

Castle Craig 2012

Data Structure Report 2012

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Summary

Excavations at Castle Craig Auchterarder, continued for a second season as part of the SERF project in conjunction with Northlight Heritage. This work was undertaken as part of a wider feasibility study funded by Historic Scotland which is reported in a separate document. The height and condition of the broch walls were revealed within three narrow trenches in the N, W and SE of the site. There was a possible paved surface outside the broch and an internal floor surface of bedrock, cobbles and paving. A substantial outer wall, possibly contemporary with the broch, defended the entrance in the SW. The artefacts found included a Samian sherd of the 1st century AD, a trumpet brooch, Roman glass and a tankard handle of the 1st or 2nd century AD. There was evidence that the broch had been burnt and deliberately demolished. The site was re-occupied possibly in the Pictish or Norse periods and artefacts from this period included iron knives and a blue glass bead.

1.0 Introduction

Four trenches were excavated at Castle Craig, Auchterarder, between the 6th and the 26th August 2012.

1.1 Site, Location & Geology

Castle Craig is located on the lower reaches of the Ochil Hills and occupies a prominence on the S side of the Earn valley, NGR: NN 97604 12714 (See Figure 1). The site is 140m above sea level. Castle Craig lies within Pairney Farm and is defined on the W side by Pairney Burn and by a quarry track to the E. The underlying geology is Lower Old Red Sandstone (Geological Survey of Great Britain Sheet 39, drift and solid, 1969). The drift deposits in the vicinity are boulder clays, although at the site bedrock is outcropping. The site is within the Craig Rossie SSSI (SNH Site Code 422) designated as such because of the presence of the Old Red Sandstone igneous rocks (specifically rhyodacite or acid lava).

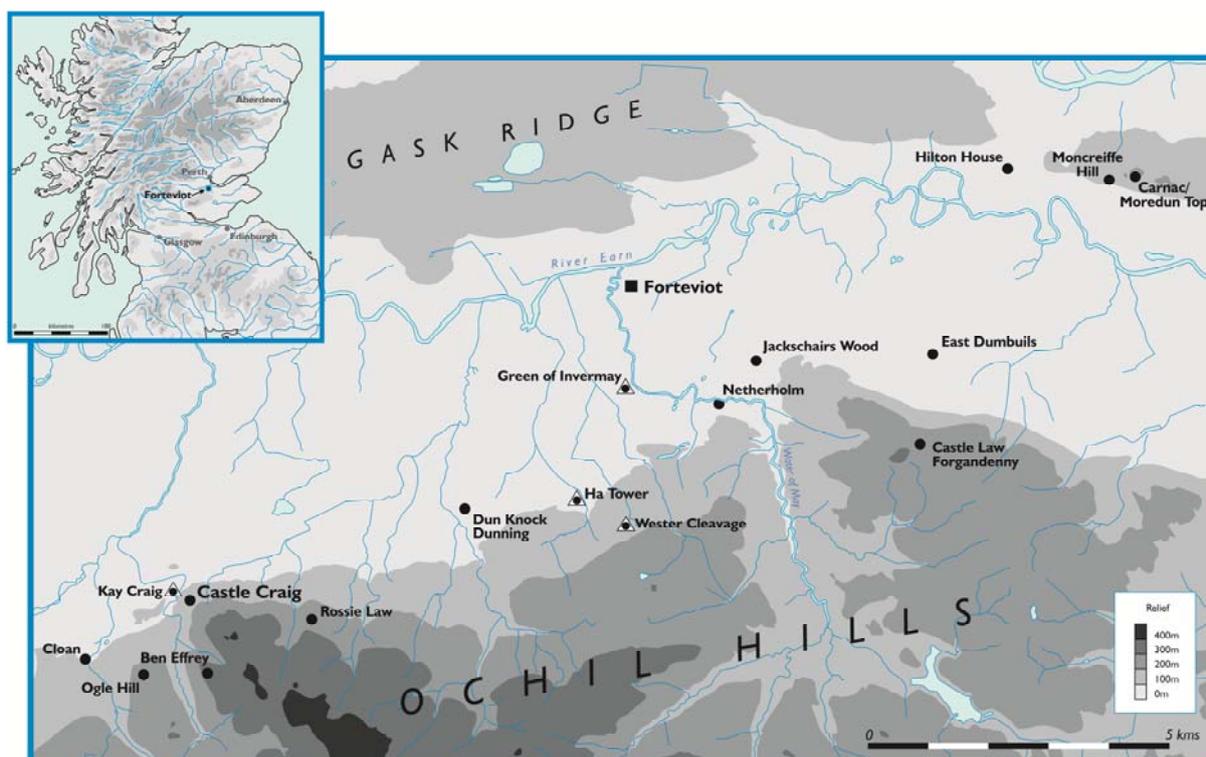


Figure 1 Site Location

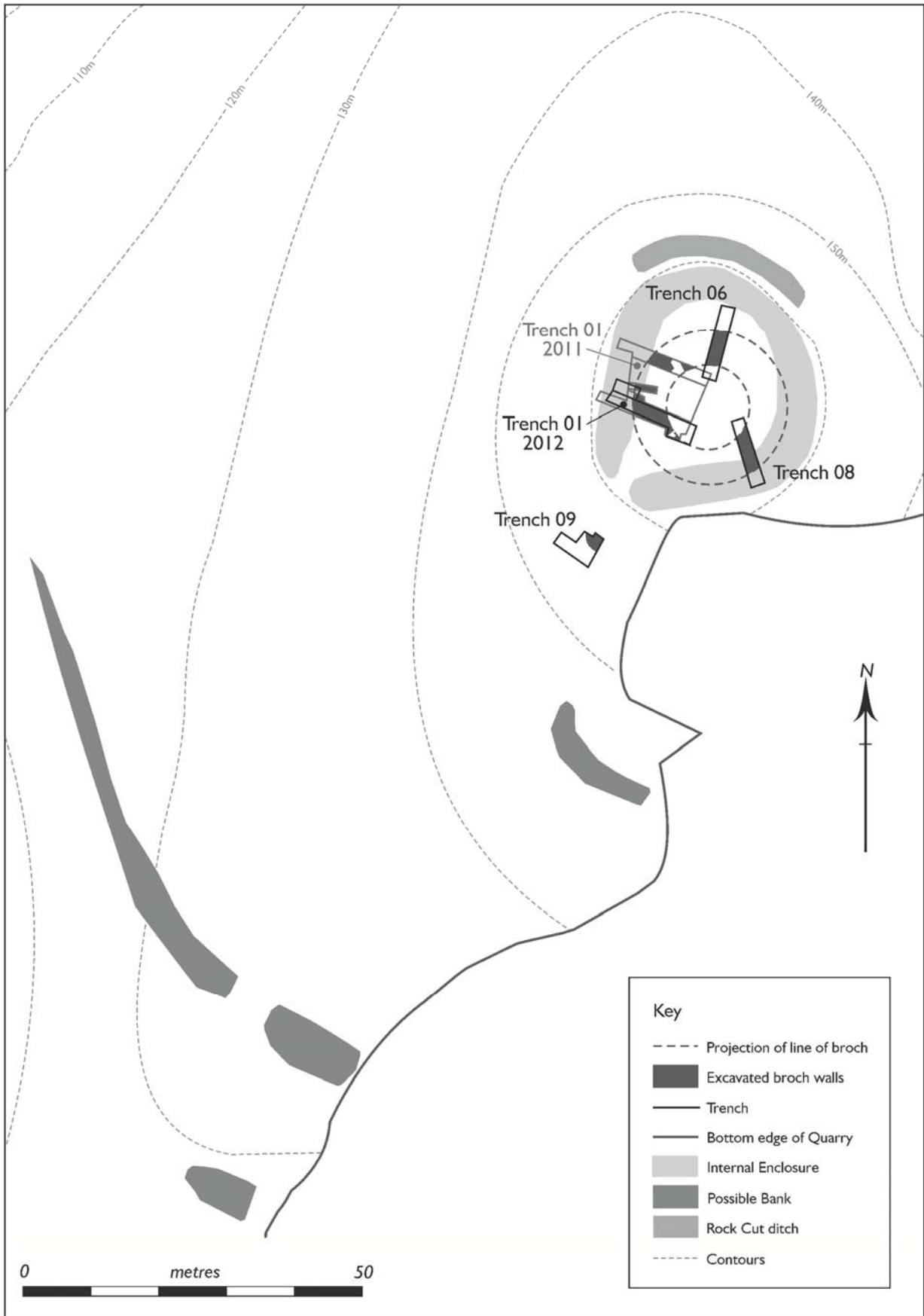


Figure 2 Plan of upper enclosure and outer banks

1.2 Aims & Objectives

The aims of the excavations in 2012 were to

- understand fully the character and depth of the archaeological remains,
- allow for the inspection of the fabric by a conservation architect and
- to estimate the amount of rubble that would need to be removed in order to fully reveal the broch.

The objectives were to,

- excavate three trenches across the broch walls,
- excavate one trench across a geophysical anomaly,
- provide training for students and experienced volunteers and
- co-ordinate with the 3D laser scanning and other surveys as part of the wider feasibility study.

2.0 Methodology

A four-week season of excavation was undertaken as part of a field school run by the University of Glasgow SERF project with students and local volunteers.

Trench 01 was first excavated in 2011. This trench was partly reopened in 2011 in order to reveal the base of the outer wall which had not been reached in 2011 and examine deposits beneath the internal slabbed floor. The trench initially measured 13m by 2m, but because of the great depth and size of the rubble, the trench was widened towards the N by 2m so that the base of the wall could be excavated safely.

Trench 06 measured 11.2m by 2m. It was located in the N in order to examine the location and condition of the broch wall and to investigate a hollow which was thought to be a kiln or intra-mural cell. The trench extended only 3.5m beyond the broch wall to minimise the damage to the outer bank and yet allow for an examination of the external deposits.

Trench 08 measured 10m by 2m and was located in the SW to examine the location and condition of the broch wall in the vicinity of the quarry edge.

Trench 09 was located outside the fort and broch on the S side, to the N of the rock-cut ditch (see Figure 3). Its position was designed to investigate an anomaly on the magnetometry survey, and to assess the depth and nature of the exterior deposits. The position of the trench lay in the middle of the approach route to the fort and broch entrances, visible on the detailed FlyingScotscam survey. The trench was initially laid out as a 2m x 6m E-W area with an extension of 2m x 2m to the N, later extended to 4m x 2m.

All the trenches were deturfed and excavated by hand. According to standard practice, in accordance with the Institute for Field Archaeologists Standard and Guidance for archaeological excavations (revised 2008), each context was fully recorded by photograph, drawing and written description. Artefact locations were recorded three-dimensionally using a total station and taped offsets. Soil samples were taken of each stratigraphically secure context in order to

retrieve dating evidence as well as palaeobotanical remains. At the end of the excavation the trenches were backfilled by hand and returned to the state they were prior to excavation.

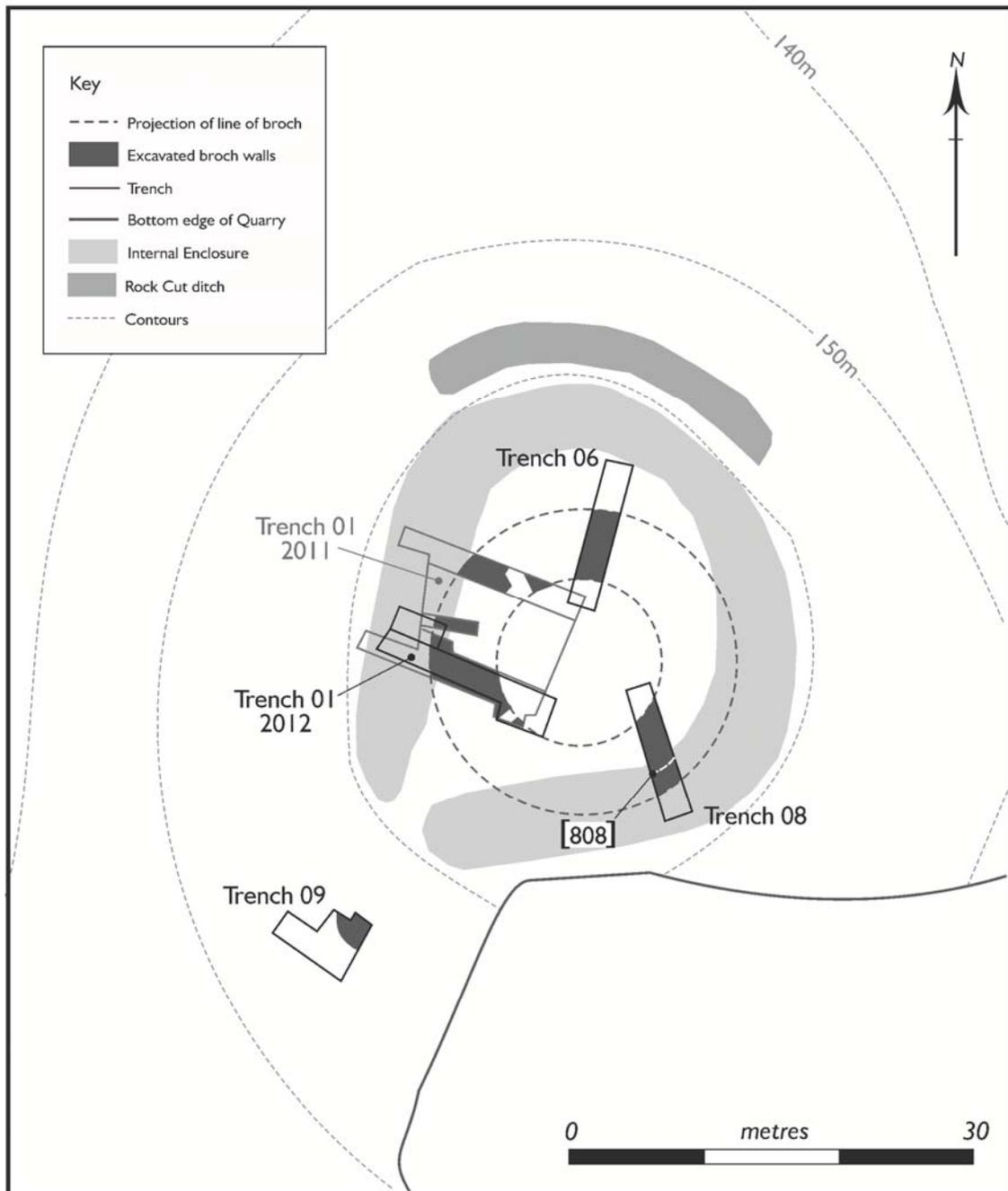


Figure 3 Plan of Trenches

3.0 Results

3.1 Trench 01 (Figure 4)

The base of the outer wall face of the broch (114/016) was revealed at the W end of Trench 01. The wall face measured 2.2m high above the foundation course and was battered back by 0.50m. The basal foundation course of the wall was stepped out by 0.10m. The wall face was

constructed of 18 well-built courses of predominantly blocky rhyodacite (which naturally breaks into laminated blocks) and a few sandstones. The wall was generally in good condition with some small pinning stones still in place, however there were a few small gaps in the stonework towards the base of the wall where stones were damaged, as if crushed by weight from above.

The core of the wall had been partially exposed in 2011, but was not investigated further in 2012.



Plate 1 Outer face of the broch from the W.

