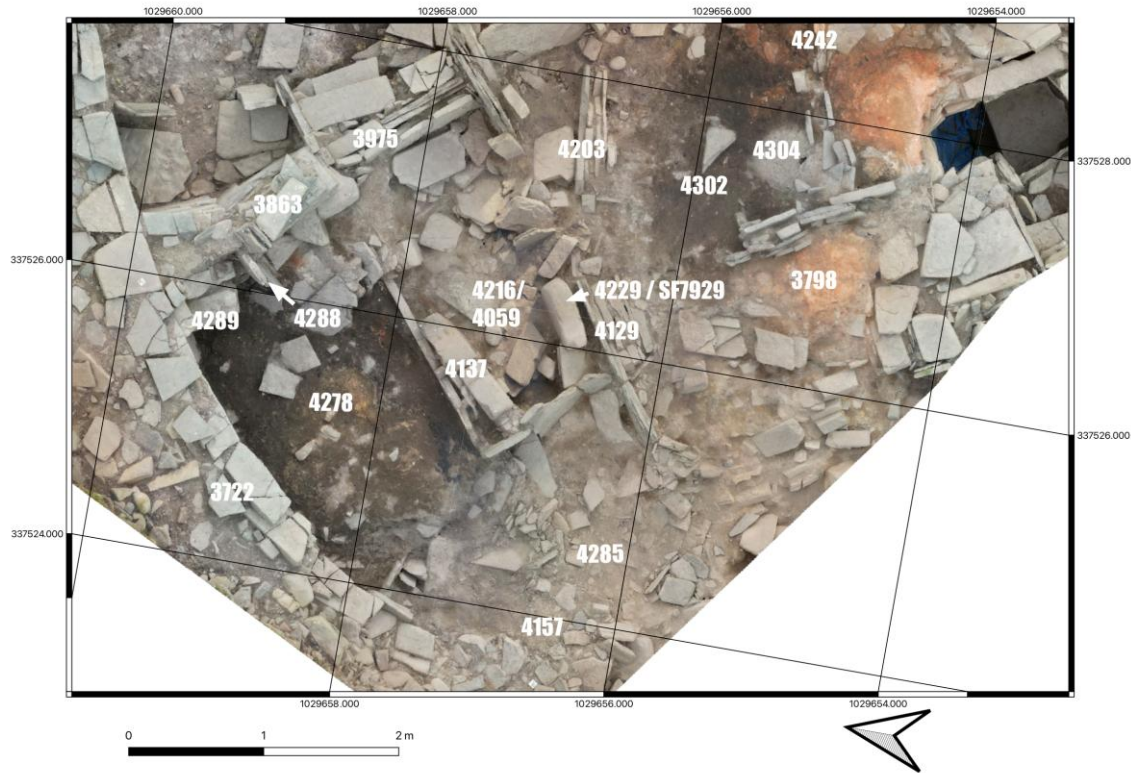


Plate 46: Plan showing the surviving area of north western room ('Furnace room')

3.6 The eroding western edge of the roundhouse

The western edge of the roundhouse deposits and walls have been severely eroded by the sea. In places this truncation provided a low cliff-like edge. In 2024, excavation investigated either side of the inner wall face, [1100]. Context [1100] represents the inner wall face of a late modified build of the roundhouse. This wall has mostly been removed by the sea. Investigation of this truncated section in 2024 clearly demonstrated that context [1100] overlaid a complex earlier sequence of structural features.

To the north of [1100] and west of the orthostatic edge of the paving [3591], a truncated surface [4239] survived together with two hearth-like features. The southernmost of these structures, [4294], appeared to be an ash box formed by small orthostats and a stone base. The western edge of this feature had been removed by the sea. To the north of this feature a layer of heat-shattered stone indicated the presence of a hearth base [3946] which sealed another fragmented stone hearth base [4249] which appears to represent part of what had been a large horseshoe-shaped hearth. This sealed an ash-rich deposit with orange mottles, [4251]. Below [4249] and [4251], an earlier hearth stone [4252]. Sealed below [4252] was a layer of loose rubble and shillet [4266].

West of the hearth and ash box, the archaeological sequence had been badly disturbed by the sea with clear evidence of the removal of anthropogenic deposits and replacement by washed-in sand and seaweed. Investigation in 2024 examined the surviving evidence, comprised of the following contexts; context [4209], a series of rounded stones which butts wall [1136] and is butted by [4291], a brown silty clay with charcoal. Context [1136] represents an earlier arc of faced wall. The infill of [1136] was formed by large stones [4298]. A layer of medium and large stones and shillet [4277] was sealed by rubble [3968]. To the south of [1136], rubble [3969] probably represents wall core, however this had suffered some disturbance by the sea. A series

of stones [4046] forming a possible alignment, may represent a wall face but disturbance by the sea makes it difficult to determine.



Plate 47: Plan of the eroding south west quadrant of the roundhouse, showing the eroding section and the contexts discussed



Plate 48: The eroding section facing east (landwards) showing the truncated inner roundhouse wall [1100] (centre right, over tabular orthostats) and the lintel/stair tread [1132] supported by a sandbag

A long, large flag [1132] which was broken on its eastern side, originally appeared to form a lintel. Due to the way it is positioned with each end being supported by two parallel sets of stones, this appeared to be a structural feature. This possible lintel is suggestive of the remains of a lower

stair tread which may have led to a gallery within the earlier, substantial roundhouse wall. This interpretation is based on the fact that the lintel is supported on the two faces but earlier investigations produced no evidence of a passage or door beneath [1132].

3.7 Discussion of the 2024 excavation season

3.7.1 *The eroding seaward edge of the site*

The investigation of the eroded edge of the archaeology was undertaken to examine deposits and structural elements that pre-dated the last major reconstruction of the roundhouse, represented by the inner wall faces [1100], [1042], and [3722]. These wall faces contain the deposits discussed above in the Corridor, North West Room, North Room and the East Room (historically identified as Structure 25).

The eroded seaward area was taken back to form a straight section and this allowed the excavation of elements that had so far survived the destruction of the sea. The inner wall face [1100] had been partly removed by the sea and at this point the wall survived as two courses and was seen to overlie what appeared to be a mixture of structural elements; rubble and midden material. Much of this midden material had been removed by the tidal action of the sea. Structural elements such as [1136] relate to earlier phases of the roundhouse. Unfortunately, little was recovered in terms of animal bone and artefacts due to the action of the sea. However, in context [4247] SF 8173 a rim sherd of pottery with a flat and slightly splayed rim, with a grey buff surface with evidence of wiping, smoothing of the clay on the inner surface, was recovered. The internal core was almost black in colour and contained 30-40% of angular grit between 1 and 4mm. This particular sherd is significant as the flat splayed rim form and the presence of angular stone inclusions is different from ceramic forms recovered from the surfaces of the rooms in the later roundhouse and parallels Early Iron Age pottery from early deposits identified in other parts of the site. These early sherds parallel those from other Early Iron Age sites such as Tofts Ness, Mound 11, phase 6 (structure 5) on Sanday. It is difficult to determine if [4247] is a primary *in situ* deposit or if it represents material brought in as make up material from elsewhere around the settlement.

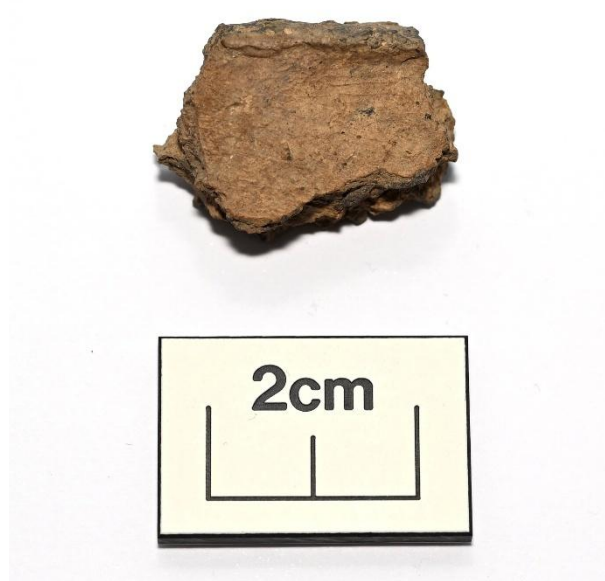


Plate 49: SF8173; Early Iron Age pottery from context [4247], the deposits providing the foundation material for the later Roundhouse wall



Plate 50: Photograph of the eroding seaward section showing context [4247], which is sealed by [4246]. The remains of the inner wall of the later roundhouse [1100] are at top right

3.7.2 The later roundhouse

The rebuilt roundhouse contained within the inner wall faces [1100], [1042], and [3722] had been accessed by a central passage, providing a way into the divided zones or rooms within the roundhouse. The rooms were created by both large set orthostats and wall elements. Some of these orthostats remained *in situ* to their full height such as those surviving on the northern division between the Eastern Room ('Structure 5') and the Northern Room. Although the tops of these orthostats are now very broken, enough of the original dressed edges remain to show that these stones were originally chosen and dressed to provide flat and near level tops (see photograph below).



Plate 51: The orthostatic division in the East Room (Structure 5) separating it from the Northern Room (top left)

The orthostatic divisions on the western side of the passage remain as stumps of the original upright stones and in places as orthostatic settings (represented by the packing stones of a missing set stone). There is evidence for both major modification of the Late Roundhouse and at the end of its life, a deliberate demolition event. It is clear from the excavation that both of these events affected the intact survival of the orthostats on the seaward side of the passage.



Plate 52: The Northern Room with orthostats surviving intact (left) dividing this space from the Eastern Room (Structure 5). This is in contrast to the orthostats on the eroding side of the central passage (right hand side of the photograph) which have been broken in antiquity with the demolition of the building

There is evidence for radial divisions in the later Roundhouse, which in places combine orthostats and walling such as that between the Northern and North Eastern rooms (Plate 53). In places there is an indication of corbelling of the inner wall face.



Plate 53: The combination of walling (butting the late inner roundhouse wall [3722]) and the use of orthostats to form the radial division between the North Room and the North Eastern Room

3.7.3 The Eastern Room ('Structure 5').

Structure 5 is the name originally given to the Eastern Room of the Roundhouse in its later phases and was partly excavated as part of an earlier scheduled monument consent (SMC) prior to SMC permission to excavate the whole of the roundhouse. This is the reason for the use of a

different structure number (as the room appeared to be a rebuild within the roundhouse and in use after the rest of the building) and the fact that Structure 5 up to this point has been excavated out of phase with the rest of the roundhouse. This part of the building provided evidence for a complex sequence of occupational surfaces and hearths. The later Structure 5 floors appeared to be domestic in nature with a range of artefact types, in contrast to the floor surfaces excavated in 2024 associated with the hearth sequence constructed against [1042].

The use of the Eastern Room (Structure 5) at the level investigated in 2024 appears to be associated with intensive burning within the hearth complexes. There is little cultural material at this level, suggesting a non-domestic specialist activity. This move from earlier non-domestic use to later domestic deposits is an unusual feature seen on other parts of the roundhouse.

The Northern Room provides evidence of bone working and contrasts to the activities taking place in the Eastern Room. The floor surfaces in both the Eastern Room and the Northern Room began to reveal, at the end of the 2024 season, the presence of earlier features such as orthostats and vacuous rubble indicative of an earlier phase of the Roundhouse. This earlier phase will be the target for investigation in 2025.

3.7.4 The Northern Room

The Northern Room is dominated by the rectangular hearth and is entered via the main corridor running through the centre of the building from the entrance. A second entrance provides access to and from the North West room containing the furnace. At the end of the 2024 season, the rectangular hearth and associated clay bedding was out of phase with the surrounding floor deposits and will be excavated and removed in 2025. The ash-rich floor surface and flagging appears in places to overlie areas of voids and vacuous rubble. The excavation of the remaining floor surfaces will be undertaken in 2025.

3.7.5 The North West Room

The presence of the iron smelting furnace in this room is a significant discovery and introduces several questions about the use of the roundhouse at the stage in which this building was in use. One fundamental question regarding the furnace is, are there other elements of the Roundhouse in use at the same time? Does it represent a feature at the end of the life of the Roundhouse or were other elements of the building still functioning? It is often suggested that smelting furnaces were one-use structures and built on the edges of settlements because of the fumes they produced but Dr Gerry McDonnell (archaeometallurgist, pers. comm.) argues that the careful construction of this furnace from dressed stones and clay suggests it was not for a one-off use but was a feature constructed for multiple firings over time, and therefore shelter of some kind would be necessary. The presence of the *in situ* anvil [4229] suggests a continuity of metalworking in this zone of the roundhouse. The presence of paving over the flue suggests there was later occupation activity post-dating the use of the furnace. It is interesting to note that the furnace is constructed within a room that has a higher floor surface than the Northern Room at this phase, as the steps in the adjoining doorway lead *down* into the North Room. A key target for 2025 will be to establish whether there are earlier floors relating to the late Roundhouse contained by the late inner wall [3722] that provide evidence of domestic activity.

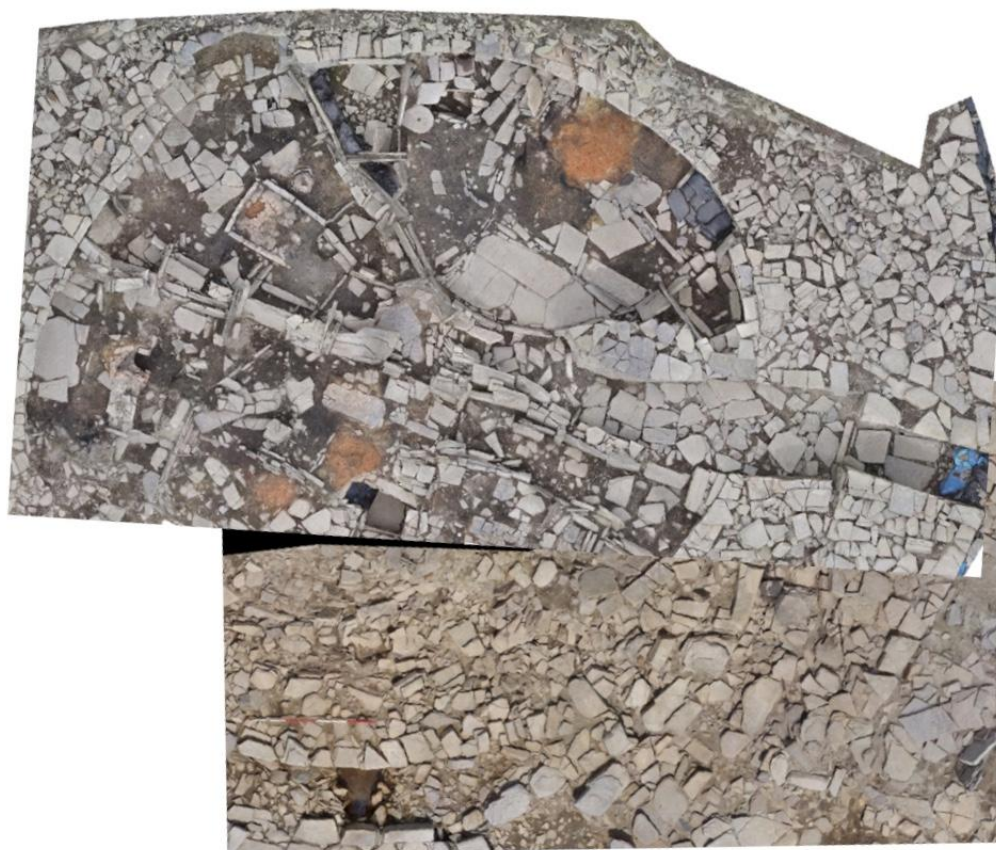


Plate 54: A composite orthographic plan (not scaled) showing the interior of the roundhouse as excavated in 2024 (top) with the eroded zone under the beach deposits, as recorded during the 2015 excavation. This image demonstrates the complexity of the earlier phases of the roundhouse construction, as seen in the lower part of the image

4. Environmental Remains

Julie M. Bond

4.1 Introduction

The sampling strategy utilised at Swandro originated from the experience gained in the integrated study of the Tofts Ness prehistoric landscape on Sanday, Orkney (Dockrill *et al.* 2007a; Dockrill and Bond 2009), refined for the excavations at Old Scatness (Dockrill *et al.* 2007b). It relies on the systematic bulk sampling of *in situ* material that has been undisturbed either by human or animal disturbance or the by action of the sea.

The samples are assigned an unique sample number identifier and their three-dimensional position is recorded, linked to the Ordnance Survey datum and the National Grid, essential pieces of information when working with complex deep stratigraphy sites where more than one type of sample may be taken from a deposit. To minimise error, a single number series is used both for samples and small finds, though 'blocks' of numbers are reserved for samples so that they are more easily recognised (Dockrill *et al.* 2007b).

Animal bone remains are not in general treated as small finds but are hand-recovered (for the larger bones) with smaller bones being recovered from the dry sieved material and the smallest bird, herpatile, small mammal and fish bones being recovered from the sorted heavy fraction of the flotation samples. The only exception to this is if articulated bone deposits or unusual clusters of animal bone are found, in which case these are treated as Special Bone Group 'small finds' and given a SF number and 3-D location, so that the unusual nature of the deposit is flagged and can be studied in more detail. A photograph is usually taken of such deposits.

All undisturbed archaeological deposits excavated are dry-sieved to ensure maximum recovery. A full list of samples taken during the 2024 excavations is presented in Appendix 8.

4.2 Sample types

Bulk sample (flotation samples)

Samples (ideally 60 litres) are taken from every potentially datable and stratigraphically secure deposit. These samples are processed in the field using a Cambridge Flotation Tank, with the carbonised material being captured by a 500 micron sieve (300 microns is usual on many sites but Northern Isles soils often have a high silt / clay component that clogs the mesh and the smaller size adds little extra information). A 500 micron mesh holds the heavy fraction. Both fractions are then hand sorted.

Spot sample

A discrete small sample taken from areas of concentrated material, such as patches of charred organic remains or a concentration of fish bone. They normally consist of a 300mm² bag (approximately five litres). These samples are hand-processed in the laboratory rather than put through the flotation machine. They may also be taken in addition to the bulk sample.

GBA - General Biological Analysis

A sample of five to ten litres. This type of sample is taken if there is suspected potential for more unusual survival, e.g. the presence of waterlogged material (possible given the evidence of a

spring line under the cairn), insect remains or parasite remains. The samples will be processed in the laboratory rather than in the flotation machine, though routine bulk samples may be taken from the same deposit.

Block or Monolith samples

These are samples taken for specialist research on soil structure and formation. These might be taken from compressed floor surfaces or buried soil horizons thought to have value in e.g. showing micro-structure using thin section micromorphology. Samples are usually taken in Kubiena tins and double bagged.

Magnetic Susceptibility

This technique is used to identify soils with high iron content that have the potential to become magnetic when exposed to a magnetic field derived from an electric current in a coil. These in situ measurements (using a hand-held magnetic susceptibility meter) provide detail on burnt features and the content of midden material. Samples may be given a sample number and their three-dimensional location is recorded.

Phosphorus

This technique is not routine, being used only to answer directed research questions. The phosphorus content of soil can be enhanced by the decomposition of organic materials in the past and this method may be useful in understanding depositional environments inside the chamber and passageway.

Small samples (2.5 litres) for both laboratory Magnetic Susceptibility and Soil Phosphorus measurements and e.g. palynology may be taken if requested by specialists or from samples thought to have potential to add significantly to the research. Lipids can persist in archaeological deposits and their utility in examining pottery use is well proven. At Swandro, if the depositional conditions are suitable we would use soil samples from the basal and floor deposits of the chamber and passage to identify decay products from cadavers that might indicate the laying out of bodies.

4.3 Animal bone

Assessment of virtually all the animal bone from Swandro was completed between the 2024 and 2025 seasons, with only a small amount of material from the 2024 samples remaining unassessed. In addition, a student project assessed and studied the cat remains from the site, of which there are an unusual number (Jacques 2025). Preliminary work suggests that once again there are more pigs from the Iron Age deposits than might be expected but not the large number of neonate animals seen in the later Iron Age deposits from Structure 5 infill.

The study of the Swandro cats suggests (from biometry) that the animals from all phases are mostly if not wholly domestic; this is interesting as cats seem mostly to be an Iron Age introduction to the British Isles, which suggests an early adoption of domestic cats in Orkney. The animals are mostly disarticulated, with occasional cut marks suggesting possible use of skins though the bone element representation and the presence of young animals does not suggest this was their main use.

5. A note on artefacts from the 2024 Season

Julie M. Bond with a contribution from Gerry McDonnell

5.1 Introduction

Work on the artefact assemblage from the 2024 excavations is ongoing. The term 'small find' refers to the single unique identifier attributed to an individual artefact, or in some cases groups of an artefact type found together, for example a group of prehistoric pottery sherds. The exact location of each 'small find' is three-dimensionally recorded using a total station. This allows for analysis of the spatial distribution of the assemblage. In order to avoid duplication and confusion, the same number sequence is used for the environmental samples (see above) which are also three-dimensionally recorded and appear within the list of Small Finds in the database.

Research into the artefact assemblage is ongoing and analysis of the individual assemblages will be carried out by specialists ahead of the full publication of the site. Below are some notes on particularly interesting finds from the 2024 season.

5.2 Worked bone and antler

One of the most interesting assemblages from the 2024 season was the range of worked bone and antler artefacts. Most of these objects came from the Northern room and a common factor was that they mostly appeared to be unused and possibly either unfinished or broken during manufacture. Fragments of whalebone and antler which appeared to be offcuts from working add to the picture of a 'workshop' area at this phase of occupation. A catalogue of the bone and antler objects is included, below, whilst some of the more interesting objects are illustrated here with brief notes.



*Plate 55: Fish-tailed weaving comb carved from whalebone, SF8114
[4192]*

One of the most interesting objects recovered this year was this 'fish tailed', broad, short-handled weaving comb, possibly unique in shape and apparently made from whalebone; the object is cut from the dense cortical bone of the surface, with the more vesicular cancellous bone visible on the underside. This object was recovered from the context below (and sealed by) the steps in the

Northern room, as were several unfinished pins. Although the teeth are finely smoothed, and there is some polish on the edge of the handle, much of the surface seems unfinished, with working cuts still visible on the surface (Plate 55). One of the teeth is broken but there is no wear on the remaining ones. It is possible that these combs were made by producing the 'blank' and then finishing the teeth first, as these were the part which took most skill and were most likely to break in manufacture.

The Howe report also mentions a fragmentary comb with an 'extreme waisted or fishtail body' and there are two slightly similar 'fishtail' combs from the Broch of Burrian. Another fishtail comb, with a longer handle and incised decoration, was found in later deposits in Structure 5 at Swandro in 2022.

There were two antler plates made for knives or similar objects, recovered in 2024. Neither has any evidence of copper or iron staining around the rivet holes nor is there evidence of wear on the surface. Both of these objects have three rivet holes, although SF8064 has holes along the length of the plate whilst SF8316 has three holes along the wide straight edge which would have been immediately above the blade. SF8316 is reminiscent in shape of a handle for a dagger or long-bladed knife.



Plate 56: Worked antler plate with three rivet holes. SF8064, [4060]



Plate 57: Worked antler plate with three rivet holes, SF8316, [4289]

A group of small points and pins were recovered this year (see plates below). Several of these are also from the Northern Room, a group of five unfinished pins or points (SF8123, SF8182, SF8183, SF8184, SF8185) all came from context [4255], which was a greasy black ashy layer between the large rectangular hearth and the steps in the Northern room. This context was sealed by [4192], the layer which produced the fish tailed comb.

There were also examples of antler and bone working offcuts such as SF8124, SF8139, SF8323, illustrated below, as well as a sawn or cut head from a cattle femur (SF8372, illustrated below). This is not a usual butchery practice and is most often seen when the femur head is to be utilised to make a spindle whorl, a type of artefact found in Iron Age and Norse period site in the Northern Isles and beyond. In this case the working does not seem to have progressed beyond the making of the blank. This object too came from close to the findspots of the pin blanks and the comb, adding to the impression of a workshop area.



Plate 58: Worked antler point. SF8196, [4205]



Plate 59: Bone pin roughout, SF8185, [4255]

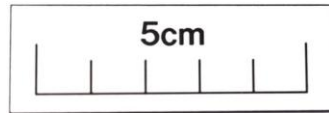


Plate 60: Bone/antler point. SF8123, [4255]

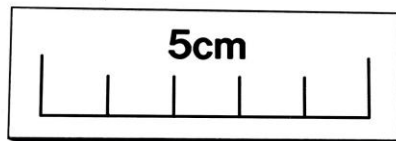


Plate 61: Bone pin roughout, SF8184, [4255]

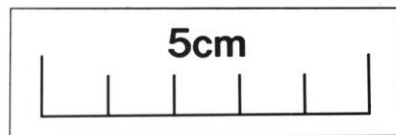


Plate 62: Antler pin roughout, SF8182 [4255]



Plate 63: Antler pin roughout. SF8183, [4255]



Plate 64: Worked bone/antler needle or lure, broken, SF8147, [4240]



Plate 65: Cattle femur head, sawn from shaft. Possible blank for spindle whorl? SF8372 [4257]



Plate 66 :Fragments of bone/antler working, SF8124, [4255]



Plate 67: Antler working offcut from beam, SF8139, [4240]



Plate 68: Antler beam offcut from antler working, SF8323 [4297]

Context number	Small Find number	Description	Photographed	Illustrated
4027	7702	Cut ossified cartilage fragment; joins SF7701 (context 4157)	N	N
4060	8064	Worked antler plate for a handle, three rivet holes, unused.	Y	N
4068	8012	Whalebone fragments; tray found, no find spot. Two fragments, unworked, possibly linked to [8013].	N	N
4068	8121	Antler tine, worked.		N
4152	7693	Antler tine, rough cut or chop marks		Y
4157	7701	Ossified cartilage fragments, cut, joins SF7702 [4027].	N	N
4161	8013	Whalebone; fragment from vertebral plate. From sieve, no find spot. New breaks, faint blue staining. May be same as 7668 and 8262, even though different contexts.	N	N
4161	8016	Small fragment of whalebone, not worked. Tray find, no find spot.	N	N
4177	7668	Whalebone, possible vertebral plate fragment. Blue staining on one edge.	N	N
4180	7871	Antler, no obvious working, ten or more fragments, new breaks, poor condition.	N	N
4192	8114	Fish-tailed weaving comb, whalebone, possibly unfinished as one tooth broken and rest unworn, some polish but also working marks still visible.	Y	N
4192	8262	Whalebone fragment from sieve; no find spot. Possibly a fragment of the same vertebral plate as 4177/7668; same blue staining, new breaks on both but do not join.	N	N
4194	8298	Tiny fragment of ossified cartilage from a sheep rib, no obvious working	N	N
4198	8011	Rib fragment with cuts and chops	N	Y
4205	7994	Large whalebone fragment, sawn.	N	N
4205	8196	Worked antler point	Y	Y
4228	7985	Sheep metatarsal, 3 fragments, possible cut/working marks	N	N
4240	8139	Antler beam fragment, sawn at base, some working marks	Y	N
4240	8147	Worked bone/antler pin or needle; broad and flat with hole, broken.	Y	N
4253	8162	Whalebone; two fragments (new breaks, join) from a vertebral plate, unfused. Poor condition.	N	N
4255	8123	Worked bone pin. Broken/unfinished top, polish on tip.	Y	Y
4255	8124	Two fragments of what appear to be two pins; new breaks, one is from a sheep metapodial and is unfinished.	Y	Y
4255	8128	Two small fragments, one bone, one ossified cartilage, cattle/deer size. Cut marks on ossified cartilage	N	N

<i>Context number</i>	<i>Small Find number</i>	<i>Description</i>	<i>Photographed</i>	<i>Illustrated</i>
4255	8182	Antler pin, top broken, poor condition but some polish on tip.	Y	Y
4255	8183	Antler pin, crudely worked, unfinished roughout?	Y	Y
4255	8184	Bone pin, poor condition, broken and possibly unfinished roughout.	Y	Y
4255	8185	Bone pin, top missing or unfinished, fine polish on tip.	Y	Y
4255	8189	Tiny fragment of antler; offcut.		Y
4257	8175	Small fragment of flat bone, not worked.	N	N
4257	8372	Sawn cattle femur head; unfinished spindle whorl?	Y	N
4289	8316	Worked antler plate; one large fragment and two small fragments (old breaks). Three rivet holes	Y	N
4297	8323	Antler beam offcut with chop marks	Y	N

Table 4: Worked bone and antler catalogue

5.3 Worked stone

A finely polished worked stone disc was also found in the Northern room. Many of these discs, like those from Old Scatness and Jarlshof in Shetland, are made from sandstone (although there is also an example from Old Scatness in garnetiferous schist) but this object seems to be made from a fine siltstone or mudstone when dry is grey-black in colour. The edges are millimetres thick and finely ground to give the impression of a perfectly circular disc. The surface is extremely well polished and smooth and when wetted in cleaning, changed to a glossy, reflective black.

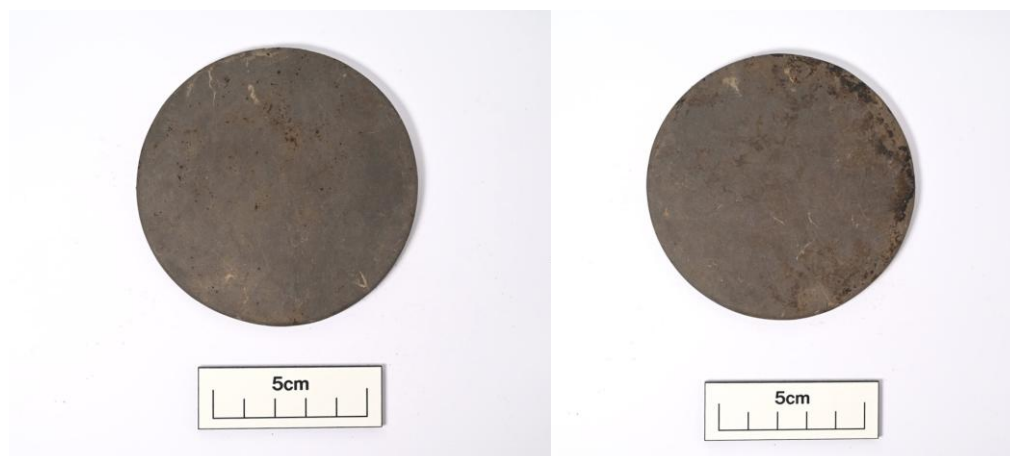


Plate 69: Both faces of the finely polished worked stone disc

5.4 The copper alloy object from Structure 5

Many fragments of iron and copper alloy, in extremely poor condition, were recovered from the site in 2024 but one object from the North East room (Structure 5) was intact; it appears to be a copper alloy belt hook of Roman Iron Age date (F Hunter pers. comm.). The object is currently

undergoing conservation but a preliminary metallurgical examination was first undertaken by Dr Gerry McDonnell, whose report is included below. He notes that the material is actually a brass, with low levels of zinc and minor amounts of tin and lead. He suggests that this indicates the object was cast from reused Roman brass.

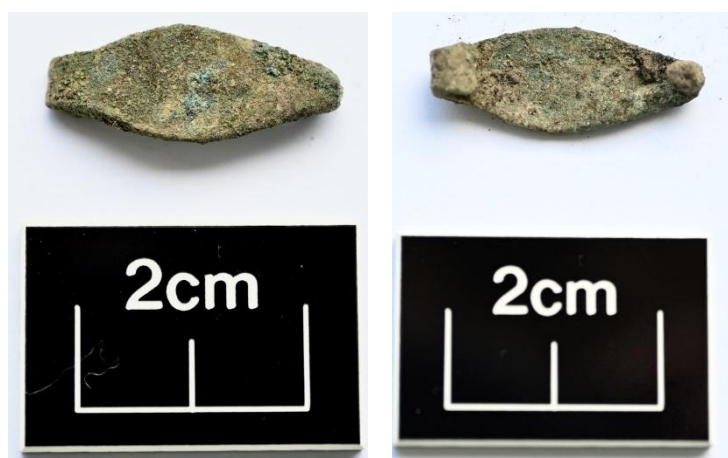


Plate 70: Copper alloy artefact SF7803; left - front, right - back

5.4.1 Hand-held X-Ray Fluorescence analysis of a copper alloy artefact SF7803, context 3889, SWR24

Gerry McDonnell

Introduction

A small copper alloy artefact SF7803 (Plate 70) was analysed by Hand-Held-Ray Fluorescence.

