

# GUARD ARCHAEOLOGY



**Redlees Quarry, Blantyre  
Data Structure Report  
Project 3491**

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## **Redlees Quarry, Blantyre**

### **Data Structure Report**

**On behalf of:** TGP Landscape Architects

**NGR:** NS 6818 5985

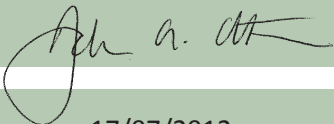
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*This document has been prepared in accordance  
with GUARD Archaeology Limited standard operating procedures.*

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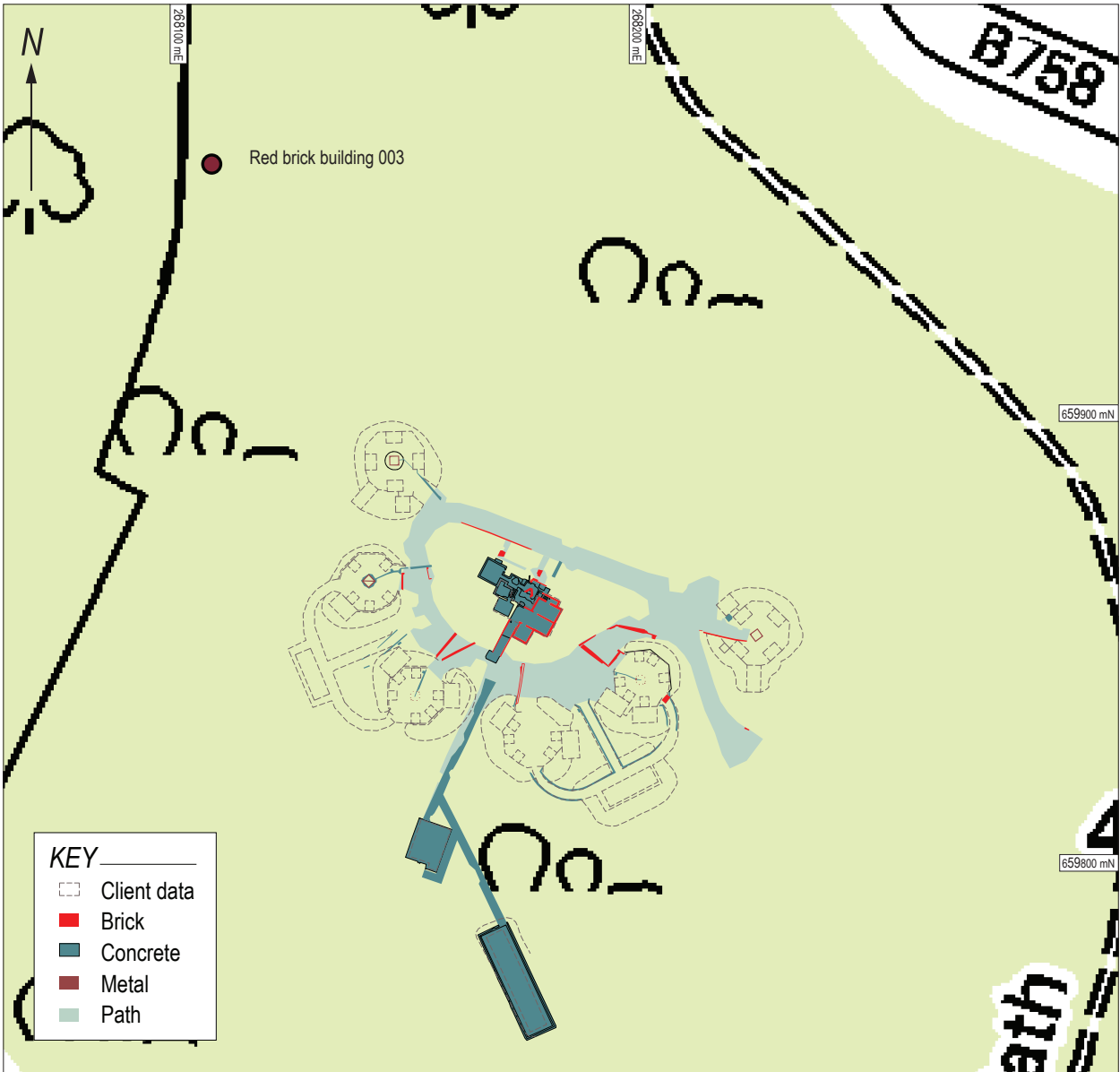
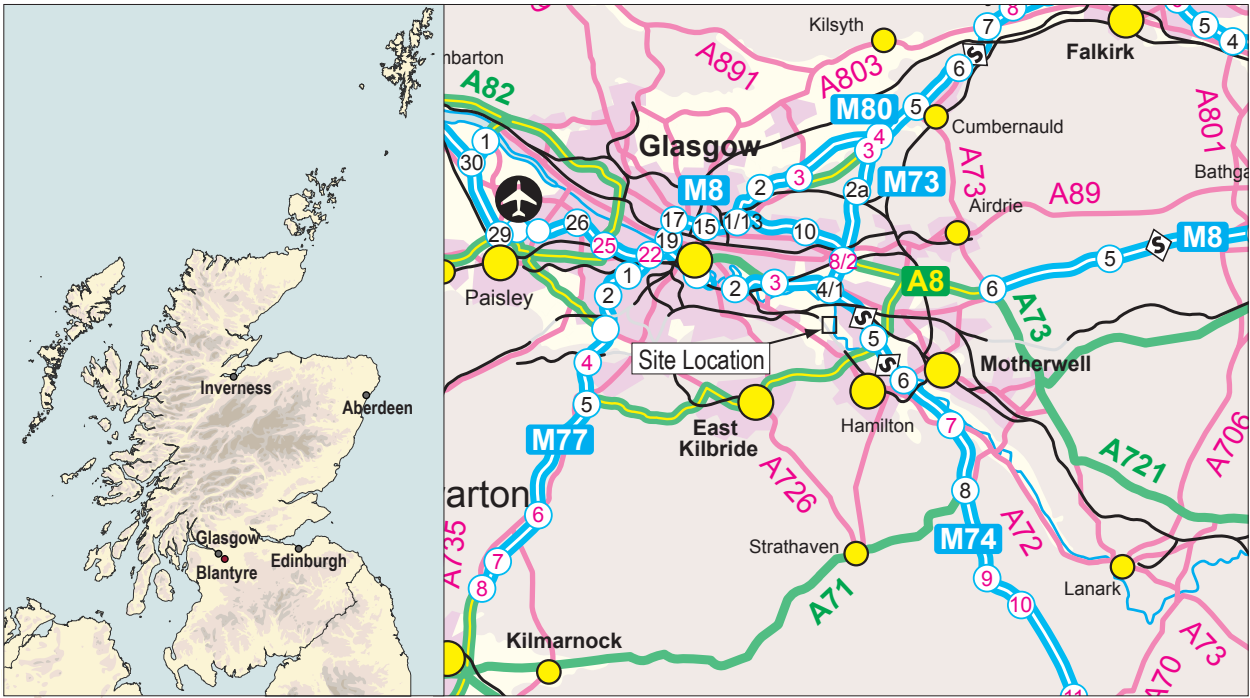
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KEY	
	Client data
	Brick
	Concrete
	Metal
	Path

Figure 1:  
Site location.