Castle Craig 2012
Plan of Trench 01



Figure 4 Plan of Trench 01

Castle Craig 2012

North facing section of Trench 01, showing outer wall of broch

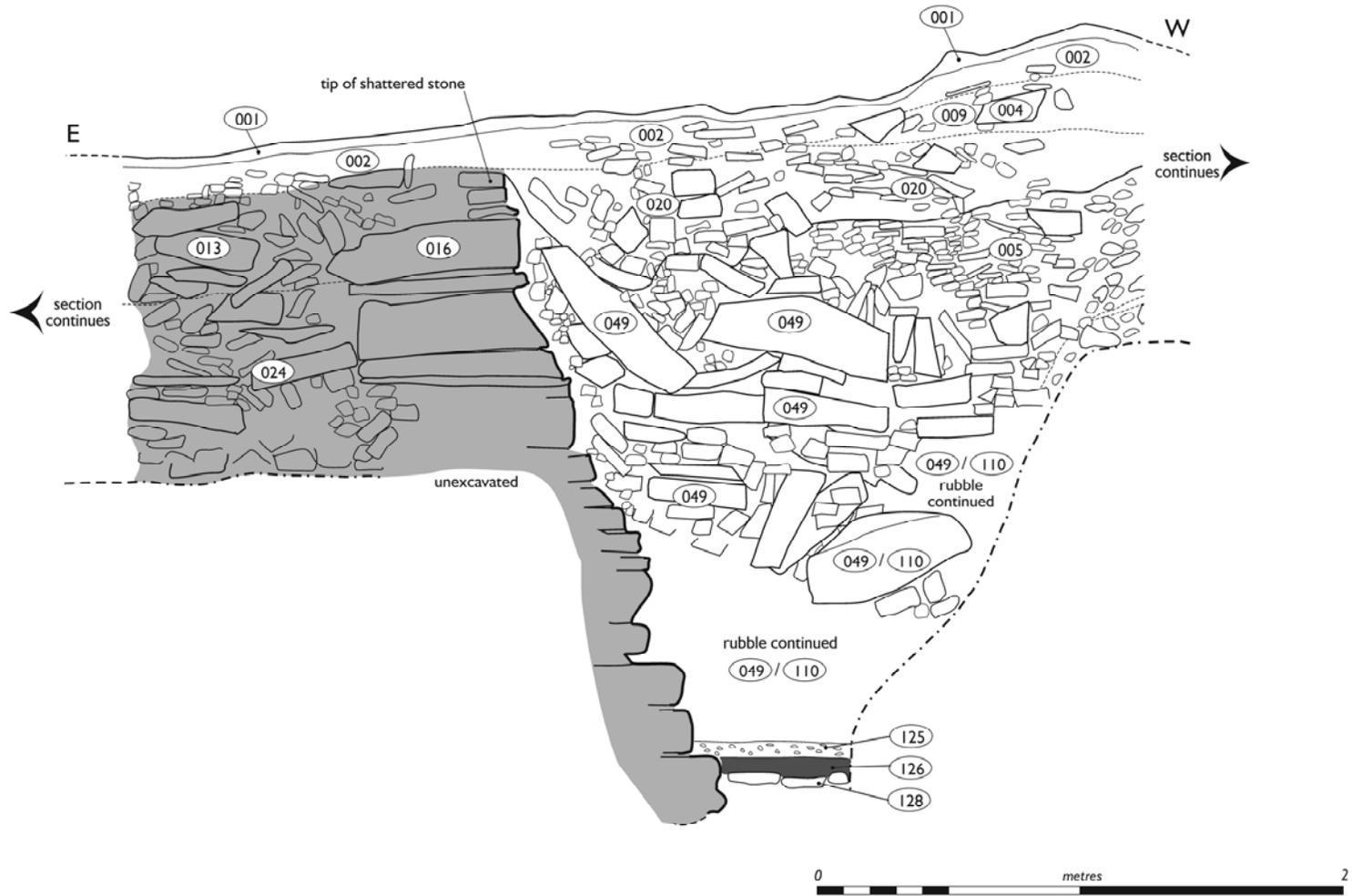


Figure 5 Trench 01, N facing section

Castle Craig 2012
Trench 01
South facing section

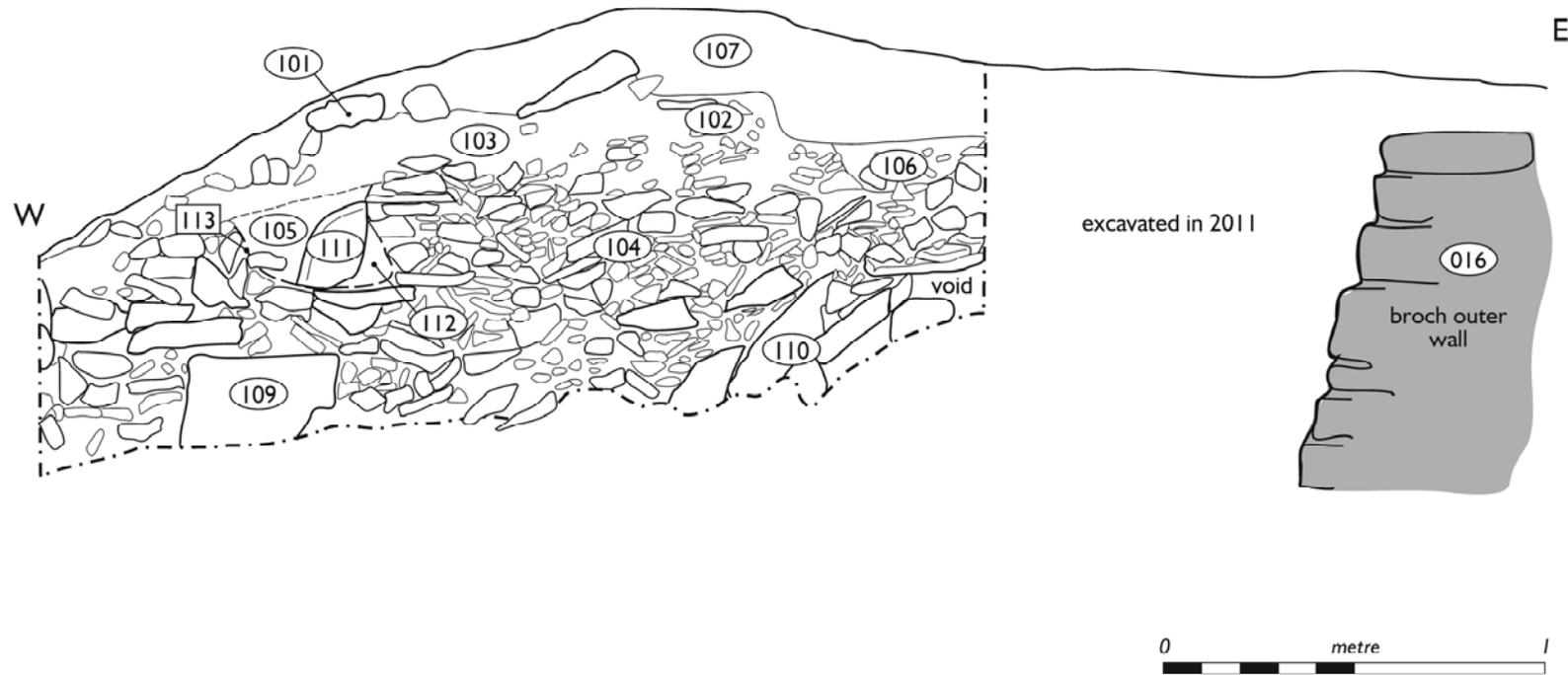


Figure 6 Trench 01, S facing section

Rough, angular-shaped flat slabs (128) abutted the foundation course of the broch wall and may have formed a rough surface of paving over bedrock. A layer of dark grey clay silt (126) 0.10m thick, sealed the slabs (128), and abutted the broch foundation course. Layer (126) contained charcoal, but no other finds. It was sealed by a thin layer, about 0.05m thick, of small angular orange gravel (125) which contained unburnt bone fragments (SF 6228). The gravel (125) or small stones was interpreted as constructional debris or perhaps the result of weathering.

Broch demolition

The gravel (125) was sealed by a substantial deposit of vacuous rubble (110/045) which abutted the broch wall to a depth of 1.8m. The rubble (110/045) consisted of large blocky slabs up to 0.50m long which had come to rest at an angle of between 30 and 45 degrees, sloping away from the broch wall. The rubble (110/045) extended for at least 3m from the broch wall. A particularly large square stone (109) was seen in the S facing section and was initially thought to be part of a revetment, but as there were no other stones in line with it and so it was interpreted as part of the rubble (110). The large vacuous rubble was evidence of the rapid demolition of the outer face of the broch. There was no evidence for stabilisation horizons or old ground surfaces within this deposit, which might have suggested a gradual collapse over a period of time.



Plate 2 Vacuous rubble (110/049) abutting the broch wall.

Sealing the vacuous rubble (110/049) was a layer of smaller angular chips (104/005) about 0.5m deep. The stones were on average 0.05m long, but included larger stones up to 0.3m long

and small fragments of bone (SF 6217). This deposit sealed the remains of the broch wall and formed a fairly flat upper surface. This deposit (104/005) has been interpreted as further demolition debris, perhaps the remnants of the broch wall core, which has been deliberately spread out across the site to provide a building platform. There were no large blocky stones within this deposit which would suggest that any surviving stones from the inner and outer wall faces were deliberately buried or were perhaps quarried out and removed for re-use. This horizon continued over the broch wall and interior as layers 002 & 003 (see James 2011).

Upper enclosure bank

The basal layer of the upper enclosure bank consisted of fist-sized stones and loose light brown silty soil (117) which sealed the deposit of small chips (104/005). The stones and soil (117) was up to 0.10m deep and extended for at least 2m from the broch wall (not shown in section). It had indistinct boundaries, but contained more soil than the layer of small stones (104/005) below and was lighter in colour than the layer above (103).

Within the bank there was evidence that there had been structural timbers in the form of a square post-setting (118) and two post-holes (106 & 113). The post-holes (106) & (113) were seen in section as the bank was excavated (see Figure 6). Post hole (113) was U-shaped in profile, 0.5m in diameter and 0.4m deep. It was filled with orange brown silt (112), a vertical packing stone (111) and dark brown silt with charcoal and burnt bone (105). Post-hole (106) was a circular patch of light orange brown silt with ash and charcoal which was 0.3m in diameter and 0.25m deep.

A square setting of small upright stones (118) was seen immediately over the outer wall of the broch set within layer (117). The post-setting (118) was 0.22m wide and could have supported a squared post measuring about 0.18m by 0.15m. It was filled with dark brown clay, small stones and charcoal (121).



Plate 3 Post-setting (118/121)

Patches of burning (see Figure 4)

There was also a series of shallow, roughly circular, charcoal-filled, features visible within the surface of the stony layer (117). One feature (116) was an oval patch of dark orange brown silt and burnt peat (116) measuring 0.20m by 0.25m and 0.12m deep which was cut into the layer (117). Feature (119) was a thin (c 0.04m) oval-shaped patch of dark brown silt with charcoal. Feature (120) was a similar patch of dark brown clay with stones, 0.68m in diameter and 0.04m deep. These features did not form a coherent pattern within the small area exposed.

Bank construction

The main body of the enclosure bank consisted of two layers which sealed layer (117). Layer 103 was dark brown sandy silt with numerous medium sized stones (103/115/020). This layer formed a low bank about 2.5m wide and up to 0.2m high. It contained slag (SF 6215) and bone fragments (SF 6216). The bank was topped with numerous flat stones (101, 102 & 004). There was no evidence that the post-holes identified within 104/117, continued through into layers 103 and 102. The bank was sealed by up to 0.25m of topsoil (107/001) which contained several sherds of medieval Redware (SF 6219 & SF 6220) and mammal bone (SF 6221).

The backfill from the 2011 excavation was re-excavated as context (100). This mixed deposit contained several pottery sherds (SFs 6202, 6204, 6206, 6211, 6212, 6218), a stone gaming piece (SF 6203), slag (SF, 6205, 6210), an iron nail head (SF 6213), a possible hammer stone (SF 6207), a shale fragment (SDF 6208), a flint flake (6209), a thin copper-alloy fragment (SF 6214) and bone (SF 6216).

Broch interior

At the E end of Trench 01 the interior slabbed floor (089) was re-exposed (see James 2011, Plate 3). Six of the slabs (089) were lifted in order to investigate the pre-broch deposits within a sondage measuring 1.10m by 1.20m. The basal layer, encountered at a depth of c.0.08m below the slabs, was bright orange clay (127) which was interpreted as natural or re-deposited natural. There were no finds or visible charcoal within this material. It was not possible in the time available to investigate this deposit further. In the NE corner of the sondage there was a shallow feature, filled with orange brown gravelly silt (133) with charcoal and some burnt bone. These deposits were sealed by dark brown clay with orange patches and charcoal (122) which contained burnt animal bone (SFs 6222, 6225), a copper alloy cup binding (SF 6224), a sherd of Roman glass (SF 6227) and a piece of glass working waste (SF 6226).

Loose dark brown clay with stones and charcoal (123) was seen between the slabs and sealed the clay (122). This dark brown clay (123) contained a sherd of Roman glass (SF 6223) which had presumably fallen between the slabs and was derived from the floor deposit (087).

There was a circular post-hole (129/130) immediately within the entrance of the broch, which was not sealed by the floor slabs. The post-hole (129/13) measured 0.36m in diameter and was 0.09m deep. There was a large water-rolled stone within the post-hole which was probably a packing stone for a timber post. As the post-hole was not sealed by the slabs and it could have been in contemporary use.



Plate 4 Post-hole by entrance to broch (129/130)

3.2 Trench 06 (Figure 7)

Broch wall

In Trench 06 the broch wall was 6.4m wide overall and consisted of an outer face (603), an inner face (606) and a wall core (619). The inner face (606) was up to 0.35m high and consisted of six courses of flat slabs.

The outer face (603) was 0.7m high and consisted of five courses of both flat slabs and large blocks (see Plate 7). The basal stone was stepped out by about 0.10m and sat directly on bedrock. The wall was battered back. The core of the wall (619) consisted of large angular stones which varied in size, but were all fairly flat and well laid. The stones (619) contained a single slag fragment (SF 6345).

Within the wall core, at a distance of 1.6m from the outer wall face (603) there was a possible vertical building line within the rubble, which may have been the face of an intermediate wall (see Figure 7). This line was not seen in plan within the remains of the wall core.

Sealing the wall core (619) and the wall faces (603 & 606) were angular stones (604) which varied in size and shape, including flat slabs and broken angular blocks. These stones were lying at a variety of angles. These stones (604) were interpreted as the debris from the demolished broch wall.

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Trench 06
West facing section

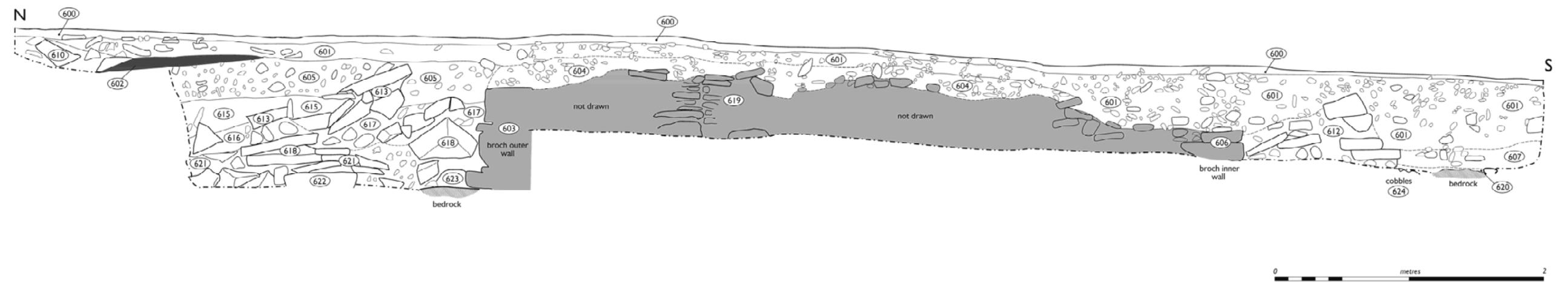


Figure 7 Trench 06, W facing section



Plate 5 Trench 06, Interior wall face (606), sloping bedrock, cobbles (624) and flat slabs (625)



Plate 6 Trench 06, Interior wall face & E facing section. (The backfilled 2011 trench can be seen on the left)



Plate 7 Trench 06, outer wall face (603) and collapsed broch face stones (613 & 618)

Broch Exterior

To the N of the broch wall flat slabs (622) were noted at a distance of 0.8m from the base of the wall. These slabs lay over the sloping bedrock. Although these slabs were exposed within a very small area, they were thought to form a rough paved surface. The basal deposit immediately outside the broch was a thin layer of orange brown clay with numerous very small angular chips of stone (623). This layer abutted the base of the broch wall (603) and sealed bedrock, but was not noted above the paving stones (622).

Above the stone chips (623) was a deep deposit of loose, partly voided stone slabs. The lower stones (618) lay fairly flat while the upper ones (613) were at a more acute angle. These stones were intermixed with patches of clay, small stones, charcoal (SF 6342) & burnt bone (621), small stones (617) and clay, silt and charcoal (615 & 616). The layer of clay and small stones (621) contained a possible Roman pottery sherd (SF 6343). Overall this deposit was up to 0.9m deep and was generally less vacuous than the outer tumble in Trench 01 (110).

These deposits were sealed by a layer of dark brown sand and angular stones (605) which was up to 0.35m deep and formed a fairly flat surface, between the stones (604) and the northern edge of the trench. Layer (605) contained a single iron knife blade (SF 6322). At the northern corner of the trench a thin (0.04m) layer of sandy clay with frequent charcoal (602) was seen. This dark layer (602) contained a single burnt flint flake (SF 6320).

Broch Interior

The interior wall face was abutted by a surface which consisted of small rounded cobbles (624) and two flat slabs (625) that filled gaps in the sloping bedrock (see Plates 7 & 8). In between the bedrock and the cobbles there was dark silty sand and small pebbles (620) which contained several mammal teeth (SF 6344) and a possibly unfinished spindle whorl (SF 6400).

A mound of flat slabs, angular stones and mid brown silty clay (612) sealed layer (620). These slabs were interpreted as the remains of the inner face of the broch wall and core material.

A deposit of orange brown sand and pebbles with charcoal (607) which was up to 0.15m deep abutted the stones (612). Layer (607) contained several bone fragments (SF 6341), a metal clasp (SF 6340) and a stone spindle whorl (SF 6339).

The Outer Bank

The northern end of the trench had clipped the inner edge of the outer enclosure bank and this could be seen in section as a deposit of small angular stones (608) which were up to 0.25m deep and contained a blue glass bead (SF 6338). When revealed in plan, a possible wall foundation, 0.30m wide and 0.10m high (609), aligned at right angles to the bank, was identified within this horizon of stones. There were similar sized stones on either side and these were numbered (610 & 611).

These deposits were sealed by a layer of small stones (601). Layer (601) was about 0.10 – 0.15m deep across most of the trench, but at the southern end was up to 0.5m deep. Layer (601) contained several mammal bones (SFs 6323, 6324, 6327, 6331, 6335), an object made from a

mammal femur head with bronze pins (SF 6332), several copper alloy objects including a finger ring (SF 6336), a fibula brooch (SF 6330), a tankard handle (SF 6329) a strip decoration (SF 6337) and a Cu alloy fragment (SF 6315). Layer (601) also contained a possible spur or stirrup (SF 6317), three iron nails (SFs 6312, 6326, 6328), two fired clay fragments (SF 6313), two lead fragments (SFs 6318 & 6319), one sherd of Samian pottery (SF 6333), one possible medieval pot sherd (SDF 6334), two modern sherds of pottery (SF 6314, 6325) and a quartz flake (SF 6316). These finds were predominantly found within the deeper part of (601) which lay to the S of the stones (612).