Methodology

The instrument used is a Brüker S1 Turbosdr hand-held XRF instrument operating at 40kV. A beam of x-rays is generated in the instrument and focussed on the sample, the x-rays interact with the elements present in the sample resulting in the emission of secondary x-rays which are characteristic (in terms of their energy and wavelength) of the elements present in the sample. The energies of the secondary x-rays are measured and a spectrum generated showing a level of background noise with peaks of the elements present superimposed on the background noise. Samples were analysed for 30 live seconds; the spectrum is stored and a normalised composition determined using a bespoke Bruker Fundamental Parameters Programme (R-Alloys FP). All elements heavier than calcium (Ca, Z=20), can be detected. The calculated two-sigma error on each element is calculated and overall show values of the order of +/- 0.2%. The data for the non-ferrous metal elements is normalised, noting that iron (Fe) is routinely detected, but derives from the corrosion products and not the original alloy. The data is generated in a comma delimited file and then exported to an Excel spreadsheet, where the data is examined, and relevant tables generated. The technique is non-destructive. Both sides of the artefact were analysed to investigate whether any surface treatment, e.g. plating had been applied to one surface.

Results

The raw data (Figure 8) showed a minor iron peak from the corroded surface. The normalised non-ferrous data (Table 1) showed that it was manufactured from a low zinc brass with minor level of tin and lead. There was no evidence of surface treatment, e.g. tinning on the front face.

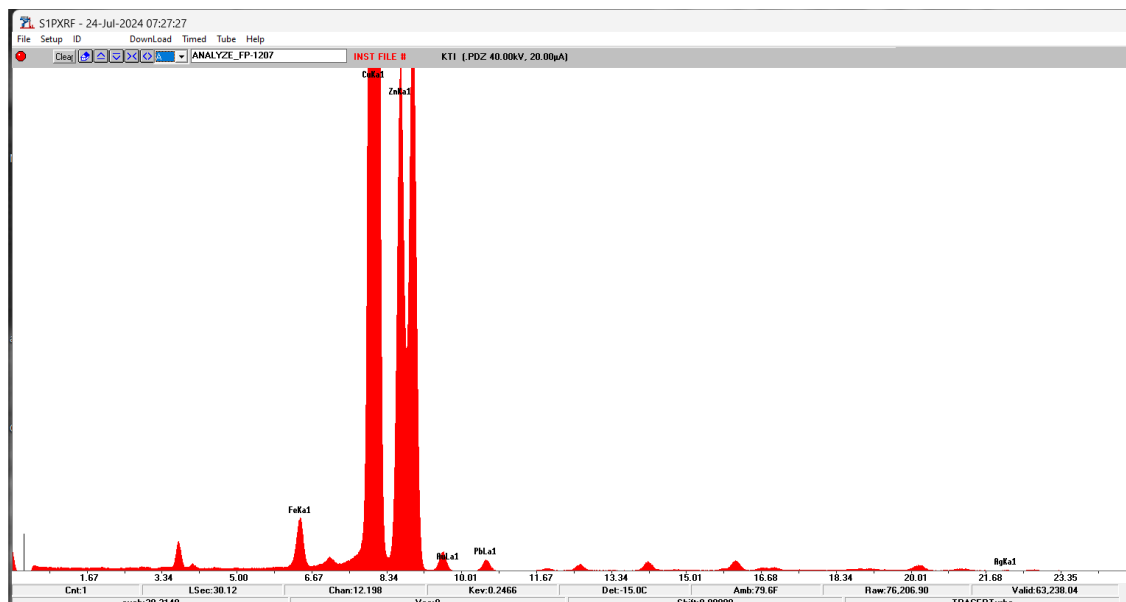


Figure 8: HH-XRF spectrum derived from the front surface of the artefact

Location	Co	Ni	Cu	Zn	As	Ag	Sn	Sb	Au	Pb
Front	0.1	0.1	88.4	9.8	0.2	n.d.	0.6	n.d.	0.2	0.6
Back	0.1	0.1	88.9	9.0	0.2	n.d.	0.7	n.d.	0.2	0.8

Table 5: Normalised non-ferrous data (weight %)

Discussion and Conclusion

The artefact was manufactured from a low zinc brass, suggesting it was cast from Roman brass resulting in loss of zinc during the melting of the alloy due to volatilisation of the zinc (boiling point 907°C).

6. Project Outcomes and Personnel

6.1 Project outcomes

6.1.1 Presentations, posters, talks and seminars

- University of Bradford School of Forensic and Archaeological Sciences; Seminar on Swandro, April 2024.
- Lecture on Swandro to Orkney Archaeological Society, May 2024.
- Lecture to U3A (Scotland) Archaeology group, October 2024.

6.1.2 Project-related publications 2024–2025

Booklet on the Archaeology of Swandro for Rousay, Egilsay and Wyre Development Trust; distributed to island households and available in the Rousay Heritage Centre.

6.1.4 Broadcast media

'Time Team' special 'Saving Swandro' for YouTube (currently 185,000 views)

6.1.5 Other outcomes

- Current Archaeology Rescue Archaeology Project of the Year 2024



Plate 71: Award for Current Archaeology Rescue Project of the year

- University of Bradford Outstanding Achiever Awards 2024: 'Outstanding Contribution to Learning and Teaching' Drs Dockrill, Bond, Batt, Koon, Beaumont, and Profs Gaffney and Wilson with other staff, for the teaching of archaeological excavation skills at Swandro.



Plate 72: Dr Julie Bond and Dr Stephen Dockrill receiving the University of Bradford Outstanding Achiever Award on behalf of the staff team

6.2 Personnel

6.2.1 Excavation

Excavation Director: Dr Julie M. Bond (University of Bradford)

Excavation Director / Photographer: Dr Stephen J. Dockrill (University of Bradford)

Supervisors: Alan Braby, Dr Caz Mamwell, Sarah George (University of Bradford), Jackie McKinley (Wessex Archaeology), Alice Beasley (Allen Archaeology), Rose Karpinski

Finds recording: Talia Ronge

Archaeometallurgy: Dr Gerry McDonnell

Survey and three-dimensional finds documentation: Tom Sparrow (University of Bradford), Gavin Edwards, Michal Szedzielorz (placement student, University of Bradford)

Three-dimensional laser scanning: Nicole Burton

Three-dimensional photogrammetric recording: Lindsay Kemp (Archaeological Services WYAS)

Archaeomagnetic dating: Dr Cathy Batt (University of Bradford)

Experienced excavators: Keith Prosser, Jack McDonald (Allen Archaeology), Rebecca Nicholson (Oxford Archaeology), Karla Itala

Placement students: Aidan Jacques

Students and Volunteers

6.2.2 Post-excavation

Illustrator: Alan Braby

Environmental processing: Dr David Lawrence

Post excavation consultant: Louise D. Brown

Pottery: Alice Beasley (Allen Archaeology)

Animal bone processing: Aidan Jacques

6.2.3 Trustees: Swandro – Orkney Coastal Archaeology Trust

Former Patron: His Royal Highness The Prince Charles, the Duke of Rothesay

Chair: Dr Stephen J. Dockrill, University of Bradford

Vice-chair: Dr Julie M. Bond, University of Bradford

Secretary and Treasurer: Dr Caz Mamwell

Charity Trustees: Professor Jane Downes, University of the Highlands & Islands Archaeology Institute; Julie Gibson, Orkney County Archaeologist; Dr Dave Lawrence; Professor Tom McGovern, City University of New York; Dr Ruth Maher, William Paterson University; Dr Ingrid Mainland, University of the Highlands & Islands Archaeology Institute; Sigurd Towrie.

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Appendix 1: Context register

Str. No. – Structure number

PMR – Primary Matrix Relationship

CONTEXT	AREA	Str No	Type (1)	Type (2)	Description	Interpretation	Method	PMR This context is BELOW	Same As	Equal To	Contemporary With
1100	E	6									
1132	E			LINTEL	Stone lintel south of 1100, cracked and seals two supporting walls	Possible stair					
3526	E				duplicate of earlier number, for record shot following removal of orthostat						
3617	E	5									
3858	E		RUBBLE			collapsed wall					
3899	E	5	ORTHOSTAT	STONE		Repurposed orthostat					
4113	E	5									
4137	E	6	FILL	CLAY	light orange clay used as packing for whale vertebrae 4134 in inner room sealed by 4315		TROWEL	4315			
4146	E	6	FLAGS	SURFACE	Flagging in Str6 central corridor. Sealed by 3968, butts walls 3874, 3458, and orthostat base 4147. ?sealed by 3857.		TROWEL				
4147	E	6	ORTHOSTAT	STONE	Orthostat stub (base) in corridor Str6. Broken base of 3857, butted by 3874, 3857		TROWEL			3857	
4148	E	5	LAYER	CLAY	Sealed by 4039, silty clay greyish brown deposit, by alcove/entrance.		TROWEL				
4149	E	6	ORTHOSTAT	STONE	notched orthostat in corridor		TROWEL		4090		
4150	E	6	RUBBLE	RUBBLE		wall					
4151	E	6	LAYER	SURFACE	Ashy deposit in seaward passage of Str6. Seals 4152, butts 3595, equal to/same as 4106. ?relationship with 4107.		TROWEL		4103		
4152	E	6	LAYER	SURFACE	Clayey silt deposit with some rubble in central passage of Str6. Butts 3951, equal to/same as 4103 (earlier number). Contains quernstone, hammer stone.		TROWEL		4103		
4153	E	6	STONE	STONE	Worn single stone butting 3596, sealed by 4152, in central passage of Str6.	Sillstone?	TROWEL				
4154	E	5	STONE	STONE	Fire Cracked Stone: heat-affected hearthstone, sealed by 4094, in Str5.	Hearth Stone	TROWEL	4094			
4155	E	6	LAYER	MIDDEN	Ashy/silty yellow-grey deposit with stone, east of orthostat line 4129, on beach edge below furnace room. Butts 4129, 4156, seals innermost in curving wall line (number?)		TROWEL				
4156	E	6	LAYER	RUBBLE	Small angular stones, loose shillet, dark matrix	make up for 4119	TROWEL	4119			
4157	E		RUBBLE	RUBBLE	small rounded stones made up of beach material with sandy silt matrix		TROWEL				

CONTEXT	AREA	Str No	Type (1)	Type (2)	Description	Interpretation	Method	PMR This context is BELOW	Same As	Equal To	Contemporary With
4158	E	6	RUBBLE	RUBBLE	large sub rounded rubble	possible beach material	TROWEL	4157			
4159			RUBBLE	RUBBLE							
4160	E	5									
4161	E	6	LAYER	SOIL				3787			
4162	E	6	LAYER	SOIL	dark brown silty clay, medium rubble and bone sealed by 4109			4109			
4163	E	6	LAYER								
4164	E	6	ORTHOSTAT	STONE							
4165											
4166	E	6									
4167	E	6	LAYER	SOIL	Yellow clay and orange mottles within possible channel of furnace. Sealed by 4060. Dark silty matrix with small angular rubble.		TROWEL	4060			
4168	E	6	LAYER	SOIL	Dark charcoal rich layer butting 4058. Fired clay throughout		TROWEL		4056		
4169	E	6	STONE	STONE	Stone between the two passage ways in STR6		TROWEL	4152			
4170	E	6	ORTHOSTAT	STONE	Small orthostat butting wall 3874 between the two passage ways						
4171	E	6	LAYER	ASH	Red ash and clay sealed by flags 4074 in hearth in N room. Merges into/equal to 4172	Bedding for 4074?	TROWEL	4074	4172		
4172	E	6	LAYER	ASH	Black ash and charcoal sealed by flags 4074 in hearth in N room. Merges into/ equal to 4171.	Bedding for 4074.	TROWEL	4074	4071		
4173	E	6	LAYER	ASH	Black ash and charcoal in mouth of furnace: sealed by 4060, butts .4057, 4058 ?equal to 4056?		TROWEL	4060		4056?	
4174	E	5	STONE	STONE	Large heat shattered stone sealed by ash layer 4113 and possible pier 4036	Hearth stone		4036		4133	
4175	E	5	LAYER	CLAY	Orange clay layer sealed by hearth stone 4174/4133	Bedding layer for hearth stone	TROWEL	4174			
4176	E	5	LAYER	PACKING	Loose shillet layer with small angular stones in entrance/alcove in Str5			4092			
4177	E	6	LAYER	RUBBLE	Stone and loose shillet in N room of Str6 sealed by 3944 (primary)		TROWEL	3944			
4178	E	6	STONE	KERB	kerbstone on slightly different alignment to kerbstone 4072 N room of Str6			4179			
4179	E	6	LAYER	SOIL	surface butting kerbstone 4178, sealed by 3944 in N room of Str6.		TROWEL	3944			
4180	E	6	LAYER	SURFACE	compact silty layer with charcoal flecks and very occasional limpet shell in corridor of Str6		TROWEL	4166			
4181	E	5	LAYER	SOIL	Grey brown silty clay with charcoal flecks within alcove/entrance to Str5			4176			
4182	E	6	STONE	KERB	Kerb stone at E end of hearth in N room Str6	Hearth Kerb					4184, 4185
4183	E	6	LAYER	ASH	Grey-brown ashy layer with charcoal flecks, E of hearth in Str6 N room			3944			

CONTEXT	AREA	Str No	Type (1)	Type (2)	Description	Interpretation	Method	PMR This context is BELOW	Same As	Equal To	Contemporary With
4184	E	6	STONE	KERB	Kerb in E part of hearth in Str6 N room		TROWEL				4182, 4185
4185	E	6	STONE	KERB	kerb in E part of Hearth in Str6 N room. Butted by 4183		TROWEL				4182, 4184
4186	E	6	LAYER	SOIL	Stone, shillet and earth in E end of Str6 N room. Butts 1038, 3941, 4184	make up for floor?	TROWEL				
4187	E	6	STONE	KERB	Kerb at E end of hearth in N room Str6. Butted by 4183, butts 4185, 4188		TROWEL				
4188	E	6	ORTHOSTAT	STONE	Broken orthostat stub in N room Str6. Butted by 4186, 4187, 4189		TROWEL				
4189	E	6	ORTHOSTAT	STONE	Blocky orthostat in N room of Str6						
4190	E	5	LAYER	SOIL	Fill of cell/blocked entrance, str5. Blocks of stone and a fill with carbon inclusions and patches l��d burnt clay, sealed by 4181			4181			
4191	E	5	LAYER	ASH	Ash spread (brown/pale beige with large charcoal inclusions) to seaward side of hearth 4175 in str5						
4192	E	6	LAYER	SOIL	Black stained silty clay SW face in inner room Str6. Sealed by 4076, butts 3794, 4193, kerb 4071, flags 4069		TROWEL	4067			
4193	E	6	FLAGS	STONE	Flag in inner room Str6: sealed by 4067, butted by 4192, sealed by 4193. Relationship with hearth? relationship to whalebone?		TROWEL	4067			
4194	E	6	LAYER	ASH	Pale grey-brown ask with large charcoal inclusions in the inner room Str6. Sealed by 4067, butts 3092, 4131, kerb 4072 seals 4193. relationship with whalebone?		TROWEL				
4195	E	6	STONE	STONE	broke, burnt stone in hearth in N room Str6. Sealed by 4171, 4172. seals orange ash 4196. Butts 4071, 4072, 4073	makeup for hearth	TROWEL				
4196	E	6	LAYER	ASH	Orange ash in hearth in N room Str6. Sealed by 4195. Butts 4071, 4072, 4073.	bedding for hearth stone 4195		4195			
4197	E	6	LAYER	SOIL	Grey brown silty clay and flat stones, in E corner of inner room of Str6. Sealed by 3944		TROWEL	3944			
4198	E	6	LAYER	SURFACE	Rough surface in Str6 passageway next to str5. Sealed by 4180, butts 4099. Medium sized angular stones in grey-brown silty clay matrix			4180			
4199	E	8	WALL	CORE	large rubble ?core in main wall of str 8 roundhouse E of str5. ?butts 1042, also has earlier number	Roundhouse wall	TROWEL				
4200	E	6	LAYER	RUBBLE	Angular poorly sorted rubble and grey brown silty deposit in central passage of Str6 .butts 3851, 3531, sealed by 4152, butts 4146			4152			
4201	E	6	LAYER	SOIL	Grey brown silty deposit in furnace room next to furnace. Butts 4137 sealed by 4136 ?relationship with 4173		TROWEL	4316			
4202	E	6	FLAGS	STONE	Flags in front of furnace Str6. Seals ortho setting 4203 sealed by 4156, butts 4129		TROWEL	4156			
4203	E	6	ORTHOSTAT	STONE	Orthostat setting in front of furnace, Str6. sealed by flags 4202		TROWEL	4202			4129
4204	E	6	LAYER	CLAY	Pale orange clay with charcoal inclusions in seaward passage of str6. Sealed by 4200		TROWEL	3591			
4205	E	6	LAYER	RUBBLE	Loose soil and angular rubble in seaward passage str6. Sealed by 4200	make up for surface	TROWEL	4200			
4206	E	6	LAYER	SOIL	silty brown layer in seaward assuage str6. sealed by 4200 butts 3951 1100		TROWEL	4200			
4207	E	5	STONE	PACKING	Large sub angular stones used to chock yellow orthostat 3617. loose brown silty matrix with limpet shell and burnt bone.	chocking for othostat 3617		3617			
4208	E	5	LAYER	ASH	charcoal and orange clay within alcove/entrance to str.5. Large stones showing burning on one face (inner?). Sealed by 4190		TROWEL	4190			

CONTEXT	AREA	Str No	Type (1)	Type (2)	Description	Interpretation	Method	PMR This context is BELOW	Same As	Equal To	Contemporary With
4209	E	8	STONE	OUTER-FACE	wall face within the main wall of str.8, NE corner of trench, E of str.5. Slopes outwards towards outer wall. Butted by 4210? butts 1023, sealed by 1019		TROWEL	1019			
4210	E	8	WALL	CORE	Large rounded boulders in a shillet matrix, inside wall of str.8 by E side of str.5. Butts 4209, sealed by 1019		TROWEL	1019			
4211	E	5	STONE	STONE	Cracked hearth stone in str.5. Butts structure wall 1042 sealed by ortho packing 4207		TROWEL	4207			
4212	E	6	LAYER	CLAY	Orange clay and ash. Sealed by hearth stone 3802. Located in str.6 butting soot stained ortho 3984	hearth bedding	TROWEL	3802			
4213	E	5	LAYER	ASH	Black ashy deposit in str.5. sealed by orange clay 4175. butts orthostat packing 4134		TROWEL	4175			
4214	E	6	FLAGS	STONE	Flags on seaward side of furnace str.6. butts ortho 4129 sealed by 4060	flagstone floor	TROWEL	4060			
4215	E	6	FLAGS	STONE	Flagstones in str.6 north room. Seals foundation stones 4066, same as/equal to floor 4069. Sealed by wall 3722		TROWEL	3722	4069	4069	
4216	E	6	LAYER	SOIL	Dark material accumulated between cracks in furnace base 4059 sealed by 4056		TROWEL	4056			
4217	E	6	LAYER	ASH	Ash material butting clay lining of furnace 4167? sealed by 4060		TROWEL	4060			
4218	E	6	LAYER	SOIL	Dark grey matrix with charcoal flecking and occasional burnt and unburnt angular stones. Butts orange clay hearth 4212. Sealed by flags 4202		TROWEL	4202			
4219	E	6			cleaning number for furnace in str.6. includes 4060, 4137, 4059, 4057, 4058, 4056, 4167, 4168, 4216						
4220	E	6	LAYER	ASH	large charcoal fragments in a brown-grey matrix in seaward passage of str.6. Butts hearth 4212. Same as 4151?		TROWEL	3801	4151	4151?	4212
4221	E	6	LAYER	RUBBLE	Grey brown sandy matrix with angular rubble and occasional limpet shell. Sealed by flags 3937, 3938 and 1103? same as 4205 in seaward passage in str.6	make up layer	TROWEL	3938			
4222	E	6	CUT		cut for furnace stone lining 4058 of furnace in str.6		TROWEL				
4223	E	6	LAYER	CLAY	slumped furnace lining. Equivalent to 4167 but slumped post use in str.6. Butting 4058		TROWEL			4167	
4224	E	6	LAYER	SAND	Sand and small rounded beach pebbles on sea erosion edge below furnace of str.6. Sealed by 4157		TROWEL	4157			
4225	E	6	LAYER	SOIL	Compact material between anvil stone 4229 and orthostat wall 4129 next to furnace in str.6	accumulation of silt between anvil and orthostat	TROWEL	4229			
4226	E	5	LAYER	SOIL	heat affected stones (flag?) and orange clay + charcoal in alcove/entrance to str. 5. Sealed by 4208		TROWEL	4208			
4227	E	6	LAYER	STONE	Small group of rounded pebbles butting hearth 4212		TROWEL				4212
4228	E		LAYER	CLAY	Yellow clay surrounding hearth 4212 at end of seaward corridor of str.6. Butts hearth 4212		TROWEL				4212
4229	E	6	STONE	STONE	Anvil stone associated with furnace in str.6. Sealed by flagstone 4136. Butts fill 4225 and 4129	Anvil stone		4136			
4230	E	6	FLAGS	STONE	Flagstones within cell in str.6 N room. Sealed by 4161		TROWEL	4161			
4231	E	6	WALL	STONE	Wall fragment in N room of str.6. Butts 3978, butted by steps 4019						
4232	E	6	ORTHOSTAT	STONE	Orthostat in N room of str.6 poss associated with orthos 4185, 4187. Sealed by 3944			3944			
4233	E	6	STONE	STONE	Stack of stone, seals wall 1133 in seawards part of str.6. Seals 3969. Seals wall core 3963. Sealed by ? 3875	slipped from wall 1100		3875			

CONTEXT	AREA	Str No	Type (1)	Type (2)	Description	Interpretation	Method	PMR This context is BELOW	Same As	Equal To	Contemporary With
4234	E	6	STONE	STONE	Large stones sealing wall 1133 in seawards part of str.6. Sealed by?	slipped off 1100					
4235	E	6	LAYER	STONE	loose shillet and small sub-angular stones, sealed by [4156]. butts orthostat setting [4203] and orthostat [3976].		TROWEL				
4236	E	5	LAYER	SOIL	sub angular stones with charcoal stained matrix between. butts wall of str5 1042 and ortho setting 4134. sealed by orthostat 3617 and chocking 4207		TROWEL	4207			
4237	E	5	STONE	STONE	square medium sized stone with pecking on top surface	anvil stone	TROWEL				
4238	E	6	LAYER	ASH	dark brown ash and soil with frequent charcoal flecks and grey clay mottles. Butts 3591 and 3600 of wheelhouse hearth in seaward side of str6		TROWEL	4239			
4239	E	6	LAYER	ASH	brown ash and charcoal with occasional ora he clay mottles, butts 3599. contained within orthos 3591 and 3600 in seaward side of str6		TROWEL	3946			
4240	E	6	LAYER	SOIL	friable brown silt with light orange clay mottles and occasional charcoal flecking. sealed by flagstone 4123 in str6 butts outer wall 3722		TROWEL	4213			
4241	E	6	FLAGS	STONE	flagstone sealed by orange clay 4212 at end of seaward passage str6. butts ortho 4242	flagstone	TROWEL	4212			
4242	E	6	ORTHOSTAT	STONE	Fractured orthostat sealed by orange clay [4212] at end of seaward corridor str.6. Butts flagstone 4241			4212			
4243	E	5	STONE	STONE	large and medium rounded stones butting outer wall or str 5. Butts anvil stone 4237. Sealed by 4015		TROWEL	4015			
4244	E	5	LAYER	ASH	ashy patch containing light orange mottles throughout. butts orthostat 1045 and outer wall of str. 5		TROWEL				
4246	E	6	LAYER	SOIL	silty brown storm deposit with patches of yellow clay, sealed by [4221], butts [1136], [1133], seals [4247]		TROWEL				
4247	E	6	LAYER	RUBBLE	angular platy rubble and brown silty matrix, between (butts) walls [1136] , [1133] , sealed by [4246], ? sealed by [4248] (primary?)						
4248	E	6	LAYER	SOIL	yellow-brown silty deposit between (butts) walls [1136], [1133], ? seals [4247]? , equal to [3998] ?		TROWEL			3998?	
4249	E	6	STONE	STONE	hearth stone in large horseshoe hearth 146™m str6. sealed by 3946 (number originally for whole sequence) butted by 4238, 3780+4250	hearth stone		3946			
4250	E	6	LAYER	SOIL	silty ashy deposit, with frequent charcoal flecks and orange mottles. butting [4249] on seaward side of Str6. Sealed by [4238].		TROWEL				
4251	E	6	LAYER	ASH	ash deposit, sealed by [4249] on seaward side of Str6. frequent charcoal flecking and orange mottles. butts [4252]		TROWEL				
4252	E	6	STONE	STONE	hearthstone on seaward side of Str6. sealed by [4249] and [4250]. cracked into six major components						
4253	E	6	LAYER	MIDDEN	Brown silty loam of shillet in passage between N. room str.6 and passage into 5. sealed by broken orthostat (4096), contains large amount of v. small fish. same as (3944)?		TROWEL	4096	3944	3944?	
4254	E	6	LAYER	ASH	greasy black layer with charcoal flecking and yellow and orange clay mottes: sealed by 4192, equals 4255? str.6 inner room		TROWEL	4192	4255?	4255?	
4255	E	6	LAYER	ASH	greasy black layer with charcoal flecking and yellow and orange clay mottes: sealed by 4192, equals 4254? str.6 inner room		TROWEL	4192	4254?	4254?	
4256	E	6	LAYER	CLAY	yellow clay around central hearth in str. 6 inner room. sealed by 4192, butted by 4254. butts 4071		TROWEL	4192			
4257	E	6	LAYER	RUBBLE	Surface in str6 inner room: sealed by 4192 Mixed silty clay brown loam lumps/mottles and yellow clay. butts 3722, 4073. ?relationship with 4254, 4255		TROWEL	4192			
4258	E	5	LAYER	ASH	Ash floor in str5. sealed by 4107 butts 4134		TROWEL	4107			

CONTEXT	AREA	Str No	Type (1)	Type (2)	Description	Interpretation	Method	PMR This context is BELOW	Same As	Equal To	Contemporary With
4259	E	5	STONE	STONE	broken flagstones on str5 sealed by 4107 butts by 4134	flagstone floor	TROWEL	4107			
4260	E	5	LAYER	STONE			TROWEL	4259			
4261	E	5	STONE	STONE	Flagging and yellow clay, butting inner wall 1042 of of str5. Butted by 4260 and sealed by 4107	flagged floor	TROWEL	4107			
4262	E	5	FLAGS	STONE	3 flagstones in str. 5 sealed by 4042 butts ortho 4041 and 4035	floor surface	TROWEL	4042			
4263	E	5	LAYER	ASH	dark grey silty material between entrance and alcove of str5. sealed by flagstone floor 4262		TROWEL	4262			
4264	E	6	LAYER	RUBBLE	loose shillet at seaward side of site, butts wall1133 face and sealed by 4247	wall core	TROWEL	4247			
4265	E	5	LAYER	ASH	beige ash with charcoal flecks butting outer wall of str. 5	lower layers of 4115	TROWEL		4115		
4266	E	6	LAYER	RUBBLE	loose shillet and small rubble on seaward edge of wheelhouse hearth. sealed by hearthstone 4252	make up for hearthstone	TROWEL	4252			
4267	E	6	ORTHOSTAT	SLOT	orthostat setting butted by hearthstone 4252 sealed by hearthstone 4249 seaward side str.6 in horseshoe hearth		TROWEL	4253			
4268	E	6	LAYER	SOIL	Compact mid brown layer with occasional charcoal flecks at end of corridor next to str5. Butts flagstone 4268 sealed by 4253	floor surface	TROWEL	4253	4197?		
4269	E	6	FLAGS	STONE	Single flagstone in end of corridor next to str5. sealed by 4253. Butted by possible surface 4267	flagstone	TROWEL	4253			
4270	E	6	FLAGS	STONE	large flagstone in seaward corridor of str.6. Seals sill stone 4270. Sealed by layer 4205		TROWEL	4205			
4271	E	6	STONE	STONE	possible sill stone between corridors. Sealed by flagstone 4269	sill stone?	TROWEL	4269			
4272	E	5	LAYER	ASH	orange heat affected ash against back wall of str5. sealed by clay layer 4175		TROWEL	4175			
4273	E	5	LAYER	ASH	dark grey ash with charcoal flecking butting orange ash 4272 and orthostat setting 5134. sealed by 4211			4211		4272	
4274	E	5	STONE	STONE	cracked stone butting ash 4273. sealed by 4211 in str 5	flag stone?	TROWEL	4211			
4275	E	5	LAYER	ASH	Dark brown silt. ext to alcove/entrance of str5. contains small angular stones and occasional yellow clay patch. associated with flagstones 4262. sealed by 4042	surface	TROWEL	4042			4262
4276	E	6	LAYER	CORE	Loose sand and small beach pebble contaminated grey-brown skit on seaward edge of site below horseshoe hearth. Butts wall 1136 and sealed by 4246	wall core	TROWEL	4246			
4277	E	6	LAYER	RUBBLE	medium and large rubble with shillet. on seaward edge of str6 below horseshoe hearth. Sealed by clay 3988		TROWEL	3988			
4278	E	6	LAYER	SOIL	town grey silt with shell and animal bone. Sealed by 4240 in furnace room of str 6		TROWEL	4240			
4279	E	5	LAYER	ASH	grey ash with charcoal mottling butting 4134, lower spit of 4258, sealed by 4107	ash floor	TROWEL	4258	4258		
4280	E	5	LAYER	ASH	Layer of black ashy material with angular rubble with yellow clay structure 5. adjacent to cell and paving. sealed by 4262		TROWEL	4275	4263		
4281	E	5	FLAGS	STONE	layer of medium sized platy rubble. str5 against inner wall with flags. sealed by 4p32, lower level of 4039		TROWEL	4039			
4282	E	5	LAYER	ASH	layer of ash with yellow and orange clay. butting hearth stone 4274. sealed by 4272 in str5		TROWEL	4272			
4283	E	5	LAYER	ASH	layer of ask with charcoal flecks sealed by 4265 in str5 ash is beige in colour, Lowe level is 4265	ash dump	TROWEL	4265		4265	4282?
4284	E	5	STONE	STONE	large cracked stone used as hearth stone in str6 north room sealed by 4196		TROWEL	4196			

CONTEXT	AREA	Str No	Type (1)	Type (2)	Description	Interpretation	Method	PMR This context is BELOW	Same As	Equal To	Contemporary With
4285	E	6	LAYER	SOIL	compact brown-grey silt and ash with very small shillet fragments sealed by flag stones 4214 on seaward edge of furnace room		TROWEL	4214			
4286	E	5	LAYER	ASH	orange heat affected clay in central hearth of str5. sealed by hearth stone 4274	make up for hearth stone	TROWEL	4274			
4287	E	6	LAYER	SOIL	brown silt and medium sized sub angular rubble below horseshoe hearth on seaward edge of str6. sealed by 428u butts 1136		TROWEL	4287			
4288	E	6	ORTHOSTAT	STONE	orthostat in pier between inner room and furnace room in str6. butts 3864. butted by 4289. contemporary with 4290?		TROWEL				4290?
4289	E	6	FILL	SOIL	fill of pier between inner room and furnace room of str6. butts 4288, 3846, 4290. sealed by 3865			3865			
4290	E	6	ORTHOSTAT	STONE	orthostat in pier between inner room and furnace room str6. butts inner wall of str 3722, butted by 4289, sealed by 3865. contemporary with 4288?		TROWEL				
4291	E	6	LAYER	SOIL	brown silty clay with very occasional charcoal flecks. butts 1136 below horseshoe hearth on seaward edge of str6. sealed by 4287	infill between walls	TROWEL	4287			
4292	E	6	LAYER	ASH	dark soil mottled with charcoal and orange clay in furnace room hearth complex of str6. sealed by 4241		TROWEL	4241			
4293	E	6	FLAGS	STONE	large flagstones in corridor next to str5 sealed by 4268		TROWEL	4268			
4294	E	6	ORTHOSTAT	STONE	orthostat on lower edge of str6 forming part of ash box. butted by 3630, may have old number		TROWEL				
4295	E	6	ORTHOSTAT	STONE	orthostat now fallen, once forming back wall of alcove in furnace room of str6. sealed by 4288	orthostat	TROWEL	4288			
4296	E	6	ORTHOSTAT	STONE	orthostat top in furnace room str6. butted by 4288		TROWEL				
4297	E	6	LAYER	MIDDEN	brown silt with light orange mottles and charcoal flecks. sealed by 4295 in alcove in furnace room of str6	fill of alcove	TROWEL	4295			
4298	E	6	STONE	STONE	large rounded stones on seaward edge of str6 below horseshoe hearth butts wall 1136 butted by 4291	infill between walls	TROWEL				
4299	E	6	LAYER	SOIL	dark silt with occasional yellow clay mottoes sealed by 3988. butts 4298		TROWEL	3988			
4300	E	6	LAYER	SOIL	friable silt with large fragments of pottery and antler. contained in alcove of furnace room of str6. sealed by 4297		TROWEL	4297			
4301	E	6	LAYER	ASH	lenses of orange and black ash located in hearth complex in furnace room of str6 sealed by 4212		TROWEL	4212			
4302	E	6	LAYER	ASH	very dark ash with very occasional yellow clay mottles sealed by 4218 in hearth complex of str6 furnace room		TROWEL	4218			
4303	E	6	LAYER	ASH	dark ash and light grey clay butting orthostat 3799 and 4242. sealed by 3790						
4304	E	6	FLAGS	STONE	cracked flagstone in hearth complex of str6. sealed by layer 4302	lid/capstone for tank or cist	TROWEL	4302			
4305	E	5	ORTHOSTAT	STONE	two orthostats butting 4040 in str5 forming ash box. sealed by 4263	ash box	TROWEL	4265			4307, 4306
4306	E	5	ORTHOSTAT	STONE	small orthostat forming side of ash box in str5 butting outer wall 1042. sealed by 4265		TROWEL	4265			4305, 4307
4307	E	5	ORTHOSTAT	STONE	a blocky and a thin orthostat forming side of ash box in str5. sealed by 4265	ash box	TROWEL	4265			4305 and 4306
4308	E	5	STONE	STONE	heat affected stone within ash box in str5 sealed by ash 4283	base of ash box?	TROWEL	4283			
4309	E	6	STONE	STONE	large angular stones in lower/seaward section of str6 below horseshoe hearth sealed by 4298	infill between walls	TROWEL	4298			
4310	E	5	LAYER	ASH	patchy fill consisting of light yellow clay, black charcoal and orange clay surrounding hearth in str5. butts orthostat 4311. sealed by 4282		TROWEL	4282			

CONTEXT	AREA	Str No	Type (1)	Type (2)	Description	Interpretation	Method	PMR This context is BELOW	Same As	Equal To	Contemporary With
4311	E	5	ORTHOSTAT	STONE	long orthostat broken into 3 pieces. butted by ash 4310 sealed by 4282		TROWEL				
4312		5	LAYER	ASH	mottles orange and yellow clay with small angular rubble butting orthostat 4035 outside of alcove/entrance to str5		TROWEL	4033			
4313	E	6	LAYER	CLAY	mixed yellow clay and dark silt in alcove of str6. sealed by 4300		TROWEL	4300			
4314	E	6	FILL		whalebone vertebrae in N setting inner room of str6. butted by stones 4315		TROWEL	4315			
4315	E	6	STONE	PACKING	small stones set around hale bone 4314 in inner room str6. butts 4314 cut 4316, butts flags 4193		TROWEL				
4316	E	6	CUT		cut for whale bone vertebrae 4134 in inner room str6. sealed by 4134 and 4135		TROWEL	4134			
4318	E	6	LAYER	CLAY	yellow clay butting hearth kerb 4107 in inner room str6: sealed by 4069? earlier hearth			4069			
4319	E	6	ORTHOSTAT	KERB	small orthostats forming kerb around flagstones 4193 butted by clay 4318, inner room str6		TROWEL				
4320	E	6	LAYER	ASH	grey ash and small flagstones in str6 inner room. may have been floor surface but very mixed butts 3722, sealed by 4069, 4192	floor surface?	TROWEL	4192			
4321	E	6	LAYER	CLAY	yellow clay in hearth in inner room str6. seals hearth stone 4284, butts 4072, 4071, 4073. sealed by 4196			4196			

Appendix 2: Context photographic record

These photographs are record shots only, taken on the iPad at the time of recording the context.