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## Executive Summary

- 1.1 GUARD Archaeology Limited were initially commissioned by TGP Landscape Architects on behalf of South Lanarkshire Council to undertake an archaeological watching brief to clear and survey the site of a WWII anti aircraft battery and ancillary buildings disturbed by vandalism. Phase 1 of this work was undertaken between 26 – 27<sup>th</sup> of March 2012 to document and detail these features before any further destruction or lasting damage took place. Phase 2 took place between the 16<sup>th</sup> April – 21<sup>st</sup> May 2012 during clearance works over the rest of the site and grading and shaping of the surrounding earth around the structures themselves.

## Introduction

- 2.1 This report sets out the results of an archaeological watching brief undertaken by GUARD Archaeology Ltd, on behalf of South Lanarkshire Council on a site proposed for the further development of a public park at the site of Redlees Quarry, Blantyre. During the first phase of the watching brief the interior of the batteries were cleared revealing the metal footings and fixtures for the anti aircraft guns. The second phase of works involved monitoring the removal of shrubs and trees from within the site and structures themselves, and the removal of earth banking and the shaping and grading of the immediate areas surrounding the structures.

## Site Location, Topography and Geology

- 3.1 The proposed development location lies to the North of Blantyre (NGR NS 6818 5985). The development area covers approximately 1.75 ha and sits between 40 m and 48 m AOD.
- 3.2 The site is situated immediately east of the main Glasgow to London railway line, and west of the Blantyre Farm Road (B758) in the parish of Blantyre (Hamilton). It currently consists of 5 standing gun emplacements, with associated structures and ancillary buildings (Figure 1).
- 3.3 The underlying drift geology consists of raised marine deposits, Devensian – Silt and clay while the solid geology consists of Scottish upper coal measures formation – sedimentary rock cycles, coal measure type (British Geological Survey 1:625,000, Sheet , Drift and Solid). The local environment was previously dominated by swamps, estuaries and deltas.

## Archaeological Background

- 4.1 A review of desk-based sources (PASTMAP, Canmore and WoSAS) undertaken in advance of the watching brief revealed a total of 23 known cultural heritage sites within a kilometre of the centre of the development area. Only one of these sites is located within the boundary of the development site and this is the known WW II anti-aircraft battery covered by this watching brief (Canmore ID 107521 NMR No. NS65NE 43, SMR/WoSAS PIN: 20055) (see appendix A for details). There are no sites of a similar period to the anti-aircraft battery site in the vicinity. Sites recorded within the kilometre search area included two scheduled monuments, three listed buildings, nine NMR sites and nine SMR sites.
- 4.2 The two scheduled monuments are Blantyre Priory (Index: 2251) and Bothwell Castle (Index: 90038), situated 600 m and 750 m south-east of the development respectively. The listed buildings are, Bothwell Castle (A-listed), a late thirteenth century castle; Blantyre Priory (B-listed), founded by Patrick, Earl of Dunbar and his wife in 1239, and Calderglen Country House (B-listed). Other records of cultural heritage include the finding of a polished stone-axe in the environs of Bothwell Castle (NS 65 NE. 29), as well as Roman Intaglio Glass (NS 66 SE.15) and a Roman coin hoard (NS 66 SE. 16) from the Uddingston area.
- 4.3 The site of the anti-aircraft battery was inspected by the Royal Commission on the Ancient and Historical Monuments of Scotland (RCAHMS) in 1997 (D. E.). At this time four gun-emplacement anti-aircraft batteries were noted to be situated immediately east of the main Glasgow-London

railway. The battery consisted of four emplacements, ammunition lockers, command post and the GL mat (gun laying radar hexagon) to the north-east. The accommodation camp was situated adjacent to the B758 public road. A later inspection in 2001 (Guy, J. RCAHMS) stated that there was a World War II heavy anti-aircraft battery situated to the north of the railway line and west of Blantyre Farm Road. This consisted of six gun-emplacements, a command post, magazines and a gun store all still extant. It is noted that a spoil heap was encroaching on the site and one or two other buildings were partly buried. The battery was also noted as being armed with four 4.5-inch guns.

- 4.4 An update to the notes on the battery in 2006 (M.M.D., E.L. RCAHMS) state that two gun emplacements were added later in the Second World War, though the documents in the National Archives (Public Record Office) do not record this. Documentation reviewed by the inspector show that the battery was equipped with 'four 4.5-inch guns in 1942-43, but by 1945 had been re-equipped with four 3.7-inch guns. In addition between 1942 and 1943 a GI (gun-laying) Mk II radar set was in operation'. The site is also noted on an RAF WW II oblique aerial photograph (F309, 3648, flown 6 June 1941), which shows that only four gun-emplacements had been built by this date.
- 4.5 The state of preservation of the battery and ancillary buildings immediately prior to investigation (March 2012) was unclear due to the level of overgrown vegetation in and around the built remains.

## Aims and Objectives

- 5.1 The general aim of the first phase of the watching brief was to clear the immediate area within the Batteries E5 and E6 – initially targeted by vandalism – record any fixtures and footings within the base of the structure itself. An attempt was also made to backfill within the structures after recording to dissuade further acts of vandalism. The original entrance gate to the site itself were also photographed and recorded, as these were to be removed prior to starting initial clearance works within the site. The anti tank defences to the south of the site were also photographed and recorded prior to any clearance works starting on site. A number of test pits were also dug against the walls of Batteries E5 and E6 in an effort to ascertain if the walls were abutting the mounds of earth surrounding them.
- 5.2 After this initial phase of recording, further work commenced with the clearing of shrub and vegetation throughout the site, removal of spoil heaps and the grading of the surrounding earth and soil. The walls of the surviving structures were exposed and blast walls had their earth mounds removed and graded into the surrounding area. The original paths and roads throughout the site were also exposed and recorded all ground-works were observed for the presence of previously unknown buried structures.

## Methodology (Figure 1)

- 6.1 All topsoil was stripped using a mechanical excavator, fitted with a flat-bladed ditching bucket, under close archaeological supervision. The topsoil was removed in spits to the surface of the subsoil or the first significant archaeological horizon. All on-site recording, written, drawn and photographic, was to the standards normally pertaining in archaeological fieldwork.
- 6.2 A full watching brief was conducted throughout all ground disturbances within the AA compound by an archaeologist assisted, where necessary, by further archaeologists under the overall guidance of an archaeological project manager.
- 6.3 All features were measured, drawn and photographed documenting them prior to any removal or disturbance during site works.



## Results

### 7.1 Phase 1

7.1.1 Two batteries were investigated during the initial phase of works – those deemed to be the most under threat of further vandalism - Batteries E5 and E6. The existing layer of topsoil that had accumulated in the interior was initially removed by hand, revealing the footings for the guns themselves.

#### Battery E5 (Metal fixings – Type 1)

7.1.2 Battery E5 appeared to be of the same type noted elsewhere in the site. Much of the concrete covering the base itself had already been removed by vandals in an attempt to retrieve the metal fixtures (Plate 1); Evidence of damage from a portable metal saw was noticeable on the metal base. Once completely uncovered a square base of 2.2 m in length was revealed. This appeared to be of cast iron construction with no noticeable joins or welds. A cross member lay underneath, diagonally running under the base in an east/west orientation (interestingly this was not seen on the later construction E6). The iron structure itself appeared to be made of L-shaped cast iron 0.2 m in width with by 0.1 m in depth. The iron appeared to have an overall thickness throughout of 10 mm – however only small sections had been completely uncovered during the vandalism. A number of circular mounting points were sited along the base at regular intervals – eight of these appeared to be of the same shape and size 0.18 m in diameter. At the east and west corners a small reinforced section lay on top of each corner containing what appeared to be a larger and more pronounced circular mounting point – again of 0.18 m in diameter. The iron footing itself was covered throughout by a layer of concrete 50 mm in thickness with only the circular mounting points protruding through. The only visible points on the surface would have been these ten circular mounts – however acts of vandalism had revealed the underlying framework itself. One of the eight circular mounting points had been dug showing it continued underground to an unobserved depth – this possibly saved the structure itself from more damage or even removal and theft. The interior of the battery was constructed of concrete which had been laid over and around the metal mounting points.