In retrospect it is probable that what was excavated as (601) in the southern part of the trench consisted of more than one layer, although this was not identifiable at the time because of the loose nature of the deposit and lack of clear surfaces. The artefact rich deposit at the base of layer (601) was very similar to layer (607) which also contained a small number of significant artefacts.

The uppermost layer in Trench 06 consisted of a thin layer of vegetation, roots and small stones (600). This layer contained a partial sheep jaw (SF 6303), an iron pin or nail (SF 6311), several fragments of fired clay (SFs 6306, 6307 & 6321), three sherds of pottery (SF 6302 - possibly Roman, SF 6309 - possibly medieval and SF 6304 - modern), two slag fragments (SF 6305) a possible stone pounder (SF 6301) and eight flint or agate fragments (SFs 6308, 6310).

3.3 Trench 08 (Figure 8)

The Broch wall

Within Trench 08 the broch wall measured 6.30m wide overall and consisted of an outer wall face (809), an inner wall face (820), an intermediate wall face (808) and wall core (822).

The inner wall face (820) was exposed for between 0.20m and 0.50m in height and consisted of up to seven courses of flat slabs and angular blocks (see Plate 8). The base of this inner wall face was not revealed.

The outer face (809) was up to 1.05m high and consisted of ten, well-constructed courses of flat slabs and large boulders sitting on natural subsoil (824) (see Plate 9). A single large stone (814) protruded from the base of the wall by about 0.15m. The wall face (809) was battered in a similar way to the outer face in Trench 01.

Between these two wall faces, at a distance of 1.95m from the outer face (809), there was a very rough wall face constructed of medium sizes flat slabs (808), (see Figure 8 and Plate 10). The wall core, between (809) and (808) consisted of small angular stones which were not excavated. The rough character of the face (808) was thought to make it unlikely that it represented an intramural cell or corridor.

Very little of the wall core was examined in Trench 08. What might have been the remains of wall core (807) appeared as several courses of flat and angular stones which abutted the wall face (808). The wall core between (807) and the inner face (820) consisted of angular stones (822) most of which was left unexcavated.

Castle Craig 2012

Trench 08
South facing section

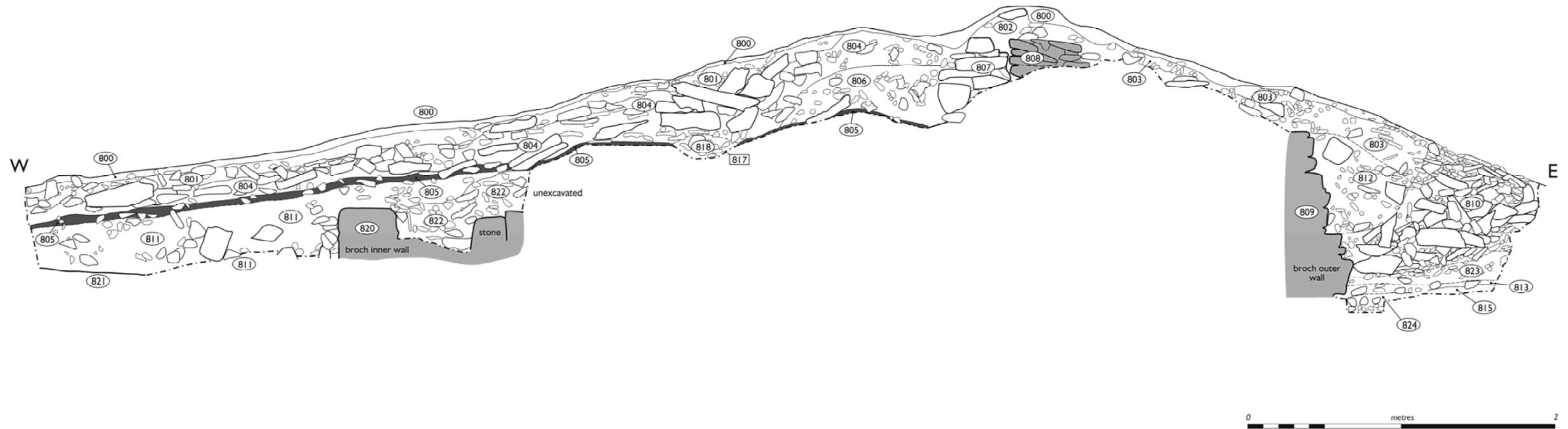


Figure 8 Trench 08, W facing section



Plate 8 Trench 08, inner wall face (820)



Plate 9 Outer wall face (809)



Plate 10 Trench 08 Outer wall face (809), intermediate wall face (808) and stones (807)

Broch interior

Excavation within the broch interior was restricted to a depth of 0.3m below the top of the broch wall and so the floor of the broch was not reached in this trench. The basal layer exposed was reddish brown sand and angular stones (821) seen at a depth of about 0.5m from the ground surface. Layer (821) contained charcoal (SF 6421), an iron object (SF 6423), a quartz fragment (SF 6417) and mammal bones (SFs 6419, 6420, 6422, 6424) some of which was human (pers. comm. Dr Stuart McDonald).

The stones (821) and the inner face of the broch (820) were sealed by a deep layer of loose dark brown black angular stones and sandy silt (811) which was up to 0.4m deep. The larger angular stones (up to 0.30m long) were concentrated towards the bottom of this deposit. Layer (811) contained a possible iron spearhead (SF 6407), a fragment of knife blade (SF 6406) and several burnt and unburnt mammal bones (SFs 6411, 6413, 6414 & 6416).

Layer (811) was sealed by a thin (0.04m) charcoal-rich layer of dark grey black silty sand (805) that extended across much of the trench as far as the stones (807). The surface of the dark layer (805) sloped up gently towards the stones (807), however the relationship of the dark layer (805) with the stones (807) was not ascertained. Layer (805) contained two nails (SFs 6404 & 6409), two slag fragments (SF 6405) and charcoal (SF 6412 & 6418).

The Outer Bank

A bank of dark reddish brown silt and angular rubble (806), which was up to 0.40m deep, sealed the charcoal-rich layer (805) and abutted the stones (807). The bank extended for 1.0m to the W of the stones (807), (see Figure 8). The stones (807) and rough wall face (808) were sealed by mid-sized flat stones (802) the uppermost of which tipped down to the W (see Plate 11).



Plate 11 Sloping rampart stones (802) with rough wall face (808)

An extensive layer of large stones and sandy silt (803) sealed the stones (802), the wall core and the rubble (812) & (810).

Linear feature [817] and post-hole (819)

A linear feature [817] was cut into the surface of the layer (805) and was parallel with the bank (806). The linear feature [817] had a U-shaped profile, measured 0.58m wide and was 0.20m deep. It was filled with dark grey brown clay silt, angular rubble (818) and a carbonised stake (816).

Five upright angular stones (819) were set in an oval shape at the northern end of the trench. This feature measured 0.30m by 0.40m, and had cut into layer (805). The fill was dark grey brown clay silt (819) which contained mammal bone. This feature was interpreted as a possible post-hole with upright packing stones.

Broch Exterior

Outside the broch, the natural subsoil (824) had been cut into by a shallow hollow, 0.04m deep. This hollow was filled with dark brown black sandy silt and charcoal (815). A thin (0.03m)

layer of dark brown black sandy silt and small stones (813) sealed layer (815) and abutted the base of the broch. Layer (813) may have formed a surface contemporary with the use of the broch. The surface (813) was sealed by a deposit of reddish brown stones and sandy silt (823).

Demolition debris

An extensive layer of angular stones and flat slabs (804) sealed the charcoal-rich layer (805), the post-hole (819), the linear feature (817), bank (806) and stones (807). The stones (804) were between 0.30m and 0.50m deep. This layer was sealed by a layer of loose stones and a dark brown black sandy silt (801) which contained pinning stones of which two were kept (SF 6402) and a possible stone tool (SF 6403).

At the far eastern end of the trench the sandy silt (823) sloped up slightly towards the E. It was sealed by voided angular stones (810) which were larger at the base of the trench than they were at the surface and sloped at various angles. The voided stones (810) contained a modern button (SF 6410) and a beetle casing (SF 6408). The stones (810) were sealed by silty sand with small stones (812). The boundary of (810) and (812) appeared to be steeply sloping away from the broch wall suggesting that (812) may have been the fill of a fairly modern feature.

All the above deposits (apart from the vacuous stones (810)) were sealed by vegetation and roots (800) which contained a single sherd of modern glass (SF 6401).



Plate 12 Outer face of broch (809) and collapse to the E

The deposits encountered were unexpectedly thick, with up to 1.2 m of very loose voided rubble at the eastern end of the trench, apparently increasing to the W. This made it difficult to excavate to the full depth and led to the abandonment of the western part of the trench before it was bottomed. The extension to the NW was opened to allow stepping of the trench sides for safety reasons.

Almost immediately on removal of turf (900) and the initial rubble-rich topsoil (901), large quarried blocks of the local lava appeared. These clearly formed part of a structure - a wall (902). Only the S face of the wall was exposed, but it must have been at least 2.5m thick. This wall and the rubble layers burying it was the main feature of the trench. The wall (902) had been deliberately slighted, and the area levelled under layers of dumped rubble and soil. Beneath the rubble to the S of the wall there were deposits contemporary with, and earlier than, the wall.

Occupation layers

At the base of the trench there was bedrock and decomposed bedrock (911) at a depth of about 1.05m. There were hollows and fissures which were filled with sticky black clays (909) and (910) up to 0.15m thick. These clays contained fire-cracked pebbles, charcoal, mammal bone (some burnt), (SF 6534) and fragments of furnace lining (SFs 6533, 6535 & 6537). Towards the bottom of the deeper deposits the clay was lighter brown in colour and less artefact-rich. This clay deposit was interpreted as pre-wall occupation deposits with a possible trampled surface.

A small posthole [913], fill (912) was cut into the dark clay (910) and lined with upright slabs on three sides (see Plate 16). This post-hole lay about 1.0m S of the wall and would have supported a post about 0.15m in diameter. Another larger vertical slab was exposed to the E, and may have been another post-hole, but this lay outside the excavated area.

The wall (902)

The wall (902) was of drystone build, well-faced, with a rubble core (see Figure 9 and Plate 13). The wall was at least 2.5m thick, and stood to a maximum of height of 0.75m at the face, though the core stood to at least 1.0m high. Towards the E it was aligned E-W, but it turned NW-SE at the W end. It was not clear within the scope of the trench whether the wall was ending in a rounded terminal, or changing direction. The wall had no batter, but stood on a foundation course which projected out from the wall face by 0.1m - 0.2m.

The wall facing stones were large, up to one 1m in length. Most of these were of locally quarried rhyodacite lava, but there was one sandstone boulder and another water-worn boulder. The construction was of excellent quality, with rough coursing and with spaces filled with pinning stones. The flat joint planes of the lava had been utilised to produce an appearance of dressed blocks, but no dressing had taken place. The character of the build was distinctive, differing from the broch outer wall, but more similar to the broch inner wall. The practice of filling triangular spaces with graduated small pinning slabs was distinctive though, and suggests a possibly different date for the wall compared to the broch. The core of the wall contained small and large blocks of lava, some up to 1m in length, as well as large water-worn boulders from the local stream, similar to those used for the outer rampart (James 2011, 15).

Castle Craig 2012

Trench 09

West facing section

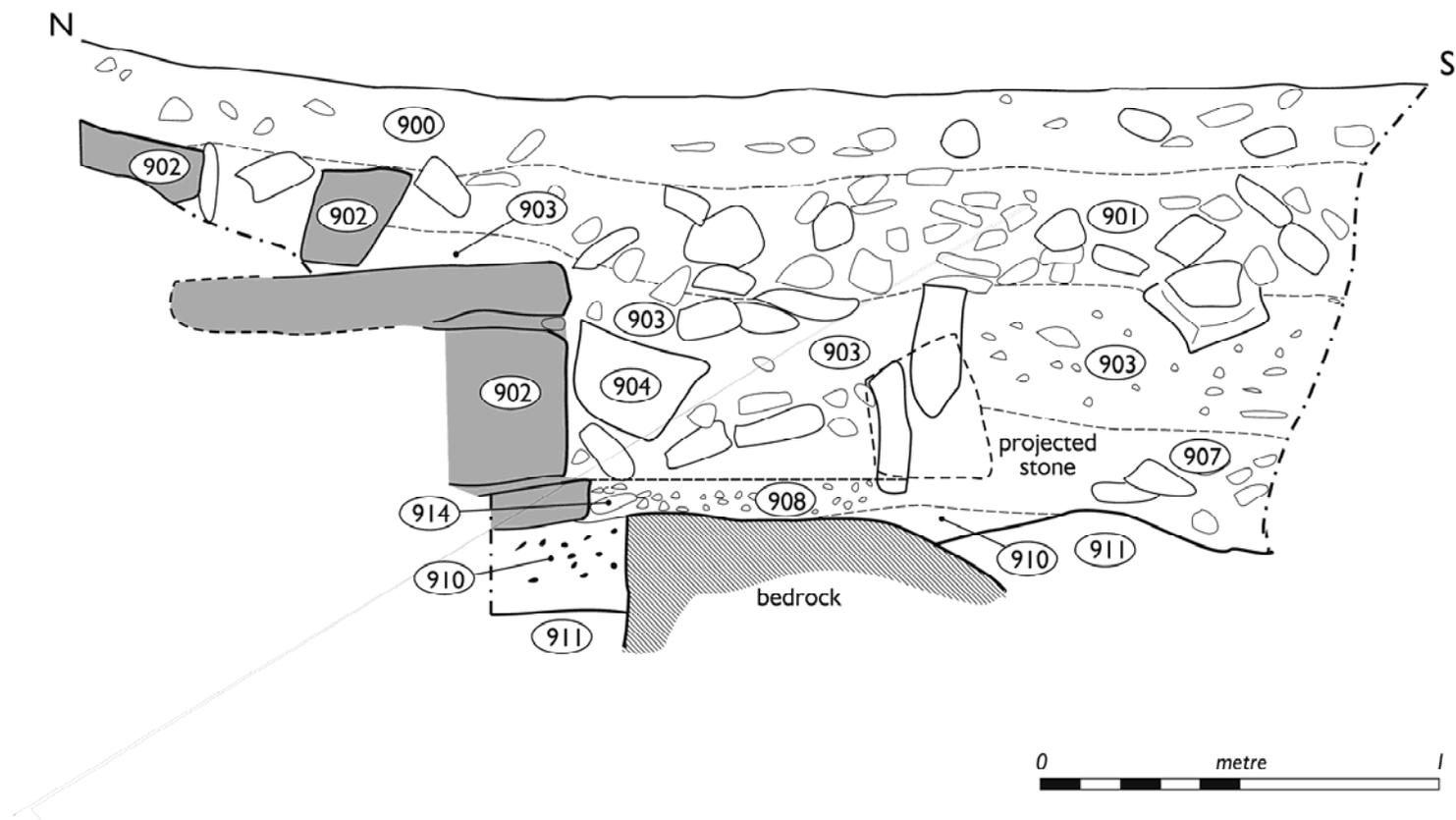


Figure 9 Trench 09, W facing section

Paving (914), chips (908) & further paving (907)

A layer of irregular paving (914) sealed the clay (910) and abutted the foundation course of the wall (902). The paving was composed of very small pieces of stone up to 0.1m long and a few centimetres thick.

The paving (914) was sealed by a layer of fresh stone chips (908) up to 0.10m thick. The stone chips (908) extended for about 1m S of the wall (902) and abutted the foundation course. This layer (908) was interpreted as the construction layer for the wall (902). Although the stones were not dressed, flakes fall off the blocks whenever they are moved, as was noted during shifting of the rubble. Layer (908) contained a smoothing stone (SF 6532).

So the S of the stone chips (908) there was further paving (907). The relationship between (907) and (908) was not clear, but (907) may have partially overlain (908). This surface was up to 0.80m across and 0.10m thick. The paving sloped down to the W at the western end of the trench, but was not excavated in the western part due to safety considerations. Some of the large facing stones within layers above (905) had smashed into this paving causing buckling, making it initially difficult to distinguish the layers. Some of the paving may also have been accidentally removed with (905). In places there were several layers of paving, giving the impression that the underlying wetness in this area had necessitated continued episodes of repaving. The paving (907) was thought to belong to a phase of use contemporary with the use of wall (902).

Demolition debris (903), (904), (905) & (906)

The paving (907) was sealed by voided rubble (905), which was numbered (906) in the extension. This stone layer (905/906) was up to 0.5m thick and contained very little soil matrix. The stones (905) contained a copper alloy fragment (SF 6529) and animal bone. Initially there appeared to be further walls within this layer (904), but on excavation these turned out to be tumbled facing stones from (902). The stones (904) contained bone, possibly human (SF 6524). This layer was interpreted as the debris from the slighting of wall (902). A complete iron chisel (SF 6531) was found placed vertically against the side of the wall within (906) which also contained a glass droplet (SF 6530). It is possible that the lower parts of the stones (905), may have been occupation deposits, but it was impossible to separate them during excavation due to the disturbance by the pushed-over facing stones. At the southern part of the trench, the stones (905) became wetter towards the bottom.