Context	Photograph Filename
1100	CB9DE1A6-C70B-4D2C-B1C9-12AE3BBF9EC1.jpg; 061E78D4-FBD4-4856-B008-05FEAA1C368B.jpg; 02AFBF3A-8F6A-4C71-99E4-25AFE03774F6.jpg
1132	AA402836-7179-4A6C-9F1D-D38BD7D33C2E~L0~001.png; 354DBC3D-8A01-4107-BDDF-E48A5B0349A1~L0~001.png
3526	9C5A0076-CDBB-4443-B13F-ACA8CD0C59FC.jpg; 641BDB9A-6B20-4A3B-A268-5E3B244CD8AA.jpg
3617	3A4F3D24-0DC0-44A6-B11E-3F3E3E6C5703.jpg; 3316F6F1-5FF8-4E02-A300-0C66CD05C847.jpg
3858	9AB8E9EC-8876-4DF5-A32B-7945B43BC84E.jpg
3899	2D487A02-74A1-4891-A20E-94B978D0CF9D~L0~001.heic; 0390BE56-F554-4F39-8B92-A8342714D313~L0~001.heic
4113	B20DCBB8-2A74-414C-9B4E-A89D9C2A453A.jpg; 224AB75F-56F8-402A-AFCE-7624AA67F41D.jpg
4137	F6B730BE-3119-4A72-80B6-4548E708597C.jpg
4146	
4147	B28ADA0A-F9A1-4CF6-9B59-5D443AC552FA.jpg; 3FF18DAD-61CC-4ECA-B36C-220EE2C1ED79.jpg
4148	
4149	11BA79BD-4E04-488C-BF44-63DDD62F57B9.jpg; 66125215-1467-4AFB-83A4-C82015711657.jpg
4150	97003617-CA50-4904-A047-E2890F05827F.jpg
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4152	
4153	
4154	03A1220D-DF76-48A1-8D07-678619B8CB4D.jpg
4155	58728759-7C74-45FC-9D0D-E8DC7F2E893C.jpg; D301C82D-87B7-4501-B7BC-50F6B7B83C89.jpg
4156	33334A25-00B4-4723-B581-85676C572230.jpg; 1E6CA6AA-01B6-45D7-8269-CB9C0B9DA261.jpg
4157	55EB94B3-0F9A-4440-AB9F-A722F8E1BF3E.jpg
4158	234498A2-F1BC-4FEC-8592-36FFB6370D3C.jpg; 63FA930D-770C-48AD-9ADA-D79519D5E5A1.jpg
4159	39CEABEA-071B-4D9C-A49C-E25FAC48EE0B.jpg
4160	39C96788-4EB1-4C1B-8E7B-D27C028A72B8.jpg
4161	A62EC268-A4C9-4FCF-8B59-065FEA83752F.jpg
4162	1EFB1256-B5F9-4B8E-A6B9-46BD27F46CAB.jpg
4163	3B45D109-8E4E-4D6F-AEB3-04DAE030ECE6.jpg; B9E4773B-1B83-41F1-9196-30D7E936CC18.jpg
4164	AA0C7394-3EC4-4A56-928A-BB39AC329FF6.jpg; C2354402-D9CC-4B98-9904-009A0C4DDDD9.jpg
4165	65D9E938-48C0-4E9B-BC61-48918BF360AB.jpg; 7973910C-E820-47C5-A5AC-9E8C28278EC5.jpg
4166	F6A13E92-70DA-41EC-A819-1793E590C924.jpg; 8DCA9F84-B209-42B8-9DE0-D1F17B2170C0.jpg
4167	13F4E14B-78A0-44D3-B94D-478A4F420C5D.jpg; 8A30A345-284F-4BDA-B0C1-9E25E4663FBA.jpg
4168	FEFD623B-5AD6-4CC2-B4C1-1C888D00A79C.jpg
4169	9FAF3F4E-A90A-4B93-98E3-3560EBE137CF.jpg
4170	E683B657-92DE-4087-9C82-BC65B3BCBC1F.jpg; 71D5B667-2EDF-4A9C-B1CA-5A895352BAFE.jpg
4171	D0008304-4F1B-413A-9447-D3DFB358168D.jpg; A1EE08FD-2682-4562-BD84-8B9178D4138F.jpg
4172	C87F1721-0078-4607-842B-CEAF95BB73B9.jpg; 78141C5B-6B3E-4EE0-88D0-730493D89458.jpg
4173	5C563A4E-0542-41DC-8FA7-0BE216DEA2F7.jpg; 2EB068B0-D1F8-4C53-B625-2306F0FB2BDA.jpg
4174	6584A670-4A61-4034-A16D-D136CA2D5C39.jpg; 3D2FCDE1-81FD-47AA-A9DD-91BD168735E8.jpg
4175	4A01D3BD-1FA3-40D9-B3CD-599F9AE4684C.jpg; F21B83F4-10A0-4DEB-95AA-E8B8D6C083C6.jpg
4176	1E172650-49C4-4A39-BD0D-BCA506357D88.jpg; FA6D916D-BF8F-4F22-82E5-075B2CD4A447.jpg

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4177	21E16C35-505C-48D7-9478-5FB5789E7282.jpg; E2569AE1-3ED1-43BE-B855-53E37009320E.jpg
4178	A6ABC455-F799-411D-B870-FC5736C66D63.jpg; D6806676-133F-4E70-8110-4BEDB15630C2.jpg
4179	254D042F-1F7F-4FA6-BAA3-F5BCD110DC51.jpg; 23EFDDB2A-D753-4146-9801-A1F1B03F162F.jpg
4180	C82E015D-09C1-4742-AC2B-51E122FEB693.jpg; D0BC0C2B-570D-40C4-A89D-300C30618387.jpg
4181	87ECF26E-315C-4529-908F-CB68C73007F3.jpg; 775BB467-3E3B-470C-92B2-363126F45E6F.jpg
4182	CF122991-9E9D-4C13-A2DD-B6106CF0C1EB.jpg; AABFE7E4-696F-4511-8511-8F2AAFC7E3CE.jpg
4183	E2F7B97E-7C59-4D1D-8388-AAED83A6CFDA.jpg; 147CFCA6-855F-4327-9D47-B00144D26ADD.jpg
4184	EB4DB96C-E581-405A-84CF-251E9002D72B.jpg; DF7532F3-F7B7-4865-9609-7F73CF0AEC36.jpg
4185	823DA74B-A6FF-43C2-A5C9-C6A0744FB421.jpg; 37E4EAB3-07D7-4844-923E-EA386DD5B525.jpg
4186	41FEB010-6A00-4490-ADE6-B4F1D8FCAE4D.jpg; B76722EC-CA26-4229-BE1A-084D182145C2.jpg
4187	417959CC-B919-46EA-B93C-6E967652C847.jpg; 6B1E9AD9-619C-4A6B-8790-27EE3AE6E505.jpg
4188	47ACE2A7-433C-479C-A70D-8473BC27E9CA.jpg; 3DE7D699-2600-47DA-BFEB-19A4DA205D84.jpg
4189	9C54D2EE-7A6F-42DE-851F-99C7FE62CDF3.jpg; 65E430B6-446D-40D5-9630-5B5B4926EAA2.jpg
4190	DB2C33E7-CB25-4415-AD42-FD4A7513A150.jpg; 1D4B6096-FFF4-4072-90A8-12407895D87E.jpg
4191	0EADF2CD-1079-4071-A59F-25E15478CAF1.jpg; 8F9842A0-8288-4C62-9D29-22051020B875.jpg
4192	
4193	165C73A3-25BD-4CBA-8435-984AD848B82C.jpg; B2CCD830-7049-482B-8958-6E3DA3F0370C.jpg
4194	1D064E90-F027-40DA-9DC0-B53ED51521CB.jpg; 69FC6EBD-CA97-478C-A763-30F00E5DC3CD.jpg
4195	0C4C065F-F909-4A68-AB9C-63C544305D22.jpg; DD3F1192-4AFD-425D-8585-A67D40A8B4E1.jpg
4196	449DF4CA-61B6-4165-B3DA-17C980C4F283.jpg; ADC475A2-FF70-4E5F-A87A-DBEDBCDAA7DF.jpg; 20FC801D-7653-4EC6-8541-9387DB6CC89D.jpg
4197	AD0B8C1F-969E-41DA-AE0D-7FC4EF214097.jpg
4198	E18521E8-F1C2-4993-AEB2-18D1BBCE03E2.jpg; 6B0B48FE-0F60-41AD-8227-1F87996064C2.jpg
4199	4B964BC6-FB3A-430C-B8BA-2369E6A446F3~L0~001.heic; B93B7A85-701B-4B30-B9B7-9E2A6A61012D.jpg
4200	8CFC812A-39E4-4BBE-ACF8-D275ABA864B5~L0~001.heic; B319FF67-14B3-4C2E-9786-125BB172E9D1~L0~001.heic
4201	660B2A41-DA1B-4436-8666-9B5614BF366F.jpg; B7271C49-5736-49C5-BAD1-17B884D3EC17.jpg
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4203	52E38DAB-E0C7-44AB-B631-0018F62BE1DE.jpg; 3D5132C9-E822-4968-89F9-94D5A865B6DA.jpg
4204	9CE31C03-9FEA-4075-9222-01C47CD47738.jpg; 87527D8E-3443-422D-AE68-8BB86EBBADEF.jpg
4205	9BA82F75-1526-4071-8643-BFFF0092EEBD.jpg; 1946CDFE-D970-46BD-A66D-245711516A18.jpg
4206	C2E4CC41-BF23-4977-92AD-D7C428AF9B97.jpg; 4BF54934-4991-4F48-BC4F-035F5DB11EC1.jpg
4207	2D9C9DB6-7F71-4A49-A515-097C4A089690.jpg
4208	4C88E657-4DD6-4E53-BD27-A36A9FBDB879.jpg; E00C0EC4-9BEE-4F61-970F-B8CABCE734DB.jpg
4209	B7D73693-E433-4AC9-B8FD-B575287AB926.jpg; ED889D61-0413-4CE1-88EE-5020B1783CA2.jpg
4210	AEC06FE5-3309-418D-A19B-8314EAAECB6D.jpg
4211	967BDCC9-0706-4A66-831E-8DB3BE76915B.jpg
4212	0A532EDD-25F9-4B58-967D-C9DC6B9949B0.jpg; 0CB09AF3-A4AC-483E-8CEE-220818EAB83F.jpg
4213	07DDB3B1-9663-4375-843B-0F23D5CA6EE8.jpg; 549720F0-C7BD-4DCB-B082-338A396128E1.jpg
4214	1B688BB1-D4A2-413D-A33D-9476741188B9.jpg; DC9224DF-454C-46E7-B290-2689637C3370.jpg; 2649C58A-D26E-4615-8723-940C843E51C5.jpg
4215	E4D53BB7-AC3A-451D-B68B-0DCA6AA19E8D~L0~001.heic; 68A0C2FB-B570-4404-9093-C4430E8FCF11~L0~001.heic
4216	B284A204-E21E-4A6D-8C50-0C0B445196CE.jpg; FB942234-1E07-414C-948F-F2B2E8F06A5D.jpg
4217	96EE8102-A818-4AF4-8B53-633126309338.jpg
4218	A102D721-B6A9-4A0E-8DD6-3E8854EBB7B5.jpg; 7E7AD3F0-4A37-4DD2-AA58-47A0C47AE743.jpg
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4220	57878F06-AA9A-4618-9A5C-0D84D9E9577A.jpg; 566712BA-790F-451F-8D09-C9C26597D24C.jpg
4221	64DFB6DF-EFED-47DC-9E5F-8FA58CF974D1.jpg; AB1D351E-7C8F-4C33-893F-48C2C032C456.jpg
4222	047C5303-CC59-4307-A069-32E41F115040.jpg; 0769FB9D-2D78-4170-A71F-EC4395FC3CDD.jpg
4223	4C1BFF23-2E02-40D4-B02E-AA6A53E7E10F.jpg; BF27FBD5-34FD-4717-B398-C4150506EAF3.jpg
4224	0F03AC77-AE92-40D4-8227-8D99CE2C3CD5.jpg; 35AC3286-D8D0-4D3A-A001-C0B7F97593F1.jpg
4225	0F800D13-B2D3-4EB9-ABA8-AB88B02CF46B.jpg; 8307EECE-8421-4B5F-B38E-5536A67533DB.jpg; 6687713B-729C-4AC1-8B3A-C2F15CF09B6C.jpg
4226	EF6CF394-B463-466B-BBAF-BFE911690CB4.jpg; 6D857271-D50F-401F-B26D-455ADA912331.jpg; 94962069-7363-4861-8BF3-17BF4F77F904.jpg
4227	59E019E9-202B-4C84-9D33-B00305C13C6F.jpg; 850E06F2-719B-4F10-9E21-7EF238687D7A.jpg
4228	62054815-5581-4EFE-83AC-909BB1803296.jpg; DDFBC024-69D9-459E-8F5F-99AD171BE139.jpg
4229	D760ACED-98ED-4BFC-8CA8-DBA100DDF5F6.jpg; 321552F3-1177-4771-9875-763DE604BC63.jpg
4230	2BBFF6C7-C1A9-4881-85F8-86D79CF66B1E.jpg; B2095CDD-6838-42E1-916E-8ED12785C964.jpg
4231	A3020F30-B125-46EE-A7A1-5CB0027BAA7A.jpg; BA929705-86C7-4CF8-88FA-E6098EB6EBE5.jpg
4232	5F1A53B2-807C-4A19-950C-9468B32A8B42.jpg; 002BE541-B7B4-4F88-8E33-2F63F4EA54C2.jpg
4233	9D795B4F-CFB8-42BF-B7AA-C6E9C546D881.jpg; 0F1B3031-8014-4FA1-AB6E-21B9C54C3B10.jpg
4234	D972650F-BC70-44DD-9208-020015B8F75F.jpg; D981E396-245F-4474-A41E-D14640F3AFEB.jpg
4235	75A3D1CD-5EEF-4B2B-AACE-89AE66282976.jpg
4236	4B73271B-3024-4B29-B433-90D1DEE817EE.jpg; 60C27973-6DB8-4275-A5D4-904D7ECE5D82.jpg
4237	B28A4C63-024E-484E-91E1-1352BEA9DFBB.jpg; F63FE4FA-A528-4D29-A7AA-A4F428F3D47E.jpg
4238	4223E0F3-1C4C-4589-8945-4BFE84DF88B2.jpg; E719F0F8-8AA5-404B-8BEC-3AB41F43B3CA.jpg
4239	403BF43B-C7CA-43F5-BE31-4BDB559E8C93.jpg; 396F5C41-3167-4F2C-8881-BF3E594E7B0E.jpg
4240	29BAE61B-EA95-4D17-B525-28C5987DB664.jpg
4241	C0BD80B4-558B-40CC-BBD2-68D5F8AA9AD1.jpg; 473C8376-2DB2-4EA7-8790-3EAF2B860EA6.jpg
4242	7AD8847D-5D26-490C-8F06-AABAF72C7ED5.jpg; 6524FFDA-6069-4B73-B5AB-E4262415361C.jpg
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4244	B42737C3-A8A5-4D40-B082-4064967616E1.jpg; 34E234F0-9E42-4629-B6F0-255EDF8F57A1.jpg
4246	77C146AC-9898-47B2-96D5-5B6641EA95F4.jpg; 63F93C74-CF89-463C-AC64-812645758FC1.jpg
4247	B1539903-2984-4B71-A88D-FAFF2E2CB1BC.jpg; B482F2E8-FCF1-4E72-8E0A-E5309B868251.jpg
4248	E1BC2785-64AB-4582-BC61-025DB424FC0F.jpg; 55BE3F7F-F7CD-4FF5-89B3-A2C267367A5A.jpg
4249	ABE6693C-E1C1-4EB5-AF83-DAC3CB54FC9A.jpg; A7F700B9-54DA-44CE-93CB-38C79BF146C6.jpg
4250	CE87A75D-41C9-49AC-AC9E-866509CD592A.jpg; 58C56891-8989-4566-BA00-9EAAAB6456193.jpg; AAA136F4-74B1-450F-915A-F47CA6FEDA35.jpg
4251	71F6AC5A-EC34-4F0E-8BD6-98A992F00E5B.jpg; 317194A7-FF92-4DA6-B288-AE6BC8A182F1.jpg; 4728529E-FB15-4BC9-82A2-E2D56E0F32F6.jpg
4252	4A6BCBDF-CE47-4A7B-BD2F-90E5EB91B9FA.jpg; BD600527-ED9E-4041-890C-4E5F758C586A.jpg
4253	ED47C570-5108-41BA-8B6C-231D7F3A5AED.jpg; A4C8E962-B59B-4E26-BAEB-578FF48D3064.jpg; E33AB24E-9411-4D24-9FA5-27A336DBDF70.jpg
4254	1717CDED-9687-4CCD-9379-350B41E714C9.jpg; 31A80DAD-7192-4E76-95FE-DF6B9C409B45.jpg
4255	860E3890-9D24-44EE-B2CE-1D452C7CAF9B.jpg; 1E99171B-435F-4DF7-AF73-E8869DAA31AE.jpg
4256	7B63BF41-8A91-4D1C-896B-594022D88333.jpg; FF2A93A7-D15C-47A1-95F9-42779E1DB150.jpg
4257	574F1248-0E90-42B2-91D7-EC11BF13CC83.jpg; CB7208D0-A766-4A22-825D-F76B12BCA001.jpg; 33E0F22E-C3F6-4E4E-BFA9-6997A53D1EF8.jpg
4258	A303EF01-3461-4BAB-8E98-E1ACAE5B362.jpg; D4052BF9-5C3F-4831-B232-632DAE69C597.jpg
4259	DE4B7D64-07CA-4BFE-88BA-CB9B3347F540~L0~001.heic; CC951AE9-CD02-4486-A4E8-786FD5DA0C50~L0~001.heic; 01FD44AB-8B93-4FA0-B8FA-AD553B719D07~L0~001.heic
4260	C6774371-06A5-487A-B9DC-30A84967D2E2.jpg; 0480D7EA-A6D3-48B5-A5B6-0257667F537F.jpg
4261	D1EE97FE-766C-4491-9B1A-682A0CD9AF55.jpg; 9C0F12B5-89E6-40D7-8A6F-CC196D756CDE.jpg
4262	4EDC0C11-9B7D-46EA-94FF-902A3377F6CA.jpg; A1051E6B-1E76-4DCB-8198-9230EBB67D0E.jpg
4263	

Context	Photograph Filename
4264	D232FCDC-558D-40E4-856D-1AC77D757CC7.jpg; ABA07778-9058-44A1-B391-6670A4979BCB.jpg
4265	0F7248F6-50B0-4559-A29E-56DF1A0B17C7.jpg; 4C135132-E47B-4936-ABE0-16FF200EFCAB.jpg
4266	9F4ED9D9-8CC2-4E0D-A25B-B9D8C0C4620E.jpg; FF24912F-08A0-4DFA-BE24-93D4CA12DC73.jpg
4267	AE6EAA17-7422-440C-9A87-A174FA00D817.jpg; C04D696A-671A-496C-A553-ECC5A664D945.jpg
4268	7123BCAC-6551-4512-8955-555334D08ED3.jpg; B32BB16D-874F-4F08-BF4F-B32655D8B619.jpg
4269	37D915EF-110F-4EE2-AD2C-88D482694EE0.jpg; CD180907-1630-4BAA-988E-C02F34BE4591.jpg
4270	2FC0C0B2-AB39-4B62-B0E7-9ADDF0996C24.jpg; 0FD24111-68E6-4B48-B841-F5FE6E3297D2.jpg
4271	4FD77D2F-7E34-418F-A519-462AB95FD932.jpg; EB0E075B-E02C-4986-96E0-E111DCD52329.jpg
4272	4EAA2EF4-339F-48DF-B2BD-39F92B42D863.jpg; 8C941508-7F14-4BC2-985E-579FAE1BC4F5.jpg
4273	C224F4CA-C712-45CB-B789-EE25559297AD.jpg; 4EF5AD68-8815-4E53-99F1-4CC7D39843C0.jpg; A3390131-89E9-4A14-BD82-9377ABD537CD.jpg
4274	CDB6A7EF-8651-4F26-96F1-9E11BE954B79.jpg; 601AD5C8-C509-4A97-A272-4B5523F33905.jpg; 8722FFA6-DC8C-4AFB-9CC1-B6D2E0A98586.jpg
4275	A27A7270-BA45-42FE-AE1D-DA16BD4E6AE4.jpg; 9622D0D1-389E-4BE2-BF38-0CA7A1BE8C63.jpg; 63994177-EDFE-4EA0-93BA-8DC3E284DDA2.jpg; 1A420531-A63A-4A9A-8047-F3EC25AD2440.jpg
4276	EC5B79B5-D7D1-45EF-8A80-4AA3C19F0D0A.jpg; 04E2F5E8-93C1-49A2-8B94-3EA4C6FA3929.jpg; 14448D6B-AFDA-4E44-8C4D-61D3EA6BD2C9.jpg
4277	B2380271-8F91-498C-9E0F-5AF3498E6FEA.jpg; 2DD9C342-2BA2-4E4F-B8F5-939860972364.jpg
4278	9DE15413-4179-4266-911A-1A972EE7A673.jpg; 1C897F64-A5B5-4445-B2A3-81DE01EF7514.jpg; 45D8A0BF-1F0A-4074-AE1E-DFEE6DB44D86.jpg; 694F2A21-26FA-47AE-BD37-9A270954D58D.jpg
4279	CCF878EC-3126-4972-B1BB-5C3C1314C39B.jpg; E1DC28BA-CBA4-4FE4-A348-4F26655B206F.jpg
4280	B0A3A269-B5D8-45DE-A219-F33B9DEB2A77.jpg; 8ABD1352-01D9-457C-BA31-AB7B876054C4.jpg
4281	B22CA932-26B3-4534-8D43-90EB1F67F418.jpg; 4314138F-6824-43D6-B8B8-FBF72E138FA7.jpg
4282	2C31FCE9-DDC4-436A-B563-6650EDE6629B.jpg
4283	35F37C82-63D3-40A7-9FE6-9B6907F08CBB.jpg
4284	699B90C1-4854-42D9-AC5B-5EA8004BA812.jpg; 99EA7602-9BBE-48BC-8795-F512537DEF0C.jpg
4285	23057D76-BC27-4DE1-85D7-D46026019D67.jpg; 79478411-D2D6-469E-84A7-2613C737BB69.jpg
4286	4976BBAA-AB8E-4A54-A410-4A36B6B1723D.jpg; F8F60CDD-9919-4883-BFA5-080E3F686440.jpg
4287	5A355705-EE53-4147-87AC-64928580DF2A.jpg; DC7BB163-2DA9-4849-9D5C-7B800CF4DF68.jpg
4288	83030E56-70B4-450F-BD8D-16A3AE67F743.jpg; 9AD6A77F-E4A6-4CE2-95FA-A7AB6B4F96BD.jpg
4289	D97CDA86-D961-4D4A-A0F7-9F55B4E3ACED.jpg; 59B2E9BA-EE30-488B-B0D0-23CDA63FB665.jpg
4290	C5606380-B30B-4216-98EB-1D8526E9BD60.jpg; 726791CA-5E48-4E24-8DC5-9E8DD86168FA.jpg
4291	FC192F30-B3B2-4BB0-9BB9-F04E3DFA5CF2.jpg; 32B0787A-308C-4317-9249-E33DFB1A6EDB.jpg
4292	FD54F6A7-01D2-4CA1-AD03-52976719D1A1.jpg; 5BE7D1FE-586F-4BDE-8FF3-ACFB1C63CBA7.jpg
4293	C3300427-BEE4-41A6-A724-2C8A3D38D262.jpg; 15303955-E994-4CF6-B019-29F90CCA815A.jpg
4294	
4295	633DC610-8D5F-426C-829C-8D21F38D4440.jpg; 87B4D31B-0883-421F-AA14-54A43695A1BE.jpg
4296	2FA92463-DEF1-4B10-91A7-AA7188771904.jpg; CCFEB608-C488-45DE-AA4A-A45D17A00903.jpg
4297	FF1E0EC6-0350-4DDF-9CF8-AF3602306933.jpg; 45526E3A-743A-4D62-BA3C-38F0074412D9.jpg
4298	673029F3-F808-4B78-B450-8D42AA827AA4.jpg; 948E0083-C456-41BA-94D4-A9082F32C94F.jpg
4299	E751A7A0-A3A4-4EED-A266-CAE9F1C3472B.jpg; 1F6F3F1C-B5B4-4B16-B21C-381B4C7BBFD5.jpg
4300	DBCABF90-3FCF-4C38-820B-56AE8ECCECAD~L0~001.heic; 86E518D1-F8C4-4A19-B322-71983B3D5DBF~L0~001.heic
4301	C9E84277-DBF9-48E7-8CED-FA2B2D044ADD.jpg; 9AB0E7BD-5976-45D5-92B1-FA5D360AC2B2.jpg
4302	84382536-2CAE-4BC5-B1C2-6F37E323AAEE.jpg; 7765A9BD-29E1-41ED-BB60-3B81059267ED.jpg
4303	9EFB6606-543C-4531-89EB-BF9F830C58A7.jpg; 60F7F106-DA7A-4BE3-BD3C-AEC6E3C58CCE.jpg
4304	2FBD0D99-DE24-42CD-8A71-C069B30F4573.jpg; 0A435898-7C10-4CE0-B79E-1587CF63E46C.jpg
4305	1A6D1D9C-2694-4926-B4CC-84235B3E933E.jpg; 4A74D9F1-AA88-44E7-8E9A-DF2DBE7B59F2.jpg
4306	024D3AF2-F120-4FFA-BA22-047AFE930AE7.jpg; 53107CED-42F7-473A-AD04-47F23B0A58C6.jpg

Context	Photograph Filename
4307	34365BEB-D455-46A7-8948-1192D90F2B15.jpg; 8A95FE58-088E-476A-9081-B7A0545AB04A.jpg
4308	519E3281-6E1D-4700-8A3B-FA226A4436C0.jpg; D6CEB5E0-2353-423F-8965-732F23AD5287.jpg
4309	E8F040C4-8B70-4E5C-81C3-0705419550EB.jpg; A738735B-6D66-405B-9F89-D920927023EB.jpg
4310	0EB5E309-1A02-4E40-83F4-956C0D065F03.jpg; 6ACF20E1-96B0-45E0-9629-45AF0F6E4883.jpg
4311	4F09FAA0-93CB-4307-90B7-84395BD165F9.jpg; 6A55F592-0E7B-473F-9DF5-F389371FFCC5.jpg
4312	E21010A6-AA10-43E1-BE08-CB8CF62AB4C6.jpg; 4B2EB9C0-8B86-4E8B-BD12-6B4F532288CC.jpg
4313	46D381A0-8C30-436B-955E-08796773EC7D.jpg
4314	5B8947BA-9CC8-4D05-B04E-4BAA05F2C5ED.jpg
4315	45A9E6CD-A952-432A-AAB0-C131B6EF8CE0.jpg
4316	C3744194-DBAE-411A-9E64-9FA60B6DFB06.jpg; 000FB2C8-0A31-4687-B723-6AC3FCA0A5C7.jpg
4318	27B5C8E3-F544-4DA4-85DD-BECC31F0A26F~L0~001.heic; 6E9C5B81-6403-4557-91EE-4A6A5D2B1F8C~L0~001.heic
4319	2C99688F-71D7-4F10-A92A-20200E78DD1C.jpg; 66A3FFF2-A0F7-4AD1-98A8-6426F001FE98.jpg
4320	92623F39-93D7-4483-9ECF-2E61E027CFD6.jpg; 7AE7EC05-4FD6-4647-BF4C-E33254C81F32.jpg
4321	70D88C21-46BE-4D1E-8C80-389FF423093B~L0~001.heic; 872C602C-7B64-4F00-B442-C4BD93143EA5~L0~001.heic

Appendix 3: Soils register (1)