#### Battery E6 (Metal fixings – Type 2)

7.1.3 Battery E6 appeared to be of a different design from that seen elsewhere on the site. The interior fittings were once again of cast iron construction and included a square frame of 2.2 m in length and 0.2 m in width, with no evidence of a diagonal cross member. The topsoil removal revealed the metal structure sitting flush with the concrete base poured around it. The concrete base had not been damaged and again followed the same format as the footing seen in Battery E5 (Plate 2). The metal structure had eight circular mounting points 80 mm in diameter, although these ran flush with the footing itself and did not appear to protrude as in the case of battery E5. The base also had two more substantial circular mounts again in opposite corners atop a reinforced plate. These mounting points were 0.17 m in diameter and protruded 30 mm above the surface of the concrete. This base also appeared to have a slot running through the side of it, built into the concrete. This 0.24 m wide slot was of unknown depth but ran 1.1 m into the centre of the mount and 1.1 m out with.



Plate 1: Battery E5, detail of footings from south.



Plate 2: Battery E6, detail of emplacement after clearance.

## Anti Tank Defences

7.1.4 The anti tank defences, now relocated lay to the east side of the site, and appeared outside the perimeter fence. They consisted of two cylindrical concrete structures with crenulated sides. They measured 1.05 m in length and 1.05 m in diameter. They appeared to be in very good condition with a thick layer of moss coating the tops of them. They sat 9 m apart and appeared to be orientated on the same east to west orientation. The more westerly defence however appeared to be abutting the rubble foundations of a pre-existing building of unknown date.

## Site Entrance

7.1.5 The original entrance gates at the north end of the site, visible from the public footpath, had previously suffered from vandalism. They appear to have been double gates, however one of them has been removed and only the hinges remain with evidence of metal saw cuts apparent. The surviving gate was 1.8 m in width and 2 m in height and appears to have been topped by barbed wire (only some traces remained). They were hinged to large concrete gate posts 0.23 m by 0.23 m in width with a height of 1.9 m with smaller concrete posts abutting them for strength. The smaller intermediate posts holding the fence were only 0.13 m by 0.10 m in thickness, but again stood to 1.9 m high.

## Earth Banking Around Structures

7.1.6 A number of trial pits were dug through the mounds of earth banked up to the exterior walls of Battery E5 and E6. The test pit dug at E5 showed very thick highly compacted clay, with some thick rubble at the base. It was difficult for the machine to dig through and appeared to be flush with the wall itself. Interestingly once removed, the original olive green paint could be seen on the outside of the battery wall itself, possibly being preserved by the process of covering up the sides with the banked earth. The test pit dug at E6 again showed the same thick clay deposit, banked up flush with the wall itself. This wall did not show any evidence of paint on the exterior.

## 7.2 Phase 2

7.2.1 The second phase of work started with the removal of vegetation and foliage throughout the interior of the full site (Plate 3). Many of the trees (Hawthorns) appeared to be relatively substantial in size, possibly having been left to grow over a long number of years when the site became derelict. The trees themselves were removed by mechanical excavator, or by hand if deemed too close to the structures themselves. The removal of these root systems – although shallow, did break through the topsoil touching the subsoil and existing layers of archaeology in some places. Disturbance to the tracks and paths, which were constructed of compacted tar/bitumen and in some cases poured concrete, was limited.

## Roads and tracks

7.2.2 Initially during the clearing of overburden and spoil – a number of the original tracks or roads throughout the site were uncovered. The rough location of these could be discerned from original aerial photographs from 1941. The larger of which (and possibly later) ran in an east to west direction across the north end of the site, this appeared to have been 4.5 metres in width, made up of a compacted layer of rough brick and sandstone rubble set into the natural surrounding clay. This was then topped by compacted small rough angular black stone chippings then topped by a thin layer of tar. This appeared to run from the location of Battery E1 and Battery E6 – both later additions to the site. Consequently this larger road appeared to be in a better preserved condition than that seen elsewhere throughout the site. The road itself had a rudimentary kerb in situ along both its flanks, comprising of rough red bricks. It is unknown if any drainage features were also apparent as none of the brickwork was removed, and the tracks were preserved in situ.

7.2.3 The roads between all the remaining batteries appeared to be of the same makeup as seen above - however they do not survive in the same condition as the larger road running east-west through the north end of the site. Batteries 2 – 5 had a larger wider road or quadrant area out



with them, which also led to the command bunker – possibly allowing easy access or working areas between the original structures on site. A concrete track led from the command bunker between the original two battery emplacements in a rough north/south orientation down to the Gun Store/Workshop building and long magazine. This appeared to be a thick concrete, poured directly onto the ground surface to create a direct route from the buildings at the lower end of the site to the Batteries. The concrete survived relatively well in some areas, but appeared to have started to crack and break in others – possibly due to the presence of heavy plant during the original dumping of spoil on the site after its disuse. It is unknown why these paths are concrete rather than the tarmac seen elsewhere throughout the site.

## Battery E1

7.2.4 The original location of Battery E1 was previously unknown; it was suggested to have been located in the north-east of the site – near to the original entrance. On the removal of rubble overburden – the base of the structure was found intact (Plate 4). Only the metal base and footings of the gun were still in situ within their concrete base. The surrounding walls of the structure however had not survived. The extent of the base of the structure was cleaned back and recorded and reburied in situ to avoid any theft of the metal fixtures. It was noted that the layout and footings of this structure matched that seen in Battery E6 (*Type 2*) – the latter type addition to the site. The metal appeared to be in very good condition, with many of the mounting points showing signs of the original grease in situ – this suggests that the structure itself was demolished and buried relatively quickly with little evidence of it being left open to the elements. There was no sign of any of the large reinforced sections of walls in the rubble overburden suggesting that they could have possibly been removed from the area. This battery stood alone from the rest of the batteries, being a later addition to the site – and had no direct association with any magazine building.



Plate 3: General shot of site clearance from west.



Plate 4: Battery E1, detail of base.

## Battery E2

7.2.5 Battery E2 was located to the south-west of Battery E1. This was one of two emplacements joined to a larger magazine area. The overall condition of the outer walls of the structure was very good. On the initial removal of the earth banking surrounding the walls, it was noted that olive green paint survived on the walls exterior behind the earth banking. This suggests that the battery existed without the earth banking for an unknown period of time – before these were added as a later addition. The earth banking rose to a height of 1.3 m and in some cases extended 2.2 m out from the wall, gently sloping upwards. In section it was noted that the bank was constructed with compacted sandstone rubble fragments with clay and topped with soil. At the base of the wall, a ceramic drain ran round the perimeter of each structure. This battery was of a different type to that seen at Battery E1. This twinned with Battery E3 and connected to a larger magazine building by small curved concrete path or run. The metal fixings were found to be present (Plate 5) and, subsequently exposed before re-burial in this emplacement. They were of a different type to that seen in Battery E1

### Battery E3

7.2.6 Battery E3 was located to the south-west of Battery E2. This was the second of a pair of emplacements joined to the larger magazine area – again of type 1. This battery paired with Battery E2 was in a fairly poor state of preservation. It seems as though portions of wall on the north and south sides of this features had been removed – widening the original entry point into the structure – and also creating another entry point directly opposite. This suggests the location of a possible haul road running through the centre of this structure – post dating the emplacement itself, and more than likely to be related to the nearby quarry and dumping of spoil.