These layers were sealed by a layer of stone chips, with some large blocks with a charcoal-rich brown-black loam matrix (903) up to 0.3m thick. This deposit produced a large number of artefacts, including ten pieces of copper alloy objects and waste (SFs 6509, 6510, 6511, 6513, 6514, 6518, 6519, 6520, 6521, 6522), a Roman washer (SF 6512), part of a melon bead (SF 6507), vessel glass (SF 6508), lead waste (SF 6516), carbonised wooden objects (SFs 6515, 6517), a stone ball (6523), mammal bones (SFs 6525, 6526, 6527 & 6528) and many fire-cracked pebbles. All these finds were small, in contrast to the excavations of the basal layers within the broch where large items were found. Layer (903) gives the impression of being sifted of significant finds for recycling during the removal of the larger blocks. This layer spread onto areas where facing stones of wall (902) had been removed, but was mainly below the level of the surviving top of the wall. It did not extend over the full extent of the trench, petering out in the N-W corner of the original western part of the trench.

The uppermost rubble deposit (901) consisted of loose angular blocks and slabs of the local rhyodacite lava mixed in mid-brown loam. The deposits sealed the wall (902), and dipped to the S and W up to 0.3m in depth. Layer (901) contained two copper alloy fragments (SF 6503 & 6504), two iron nails (SF 6505 & 6506) a lead fragment (SF 6502) and a polishing stone (SF 6501).



Plate 13 Wall (902)



Plate 14 Deposits abutting wall (902)



Plate 15 Paving (907) and small chips (908)



Plate 16 Post-hole [913], fill (914)

Finds

The copper alloy items, almost all from layer (903), consist mainly of fragments of sheeting, from unidentified objects. Some of the fragments (SF 6510, 6522) are folded as if for melting down, while others are casting waste (SF 6513). One item is part of a strip with hemispherical bosses (SF 6514), identifiable as part of a similar folded strip found with the brooch in Trench 06 (SF 6337). The impression is of a collection of scrap being used to cast new objects. There is also a very corroded copper alloy washer (SF 6512). One fragment (SF 6518) may be of silver. There were three glass items. SF 6508 was a sherd of a square bottle of common 1st/2nd century Roman type. SF 6507 was a fragment of a typical frit melon bead similar to the complete one found in 2011, while SF 6530 was a tear-shaped glass droplet from glass-working. The colour of the droplet shows it was made from glass of the same colour as SF 6508, indicating recycling of Roman sherds. There were two irregular pieces of lead SF 6502, 6516, again probably associated with casting. Apart from a couple of possible nails from the topsoil, there was only one iron object. SF 6531 was a substantial artefact, with a square-sectioned tapering point and a thick tang (see Plate 19). Although at first considered to be a projectile point, it is now confirmed to be a tool such as a chisel (Goodall 2011, fig 3.8). Unusual preservation conditions preserved a carbonised handle with grooving (SF 6517) and another object (SF 6515). All these items came from the levelling layers, (901), (903), (905), (906). The lower occupation layers produced no artefacts other than large pieces of furnace lining (SF 6535) from (910). These could be from domestic ovens rather than metalworking furnaces.



Plate 17 Copper alloy washer SF 6512



Plate 18 Glass droplet (SF 6530)



Plate 19 Iron chisel SF 6531



Plate 20 Roman glass fragment SF 6508

4.0 Discussion

4.1 Trench 01, 06 & 08

The surviving height of the broch wall proved to be variable across the site. On the W side, in Trench 01, the full height of the exterior wall face was 2.2m, while it was 1.05m high on the SE side, in Trench 08, and only 0.7m high in the N, Trench 06. The inner wall face was 1.1m high in the W, only 0.35m in the N and at least 0.5m in the SE. This variation in height is partly because of the uneven nature of the bedrock. The bedding planes of the bedrock have a distinct slope which would not have provided a flat building surface. The base of any wall built over this would therefore be at a different height. The surviving upper level of the wall also varies, being noticeably lower at the entrance than elsewhere.

There was some evidence for a plinth at the base of the broch wall, a feature which has been noted at other excavated brochs and interpreted as an attempt to spread the load on a possibly mixed subsoil (Romankiewicz 2011, 93).

The masonry pattern at Castle Craig consist of elongated slabs with occasional angular blocks, stretching over two courses. The masonry is built up in neat courses achieved by carefully placed pinning stones. No obvious lifts or continuous joints indicative of vertical sections are recognisable suggesting that the wall represents a continuous built. The quality of build was generally good, although the wall faces had suffered from some cracking and stone decay, probably as a result of pressure from above or from burning. The wall core generally consisted of well placed stones of variable size and shape. A hollow seen in the surface on the northern side, investigated by Trench 06, was initially thought to be a post-broch kiln or perhaps an intra-mural cell, but remained unexplained at the depth reached during the excavation in 2012. On the SE side there was clear evidence for a wall face (808) within the broch core, at a distance of 1.95m from the outer face. This wall face was considered too rough to be for an intra-mural cell and may be an intermediate wall intended to strengthen the massively thick broch wall. Another possible intermediate wall face was seen in the N, 1.6m from the outer wall face. As yet no intermediate wall has been identified on the W side.

The deposits outside the broch wall were examined within very restricted areas. To the N, within Trench 06, there was a possible surface of flat slabs at a short distance from the broch wall and, so far, no evidence for any structures either predating the broch or contemporary with it. In the SE, Trench 08, there was a possible pre-broch feature in the form of a shallow hollow and a stony surface. In the W, Trench 01, there was a possible surface of flat slabs at the base of the wall. Therefore no evidence has been uncovered for significant occupation deposits outside the broch wall, sealed beneath the demolition debris.

The interior deposits were also variable. Within the re-opened Trench 01, there was a paved floor which was thought in 2011, to underlie the broch wall and therefore be the primary floor. This floor sealed a deposit which contained Roman glass, which would suggest that the broch was constructed no earlier than in the 1st century AD. A shallow feature beneath the paving, cut into natural, may belong to pre-broch activity, the date of which is currently unknown. In the N, in Trench 06, the broch floor is represented by a surface of cobbles and slabs infilling the sloping bedrock which was sealed by a possible occupation layer (620) containing an unfinished spindle whorl. The broch floor was not reached in the SE, Trench 08, and so it is not known what the character of the floor deposits are like on this side.

The numerous finds from 2012 contained further Roman trade goods and domestic material which supports the theory that the occupants of the broch were involved in a mixed farming economy and had connections with the Roman occupying forces during the 1st and 2nd centuries AD, perhaps as trading allies. The single Samian sherd has been identified as being from a Drag 37 bowl which was manufactured in South Gaul in the 1st century AD (pers. Comm. Louisa Campbell).

The evidence of the burnt horizons seen in Trenches 1 and 6 supports the suggestion that the broch suffered a dramatic end involving the burning of the interior timber structure and furnishings and then the deliberate leveling of the broch walls. The existence of the largest stones at the base of the vacuous rubble and the smaller ones towards the top would argue

against the removal of face stones for re-use at the time of demolition. Patches of clay found within the rubble could have been derived from the core of the wall, floors or perhaps was used in places to seal the drystone face of the broch (as in Trench 06). The more silty patches within the rubble may be more modern trickle down from the bank above (as in Trench 08). Human remains were discovered in 2012 and these would seem to have been buried at the time of destruction without a cist or formal grave, and are not thought to be later insertions.

The upper enclosure bank of the fort

The site was leveled prior to the construction of the upper enclosure bank. It is not known how much time passed between the broch demolition event and the construction of the bank, although in the SE, the outer face of the broch wall could still have been visible on the surface as the bank was constructed directly over it. In the N and the W, the bank extends beyond the broch wall. The bank sealed a deposit of small stone chips which is thought to be the remains of the broch debris. The brittle nature of the stone means that any movement of the stones produces small chips of this nature. There was evidence for a timber element to the bank in the form of postholes, which were generally seen only in section, partly because of the excavation technique using wide slots and partly because of their ephemeral nature. The bank perhaps represents only a fraction of its original height, the rest of the bank material possibly eroding down slope.

Later occupation layers

Occupation layers relating to a later phase of activity were excavated in 2012. These consisted of a sloping surface of dark soil in Trench 08 and a charcoal-rich layer in Trench 06. The iron artefacts a blue glass bead from these layers are consistent with an early-medieval date which was suggested in 2011.

4.2 Trench 09

Ewan Campbell

Although the sequence of deposits in Trench 09 is fairly straightforward, the date and function of the wall and its leveling are more difficult to establish. The position of the wall, cutting across the neck of the S approach to the entrance, suggests a defensive function. It is set back some distance from the rock-cut ditch, so is not necessarily of the same date as it. The curve at the western end suggests it funnels approaching people into the actual entrance area, but this could belong to either the fort or broch phase. The quarried blocks of the wall look similar to those in the broch interior, and there is nothing similar in the later fort, so it is possible that it is an outwork for the broch. If it is, this would be very unusual for a Lowland broch. Another possibility is that it belongs to a pre-broch phase. The presence of water-rounded boulders in the core could show re-use of an older Iron Age rampart. The destruction of the wall looks very similar to the destruction of the broch - a deliberate slighting followed by leveling. The nature of the dump deposit (903) looks like the remains of burnt broch interior deposits after larger stones have been removed. Whether this took place immediately after the burning, or at a later date (perhaps during construction of the fort), is debatable, but there is no sign of topsoil between (905) and (903), suggesting there was not a big gap in time. Radiocarbon dates from

(910/911) should give a *tpq* for the building of the wall. The simplest explanation of the phasing is probably that the wall was built in the broch phase, resting on earlier Iron Age deposits, destroyed and leveled at the same time as the broch. However, there is scope for alternative sequences, but the lack of secure contexts in the voided rubble will make it difficult to date the later phases of activity. It could be that the broch was partially cleared out during the building of the fort, but the lack of artefacts from that period will make it difficult to prove this.

The sequence for building the wall that can be established is straightforward. Initially, the occupation deposits (910) were leveled, leaving only patches in hollows in the bedrock. A rough foundation course was laid to provide an even base for the wall, and the paving (914) laid on (910) to provide a secure working surface. Erection of the wall created a layer of stone chips (908) around the base of the wall. Next, paving (907) was laid further away from the wall to cover a wet area, but continuing seepage laid to several phases of renewal. Some of the bones in the lowest part of (905)/906) may represent build up of rubbish on this surface during the wall's period of use. Next the wall was demolished by pushing over the facing stones and then core (904, 905, 906), dumping rubble and burnt debris from the broch (903). Further layers of rubble (901) were used to level the area, removing all trace of the wall.

The deposits in Trench 09 are an important reminder that excavations of the broch/fort on top of the hill do not tell the whole story of the site. The unexpected outer defensive wall or hornwork is probably unique if it is associated with the broch, and if earlier tells of the earlier Iron Age structures on the site. Other external features may also be buried under the metres of rubble surrounding the broch. The dumped leveling deposits, if they are derived from the burnt-down broch interior as the finds seem to indicate, provide additional evidence of activities within the broch and caution against seeing the interior as a sealed deposit. The pre-wall deposits give valuable dating material as well as a glimpse of daily life on the earlier Iron Age hill-top.

5.0 Acknowledgements

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Appendices : Concordances

Appendix 1: Contexts

Context	Trench	Compaction	Colour	Composition	Interpretation	Relationships
100	1	Loose	light grey brown	stony sand/silt	backfill of 2011 trench	within 2011 trench
101	1	Compact	light grey/brown with orange patches	stony sand/silt	Vegetation & roots	over all
102	1	Compact	light grey brown	flat slabs	stones within bank = 004	under 101, over 103
103	1	Loose	dark brown	sandy silt	palisade bank of redeposited midden = 020	under 102, over 104
104	1	Loose	light grey brown	small flattish stones	small debris from broch destruction.= 005	under 103, over 109 & 110.
105	1	Medium compact	mid dark brown	silt, with charcoal & burnt bone	fill of post-hole 113	under 103, fill of 113
106	1	Loose	light orange brown	silt with ash & charcoal	fill of ?post-hole	under 103, within 104
107	1	Compact	light grey brown	stony sand/silt	topsoil = 101	over 101 & 102
108	1	Loose	light grey brown	stony sand/silt	backfill of 2011 trench	within 2011 trench
109	1		orange brown	large boulder	collapse of broch outer wall face	under 104, over 125, =? 110
110	1	Loose	light orange brown	boulders and smaller stones	collapse of broch outer wall face	under 104, over 125, =? 109
111	1		light orange brown	flat slab, on edge	packing stone in a post-hole	under 105, over 113
112	1	Loose	orange brown	silt, with charcoal & slag	fill of post-hole 113	under 111, over 113
113	1				post-hole	cut into 104, filled by 105, 106, 111
114	1			slabs of rhyodesite	outer face of broch wall	Abutted by 128 & 126
115	1	Loose	dark brown	silt & burnt peat with stones	layer of outer bank	under 107, over 104, over 117
116	1	Loose	dark orange brown	silt & burnt peat	burnt peat lens within bank	cut by 118, under 107, over 117
117	1	Loose	light brown grey	silty sand with fist sized stones	basal layer of bank	under 115 & 116, over 104
118	1			square setting of stones	post-hole, within bank	cut into 117, over 114, filled by 121
119	1	Loose	dark brown	silt with charcoal	burnt patch within bank	under 107, over 117, ?= 116

120	1	Compact	dark brown	clay & stones	burnt patch within bank	under 107, over 117, ?= 116
121	1	Compact	dark brown	clay, stones & charcoal	post-hole fill	fill of 118
122	1	Compact	dark brown	clay with orange patches, small stones & charcoal	levelling up below broch slabbed floor	under 132/087
123	1	Compact	dark brown	clay, stones & charcoal	remnants of occupation material fallen between slabs, post-dates the slabs, possibly = 086	between slabs 087, under 086
124	1	Compact	grey brown	clay	infrequent clay patches within collapsed broch walling 110	within 110
125	1			small gravel, with unburnt bone	weathered chippings from stones in 110	under 110/049, over 126
126	1	Compact	grey brown	clay silt with charcoal	old ground surface	over 128, under 125
127	1	Compact	orange brown	clay	redeposited natural, beneath broch floor	under 122
128	1			thin paving stones	surface of slabs, fill of a foundation trench or construction debris	under 126
129	1			circular post-hole cut	internal post-hole by broch entrance	cut into 127, filled with 130
130	1	Loose	dark black brown	gravel, clay, charcoal, burnt bone, & large packing stone	post-hole fill	fill of 129
131	1			drystone walling	inner face of broch wall	= 025
132	1			slabs within broch	Slabbed floor of broch	under 045, = 087, over 122
133	1		grey orange brown	gravelly silt, burnt bone & charcoal	pre-broch occupation	under 122
600	6	Loose	light grey brown	stony sand/silt	Turf & roots	over all
601	6	Compact	mid grey brown	angular stones and silty sand	surface of demolition rubble	under 600, over 604, =002
602	6	Compact	dark red brown	sandy clay with frequent charcoal	lens of burning	sealed by 601, over 605
603	6			drystone walling, c 6 courses	outer broch wall face	under 617, over bedrock

604	6	Compact		small angular stones and silty sand	small debris from robbed/demolished wall	under 601, over 619
605	6	Compact	dark brown	sand and stones and some charcoal	midden and debris =?015	under 602 & 601, over 614
606	6			drystone walling, four thin courses	inner face of broch wall	under 601 & 604
607	6	Loose	orange brown	sand and pebbles, charcoal flecks	collapsed burnt debris from broch interior	under 601, over 612 & 620
608	6	Compact		angular flat stones	bank construction	= 609, 610 & 611, over 605
609	6	Compact		small angular stones	bank construction? possible wall foundation	= 608, over 605
610	6	Compact		small angular stones	bank construction	= 608, over 605
611	6	Compact		small angular stones	bank construction	= 608, over 605
612	6	Loose	mid brown	silty clay with numerous angular flat stones	collapsed stones from inner broch wall	under 601, over 624
613	6			large angular slabs	collapse wall from external wall face of broch	under 605, over 603, 622 & 617
614	6	Compact	orange brown	clay	patch of clay within debris 613, floor debris?	under 605, over 613
615	6	Loose	dark brown/black	clay silt with frequent charcoal	burnt debris within stones 613, debris from broch timber interior	under 605, found between stones 613
616	6	Compact	dark brown black	clay silt with frequent charcoal	lower deposit of burnt debris within stones 613, debris from broch timber interior	under 615, found between stones 613, over 621,
617	6	Loose		small angular stones	debris from wall core?	under 605, over 603 & 623, 618
618	6	Compact		angular flat stones, sloping away from 603	collapse wall from external wall face of broch	under 616, 613 & 617
619	6			large angular stones	wall core of well laid rubble	under 604
620	6	Loose	dark brown black	silty sand	floor deposit of broch pre-demolition	under 607, over 624
621	6	Medium compaction	dark brown black	clay with small stones, charcoal & burnt bone	demolition debris from broch	under 616, over 622 & 621