Context	Texture	Compaction	Munsell Ref	Water Content	Sorting	Iron Panning	Other
4164	SILT CLAY	WEAK	10YR 3/3	WET	WELL SORTED		
4167	SILT	WEAK	5YR 2.5/1	MOIST	POORLY SORTED		
4168	SILT	WEAK	5YR 2.5/1	MOIST			
4171	SILT CLAY		7.5YR 5/8	MOIST	SORTED		
4172	SILT CLAY		10YR 2/1	MOIST	SORTED		
4173	SILT	LOOSE	2.5Y 2.5/1	MOIST	SORTED		
4175	CLAY	WEAK	2.5YR 4/6	MOIST	WELL SORTED		
4176	SILT CLAY	LOOSE	10YR 3/2	MOIST	POORLY SORTED		
4177	SILT	LOOSE	10YR 4/2	DRY	POORLY SORTED		
4179	SILT	LOOSE	19YR 4/3	DRY	WELL SORTED		
4180	SILT	FIRM	10YR 3/2	DRY	WELL SORTED		
4181	SILT CLAY	FIRM	10YR 3/2	MOIST	SORTED		
4183	SILT CLAY	FIRM	10YR 3/2	MOIST	SORTED		
4186	SILT CLAY	LOOSE	10YR 3/2	MOIST	POORLY SORTED		
4190	SILT	WEAK	10YR 3/2	WET	SORTED		
4191	SILT	WEAK	10YR 3/2	MOIST	SORTED		
4192	SILT CLAY	FIRM	7.5YR 3/1	MOIST	WELL SORTED		
4194	SILT	WEAK	7.5YR 6/4	MOIST	WELL SORTED		
4196	SILT	FIRM	2.5YR 4/8	MOIST	WELL SORTED		
4197	SILT CLAY	WEAK	10YR 3/2	WET	WELL SORTED		
4198	SILT	WEAK	19YR 3/2	MOIST	SORTED		
4200	SILT	LOOSE	7.5YR 3/2	MOIST	POORLY SORTED		
4201	SILT	LOOSE	10YR 3/1	MOIST	WELL SORTED		
4205	SILT	WEAK	10YR 3/2	MOIST	POORLY SORTED		
4206	SILT	WEAK	10YR 4/2	MOIST	WELL SORTED		

Context	Texture	Compaction	Munsell Ref	Water Content	Sorting	Iron Panning	Other
4208	SILT	WEAK	10YR 3/2	WET	POORLY SORTED		
4212	CLAY	FIRM	2.5YR 10/8	MOIST	WELL SORTED		
4213	SILT	WEAK	5YR 2.5/1	DRY	WELL SORTED		
4216	SILT	WEAK	5YR 2.5/1	MOIST	WELL SORTED		
4217	SILT	WEAK	7.5 YR 4/2	MOIST			
4218	SILT	FIRM	7.5YR 3/1	MOIST	WELL SORTED		
4220	SILT	FIRM	10 YR 3/1	MOIST	SORTED		
4221	SILT	WEAK	10YR 3/2	MOIST	WELL SORTED		
4223	CLAY	LOOSE		MOIST	SORTED		
4224	SAND	LOOSE		DRY	POORLY SORTED		
4225	SILT	FIRM	10YR 4/2	DRY	WELL SORTED		
4226	SILT	FIRM	7.5 YR 3/2	WET	POORLY SORTED		
4227	SILT CLAY	WEAK	7.5 YR 3/2	MOIST	WELL SORTED		
4228	CLAY	FIRM	10 YR 7/6	DRY	WELL SORTED		
4235		LOOSE		DRY	WELL SORTED		
4236	SILT	WEAK	2YR 5/1	DRY	SORTED		
4238	SILT	FIRM	10YR 3/2	MOIST	WELL SORTED		
4239	SILT	WEAK	2.5Y 3/2	MOIST	WELL SORTED		
4240	SILT CLAY	WEAK	10YR 3/1	MOIST	WELL SORTED		
4246	SILT CLAY LOAM	FIRM	10 YR 4/2	DRY	POORLY SORTED		
4247	SILT	FIRM	2.5 YR 6/3	DRY	SORTED		
4248	SILT CLAY LOAM	WEAK	10 YR 4/3	MOIST	POORLY SORTED		
4250	SILT	FIRM	10YR 4/2	DRY	SORTED		
4251	SILT	FIRM	7.5YR 3/2	DRY	SORTED		
4254	SILT CLAY	FIRM	2.5YR 3/2	MOIST	SORTED		
4255	SILT CLAY	FIRM	2.5YR 3/1	MOIST	SORTED		
4257	SILT CLAY	FIRM	10YR 3/2	MOIST	SORTED		
4258	SILT CLAY	FIRM	10YR 3/2	MOIST	SORTED		

Context	Texture	Compaction	Munsell Ref	Water Content	Sorting	Iron Panning	Other
4260	SILT CLAY	WEAK	7.5YR 3/2	MOIST	SORTED		
4261	SILT CLAY	FIRM	2.5Y 5/6	DRY	SORTED		
4263	SILT	FIRM	7.5YR 2.5/1	MOIST	POORLY SORTED		
4265	SILT	FIRM	10YR 4/2	MOIST	WELL SORTED		
4266	SILT	LOOSE	10YR 3/2	DRY	POORLY SORTED		
4268	SILT	FIRM	10YR 3/3	MOIST	WELL SORTED		
4272	SILT	WEAK	5YR 5/8	DRY	WELL SORTED		
4273	SILT	FIRM	10YR 2/1	MOIST	WELL SORTED		
4275	SILT CLAY	FIRM	2.5Y 2.5/1	MOIST	SORTED		
4276	SILT CLAY	FIRM	10YR 4/2	MOIST	WELL SORTED		
4276	SILT CLAY	FIRM	10YR 4/2	MOIST	WELL SORTED		
4277	SILT CLAY	FIRM	10YR 5/3	MOIST	SORTED		
4278	SILT CLAY	FIRM	10YR 3/1	MOIST	WELL SORTED		
4279	SILT	FIRM	10YR 4/2	MOIST	WELL SORTED		
4280	SILT	FIRM	7.564 2.5/1	MOIST	POORLY SORTED		
4282	SILT	FIRM	1064 5/6	MOIST	POORLY SORTED		
4283	SILT	WEAK	10YR 5/3	MOIST	WELL SORTED		
4285	SILT	FIRM	7.5YR 2.5/1	MOIST	SORTED		
4286	SILT	FIRM	2.5YR 5/6	MOIST	WELL SORTED		
4287	SILT	FIRM	10YR 4/3	MOIST	WELL SORTED		
4289	SILT CLAY LOAM	LOOSE	10YR 3/3	DRY	SORTED		SOME SMALL RODENT/ SMALL MAMMAL BONE
4291	SILT CLAY	FIRM	7.5YR 4/3	MOIST	WELL SORTED		
4292	SILT	FIRM	10YR 3/2	MOIST	WELL SORTED		
4297	SILT	WEAK	7.5YR 4/2	MOIST	WELL SORTED		
4299	SILT	FIRM	5YR 3/1	WET	WELL SORTED		
4300	SILT	LOOSE		MOIST	WELL SORTED		
4301	SILT	FIRM	5YR 2.5/1	WET	WELL SORTED		LENSES OF THE SAME MATERIAL BUT BURNT 2.5YR 4/4
4302	SILT	FIRM	10YR 3/1	MOIST	WELL SORTED		

Context	Texture	Compaction	Munsell Ref	Water Content	Sorting	Iron Panning	Other
4303	SILT	FIRM	5YR 2.5/1	MOIST			
4309	SILT CLAY	FIRM	7.5YR 4/3	MOIST	WELL SORTED		
4310	SILT	FIRM	10YR 3/2	MOIST	POORLY SORTED		VERY PATCHY CONTEXT COLOR DESCRIBED ACCOUNTS FOR APPROXIMATELY 60% OF THE CONTEXT. LARGEST PATCH 10YR 5/6 30X40CM ISH. YELLOW CLAY PATCHES 2.5Y 7/6
4312	SILT	FIRM	10YR 3/2	MOIST	SORTED		
4313	SILT CLAY	WEAK	10YR 3/1	MOIST	WELL SORTED		
4317	SILT CLAY	FIRM	10YR 7/4	MOIST	WELL SORTED		
4318	CLAY	WEAK	2.5Y 6/6	DRY	WELL SORTED		
4320	SILT	WEAK	10YR 3/2	DRY	POORLY SORTED		
4321	CLAY	FIRM	10YR 6/7	DRY	WELL SORTED		

Appendix 4: Soils register (2)

CONTEXT	UNBURNT STONES			BURNT STONES			MOTTLES				CARBON		SHELL MIDDEN	
	%	SIZE	SHAPE	%	SIZE	SHAPE	%	SIZE	COLOUR	BOUNDARIES	%	SIZE	%	TYPE
4164														
4167							5	2CM	10YR 7/8 5YR 6/8	SHARP	5	2CM		
4168	7	5-10CM	ANGULAR FLAT											
4171				5	2-4CM	SUB-ANGULAR / ANGULAR					<1	2-4MM		
4172				<1	2-5CM	ANGULAR / SUBANGULAR					10	2-5MM		
4173														
4175														
4176	17	2-9CM	ANGULAR / SHILLET											
4177	95	1 - 30CM	ANGULAR ROUNDED											
4179							3	2-3 CM	10YR 7/8	SHARP				
4180											7		1	LIMPET
4181	15	2-5CM	ANGULAR / SHILLET								7	2CM		
4183	1	25CM	ROUNDED								3			
4186	20	10-40CM	ROUNDED / SUB- ANGULAR				2	2-4CM	10YR 6/6	CLEAR	1			
4190	5	20CM	ANGULAR				7	15CM	5YR 5/6	MERGING				
4191	2	5CM	SUB- ANGULAR				40	2-5CM	10YR 6/6 + 2.5YR 4/6	SHARP	5			
4192											2	3cm		
4194							25	1-3CM	7.5YR 5/1	DIFFUSE	10	1-4cm		
4196														
4197											1	3cm		
4198	40	30-35CM	SUB- ANGULAR								1	2cm		
4200	45	5-48CM	ANGULAR											
4201	15	20-25CM	ROUNDED AND SUB ANGULAR											
4205	20	1 LARGE 70CM. 20- 30CM									1	2cm		

CONTEXT	UNBURNT STONES			BURNT STONES			MOTTLES				CARBON		SHELL MIDDEN	
	%	SIZE	SHAPE	%	SIZE	SHAPE	%	SIZE	COLOUR	BOUNDARIES	%	SIZE	%	TYPE
4206											5	1cm		
4208	7	5-7 CM	ANGULAR	3%	5cm	ANGULAR					10%	10cm		
4212							7	10	7.5YR 7/6 7.5YR 8/2					
4213							1	1CM		MERGING	12	2-10cm	1	Limpet
4216														
4217														
4218	3	5CM	ANGULAR	2%	5cm	ANGULAR					2%	2cm		
4220	1	4CM	ANGULAR				10	20CM	7.5YR 5/6	SHARP	5%	3cm		
4221	15	15CM	SUB- ANGULAR								3%	1cm		
4223														
4224	50	1-20CM	ROUNDED											
4225														
4226				30	20cm/ 30cm	SUB- ROUNDED	15	30CM	7.5 YR 5/6	MERGING	5	25cm		
4227	5	2CM	ROUNDED				7	5CM	7.5 YR 5/4	MERGING	3	1cm		
4228											3	3cm		
4235														
4236	50	25CM	SUB ANGULAR								3	2cm		
4238	2	5CM	ANGULAR				3	10CM	10YR 6/2	MERGING	7	1cm		
4239							1	2CM	5YR 5/8	SHARP	10	2cm		
4240	5	15CM	ANGULAR				10	10-15 CM	7.5YR 5/6	SHARP				
4246	20	0.5-3 CM	SUB- ANGULAR / SUB- ROUNDED				1	1-3 CM	10 YR 6/6	CLEAR	<1	0.5-2 cm		
4247	80	MEDIUM	ANGULAR											
4248	10	0.3-1 CM	ROUNDED				2	0.3-1CM	10 YR 5/8	MERGING				
4250							10	MEDIUM	BURNT ORANGE CLAY	SHARP	15	Fine		
4251							30	MEDIUM	ORANGE	SHARP	40	Medium		

	UNBURNT STONES			BURNT STONES			MOTTLES				CARBON		SHELL MIDDEN	
CONTEXT	%	SIZE	SHAPE	%	SIZE	SHAPE	%	SIZE	COLOUR	BOUNDARIES	%	SIZE	%	TYPE
4254	5	SMALL/MEDIUM	SUB ANGULAR								10	2cm		
4255											10	Small		
4257	50	MEDIUM					10	SMALL	YELLOW	BLURRED	20	Small to medium		
4258	10	MEDIUM									30	Small		
4260							40	MEDIUM	ORANGE AND YELLOW	BLURRED	5	Small		
4261	9	LARGE	SUB ANGULAR											
4263	40	10-40CM	ANGULAR				15	15	10YR 7/3	SHARP				
4265	1	3CM	ROUNDED								10	4cm		
4266	60	2-10CM	ANGULAR											
4268	1	5CM	ANGULAR	<1	4cm	Angular					2	1cm		
4272							4	15CM	10YR 5/8	DIFFUSE	1	15cm		
4273											5	1cm		
4275	10	10CM	ANGULAR								3	1cm	1	
4276	30	1-2CM	ROUNDED				5	5MM	10YR 5/6	BLURRED	3	5mm		
4276	30	1-2 CM	ROUNDED PEBBLE				5	5MM	10YR 5/6	BLURRED	3	5mm		
4277	30	10CM	ANGULAR											
4278	10		ANGULAR				3	1CM	10YR 6/4	BLURRED	20	2cm		
4279	2	10CM	SUB ANGULAR				20	6-12CM	10 YR 6/2	DIFFUSE	12	1-3cm		
4280	40	10-40CM	ANGULAR				15	30CM	10YR 7/3	SHARP				
4282	3	5CM					50	5-50CM	5YR 5/8	SHARP	3	3cm		
4283											7	2cm		
4285	3	3-5CM	ANGULAR	5	5cm	Sub angular								
4286											1	1cm		
4287	15	20CM	SUB ANGULAR											
4289	10	1-2CM	ANGULAR, PLATY											
4291	3	4CM	ANGULAR								1	1cm		

	UNBURNT STONES			BURNT STONES			MOTTLES				CARBON		SHELL MIDDEN	
CONTEXT	%	SIZE	SHAPE	%	SIZE	SHAPE	%	SIZE	COLOUR	BOUNDARIES	%	SIZE	%	TYPE
4292	2	5CM	ANGULAR				10	3CM	5YR 5/8		5			
4297	5	15CM	ANGULAR											
4299	10	3-5CM	ANGULAR				3	4CM	2.5Y 6/6	SHARP				
4300	20	3-5CM	ANGULAR											
4301														
4302	10	10CM	ANGULAR				1	2CM	7.5YR 7/4	DIFFUSE				
4303							40	20CM	2.5YR 6/4	SHARP				
4309											1	3cm		
4310	3	15CM	ANGULAR	3	15cm	Sub angular								
4312	5	10-25CM	ANGULAR				40	15CM	2.5YR 4/8 AND 10YR 4/3	MERGING	3	3cm		
4313	1	3CM	ANGULAR				15	4CM	10YR 7/6	SHARP	1	2cm		
4317											1	1cm		
4318	7	1CM	Rounded											
4320	25	2-60CM									5	4cm	1	Limpet
4321				5	3-5cm	Angular								

Appendix 5: Artefact register

NFS – No find spot

SF	Context	Unstrat	NFS	Area	Material	Description
7601	4148	No	No	E	POTTERY	PH - 1 body sherd
7602	4149	No	No	E	STONE	Notched orthostat, 3 pieces
7603	4152	No	No	E	POTTERY	PH - 1 frag
7604	4152	No	No	E	STONE	Quern, conjoins with SF7740
7605	4152	No	No	E	STONE	Possible quern frag
7606	4152	No	No	E	STONE	Hammerstone / grinding stone
7607	4151	No	No	E	POTTERY	PH - 1 frag, 1 rim
7608	4152	No	Yes	E	STONE	Worked stone?
7609	3944	No	No	E	POTTERY	PH - 1 base, possibly related to SF7613
7610	3944	No	No	E	POTTERY	PH - 1 body sherd
7611	4115	No	No	E	POTTERY	PH - 1 frag
7612	4115	No	No	E	POTTERY	PH - 2 base, 1 frag, bases conjoining
7613	3944	No	No	E	POTTERY	PH - 3 body sherds, 9 frags, 2 bases, possibly related to SF7609, 1 body sherd possibly decorated?
7614	4152	No	No	E	POTTERY	PH - 1 rim
7615	4152	No	No	E	POTTERY	PH - 1 frag
7616	4155	No	No	E	POTTERY	PH - 1 rim
7617	3077	No	Yes	E	IRON (FE)	Amorphous iron fragment - from a tray found bone bag from SWR14
7618	4152	No	No	E	POTTERY	PH - 1 frag
7619	4121	No	No	E	STONE	Orthostat with possibly carving, red substance in carved area
7620	4156	No	No	E	POTTERY	PH - 1 body sherd, 3 frags
7621	4094	No	No	E	STONE	Stone, originally labelled as pot
7622	4067	No	No	E	STONE	Pivot stone
7623	4156	No	No	E	POTTERY	PH - 1 rim
7624	4027	No	No	E	POTTERY	PH - 1 frag
7625	4159	No	No	E	POTTERY	PH - 3 frags
7626	4159	No	No	E	POTTERY	PH - 1 rim, 2 body sherds, 12 frags
7627	4159	No	No	E	POTTERY	PH - 1 rim, 1 body sherd, 3 frags
7628	4162	No	No	E	POTTERY	PH - 1 frag
7629	4156	No	No	E	POTTERY	PH - 1 body sherd
7630	4156	No	No	E	POTTERY	PH - 1 frag
7631	4156	No	No	E	POTTERY	PH - 1 rim
7632	4156	No	No	E	POTTERY	PH - 1 frag
7633	4166	No	No	E	POTTERY	PH - 1 body sherd
7634	4156	No	No	E	STONE	Worked stone, hammer stone?
7635	4156	No	No	E	POTTERY	PH - 1 frag
7636	4156	No	No	E	POTTERY	PH - 3 frags, conjoining
7637	4163	No	No	E	GLASS	1 small green glass fragment
7638	4163	No	No	E	SLAG	1 small amorphous lump, also possibly pot
7639	4163	No	No	E	POTTERY	PH - 1 frag

SF	Context	Unstrat	NFS	Area	Material	Description
7640	4163	No	No	E	SLAG	1 small amorphous lump
7641	4163	No	No	E	SLAG	1 small amorphous lump
7642	4163	No	No	E	SLAG	1 small amorphous lump
7643	4163	No	No	E	STONE	Worked stone? Strike - a - light?
7644	4163	No	No	E	STONE	Worked stone
7645	4163	No	No	E	POTTERY	PH - 1 body sherd
7646	4163	No	No	E	SLAG	Slag or fired clay, 1 small amorphous lump
7647	4117	No	No	E	POTTERY	PH - 1 body sherd, 4 frags
7648	4117	No	No	E	STONE	Quern stone fragment
7649	4060	No	No	E	FIRED CLAY	Fired clay, 1 amorphous lump
7650	4060	No	No	E	FIRED CLAY, SLAG	Furnace lining, 1 large, 2 small amorphous lumps
7651	4060	No	No	E	FIRED CLAY	13 small amorphous lumps fired clay
7652	4060	No	No	E	FIRED CLAY	Possibly part of tuyere
7653	4060	No	No	E	SLAG	Slag, 3 small amorphous lumps
7654	4060	No	No	E	SLAG, FIRED CLAY	Slaggy furnace lining, 1 large amorphous lump
7655	4060	No	No	E	SLAG	2 medium amorphous lumps
7656	4060	No	No	E	FIRED CLAY	Fired clay, 8 small amorphous lumps
7657	4060	No	No	E	POTTERY	PH - 1 body sherd, 1 frag
7658	4060	No	No	E	SLAG	1 small amorphous lump
7659	4173	No	No	E	SLAG	Slag, 1 medium amorphous lump
7660	4173	No	No	E	STONE	Worked stone
7661	4156	No	Yes	E	POTTERY	PH - 1 body sherd, from sieve
7662	4156	No	No	E	STONE	Worked stone
7663	4156	No	Yes	E	POTTERY	PH - 2 frags from sieve
7664	4060	No	No	E	POTTERY	PH - 1 rim
7665	4060	No	No	E	FIRED CLAY	Fired clay - 3 small amorphous lumps
7666	4060	No	No	E	SLAG	Fe rich slag, 1 small amorphous lump
7667	4173	No	No	E	FIRED CLAY	Furnace lining, 1 small amorphous lump
7668	4177	No	No	E	BONE	Burnt whalebone, Blue plastic contamination
7669	4060	No	No	E	STONE	Worked stone disc, pot lid?
7670	4175	No	No	E	POTTERY	PH - 1 frag
7671	4757	No	No	E	POTTERY	PH - 1 frag
7672	4157	No	No	E	POTTERY	PH - 1 base?, 3 body sherds, 1 frag
7673	4180	No	No	E	POTTERY	PH - 1 body sherd, 1 frag, conjoining
7674	4152	No	No	E	POTTERY	PH - 1 body sherd
7675	4152	No	No	E	POTTERY	PH - 1 body sherd
7676	4191	No	No	E	POTTERY	PH - 1 body sherd
7677	4152	No	No	E	POTTERY	PH - 2 body sherds
7678	4191	No	No	E	POTTERY	PH - 3 frags
7679	3888	No	No	E	STONE	Worked stone
7680	4087	No	No	E	POTTERY	PH - 8 frags
7681	4087	No	No	E	POTTERY	PH - 2 rims
7682	4087	No	No	E	STONE	Possible whetstone/hone stone

SF	Context	Unstrat	NFS	Area	Material	Description
7683	4152	No	No	E	POTTERY	PH - 1 frag
7684	3944	No	Yes	E	POTTERY	PH - 1 frag from sieve
7685	4152	No	No	E	POTTERY	PH - 1 frag
7686	4152	No	No	E	POTTERY	PH - 1 frag
7687	4152	No	No	E	POTTERY	PH - 1 body sherd
7688	4152	No	No	E	POTTERY	PH - 1 frag
7689	4152	No	No	E	FIRE CLAY	1 small amorphous lump
7690	4152	No	No	E	IRON (FE)	? Iron object
7691	4152	No	No	E	POTTERY	PH - 1 frag
7692	4167	No	No	E	STONE	Hammerstone
7693	4152	No	No	E	BONE	Worked antler
7694	4166	No	No	E	POTTERY	PH - 1 frag
7695	4113	No	No	E	STONE	Hammerstone
7696	4060	No	No	E	FIRE CLAY	Fired clay, 2 amorphous lumps, conjoining, base?
7697	4050	No	No	E	FIRE CLAY	Fired clay, 1 amorphous lump
7698	4057	No	No	E	FIRE CLAY	Furnace lining, 1 large amorphous lump
7699	4057	No	No	E	FIRE CLAY	Furnace lining, 1 large amorphous lump
7700	4057	No	No	E	FIRE CLAY	Furnace lining, 1 medium amorphous lump
7701	4157	No	Yes	E	BONE	Worked antler, 2 conjoining fragments, conjoins with SF7702, from tray
7702	4027	No	Yes	E	BONE	Worked antler, conjoins with SF7701, from tray
7703		Yes	Yes	E	POTTERY	PH? - 2 frags, from tray found bone bag from SWR14
7704	4057	No	No	E	FIRE CLAY	Furnace lining, 1 large, 2 medium, 1 small amorphous lumps - 2 conjoining
7705	4168	No	No	E	SLAG	Slag, 1 Medium amorphous lump
7706	4168	No	No	E	STONE	Unworked stone, originally labelled as pot
7707	4168	No	No	E	FIRE CLAY	1 small amorphous lump
7708	4152	No	No	E	IRON (FE)	? Iron object
7709	4152	No	No	E	POTTERY	PH - 1 frag
7710	4113	No	No	E	POTTERY	PH - 1 body, 4 frags, frags conjoin
7711	4113	No	No	E	POTTERY	PH - 3 body sherds
7712	4152	No	No	E	POTTERY	PH - 1 body sherd
7713	4152	No	No	E	STONE	Unworked stone, originally labelled as pot
7714	4166	No	No	E	FIRE CLAY	1 small amorphous lump
7715	4172	No	No	E	OTHER	1 large lump of charcoal, 1 small lump
7716	4152	No	No	E	POTTERY	PH - 1 rim
7717	4166	No	No	E	POTTERY	PH - 1 frag
7718	4166	No	No	E	POTTERY	PH - 1 frag
7719	4152	No	No	E	POTTERY	PH - 1 body sherd
7720	4176	No	No	E	POTTERY	PH - 1 frag
7721	4087	No	No	E	POTTERY	PH - 2 frags
7722	4087	No	No	E	POTTERY	PH - 1 frag
7723	4087	No	No	E	POTTERY	PH - 1 rim
7724	4181	No	No	E	STONE	Worked stone?
7725	3889	No	No	E	STONE	Worked stone?

SF	Context	Unstrat	NFS	Area	Material	Description
7726	3889	No	No	E	POTTERY	PH - 1 frag
7727	3889	No	No	E	POTTERY	PH - 1 frag
7728	3889	No	No	E	POTTERY	PH - 1 body sherd, 1 rim
7729	3889	No	No	E	POTTERY	PH - 1 body sherd
7730	4200	No	No	E	POTTERY	PH - 1 body sherd, 1 frag
7731	3801	No	No	E	POTTERY	PH - 1 body sherd
7732	4060	No	Yes	E	SLAG	Slag, 1 amorphous lump from sieve
7733	4198	No	No	E	POTTERY	PH - 1 body sherd
7734	4200	No	No	E	POTTERY	PH - 1 base, 7 frags
7735	4198	No	No	E	POTTERY	PH - 2 frags conjoining
7736	4218	No	No	E	SLAG	Possible slag? Tiny amorphous lump
7737	4200	No	No	E	POTTERY	PH - 1 body sherd
7738	4200	No	No	E	POTTERY	PH - 1 body sherd
7739	4067	No	No	E	STONE	Whetstone
7740	4200	No	No	E	STONE	Quern frag, conjoins with SF 7604
7741	4200	No	No	E	STONE	Worked stone?
7742	4198	No	No	E	POTTERY	PH - 2 frags conjoining
7743	4200	No	No	E	POTTERY	PH - 1 body sherd, 4 frags
7744	4198	No	No	E	POTTERY	PH - 1 rim
7745	4152	No	Yes	E	FIRED CLAY	1 small amorphous lump fired clay from sieve
7746	4206	No	No	E	POTTERY	PH - 1 frag, rim?
7747	4201	No	No	E	SLAG	Slag - 1 small amorphous lump
7748	4102	No	No	E	SLAG	Slag - 1 small amorphous lump
7749	4201	No	No	E	POTTERY	PH - 1 rim from near furnace
7750	4201	No	No	E	POTTERY	PH - 1 frag
7751	4173	No	No	E	POTTERY	PH - 1 frag
7752	4173	No	No	E	POTTERY	PH - 1 frag
7753	4198	No	No	E	STONE	Unusual stone
7754	4198	No	No	E	STONE	Possible mortar?
7755	4207	No	No	E	POTTERY	PH - 1 body sherd
7756	4152	No	Yes	E	POTTERY	PH - 1 frag
7757	4176	No	No	E	STONE	Worked stone disc fragment
7758	4108	No	No	E	POTTERY	PH - 1 frag
7759	4108	No	No	E	POTTERY	PH - 1 frag
7760	4108	No	No	E	POTTERY	PH - 1 frag - base?
7761	4108	No	No	E	POTTERY	PH - 1 frag
7762	4108	No	No	E	POTTERY	PH - 1 frag
7763	4102	No	No	E	POTTERY	PH - 2 frags, maybe one is a base
7764	4180	No	No	E	POTTERY	PH - 1 base
7765	4102	No	No	E	POTTERY	PH - 2 rims
7766	4180	No	No	E	POTTERY	PH - 1 base?
7767		Yes	Yes	E	POTTERY	PH - 1 frag
7768	4181	No	No	E	POTTERY	PH - 1 frag - base?

SF	Context	Unstrat	NFS	Area	Material	Description
7769	4152	No	No	E	POTTERY	PH - 1 body sherd
7770	4152	No	No	E	POTTERY	PH - 1 body sherd
7771	4161	No	No	E	STONE	Stone disc
7772	4161	No	No	E	STONE	Honestone/whetstone
7773	4161	No	Yes	E	CU ALLOY	Possible cu alloy ring
7774	4087	No	No	E	STONE	Worked stone, possible mould
7775	4221	No	No	E	POTTERY	PH - 1 frag
7776	4168	No	No	E	OTHER	Charcoal- 1 small amorphous lump for Radiocarbon dating
7777	4054	No	No	E	SLAG	Slag - 1 medium, 2 small amorphous lumps
7778	4057	No	No	E	SLAG	Furnace lining - 2 amorphous lumps, conjoining
7779	4068	No	No	E	POTTERY	PH - 1 body sherd
7780	4180	No	No	E	POTTERY	PH - 1 body sherd
7781	4057	No	No	E	SLAG, FIRED CLAY	Furnace lining - 3 medium, 4 small amorphous lumps
7782	4057	No	No	E	IRON (FE)	Metal bits/residue
7783	4054	No	No	E	POTTERY	PH - 1 frag
7784	4207	No	No	E	POTTERY	PH - 1 body sherd
7785	4207	No	No	E	POTTERY	PH - 1 body sherd
7786	4224	No	No	E	STONE	Quern fragment
7787	4054	No	No	E	SLAG	Slag - 1 medium amorphous lump
7788	4218	No	No	E	POTTERY	PH - 1 frag
7789	4218	No	No	E	POTTERY	PH - 1 frag
7790	4218	No	No	E	POTTERY	PH - 3 frags
7791	4167	No	No	E	SLAG	Slag - 1 small amorphous lump
7792	4117	No	Yes	E	STONE	Worked stone - from sieve
7793	3095	No	Yes	E	IRON (FE)	Possible iron object, from SWR14 tray found bone bag
7794	3899	No	No	E	STONE	Worked stone, orthostat
7795	4060	No	Yes	E	BONE	Human Occipital bone - posterior foramen magnum margin, possibly juvenile, from sieve
7796	3103	No	Yes	E	POTTERY	PH - 1 base? From SWR14 tray found bone bag
7797	4180	No	Yes	E	POTTERY	PH - 1 rim, from sieve
7798	4161	No	Yes	E	STONE	Rubbing stone from sieve
7799	4152	No	Yes	E	POTTERY	PH - 1 body sherd, 7 frags, from sieve
7800	4180	No	Yes	E	POTTERY	PH - 1 base? From sieve
7801	3077	No	Yes	E	BONE	Worked? antler from SWR14 tray found bone bag
7802	4190	No	Yes	E	STONE	Worked stone from sieve
7803	3889	No	No	E	CU ALLOY	Copper alloy belt clip
7804	3889	No	Yes	E	POTTERY	PH - 1 frag from sieve
7805	4152	No	Yes	E	POTTERY	PH - 1 frag from sieve
7806	4175	No	Yes	E	FIRED CLAY	Fired clay, 23 frags from sieve
7807	3077	No	Yes	E	POTTERY	PH - 2 frags, from SWR14 tray found bone bag
7808	4110	No	No	E	POTTERY	PH - 1 body sherd
7809	4110	No	No	E	POTTERY	Crucible frag
7810	4206	No	No	E	POTTERY	PH - 3 body sherds, 2 frags, 2 conjoining
7811	4206	No	No	E	POTTERY	PH - 3 frags

SF	Context	Unstrat	NFS	Area	Material	Description
7812	4206	No	No	E	POTTERY	PH - 1 frag
7813	4206	No	No	E	POTTERY	PH - 1 frag
7814	4180	No	No	E	POTTERY	PH - 1 rim
7815	4218	No	No	E	POTTERY	PH - 1 base/rim, 5 frags
7816	4218	No	No	E	STONE	Hammerstone/worked stone
7817	4218	No	No	E	STONE	Hammerstone
7818	4218	No	No	E	POTTERY	PH - 1 frag
7819	4218	No	No	E	POTTERY	PH - 1 rim, 1 base?, 1 body sherd, 1 frag
7820	4060	No	Yes	E	FIRED CLAY	2 small amorphous lumps of fired clay from sieve
7821	4060	No	Yes	E	SLAG	2 small amorphous lumps of slag from sieve
7822	4057	No	No	E	SLAG	Slagged furnace lining
7823	4218	No	No	E	POTTERY	PH - 2 frags
7824	4218	No	No	E	POTTERY	PH - 1 body sherd
7825	4057	No	No	E	SLAG	Slagged furnace lining
7826	4218	No	No	E	POTTERY	PH - 2 frags
7827	4218	No	No	E	POTTERY	PH - 1 frag
7828	4218	No	No	E	POTTERY	PH - 1 frag
7829	4218	No	No	E	POTTERY	PH - 1 body sherd
7830	4057	No	No	E	SLAG	Slagged furnace lining
7831	4218	No	No	E	POTTERY	PH - 2 frags
7832	4218	No	No	E	POTTERY	PH - 1 body sherd, 4 frags
7833	4058	No	No	E	STONE	Furnace stone - L38cm, W19cm, D12cm
7834	4058	No	No	E	STONE	Furnace stone - L31cm, W22cm, D9cm
7835	4058	No	No	E	STONE	Furnace stone 2 fragments, conjoining - L23.5cm, W18.5cm, D9cm
7836	4218	No	No	E	POTTERY	PH - 4 frags
7837	4221	No	No	E	POTTERY	PH - 1 frag
7838	4221	No	No	E	STONE	Worked stone disc
7839		Yes	No	E	POTTERY	PH - 1 frag
7840	4218	No	No	E	POTTERY	PH - 1 body sherd, 1 frag
7841	4218	No	No	E	POTTERY	PH - 1 base, 11 frags
7842	4218	No	No	E	POTTERY	PH - 1 frag
7843	4218	No	No	E	POTTERY	PH - 1 frag
7844	4218	No	No	E	POTTERY	PH - 2 bases, 3 body sherds, 11 frags, possibly related to SF7986
7845	4218	No	No	E	POTTERY	PH - 3 frags
7846	4218	No	No	E	STONE	Worked stone
7847	4218	No	No	E	SLAG	Slag, 1 small amorphous lump
7848	4200	No	No	E	POTTERY	PH - 1 body sherd
7849	4150	No	No	E	STONE	Hammerstone
7850	4200	No	No	E	POTTERY	PH - 2 frags
7851	4200	No	No	E	POTTERY	PH - 1 frag
7852	4200	No	No	E	POTTERY	PH - 1 frag
7853	4205	No	No	E	POTTERY	PH - 13 frags
7854	4150	No	No	E	STONE	Hammerstone