7.2.7 The build and make-up of the emplacement itself was the same as Battery E2, the earlier type. It is unknown if the metal fixings for the gun itself remained in situ – as the emplacement itself had been filled with overburden spoil. The decision was taken by South Lanarkshire Council to level and shape this rather than removing it completely. This preserved what was underneath in situ, but revealed part of the concrete path or run connecting the battery to the magazine. The large sections of the wall that had been previously removed were found discarded closeby magazine 1. Evidence was revealed on the outer wall facings of olive green paint when the earth was removed.

### Battery E4

7.2.8 Battery E4 was located to the west of Battery E3. This was the first of a separate pair of emplacements linked to a larger magazine by curved concrete tacks or runs. The condition of this emplacement was fair, although some destruction had occurred by the encroaching spoil heap that covered magazine 2. The south west section was partially covered and it is not known if the concrete run connecting the battery with the magazine survives. The metal fixings survived well within the feature and where of the same earlier type seen in Batteries E2 and E3. Again olive paint was noted on the exterior of the walls when the earth banking was removed.

### Battery E5

7.2.9 Battery E5 was located to the north-west of Battery E4, this was the second of the pair linked to the larger magazine area. The state of preservation of the outer walls of this emplacement was also relatively poor. The encroaching spoil heap covering the magazine and covered and destroyed much of its adjacent walls. Again it is unknown if the concrete path or run connecting the feature with the battery survived, due to the presence of the large spoil heap. The metal fixings were located in situ and it was noted that these reflected the earlier type seen elsewhere in the battery. The olive paint was again noted on the outer walls during the removal of the earth from around the structure.

### Battery E6

7.2.10 Battery E6 was located at the eastern end of the site. The encroaching spoil heap had not reached this battery and thus it was relatively well preserved. This is probably what Battery E1 may have looked like, if it had not been demolished. As a later addition to the site, Battery E6 was not part of a paired emplacement nor was there an adjoining magazine associated with it. It was also built of breeze block construction and had a different base plate when contrasted with Batteries E2 to E5, however its was similar to the base plate witnessed in E1.

### Ancillary Buildings

7.2.11 Many of the ancillary buildings associated with the site were also cleared of shrub and vegetation. The largest building – the gun store/workshop was in a relatively poor state of repair. It was located in the south-west corner of the site and built of reinforced concrete. The roof had partially collapsed and thus some remaining sections had to be removed to make the structure safe. In contrast, the larger magazine at the south end of the site remained in relatively good condition. Once all the trees and shrubs had been removed from the structure it became apparent that damage was limited to only a small section of the front of one of the bays. A concrete ramp led down into the structure from the gun store/workshop and drainage channels where noted set

into the concrete around the structure itself. The concrete path continued northwards from the gun store/workshop itself towards the central area between all the emplacements.

- 7.2.12 The area in the centre of the site contained a large amount of rubble and spoil. This had always been the suggested location for the command centre. On removing much of this overburden, the overall layout of the original structure was revealed. Much of the structure had been demolished previous – with only the foundations of the wall and concrete bases showing the original footprint. It seemed to comprise a central concrete track or ramp running down into the structure itself. Corrugated iron fragments were present – possibly suggesting a curved roof structure above this path covered by earth. A room was apparent to the west at the bottom of the ramp, sitting slightly above another room to the east. This had dark burning or staining on the concrete base possibly suggesting a generator room or presence of machinery of some type. This had a drainage channel running around its perimeter. Only a small course of the outer wall survived of the structure. The rooms to the east were set at a lower level and appeared to be of brick construction with only the foundations remaining. Two sets of concrete stairs were located at the rear of the structure leading to a series of concrete pits at a higher level. These are likely to be the height finder/rangefinder pits. These appeared to survive in relatively good condition compared to the rest of the structure. The function of each room of the command centre is currently unknown and further research would be required to identify contemporary examples for this form of command centre, which seems unusual in its layout.
- 7.2.13 Many of the smaller ancillary buildings associated with the batteries themselves appeared to be in a relatively good state of preservation. The brick structures at Batteries E4 and E2 survived very well with roofs intact. A small pedestal was noted in the centre of each of these rooms directly underneath a circular hole in the roof – possibly indicating the presence of a stove or burner of some type. Evidence of possible interior benches was also noted along the rear walls. The Anderson shelters or huts associated with the batteries, however survived in a much poorer state of repair. The decision was taken not to excavate these – but to backfill the interior as they were set at a lower level than that of the surrounding land surface. The ending gable structures were later taken down due to health and safety reasons.
- 7.2.14 An additional ancillary building was partially recorded to the north-west of the main battery complex on 21<sup>st</sup> May. This red-brick building survived as the lower two to three courses of brick at NGR NS 68105 59955 (Plate 6). All of the bricks used in this building were marked with 'GAROWHILL', a local early twentieth century brickworks, which ceased to operate in the 1950s, about a decade after this building was built. The rectangular building measured 4.75 m by 6.6 m and showed evidence of one doorway and two possible windows on the west elevation. The doorway was marked with an instep measuring 1.65 m wide, possibly a double door, with numerous shards of square-mesh wire-reinforced glass and metal fixings scattered along the west edge of the building at this point. Two more isolated scatters of the same type of reinforced glass were found 1.5 m apart along the western wall, perhaps representing former window positions. A concrete feature built against the north wall of the building measured 1.1 m by 3 m with red-brick detail at the north edge. The route of the public pathway skirted the edge of this building and so only limited investigations were carried out. The remnants of this building will remain *in situ*.



Plate 5: Battery E2, gunmount fixings from north.



Plate 6: Uncovering of red-brick building to northwest of main battery, from south.



## Discussion

- 8.1 The watching brief identified the extent of the metal footings for the guns themselves at Battery E5 and battery E6. It showed that they are substantial in size and appear to be relatively complete. The differences in construction are noticeable between the earlier E5 battery and the later more refined construction at E6. Interestingly the size of the base footings appears to be the same for both these bases and the number and positions of the mounting points are also similar. The exterior of battery E5 appears to retain the original coating of green paint on the outer walls, now hidden by the soil which has been mounded around them. This may suggest that the mound was a later addition. The differences in construction between E5 and E6 are very noticeable with the later being of breeze block construction rather than the local "Hamilton" red brick construction seen on E5. The addition on the concrete slot through the base may suggest refinements in design for the gun mounts themselves.
- 8.2 The gateway to the site is in a poor state of repair. One gate has already been removed probably for its scrap metal value and the second gate was removed by the contractor after it had been recorded in situ. The anti-tank measures are in a very good state of preservation, set out with the immediate site. The extent of the survival of each battery was noted and the presence of the remaining metal footings. The decision was taken to backfill the centre of each emplacement in an attempt to protect the metal fixings from theft or vandalism.
- 8.3 The earth mounds surrounding all of the structures were removed to reduce potential health and safety risks. The removal of this spoil material revealed the presence of paint on the exterior of the emplacements possibly indicating they had at some point existed without earth banking.
- 8.4 The ancillary buildings, or their remains, are now apparent when following the new paths across the site due to the clearing of overgrown vegetation. The buildings are already in a ruinous state and there are no obvious metal fixings or other items of any monetary value that may put them at risk of future vandalism.