622	6			large angular slabs, flat	outer slabbed surface	over bedrock, under 621 & 618
623	6	Compact	medium orange brown	clay	floor surface within broch	under 621 & 618, over bedrock, abuts foundation course of broch wall 603
624	6	Compact		small rounded cobbles	Interior surface of broch, cobbles infilling bedrock	under 607, over bedrock
625	6	Compact		flat slabs	Interior surface of broch, flat slabs infilling bedrock	under 620, over bedrock
800	8	Loose	dark brown black	stony sand/silt	Turf & roots	over all
801	8	Loose	dark brown black	stony sand/silt	topsoil	under 800, over 804
802	8	Compact		flat slabs	earth & stone enclosure bank	under 800, over 808 & 807
803	8	Loose	mid brown	large angular stones & sandy silt	earth & stone enclosure bank	under 800, over 808 & 809
804	8	Compact		large angular stones & sandy silt	earth & stone enclosure bank?	under 801, over 805
805	8	Medium compaction	dark grey black	silty sand with clay, charcoal rich silt and angular rubble	occupation layer?	under 804 & 806, over 811
806	8	Loose	dark reddish brown	angular rubble	earth & stone enclosure bank?	under 804, over 805, abuts 807
807	8			small flat slabs and angular stones	earth & stone enclosure bank?	abuts 808, under 802, over 805
808	8			small flat slabs	intermediate wall face within broch	under 802, abutted by 807, =?809
809	8			Large flat slabs and boulders	Outer face of broch wall	under 812, =? 807
810	8	Loose		small angular stones, voided	modern scree	over 812, under 803
811	8	Compact	dark brown black	angular stones & sandy silty	demolition rubble from broch	under 805, over 820 & 822
812	8	Medium compaction	reddish brown	silty sand with small stones	demolition rubble from broch	under 803, over 813
813	8	Medium compaction	dark brown black	sandy silt and small stones	OGS? Outside the broch	under 812, over 815
814	8			large single stone	foundation stone of broch wall 809	under 809

815	8	Medium compaction	dark brown black	sandy silt with charcoal	possible post-hole/patch of burning	under 813
816	8		dark brown black	carbonised stake	possible stake within linear feature 817	under 818, cut into 817
817	8			linear cut	linear feature	cut into 805, filled with 818
818	8	Loose	dark grey brown	clay silt & rubble	fill of linear feature	fill of 817, under 804
819	8	Loose	dark grey brown	clay silt	fill of a possible post-hole?	cut into 821
820	8			large boulders and flat slabs	inner face of broch wall	under 811
821	8	Loose	reddish brown	sand and small stones	demolition debris	under 811
822	8	Compact	dark brown black	angular stones & sandy silty	wall core	under 811, abuts 820
823	8	Medium compaction	reddish brown	small stones & sandy silt	demolition debris	under 812
824	8	Compact	mid brown	gravel & stones	natural subsoil?	under 813
900	9	Compact	brown	turf and soil	topsoil	over 901
901	9	Loose	brown	rubble with soil	tumble or levelling	under 900, over 903, 902
902	9	N/A	N/A	drystone wall	outer defence	under 903, 905, over 910
903	9	Loose	black	stone chips, black soil with charcoal	levelling material	under 901, over 905, 904
904	9	Voided	N/A	Large stone blocks	tumbled wall face	under 903, over 907, 908
905	9	Loose	brown	rubble with soil	tumbled wall stones	under 903, over 907, 908
906	9	Loose	brown	rubble with soil	tumbled wall	under 901, over 907, 908
907	9	Mixed	light brown	sticky clay with large flat slabs	paving	under 905, over 909, 911
908	9	Loose	stony	stone chips	construction layer of wall 902	under 905, over 910
909	9	Hard	black	sticky clay with charcoal, small stones and bone fragments	pre-wall occupation	under 907, over 911
910	9	Hard	black	sticky clay with charcoal, small stones and bone fragments	pre-wall occupation	under 902, 907, 914, over 911
911	9	Medium compaction	pinkish	sticky clay with decayed rock	subsoil	under 909, 907, 910
912	9	Medium compaction	brown	sticky clay with small	fill of posthole	fills 913, under 907

				stones		
913	9	N/A	N/A	packing of small slabs	small posthole	cuts 910, under 907
914	9	N/A	N/A	small flat slabs of stone	paving for construction	under 908, over 910, butts 902

Appendix 2: Small Finds

Small Find	Trench	Context	Number of pieces	Material	Description
6202	1	100	3	Pottery	?Roman
6203	1	100	1	Stone	gaming piece
6204	1	100	2	Pottery	small sherds - ?Medieval
6205	1	100	1	slag	small frag
6206	1	100	1	Pottery	? Medieval
6207	1	100	1	Stone	hammer stone
6208	1	100	1	Shale	bangle fragment
6209	1	100	1	Flint	flake
6210	1	100	1	Slag	small fragment
6211	1	100	1	Pottery	probably Medieval
6212	1	100	1	Pottery	red sherd
6213	1	100	1	Fe	nail head
6214	1	100	1	Cu alloy	thin sheet fragment
6215	1	103	1	Slag	fragment
6216	1	103	1	Bone	fragment
6217	1	104	1	Bone	fragment
6218	1	100	1	Pottery	? Medieval
6219	1	107	2	Pottery	Medieval Redware
6220	1	107	28	Pottery	Medieval Redware
6221	1	107	11	Bone	Mammal
6222	1	122	10	Bone	charcoal and burnt bone fragments
6223	1	123	1	Glass	clear glass fragment - Roman
6224	1	122	1	Cu alloy	cup binding
6225	1	122	1	Bone	burnt bone fragments associated with SF 6224
6226	1	122	1	Glass	glass working waste
6227	1	122	1	Glass	clear glass fragment - Roman glass vessel
6228	1	125	1	Bone	bone and teeth
6301	6	600	1	Stone	possible stone pounder
6302	6	600	1	Pottery	?Roman
6303	6	600	1	Bone	partial sheep jaw with teeth
6304	6	600	1	Pottery	Modern
6305	6	600	2	Slag	fragments
6306	6	600	6	Fired clay	fragments
6307	6	600	5	Fired clay	fragments
6308	6	600	1	Flint	agate flake
6309	6	600	1	Pottery	?Medieval
6310	6	600	7	Flint	flint or agate fragments
6311	6	600	1	Fe	pin or nail
6312	6	601	1	Fe	nail fragment
6313	6	601	2	Fired clay	fragments

6314	6	601	1	Pottery	Modern
6315	6	601	1	Cu alloy	fragment
6316	6	601	1	Quartz	flake
6317	6	601	1	Fe	?spur or stirrup
6318	6	601	1	Pb	small fragment, possibly weight
6319	6	601	1	Pb	small fragment
6320	6	602	1	Flint	burnt flake
6321	6	600	1	Fired clay	fragment
6322	6	605	1	Fe	knife blade
6323	6	601	2	Bone	mammal teeth fragments
6324	6	601	1	Bone	mammal bone ?pig
6325	6	601	2	Pottery	Modern
6326	6	601	1	Fe	nail head
6327	6	601	4	Bone	mammal teeth
6328	6	601	1	Fe	nail bracket
6329	6	601	1	Cu alloy	tankard handle
6330	6	601	1	Cu alloy	fibula brooch
6331	6	601	1	Bone	mammal, burnt
6332	6	601	1	Bone	gaming piece: carved bone ball w/ silver pins
6333	6	601	2	Pottery	Samian sherd
6334	6	601	1	Pottery	?Medieval
6335	6	601	7	Bone	mammal teeth
6336	6	601	1	Cu alloy	man's finger ring
6337	6	601	1	Cu alloy	strip decoration
6338	6	608	1	Glass	blue bead
6339	6	607	1	Stone	spindle whorl
6340	6	607	1	Metal	clasp
6341	6	607	several	Bone	mammal teeth fragments
6342	6	613	1	Charcoal	Large fragment of roundwood
6343	6	621	1	Pottery	?Roman
6344	6	620	7	Bone	mammal teeth fragments
6345	6	619	1	Slag	fragment
6400	6	620	1	Stone	unfinished spindle whorl
6401	8	800	1	Glass	Modern
6402	8	801	2	Stone	pinning stones
6403	8	801	1	Stone	possible tool
6404	8	805	1	Fe	nail fragment
6405	8	805	2	Slag	slag fragments
6406	8	811	1	Fe	fragment of knife blade
6407	8	811	1	Fe	spearhead
6408	8	810	1	Elytra	beetle casing
6409	8	805	1	Fe	nail
6410	8	810	1	Cu alloy	Modern button
6411	8	811	several	Bone	burnt fragments
6412	8	805		Charcoal	fragments
6413	8	811	1	Bone	burnt fragments
6414	8	811	12	Bone	mammal long bone fragments
6415	8	819	1	Bone	mammal bone
6416	8	811	several	Bone	mammal bone
6417	8	821	1	Quartz	quartz
6418	8	805	1	Charcoal	charcoal
6419	8	821	2	Bone	mammal bone & teeth
6420	8	821	4	Bone	burnt
6421	8	821	1	Charcoal	from under rubble

6422	8	821		Bone	?human remains
6423	8	821	1	Fe	Rectilinear object
6424	8	821		Bone	human remains - more of SF 6422
6501	9	901	1	Stone	polishing stone
6502	9	901	1	Pb	fragment
6503	9	901	1	Cu alloy	small fragment
6504	9	901	1	Cu alloy	folded plate fragment
6505	9	901	1	Fe	fragment / lump
6506	9	901	1	Fe	nail
6507	9	903	1	Glass	Melon bead fragment
6508	9	903	1	Glass	Roman glass fragment
6509	9	903	1	Cu alloy	Sheet fragments
6510	9	903	1	Cu alloy	Sheet fragments
6511	9	903	1	Cu alloy	Sheet fragments
6512	9	903	1	Cu alloy	washer
6513	9	903	1	Cu alloy	casting waste
6514	9	903	3	Cu alloy	fragments ?boss
6515	9	903	1	Wood	fragment of charred wood
6516	9	903	1	Pb	fragment
6517	9	903	1	Wood	charred wooden handle
6518	9	903	1	Cu alloy	fragment
6519	9	903	1	Cu alloy	fragment
6520	9	903	2	Cu alloy	fragments
6521	9	903	1	Cu alloy	fragment
6522	9	903	1	Cu alloy	fragment with bone fragment
6523	9	903	1	Stone	ball
6524	9	904	1	Bone	?human bone
6525	9	903	1	Bone	mammal
6526	9	903	1	Bone	mammal
6527	9	903	many	Bone	mammal bone and teeth
6528	9	903	many	Bone	mammal
6529	9	905	1	Cu alloy	fragment
6530	9	906	1	Glass	glass drop - melted Roman glass
6531	9	906	1	Fe	tool
6532	9	908	1	Stone	smoothing stone
6533	9	910	1	Ceramic	furnace lining
6534	9	910	1	Bone	articulated bone
6535	9	910	1	Ceramic	furnace lining
6537	9	910	4	Ceramic	furnace lining

Appendix 3: Drawings

Drawing	Trench	Contexts	Description	Scale	Type	Date	Initials
100	1	101, 102, 109	Plan of bank after turf removed	1:20	Plan	14-8-2012	TLO
101	1	100, 101, 102, 105, 111, 112, 109, 104, 110, 111	South facing section of bank & demolition debris	1:10	Section	15-8-2012	JWI
102	1	201, 116, 114, 115, 117, 118, 119	Plan of trench extension after de-turfing.	1:20	Plan	21-8-2012	TLO
103	1	116, 049	N facing section	1:10	Section	24-8-2012	TLO

104	1	025, 042, 090, 026, 087, 060, 043	Trace of broch floor plan Dwg 29	1:20	Plan	23-8-2012	JWI
105	1	127, 122	Plan of cleaned area below slabs	1:20	Plan	24-8-2012	JWI
106	1	116, 125, 126, 128	Profile of batter of outer wall	1:10	Section	25-8-2012	ENC
107	1	116	Plan of broch wall top	1:50	Plan	25-8-2012	ENC
600	6	605, 602, 603	Area of burning and debris	1:20	Plan	16-8-2012	SAD
601	6	609, 610, 611, 605	Possible single course of walling	1:20	Plan	16-8-2012	MCO
602	6	602, 608, 609	North end of trench	1:20	Plan	17-8-2012	MCO
603	6	606, 612, 604	Plan of 612 after 601 removed	1:20	Plan	17-8-2012	KCO
604	6	613	North end of trench from outer wall north	1:20	Plan	21-8-2012	MCO
605	6	613	North end of trench	1:20	Plan	21-8-2012	SAD
606	6	603, 613, 617	Composite drawing of 604 and 605	1:20	Plan	21-8-2012	TIP
607	6	600, 601, 606, 607, 619, 603, 604	Section drawing of trench on east side	1:20	Plan	22/08/2012	AKL
608	6	606	Plan of inner wall of broch	1:20	Plan	23-8-2012	AKL
609	6	603	Plan of outer wall	1:20	Plan	23-8-2012	GJA
610	6	601, 602, 609, 610, 613, 614, 615, 616, 617, 618, 621, 623	Section of north end of trench beyond outer wall	1:10	Section	23-8-2012	MCO
611	6	606, 620, 624, 625	South end of trench beyond inner wall	1:20	Plan	23-8-2012	SAD
800	8	802	top of rampart	1:20	Plan	08/09/2012	JMH
801	8	805, 806	Plan drawing of trench to top of rampart	1:20	Plan	08/11/2012	DDO
802	8	806, 807, 808, 809	Plan drawing of trench from top of rampart to eastern end of trench	1:20	Plan	08/11/2012	JMH
803	8	805, 806, 811	Plan drawing of west end of trench.	1:20	Plan	16-8-2012	ZST
804	8	807, 808, 809, 812	Plan drawing of east end of Trench 08	1:20	Plan	17-8-2012	DDO
805	8	805, 806, 811	Plan drawing of 805 defined by cleaning	1:20	Plan	17-8-2012	YRO
806	8	805, 816	Plan drawing, possible linear feature in 805	1:20	Plan	19-8-2012	YRO
807	8	819	Plan of 819	1:20	Plan	21-8-2012	KCO
808	8	818, 817, 805,	North facing section through 818	1:10	Section	21-8-2012	YRO
809	8	815, 814, 809	Broch wall & feature 815	1:20	Plan	21-8-2012	JMH
810	8	800, 801, 804, 805, 806, 811	South facing middle section	1:10	Section	22-8-2012	YRO

811	8	800, 802, 807, 808, 809, 812	South facing middle section	1:10	Section	22-8-2012	JMH
812	8	803, 810, 809, 812, 813, 815	South facing section, east end	1:10	Section	24/08/2012	TLO
813	8	800, 801, 804, 805, 811, 820	South facing section, west end	1:20	Plan		
814	8	821, 820	Plan of bone	1:20	Plan	24-08-012	TLO
901	9	903, 901	Extent of 903	1:20	Plan	12/08/2012	ENC
902	9	902	surface of wall 902 when exposed	1:20	Plan	13-8-2012	DBR
903	9	904, 905, 902	After removal of 903	1:20	Plan	15-8-2012	ENC
904	9	902, 907, 908	Paving 907	1:20	Plan	21-8-2012	ENC
905	9	910, 914, 913, 911, 907	Final plan of 910	1:20	Plan	22-8-2012	ENC
906	9	900, 902, 903, 901, 904, 908, 907, 914, 910, 911,	West facing section	1:10	Section	23-8-2012	ENC
907	9	900, 901, 903, 906, 902, 908, 914, 910, 911, 907	East facing section	1:10	Section	23-8-2012	ENC
908	9	910, 911, 902	Wall face & pinning stones	1:20	Plan	23-8-2012	ENC
909	9	910, 911	910 & 911 after removal of 907, 908 & 909.	1:20	Plan	21-8-2012	ENC
910	9	903	distribution of small finds in 903	1:20	Plan	31-8-2012	ENC
911	9	912, 910, 913	section through 912 (see Dwg 911)	1:10	Section	22-8-2012	ENC

Appendix 4: Samples

Sample	Trench	Context	Size	Material	Reason for sample
100	1	106	≥10L	Slag and charcoal in earth pocket in stone bank	C14 and palaeobotanical analysis
101	1	105	≥10L	Possible posthole fill	C14 and palaeobotanical analysis
102	1	112	≥10L	Part of posthole - on other side of possible packing stone (111)	C14 and palaeobotanical analysis
103	1	103	≥10L	Cover soil of stone bank (104)	C14 and palaeobotanical analysis
104	1	116	≥10L	Sample of burnt deposit	C14 and palaeobotanical analysis
105	1	121	≥10L	Fill of possible posthole	C14 and palaeobotanical analysis
106	1	122	≥10L	Charcoal from beneath floor	C14 and palaeobotanical analysis
107	1	124	<1L	Clay bonding from facing stones (not for flotation)	Soil ID and analysis
108	1	126	≥10L	Weathered chippings from stones in 110	C14 and palaeobotanical analysis