SF	Context	Unstrat	NFS	Area	Material	Description
7855	4200	No	No	E	POTTERY	PH - 4 body sherds, 3 frags
7856	4200	No	No	E	POTTERY	PH - 1 body sherd
7857	4200	No	No	E	POTTERY	PH - 2 frags
7858	4110	No	No	E	POTTERY	PH - 1 base, 3 frags
7859	4200	No	No	E	POTTERY	PH - 1 body sherd
7860	4068	No	Yes	E	POTTERY	PH - 1 frag from tray
7861	4060	No	Yes	E	SLAG	Slag, 7 amorphous lumps from sieve
7862	4060	No	Yes	E	POTTERY, FIRED CLAY	PH - 1 frag from sieve, possibly fired clay
7863	4175	No	Yes	E	OTHER	Charcoal, from tray
7864	4060	No	Yes	E	FIRED CLAY	Fired clay/furnace lining from sieve, 3 frags
7865	4060	No	Yes	E	SLAG	1 small amorphous lump of slag
7866	4218	No	Yes	E	POTTERY	PH - 2 frags from sieve
7868	4152	No	Yes	E	SLAG	Slag, 1 amorphous lumps from sieve
7869	3110	No	Yes	E	BONE	Worked antler, 13 frags from SWR16 tray found bone bag
7870	4117	No	Yes	E	FIRED CLAY	Fired clay, 1 small amorphous lump from sieve
7871	4180	No	Yes	E	BONE	Worked antler, 5 large frags, 12 small degraded frags, from tray
7872	4206	No	Yes	E	SLAG	Slag, 1 small amorphous lump from sieve
7873	4110	No	Yes	E	POTTERY	PH - 1 frag from sieve
7874	4087	No	Yes	E	POTTERY	PH - 1 body sherd, 1 rim, 3 frags from sieve
7875	4200	No	Yes	E	POTTERY	PH - 5 frags from sieve
7876	4207	No	No	E	POTTERY	PH - 2 body sherds, 2 frags
7877	4207	No	No	E	POTTERY	PH - 1 base
7878	4059	No	No	E	SLAG, FIRED CLAY	2 medium amorphous lumps slag/fired clay/furnace lining
7879	4054	No	No	E	SLAG	1 small amorphous lump slag
7880	4054	No	No	E	SLAG	Furnace lining - 4 small amorphous lumps, slag?
7881	4054	No	No	E	SLAG	1 small amorphous lump metal/slag
7882	4054	No	No	E	SLAG, FIRED CLAY	Furnace lining - 1 medium amorphous lump fired clay/slag
7883	4054	No	No	E	IRON (FE)	5 tiny metal bits
7884	4058	No	No	E	STONE	Furnace stone 2 frags conjoining - L22cm, W9cm, D6cm, associated with SF8274 furnace lining/debris
7885	4057	No	No	E	SLAG	Furnace lining, slag 1 small amorphous lump
7886	4057	No	No	E	SLAG, FIRED CLAY, OTHER	Crucible frag? Slag? 2 frags
7887	4054	No	No	E	SLAG	Slag lining - 2 small amorphous lumps
7888	4060	No	No	E	IRON (FE), CU ALLOY, SLAG	Metal frag?
7889	4058	No	No	E	STONE	Furnace stone - L25cm, W18cm, D7.5cm
7890	4057	No	No	E	SLAG	Vitrified slag lining
7891	4207	No	Yes	E	POTTERY	PH - 1 body sherd, 1 frag from spoil heap
7892	3303	No	Yes	E	BONE	Worked? antler, 3 frags, from SWR16 tray found bone bag
7893	4152	No	Yes	E	STONE	Unusual stone from tray
7894	4127	No	No	E	OTHER	Charcoal close to furnace
7895	4190	No	Yes	E	SLAG, IRON (FE), OTHER	Slag/iron object? 1 small amorphous lump from sieve
7896	4167	No	No	E	POTTERY	PH - 1 rim
7897	4223	No	No	E	SLAG	Slag - 1 small amorphous lump
7898	4223	No	No	E	SLAG	Slag - 18 frags

SF	Context	Unstrat	NFS	Area	Material	Description
7899	4223	No	No	E	STONE	Pebble from furnace
7900	4167	No	No	E	SLAG	Slag - 1 small amorphous lump
7901	3322	No	Yes	E	BONE	Antler from SWR16 tray found bone bag, 4 frags
7902	3258	No	Yes	E	BONE	Antler, 2 frags, from SWR16 tray found bone bag
7903	3258	No	Yes	E	POTTERY	PH - 1 frag, from SWR16 tray found bone bag
7904	4054	No	No	E	POTTERY	PH - 1 rim
7905	4167	No	No	E	OTHER	Charcoal
7906	4054	No	No	E	SLAG	Slag - 1 small amorphous lump
7907	4167	No	No	E	IRON (FE)	Fe object
7908	4167	No	No	E	SLAG	Fe rich slag - 1 small amorphous lump
7909	4167	No	No	E	SLAG	Fe rich slag - 1 small amorphous lump
7910	4167	No	No	E	SLAG	Fe rich slag - 1 small amorphous lump
7911	4054	No	No	E	SLAG	Slag - 1 small amorphous lump
7912	4167	No	No	E	SLAG	Fe rich slag - 1 small amorphous lump
7913	4167	No	No	E	SLAG	Fe rich slag - 1 medium amorphous lump
7914	4054	No	No	E	POTTERY	PH - 1 rim?
7915	4167	No	No	E	POTTERY	PH - 1 frag
7916	4167	No	No	E	SLAG	Fe rich slag - 1 small amorphous lump
7917	4054	No	No	E	SLAG	Slag - 1 small amorphous lump
7918	4167	No	No	E	SLAG	Fe rich slag - 1 small amorphous lump
7919	4167	No	No	E	SLAG	Fe rich slag - 1 small amorphous lump
7920	4225	No	No	E	SLAG	Hammerscale?
7921	4225	No	No	E	SLAG	Spheroidal slag
7922	4054	No	No	E	IRON (FE)	Fe rich lump
7923	4220	No	No	E	POTTERY	PH - 2 frags?
7924	4236	No	No	E	STONE	Hone stone
7925	4236	No	No	E	STONE	Hammerstone
7926	4236	No	No	E	STONE	Hammerstone
7927	4236	No	No	E	POTTERY	PH - 1 body sherd
7928	4236	No	No	E	STONE	Hammerstone
7929	4229	No	No	E	STONE	Anvil stone by furnace, in situ
7930	4220	No	No	E	POTTERY	PH - 1 frag
7961	4057	No	No	E	SLAG	Slag/furnace lining
7962	4057	No	No	E	SLAG	Furnace lining - 20 frags
7963	4057	No	No	E	OTHER	Charcoal for radiocarbon dating
7964	4058	No	No	E	STONE	Furnace stone, 5 frags -
7965	4058	No	No	E	STONE	Furnace stone, 1 frag - L26cm, W12cm, D9cm
7966	4059	No	No	E	STONE	Furnace stone base
7967	4057	No	No	E	SLAG	Furnace lining
7968	4220	No	No	E	OTHER	Charcoal for radiocarbon dating
7969	4218	No	No	E	POTTERY	PH - 1 body sherd
7970	4218	No	No	E	POTTERY	PH - 1 frag
7971	4218	No	No	E	POTTERY	PH - 1 frag

SF	Context	Unstrat	NFS	Area	Material	Description
7972	4218	No	No	E	POTTERY	PH - 5 frags
7973	4218	No	No	E	POTTERY	PH - 6 frags
7974	1133	No	No	E	STONE	Imported stone
7975	4221	No	No	E	POTTERY	PH - 1 frag
7976	4220	No	No	E	POTTERY	PH - 2 body sherds, 5 frags
7977	4039	No	No	E	STONE	Hammerstone?
7978	4039	No	No	E	STONE	Hammerstone
7979	4039	No	No	E	STONE	Hammerstone
7980	4192	No	No	E	STONE	Possible worked stone
7981	4192	No	No	E	STONE	Worked stone disc - 6 frags conjoining
7982	3988	No	No	E	POTTERY	PH - 1 frag
7983	4218	No	No	E	POTTERY	PH - 1 frag
7984	4218	No	No	E	POTTERY	PH - 1 frag
7985	4228	No	No	E	BONE	S/g metacarpal
7986	4218	No	No	E	POTTERY	PH - 3 bases, 12 frags, possibly related to SF7844
7987	4228	No	No	E	BONE	Cattle phalange
7988	4218	No	No	E	POTTERY	PH - 1 rim
7989	4218	No	No	E	POTTERY	PH - 1 frag
7990	3966	No	No	E	POTTERY	PH - 1 frag
7991	4218	No	No	E	POTTERY	PH - 1 frag
7992	4218	No	No	E	POTTERY	PH - 1 body sherd
7993	4218	No	No	E	BONE	1 Tooth
7994	4205	No	No	E	BONE	Whale bone
7995	4218	No	No	E	POTTERY	PH - 1 frag
7996	4218	No	No	E	POTTERY	PH - 1 frag
7997	4221	No	No	E	POTTERY	PH - 1 base?
7998	4220	No	No	E	POTTERY	PH - 3 body sherds, 4 frags, 1 slag, with charred residue
7999	4220	No	No	E	POTTERY	PH - 1 frag, 1 base
8000	4253	No	No	E	STONE	Stone pounder
8001	3321	No	Yes	E	BONE	Antler - 2 frags, from SWR16 tray found bone bag
8002	4192	No	No	E	STONE	Possible worked stone
8003	4192	No	No	E	STONE	Whetstone
8004	4192	No	No	E	POTTERY	PH - 2 frags
8005	4192	No	No	E	POTTERY	PH - 1 body sherd
8006	4192	No	No	E	STONE	Whet stone
8007	4192	No	No	E	POTTERY	PH - 1 frag
8008	4192	No	No	E	BONE	Human tooth
8009	4253	No	No	E	BONE	Cat skull
8010	4246	No	No	E	POTTERY	PH - 1 base
8011	4198	No	No	E	BONE	Worked bone
8012	4068	No	Yes	E	BONE	2 whalebone frags from tray
8013	4161	No	Yes	E	BONE	1 whalebone frag
8014	3345	No	Yes	E	BONE	Antler, worked? From SWR16 tray found bone bag

SF	Context	Unstrat	NFS	Area	Material	Description
8015	4199	No	No	E	POTTERY	PM - 1 frag, glazed, blue and white, from sieve
8016	4161	No	Yes	E	BONE	Whale bone frag from tray
8017	3346	No	Yes	E	POTTERY	PH - 2 frags from SWR16 tray found bone bag
8018	4240	No	Yes	E	IRON (FE)	1 small Fe rich lump
8019	4240	No	No	E	SLAG	Spheroidal hammerscale slag
8020	4240	No	No	E	SLAG, IRON (FE)	Fe rich slag - 2 small amorphous lumps
8021	4240	No	No	E	IRON (FE)	Fe rich lump
8022	4240	No	No	E	POTTERY	PH - 1 frag
8023	4240	No	No	E	POTTERY	PH - 1 body sherd, 4 frags
8024	4240	No	No	E	SLAG	Slag - 2 small amorphous lumps
8025	4240	No	No	E	POTTERY	PH - 1 rim, 4 frags
8026	4240	No	No	E	POTTERY	PH - 1 frag
8027	4240	No	No	E	SLAG	Slag - 2 small amorphous lumps
8028	4240	No	No	E	STONE	Possible worked stone
8029	4240	No	No	E	SLAG, IRON (FE)	1 Fe rich amorphous lumps
8030	4240	No	No	E	POTTERY	PH - 1 body sherd
8031	4240	No	No	E	SLAG	Slag - 2 small amorphous lumps
8032	4240	No	No	E	SLAG	Slag - 1 small amorphous lump
8033	4240	No	No	E	SLAG	Fe rich slag - 2 amorphous lumps
8034	4240	No	Yes	E	POTTERY	PH - 1 base, 1 frag
8035	4060	No	No	E	SLAG	Slag - 1 large, 3 small amorphous lumps
8036	4060	No	No	E	POTTERY	PH - 1 frag
8037	4060	No	No	E	POTTERY	PH - 1 frag
8038	4060	No	No	E	POTTERY	PH - 1 frag
8039	4060	No	No	E	SLAG	Slag - 1 medium amorphous lump
8040	4240	No	No	E	SLAG	Slag - 4 small amorphous lumps
8041	4240	No	No	E	POTTERY	PH - 1 frag
8042	4240	No	No	E	SLAG	Slag - 2 small amorphous lumps
8043	4240	No	No	E	SLAG	Fe rich slag - 2 small amorphous lumps
8044	4060	No	No	E	STONE	Hammerstone
8045	4240	No	No	E	POTTERY	PH - 1 frag
8046	4236	No	No	E	POTTERY	PH - 1 body sherd
8047	4237	No	No	E	STONE	Anvil
8048	4057	No	Yes	E	SLAG	Furnace lining from tray
8049	4201	No	No	E	STONE	Hammerstone/honestone
8050	1133	No	No	E	PUMICE	1 pumice stone
8051	4054	No	No	E	SLAG	Slag - 1 small amorphous lump
8052	4054	No	No	E	SLAG	Slag - 1 small amorphous lump
8053	4054	No	No	E	SLAG	Slag - 1 small amorphous lump
8054	4054	No	No	E		PH - 3 body sherds, 8 frags
8055	4054	No	No	E	IRON (FE)	Fe conglomerate- 2 frags
8056	4054	No	No	E	SLAG	Slag - 3 small amorphous lumps
8057	4054	No	No	E	IRON (FE)	Fe rich potential object

SF	Context	Unstrat	NFS	Area	Material	Description
8058	4054	No	No	E	SLAG	Slag? Fe rich amorphous lumps - 6 lumps
8059	4054	No	No	E	POTTERY	PH - 2 frags
8060	4054	No	No	E	IRON (FE)	2 small Fe lumps
8061	4054	No	No	E	SLAG	Slag - 1 small amorphous lump
8062	1133	No	No	E	STONE	Flint frag
8063	1133	No	No	E	SLAG	Slag - 5 small amorphous lumps
8064	4060	No	No	E	BONE	Worked antler
8065	4060	No	No	E	OTHER	Charcoal - 3 lumps
8066	4060	No	No	E	STONE	Honestone?
8067	4236	No	No	E	FIRED CLAY	Flat crucible, 2 frags, conjoining
8068	4238	No	No	E	POTTERY	PH - 1 body sherd
8069	4243	No	No	E	STONE	Anvil stone
8070	4219	No	Yes	E	SLAG	Slag - 7 small amorphous lumps from tray
8071	4219	No	Yes	E	SLAG	Slag - 5 small amorphous lumps from sieve
8072	4057	No	Yes	E	SLAG	Furnace lining from tray
8073	4258	No	No	E	STONE	Quern stone
8074	1133	No	No	E	SLAG	1 small amorphous lump slag
8075	1133	No	No	E	SLAG	Slag - 1 small amorphous lump
8076	4254	No	No	E	POTTERY	PH - 1 rim
8077	4275	No	No	E	POTTERY	PH - 1 frag
8078	4278	No	No	E	SLAG	Slag - 1 small amorphous lump
8079	4276	No	No	E	POTTERY	PH - 1 body sherd, 1 frag
8080	4278	No	No	E	POTTERY	PH - 5 body sherds, 11 frags
8081	4240	No	No	E	SLAG	Slag - 2 small amorphous lumps
8082	4240	No	No	E	SLAG	Slag - 1 small amorphous lump
8083	4240	No	No	E	SLAG	Slag - 1 small amorphous lump
8084	4240	No	No	E	SLAG	Slag - 2 small amorphous lumps
8085	4240	No	No	E	POTTERY	PH - 1 frag
8086	4240	No	No	E	IRON (FE)	Fe rich object - 2 lumps
8087	4240	No	No	E	POTTERY	PH - 1 body sherd
8088	4240	No	No	E	POTTERY	PH - 1 frag
8089	4240	No	No	E	IRON (FE)	3 small Fe lumps
8090	4240	No	No	E	SLAG	Furnace lining
8091	4240	No	No	E	IRON (FE)	1 small amorphous lump Fe
8092	4240	No	No	E	IRON (FE)	2 small Fe objects
8093	4240	No	No	E	POTTERY	PH - 1 frag
8094	4240	No	No	E	IRON (FE)	Fe object - 1 lump
8095	4201	No	No	E	POTTERY	PH - 1 rim, flat splayed rim
8096	4057	No	No	E	SLAG	Slag - 2 small amorphous lumps
8097	4240	No	No	E	IRON (FE)	Fe lump
8098	4240	No	No	E	POTTERY	PH - 1 frag
8099	4240	No	No	E	IRON (FE)	1 small Fe lump
8100	4240	No	No	E	POTTERY	PH - 1 body sherd, 1 rim, 6 frags

SF	Context	Unstrat	NFS	Area	Material	Description
8101	4240	No	No	E	POTTERY	PH - 1 frag
8102	4240	No	No	E	POTTERY	PH - 1 frag
8103	4240	No	No	E	IRON (FE)	Fe rich lump
8104	4240	No	No	E	POTTERY	PH - 1 frag
8105	4240	No	No	E	OTHER	SF8105.a - wood
8105	4240	No	No	E	CU ALLOY	SF8105.b - Cu alloy
8105	4240	No	No	E	OTHER, CU ALLOY	SF8105.c - wood with Cu alloy
8106	4240	No	No	E	CU ALLOY	Cu alloy wire - tin bronze with a little bit of lead
8107	4217	No	No	E	SLAG	Slag - 1 medium amorphous lump
8108	4140	No	No	E	IRON (FE)	Fe lump, 1 small, 1 medium
8109	4217	No	No	E	SLAG	Slag - 1 small amorphous lump
8110	4240	No	No	E	POTTERY	PH - 2 frags
8111	1133	No	No	E	STONE	Worked stone?
8112	4192	No	No	E	OTHER	Copper ore - 2 small lumps
8113	4192	No	No	E	POTTERY	PH - body sherd, decorated
8114	4192	No	No	E	BONE	Whale bone weaving comb
8115	4192	No	No	E	POTTERY	PH - 1 body sherd, 1 frag
8116	4207	No	No	E	POTTERY	PH - 1 body sherd
8117	4192	No	No	E	POTTERY	PH - 1 body sherd
8118	4240	No	No	E	IRON (FE)	2 small Fe lumps
8119	4220	No	No	E	POTTERY	PH - 2 frags
8120	3526	No	No	E	POTTERY	PH - 2 body sherds
8121	4068	No	No	E	BONE	Antler - 1 frag
8122	4248	No	No	E	POTTERY	PH - 1 body sherd, 1 frag
8123	4255	No	No	E	BONE	Worked bone pin
8124	4255	No	No	E	BONE	Worked bone/antler, 3 frags
8125	4278	No	No	E	STONE	Hone stone
8126	4278	No	No	E	POTTERY	PH - 1 frag
8127	4278	No	No	E	POTTERY	PH - 3 frags
8128	4255	No	No	E	BONE	Antler - 2 frags
8129	4278	No	No	E	STONE	Hone stone
8130	4220	No	No	E	POTTERY	PH - 1 frag
8131	4278	No	No	E	CU ALLOY	Copper alloy
8132	4278	No	No	E	POTTERY	PH - 3 frags
8133	4278	No	No	E	POTTERY	PH - 1 frag
8134	4278	No	No	E	SLAG	Slag - 1 small amorphous lump
8135	4240	No	No	E	IRON (FE)	Fe rich lumps
8136	4240	No	No	E	IRON (FE)	Fe rich lump
8137	4240	No	No	E	POTTERY	PH - 1 frag
8138	4240	No	No	E	POTTERY	PH - 1 body sherd, base?
8139	4240	No	No	E	BONE	Worked? Antler
8140	4240	No	No	E	STONE	Vitrified stone
8141	4240	No	No	E	IRON (FE)	Fe rich lump

SF	Context	Unstrat	NFS	Area	Material	Description
8142	4240	No	No	E	IRON (FE)	1 small Fe lump
8143	4192	No	No	E	POTTERY	PH - 1 body sherd
8144	4192	No	No	E	POTTERY	PH - 2 frags
8145	4240	No	No	E	IRON (FE)	2 small Fe rich lumps
8146	4240	No	No	E	IRON (FE)	Fe rich lumps
8147	4240	No	No	E	BONE	Worked bone
8148	4240	No	No	E	POTTERY	PH - 1 frag
8149	4240	No	No	E	POTTERY	PH - 3 frags
8150	4240	No	No	E	POTTERY	PH - 1 frag
8151	4217	No	No	E	POTTERY	PH - 1 frag
8152	4240	No	No	E	SLAG	1 small amorphous lump
8153	4192	No	No	E	STONE	Polishing stone
8154	4192	No	No	E	POTTERY	PH - 2 frags
8155	4192	No	No	E	POTTERY	PH - 2 frags
8156	4192	No	No	E	STONE	Whetstone
8157	4192	No	No	E	POTTERY	PH - 1 frag
8158	4192	No	No	E	POTTERY	PH - 1 frag
8159	4192	No	No	E	POTTERY	PH - 1 rim
8160	4206	No	No	E	POTTERY	PH - 4 rims, 1 body sherd, 9 frags
8161	4192	No	No	E	POTTERY	PH - 1 body sherd
8162	4253	No	No	E	BONE	Whale bone, 2 frags conjoining
8163	4206	No	No	E	POTTERY	PH - 1 rim
8164	4278	No	No	E	BONE	1 bone - originally labelled as pot
8165	4206	No	No	E	POTTERY	PH - 1 frag
8166	4278	No	No	E	POTTERY	PH - 1 rim
8167	4255	No	No	E	POTTERY	PH - 1 frag
8168	4278	No	No	E	SLAG	Slag - 1 small amorphous lump
8169	4278	No	No	E	STONE	Honestone
8170	4278	No	No	E	SLAG	Slag - 1 small amorphous lump
8171	4217	No	Yes	E	POTTERY	PH - 1 frag from sieve
8172	3331	No	Yes	E	PUMICE	Worked pumice - from SWR16 tray found bone bag
8173	4247	No	No	E	POTTERY	PH - 1 rim, Early Iron Age flat splayed rim
8174	4254	No	No	E	POTTERY	PH - 1 frag
8175	4257	No	No	E	BONE	Worked bone
8176	4257	No	No	E	POTTERY	PH - 1 frag
8177	4257	No	No	E	POTTERY	PH - crucible frag?
8178	4257	No	No	E	POTTERY	PH - 1 frag
8179	4257	No	No	E	POTTERY	PH - 1 body sherd
8180	4257	No	No	E	POTTERY	PH - 1 body sherd
8181	4257	No	No	E	POTTERY	PH - 1 frag, rim?
8182	4255	No	No	E	BONE	Bone pin
8183	4255	No	No	E	BONE	Antler/bone pin
8184	4255	No	No	E	BONE	Bone/antler pin

SF	Context	Unstrat	NFS	Area	Material	Description
8185	4255	No	No	E	BONE	Bone/antler pin
8186	4278	No	No	E	POTTERY	PH - 1 body sherd
8187	4255	No	No	E	POTTERY	PH - 2 frags
8188	4277	No	No	E	POTTERY	PH - 1 body sherd
8189	4255	No	No	E	BONE	Antler
8190	4278	No	No	E	POTTERY	PH - 1 body sherd
8191	4279	No	No	E	POTTERY	PH - 1 body sherd
8192	4268	No	No	E	POTTERY	PH - 1 frag
8193	4279	No	No	E	POTTERY	PH - 1 frag
8194	4268	No	No	E	POTTERY	PH - 1 frag
8195	4268	No	No	E	POTTERY	PH - 1 frag
8196	4205	No	No	E	BONE	Worked bone spatula
8197	4279	No	No	E	POTTERY	PH - 1 frag
8198	4156	No	No	E	POTTERY	PH - 1 body sherd
8199	4156	No	No	E	POTTERY	PH - 1 frag
8200	4219	No	Yes	E	SLAG	5 small Fe rich amorphous lumps slag from sieve
8201	4219	No	Yes	E	POTTERY	PH - 2 frags from sieve
8202	4167	No	Yes	E	SLAG	Slag - 2 small amorphous lumps from tray
8203	4219	No	Yes	E	SLAG	Slag - 4 small amorphous lumps, 1 spheroid from sieve
8204	4218	No	Yes	E	POTTERY	PH - 1 frag from sieve
8205	4218	No	Yes	E	POTTERY	PH - 4 frags, 2 conjoining from sieve
8206	4054	No	Yes	E	POTTERY	PH - 1 frag from sieve
8207	4054	No	Yes	E	SLAG	1 medium Fe rich lump from sieve
8208	4221	No	Yes	E	POTTERY	PH - 1 body sherd, 3 frags from sieve
8209	4221	No	Yes	E	STONE	Hammerstone? From sieve
8210	4206	No	Yes	E	POTTERY	PH - 4 frags from sieve
8211	4253	No	Yes	E	POTTERY	PH - 1 rim, 1 frag from sieve
8212	4060	No	Yes	E	POTTERY	PH - 1 frag from sieve
8213	4060	No	Yes	E	SLAG, IRON (FE)	Fe rich slag - 13 small amorphous lumps from sieve
8214	4054	No	Yes	E	POTTERY	PH - 2 frags from sieve
8215	4258	No	No	E	STONE	Hone stone frag
8216	1133	No	No	E	POTTERY	PH - 5 frags
8217	4258	No	No	E	OTHER	Charcoal/burnt wood
8218	4258	No	No	E	POTTERY	PH - 1 body sherd
8219	4205	No	No	E	STONE	Worked stone
8220	4205	No	No	E	POTTERY	PH - 1 frag
8221	4258	No	No	E	POTTERY	PH - 2 frags, conjoining
8222	4205	No	No	E	POTTERY	PH - 1 frag
8223	4276	No	No	E	POTTERY	PH - 1 frag
8224	4277	No	No	E	POTTERY	PH - 1 frag
8225	4258	No	No	E	POTTERY	PH - 1 frag
8226	4258	No	No	E	POTTERY	PH - 1 frag
8227	4258	No	No	E	POTTERY	PH - 1 frag

SF	Context	Unstrat	NFS	Area	Material	Description
8228	4258	No	No	E		PH - 1 body sherd
8229	4258	No	No	E	POTTERY	PH - 1 frag
8230	4258	No	No	E	POTTERY	PH - 1 frag with charred residue
8261	4247	No	Yes	E	SLAG	Slag - 4 small amorphous lumps, from sieve
8262	4192	No	Yes	E	BONE	Whale bone - 1 piece
8263	4220	No	Yes	E	POTTERY	PH - 1 frag from sieve
8264	4257	No	Yes	E	CU ALLOY	Cu alloy object from sieve
8265	3329	No	Yes	E	BONE	Antler from SWR16 Tray Found bone bag
8266	3118	No	Yes	E	BONE	Worked bone from SWR16 tray found bone bag
8267	3342	No	Yes	E	POTTERY	PH - 1 rim from SWR16 tray found bone bag
8268	4258	No	Yes	E	POTTERY	PH - 5 frags, 2 conjoining from sieve
8269	4266	No	Yes	E	POTTERY	PH - 3 frags, 2 conjoining from sieve
8270	4257	No	Yes	E	IRON (FE)	2 Fe lumps from sieve
8271	4257	No	Yes	E	POTTERY	PH - 2 frags from sieve
8272	4264	No	Yes	E	POTTERY	PH - 2 frags from sieve
8273	4197	No	Yes	E	POTTERY	PH - 2 frags from sieve
8274	4058	No	Yes	E	SLAG, FIRED CLAY	Furnace lining/debris associated with SF7884 from tray
8275	4257	No	Yes	E	POTTERY	PH - 7 frags, from sieve
8276	3336	No	Yes	E	SLAG	Slag - 1 amorphous lump, from SWR16 tray found bone bag
8277	3336	No	Yes	E	POTTERY	PH - 1 frag, from SWR16 tray found bone bag
8278	3329	No	Yes	E	POTTERY	PH - 2 frags, from SWR16 tray found bone bag
8279	3329	No	Yes	E	BONE	Antler? 3 frags, from SWR16 tray found bone bag
8280	4278	No	No	E	POTTERY	PH - 1 frag
8281	4278	No	No	E	CU ALLOY	Copper alloy fragments, associated with SF8374
8282	4278	No	No	E	POTTERY	PH - 1 frag
8283	4278	No	No	E	POTTERY	PH - 1 body sherd, 1 frag
8284	4278	No	No	E	POTTERY	PH - 2 frags, conjoining
8285	4238	No	No	E	POTTERY	PH - 1 frag
8286	4279	No	No	E	POTTERY	PH - 1 frag
8287	4183	No	No	E	POTTERY	PH - 1 frag
8288	4238	No	No	E	POTTERY	PH - 1 rim
8289	4238	No	No	E	POTTERY	PH - 1 frag
8290	4289	No	No	E	POTTERY	PH - 1 body sherd, 1 frag
8291	4278	No	No	E	SLAG	Slag - 1 small amorphous lump
8292	4278	No	No	E	POTTERY	PH - 3 body sherds, 4 frags
8293	4278	No	No	E	SLAG	Slag - 1 small amorphous lump
8294	4278	No	No	E	BONE	Worked bone?
8295	4278	No	No	E	SLAG	Slag - 1 large amorphous lump
8296	4276	No	No	E	POTTERY	PH - 1 base, 2 frags
8297	4278	No	No	E	POTTERY	PH - 1 base, 4 frags
8298	4194	No	No	E	BONE	Worked bone?
8299	4276	No	No	E	POTTERY	PH - 1 frag
8300	4278	No	No	E	POTTERY	PH - 2 frags

SF	Context	Unstrat	NFS	Area	Material	Description
8301	4278	No	No	E	STONE	Worked stone
8302	4168	No	No	E	SLAG	Slag - 1 amorphous lump
8303	4021	No	No	E	STONE	Hammerstone
8304	4021	No	No	E	POTTERY	PH - 1 frag
8305	4294	No	No	E	POTTERY	PH - 2 body sherds
8306	4294	No	No	E	POTTERY	PH - 1 frag, base?
8307	4294	No	No	E	POTTERY	PH - 1 rim
8308	4294	No	No	E	POTTERY	PH - 1 frag, rim?
8309	4294	No	No	E	POTTERY	PH - 1 frag
8310	4294	No	No	E	POTTERY	PH - 1 frag
8311	4283	No	No	E	POTTERY	PH - 1 frag
8312	4294	No	No	E	STONE	Worked stone, ash box base
8313	4289	No	No	E	POTTERY	PH - 3 rims
8314	4293	No	No	E	BONE	Whalebone with pivot hole
8315	4289	No	No	E	POTTERY	PH - 1 frag
8316	4289	No	No	E	BONE	Worked bone/antler
8317	4289	No	No	E	POTTERY	PH - 3 frags
8318	4289	No	No	E	POTTERY	PH - 1 base, 1 rim, 9 frags
8319	4289	No	No	E	POTTERY	PH - 1 frag
8320	4294	No	No	E	POTTERY	PH - 2 frags
8321	4212	No	Yes	E	POTTERY	PH - 1 rim, possibly decorated, 1 frag from sieve
8322	4297	No	No	E	STONE	Worked stone?
8323	4297	No	No	E	BONE	Antler
8324	4294	No	No	E	POTTERY	PH - 1 body sherd, 1 frag, conjoining
8325	4300	No	No	E	POTTERY	PH - 3 rims, 8 body sherds, 32 frags, 2 rims and 1 body sherd conjoining, 1 frag with copper alloy residue
8326	4300	No	No	E	POTTERY	PH - 2 body sherds, 1 frag, 1 body and frag conjoining
8327	4285	No	No	E	POTTERY	PH - 2 body sherds conjoining
8328	4300	No	No	E	POTTERY	PH - 1 rim
8329	4300	No	No	E	POTTERY	PH - 3 frags
8330	4221	No	No	E	POTTERY	PH - 4 frags
8331	4268	No	No	E	POTTERY	PH - 1 rim, 19 frags
8332	4278	No	No	E	POTTERY	PH - 7 frags
8333	4278	No	Yes	E	IRON (FE)	3 small amorphous Fe lumps from sieve
8334		Yes	Yes	E	STONE	Worked? stone from spoil
8335	4218	No	No	E	POTTERY	PH - 1 body sherd
8336	4218	No	No	E	POTTERY	PH - 1 frag
8337	4218	No	No	E	STONE	Cobble tool/worked stone
8338	4218	No	No	E	POTTERY	PH - 10 frags
8339	4212	No	No	E	POTTERY	PH - 1 frag
8340	4297	No	No	E	STONE	Hammerstone
8341	4297	No	No	E	POTTERY	PH - 1 frag
8342	4297	No	No	E	POTTERY	PH - 1 rim, 1 frag
8343	4289	No	No	E	CU ALLOY	Copper alloy fragments

SF	Context	Unstrat	NFS	Area	Material	Description
8344	4212	No	No	E	POTTERY, STONE	PH - 1 frag/possibly just a stone
8345	4289	No	No	E	POTTERY	PH - 1 body sherd
8346	4289	No	No	E	POTTERY	PH - 1 rim
8347	4297	No	No	E	POTTERY	PH - 1 frag
8348	4297	No	No	E	POTTERY	PH - 1 frag
8349	4155	No	No	E	STONE	Polished stone
8350	4255	No	No	E	POTTERY	PH - 1 frag possible burnt residue
8366	4291	No	No	E	POTTERY	PH - 1 frag
8367	4299	No	No	E	POTTERY	PH - 1 frag
8368	4302	No	No	E	POTTERY	PH - 1 frag
8369	4302	No	No	E	POTTERY	PH - 1 frag
8370	4300	No	No	E	POTTERY	PH - 1 body sherd
8371	4300	No	No	E	POTTERY	PH - 2 rims, conjoining
8372	4257	No	No	E	BONE	Sawn cattle femur head - spindle whorl?
8373	4302	No	No	E	STONE	Hammer stone
8374	4278	No	Yes	E	CU ALLOY, BONE, IRON (FE)	Copper and iron fragments, copper-stained bone from tray, associated with SF8281
8375	4320	No	Yes	E	POTTERY	PH - 2 frags conjoining from tray
8381	4299	No	No	E	BONE	Bone for radiocarbon dating
8382	4300	No	No	E	CU ALLOY, BONE	Copper alloy and bone/Fe piece
8383	4300	No	No	E	POTTERY	PH - 2 body sherd, 9 frags, associated with SF8325
8393	4278	No	Yes	E	POTTERY	PH - 1 rim?, 4 frags from sieve
8394	4289	No	Yes	E	POTTERY	PH - 2 rims, 2 frags from sieve
8395	4289	No	Yes	E	POTTERY	PH - 3 frags from sieve
8396	4289	No	Yes	E	IRON (FE)	1 small Fe lump from sieve
8397	4289	No	Yes	E	POTTERY	PH - 1 rim, 3 frags, from tray
8398	4297	No	Yes	E	POTTERY	PH - 1 frag from tray
8399	4294	No	Yes	E	POTTERY	PH - 1 body sherd, 4 frags, from sieve
8400	4300	No	Yes	E	POTTERY	PH - 1 frag from tray
8401	4297	No	Yes	E	SLAG, IRON (FE)	3 small Fe lumps or slag from tray, 2 conjoining
8402	4297	No	Yes	E	POTTERY	PH - 1 frag from tray
8403	4278	No	Yes	E	IRON (FE)	1 small Fe lump from tray
8404	4314	No	No	E	BONE	Whalebone socket/bowl

Appendix 6: Artefact record photographs

These photographs are record shots only, taken on the iPad at the time of recording the artefact.