## Conclusions and Recommendations

- 9.1 The site will now have open access via designated pathways and the internal areas of the built remains of the battery and ancillary buildings were backfilled to negate further heritage crime in the form of metal theft and vandalism. The regular inspection and maintenance of the newly installed public paths will ensure that evidence of further vandalism will be become apparent at an early stage and be addressed accordingly.
- 9.2 Although little in the way of significant artefactual evidence was revealed by the watching brief, it did provide the opportunity to record the remains of a World War II Anti-Aircraft Battery in some detail. This detailed recording highlighted the broad construction history of this particular site and revealed the form of command centre evident here is unusual in construction terms. Further research on the site is being conducted by the local community through the Community Links Blantyre. This will enhance the interpretation of this site and how it can be presented to the public for their enjoyment and appreciation whilst visiting the new park.

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**Section 2: Appendices**



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## Appendices

### Appendix A: Cultural Heritage sites within the development area

#### World War II Battery site

Alternative Names Gsg1; S1; Clyde Aa Defences; Blantyreferme  
 Site type ANTI AIRCRAFT BATTERY (20TH CENTURY)  
 Canmore ID 107521  
 Site Number NS65NE 43  
 NGR NS 6818 5985  
 Council SOUTH LANARKSHIRE  
 Parish BLANTYRE (HAMILTON)

#### Archaeological Notes

NS65NE 43 6818 5985

This four gun-emplacement battery is situated immediately E of the main Glasgow-London railway. Consisting of four emplacements, ammunition lockers, command post and the GL mat (gun laying radar hexagon) to the NE. The accommodation camp was situated adjacent to the B758 public road. Information from RCAHMS (DE) July 1997

This World War II heavy anti-aircraft battery is situated to the N of the railway line and W of Blantyre Farm Road. Consisting of six gun-emplacements, command post, magazines and a gun store all still extant, a spoil heap is now encroaching on the site and one or two other buildings are partly buried. The battery was armed with four 4.5-inch guns.  
 J Guy 2001; NMRS MS 810/11, Part 3, 229-230; Vol.2 (appendix), 23

Two gun emplacements were added later in the Second World War, though the documents in the National Archives (Public Record Office) do not record this. Designated S1 or GSG1 as part of the Clyde Defences, the documents show that it was equipped with four 4.5-inch guns in 1942-43, but by 1945 had been re-equipped with four 3.7-inch guns. In addition between 1942 and 1943 a GI (gun-laying) Mk II radar set was in operation.

The battery is visible on an RAF WW II oblique aerial photograph (F309, 3648, flown 6 June 1941), which shows that at this date only four gun-emplacements had been built.

A recent site visit in September 2006 noted that the heavy anti-aircraft battery was still as Mr Guy had noted in 2001.

Visited by RCAHMS (MMD, EL), 5 September 2006

Redfern, N I (1998) Twentieth century fortifications in the United Kingdom, 5 V. V.1 Introduction and sources; V.2 Site gazetteers: Wales; V.3 Site gazetteers: Northern Ireland; V.4 & 5 Site gazetteers: Scotland York

Page(s): 10 Held at RCAHMS F.6.9.CBA

SMR Notes: WoSASPIN 20055

NS65NE 43 6818 5985

This World War II heavy anti-aircraft battery is situated to the N of the railway line and W of Blantyre Farm Road. Consisting of six gun-emplacements, command post, magazines and a gun store all still extant, a spoil heap is now encroaching on the site and one or two other buildings are partly buried. The battery was armed with four 4.5-inch guns.

J Guy 2001; NMRS MS 810/11, Part 3, 229-230; Vol.2 (appendix), 23

Entered WoSAS (SJ) 12/03/2003

## Appendix B: Digital Photo Log

### Film 1

Frame	Area	Subject	Taken From
1	Gates	Gen shot of surviving Gate	N
2	Gates	Gen shot of surviving Gate	N
3	Gates	Gen shot of surviving Gate	N
4	Gates	Gen shot of surviving Gate	N
5	Gates	Gen shot of surviving Gate	N
6	Gates	Gen shot of surviving Gate	S
7	Gates	Detail of lock mechanism	S
8	Gates	Detail shot of Gate	SE
9	Gates	Detail shot of Gate	SE
10	Gates	Detail shot of Gate	SE
11	Gates	Detail shot of top hinge	NW
12	Gates	Detail shot of destroyed Gate	S
13	Gates	Detail shot of destroyed Gate	S
14	Gates	Detail of hinge (top)	S
15	Gates	Detail of hinge (bottom)	S
16	Gates	General shot of Gates	N
17	Gates	General shot of Gates	N
18	Gates	Detail of barbed wire fittings	N
19	Gates	Detail of Gate posts	W
20	Gates	Detail of Gate posts	W
21	Anti Tank	Westerly anti tank defence	N
22	Anti Tank	Westerly anti tank defence	NE
23	Anti Tank	Westerly anti tank defence	E
24	Anti Tank	Westerly anti tank defence	E
25	Anti Tank	Easterly anti tank defence	SE
26	Anti Tank	Easterly anti tank defence	E
27	Anti Tank	Both anti tank defences in shot	E
28	Anti Tank	Both anti tank defences in shot	E
29	Battery E5	Detail of metal footings for gun	E
30	Battery E5	Detail of metal footings for gun	E
31	Battery E5	Detail of metal footings for gun	N
32	Battery E5	Detail of metal footings for gun	N
33	Battery E5	Detail of metal footings for gun	W
34	Battery E5	Detail of metal footings for gun	W
35	Battery E5	Detail of metal footings for gun	S
36	Battery E5	Detail of metal footings for gun	S
37	Battery E5	Detail of metal footings for gun	W
38	Battery E5	Detail of corner mounting points	SW
39	Battery E5	Detail of corner mounting points	SW
40	Battery E5	Detail of metal footings for gun	SW
41	Battery E5	Detail of metal footings for gun	SW
42	Battery E5	Detail of metal footings for gun	W
43	Battery E5	Detail of metal footings for gun	W
44	Battery E5	Detail of corner mounting points	N
45	Battery E5	Detail of corner mounting points	N
46	Battery E5	Detail of corner mounting points	S
47	Battery E5	Detail of corner mounting points	SW
48	Battery E6	Detail of metal footings for gun	N
49	Battery E6	Detail of metal footings for gun	E
50	Battery E6	Detail of metal footings for gun	SW
51	Battery E6	Detail of concrete slot	E
52	Battery E6	Detail of corner mounting points	SE

Frame	Area	Subject	Taken From
53	Battery E6	Detail of corner mounting points	SE
54	Battery E6	General shot of metal footings	N
55	Gates	Detail of Gate posts	S
56	Battery E6	General shot of footings	N
57	Battery E6	General shot of footings	S
58	Battery E5	General shot of footings	E
59	Battery E6	General shots during backfilling	E
60	Battery E6	General shots during backfilling	E
61	Battery E5	General shots of metal footings	N
62	Battery E5	General shots of metal footings	N
63	Battery E5	General shots of metal footings	W
64	Battery E5	General shots of metal footings	E
65	Battery E6	General shots of E6 backfilled to prevent vandalism	Gen
66	Battery E6	General shots of E6 backfilled to prevent vandalism	Gen
67	Battery E5	Test Pit dug against outer wall showing original green paint	S
68	Battery E6	Test Pit dug against outer wall	N
69	Battery E6	Test Pit dug against outer wall	N
70	Battery E6	Test Pit dug against outer wall	N
71	Battery E5	General shots of E5 Backfilled	Gen
72	Battery E5	General shots of E5 Backfilled	Gen