109	1	130	≥10L	Posthole	C14, palaeobotanical analysis & bone analysis
110	1	127	≥10L	Redeposited natural?	C14 and palaeobotanical analysis
111	1	133	≥10L	From beneath floor slabs	C14 and palaeobotanical analysis
112	1	126	<1L	Weathered chippings from stones in 110	C14 and palaeobotanical analysis
600	6	602	<5L	Lens of burning	C14 and palaeobotanical analysis
601	6	602	≥10L	Lens of burning	C14 and palaeobotanical analysis
602	6	601	≥10L	Posthole	C14 and palaeobotanical analysis
603	6	605	≥10L	Midden and debris =?015	C14 and palaeobotanical analysis
604	6	607	≥10L	Collapsed burnt debris from broch interior	C14 and palaeobotanical analysis
605	6	614	<5L	Clay deposit	Soil ID and analysis
606	6	615	≥10L	Burnt debris within stones 613, debris from broch timber interior	C14 and palaeobotanical analysis
607	6	616	<5L	Lower deposit of burnt debris within stones 613, debris from broch timber interior	Clay, charcoal and bone
608	6	621	≥10L	Demolition debris from broch	C14, palaeobotanical analysis & bone analysis
609	6	620	≥10L	Floor deposit of broch pre-demolition	C14, palaeobotanical analysis, bone & small find analysis
610	6	623	≥10L	Layer just above bedrock	C14 and palaeobotanical analysis
800	8	805	<5L	Occupation layer?	C14 and palaeobotanical analysis
801	8	816	<1L	Possible carbonised stake	C14 and palaeobotanical analysis
802	8	818	≥10L	Linear feature	C14 and palaeobotanical analysis
803	8	819	≥10L	Posthole	C14 and palaeobotanical analysis
804	8	815	≥10L	Possible post-hole/patch of burning	C14 and palaeobotanical analysis
805	8	815	≥10L	Possible post-hole/patch of burning	C14 and palaeobotanical analysis
806	8	813	≥10L	OGS? Outside the broch	C14 and palaeobotanical analysis
807	8	813	≥10L	OGS? Outside the broch	C14 and palaeobotanical analysis
901	9	903	≥10L	Levelling material	C14 and palaeobotanical analysis
902	9	909	≥10L	Pre-wall occupation	C14 and palaeobotanical analysis
903	9	912	<5L	Posthole	C14 and palaeobotanical analysis
904	9	910	≥10L	Deposit under wall	C14, palaeobotanical analysis & bone analysis
905	9	910	≥10L	Deposit under wall	C14 and palaeobotanical analysis
906	9	910	<5L	Deposit under wall	C14, palaeobotanical analysis & bone analysis
907	9	910	<1L	Deposit under wall	C14 and palaeobotanical analysis

Appendix 5: Digital Photographs

Photo	Trench	Context	Description	Date	Initials
1			General shot of de-turfing	07/08/2012	HFJ
2			General shots of deturfing	07/08/2012	HFJ
3			General shots of deturfing	07/08/2012	HFJ
4			General shots of deturfing	07/08/2012	HFJ
5			General shots of deturfing	07/08/2012	HFJ
6			General shots of deturfing	07/08/2012	HFJ
7			General shots of deturfing	07/08/2012	HFJ
8			General shots of deturfing	07/08/2012	HFJ
9			General shots of deturfing	07/08/2012	HFJ
10			General shots of deturfing	07/08/2012	HFJ
11			General shots of deturfing	07/08/2012	HFJ
12			General shots of deturfing	07/08/2012	HFJ
13			General shots of deturfing	07/08/2012	HFJ
14			General shots of deturfing	07/08/2012	HFJ
15			General shots of deturfing	07/08/2012	HFJ
16			General shots of deturfing	07/08/2012	HFJ
17			General shots of deturfing	07/08/2012	HFJ
18			General shots of deturfing	07/08/2012	HFJ
19			General shots of deturfing	07/08/2012	HFJ
20			General shots of deturfing	07/08/2012	HFJ
21			General shots of deturfing	07/08/2012	HFJ
22			General shots of deturfing	07/08/2012	HFJ
23			General shots of deturfing	07/08/2012	HFJ
24			General shots of deturfing	07/08/2012	HFJ
25			General shots of deturfing	07/08/2012	HFJ
26	1		De-turfed	07/08/2012	HFJ
27	6		De-turfed	07/08/2012	HFJ
28	6		De-turfed	07/08/2012	HFJ
29	1		De-turfed	07/08/2012	HFJ
30	9		De-turfed	07/08/2012	
31			The team	07/08/2012	HFJ
32	6		Photo of Yvonne	08/08/2012	HFJ
33	6		Topsoil and vegetation removed	08/08/2012	AKL
34	6	600	Topsoil and vegetation removed	08/08/2012	AKL
35	6	600	Topsoil and vegetation removed	08/08/2012	AKL
36	6	600	Topsoil and vegetation removed	08/08/2012	AKL
37	6	600	Hollow on western edge of trench	08/08/2012	YRO
38	6	600	Hollow on western edge of trench	08/08/2012	YRO
39	6	600	Ryan metal detecting	08/08/2012	YRO
40	6	600	Ryan metal detecting	08/08/2012	YRO
41	8	801	Grass and topsoil removed onto tumble	08/08/2012	ZST
42	8	801	Grass and topsoil removed onto tumble	08/08/2012	ZST
43	8	801 and 802	Grass and topsoil removed onto tumble	08/08/2012	ZST
44	8	801 and 802	Grass and topsoil removed onto tumble	08/08/2012	ZST
45	8	802	Top of rampart (red peg indicates metal detector find)	08/08/2012	ZST
46	8	802	Top of rampart (red peg indicates metal detector find)	08/08/2012	ZST
47			Soil sieving in action	08/08/2012	HFJ
48			Soil sieving in action	08/08/2012	HFJ
49	8		General shot	08/08/2012	HFJ

50			West of trench removing backfill	08/08/2012	HFJ
51			West of trench removing backfill	08/08/2012	HFJ
52	9		General shot	08/08/2012	HFJ
53			General shot of the site	08/08/2012	HFJ
54	6	601	General shot, turf removed onto 601	09/08/2012	HFJ
55	8		General shot	09/08/2012	HFJ
56	8	802, 810	East end of trench after 803 removed	09/08/2012	HFJ
57	1		Removing backfill	09/08/2012	HFJ
58	1		Removing backfill	09/08/2012	HFJ
59	9		General record shot after deturfing	09/08/2012	ENC
63	8	802	Top of rampart (before plan drawing)	09/08/2012	JMH
64	8	802	Top of rampart (before plan drawing)	09/08/2012	JMH
65	8	804	Tumble after removal of topsoil, small stones - showing large stones	09/08/2012	ZST
66	8	804	Tumble after removal of topsoil, small stones - showing large stones	09/08/2012	ZST
67	8	804	Eastern end of trench	09/08/2012	AMK
68	8	804	Eastern end of trench	09/08/2012	AMK
69	8	804	Eastern end of trench	09/08/2012	AMK
70	8	804	Eastern end of trench	09/08/2012	AMK
71	8	804	Eastern end of trench	09/08/2012	AMK
72	8	804	Eastern end of trench	09/08/2012	AMK
73	6	601	A spit of 601 removed	09/08/2012	YRO
74	6	601	A spit of 601 removed	09/08/2012	YRO
76	6	601	A spit of 601 removed	09/08/2012	YRO
77	6	601	Large rock uncovered in hollow	09/08/2012	YRO
78	6	601	Large rock uncovered in hollow	09/08/2012	YRO
79	6	601	2011 backfill trench	09/08/2012	YRO
82			Backfill being removed. Interior wall appearing.	09/08/2012	HFJ
83	8	805	804 removed	09/08/2012	HFJ
84	8	802	East facing slope of bank	09/08/2012	HFJ
85	8	802	Flat slabs on top of bank.	10/08/2012	HFJ
87	6	2011 trench	2011 trench cleaned out.	10/08/2012	SAD
89	6	2011 trench	2011 trench cleaned out.	10/08/2012	SAD
90	8	802 some removed	Top of bank.	10/08/2012	HFJ
91	8	802 some removed	Top of bank.	10/08/2012	HFJ
92	6	602, 603	Removing 601.	10/08/2012	HFJ
93	6	604, 601	Removing 601	10/08/2012	HFJ
94	8	805	After removal of the large stones.	10/08/2012	ZST
95	8	805	After removal of the large stones.	10/08/2012	ZST
96	8	806, 807, 808	An inner wall face, tumble to the W and broch's outer wall to the E after first cleaning.	10/08/2012	ZST
99	8	806, 807, 808	An inner wall face, tumble to the W and broch's outer wall to the E after first cleaning.	10/08/2012	ZST
100	8	809	East facing broch wall mid-ex.	10/08/2012	DDO
101	9		Blog photo of Trench 09, Ewan	10/08/2012	DBR
102	1		Blog photo of Trench 01	10/08/2012	DBR
102	1		Blog photo of Trench 01	10/08/2012	DBR
103	6	602	601 removed North of 603 stone	10/08/2012	SAD
104	6	602	601 removed N of 603 stone	10/08/2012	SAD
105	6	602	601 removed N of 603 stone	10/08/2012	SAD
106	6	602	601 removed N of 603 stone	10/08/2012	SAD

107	8	811, 809	Broch wall (outer) appearing	11/08/2012	HFJ
108	8	808, 807	802 removed, side of possible passage wall	11/08/2012	HFJ
109	1		Working shot: S facing section of unexcavated area	11/08/2012	TLO
110	6		Working shot: N end of Tr 6 with outer wall face	11/08/2012	TLO
111	6		Working shot: S-end of Tr 6	11/08/2012	TLO
112			Whole site from E	11/08/2012	TLO
113			Whole site from E	11/08/2012	TLO
114			Whole site from E	11/08/2012	TLO
115			Whole site from E	11/08/2012	TLO
116			Whole site from E	11/08/2012	TLO
117			Whole site from E	11/08/2012	TLO
118			Whole site from E	11/08/2012	TLO
119	9		Working shot	11/08/2012	TLO
120			Working shot: entire site/wide angle	11/08/2012	TLO
121			Working shot: entire site/wide angle	11/08/2012	TLO
122	8		Working shot: plan drawing	11/08/2012	TLO
123	6	602	Pre-excavation shot	11/08/2012	SAD
125	9		Ewan & glass sherd	11/08/2012	GJA
128	8		Planning	11/08/2012	GJA
129	1	101, 102, 103	Pre-excavation: edge	11/08/2012	TLO
130	1	101, 102, 103	Pre-excavation: edge	11/08/2012	TLO
131	1	101, 102	Pre-excavation: top	11/08/2012	TLO
132	8	805	Iron knife fragment SF 6406	12/08/2012	ZST
133	8	805	Iron knife fragment SF 6406	12/08/2012	ZST
134	6		Yvonne working shot	12/08/2012	TIP
135	8		Julie planning	12/08/2012	TIP
136	8		Julie planning	12/08/2012	TIP
137	8		Julie planning	12/08/2012	TIP
138	8		Julie planning	12/08/2012	TIP
139	1		Greer and Alec in Trench 01	12/08/2012	TIP
140	1		Greer and Alec in Trench 01	12/08/2012	TIP
141	1		Alec in Trench 01	12/08/2012	TIP
143	9	902	Rock tumble: north-facing	12/08/2012	DBR
144	9	902	Rock tumble: west-facing	12/08/2012	DBR
145	6	602	Half-section excavated	12/08/2012	SAD
146	6	601, 604, 606	Spit of 601 removed + 604 + inner wall face	12/08/2012	YRO
147	6	601, 604, 606	Spit of 601 removed + 604 + inner wall face	12/08/2012	YRO
148	8	807, 808	View along the bank	12/08/2012	HFJ
149	8	807, 808	View along the bank	12/08/2012	HFJ
150	6		Taking levels	12/08/2012	HFJ
151	6	604	The hollow in 604	12/08/2012	HFJ
152	6	602, 605	Planning	12/08/2012	HFJ
153	6		General view panorama	12/08/2012	HFJ
154	6		General view panorama	12/08/2012	HFJ
155	6		General view panorama	12/08/2012	HFJ
156	6		General view panorama	12/08/2012	HFJ
157	6	605	Inner wall face appearing	12/08/2012	HFJ
158	1		Broch entrance and paving	12/08/2012	HFJ
159	1		Broch entrance and paving	12/08/2012	HFJ
160	1		Broch entrance and paving	12/08/2012	HFJ

161	1		Broch entrance and paving	12/08/2012	HFJ
162	1		Interior wall and paving	12/08/2012	HFJ
163	1		Interior wall and paving	12/08/2012	HFJ
164	8	811, 809	Outer broch wall appearing	12/08/2012	HFJ
165	8	811	Burnt stones	12/08/2012	HFJ
166	8	811	Burnt stones and scree	12/08/2012	HFJ
167	8	811, 809	Burnt stones and scree in section	12/08/2012	HFJ
168	1		Interior section	12/08/2012	HFJ
169	8	807, 808	Passage face pre-excavation	12/08/2012	JMH
171	8	807, 808	Passage face pre-excavation	12/08/2012	JMH
172	8	807, 808	Passage face pre-excavation	12/08/2012	JMH
173	1	113, 112, 111, 105	Half-section of bank with possible posthole	12/08/2012	GJA
174	1	113, 112, 111, 105	Half-section of bank with possible posthole	12/08/2012	GJA
175	8		Stereoscopic sequence. Left eye west end of trench	14/08/2012	HFJ
176	8		Stereoscopic sequence. Left eye west end of trench	14/08/2012	HFJ
177	8		Stereoscopic sequence. Right eye west end of trench	14/08/2012	HFJ
178	8		Stereoscopic sequence. Right eye west end of trench	14/08/2012	HFJ
179	8		Stereoscopic sequence. Whole trench left eye	14/08/2012	HFJ
180	8		Stereoscopic sequence. Whole trench left eye	14/08/2012	HFJ
181	8		Stereoscopic sequence. Whole trench right eye	14/08/2012	HFJ
182	8		Stereoscopic sequence. Whole trench right eye	14/08/2012	HFJ
183	8		N1000 E1000 DTM" sequence". West end of trench	14/08/2012	HFJ
184	8		N1000 E1000 DTM" sequence". West end of trench	14/08/2012	HFJ
185	8		N1000 E1000 DTM" sequence". West end of trench	14/08/2012	HFJ
186	8	West end of 805 and 811	N1000 E1000 DTM" sequence - closer to edge"	14/08/2012	HFJ
187	8	West mid 805 and 811	N1000 E1002 DTM" sequence"	14/08/2012	HFJ
188	8	West mid 805 and 811	N1000 E1002 DTM" sequence "	14/08/2012	HFJ
189	8	Middle 806 and 807	N1000 E1004 DTM" sequence"	14/08/2012	HFJ
190	8	Middle 806 and 807	N1000 E1004 DTM" sequence"	14/08/2012	HFJ
191	8	Middle 806 and 807	N1000 E1004 DTM" sequence"	14/08/2012	HFJ
192	8	East mid 808 and 809	N1000 E1006 DTM" sequence"	14/08/2012	HFJ
193	8	East mid 808 and 809	N1000 E1006 DTM" sequence"	14/08/2012	HFJ

194	8	East mid 808 and 809	N1000 E1006 DTM" sequence"	14/08/2012	HFJ
195	8	East end 808 and 809	N1000 E1008 DTM" sequence"	14/08/2012	HFJ
196	8	East end 808 and 809	N1000 E1008 DTM" sequence"	14/08/2012	HFJ
197	8	East end 808 and 809	N1000 E1008 DTM" sequence"	14/08/2012	HFJ
198	8	East end 808 and 809	N1000 E1008 DTM" sequence"	14/08/2012	HFJ
199	8	East end 808, 809 and 810	N1000 E1008 DTM" sequence"	14/08/2012	HFJ
200	8	East end	Stereoscopic sequence, east end of trench, left eye	14/08/2012	HFJ
201	8	East end	Stereoscopic sequence, east end of trench, left eye	14/08/2012	HFJ
202	8	East end	Stereoscopic sequence, east end of trench, right eye	14/08/2012	HFJ
203	8	East end	Stereoscopic sequence, east end of trench, right eye	14/08/2012	HFJ
204	8	East end	N1003 E1008 DTM" sequence"	14/08/2012	HFJ
205	8	East end	N1003 E1008 DTM" sequence"	14/08/2012	HFJ
206	8	East end	N1003 E1008 DTM" sequence"	14/08/2012	HFJ
207	8	East end	N1003 E1006 DTM" sequence"	14/08/2012	HFJ
208	8	East end	N1003 E1006 DTM" sequence"	14/08/2012	HFJ
209	8	East end	N1003 E1004 DTM" sequence"	14/08/2012	HFJ
210	8	East end	N1003 E1004 DTM" sequence"	14/08/2012	HFJ
211	8	East end	N1003 E1004 DTM" sequence"	14/08/2012	HFJ
212	8	East End	N1003 E1002 DTM" sequence"	14/08/2012	HFJ
213	8	East end	N1003 E1002 DTM" sequence"	14/08/2012	HFJ
214	8	East end	N1003 E1002 DTM" sequence"	14/08/2012	HFJ
215	8	East end	N1003 E1002 DTM" sequence"	14/08/2012	HFJ
216	8	East end	N1003 E1000 DTM" sequence"	14/08/2012	HFJ
217	8	East end	N1003 E1000 DTM" sequence"	14/08/2012	HFJ
218	6		Stereoscopic left eye	14/08/2012	HFJ
219	6		Stereoscopic left eye	14/08/2012	HFJ
220	6		Stereoscopic right eye	14/08/2012	HFJ
221	6		Stereoscopic right eye	14/08/2012	HFJ
222	6		DTM" sequence south end"	14/08/2012	HFJ
223	6		N1000 E1003	14/08/2012	HFJ
224	6		E1002 E1003	14/08/2012	HFJ
225	6		E1003 N1004	14/08/2012	HFJ
226	6		E1003 N1004 DTM" Sequence"	14/08/2012	HFJ
227	6		E1003 N1006 DTM" Sequence"	14/08/2012	HFJ
228	6		E1003 N1006 DTM" Sequence"	14/08/2012	HFJ
229	6		E1003 N1008	14/08/2012	HFJ
230	6		E1003 N1008	14/08/2012	HFJ
231	6		E1003 N1010	14/08/2012	HFJ
232	6		Stereoscopic sequence left eye	14/08/2012	HFJ
233	6		Stereoscopic sequence left eye	14/08/2012	HFJ
234	6		Stereoscopic sequence right eye	14/08/2012	HFJ
235	6		Stereoscopic sequence right eye	14/08/2012	HFJ