SF	Artefact photo	Bag photo
7601	314EEDAF-22C9-441D-B1FF-B6D91C90CB51.jpg; A08376A8-1DDA-457F-90B5-3FE84756AB1D.jpg	1003BC33-899A-43C3-9428-E4B205D22940.jpg
7602	4EE1FABD-9B67-4F25-9A52-0DFA5A429AE5.jpg	8DA19853-F31A-46E2-A0FA-0280E61FA5BF.jpg
7603	45B6EA0A-EB75-4984-B948-4245023D1973.jpg; F6441352-C1E9-4A14-B92C-90CA2F4B6FC8.jpg	F5FCC4AB-C9D5-41D9-8FE3-F614B16D9C71.jpg
7604	40681B5B-2CDB-431D-AF37-9086B1CD3002.jpg; B9D5AE59-DF93-4BD1-A7CF-49D45610D1B7.jpg	0626D18E-B905-4BA6-8E36-1E3604262C10.jpg
7605	082D8E84-04F8-48AF-BD3D-2D108B9CE3D5.jpg	AFD11009-CCF4-4D20-B862-EDB253019AA6.jpg
7606	2ECFD613-717C-4CA8-AC03-00F8E0D1F5EF.jpg; 3B69C061-47D5-4FA6-A4C6-6EBC67FE7F8B.jpg	9E5B99C1-F5C9-4240-BF8F-AF2D75E7DB0A.jpg
7607	8EE34B3C-DD23-428D-BA84-334133A5A912.jpg; F87A9B88-E685-4EC3-9603-36ABA9DAA24D.jpg	34A303D6-C038-43D8-90CF-E2AAD1940499.jpg
7608	882194A6-0ADE-4AD8-B950-FBAED09F5904.jpg; 96F2D279-153F-45D6-9E68-69FA358847C0.jpg	89510149-4B60-4128-A613-815DA7DCCA42.jpg
7609	48E3B88F-5783-4E0F-88B1-595D8A574E91.jpg; 4EEB1A13-40BC-4B3C-9DC9-51972858FD22.jpg	5B8B5299-A699-439F-A37E-FAB4B61F4DE.jpg
7610	707A914D-37E6-4001-955E-75C29136CB92.jpg; CB3957E4-0E9D-48FB-8B66-85AB8D495A02.jpg	4F9598E0-E9EC-4832-B629-E9E15A0857AA.jpg
7611	14B57697-D95D-4DC4-8BD5-4DFECAAA2EDB.jpg; D3457C26-B91C-4308-A3C2-FC25FDEFCEB1A.jpg	54D63EC1-7A48-4305-9644-509CA72A3A63.jpg
7612	3081B2E3-8DC6-4F6B-9D40-69DDB8E82B1C.jpg; 5556B529-BA27-47F4-AF5A-6C428D5776EB.jpg; 414F25A2-74EC-45CC-8B35-A696BCEA4134.jpg	00FEA9AE-0779-496F-AA72-597DEE066A6E.jpg
7613	3B5C3688-9AAA-4604-A271-288D6D201814.jpg; 1F660F9D-02D2-4424-B762-FF42688DEF7C.jpg	B4B65CBA-3408-4A07-8529-448F0ADA52C8.jpg
7614	93E9D84B-9C63-45EF-911D-DDFB29A3B446.jpg; 9299F923-9583-49BF-B093-EDFB86340990.jpg	6833C2EC-5DD4-4D75-8FA5-E6C2B17E05FC.jpg
7615	2ECE2D40-5A97-4162-8ACB-C35FF2A3BF42.jpg; 89D9D9F6-0BE5-4E6E-BC29-988649BA5C9A.jpg	1CA575C2-D6E8-4C92-9066-C9734E8FAFCF.jpg
7616	F3A75F28-FDCF-48FA-B59A-0189261EC44.jpg; B7C28927-EA97-4093-A265-E834CCB43809.jpg	A7A7610C-3818-469C-A627-0A2C1A05B28B.jpg
7617	3498EC8B-2E18-4BD9-94D7-8B003032D9F2.jpg; ECB6525A-1C0F-45D9-869A-B3184FB2C057.jpg	7BD68CB8-F297-49EC-8DAC-C1BE0F731FBA.jpg
7618	974E9B9E-CD70-45BA-9F8E-DF6784EFE9AF.jpg; 9F1D8FC2-AAAB-465F-A59B-105553432BF1.jpg	E2964DCE-4DA4-43EC-97A3-1C6EF91EB6B5.jpg
7619	3D6A28F2-7E72-4E9A-9BD2-EFEC2A2025B8.jpg	E95B2353-53D9-4A12-8BB5-73BCC8C9B458.jpg
7620	9BB8AF7F-8B1F-489A-A081-17B8B56B1403.jpg; 0C85F40A-58CC-427C-9CD7-C0776759E70D.jpg	4C690D5B-C31C-4640-A29C-B5D19C0E0421.jpg
7621	33A80B0A-E7D7-4251-ACB4-EDE959FB0C54.jpg; CA7C5CFC-1438-4AA1-9A39-C27D307E66F7.jpg	FA3726E8-406E-491D-9C9C-AE56C45586F7.jpg
7622	F77C436C-3BC6-4B73-9A8B-FF9F7538576D.jpg	1F99C9CF-B902-415B-AD23-9E039CE732C6.jpg
7623	816E7D8B-875C-4CDA-956C-91F6D6D298D6.jpg; 8A71BA92-9CEE-4AB4-897E-8EFE22032CC3.jpg	F180ACB6-DB84-4DB4-88CE-92E91D29640B.jpg
7624	E2490F86-D9CC-4D57-8810-EEEE39EB0E625.jpg; BDDF8693-292B-4747-893D-95CD4B409E03.jpg	025663D1-B6AC-42FB-8D5F-5D6D8E382F5C.jpg
7625	19B62157-E8E7-49D8-8FC5-D00C6B5C492C.jpg; 239BCDDC-E441-48CC-9D53-26A1C8EAC7D4.jpg	3F8B4C72-C62D-477A-BEC3-2742C955880D.jpg
7626	F823D5C3-9E7D-42A5-85B7-05B72481018B.jpg; 14E0F80A-4972-4EA9-BC29-22D32005A8DC.jpg	AA51ED1B-AABB-4302-90D3-19014A232BAB.jpg
7627	B6DB9BBA-A90A-426F-8302-6984DEC9DE8B.jpg; 78B20575-18F1-4226-88C8-142724DFCE35.jpg	6512EBE5-1137-4B22-B7D6-BD25D0B2ABB1.jpg
7628	D9BC772F-C2CC-43B2-A93C-A4184DE8FE44.jpg; B31F3D82-3BAD-4D2E-A84A-BC530B152FB7.jpg	B4B1FF59-9361-43B1-B974-BA85D970CE2C.jpg
7629	645AADE2-1C9F-46FA-AB05-9EADD5A42AD9.jpg; 17B999C3-1994-4B89-B61A-BD20C80A9DE5.jpg	1F950605-12BE-4FDF-AA57-DDC4BF46A5FE.jpg
7630	6754677A-4B85-4CC2-BFFA-A4DF9CD8F5FA.jpg; 21C45613-14C4-448B-B94E-79BFBDB9B08C7.jpg	57134943-E0E4-4AF9-A7E8-B7A575089F43.jpg
7631	B412405B-6458-4B13-84B2-7085DCFDCCB9.jpg; 77AB9661-58D8-4CAB-92B8-E33A0252BD5D.jpg	899EA2E3-CC7D-4204-9052-D72924BC8602.jpg
7632	0447EEB9-262D-427A-BFAF-F722D825257F.jpg; 6D2944D4-292E-46AC-AD72-FA5396A8980F.jpg	A7919CBA-E450-4D6B-9451-EC03DCEA198C.jpg
7633	8D8A6193-5E3A-4F27-9FCA-17CB14FF215D.jpg; 4DF455C4-90C4-49DD-8328-4685818C7B87.jpg	E0114047-B7C2-473D-B72F-C9E359FBD3F0.jpg
7634	D3011DBF-F1FB-4794-9CB4-CBDF2BE31273.jpg; 74DF9F9C-9DBC-4C40-9420-EBA7D65C6C34.jpg	93C84203-3FE5-4FA3-BFE3-800D126B1AD4.jpg
7635	FD7F6492-3E4E-4C4B-A327-C0ED93880FAA.jpg; E550EC70-9F32-4986-A555-09D7C72D723D.jpg	98ED20DD-4F17-40A5-AD3D-6EE6C8823794.jpg
7636	C53C35E7-DAD7-4930-B446-B1183F914717.jpg; 5CF90071-19A9-4958-B3E3-C2B76C310199.jpg; 4C530BFA-DEA6-4033-BC8F-750D0BAD56F5.jpg	9E5D9828-9C51-4F8A-B6D4-354BEB3F5551.jpg
7637	9F20C079-25A6-48ED-AD96-F7EA24E4E642.jpg; ACDC5E7D-A884-4F65-BE91-7647D820B509.jpg	7C393C07-665B-4A23-A306-96DC0DFDCD4C.jpg
7638	ACD706AB-82CD-48B9-868F-663B51A2BCDF.jpg; AF9B040F-9795-4C78-9CD0-73DD626C0E21.jpg	C0901150-AF5E-4C7D-BEB5-08D0565ED98B.jpg
7639	A89582A1-0CAA-480F-B078-DDA2A99E3033.jpg; E86FF653-16EA-4367-903A-94FD678EF65D.jpg	2723DF78-F7BD-4866-B11E-D2BD55A5CFCFA.jpg

SF	Artefact photo	Bag photo
7640	3AF0870B-3FA2-4C0E-B88C-A68A2C014F9B.jpg; 1A21C734-11D2-4429-A5CF-19C774E0D232.jpg	9D4CE67F-0D2E-4D28-8A15-21723B8E26B7.jpg
7641	B9BAEEEC-3250-4FF3-9D4B-4A463DFBDE9F.jpg; 399DB06B-AFBE-4049-95D5-DAF145E12CBF.jpg	CB010197-DCB3-4FF9-9AD6-4296751A3ECB.jpg
7642	6C303EEC-2CA2-45C8-A9B4-E2180266937F.jpg; 4D3C2DF3-1AC5-4CF2-B5D3-A03E8AAA07ED.jpg	5F620E5B-53AA-4EDB-B074-6A0CDBC0FC59.jpg
7643	D3B2ECBD-C665-460E-A5B3-88C03B7F72BE.jpg; CDFD0DD7B-2697-4EA8-9098-FD148A760585.jpg	61FFE219-3504-4FAD-8D9F-FA3981F5BFD3.jpg
7644	78AA85AB-F83E-44BC-9787-BE89E36102A1.jpg; 9D7141BA-AE60-4360-BD58-BB58E136E1C4.jpg	8226EEF4-E9B3-4E17-BCC7-34C0E0E8834F.jpg
7645	BE7B70A0-7BBF-47DB-9B43-F73E99E6B72C.jpg; 9C55677D-0634-428C-A17B-BA07F4DCADD8.jpg	846513C5-76CF-439F-93CC-D549641D2448.jpg
7646	7BB4DE55-6304-48B4-B644-9E0785CBEC91.jpg; 99A812E3-5C01-48E7-BC40-3A6DD3FB5E4A.jpg	A5ABE318-8340-426F-BDBD-58DD006340D3.jpg
7647	9929C9AC-94BB-4013-A987-1B88B534C152.jpg; A95635C6-AD47-4563-934A-D496513229F0.jpg	02DBC415-2054-4845-A52E-8EE55118D2DF.jpg
7648	9A42FA3A-6D67-4180-90E5-461D56BD91EE.jpg; 3BF8E345-D200-44FC-923F-8A63D0BB00D4.jpg	E485DE15-7328-4A03-9F52-461A5BF7F0B3.jpg
7649	62FAACB8-A9CE-4DAD-AC0F-FB488BDAAF4C.jpg; DC0C8A13-FC66-47BF-AE3D-405109F2B4D8.jpg	1FC2C764-6ABB-4D32-A0EF-D100F9F17181.jpg
7650	601F0E57-342F-4FC0-91F2-9AE75019DBB1.jpg; 18D27F9D-1BEF-413C-986D-F2084C3C0271.jpg	4E5D3BD0-1E43-40F5-B9EE-D20D672EEFB9.jpg
7651	DDBBC032-79C2-4781-BE9A-6AD93FBD82EE.jpg; 318859F6-013D-43C4-866D-30C605BA5217.jpg	1198AB5F-F0A6-4053-8B08-53CFAFA0DA1A.jpg
7652	C2F9D252-DC08-4959-A4AB-21BFA1CB85A9.jpg; 2E6940C5-BCA0-4BEE-B3A5-51F874C8679B.jpg	B65E6A15-7D70-4842-98F7-ECAF56AA382E.jpg
7653	66899BAC-F6D8-4D4A-B197-E2D34367D7B6.jpg; 474C85D6-4C25-4548-BD20-77ABAFDE85A2.jpg	9B9DD699-98B6-4176-8F8E-0478B2B33674.jpg
7654	73F4BBFC-4EE9-47B2-A448-21840C65270D.jpg; BA57D713-1766-4A5D-B8C3-8B412F5AA469.jpg	A5CA22E0-B107-4332-95A9-DBF235739EEC.jpg
7655	2E658C28-A8E6-9E11-2C01049FA767.jpg; 6E975BE3-A095-4584-A521-D2C32CEA2A7D.jpg	7AC5CC09-34B4-4218-84A0-F4A88B970872.jpg
7656	2F5D495A-42E3-41C5-A211-5E50E626A644.jpg	F2CA0C97-D67A-4AAC-B1F6-312767CBC92E.jpg
7657	2C32CE52-5432-42E4-BB81-144916FF970D.jpg; 1D9F92A1-EED9-4586-96CF-7E3EB8607D27.jpg	CE8E1E2B-443B-4394-BB90-4569E6A0F188.jpg
7658	858F5C2D-6AA6-4344-BD10-8585C4B53B1F.jpg; 0BAA9B72-E9D9-471E-9248-ED2E7939493B.jpg	D67315F8-F40A-49C1-847C-CBC4C99166DB.jpg
7659	3E568AD7-DAE7-403A-8DCF-A09CA5A60DE7.jpg; 6F2D98FD-3342-458A-8940-B7D0AA43D7A3.jpg	104096EE-5E65-4B88-888E-D9E6FA6B7F67.jpg
7660	BCF9F362-F42D-433E-A5C6-50C3DA3D6CB8.jpg; 025AF113-612A-48B9-AE7E-EA7889EE12CD.jpg	9CB10AAB-B5AB-4CE8-A80D-A8873F432571.jpg
7661	AAAE017F-A1AE-4727-9035-B42FED00E510.jpg; 86AD55E4-A789-4925-BDB4-E526B751BE6C.jpg	5E4EC095-1BB7-4239-BD8D-867B0B1472A6.jpg
7662	2D270434-91AC-4507-A2F7-6B5CB84E1792.jpg; 3D208080-3705-4C03-863F-78606D2F5170.jpg	2CFC257E-5B33-447D-93C2-B65361F1269C.jpg
7663	9EAB125C-EB19-4F7E-AC0B-2E641A6B51CD.jpg; 00D8033A-C536-42A1-B746-7A8C41C8272C.jpg	A816700B-3449-438C-99DE-DD4DD0B19CE9.jpg
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8396	A831D590-2057-43B3-8662-8122A922D248.jpg; 7D426925-68F3-4ECD-BC37-6FC8A8204D4B.jpg	F129AAFF-8BF0-43C5-9AC2-971E859787B4.jpg
8397	E76789BE-11B0-4F6D-89EB-6AE8C8D12E09.jpg; E7B9C032-46C3-451B-A982-48B84BF4DE91.jpg	3C223701-7959-44A5-934B-12ED4AEAF35D.jpg
8398	52849881-7085-43AA-AE9D-EE17A6D42C8B.jpg; E9538D1E-4752-431A-A6B1-B0FE6F3B7517.jpg	1A97E114-FC57-4ABB-AB82-97412E191838.jpg
8399	444B4B19-F3E8-42FE-AA60-1E8F1BD8BEC3.jpg; FCD92C7F-4156-490F-9A6A-C54142BB328F.jpg	A6F1BC9E-4B19-45A5-B892-FF92928F7E81.jpg
8400	57215E77-48A1-458E-8AFF-DEE69709CC34.jpg; 70C6FC9A-6313-495A-B463-56454B46B58B.jpg	8F993D40-2D91-4945-A31B-D80C5903226B.jpg
8401	54308123-1416-432D-930D-A3FF4FCB514C.jpg; EF8E622B-CC97-4139-970A-AB309E8F3028.jpg; 1C9E0B00-A524-483D-976C-77DF98B7B7F0.jpg	982549F0-BF90-4EC5-8D77-49DE9BAEF6D7.jpg
8402	59E0E5EA-A98E-4D37-80F7-3E3D576549D2.jpg; 78465CF8-3FEF-4E52-BEFF-A6F4BAE61F70.jpg	3FECBC41-BA9D-4372-BE1D-2AEBFE843C44.jpg
8403	D219F419-6F4D-4B83-8947-DE03FE9DCA2E.jpg; 90EB36D3-A9BE-4224-89C0-8CAFFF7736FE.jpg	939C0A46-B268-4E28-BFC6-733E6593E5FE.jpg
8404	9BE0BFB1-AD35-48C1-9FF1-6132AD05E5F6.jpg; B8BE2317-4295-4FD1-BFF3-3C8F1422DEC3.jpg; D97066FD-210E-40AE-BDEF-134C0325D47C.jpg	5531E87D-6B03-478B-AA35-EF5AF759FED6.jpg

Appendix 7: Full stratigraphic register

The following table lists all of the stratigraphic relationships recorded on site, both physical and primary. See Appendix 1 – Context register for primary stratigraphic relationships.

CONTEXT	RELATIONSHIP	RELATED CONTEXT (below/above)	BOUNDARY	EDGE
4167	SEALED BY	4167	MERGING	
4167	SEALED BY	4060		
4168	BUTTS	4058		
4169	BUTTS	4170		
4169	SEALED BY	4152		
4169	BUTTS	3951		
4170	BUTTS	3874		
4170	BUTTED BY	4169		
4171	SEALED BY	4074		
4172	BUTTS	4072		
4172	SEALED BY	4074		
4172	BUTTS	4073		
4173	SEALED BY	4060	MERGING	Even
4173	BUTTS	4058	SHARP	Even
4173	BUTTS	4075		
4174	SEALED BY	4036		
4174	BUTTS	1042		
4174	SEALED BY	4113		
4175	SEALED BY	4174	SHARP	Even
4176	SEALED BY	4092		
4177	BUTTS	1038		
4177	SEALS	4186		
4177	SEALED BY	3944		
4177	BUTTS	4131		
4178	BUTTED BY	4179		
4178	BUTTED BY	4177		
4178	SEALED BY	3994		
4179	SEALED BY	3944		
4180	SEALED BY	4166		
4181	SEALED BY	4176		
4182	SEALED BY	4074		
4182	BUTTED BY	4183		
4183	SEALED BY	3944		
4183	BUTTS	4182		
4183	BUTTS	4185		
4183	BUTTS	4184		
4184	BUTTED BY	4186		
4184	BUTTED BY	4183		

CONTEXT	RELATIONSHIP	RELATED CONTEXT (below/above)	BOUNDARY	EDGE
4185	BUTTED BY	4186		
4185	BUTTED BY	4183		
4186	BUTTS	3941		
4186	BUTTS	4184		
4186	BUTTS	1038		
4187	BUTTED BY	4183		
4187	BUTTS	4185		
4187	BUTTS	4188		
4188	BUTTED BY	4186		
4188	BUTTED BY	4187		
4188	BUTTED BY	4189		
4189	BUTTS	4188		
4189	BUTTED BY	4186		
4190	SEALED BY	4181		
4191	BUTTS	4175		
4192	BUTTS	3794		
4192	BUTTS	4193		
4192	BUTTS	4071		
4192	SEALED BY	4067		
4192	BUTTS	4067		
4193	SEALED BY	4193		
4193	SEALED BY	4067		
4193	BUTTED BY	4192		
4194	BUTTS	4131		
4194	BUTTS	4072		
4194	SEALED BY	4067		
4194	SEALS	4193		
4194	BUTTS	3902		
4195	BUTTS	4071		
4195	SEALED BY	4171		
4195	BUTTS	4073		
4195	BUTTS	402		
4195	SEALED BY	4172		
4196	BUTTS	4072		
4196	SEALED BY	4195		
4196	BUTTS	4073		
4196	BUTTS	4071		
4197	SEALED BY	3944		
4198	SEALED BY	4180		
4198	BUTTS	4099		
4199	BUTTS	1042		
4200	BUTTS	4169		
4200	BUTTS	3531		

CONTEXT	RELATIONSHIP	RELATED CONTEXT (below/above)	BOUNDARY	EDGE
4200	BUTTS	3951		
4201	BUTTS	4137		
4201	SEALED BY	4316		
4202	SEALED BY	4156		
4202	BUTTS	4129		
4202	SEALS	4203		
4203	SEALED BY	4202		
4205	SEALED BY	4200		
4206	SEALED BY	4200		
4206	BUTTS	3951		
4206	BUTTS	1100		
4207	BUTTED BY	3617	SHARP	
4208	SEALED BY	4190	MERGING	
4209	BUTTS	1023		
4209	SEALED BY	1019		
4209	BUTTED BY	4210		
4210	BUTTS	4209		
4210	SEALED BY	1019		
4211	SEALED BY	4207	SHARP	
4212	SEALED BY	3802	SHARP	
4212	BUTTS	3984	SHARP	
4213	BUTTS	4134		
4213	SEALED BY	4175		
4214	BUTTS	4129	SHARP	
4214	SEALED BY	4060	SHARP	
4215	SEALED BY	3722		
4215	SEALS	4066		
4216	SEALED BY	4056	MERGING	
4217	SEALED BY	4060	MERGING	
4218	BUTTS	4212		
4218	BUTTS	4203	SHARP	
4218	SEALED BY	4202	SHARP	
4220	SEALED BY	3801		
4220	BUTTS	4212	SHARP	
4221	SEALED BY	3938	SHARP	Even
4221	SEALED BY	1103	SHARP	
4221	SEALED BY	3937	SHARP	Even
4223	BUTTS	4058		
4224	SEALED BY	4157		Diffuse
4225	BUTTED BY	4129		
4225	BUTTED BY	4229		
4226	SEALED BY	4208	MERGING	
4227	BUTTS	4212	MERGING	

CONTEXT	RELATIONSHIP	RELATED CONTEXT (below/above)	BOUNDARY	EDGE
4228	SEALED BY	3801		
4229	SEALED BY	4136	SHARP	
4229	BUTTS	4225	SHARP	
4229	BUTTS	4129	SHARP	
4230	SEALED BY	4161	SHARP	
4232	SEALED BY	3944		
4233	SEALS	1133		
4233	SEALS	3963		
4233	SEALS	3969		
4235	BUTTS	3976		
4235	BUTTS	4203		
4235	SEALED BY	4156	SHARP	
4236	SEALED BY	3617		
4236	BUTTS	4134		
4236	SEALED BY	4204		
4236	BUTTS	1042		
4237	BUTTED BY	4237		
4238	BUTTS	3951		
4238	BUTTS	3600		
4238	SEALED BY	4239	SHARP	
4239	SEALED BY	4238		
4240	BUTTS	3722	SHARP	
4240	SEALED BY	4123	SHARP	
4241	SEALED BY	4212	SHARP	
4242	SEALED BY	4212	SHARP	
4242	BUTTS	4241		
4243	BUTTS	4237	SHARP	
4243	SEALED BY	4015	SHARP	
4243	SEALED BY	4015	SHARP	
4244	BUTTS	1045	SHARP	Even
4246	SEALED BY	4221		
4246	BUTTS	1136		
4246	SEALS	4247		
4246	BUTTS	1133		
4247	SEALED BY	4248		
4247	BUTTS	1133		
4247	BUTTS	1136		
4248	SEALS	4247		
4248	BUTTS	1133		
4248	BUTTS	1136		
4249	BUTTED BY	4250		
4249	BUTTED BY	3780		
4249	SEALED BY	3946	SHARP	

CONTEXT	RELATIONSHIP	RELATED CONTEXT (below/above)	BOUNDARY	EDGE
4249	BUTTED BY	4238		
4250	BUTTS	4249		
4250	SEALED BY	4238		
4250	SEALS	4252		
4251	BUTTS	4252		
4251	SEALED BY	4249		
4252	SEALED BY	4249		
4252	SEALED BY	4250		
4253	SEALED BY	4096		
4253	SEALED BY	4096	SHARP	Even
4254	SEALED BY	4192		
4254	SEALED BY	4192		
4255	SEALED BY	4192		
4255	SEALED BY	4192		
4256	SEALED BY	4192		
4256	BUTTED BY	4254		
4256	SEALED BY	4107		
4256	SEALED BY	4192		
4256	BUTTS	4071	SHARP	Even
4256	BUTTS	4071		
4256	BUTTED BY	4254		
4257	BUTTS	3722		
4257	SEALED BY	4192		
4257	SEALED BY	4192		
4257	BUTTS	4073		
4257	BUTTS	4073	SHARP	Even
4257	BUTTS	3722		
4258	SEALED BY	4107		
4258	BUTTS	4134		
4258	SEALED BY	4107		
4258	BUTTS	4134		
4259	BUTTS	4134		
4260	SEALED BY	4259		
4260	BUTTS	4261		
4261	BUTTS	4134		
4262	BUTTS	4041	SHARP	Even
4262	SEALED BY	4042	SHARP	
4262	BUTTS	4035	SHARP	Even
4262	BUTTS	4035		
4262	BUTTS	4041	SHARP	
4263	SEALED BY	4262		
4263	SEALED BY	4275		
4264	SEALED BY	4247	SHARP	

CONTEXT	RELATIONSHIP	RELATED CONTEXT (below/above)	BOUNDARY	EDGE
4264	BUTTS	11	SHARP	Even
4265	SEALED BY	4115	MERGING	
4266	SEALED BY	4252		
4266	SEALED BY	4252	SHARP	Even
4267	BUTTED BY	4252	SHARP	
4267	SEALED BY	4249	SHARP	
4268	BUTTS	4267	SHARP	
4268	SEALED BY	4253	SHARP	
4269	BUTTED BY	4267	SHARP	
4269	SEALED BY	4253	SHARP	
4270	SEALED BY	4205		
4270	SEALS	4270		
4271	SEALED BY	4269		
4272	SEALED BY	4175	MERGING	
4273	SEALED BY	4211	SHARP	
4273	BUTTS	4272	MERGING	
4273	BUTTS	4134	SHARP	
4274	SEALED BY	4211		
4275	SEALED BY	4204	MERGING	
4276	BUTTS	1136		
4276	SEALED BY	4246	SHARP	
4277	SEALED BY	3988	SHARP	Even
4278	SEALED BY	4240	MERGING	
4279	SEALED BY	4258	MERGING	Diffuse
4279	BUTTS	4134	SHARP	
4280	SEALED BY	4262		
4280	SEALED BY	4275	SHARP	
4281	SEALED BY	4039		
4282	SEALED BY	4272	SHARP	
4282	SEALED BY	4274	SHARP	
4283	SEALED BY	4265	MERGING	
4284	SEALED BY	4196	SHARP	
4285	SEALED BY	4214		
4286	SEALED BY	4274		
4287	SEALED BY	4277		
4288	BUTTS	3864		
4289	BUTTS	3846	MERGING	
4289	SEALED BY	3865	MERGING	
4289	BUTTS	4288	MERGING	
4289	BUTTS	4290	MERGING	
4290	BUTTED BY	4289		
4290	SEALED BY	3865		
4290	BUTTS	3722		