## Film 2

Frame	Area	Subject	Taken From
1	Access Track	General shot of access track	N
2	Access Track	General shot of access track	N
3	Access Track	General shot of access track	S
4	Access Track	General shot of access track	S
5	Access Track	General shot of access track	N
6	Access Track	General shot of access track	N
7	Access Track	General shot of compacted rubble fill	W
8	Access Track	Possible cable track/drainage	W
9	Access Track	Possible cable track/drainage	W
10	Access Track	Possible cable track/drainage	N
11	Access Track	Possible cable track/drainage	NW
12	Access Track	Cable track/drain from Magazine 1	SW
13	Access Track	Cable track/drain from Magazine 1	SW
14	Access Track	General shot of stripping turning point	N
15	Access Track	General shot of stripping turning point	S
16	Access Track	General shot of stripping turning point	NW
17	Access Track	General shot of stripping turning point	SE
18	Magazine 1	Detail of metal cable	N
19	Magazine 1	Detail of metal cable	N
20	Gen Tree Removal	General shots of tree removal	N
21	Gen Tree Removal	General shots of tree removal	S
22	Gen Tree Removal	General shots of tree removal	E
23	Gen Tree Removal	Detail showing tree proximity to walls	NW
24	Gen Tree Removal	General shots of E6 with trees removed	W
25	Gen Tree Removal	General shots of E6 with trees removed	W
26	Gen Tree Removal	General shots of E6 with trees removed	W
27	Gen Tree Removal	General shots of site cleared	W
28	Gen Tree Removal	General shots of site cleared	W
29	Gen Tree Removal	General shots of site cleared	SW
30	Gen Tree Removal	General shots of site cleared	W
31	Gen Tree Removal	General shots of site cleared	W

Frame	Area	Subject	Taken From
32	Gen Tree Removal	General shots of site cleared	W
33	Gen Tree Removal	General shots of site cleared	W
34	Gen Tree Removal	General shots of site cleared	W
35	Gen Tree Removal	General shots of site cleared	W
36	General	General shots of track stripped	E
37	General	General shots of track stripped	E

Film 3

Frame	Area	Subject	Taken From
1	Battery E1	Metal Base in Situ	NE
2	Battery E1	Metal Base in Situ	NE
3	Battery E1	General location shots	E
4	Battery E1	General location shots	E
5	Battery E1	Detail of base	W
6	Battery E1	Detail of base	NE
7	Battery E1	Detail of base	E
8	Battery E1	Detail of base	W
9	Battery E1	Detail of base	NE
10	Battery E1	Detail of interior building remains	W
11	Battery E1	Unknown base/man hole cover	W
12	Battery E2	Detail of possible cable track/pit	NE
13	Battery E2	Detail of possible cable track/pit	W
14	Battery E2	General shots of surrounding features	W
15	Battery E2	General shots of surrounding features	W
16	Battery E2	Detail of ceramic drain/paint on exterior walls	E
17	Battery E2	Detail of ceramic drain/paint on exterior walls	E
18	Battery E2	Detail section of earth mound	E
19	Battery E2	Detail section of earth mound	E
20	General	Detail of brick type	Gen
21	Magazine 1	Detail of earth banking removed	S
22	Magazine 1	Detail of earth banking removed/ceramic drain in situ	E
23	Magazine 1	General Clearing shots	W
24	Battery E2	General clearing shots	W
25	Magazine 1	Entrance ramp to magazine 1 cleared	W
26	Magazine 1	Entrance ramp to magazine 1 cleared	W
27	Magazine 1	Entrance ramp to magazine 1 cleared	W

Film 4

Frame	Area	Subject	Taken From
1	Battery E2	Detail of later additions	E
2	Battery E2	Detail of later additions	E
3	Battery E2	Detail of later additions	SE
4	Magazine 1	During clearance works	S
5	Magazine 1	During clearance works	S
6	Battery E2	Elevated shot with earth partially removed	W
7	Battery E2	Elevated shot with earth partially removed	W
8	Magazine 1	Detail of earth removed from around walls	NE
9	Magazine 1	Detail of earth removed from around walls	N
10	Magazine 1	Detail of concrete (poorly poured)	E
11	Magazine 1	Detail of entrance - North side	N
12	Magazine 1	Detail of entrance - South side	S
13	Magazine 1	Detail of path uncovered - South end	E
14	Magazine 1	Detail of path uncovered - South end	E
15	Magazine 1	Detail of internal drainage channels	S

Frame	Area	Subject	Taken From
16	Magazine 1	Detail of internal Drainage channels (Blast walls)	W
17	Magazine 1	Detail of internal Drainage channels (Blast walls)	S
18	Magazine 1	Detail of internal drainage	N
19	Battery E2	Entrance to battery	E
20	Battery E2	Entrance to battery	S
21	Battery E2	Entrance to battery	W
22	Battery E2	Interior south end	N
23	Battery E2	Interior north end	S
24	Battery E2	Interior west end	E
25	Battery E2	Gun mounts/fixings	N
26	Battery E2	Gun mounts/fixings	E
27	Battery E2	Cable track/drain (interior)	E
28	Battery E2	Cable track/drain (exterior)	E
29	Battery E2	Detail of exterior (earth removed)	W
30	Battery E2	Detail of exterior (earth removed)	W
31	Battery E2	Cable track from E2 to Command Bunker	E
32	Battery E3	Ancillary Building	Gen
33	Battery E3	Ancillary Building	Gen
34	Battery E3	Ancillary Building	Gen
35	Battery E3	Ancillary Building	Gen
36	Battery E3	Ancillary Building	Gen
37	Battery E3	Ancillary Building	Gen
38	Battery E3	Ancillary Building	E
39	Battery E3	Ancillary Building	E
40	Battery E3	Ancillary Building	E
41	Command Bunker	Shots of remains during excavation	S
42	Command Bunker	Shots of remains during excavation	S
43	Command Bunker	Shots of remains during excavation	S
44	Command Bunker	Shots of remains during excavation	S
45	Command Bunker	General shots of East side fully excavated	SW

### Film 5

Frame	Area	Subject	Taken From
1	Command Bunker	General shots of East side fully excavated	SW
2	Command Bunker	General shots of East side fully excavated	SW
3	Command Bunker	General shots of East side fully excavated	SW
4	Command Bunker	General shots of East side fully excavated	SW
5	Command Bunker	General shots of East side fully excavated	SW
6	Command Bunker	General shots of East side fully excavated	SW
7	Command Bunker	General shots of East side fully excavated	SW
8	Command Bunker	General shots of Stairway 2	S
9	Command Bunker	General shots of Stairway 2	S
10	Command Bunker	General shots of Stairway 2	SE
11	Command Bunker	General shots of Stairway 2	SE
12	Command Bunker	Detail of Stairway 2	E
13	Command Bunker	Detail of Stairway 2	E
14	Command Bunker	Detail of Stairway 2	W
15	Command Bunker	Detail of heightfinders pit	W
16	Command Bunker	Detail of heightfinders pit	W
17	Command Bunker	Detail of heightfinders pit	W
18	Command Bunker	Detail of concrete pedestool remains	E
19	Command Bunker	Detail of concrete pedestool remains	E
20	Command Bunker	Detail of concrete pedestool remains	E
21	Command Bunker	Detail of concrete pedestool remains	E