236	6		E1000 N1010	14/08/2012	HFJ
237	6		E1000 N 1008	14/08/2012	HFJ
238	6		E1000 N1008	14/08/2012	HFJ
239	6		E1000 N1006	14/08/2012	HFJ
240	6		E1000 N1006	14/08/2012	HFJ
241	6		E1000 N1004	14/08/2012	HFJ
242	6		E1000 N1004 DTM" Sequence"	14/08/2012	HFJ
243	6		E1000 N1002 DTM" Sequence"	14/08/2012	HFJ
244	6		E1000 N1002 DTM" Sequence"	14/08/2012	HFJ
245	6		E1000 N1000	14/08/2012	HFJ
246	6	601, 605	605 Inner wall beneath 601	14/08/2012	HFJ
247	6	601, 605	Inner wall beneath 601	14/08/2012	HFJ
248	1	101, 102, 109	101 and 102 covering not previously excavated bank in NW corner of Trench 01	14/08/2012	TLO
249	1	101, 102, 109	101 and 102 covering not previously excavated bank in NW corner of Trench 01	14/08/2012	TLO
250	6	601	Copper alloy handle(?) in situ. SF 6329	14/08/2012	YRO
251	6	601	Copper alloy handle(?) close up. SF 6329	14/08/2012	YRO
252	6	601	Copper alloy handle (?) in detail. SF 6329	14/08/2012	YRO
253	6	601	Brooch in situ. SF 6330	15/08/2012	AKL
254	6	601	Brooch in situ. SF 6330	15/08/2012	KCO
255	6	601	Brooch in situ. SF 6330	15/08/2012	KCO
256	6	601	Brooch in situ. SF 6330	15/08/2012	KCO
257	8	810	Record shot of (810)	15/08/2012	GJA
258	6		wooden ball in situ SF 6332	15/08/2012	ENC
259	8		Blog, Ryan in Trench 08	15/08/2012	ZST
260	8	807, 808, 809	Intermediate walling within broch wall. Beneath the bank.	15/08/2012	ZST
264	8	807, 808, 809	Intermediate walling within broch wall. Beneath the bank.	15/08/2012	ZST
265	8	807, 808, 809	Intermediate walling within broch wall. Beneath the bank.	15/08/2012	ZST
266	8	807, 808, 809	Intermediate walling within broch wall. Beneath the bank.	15/08/2012	ZST
267	8	811, 806, 805	W part of the trench	15/08/2012	ZST
268	8	811, 806, 805	W part of the trench	15/08/2012	ZST
269	8	811, 805	W part of the trench	15/08/2012	DDO
270	8	811, 805	The charred area (805)	15/08/2012	DDO
272			HS visit	15/08/2012	ZST
273	8	810	Record shot of (810)	15/08/2012	GJA
275	6	601	Copper ring close-up. SF 6336	15/08/2012	AKL
276	6	601	Copper ring from side of trench. SF 6336	15/08/2012	AKL
277	9	903	After removed S part	15/08/2012	ENC
278	9	903	After cleaning S part of the trench	15/08/2012	ENC
279	9	903	After cleaning S part of trench	15/08/2012	ENC
280	9	903	E part of (902)	15/08/2012	ENC
281	9	903	Mid part	15/08/2012	ENC
282	9	903	W part	15/08/2012	ENC
283	9	903	W part	15/08/2012	ENC
284	9	902	(902) wall face	15/08/2012	ENC
285	9	904	(902) and (904)	15/08/2012	ENC
286	9	903	After rain	16/08/2012	ENC
287	9	902	After rain	16/08/2012	ENC
288	9	903	After rain	16/08/2012	ENC

289	1	105, 104, 110	S-facing section of stone bank with possible posthole	16/08/2012	TLO
290	1	105, 104, 110	S-facing section of stone bank with possible posthole	16/08/2012	TLO
293	6	608	North extension after removal of turf and topsoil	16/08/2012	MCO
294	6	608	North extension after removal of turf and topsoil	16/08/2012	MCO
295	6	608	North extension after removal of turf and topsoil	16/08/2012	MCO
296	6	608	North extension east side with planning frame	16/08/2012	MCO
297	6	608	North extension west side with planning frame	16/08/2012	MCO
298	6		Whole trench	16/08/2012	MCO
299	6		Whole trench	16/08/2012	MCO
300	8		Shot for blog	16/08/2012	MCO
301	8		Shot for blog	16/08/2012	MCO
302	8		Shot for blog	16/08/2012	MCO
303	8		Shot for blog	16/08/2012	MCO
304	1		Shot for blog	16/08/2012	MCO
305	6	607	Context 607, inside broch, inside face	16/08/2012	KCO
306	6	607	Context 607, inside face	16/08/2012	KCO
307	6	607	Context 607, inside face from south	16/08/2012	KCO
308	6	607	Context 607, inside face of broch wall	16/08/2012	KCO
309	6	609, 610, 611	Detail of possible wall base plus associated area	16/08/2012	MCO
310	6	609, 610, 611	Detail of possible wall base plus associated area	16/08/2012	MCO
311	6	609, 610, 611	Detail of possible wall base plus associated area	16/08/2012	MCO
312	6	609, 610, 611	Detail of possible wall base plus associated area	16/08/2012	MCO
313	6	609, 610, 611	Detail of possible wall base plus associated area with planning frame east side	16/08/2012	MCO
314	6	609, 611	Detail of possible wall base plus associated area with planning face west side	16/08/2012	MCO
315	1	103, 104, 105	Remnants of stone bank with 1/4-section of posthole (103)	16/08/2012	TLO
316	1	103, 104, 105	Remnants of stone bank with 1/4-section of posthole (103)	16/08/2012	TLO
317	8	809, 810, 812	Edge of broch wall (810) mid-excavation	16/08/2012	JMH
319	8	809, 810, 812	Edge of broch wall (810) mid-excavation	16/08/2012	JMH
320	6		General view	16/08/2012	
321	6		General view	16/08/2012	
322	6		General view	16/08/2012	
323	6		General view	16/08/2012	
324	6		General view	16/08/2012	
325	6		General view	16/08/2012	
326	8		General view	16/08/2012	
327	8	807, 808	Top of Intermediate walling	16/08/2012	
328	8		Daniel planning	16/08/2012	
329	8		Daniel planning	16/08/2012	
330	8		Daniel planning	16/08/2012	
331	6	605	Northern area of Trench 06 cleaned	17/08/2012	SAD

332	6	605	Northern area of Trench 06 cleaned	17/08/2012	SAD
333	6	605	Northern area of Trench 06 cleaned	17/08/2012	SAD
334	6	605	Northern area of Trench 06 cleaned	17/08/2012	SAD
335	9	Section, 902	Record shot of section and wall 902	17/08/2012	ENC
336	9	Section	Removal shot of section and north baulk	17/08/2012	ENC
337	9	Section	Removal shot of section and south baulk	17/08/2012	ENC
338	9	Section	Removal shot of section and east baulk	17/08/2012	ENC
339	6	604, 603	Toward outer wall	17/08/2012	TLO
340	6	604, 603	Toward outer wall	17/08/2012	TLO
341	6	604	Middle of wall and side (no [603])	17/08/2012	TLO
342	6	604	Middle of wall and side (no [603])	17/08/2012	TLO
343	6	604	With inner wall face (no [603])	17/08/2012	TLO
344	6	604	With inner wall face (no [603])	17/08/2012	TLO
345	6	604	With inner wall face	17/08/2012	TLO
346	6	604	With inner wall face	17/08/2012	TLO
347	6	604	With inner wall face	17/08/2012	TLO
348	6	604	Inner wall with inner wall face	17/08/2012	TLO
349	6	604	Inner wall middle section	17/08/2012	TLO
350	6	604	Inner wall middle section	17/08/2012	TLO
351	6	603, 604	Inner wall with outer wall face [603]	17/08/2012	TLO
352	6	603, 604	Inner wall with outer wall face [603]	17/08/2012	TLO
353	6	603, 604	Inner wall with outer wall face [603]	17/08/2012	TLO
354	6	604	Inner wall with outer wall face [603]	17/08/2012	TLO
355	6	604	Inner wall with outer wall face [603]	17/08/2012	TLO
356	6	604	Inner wall with inner wall face	17/08/2012	TLO
357	6	604	Inner wall with inner wall face	17/08/2012	TLO
358	6	604	Inner wall with inner wall face	17/08/2012	TLO
359	8	811	A spit of 10cm removal	17/08/2012	FWA
360	1		Rubble in base of the trench	17/08/2012	
361	1		Rubble in base of the trench	17/08/2012	
362	8	812, 809	Removed tumble 810 onto 812 at edge of broch wall.	17/08/2012	DBR
363	8	812, 809	Removed tumble 810 onto 812 at edge of broch wall.	17/08/2012	DBR
364	8	809	Action shot of working in Trench 08.	17/08/2012	DDO
365	8	805	Removed soil onto charcoal layer 805.	17/08/2012	DDO
366	8	805, some 800	Mid ex shot showing sample 800	17/08/2012	DDO
367	6		General shot	17/08/2012	YRO
368	6		General shot	17/08/2012	YRO
369	1		General shot	17/08/2012	YRO
370	1		General shot	17/08/2012	YRO
371	8		General shot	17/08/2012	YRO
372	6	605	Northern end of trench.	17/08/2012	MCO
373	6	605	Northern end of trench.	17/08/2012	MCO
375			Sieving, moody view	18/08/2012	
376	6		General view	18/08/2012	
377	1		Jennifer & Alec	18/08/2012	
378	8		General view	18/08/2012	
379	8		General view	18/08/2012	
380	9		General view	18/08/2012	
381	9		General view	18/08/2012	
382			Moody view	18/08/2012	
383			David digging	18/08/2012	
384			Moody view	18/08/2012	

385			View through planning frame	18/08/2012	
386	6		General view	18/08/2012	
387	6		General view	18/08/2012	
388	6		Find in situ E 1001.86 N1001.55 SF 6339	18/08/2012	ERO
389	9	906	Ewan with find in situ SF 6531	18/08/2012	HFJ
390	9	906	Ewan with find in situ SF 6531	18/08/2012	HFJ
391	9	906	Find in situ with scale. SF 6531	18/08/2012	ERO
392	9	906	Find in situ taken from S. SF 6351	18/08/2012	ERO
393	9		Ewan with find	18/08/2012	HFJ
395	6	613	613 once 605 has been removed	18/08/2012	GJA
398	6	613	613 once 605 has been removed	18/08/2012	GJA
399	6	613	613 once 605 has been removed	18/08/2012	GJA
400	6	613	613 once 605 has been removed	18/08/2012	GJA
401	8	805, 818, 817	Linear feature running through 805.	18/08/2012	YRO
402	8	805, 818, 817	Linear feature running through 805.	18/08/2012	YRO
403	8	805, 818, 817	Linear feature running through 805.	18/08/2012	YRO
404	8	805, 818, 817	Linear feature running through 805.	18/08/2012	YRO
405	8	805, 818, 817	Linear feature running through 805.	18/08/2012	YRO
406	8	805, 818, 817	Linear feature running through 805.	18/08/2012	YRO
407-454			OPEN DAY		
455	9	All	After removal of 906 and 907	21/08/2012	ENC
456	9	all	After removal of 906 and 907	21/08/2012	ENC
457	9	all	After removal of 906 and 907	21/08/2012	ENC
458	9	all	After removal of 906 and 907	21/08/2012	ENC
459	9	all	After removal of 906 and 907	21/08/2012	ENC
460	9	902	902 wall face	21/08/2012	ENC
461	9	902	Paving under 907	21/08/2012	ENC
462	6	607	Surface of 607 and bedrock	21/08/2012	AKL
463	6	607	Surface of 607 and bedrock	21/08/2012	AKL
464	6	607	Surface of 607 and bedrock	21/08/2012	AKL
465	6	607	Surface of 607 and bedrock	21/08/2012	AKL
466	6	613	North end of Trench 06	21/08/2012	SAD
467	6	613	North end of Trench 06 from top of ladder	21/08/2012	TIP
468	6	613	North end of Trench six from top of ladder	21/08/2012	TIP
469	6	613	North end of Trench 06 from south	21/08/2012	SAD
470	8	819	Possible posthole/pit feature	21/08/2012	RMN
471	8	819	Possible posthole/pit feature	21/08/2012	RMN
472	6	606	General view	21/08/2012	HFJ
473	6	606	General view	21/08/2012	HFJ
474	6	606	General view	21/08/2012	HFJ
475	6		General view	21/08/2012	HFJ
476	6	606	General view	21/08/2012	HFJ
477	8		General view	21/08/2012	HFJ
478	8		General view	21/08/2012	HFJ
479	8		General view	21/08/2012	HFJ
480			General view	21/08/2012	HFJ
481	8		General view, along crest of bank, panorama	21/08/2012	HFJ
482	8		General view, along crest of bank, panorama	21/08/2012	HFJ
483	8		General view, central area of site,	21/08/2012	HFJ

			panorama		
484	8, 1, 6		General view, central area of site, panorama	21/08/2012	HFJ
485	6		General view, central area of site, panorama	21/08/2012	HFJ
486	6		General view, central area of site, panorama	21/08/2012	HFJ
487	6		General view, central area of site, panorama	21/08/2012	HFJ
488	6		General view, central area of site	21/08/2012	HFJ
489	6		General view, central area of site	21/08/2012	HFJ
490	6		Mackenzie planning	21/08/2012	HFJ
491	6		Mackenzie smiling	21/08/2012	HFJ
492	6		Mackenzie planning	21/08/2012	HFJ
493	6		Mackenzie planning	21/08/2012	HFJ
494	9	907	907 in sunlight, paving under 905	21/08/2012	ENC
495	9	907	907 in sunlight, paving under 905	21/08/2012	ENC
496	9	907	907 in sunlight, paving under 905	21/08/2012	ENC
497	9	907	907 in sunlight, paving under 905 after removal of large stone	21/08/2012	ENC
498	8	817, 818	Section of linear feature 818	21/08/2012	YRO
499	8	817, 818	Section of linear feature 818	21/08/2012	YRO
500	8	817, 818	Section of linear feature 818	21/08/2012	YRO
501	1	102, 101, 115	After deturfing, cleaning of contexts 102, 101, 115	21/08/2012	TLO
502	1	102, 101, 115	After deturfing, cleaning of contexts 102, 101, 115	21/08/2012	TLO
503	1	102, 101, 115	After deturfing, cleaning of contexts 102, 101, 115 in NW corner of trench with wall	21/08/2012	TLO
504	1	102, 101, 115	After deturfing, cleaning of contexts 102, 101, 115 in NW corner of trench with wall	21/08/2012	TLO
505	1	114	After deturfing and cleaning of context 114 in NW corner of trench with wall	21/08/2012	TLO
506	1	114	After deturfing and cleaning of context 114 in NW corner of trench with wall	21/08/2012	TLO
507	1	102, 101, 115	After deturfing and cleaning of contexts 102, 101, 115 from NW corner of trench with wall	21/08/2012	TLO
508	1	102, 101, 115	After deturfing and cleaning of contexts 102, 101, 115 from NW corner of trench with wall	21/08/2012	TLO
509	1	102, 101, 115	Cleaned and deturfed contexts 102, 101, 115 in NW	21/08/2012	TLO
510	1		Photograph of sectioned NW trench	21/08/2012	TLO
511	1		Photograph of sectioned NE trench	21/08/2012	TLO
512	1		Tessi planning	21/08/2012	HFJ
513	8		Katie sampling	21/08/2012	HFJ
514	8		Yvonne section drawing	21/08/2012	HFJ
515	6		General view	21/08/2012	HFJ
516	6		General view	21/08/2012	HFJ
517			Tessa planning	21/08/2012	HFJ
518			Tessa planning	21/08/2012	HFJ
519			Jennifer digging	21/08/2012	HFJ
520			Stacy & Mackenzie	21/08/2012	HFJ
521			digging	21/08/2012	TIP
522			digging	21/08/2012	TIP
523			digging	21/08/2012	TIP
534			Alex planning	21/08/2012	TIP