CONTEXT	RELATIONSHIP	RELATED CONTEXT (below/above)	BOUNDARY	EDGE
4291	SEALED BY	4287		
4291	BUTTS	1136		
4292	SEALED BY	4241		
4293	SEALED BY	4268	SHARP	
4295	SEALED BY	4288		
4296	BUTTED BY	4288		
4297	SEALED BY	4295		
4298	BUTTS	1136		
4298	BUTTED BY	4291		
4299	BUTTS	4298		
4299	SEALED BY	3988	SHARP	
4300	SEALED BY	4297		
4301	SEALED BY	4212		
4302	SEALED BY	4218		
4303	SEALED BY	3790		
4303	BUTTS	3799		
4303	BUTTS	4242		
4304	SEALED BY	4302		
4304	BUTTS	4242		
4304	BUTTS	3799		
4305	BUTTED BY	4238		
4305	SEALED BY	4265		
4306	BUTTS	1042		
4307	SEALED BY	4265		
4307	BUTTED BY	4265		
4308	SEALED BY	4283		
4309	SEALED BY	4298		
4310	BUTTS	4311		
4310	BUTTS	4286		
4310	SEALED BY	4282		
4311	BUTTED BY	4310		
4311	SEALED BY	4282		
4312	SEALED BY	4033		
4312	BUTTS	4035		
4313	SEALED BY	4300		
4314	BUTTED BY	4315		
4315	BUTTS	4316		
4315	BUTTS	4193		
4315	BUTTS	4314		
4316	SEALED BY	4314		
4316	SEALED BY	4315		
4317	SEALED BY	4315		
4317	BUTTS	4316		

CONTEXT	RELATIONSHIP	RELATED CONTEXT (below/above)	BOUNDARY	EDGE
4317	BUTTS	4314		
4318	SEALED BY	4069		
4318	BUTTS	4071		
4319	BUTTED BY	4318		
4319	BUTTS	4193		
4320	BUTTS	3722		
4320	SEALED BY	4069		
4320	SEALED BY	4192		
4321	BUTTS	4073		
4321	SEALED BY	4196		
4321	SEALS	4284		
4321	BUTTS	4072		
4321	BUTTS	4071		

Appendix 8: List of samples

SF	Context	Sample Type	Description
7571	4094	Bulk	Ashy hearth material
7572	4151	Bulk	Ash deposit
7573	4115	Bulk	Carbonised remains, 2 bags
7574	4152	Bulk	Environmental deposit, for radiocarbon dating, 2 bags
7575	4159	Bulk	charcoal rich area around hearth in Structure 5, possible radiocarbon potential
7576	4166	Bulk	charcoal flecking in corridor, environmental remains, possible dating, 2 bags
7577	4152	Bulk	environmental remains, charcoal, some evidence of animal burrowing
7578	4167	Bulk	fill of flue, clay rich, burnt daub
7579	4113	Bulk	ashy material around hearth in structure 5, possible radiocarbon dating
7580	4173	Spot	Hand flint for c14 dating
7581	4108	Bulk	floor surface in Structure 5, 2 bags
7582	4180	Bulk	Environmental remains, 2 bags
7583	4115	Bulk	floor surface in Structure 5
7584	4157	Bulk	shell midden
7585	4190	Bulk	burnt ashy charcoal from side cell in Structure 5, c14
7586	4198	Bulk	Environmental remains
7587	4200	Bulk	Environmental remains
7588	4183	Bulk	ashy deposit overlying hearth in Structure 6
7589	4173	Bulk	area in front of furnace
7590	4201	Bulk	area in front of furnace
7591	4198	Bulk	charcoal and bone layer above flag surface next to whale bone pivot, environmental
7592	4190	Bulk	charcoal, environmental remains from cell in Structure 5
7593	4207	Bulk	Environmental remains, possible dating potential
7594	4207	Spot	Concentration of charcoal
7595	4208	Bulk	burnt material, charcoal
7596	4213	Spot	ash layer from hearth in Structure 5
7597	4218	Bulk	Environmental remains
7598	4218	Bulk	Environmental remains
7599	4175	Bulk	half of hearth from Structure 5, charcoal, possible dating potential
7600	4219	Bulk	material from around furnace above SF7934, looking for metalworking evidence
7931	3780	Spot	burnt material
7932	4218	Bulk	Environmental remains
7933	4220	Spot	sealed deposit overlying hearth near passageway
7934	4219	Bulk	Material from under furnace, looking for metalworking evidence, below SF 7600
7935	3801	Spot	deposit of ashy red clay overlying hearth
7936	4219	Bulk	Furnace material, look for metalworking evidence
7937	4228	Spot	yellow clay in front of hearth
7938	4227	Spot	deposit of clay and pebbles
7939	4221	Bulk	ash box, charcoal rich layer
7940	4225	Spot	Surface next to furnace anvil, for metal residues, 2 bags
7941	4226	Spot	Ashy concentration over hearth slab in Structure 5, possible dating potential
7942	4212	Spot	fired/burnt clay, hearth contents
7943	4236	Bulk	area around anvil in Structure 5, charcoal, possibly rich in hammerscale, possible dating potential

SF	Context	Sample Type	Description
7944	4239	Bulk	ashy deposit from a hearth
7945	4238	Bulk	hearth deposit
7946	4240	Bulk	Under flag north of furnace, charcoal flecking, iron residue 2 bags
7947	4201	Spot	Concentration of limpet shells
7948	4039	Bulk	charcoal rich deposit contains hammerstones, possible hammerscale, possible dating potential
7949	4244	Bulk	ashy layer in Structure 5, possible dating potential
7950	4192	Bulk	charcoal flecking, floor surface 2 bags
7951	4251	Spot	ashy deposit over hearth
7952	4246	Bulk	dried yellow clay with charcoal flecking
7953	4253	Spot	Concentration of fish bone under fallen orthostat
7954	4253	Spot	charcoal flecking under collapsed ortho, possible dating potential, near 2 cats and concentration of fish
7955	4248	Bulk	shillet layer, possible residues?
7956	4197	Bulk	Floor surface with charcoal flecking, possible dating potential
7957	4191	Block	ashy deposit near hearth in Structure 5 Kubiena
7958	4191	Block	ashy deposit near hearth in Structure 5 Kubiena
7959	4258	Block	ashy deposit near hearth in Structure 5 Kubiena
7960	4258	Block	ashy deposit near hearth in Structure 5 Kubiena
8231	4254	Bulk	Structure 6 north room next to hearth
8232	4258	Bulk	ashy deposit
8233	4194	Bulk	Next to hearth, charcoal flecking, possible dating potential
8234	4191	Bulk	ashy hearth material, possible dating potential
8235	4265	Block	ashy floor surface Kubiena from Structure 5
8236	4255	Block	Ashy floor surface in Structure 6 Kubiena
8237	4257	Block	Ashy floor surface in Structure 6 Kubiena
8238	4183	Block	Ashy floor surface in Structure 6 Kubiena
8239	4183	Block	Ashy floor surface in Structure 6 Kubiena
8240	4194	Block	Ashy floor surface in Structure 6 Kubiena
8241	4275	Bulk	Floor surface in Structure 5 check for waterlogging
8242	4275	Block	Floor surface in Structure 5, Kubiena
8243	4273	Bulk	ashy carbon-rich material, possible dating potential
8244	4275	Spot	Structure 5 floor surface, check for waterlogging
8245	4265	Block	ashy floor surface Kubiena from Structure 5
8246	4257	Bulk	Environmental remains, possible dating potential
8247	4265	Bulk	ashy material near hearth in Structure 5, possible dating potential
8248	4272	Bulk	Ashy hearth area in Structure 5
8249	4255	Bulk	charcoal/ash rich material in North room in Structure 6, 2 bags
8250	4275	Spot	small rodent bones
8251	4276	Bulk	Material under wall, environmental remains, artefact recovery, from near Early Iron Age pot
8252	4277	Bulk	Environmental remains, artefact recovery, possible dating potential
8253	4183	Bulk	ash deposit hearth hearth in Structure 6, possible dating potential
8254	4272	Bulk	ashy hearth material, possible dating potential
8255	4268	Bulk	Ash deposit
8256	4279	Bulk	ash deposit
8257	4265	Bulk	ash material butting a wall
8258	4196	Bulk	hearth material

SF	Context	Sample Type	Description
8259	4282	Bulk	Ashy hearth material from Structure 5, possible dating potential
8260	4282	Bulk	ashy hearth material in Structure 5, possible dating potential
8351	4183	Bulk	upper pale mottled material only, near hearth, charcoal flecking, possible dating potential
8352	4287	Bulk	New context under stones, artefact recovery, environmental remains, possible dating potential
8353	4283	Bulk	peat ash - ash box, possible dating potential
8354	4286	ArchMag	sample from Structure 5 hearth
8355	4291	Bulk	Orange material with charcoal flecking, possible dating potential
8356	4301	Bulk	black charcoal-rich environmental remains, possible dating potential
8357	4302	Bulk	Black charcoal-rich environmental remains beneath 4301, possible dating potential
8358	4300	Spot	black sticky residue from near furnace, Cu alloy, bone
8359	4303	Bulk	Black charcoal-rich material, possible dating potential
8360	4314	Spot	underside of whalebone socket, bowl contents

Appendix 9: 3D co-ordinates

[illegible]

Point ID	X (East)	Y (North)	Z (Height)
CP01_2015	337535.6	1029662	5.38
CP01_2015	337535.6	1029662	5.38
CP01_2015	337535.6	1029662	5.38
CP02_2019 00001	337518	1029665	4.016
CP02_2019 00002	337518	1029665	4.0191
CP02_2019 00003	337518	1029665	4.017
CP02_2019 00020	337518	1029665	4.0195
CP02_2019 00035	337518	1029665	4.0131
CP02_2019 00036	337518	1029665	4.0174
CP02_2019 00038	337518	1029665	4.0174
CP02_2019 00055	337518	1029665	4.0153
CP02_2019 00056	337518	1029665	4.0142
CP02_2019 00059	337518	1029665	4.0184
CP02_2019 00063	337518	1029665	4.0183
CP02_2019 00069	337518	1029665	4.0187
CP02_2019 00469	337518	1029665	4.0145
CP02_2019 00555	337518	1029665	4.0274
CP02_2019 00576	337518	1029665	4.0256
CP02_2019 00636	337518	1029665	4.0208
CP02_2019 00731	337518	1029665	4.0183
CP02_2019 00759	337518	1029665	4.0229
CP02_2019 00769	337518	1029665	4.0204
CP02_2019 00800	337518	1029665	4.0227
CP02_2019 00850	337518	1029665	4.0236
CP02_2019 00919	337518	1029665	4.0183
CP02_2019 00929	337518	1029665	4.0187
CP02_2019 00972	337518	1029665	4.0132
CP02_2019 01023	337518	1029665	4.0209
CP02_2019 0229	337518	1029665	4.0204
CP02_2019 0344	337518	1029665	4.0162
CP02_2019 00087	337518	1029665	4.017
CP02_2019 00166	337518	1029665	4.0169
CP02_2019 00200	337518	1029665	4.0187
CP02_2019 00249	337518	1029665	4.0235
CP02_2019 00276	337518	1029665	4.0167
CP02_2019 00302	337518	1029665	4.0183
CP02_2019 00372	337518	1029665	4.0212
CP02_2019 00392	337518	1029665	4.0182
DRG148 1 00031	337534.5	1029658	3.1943
DRG148 2 00032	337534.8	1029657	3.1702
DRG148 3 00033	337533.8	1029656	3.1598
DRG148 4 00034	337533.7	1029657	3.1906
DRG148 5 00052	337534.1	1029657	3.1383

Point ID	X (East)	Y (North)	Z (Height)
DRG150_1 00212	337530.5	1029659	3.3167
DRG150_2 00213	337528.7	1029658	3.3041
DRG151_1 00284	337528.2	1029653	3.7106
DRG151_2 00285	337532.5	1029656	3.7545
DRG152_1 0321	337532.1	1029655	3.9584
DRG152_2 0322	337533.9	1029654	3.953
DRG152_3 0323	337533.9	1029654	4.5614
DRG152_4 0324	337539	1029652	4.6071
DRG153_1 00379	337524.3	1029659	4.0168
DRG153_2 00380	337526.8	1029657	3.9706
DRG154_1 00395	337528.9	1029657	4.0762
DRG154_2 00396	337526.3	1029660	4.1103
DRG156_1 00559	337530	1029652	3.2013
DRG156_2 00560	337530.5	1029649	3.1822
DRG157_1 00895	337528.8	1029659	3.4476
DRG157_2 00896	337529.9	1029656	3.4175
DRG158_1 00991	337534.9	1029657	3.0354
DRG158_2 00992	337535.2	1029656	3.0215
FURPROF01 00545	337524.9	1029659	3.3882
FURPROF02 00546	337525.3	1029658	3.3011
FURPROF03 00547	337525.3	1029658	3.332
FURPROF04 00548	337525.9	1029658	3.3438
FURPROF05 00549	337525.9	1029658	3.3921
FURPROF06 00550	337526.2	1029657	3.1343
FURPROF07 00551	337526.3	1029657	3.3847
LEVEL01 00108	337530.8	1029660	4.3984
LEVEL02 00109	337530.8	1029660	4.364
LEVEL03 00110	337530.7	1029659	4.3132
LEVEL04 00111	337530.9	1029658	4.3628
LEVEL05 00112	337530.8	1029657	4.2576
LEVEL06 00113	337534	1029654	4.1641
LEVEL07 00114	337535	1029653	4.1305
SAM7571 00004	337534.3	1029657	3.1356
SAM7572 00016	337529.8	1029654	3.2036
SAM7573 00027	337535	1029657	3.163
SAM7574 00029	337531.7	1029652	3.0173
SAM7575 00064	337534.1	1029656	3.1096
SAM7576 00118			
SAM7576 00131	337531.5	1029654	3.1952
SAM7577 00117			
SAM7577 00130	337531.8	1029651	2.9683
SAM7578 00119			
SAM7578 00133	337526.5	1029657	3.142

Point ID	X (East)	Y (North)	Z (Height)
SAM7579 00125			
SAM7579 00129	337534.6	1029657	3.0934
SAM7580 00185	337526.2	1029658	3.138
SAM7581 00211	337533.3	1029657	2.986
SAM7582 0222	337531.4	1029654	3.1645
SAM7583 0224	337535	1029656	2.9893
SAM7584 00243	337530	1029654	3.1026
SAM7585 00275	337534.5	1029654	2.8413
SAM7586 00286	337531.4	1029654	2.9597
SAM7587 00287	337531.4	1029652	2.9341
SAM7588 0318	337529.3	1029658	3.1425
SAM7589 0340	337526.6	1029657	3.149
SAM7590 0341	337526.1	1029657	3.1396
SAM7591 0348	337530.9	1029655	3.016
SAM7592 0349	337534.7	1029654	2.886
SAM7593 0361	337533.7	1029658	3.0201
SAM7594 0362	337533.4	1029658	3.0601
SAM7595 00383	337534.6	1029654	2.8898
SAM7596 00382	337533.5	1029658	3.0347
SAM7597 000417	337527.2	1029656	3.1893
SAM7598 000418	337528.1	1029656	3.2391
SAM7599 00434	337534.4	1029656	3.0257
SAM7600 00470	337525.4	1029658	3.287
SAM7604 00017	337531.3	1029653	3.1219
SAM7605 00018	337531.4	1029653	3.0761
SAM7606 00019	337532.6	1029651	3.0299
SAM7931 00461	337528.8	1029653	2.9266
SAM7932 00465	337527.9	1029656	3.1894
SAM7933 00468	337529.4	1029655	3.2494
SAM7935 00509	337529.1	1029656	3.2441
SAM7936 00493	337525.7	1029658	3.1242
SAM7937 00508	337528.9	1029655	3.2555
SAM7938 00527	337528.3	1029656	3.1881
SAM7939 00531	337530.7	1029651	2.6618
SAM7941 00528	337534.4	1029654	2.8824
SAM7942 00557	337528.9	1029655	3.2444
SAM7943 00568	337533.6	1029659	3.075
SAM7944 00610	337529.9	1029653	3.1094
SAM7945 00663	337529.9	1029652	3.0469
SAM7946 00697	337525.3	1029659	3.2546
SAM7947 00654	337525.6	1029657	3.0497
SAM7948 00664	337535.2	1029655	2.9115
SAM7949 00676	337532.3	1029659	3.0668

Point ID	X (East)	Y (North)	Z (Height)
SAM7950 00724	337528.4	1029660	3.1291
SAM7951 00734	337530	1029652	3.021
SAM7952 00738	337530.7	1029651	2.6144
SAM7953 00735	337529.9	1029656	3.1898
SAM7954 00741	337530.6	1029656	3.1088
SAM7955 00740	337530.3	1029651	2.3881
SAM7956 00763	337529.7	1029656	3.0103
SAM7957 00764	337532.9	1029657	2.946
SAM7958 00765	337532.7	1029657	2.9451
SAM7959 00768	337531.7	1029657	2.9088
SAM7960 00767	337531.7	1029658	2.9456
SAM7968 00460	337529.4	1029655	3.2813
SAM7999 00742	337529.3	1029654	3.1434
SAM8077 00805	337533.9	1029655	2.8728
SAM8232 00779	337531.9	1029658	2.9697
SAM8233 00766	337530.1	1029659	3.1768
SAM8234 00761	337533.1	1029656	2.9739
SAM8235 00783	337535.1	1029656	2.9458
SAM8236 00787	337528.3	1029659	3.1078
SAM8238 00777	337529.3	1029658	3.0947
SAM8239 00778	337529.5	1029658	3.0591
SAM8240 00776	337529.8	1029659	3.1259
SAM8241 00804	337533.6	1029655	2.8748
SAM8242 00803	337533.7	1029655	2.8763
SAM8243 00794	337533.8	1029658	3.0345
SAM8245 00784	337534.8	1029656	2.9621
SAM8246 00785	337529.6	1029660	3.0781
SAM8247 00791	337534.9	1029656	2.9874
SAM8248 00792	337534.2	1029657	3.0007
SAM8249 00802	337533.5	1029655	2.8341
SAM8249 00823	337528.1	1029659	3.0945
SAM8250 00801	337533.4	1029654	2.8871
SAM8251 00773	337529.6	1029660	3.1664
SAM8251 00843	337529.7	1029651	2.4186
SAM8252 00842	337529.5	1029652	2.3909
SAM8253 00868	337529.4	1029658	3.1197
SAM8254 00870	337534.4	1029657	3.003
SAM8255 00866	337529.7	1029656	3.0081
SAM8256 00861	337531.9	1029657	2.9058
SAM8257 00786	337527.6	1029660	3.1312
SAM8257 00871	337534.9	1029656	2.9666
SAM8258 00905	337529.1	1029659	3.1593
SAM8259 00920	337533.9	1029657	2.9852

Point ID	X (East)	Y (North)	Z (Height)
SAM8260 00924	337533	1029657	2.9601
SAM8351 00938	337529.2	1029657	3.0993
SAM8352 00941	337529.9	1029652	2.3351
SAM8353 00946	337534.9	1029656	2.9122
SAM8355 00952	337528.9	1029651	2.2386
SAM8356 01000	337528	1029656	3.1611
SAM8357 01009	337527.7	1029656	3.1489
SAM8360 01034	337530	1029659	2.9786
SF7601 00013	337534.5	1029655	2.9365
SF7602 00014	337530.1	1029655	3.3585
SF7603 00015	337530.9	1029653	3.0707
SF7607 00024	337529.5	1029654	3.2165
SF7609 00021	337530	1029657	3.5026
SF7610 00022	337529.7	1029656	3.4809
SF7611 00023	337534.8	1029657	3.1851
SF7612 00026	337534.9	1029657	3.1539
SF76120 00057	337527.9	1029657	3.2536
SF7613 00025	337529.5	1029657	3.5412
SF7614 00028	337531.6	1029653	3.023
SF7615 00030	337532.3	1029652	3.0046
SF7616 00037	337525.4	1029655	2.9089
SF7618 00054	337531.7	1029652	2.9829
SF7619 00053	337527.8	1029656	3.191
SF7621 00058	337534	1029657	3.1605
SF7622 00061	337527.4	1029660	3.1666
SF7623 00060	337527.6	1029657	3.2382
SF7624 00062	337524	1029657	3.2379
SF7625 00065	337534	1029657	3.0956
SF7626 00066	337534	1029657	3.046
SF7627 00067	337534	1029657	3.0598
SF7628 00068	337531.9	1029653	2.9458
SF7629 00071	337527.8	1029657	3.2358
SF7630 00072	337527.8	1029657	3.2172
SF7631 00073	337527.7	1029657	3.2328
SF7632 00070	337528.1	1029657	3.1966
SF7633 00074	337531.3	1029655	3.2424
SF7634 00083	337528.2	1029657	3.1499
SF7635 00085	337527.8	1029656	3.1812
SF7636 00086	337526.9	1029656	3.2648
SF7637 00102	337525.9	1029659	3.3807
SF7638 00104	337525.9	1029658	3.3695
SF7639 00103	337525.7	1029659	3.3266
SF7640 00105	337525.8	1029658	3.3527

Point ID	X (East)	Y (North)	Z (Height)
SF7641 00106	337525.6	1029658	3.3093
SF7642 00107	337525.4	1029658	3.3342
SF7643 00120			
SF7643 00144	337525.2	1029658	3.2971
SF7644 00122			
SF7644 00147	337524.8	1029657	3.2318
SF7645 00123			
SF7645 00146	337526	1029659	3.3867
SF7646 00121			
SF7646 00145	337525.4	1029658	3.2701
SF7647 00176	337526.7	1029656	3.2143
SF7648 00177	337526.9	1029656	3.1723
SF7649 00180	337526.5	1029658	3.1625
SF7650 00181	337526.3	1029657	3.1271
SF7651 00182	337526.3	1029658	3.1556
SF7652 00183	337526.3	1029657	3.1565
SF7653 00184	337526.4	1029658	3.1716
SF7654 00186	337526.5	1029658	3.1176
SF7655 00187	337526.3	1029658	3.1238
SF7656 00188	337526.4	1029658	3.0985
SF7657 00189	337526.4	1029657	3.1294
SF7658 00190	337526.6	1029658	3.1545
SF7659 00191	337526.1	1029658	3.1493
SF7660 00197	337526.3	1029658	3.1271
SF7662 00084	337527.8	1029657	3.1575
SF7664 00194	337526.8	1029658	3.1471
SF7665 00195	337526.4	1029658	3.0827
SF7666 00193	337526.7	1029658	3.1359
SF7667 00196	337526.1	1029658	3.1219
SF7668 00204	337530.2	1029657	2.9576
SF7669 00205	337525.7	1029657	3.1332
SF7670 0223	337533.8	1029657	3.0266
SF7671 00242	337531.7	1029652	2.9297
SF7672 00244	337531.9	1029652	2.9329
SF7673 00252			
SF7674 00245	337532.4	1029651	2.8749
SF7675 00246	337532.2	1029651	2.9004
SF7676 00251	337532.5	1029657	3.0039
SF7677 00247	337532.4	1029651	2.9235
SF7678 00254	337533.1	1029657	3.0391
SF7679 00273	337532.1	1029657	2.9529
SF7680 00271	337532.2	1029657	2.99
SF7681 00267	337533.1	1029658	3.0618

Point ID	X (East)	Y (North)	Z (Height)
SF7682 00272	337532.2	1029657	2.9452
SF7683 00090	337531.9	1029652	3.0141
SF7685 00088	337531.9	1029652	3.024
SF7686 00089	337532	1029652	3.0078
SF7687 00091	337532.2	1029652	3.0054
SF7688 00092	337532	1029652	2.9965
SF7689 00093	337532.2	1029652	3.007
SF7690 00116			
SF7690 00135	337531.9	1029652	2.9996
SF7691 00115			
SF7691 00134	337531.8	1029652	2.9804
SF7692 00124			
SF7693 00136	337531.5	1029651	2.9884
SF7694 00126			
SF7694 00132	337531.8	1029655	3.2561
SF7695 00127			
SF7695 00128	337534.8	1029657	3.0743
SF7696 00138	337526.4	1029658	3.2091
SF7697 00139	337526.4	1029658	3.2213
SF7698 00143	337526.3	1029658	3.182
SF7699 00142	337526.3	1029658	3.2019
SF7700 00141	337526.3	1029658	3.1926
SF7704 00140	337526.3	1029658	3.1918
SF7705 00148	337526.1	1029657	3.1966
SF7706 00161	337526.3	1029657	3.2045
SF7707 00160	337526.4	1029657	3.1912
SF7708 00137	337532.2	1029651	2.9511
SF7709 00165	337532.2	1029651	2.9199
SF7710 00157	337534.4	1029658	3.0827
SF7711 00158	337534.2	1029658	3.0751
SF7711 00159			
SF7712 00164	337532.3	1029651	2.9415
SF7713 00163	337532.3	1029651	2.9606
SF7714 00162	337532	1029655	3.2529
SF7715 00167	337528.7	1029659	3.2157
SF7716 00179	337530.8	1029652	3.0509
SF7717 00192	337531.3	1029654	3.1893
SF7718 00178	337531.9	1029654	3.1821
SF7719 00199	337532.3	1029652	3.002
SF7720 00198	337534.2	1029654	3.0437
SF7721 00268	337532.6	1029657	2.9968
SF7722 00269	337532.4	1029657	3.0031
SF7723 00274	337532.5	1029657	2.9702

Point ID	X (East)	Y (North)	Z (Height)
SF7724 00278	337534.8	1029654	2.9492
SF7725 00277	337533.9	1029658	3.043
SF7726 00279	337534	1029658	3.2174
SF7727 00280	337534	1029658	3.2054
SF7728 00282	337533.6	1029658	3.1279
SF7729 00283	337533.5	1029658	3.0825
SF7730 00290	337530.1	1029654	3.0385
SF7731 00295	337529.4	1029656	3.2773
SF7733 00289	337531.6	1029654	2.9717
SF7734 00291	337531.1	1029652	2.9068
SF7735 00294	337531.7	1029654	2.9498
SF7736 00296	337527.5	1029656	3.1828
SF7737 00292	337531.6	1029651	2.8339
SF7738 00293	337531.9	1029651	2.8398
SF7739 00281	337527.5	1029659	3.1688
SF7740 00299	337531.2	1029653	2.9219
SF7741 00300	337532.4	1029651	2.8783
SF7742 00298	337532.1	1029654	2.9543
SF7743 00301	337530.1	1029654	3.0421
SF7744 00297	337532.1	1029654	2.9638
SF7746 0328	337531.6	1029651	2.7847
SF7747 0333	337526	1029657	3.3207
SF7748 0334	337526.1	1029657	3.1681
SF7749 0335	337526.3	1029657	3.1706
SF7750 0338	337526.2	1029657	3.1234
SF7751 0339	337526.4	1029657	3.1292
SF7752 0343	337526.5	1029657	3.153
SF7753 0345	337530.8	1029655	3.0043
SF7754 0347	337530.6	1029655	3.0033
SF7755 0346	337534	1029658	3.0522
SF7757 00201	337534.7	1029653	2.9682
SF7758 00202	337533.6	1029656	3.0165
SF7759 00203	337533.4	1029656	2.967
SF7760 00206			
SF7760 00207			
SF7760 00210	337533.1	1029656	2.9626
SF7761 00208	337533.1	1029656	2.9707
SF7762 00209	337533	1029656	2.9576
SF7763 0225	337532.6	1029656	2.9898
SF7764 0228	337530.8	1029655	3.1751
SF7765 0226	337532.7	1029657	2.9751
SF7766 0227	337531.2	1029654	3.1175
SF7768 00238	337534.4	1029654	3.0578

Point ID	X (East)	Y (North)	Z (Height)
SF7769 00240	337530.6	1029654	3.0239
SF7770 00241	337530.6	1029653	3.0467
SF7771 00239	337526.9	1029660	3.1206
SF7772 00250	337527.3	1029659	3.1546
SF7774 00270	337532.5	1029657	3.0235
SF7775 00403	337530	1029650	2.3798
SF7776 00394	337525.7	1029658	3.3951
SF7777 00400	337525.6	1029658	3.2037
SF7778 00397	337525.8	1029658	3.2898
SF7779 00248	337529.9	1029661	3.1565
SF7780 00253	337532.2	1029654	3.063
SF7781 00398	337525.8	1029658	3.3548
SF7782 00402	337525.8	1029658	3.3251
SF7783 00401	337525.7	1029658	3.2409
SF7784 0350	337533.7	1029658	3.165
SF7785 0351	337533.4	1029658	3.0414
SF7786 00381	337524.1	1029656	3.0094
SF7787 00399	337525.4	1029658	3.2685
SF7788 00406	337527.8	1029656	3.2123
SF7789 00405	337527.5	1029656	3.1963
SF7790 00407	337528	1029657	3.1791
SF7791 00404	337525.8	1029659	3.3614
SF7803 00288	337533.6	1029658	3.1364
SF7808 0330	337530	1029655	3.1431
SF7809 0329	337530.1	1029656	3.1129
SF7810 0332	337531.9	1029651	2.8825
SF7811 0331	337531.9	1029652	2.9298
SF7812 0337	337532	1029651	2.8614
SF7813 0336	337531.6	1029651	2.8749
SF7814 0342	337530.8	1029655	3.0724
SF7815 00410	337527.1	1029656	3.2157
SF7816 000420	337526.6	1029656	3.212
SF7817 000419	337526.8	1029656	3.1985
SF7818 00411	337527.2	1029656	3.2377
SF7819 00416	337527.3	1029656	3.2174
SF7822 00444	337526	1029658	3.436
SF7823 00408	337527.5	1029656	3.2057
SF7824 00413	337527.9	1029655	3.2501
SF7825 00445	337525.8	1029658	3.3788
SF7826 00412	337527.5	1029656	3.2233
SF7827 00415	337527.8	1029656	3.2176
SF7828 00414	337527.8	1029656	3.2233
SF7829 00409	337526.9	1029656	3.2271

Point ID	X (East)	Y (North)	Z (Height)
SF7830 00446	337525.9	1029658	3.2415
SF7831 00458	337527.7	1029656	3.2073
SF7832 00457	337527.5	1029656	3.1955
SF7833 00442	337526.3	1029658	3.4954
SF7834 00443	337526.1	1029658	3.5116
SF7835 00447	337526.1	1029658	3.3255
SF7836 00456	337527.5	1029656	3.2226
SF7837 00462	337531.1	1029651	2.7389
SF7838 00463	337531	1029651	2.7424
SF7839 00464	337530	1029652	2.6531
SF7840 00455	337527.3	1029655	3.2064
SF7841 00433	337527.3	1029655	3.2225
SF7842 00459	337527.5	1029657	3.2101
SF7843 00476	337527.4	1029655	3.2143
SF7844 00475	337527.4	1029655	3.1822
SF7845 00474	337527.6	1029655	3.2188
SF7846 00477	337527.3	1029655	3.1983
SF7847 00479	337527.6	1029656	3.1954
SF7848 00305	337531.8	1029651	2.8354
SF7849 00306	337530.2	1029655	3.2072
SF7850 0315	337530.5	1029653	2.9997
SF7851 0316	337531	1029653	2.9687
SF7852 0317	337530.8	1029652	2.9409
SF7853 0319	337531.6	1029652	2.8666
SF7854 00303	337530.3	1029655	3.2718
SF7855 00304	337530.7	1029654	2.9744
SF7856 0325	337531.1	1029653	2.9489
SF7857 0326	337530.8	1029652	2.9406
SF7858 0320	337530.3	1029655	3.2145
SF7859 0327	337531.2	1029653	2.9008
SF7875 00375	337525.9	1029658	3.2787
SF7876 0360	337533.9	1029658	3.056
SF7877 0363	337533.7	1029658	3.0225
SF7879 00373	337525.7	1029658	3.5285
SF7880 00374	337525.7	1029658	3.5355
SF7881 00376	337525.6	1029658	3.5201
SF7882 00377	337525.5	1029657	3.5397
SF7883 00378	337525.6	1029658	3.5267
SF7884 00384	337525.7	1029658	3.4229
SF7885 00385	337525.7	1029658	3.4094
SF7886 00386	337526	1029658	3.4344
SF7887 00390	337525.6	1029658	3.4256
SF7888 00391	337525.5	1029658	3.3554