Frame	Area	Subject	Taken From
22	Command Bunker	Detail of concrete pedestal remains	E
23	Command Bunker	Detail of concrete pedestal remains	E
24	Command Bunker	General shots of pits	E
25	Command Bunker	General shots of pits	SE
26	Command Bunker	General shots of pits	W
27	Command Bunker	General shots of pits	W
28	Command Bunker	General shots of stairway 1	S
29	Command Bunker	General shots of stairway 1	SE
30	Command Bunker	General shots of stairway 1	SE
31	Command Bunker	General shots of stairway 1	SE
32	Command Bunker	General shots of stairway 1	SE
33	Command Bunker	Detail of waterproofing between walls	W
34	Command Bunker	General shots of excavation	Gen
35	Command Bunker	General shots of excavation	Gen
36	Command Bunker	General shots of excavation	Gen
37	Command Bunker	General shots of excavation	Gen
38	Command Bunker	General shots of excavation	Gen
39	Command Bunker	General shots of excavation	Gen
40	Magazine 1	Shots of banking removed from remaining side	N
41	Magazine 1	Shots of banking removed from remaining side	N
42	Battery E3	Ancillary building cleared	Gen
43	Battery E3	Ancillary building cleared	Gen
44	Battery E3	Ancillary building cleared	Gen
45	Command Bunker	Detail of thicker outer wall	W
46	Battery E3	Ancillary building exterior	Gen
47	Battery E3	Ancillary building exterior	Gen
48	Battery E3	Ventilation of building	S
49	Battery E3	Entrance to building	N
50	Battery E3	General shot of interior	N
51	Battery E4	Ancillary building exterior	Gen
52	Battery E4	Ancillary building exterior	Gen
53	Battery E4	Ancillary building exterior	Gen
54	Battery E4	Ancillary building exterior	Gen
55	Battery E4	Detail of ventilation	Gen
56	Battery E4	Detail of green paint behind earth mound	Gen
57	Command Bunker	Original entry to heightfinders pit	N
58	Command Bunker	Original entry to heightfinders pit	N
59	Command Bunker	Original entry to heightfinders pit	N
60	Command Bunker	Detail of original path (tarmac) with brick cobbles below	Gen
61	Command Bunker	Detail of original path (tarmac) with brick cobbles below	Gen
62	Command Bunker	Detail of original path (tarmac) with brick cobbles below	Gen
63	Command Bunker	Possible original footpath between pits	Gen
64	Command Bunker	Possible original footpath between pits - Cobbles below	Gen
65	Command Bunker	Possible original footpath between pits - Cobbles below	Gen
66	Command Bunker	Possible concrete cable track for radar mast	Gen
67	Command Bunker	Possible concrete cable track for radar mast	Gen
68	Command Bunker	Possible concrete cable track for radar mast	Gen
69	Command Bunker	Possible concrete cable track for radar mast	Gen
70	Command Bunker	Detail of original cut for building	N
71	Command Bunker	Detail of cable duct leading to command centre	N
72	Battery E6	Concrete placed over metal footings for protection	E
73	Battery E6	Concrete placed over metal footings for protection	E
74	Battery E6	Detail of emplacement cleared	Gen
75	Battery E6	Detail of emplacement cleared	Gen
76	Battery E6	Detail of emplacement cleared	Gen

Frame	Area	Subject	Taken From
77	Battery E6	Detail of emplacement cleared	Gen
78	Battery E6	Detail of emplacement cleared	Gen
79	Battery E6	Detail of ancillary building backfilled	Gen
80	Battery E6	Detail of ancillary building backfilled	Gen
81	Battery E6	Detail of ancillary building backfilled	Gen
82	Battery E6	Detail of ancillary building backfilled	Gen
83	Battery E6	Exterior of emplacement	Gen
84	Battery E6	Exterior of emplacement	Gen
85	Battery E5	Exterior/interior shots	Gen
86	Battery E5	Exterior/interior shots	Gen
87	Battery E5	Exterior/interior shots	Gen
88	Battery E5	Exterior/interior shots	Gen
89	Battery E5	Exterior/interior shots	Gen
90	Battery E5	Exterior/interior shots	Gen
91	Long Battery	Exterior shots	W
92	Long Battery	Exterior shots	W
93	Long Battery	Exterior shots	W
94	Long Battery	Exterior shots	E
95	Long Battery	Exterior shots	NE
96	Long Battery	Exterior shots	E
97	Long Battery	Exterior shots	SW
98	Gun store/Workshop	Exterior shots	SE
99	Gun store/Workshop	Exterior shots	SE
100	Gun store/Workshop	Exterior shots	W
101	Gun store/Workshop	Exterior shots	N
102	Gun store/Workshop	Exterior shots	N
103	Gun store/Workshop	Exterior shots	NW
104	Battery E3	Exterior shots	NW
105	Battery E3	Exterior shots	NW
106	Battery E3	Exterior shots	NW
107	Battery E3	Exterior shots	NW
108	Battery E3	Exterior shots	NW
109	Battery E3	Exterior shots	NW
110	Battery E4	Exterior shots	N
111	Battery E4	Exterior shots	N
112	Battery E4	Exterior shots	N
113	Battery E4	Exterior shots	N
114	Magazine 2	Exterior shots	NE
115	Magazine 2	Exterior shots	NE
116	Magazine 2	Exterior shots	NE
117	Magazine 2	Exterior shots	NE
118	Battery E5	Exterior shots	E
119	Battery E5	Exterior shots	E
120	Battery E5	Exterior shots	E
121	Battery E5	Elevated shots completed	SW
122	Battery E5	Elevated shots completed	SW
123	Battery E5	Elevated shots completed	SW
124	Battery E5	Elevated shots completed	SW
125	Battery E6	Elevated shots completed	SW
126	Battery E6	Elevated shots completed	SW
127	Battery E6	Elevated shots completed	SW
128	Magazine 2	Elevated shots completed	NW
129	Magazine 2	Elevated shots completed	NW
130	Magazine 2	Elevated shots completed	NW
131	Battery E4	Elevated shots completed	W

Frame	Area	Subject	Taken From
132	Battery E4	Elevated shots completed	W
133	Battery E4	Elevated shots completed	W
134	Battery E4	Elevated shots completed	W
135	Command Bunker	Elevated shots completed	W
136	Command Bunker	Elevated shots completed	W
137	Battery E2	Elevated shots completed	W
138	Battery E2	Elevated shots completed	W
139	Battery E2	Elevated shots completed	W
140	Battery E3	Elevated shots completed	W
141	Battery E3	Elevated shots completed	W
142	Long Battery/Gun store	Elevated shots completed	W
143	Long Battery/Gun store	Elevated shots completed	W
144	Long Battery/Gun store	Elevated shots completed	W
145	Gen	General shots	W
146	Gen	General shots	W
147	Battery E4	Completed shots	N
148	Battery E4	Completed shots	N
149	Battery E5	Completed shots	E
150	Battery E5	Completed shots	E
151	Battery E6	Completed shots	E
152	Battery E6	Completed shots	E
153	Battery E2	Completed shots	W
154	Battery E2	Completed shots	W
155	Command Bunker	Completed shots	S
156	Magazine 1	Completed shots	E
157	Magazine 1	Completed shots	E
158	Command Bunker	Completed shots	S
159	Command Bunker	Completed shots	S
160	Command Bunker	Completed shots	S
161	Command Bunker	Completed shots	S