525			Alex planning	21/08/2012	TIP
526			Alex planning & Heather	21/08/2012	TIP
527			Katie sampling	21/08/2012	TIP
528			Katie sampling	21/08/2012	TIP
529	8		Yvonne's section	21/08/2012	TIP
530	8		Yvonne	21/08/2012	TIP
531	8		Yvonne	21/08/2012	TIP
532	8		Ryan planning	21/08/2012	TIP
533	8		Ryan planning	21/08/2012	TIP
533	9		Ewan and wall	21/08/2012	TIP
534	9		Ewan and wall	21/08/2012	TIP
535	9		Ewan and wall	21/08/2012	TIP
536	9		Ewan and Joss	21/08/2012	TIP
537	6	616	cleaned 616	21/08/2012	SAD
538	6	616	cleaned 616	21/08/2012	SAD
539-567			SCHOOL VISIT	22/08/2012	
568	6	615, 603, 609	North side of Broch wall	22/08/2012	MCO
569	6	615	North of Broch wall	22/08/2012	MCO
570	6	615	North of Broch wall	22/08/2012	MCO
571	6	615	North of Broch wall	22/08/2012	MCO
572	9	910, 911	after cleaning	22/08/2012	ENC
573	9	910, 911	after cleaning	22/08/2012	ENC
574	9	910, 911	after cleaning	22/08/2012	ENC
575	9	910, 911	after cleaning	22/08/2012	ENC
576	9	910, 911	after cleaning	22/08/2012	ENC
577	9	910, 911	after cleaning	22/08/2012	ENC
578	9	910, 911	after cleaning	22/08/2012	ENC
579	9	910, 911	after cleaning	22/08/2012	ENC
580	9	910, 911	after cleaning	22/08/2012	ENC
581	1	118, 121	Posthole mid-ex	22/08/2012	JWI
582	1	118, 121	Posthole mid-ex	22/08/2012	JWI
583	1	118, 121	Posthole mid-ex	22/08/2012	JWI
584	1	118, 121	Posthole mid-ex	22/08/2012	JWI
585	9	913	Post-ex of P/H in centre of area 9	22/08/2012	ENC
586	9	913	Post-ex of P/H in centre of area 9	22/08/2012	ENC
587	8	815	Half section of possible posthole and ramp	22/08/2012	JMH
588	8	815	Half section of possible posthole	22/08/2012	JMH
589	8	815	Half section of possible posthole	22/08/2012	JMH
590	8	811	Spit of 811 removed	22/08/2012	DBR
591	8	811	Spit of 811 removed	22/08/2012	DBR
592	1	118	Post-ex	22/08/2012	JWI
593	1	118	Post-ex	22/08/2012	JWI
594	1	118	Post-ex	22/08/2012	JWI
595	1	118	Post-ex	22/08/2012	JWI
596	1	118	Post-ex	22/08/2012	JWI
597	1	Tumble	Working shot. Alec & Tessi	22/08/2012	JWI
598	1	Tumble	Working shot. Alec & Tessi	22/08/2012	JWI
599	1	Tumble	Working shot. Alec & Tessi	22/08/2012	JWI
600	1	Tumble	Working shot. Alec & Tessi	22/08/2012	JWI
601	1	Tumble	Working shot. Alec & Tessi	22/08/2012	JWI
602	1	Tumble	Working shot. Alec & Tessi	22/08/2012	JWI
603	1	Tumble	Working shot. Alec & Tessi	22/08/2012	JWI
604	1		Working shot - excavation of extension	22/08/2012	JWI
605	1		Working shot - excavation of extension	22/08/2012	JWI

606	1		Working shot - excavation of extension	22/08/2012	JWI
607	1	16	Possible drain? In wall face	22/08/2012	JWI
608	1	16	Possible drain? In wall face	22/08/2012	JWI
609	1	16	Possible drain? In wall face	22/08/2012	JWI
610	1	110	Working shot - section with tumble (110) and bank	22/08/2012	TLO
611	1	110	Working shot - section with tumble (110) and bank	22/08/2012	TLO
612	1	110	Working shot - section with tumble (110) and bank	22/08/2012	TLO
613	1		General view of Trench 01	22/08/2012	TLO
614	1		General view of Trench 01	22/08/2012	TLO
615	1		General view of Trench 01	22/08/2012	TLO
616	6		General view of Trench 06	22/08/2012	TLO
617	1		General view of Trench 01	22/08/2012	TLO
618	1		General view of Trench 01	22/08/2012	TLO
618	6	606	General view of Trench 06	22/08/2012	TLO
620	8	820	Inner broch wall	22/08/2012	TLO
621	1	122	Surface beneath broch floor paving	23/08/2012	JWI
622	1	122	Surface beneath broch floor paving	23/08/2012	JWI
623	1	122	Surface beneath broch floor paving	23/08/2012	JWI
624	1	122	Working shot: beneath Stone 5	23/08/2012	JWI
625	1	122	Surface beneath broch floor paving	23/08/2012	JWI
626	1	122	Surface beneath broch floor paving	23/08/2012	JWI
627	1	122	Surface beneath broch floor paving	23/08/2012	JWI
628	1	122	Broch interior with floor stones removed and inner wall	23/08/2012	JWI
629	1	122	Broch interior with floor stones removed and inner wall	23/08/2012	JWI
630			Landscape/working shot	23/08/2012	HFJ
631			Kay Craig	23/08/2012	HFJ
632			Kay Craig	23/08/2012	HFJ
633			Bedrock, slanting plane	23/08/2012	HFJ
634			Bedrock, slanting plane	23/08/2012	HFJ
635			Bedrock, slanting plane	23/08/2012	HFJ
636			Bedrock, slanting plane	23/08/2012	HFJ
637			Bedrock, slanting plane, with Joss	23/08/2012	HFJ
638			Landscape/working shot	23/08/2012	HFJ
639			Landscape/working shot	23/08/2012	HFJ
640	1	<6223>, (123) (not 122)	Roman glass (wrong context on chalkboard!)	23/08/2012	JWI
641	1	<6223>, (123) (not 122)	Roman glass (wrong context on chalkboard!)	23/08/2012	JWI
642	1	<6223>, (123) (not 122)	Roman glass (wrong context on chalkboard!)	23/08/2012	JWI
643	1	122	Cleaned surface beneath broch floor stones	23/08/2012	JWI
644	1	122	Cleaned surface beneath broch floor stones	23/08/2012	JWI
645	1	122	Cleaned surface beneath broch floor stones	23/08/2012	JWI
646	1	122	Cleaned surface beneath broch floor stones	23/08/2012	JWI
647	1	122	Cleaned surface beneath broch floor stones	23/08/2012	JWI
648	1	122	Cleaned surface beneath broch floor stones	23/08/2012	JWI
649			Working shot: Stacey and Scots Cam	23/08/2012	JWI
650			Working shot: Stacey and Scots Cam	23/08/2012	JWI

651	6		Working shot: Trench 06	23/08/2012	JWI
652	6	606, 624, 625	South end of trench with bedrock	23/08/2012	SAD
653	6	606, 624, 625	South end of trench with bedrock	23/08/2012	SAD
654	9	902, 910	After removal of 910 *	23/08/2012	ENC
655	9	902, 910	After removal of 910	23/08/2012	ENC
656	9	902, 910	After removal of 910	23/08/2012	ENC
657	9	902, 910	After removal of 910	23/08/2012	ENC
658	9	902, 910	After removal of 910	23/08/2012	ENC
659			Jennifer & Jules surveying	23/08/2012	HFJ
660			Max & Greer planning	23/08/2012	HFJ
661			Max & Greer planning	23/08/2012	HFJ
662			Jennifer taking level	23/08/2012	HFJ
663			Alex planning	23/08/2012	HFJ
664			Katie & Yvonne planning	23/08/2012	HFJ
665			Tessi planning	23/08/2012	HFJ
666			Tessi planning	23/08/2012	HFJ
667			Ryan taking notes	23/08/2012	HFJ
668	1		General view	23/08/2012	HFJ
669	1		General view	23/08/2012	HFJ
670	1		General view	23/08/2012	HFJ
571	1		General view	23/08/2012	HFJ
672			Stacy planning	23/08/2012	HFJ
673	6		Moody shot	23/08/2012	HFJ
674	6		Max & Greer planning	23/08/2012	HFJ
675			Katie & Yvonne planning	23/08/2012	HFJ
677	8		Ryan & Katie	23/08/2012	HFJ
678	8		Tessi planning	23/08/2012	HFJ
679	1		Julia digging	23/08/2012	TPO
680	1		General view	23/08/2012	TPO
681	1		General view	23/08/2012	TPO
682	9		General view	23/08/2012	TPO
683	9		General view	23/08/2012	TPO
684	9		General view	23/08/2012	TPO
685	1	114	Outer wall face down to (125) and (126)	23/08/2012	JDU
687	1	114	Outer wall face down to (125) and (126)	23/08/2012	JDU
688	1	114	Outer wall face down to (125) and (126)	23/08/2012	JDU
689	6	603, 606	Whole trench, from ladder	24/08/2012	HFJ
690	6	603, 606	Whole trench, from ladder *	24/08/2012	HFJ
691	6	606	Interior of broch	24/08/2012	HFJ
692	6	606	Stereoscopic left, from ladder	24/08/2012	HFJ
693	6	606	Stereoscopic right, from ladder	24/08/2012	HFJ
694	6	606	DTM Sequence 0 metres	24/08/2012	HFJ
695	6	606	DTM Sequence 2 metres	24/08/2012	HFJ
696	6	606	DTM Sequence 4 metres	24/08/2012	HFJ
697	6	606	DTM Sequence 6 metres	24/08/2012	HFJ
698	6	606	DTM Sequence 8 metres	24/08/2012	HFJ
699	6	606	DTM Sequence 10 metres	24/08/2012	HFJ
700	6	603	Stereoscopic left	24/08/2012	HFJ
701	6	603	Stereoscopic right *	24/08/2012	HFJ
702	6	603	DTM Sequence 10 metres	24/08/2012	HFJ
703	6	603	DTM Sequence 8 metres	24/08/2012	HFJ
704	6	603	DTM Sequence 6 metres	24/08/2012	HFJ
705	6	603	DTM Sequence 4 metres	24/08/2012	HFJ
706	6	603	DTM Sequence 2 metres	24/08/2012	HFJ

707	6	603	DTM Sequence 0 metres	24/08/2012	HFJ
708	1		Jennifer digging	24/08/2012	HFJ
709	6	603	broch wall	24/08/2012	HFJ
710	6	605	tumble	24/08/2012	HFJ
711	6	605	tumble	24/08/2012	HFJ
712	6	605	tumble	24/08/2012	HFJ
713	6		digging over wall core	24/08/2012	HFJ
714	6		happy trench	24/08/2012	HFJ
715	8		happy trench	24/08/2012	HFJ
716	1		happy trench	24/08/2012	HFJ
717	1		tired trench	24/08/2012	HFJ
718	1		happy trench	24/08/2012	HFJ
719	1	122, 127	Cleaned surface beneath broch floor stones	24/08/2012	JWI
720	1	122, 127	Cleaned surface beneath broch floor stones	24/08/2012	JWI
721	1	122, 127	Cleaned surface beneath broch floor stones	24/08/2012	JWI
722	6	623, 601, 602, 605, 618	West facing section	24/08/2012	MCO
723	6	623, 601, 602, 605, 618	West-facing section from drawing 610	24/08/2012	MCO
724	6	623, 601, 602, 605, 618	West-facing section from DWG 610	24/08/2012	MCO
725	6		West-facing section from DWG 610	24/08/2012	MCO
726	6	623, 601, 602, 605, 618	West-facing section moving south	24/08/2012	MCO
727	6	623, 601, 602, 605, 618	West-facing section moving south	24/08/2012	MCO
728	6	623, 601, 602, 605, 618	West-facing section moving south	24/08/2012	MCO
729	6	623, 601, 602, 605, 618	West-facing section moving south	24/08/2012	MCO
730	1		Outer face of broch wall	24/08/2012	DBR
731	1		Outer face of broch wall *	24/08/2012	DBR
732	1		Outer face of broch wall	24/08/2012	DBR
733	1		Outer face of broch wall	24/08/2012	DBR
734	1		Outer face of broch wall	24/08/2012	DBR
735	1		Outer face of broch wall	24/08/2012	DBR
736	1		Outer face of broch wall	24/08/2012	DBR
737	1		Outer face of broch wall	24/08/2012	DBR
738	1		Outer face of broch wall	24/08/2012	DBR
739	1		Outer face of broch wall	24/08/2012	DBR
740	1		Outer face of broch wall *	24/08/2012	DBR
741	1	114	Outer face of broch wall	24/08/2012	DBR
742	1		Charlotte scanning	24/08/2012	KCO
743	1		Charlotte scanning	24/08/2012	KCO
744			General view	24/08/2012	KCO
745	8		South-facing section moving west-east, 0-2m	24/08/2012	DBR
746	8		South-facing section moving west-east, 0-2m	24/08/2012	DBR
747	8		South-facing section moving west-east, 2-4m	24/08/2012	DBR
748	8		South-facing section moving west-east, 4-	24/08/2012	JMH

			6m		
749	8		South-facing section moving west-east, 6-8m	24/08/2012	KCO
750	1		Trench 01, general	24/08/2012	KCO
751	8		South-facing section moving west-east, 8-10m	24/08/2012	KCO
752	8		West-facing profile, east end of trench	24/08/2012	KCO
753	8	[809]	East-facing outer broch wall	24/08/2012	KCO
754	8	[820]	West facing inner broch wall	24/08/2012	KCO
755	8	(821), [820]	Pre-ex shot of (821)	24/08/2012	KCO
756	8		East-facing section, west end of trench	24/08/2012	KCO
757	8		East-facing section, west end of trench	24/08/2012	KCO
758	9		Main W baulk	24/08/2012	ENC
759	9		Main west baulk	24/08/2012	ENC
760	9		Main east baulk	24/08/2012	ENC
761	9		Main east baulk	24/08/2012	ENC
762	1	128, 126	Base of wall [114] gravel and clay layer	24/08/2012	TLO
763	1	128, 126	Gravel and clay at base of wall [114]	24/08/2012	TLO
764	1	128, 126	Gravel and clay at base of wall [114] wide shot	24/08/2012	TLO
765			Blog: BBC crew	24/08/2012	KCO
766	1	129, 130	Mid-ex: possible posthole in broch interior	24/08/2012	JWI
767	1	129, 130	Mid-ex: possible posthole in broch interior	24/08/2012	JWI
768	1	129, 130	Mid-ex: possible posthole in broch interior	24/08/2012	JWI
769	1	129, 130	Mid-ex: possible posthole in broch interior	24/08/2012	JWI
770	1	129, 130	Mid-ex: possible posthole in broch interior	24/08/2012	JWI
771			Blog: rainclouds	24/08/2012	JWI
772			Blog: rainclouds	24/08/2012	JWI
773	8		mammal skull (?human)	24/08/2012	JWI
774	8		Ryan, David & Tessi	24/08/2012	JWI
775	8	821	Human remains in west end of trench SF 6922	24/08/2012	RMN
776	8	821	Human remains in west end of trench SF 6922	24/08/2012	RMN
777	8	821	Human remains in west end of trench SF 6922	24/08/2012	RMN
778	8	821	Human remains in west end of trench SF 6922	24/08/2012	RMN
779	8	821	Human remains from Trench 08	24/08/2012	RMN
780	8	821	Human remains from Trench 08	24/08/2012	RMN
781	6		Whole trench	24/08/2012	RMN
782	6		West facing section, possible intermediate wall	24/08/2012	TIP
783	6		West facing section, possible intermediate wall	24/08/2012	TIP
784	6		West facing section	24/08/2012	TIP
785	6		West facing section	24/08/2012	TIP
786	6		West facing section	24/08/2012	TIP
787	6		Bedrock beneath wall face 603	24/08/2012	TIP
788	6		Bedrock beneath wall face 603	24/08/2012	TIP
789	6		Bedrock beneath wall face 603	24/08/2012	TIP
790			Students visiting, last site tour	24/08/2012	TIP
791			Students visiting, last site tour	24/08/2012	TIP
792 - 797	6		Northern end of trench.	24/08/2012	TIP
798 - 805			Students visiting, last site tour	24/08/2012	TIP

806 - 895	1		Series of shots for Dave Cowley	24/08/2012	TIP
896 - 906			Students showing outer wall	24/08/2012	TIP
907 - 910			Ewan, swirling dervish	24/08/2012	TIP
912			Group shot *	24/08/2012	TIP
913	1	129, 130	Entrance to broch with post-hole	24/08/2012	TIP
914	8	821	Cranial elements crushed under rubble SF 6922	24/08/2012	RMN
915	8	821	Close-up above	24/08/2012	RMN
916	6	606	West facing section	24/08/2012	HFJ
917 - 920	6		West facing section	24/08/2012	HFJ
921	6		S facing section	24/08/2012	HFJ
922 - 928	6		East facing section	24/08/2012	HFJ
929	6		North facing section	24/08/2012	HFJ
930 - 936	1	16	Wall face showing the batter from above	24/08/2012	HFJ
937	1		Wall face showing the damaged stones	24/08/2012	HFJ
938 - 946	1		detail of damaged stones	24/08/2012	HFJ
947	1	133	Pit?	25/08/2012	JWI
948	1	133	Pit?	25/08/2012	JWI
949	1	133	Pit?	25/08/2012	JWI
950	1	133	Pit?	25/08/2012	JWI
951	1	133	Pit?	25/08/2012	JWI
952	1	133	Pit?	25/08/2012	JWI
953	1	133	Pit?	25/08/2012	JWI
954	1	133, 127, 130, 129	Beneath floor stones	25/08/2012	JWI
955	1	129, 130, 133, 127	Beneath floor stones	25/08/2012	JWI
956	1	127, 129, 130, 133	Beneath floor stones	25/08/2012	JWI
957	1	127, 129, 130, 133	Beneath floor stones and post-hole *	25/08/2012	JWI
958 - 959			Backfilling	25/08/2012	
961	8		Final recording	25/08/2012	
962	8		East facing section	25/08/2012	HJA
963 - 968	8	808, 809	South facing section, wall top	25/08/2012	HJA
969	8	808, 809	South facing section, wall top *	25/08/2012	HJA
970	8	809	South facing section, wall top	25/08/2012	HJA
971	8	809	East facing wall of broch	25/08/2012	HJA
972	8	809	East facing wall of broch	25/08/2012	HJA
973	8		West facing section	25/08/2012	HJA
974 - 982	8		North facing section	25/08/2012	HJA
983	8		East facing section	25/08/2012	HJA