Point ID	X (East)	Y (North)	Z (Height)
SF7889 00393	337525.8	1029658	3.565
SF7889 00389	337525.8	1029658	3.5573
SF7890 00388	337525.9	1029658	3.5484
SF7894 00387	337525.6	1029658	3.2054
SF7896 00471	337525.7	1029658	3.3209
SF7897 00473	337526	1029658	3.183
SF7898 00481	337526	1029658	3.1765
SF7899 00482	337526	1029658	3.1783
SF7900 00497	337525.8	1029658	3.3304
SF7904 00498	337525.8	1029658	3.3313
SF7905 00496	337525.7	1029658	3.2948
SF7906 00499	337525.8	1029658	3.35
SF7907 00494	337525.5	1029658	3.2465
SF7908 00495	337525.7	1029658	3.2756
SF7909 00500	337525.8	1029659	3.3715
SF7910 00501	337526	1029659	3.3739
SF7911 00502	337525.8	1029658	3.3502
SF7912 00524	337525.9	1029659	3.3596
SF7913 00525	337525.7	1029658	3.3108
SF7914 00519	337525.6	1029658	3.2386
SF7915 00526	337525.7	1029658	3.2997
SF7916 00522	337525.7	1029658	3.3177
SF7917 00523	337525.8	1029659	3.3533
SF7918 00521	337525.7	1029658	3.3155
SF7919 00520	337525.6	1029658	3.276
SF7920 00552	337525.9	1029657	3.2414
SF7921 00553	337525.9	1029657	3.2063
SF7922 00563	337525.1	1029658	3.2539
SF7923 00558	337529.1	1029655	3.2572
SF7924 00571	337533.8	1029659	3.0558
SF7925 00569	337533.3	1029659	3.0371
SF7926 00570	337533.5	1029659	3.0657
SF7927 00580	337533.3	1029659	3.0621
SF7928 00582	337533.5	1029659	3.0341
SF7929 00518	337526.2	1029657	3.3886
SF7930 00611	337529.1	1029654	3.2528
SF7934 00472	337525.8	1029658	3.1329
SF7940 00554	337526.1	1029657	3.1893
SF7961 00452	337526	1029658	3.1992
SF7962 00454	337526.1	1029658	3.1997
SF7963 00453	337526	1029658	3.2338
SF7964 00450	337525.7	1029658	3.3708
SF7965 00451	337525.9	1029658	3.3313

Point ID	X (East)	Y (North)	Z (Height)
SF7966 00449	337525.9	1029658	3.3449
SF7967 00448	337525.9	1029658	3.3447
SF7969 00466	337528	1029656	3.1466
SF7970 00467	337527.5	1029656	3.1916
SF7971 00478	337527.2	1029655	3.211
SF7972 00483	337527.4	1029656	3.1772
SF7973 00484	337527.7	1029656	3.1516
SF7974 00634	337531.5	1029650	2.6708
SF7975 00633	337531	1029651	2.655
SF7976 00612	337529.2	1029655	3.2473
SF7977 00659	337535.1	1029655	2.8902
SF7978 00660	337535.4	1029655	2.9732
SF7979 00661	337535.1	1029655	2.8638
SF7980 00655	337527.9	1029660	3.1769
SF7981 00656	337527.5	1029660	3.1604
SF7982 00480	337529.2	1029652	2.3765
SF7983 00505	337527.6	1029656	3.1523
SF7984 00503	337527.2	1029656	3.1871
SF7985 00506	337528.7	1029655	3.2621
SF7986 00504	337527.4	1029655	3.1512
SF7987 00507	337528.8	1029655	3.2457
SF7988 00543	337527.2	1029655	3.1811
SF7989 00540	337527.2	1029657	3.1818
SF7990 00529	337528.9	1029653	2.8088
SF7991 00544	337527.7	1029656	3.1828
SF7992 00541	337527	1029657	3.1474
SF7993 00542	337526.8	1029657	3.1494
SF7994 00614	337531.3	1029652	2.8257
SF7996 00556	337527.6	1029656	3.1822
SF7997 00530	337530.9	1029651	2.6546
SF7998 00613	337529.1	1029654	3.1975
SF8000 00732	337530.8	1029656	3.085
SF8002 00657	337527.4	1029660	3.1299
SF8003 00658	337527.4	1029660	3.1406
SF8004 00687	337529.6	1029661	3.1479
SF8005 00688	337529.8	1029661	3.129
SF8006 00686	337528.9	1029661	3.1979
SF8007 00685	337528.9	1029661	3.1967
SF8008 00679	337528.5	1029659	3.1707
SF8009 00733	337530.4	1029657	3.1191
SF8010 00737	337531	1029651	2.6007
SF8011 00744	337530.8	1029655	3.0036
SF8019 00700	337525	1029659	3.2631

Point ID	X (East)	Y (North)	Z (Height)
SF8020 00565	337525	1029658	3.2316
SF8021 00567	337524.8	1029659	3.3067
SF8022 00564	337525	1029658	3.2309
SF8023 00566	337524.9	1029659	3.2749
SF8024 00595	337525.7	1029659	3.2988
SF8025 00596	337525.7	1029659	3.3093
SF8026 00597	337525.6	1029659	3.2988
SF8027 00598	337525.6	1029659	3.3261
SF8028 00599	337525.5	1029659	3.3118
SF8029 00594	337525.8	1029659	3.3265
SF8030 00590	337525.4	1029659	3.3131
SF8031 00589	337525.4	1029659	3.3015
SF8032 00591	337525.6	1029659	3.2945
SF8033 00593	337525.8	1029659	3.3231
SF8035 00561	337527.1	1029657	3.1968
SF8036 00562	337526.9	1029657	3.2592
SF8037 00572	337527.2	1029658	3.1375
SF8038 00573	337526.8	1029657	3.1581
SF8039 00574	337526.7	1029657	3.1688
SF8040 00583	337524.8	1029659	3.2615
SF8041 00584	337524.7	1029658	3.2675
SF8042 00626	337525.8	1029657	3.2217
SF8042 00587	337524.9	1029659	3.3407
SF8043 00586	337524.9	1029659	3.3188
SF8044 00575	337526.5	1029657	3.1162
SF8045 00585	337525	1029658	3.2109
SF8046 00579	337533.4	1029658	3.0474
SF8047 00624	337533.1	1029659	3.0371
SF8050 00578	337531.3	1029650	2.7275
SF8051 00600	337526.2	1029659	3.3946
SF8052 00601	337526.2	1029659	3.3784
SF8053 00603	337526	1029659	3.382
SF8054 00627	337526.2	1029659	3.3655
SF8055 00628	337526	1029659	3.3493
SF8056 00629	337525.9	1029659	3.3451
SF8057 00630	337525.7	1029659	3.3354
SF8058 00604	337526.1	1029659	3.3903
SF8059 00602	337526.1	1029659	3.3769
SF8060 00605	337526	1029659	3.369
SF8061 00606	337526.1	1029659	3.3808
SF8062 00577	337531.2	1029650	2.7384
SF8063 00615	337531.3	1029650	2.7547
SF8064 00608	337526.7	1029657	3.0938

Point ID	X (East)	Y (North)	Z (Height)
SF8065 00609	337526.7	1029657	3.1669
SF8066 00607	337526.8	1029658	3.0808
SF8067 00581	337533.2	1029659	3.039
SF8068 00635	337530.3	1029653	3.0852
SF8069 00625	337532.7	1029660	3.0869
SF8073 00760	337532.1	1029659	3.1102
SF8074 00770	337531.2	1029651	2.4694
SF8075 00771	337531.2	1029650	2.5089
SF8076 00772	337529.2	1029660	3.1257
SF8078 00813	337526.2	1029659	3.3342
SF8079 00806	337530.1	1029651	2.4659
SF8080 00817	337525.9	1029659	3.3427
SF8081 00631	337525.8	1029659	3.3348
SF8082 00632	337525.6	1029659	3.311
SF8083 00638	337525.6	1029659	3.2882
SF8083 00639	337525.5	1029659	3.2894
SF8084 00642	337525.2	1029659	3.2722
SF8086 00650	337525	1029659	3.3047
SF8087 00643	337525.2	1029659	3.2738
SF8088 00645	337525.1	1029659	3.2777
SF8089 00644	337525.3	1029659	3.2541
SF8090 00647	337525.1	1029659	3.2581
SF8090 00648	337525	1029659	3.327
SF8091 00649	337524.9	1029659	3.2985
SF8092 00652	337524.7	1029659	3.3092
SF8093 00651	337524.9	1029659	3.2922
SF8094 00646	337525.1	1029659	3.2804
SF8095 00653	337526.1	1029657	3.1596
SF8096 00667	337526.3	1029658	3.2453
SF8097 00637	337525.7	1029659	3.2899
SF8099 00641	337525.3	1029659	3.2547
SF8100 00640	337525.3	1029659	3.2637
SF8101 00669	337525.6	1029659	3.2809
SF8102 00670	337525.4	1029659	3.2891
SF8103 00671	337525.6	1029659	3.2836
SF8104 00668	337525.7	1029659	3.2859
SF8105 00674	337525	1029659	3.3007
SF8106 00675	337525.1	1029659	3.281
SF8107 00666	337525.6	1029658	3.1667
SF8108 00673	337525	1029659	3.2902
SF8109 00665	337525.7	1029658	3.1607
SF8110 00672	337525.2	1029659	3.259
SF8112 00680	337527.5	1029659	3.1226

Point ID	X (East)	Y (North)	Z (Height)
SF8113 00677	337527.8	1029659	3.1333
SF8114 00678	337527.7	1029659	3.1101
SF8115 00682	337527.3	1029660	3.173
SF8116 00714	337534.3	1029658	2.9563
SF8117 00681	337527.6	1029660	3.1449
SF8118 00662	337531.6	1029650	2.5819
SF8118 00703	337524.9	1029659	3.2622
SF8119 00729	337529.3	1029654	3.1585
SF8120 00713	337529.3	1029656	3.3638
SF8121 00715	337529.6	1029661	3.1734
SF8122 00739	337530.4	1029650	2.364
SF8123 00821	337528.2	1029659	3.102
SF8124 00822	337528.4	1029659	3.0879
SF8125 00816	337526	1029659	3.3548
SF8126 00814	337526.1	1029659	3.3149
SF8127 00815	337526	1029659	3.3437
SF8128 00820	337528	1029659	3.0817
SF8129 00824	337525.7	1029659	3.2763
SF8130 00730	337529.2	1029654	3.1386
SF8131 00834	337526.1	1029659	3.2886
SF8132 00835	337525.9	1029659	3.2693
SF8133 00836	337525.8	1029659	3.2927
SF8134 00837	337525.7	1029659	3.2738
SF8135 00701	337525	1029659	3.2685
SF8136 00698	337525.2	1029659	3.2534
SF8137 00706	337525.2	1029659	3.2452
SF8138 00699	337525.1	1029659	3.2624
SF8139 00704	337525.1	1029659	3.2462
SF8140 00702	337524.9	1029659	3.2838
SF8141 00705	337525.2	1029659	3.2557
SF8142 00707	337525.3	1029659	3.2408
SF8143 00683	337528	1029660	3.1276
SF8144 00684	337528.2	1029661	3.1685
SF8145 00708	337525.2	1029658	3.2478
SF8146 00709	337525.1	1029658	3.234
SF8147 00712	337524.8	1029659	3.2917
SF8148 00711	337524.8	1029659	3.302
SF8149 00710	337525.1	1029659	3.2399
SF8150 00726	337525.4	1029659	3.3121
SF8151 00728	337525.1	1029657	3.2467
SF8152 00727	337525.3	1029659	3.3172
SF8153 00716	337529.1	1029661	3.1783
SF8154 00722	337528.1	1029660	3.1201

Point ID	X (East)	Y (North)	Z (Height)
SF8155 00717	337527.3	1029660	3.1833
SF8156 00718	337527.3	1029660	3.1652
SF8157 00723	337528	1029659	3.1187
SF8158 00721	337527.7	1029660	3.1384
SF8159 00720	337527.6	1029660	3.1371
SF8160 00743	337531.1	1029652	2.8066
SF8161 00719	337527.5	1029660	3.1386
SF8162 00736	337530.6	1029656	3.2742
SF8163 00745	337531.5	1029651	2.7207
SF8164 00839	337525.7	1029659	3.2713
SF8165 00746	337532	1029651	2.8253
SF8166 00838	337525.6	1029659	3.2697
SF8167 00833	337527.8	1029659	3.121
SF8168 00854	337525.3	1029659	3.2628
SF8169 00840	337525.7	1029659	3.2654
SF8170 00841	337525.6	1029659	3.2513
SF8173 00762	337531.1	1029651	2.5572
SF8174 00775	337529.3	1029660	3.0859
SF8175 00795	337528.7	1029661	3.112
SF8176 00796	337528.6	1029660	3.0763
SF8177 00798	337528.2	1029660	3.1112
SF8178 00799	337527.2	1029660	3.1639
SF8179 00797	337528.5	1029660	3.0779
SF8180 00818	337527.5	1029660	3.1392
SF8181 00819	337527.5	1029660	3.1268
SF8182 00848	337527.9	1029659	3.1257
SF8183 00846	337528.3	1029659	3.0922
SF8184 00845	337528.3	1029659	3.0934
SF8185 00847	337528.2	1029659	3.0893
SF8186 00855	337525	1029659	3.2627
SF8187 00852	337528.1	1029659	3.0576
SF8188 00851	337528.1	1029659	3.0394
SF8189 00853	337528.1	1029658	3.0279
SF8190 00856	337524.9	1029659	3.2766
SF8191 00863	337531.7	1029657	2.8934
SF8192 00867	337529.6	1029656	3.0242
SF8193 00862	337532.1	1029657	2.9111
SF8194 00872	337529.5	1029657	2.987
SF8195 00873	337529.3	1029657	2.9648
SF8196 00886	337531.4	1029652	2.7516
SF8197 00864	337531.6	1029657	2.8908
SF8198 00921	337528	1029657	3.055
SF8199 00922	337527.6	1029657	3.0745

Point ID	X (East)	Y (North)	Z (Height)
SF8215 00780	337532.2	1029658	3.0314
SF8216 00774	337530.8	1029650	2.4748
SF8217 00781	337531.8	1029658	2.9558
SF8218 00782	337531.4	1029658	2.9122
SF8219 00790	337532	1029651	2.7976
SF8220 00789	337531.6	1029651	2.74
SF8221 00793	337531.9	1029659	2.9884
SF8222 00788	337532	1029652	2.8058
SF8223 00807	337530	1029651	2.4546
SF8224 00844	337528.9	1029652	2.3589
SF8225 00812	337531.7	1029658	2.9067
SF8226 00810	337531.4	1029657	2.9021
SF8227 00811	337531.3	1029657	2.9017
SF8228 00809	337531.9	1029657	2.9038
SF8229 00849	337531.6	1029657	2.9168
SF8230 00808	337532	1029657	2.9169
SF8280 00928	337525.5	1029658	3.2137
SF8281 00923	337526.1	1029659	3.2539
SF8282 00927	337524.5	1029658	3.2293
SF8283 00926	337524.3	1029658	3.2054
SF8284 00925	337525.3	1029656	2.9964
SF8285 00939	337529	1029653	3.0363
SF8286 00865	337531.7	1029657	2.901
SF8287 00942	337529.3	1029657	3.0321
SF8288 00940	337529.3	1029653	3.0159
SF8289 00948	337529.1	1029653	2.9737
SF8290 00943	337526.4	1029659	3.8712
SF8291 00857	337524.8	1029659	3.2777
SF8292 00858	337524.7	1029658	3.2764
SF8293 00859	337524.6	1029659	3.2889
SF8294 00860	337524.7	1029658	3.2676
SF8295 00875	337524.5	1029658	3.2336
SF8296 00869	337530	1029651	2.4726
SF8297 00874	337524	1029658	3.2931
SF8298 00876	337529.6	1029659	3.1353
SF8299 00885	337529.8	1029651	2.4225
SF8300 00916	337525.8	1029659	3.2535
SF8301 00915	337524.1	1029658	3.254
SF8302 00917	337525.8	1029658	3.1538
SF8303 00914	337528.4	1029657	3.16
SF8304 00918	337528.8	1029657	3.285
SF8305 00950	337530.9	1029652	2.8767
SF8306 00951	337531.1	1029652	2.8201

Point ID	X (East)	Y (North)	Z (Height)
SF8307 00958	337531	1029652	2.778
SF8308 00959	337531.2	1029652	2.7801
SF8309 00960	337531.1	1029652	2.7673
SF8310 00961	337531	1029652	2.7778
SF8311 00945	337535	1029656	2.9059
SF8312 00947	337530.5	1029652	2.8443
SF8313 00944	337526.2	1029660	3.6362
SF8314 00949	337530.2	1029655	2.9988
SF8315 00955	337526.3	1029660	3.5574
SF8316 00956	337526.2	1029660	3.5594
SF8317 00957	337526.2	1029660	3.5484
SF8318 00953	337525.9	1029659	3.3587
SF8319 00954	337526.4	1029659	3.8027
SF8320 00969	337531.2	1029652	2.7901
SF8322 00990	337525.9	1029660	3.327
SF8323 01010	337526.2	1029659	3.376
SF8324 00970	337531	1029652	2.7736
SF8325 01011	337525.9	1029659	3.2849
SF8326 01030	337526.1	1029660	3.3284
SF8327 01031	337525.2	1029656	3.002
SF8328 01029	337526.1	1029659	3.3255
SF8329 01032	337525	1029657	3.2443
SF8335 00962	337527.6	1029656	3.1622
SF8336 00964	337527.6	1029656	3.1399
SF8337 00966	337528.2	1029657	3.1485
SF8338 00971	337527.1	1029656	3.1616
SF8339 00987	337528.4	1029657	3.148
SF8340 00983	337526.1	1029659	3.4048
SF8341 00982	337526.2	1029659	3.3705
SF8342 00984	337526.1	1029659	3.4079
SF8343 00963	337526	1029659	3.2744
SF8344 00965	337528.8	1029655	3.2096
SF8345 00968	337525.7	1029659	3.3723
SF8346 00967	337526.1	1029659	3.3427
SF8347 00985	337526.1	1029660	3.3769
SF8348 00986	337526.2	1029660	3.3086
SF8349 01036	337525.3	1029655	2.8902
SF8350 00988	337528.1	1029658	3.0171
SF8358 01024	337526	1029659	3.3144
SF8359 01014	337527.5	1029654	3.1546
SF8366 00989	337529	1029652	2.2576
SF8367 01015	337529.3	1029652	2.281
SF8368 01012	337526.6	1029656	3.166

Point ID	X (East)	Y (North)	Z (Height)
SF8369 01013	337526.5	1029656	3.1498
SF8370 01025	337526.1	1029660	3.3389
SF8371 01028	337525.7	1029659	3.2504
SF8372 01033	337527.3	1029660	3.1052
SF8373 01037	337525.7	1029656	3.0637
SF8382 01026	337525.9	1029659	3.2467
SF8383 01027	337525.9	1029659	3.2552
SF8404 01035	337529.9	1029659	2.9981
SWR242101 00825	337527.3	1029659	3.5861
SWR242102 00826	337527.4	1029659	3.3172
SWR242103 00827	337527.6	1029658	3.3163
SWR242104 00828	337528.2	1029658	3.1324
SWR242105 00829	337528.6	1029658	3.2546
SWR242106 00830	337528.5	1029659	3.2633
SWR242107 00831	337528.3	1029659	3.0795
SWR242108 00832	337527.9	1029659	3.1662
SWR24P1001 0255	337539.4	1029655	4.6602
SWR24P1002 0256	337538.1	1029651	3.993
SWR24P1003 0257	337535	1029648	2.8816
SWR24P1004 0258	337529	1029653	3.0253
SWR24P1004 0259	337529	1029653	3.0272
SWR24P1005 0260	337523.3	1029657	3.0754
SWR24P1006 0261	337524.8	1029660	3.9553
SWR24P1007 0262	337526.3	1029664	4.7034
SWR24P1008 0263	337534.2	1029660	4.7826
SWR24P1009 0264	337535.4	1029654	3.7897
SWR24P101 00005	337531.9	1029657	2.9468
SWR24P1010 0265	337525.9	1029660	4.0983
SWR24P1011 0266	337528.1	1029661	4.2476
SWR24P102 00006	337533.7	1029655	2.9333
SWR24P103 00007	337530.2	1029652	3.148
SWR24P104 00008	337527.6	1029655	3.253
SWR24P1101 0307	337536.8	1029653	4.0666
SWR24P1102 0308	337536	1029653	3.8956
SWR24P1103 0309	337535.2	1029654	3.8432
SWR24P1104 0310	337535.5	1029654	3.6031
SWR24P1105 0311	337535.8	1029655	3.6445
SWR24P1106 0312	337536.4	1029655	3.7386
SWR24P1107 0313	337537.2	1029655	3.8452
SWR24P1108 0314	337537.1	1029654	3.8887
SWR24P1201 0352	337531.7	1029658	2.9946
SWR24P1202 0353	337532.1	1029659	3.1143
SWR24P1203 0354	337532.5	1029659	3.1453

Point ID	X (East)	Y (North)	Z (Height)
SWR24P1204 0355	337533.3	1029658	3.111
SWR24P1205 0356	337534.5	1029658	3.0827
SWR24P1206 0357	337533.6	1029657	3.0259
SWR24P1207 0358	337532.8	1029656	2.9643
SWR24P1208 0359	337532.1	1029658	2.9996
SWR24P1301 0364	337525.9	1029659	3.382
SWR24P1302 0365	337526.8	1029658	3.299
SWR24P1303 0366	337527.3	1029657	3.2544
SWR24P1304 0367	337526	1029656	3.1525
SWR24P1305 0368	337524.8	1029655	2.891
SWR24P1306 0369	337524.1	1029656	3.0406
SWR24P1307 0370	337524.1	1029657	3.1165
SWR24P1308 0371	337524.9	1029658	3.2544
SWR24P1401 00435	337529.1	1029653	3.0316
SWR24P1402 00436	337530.2	1029652	3.149
SWR24P1403 00437	337532.2	1029650	2.9691
SWR24P1404 00438	337533.5	1029649	2.9511
SWR24P1405 00439	337532.1	1029648	2.4312
SWR24P1406 00440	337529.7	1029650	2.368
SWR24P1407 00441	337528.3	1029652	2.7728
SWR24P1501 00485	337528.6	1029653	3.0584
SWR24P1502 00486	337529.2	1029653	3.1379
SWR24P1503 00487	337530.6	1029652	3.1194
SWR24P1504 00488	337532	1029651	2.8745
SWR24P1505 00489	337531.5	1029650	3.1279
SWR24P1506 00490	337529.7	1029650	2.3662
SWR24P1507 00491	337529.1	1029651	2.2477
SWR24P1508 00492	337528.3	1029652	2.7786
SWR24P1601 00510	337535.8	1029655	3.6407
SWR24P1602 00511	337535.3	1029653	3.991
SWR24P1603 00512	337534.8	1029652	3.9129
SWR24P1604 00513	337533.5	1029653	3.9387
SWR24P1605 00514	337533.3	1029654	3.925
SWR24P1606 00515	337533.7	1029655	2.9059
SWR24P1607 00516	337534.5	1029655	2.9768
SWR24P1608 00517	337535.5	1029654	3.6534
SWR24P1701 00532	337529.6	1029655	3.312
SWR24P1702 00533	337528.6	1029654	3.1702
SWR24P1703 00534	337527.3	1029654	3.0993
SWR24P1704 00535	337526.4	1029655	3.1257
SWR24P1705 00536	337526	1029656	3.1544
SWR24P1706 00537	337527.1	1029657	3.1907
SWR24P1707 00538	337528.2	1029657	3.1823

Point ID	X (East)	Y (North)	Z (Height)
SWR24P1708 00539	337528.7	1029656	3.2229
SWR24P1801 00616	337529.4	1029655	3.2577
SWR24P1802 00617	337528.5	1029654	3.1775
SWR24P1803 00618	337527.3	1029654	3.1147
SWR24P1804 00619	337526.3	1029655	3.0225
SWR24P1805 00620	337526.2	1029656	3.2224
SWR24P1806 00621	337527.2	1029657	3.209
SWR24P1807 00622	337528.2	1029657	3.1948
SWR24P1808 00623	337528.8	1029656	3.215
SWR24P1901 00689	337527.7	1029658	3.3057
SWR24P1902 00690	337527.6	1029659	3.3109
SWR24P1903 00691	337527.4	1029659	3.3193
SWR24P1904 00692	337527.9	1029659	3.1696
SWR24P1905 00693	337528.2	1029660	3.142
SWR24P1906 00694	337528.5	1029659	3.2603
SWR24P1907 00695	337528.6	1029659	3.2429
SWR24P1908 00696	337528.2	1029658	3.129
SWR24P2001 00747	337538.1	1029654	4.7543
SWR24P2002 00748	337536.8	1029651	3.925
SWR24P2003 00749	337535.5	1029648	2.9696
SWR24P2004 00750	337530.6	1029650	2.7081
SWR24P2005 00751	337528.4	1029652	2.7674
SWR24P2006 00752	337524.3	1029656	2.9425
SWR24P2007 00753	337524.1	1029659	3.793
SWR24P2008 00754	337526.9	1029663	4.0682
SWR24P2009 00755	337530	1029661	3.162
SWR24P201 00009	337527.6	1029655	3.2482
SWR24P2010 00756	337533.2	1029659	3.0603
SWR24P2011 00757	337534.8	1029656	2.9976
SWR24P2012 00758	337536.2	1029656	3.7517
SWR24P202 00010	337529.6	1029652	3.1289
SWR24P203 00011	337533.6	1029655	2.8893
SWR24P204 00012	337531.7	1029657	2.9377
SWR24P2201 00877	337565.5	1029643	3.8646
SWR24P2202 00878	337568.9	1029640	3.6911
SWR24P2203 00879	337573.5	1029636	3.1545
SWR24P2204 00880	337565.4	1029628	3.7683
SWR24P2205 00881	337554	1029623	3.8132
SWR24P2206 00882	337551.8	1029627	3.5422
SWR24P2207 00883	337551.4	1029629	3.6289
SWR24P2208 00884	337559.8	1029637	4.341
SWR24P2301 00887	337528.6	1029653	3.1303
SWR24P2302 00888	337530.1	1029654	3.0234

Point ID	X (East)	Y (North)	Z (Height)
SWR24P2303 00889	337531.2	1029652	2.8791
SWR24P2304 00890	337533.1	1029651	3.2951
SWR24P2305 00891	337531.8	1029649	2.7607
SWR24P2306 00892	337530.1	1029649	2.3094
SWR24P2307 00893	337529.2	1029650	2.3469
SWR24P2308 00894	337527.5	1029652	2.8634
SWR24P2401 00897	337531.6	1029657	2.9084
SWR24P2402 00898	337531.8	1029658	2.959
SWR24P2403 00899	337532.7	1029659	3.0404
SWR24P2404 00900	337534	1029658	3.014
SWR24P2405 00901	337534.9	1029656	2.9614
SWR24P2406 00902	337534.3	1029655	2.947
SWR24P2407 00903	337532.9	1029655	2.924
SWR24P2408 00904	337531.6	1029655	2.8918
SWR24P2501 00906	337530	1029656	3.0301
SWR24P2502 00907	337529.7	1029656	3.023
SWR24P2503 00908	337528.7	1029658	3.1512
SWR24P2504 00909	337527.9	1029659	3.101
SWR24P2505 00910	337528.8	1029659	3.1207
SWR24P2506 00911	337530.3	1029659	3.1638
SWR24P2507 00912	337530.4	1029657	3.0386
SWR24P2508 00913	337530.5	1029656	3.0038
SWR24P2601 00930	337537.6	1029654	4.3914
SWR24P2602 00931	337536.1	1029651	3.9535
SWR24P2603 00932	337532.6	1029649	2.7748
SWR24P2604 00933	337529.5	1029650	2.3845
SWR24P2605 00934	337523.5	1029657	3.0611
SWR24P2606 00935	337525.1	1029660	3.9113
SWR24P2607 00936	337527	1029663	4.0254
SWR24P2608 00937	337533.1	1029658	3.0509
SWR24P2701 00974	337529.3	1029655	3.1768
SWR24P2702 00975	337528.6	1029656	3.1243
SWR24P2703 00976	337528.2	1029657	3.1483
SWR24P2704 00977	337527.6	1029657	3.182
SWR24P2705 00978	337526.5	1029656	3.1857
SWR24P2706 00979	337527.2	1029656	3.1718
SWR24P2707 00980	337527.7	1029655	3.1959
SWR24P2708 00981	337528.3	1029655	3.2155
SWR24P2801 00993	337525.4	1029659	3.2829
SWR24P2802 00994	337525.7	1029659	3.2728
SWR24P2803 00995	337525.9	1029659	3.2664
SWR24P2804 00996	337526.1	1029659	3.3055
SWR24P2805 00997	337526.2	1029660	3.4518

Point ID	X (East)	Y (North)	Z (Height)
SWR24P2806 00998	337526	1029660	3.4284
SWR24P2807 00999	337525.7	1029659	3.3739
SWR24P2901 01001	337528.4	1029652	2.7924
SWR24P2902 01002	337528.7	1029652	2.8037
SWR24P2903 01003	337528.9	1029653	2.8617
SWR24P2904 01004	337529.5	1029652	2.9444
SWR24P2905 01005	337530.5	1029651	2.7317
SWR24P2906 01006	337530	1029651	2.5832
SWR24P2907 01007	337528.6	1029651	2.5283
SWR24P2908 01008	337527.8	1029651	2.9316
SWR24P3001 01016	337528.6	1029653	3.1236
SWR24P3002 01017	337530.4	1029652	2.8534
SWR24P3003 01018	337531.2	1029651	2.6925
SWR24P3004 01019	337530	1029650	2.3528
SWR24P3005 01020	337529.3	1029650	2.3724
SWR24P3006 01021	337528.9	1029651	2.141
SWR24P3007 01022	337528.4	1029652	2.7616
SWR24P301 00039	337539.4	1029654	4.67
SWR24P302 00040	337536.4	1029650	3.8955
SWR24P303 00041	337535.4	1029648	2.9292
SWR24P304 00042	337531.7	1029650	3.1229
SWR24P304 00043			
SWR24P305 00044	337527.1	1029654	2.9794
SWR24P306 00045	337522.1	1029656	3.156
SWR24P307 00046	337526.2	1029663	4.6198
SWR24P308 00047	337534	1029661	5.2263
SWR24P309 00048	337525.9	1029660	4.0986
SWR24P310 00049	337528.1	1029661	4.2437
SWR24P311 00050	337534	1029660	4.7678
SWR24P312 00051	337533.7	1029650	3.3657
SWR24P401 00075	337535.3	1029656	3.0571
SWR24P402 00076	337534.3	1029656	3.0366
SWR24P403 00077	337533.2	1029656	3.0077
SWR24P404 00078	337533.1	1029657	3.0369
SWR24P405 00079	337532.9	1029658	3.0755
SWR24P406 00080	337533.6	1029658	3.2199
SWR24P407 00081	337534.4	1029658	3.1598
SWR24P408 00082	337535.2	1029657	4
SWR24P601 00149	337523.4	1029657	3.0675
SWR24P602 00150	337525.1	1029661	3.9409
SWR24P603 00151	337526.2	1029664	4.711
SWR24P604 00152	337529.6	1029662	4.8387
SWR24P605 00153	337528.1	1029661	4.2444

Point ID	X (East)	Y (North)	Z (Height)
SWR24P606 00154	337525.9	1029660	4.096
SWR24P607 00155	337529.3	1029660	3.1911
SWR24P608 00156	337527	1029660	3.2044
SWR24P701 00168	337535.7	1029656	3.8725
SWR24P702 00169	337534.1	1029655	2.9498
SWR24P703 00170	337531.6	1029654	3.2049
SWR24P704 00171	337528.8	1029658	3.1819
SWR24P705 00172	337527.6	1029660	3.1909
SWR24P706 00173	337529.8	1029661	3.2007
SWR24P707 00174	337525.9	1029660	4.093
SWR24P708 00175	337528.1	1029661	4.2419
SWR24P801 00214	337534.8	1029652	3.9087
SWR24P802 0215	337533.5	1029653	3.9384
SWR24P803 0216	337533.8	1029655	2.9004
SWR24P804 0217	337535.6	1029655	3.7349
SWR24P805 0218	337534.1	1029654	3.1455
SWR24P806 0219	337535	1029654	3.1498
SWR24P807 0220	337534.2	1029653	3.0286
SWR24P808 0221	337534.6	1029653	3.0058
SWR24P901 0230	337536	1029649	3.2896
SWR24P902 0231	337533.7	1029651	3.298
SWR24P903 0232	337535.4	1029654	3.7849
SWR24P904 0233	337535.9	1029656	3.9078
SWR24P905 0234	337537.7	1029655	4.8569
SWR24P906 0235	337539.5	1029655	4.6332
SWR24P907 0236	337538.1	1029651	3.9912
SWR24P908 0237	337536.6	1029653	4.0463
SWRP501 00094	337531	1029652	3.064
SWRP502 00095	337530.3	1029653	3.1601
SWRP503 00096	337528.8	1029655	3.2558
SWRP504 00097	337529.6	1029655	3.3164
SWRP505 00098	337530.5	1029656	3.3523
SWRP506 00099	337532	1029654	3.2335
SWRP507 00100	337532.7	1029653	2.957
SWRP508 00101	337532	1029653	3.2566