**Film 6**

Frame	Area	Subject	Taken From
1	-	ID shot	-
2	Building (003)	Red-brick building along path route	S
3	Building (003)	red-brick building, doorway	S
4	Building (003)	red-brick building, doorway	W
5	Building (003)	corner of red-brick building	S
6	Building (003)	corner of red-brick building	S
7	Building (003)	red-brick building, wall extending north	S
8	Building (003)	working shot on timer	S
9	Building (003)	path with red-brick building on right	S
10	Building (003)	red-brick building, along west facing wall	N
11	Building (003)	red-brick building, along west facing wall	NW
12	Building (003)	red-brick building, along west facing wall	S
13	Building (003)	red-brick building, inside of west wall	SE
14	Building (003)	concrete feature on north end of (003)	N
15	Building (003)	concrete feature on north end of (003)	N
16	Building (003)	NE corner of (003) framed by rods	NE
17	Building (003)	NE corner of (003) framed by rods	NE
18	Building (003)	E facing wall of (003)	E
19	Building (003)	(003) path laid	S
20	Building (003)	(003) path laid	S
21	Building (003)	(003) from distance	S

Frame	Area	Subject	Taken From
22	Building (003)	(003) from distance	S
23	-	40m west from main site	S
24	-	40m west from main site	W

### Appendix C: Drawing log

Drawing No.	Area	Subject	Scale
1	E6	Battery E6 - Fixings (type 1)	1:10
2	E5	Battery E5-Fixings (type 2)	1:10
3	gate	Measured sketch of gates	1:50
4	gate	detail of gates	1:20
5	E2	Battery E2	1:50
6	E2	Battery E2 (detail)	1:20
7	E4	Battery E4	1:50
8	GEN	Section through ammo store/banking	1:20
9	E3	Battery E3	1:50
10	E5	Battery E5	1:50
11	E6	Battery E6	1:50
12	NW	Red-brick building (003) to northwest of main battery	1:50

### Appendix D: DES

LOCAL AUTHORITY:	South Lanarkshire Council
PROJECT TITLE/SITE NAME:	Redlees Quarry
PROJECT CODE:	3491
PARISH:	Blantyre (Hamilton)
NAME OF CONTRIBUTOR(S):	Warren Bailie
NAME OF ORGANISATION:	GUARD Archaeology Limited
TYPE(S) OF PROJECT:	Watching Brief and HBR
NMRS NO(S):	Canmore ID 107521 Site Number NS65NE 43
SITE/MONUMENT TYPE(S):	WW II Anti-aircraft battery
SIGNIFICANT FINDS:	none
NGR (2 letters, 6 figures)	NS 6818 5985
START DATE (this season)	26 <sup>th</sup> March 2012
END DATE (this season)	21 <sup>st</sup> May 2012
PREVIOUS WORK (incl. DES ref.)	none
MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields)	An archaeological watching brief was undertaken by GUARD Archaeology Ltd, on behalf of South Lanarkshire Council on a site proposed for the further development of a public park at the site of Redlees Quarry, Blantyre. GUARD undertook this programme of work between 26 <sup>th</sup> of March and 21 <sup>st</sup> May 2012. During the course of the watching brief the interior of the batteries were cleared revealing the metal footings and fixtures for the anti aircraft guns. The second phase of works monitored the removal of shrubs and trees from within the site and structures themselves, and the removal of earth banking and the shaping and grading of the immediate areas surrounding the structures. All buildings and features were recorded in plan, by photography and by description in <i>pro forma</i> context sheets; all built remains encountered remain <i>in situ</i> .
PROPOSED FUTURE WORK:	n/a
SPONSOR OR FUNDING BODY:	South Lanarkshire Council
CAPTION(S) FOR ILLUSTRS:	n/a
ADDRESS OF MAIN CONTRIBUTOR:	Warren Bailie
EMAIL ADDRESS:	warren.bailie@guard-archaeology.co.uk
ARCHIVE LOCATION (intended/deposited)	http\www.oasis.co.uk

**Appendix E: Project Design/WSI**

**REDLEES QUARRY, SOUTH LANARKSHIRE – WATCHING BRIEF**

**METHOD STATEMENT**

**PROJECT 3491**



## Contents

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# REDLEES QUARRY, SOUTH LANARKSHIRE – WATCHING BRIEF

## METHOD STATEMENT

PROJECT 3491

by

John A Atkinson

## Introduction

- 1.1 This document sets out GUARD Archaeology's watching brief methodology. The watching brief strategy covers all machine-dug and hand-dug trenches conducted during works within the AA battery and hand excavation and recording of any archaeological features encountered.
- 1.2 On completion of all excavation works a report to data structures level and an accompanying post-excavation research design (PERD) and costing (if required) will be submitted for agreement with TGP Landscape Architects and West of Scotland Archaeology Service acting on behalf of South Lanarkshire Council. The PERD will also outline arrangements for final publication of the project should this prove necessary.

## Aims and Objectives

- 2.1 The aims and objectives of the archaeological watching brief are as follows:
  - establish the presence or absence of any archaeological remains during ground breaking works;
  - determine the character, extent and significance of any archaeological deposits encountered;
  - excavate and salvage any information possible from any significant features/sites encountered.

## Methodology

- 3.1 The strategy to be employed during the works will consist of the following:
  - A full watching brief will be conducted during all ground disturbances within the AA compound by an archaeologist assisted, where necessary, by further archaeologists under the overall guidance of an archaeological project manager.
  - The number of archaeologists required during the works will be dependent on the number of areas being trenched simultaneously and the number of mechanical excavators being deployed.
  - All plant will be fitted with a toothless ditching bucket during all topsoil removal work to ensure the subsoil interface is not disturbed and any archaeological features can be clearly identified.
  - The topsoil and any overburden will be removed in spits to the first archaeological horizon or, where none is found, to the natural subsoil. Any archaeological features encountered will be cleaned by hand to determine the date of the deposits, their character and extent. Such features will be recorded by written description on pro forma recording sheets, by photograph and by measured drawing.
  - Any significant archaeological features encountered will be dealt with by the on-site archaeologist(s). Should negative-cut features be encountered they will be 50% excavated in order to determine their significance, date and function. In the event that they are deemed to be important discoveries, they will be fully excavated. Recording will include pro forma sheets, drawings and photographs.
  - Significance will be deemed to be material associated with the construction and use of the AA battery during WWII and any pre-nineteenth century archaeological traces encountered elsewhere on the site. Final decisions on significance lie with WoSAS as advisers to the Planning Authority.
  - Suitable down time, up to a maximum of two hours per significant small feature, will be provided to the onsite archaeologists in order to fully recover any archaeological evidence encountered.
  - Should more substantial remains be encountered, downtime may be required in excess of two hours per feature. This will be agreed in writing with TGP Landscape Architects and West of Scotland Archaeology Service acting on behalf of South Lanarkshire Council prior to proceeding.
  - In the event that particularly significant features, special finds or complex groups of features are encountered TGP Landscape Architects and West of Scotland Archaeology Service acting on

behalf of South Lanarkshire Council will be alerted, so that a mitigation strategy can be agreed to deal with them.

- All archaeological finds will be dealt with by the on-site archaeological team. The general practice will be to bulk recover all artefacts by context which are recovered from the topsoil. Should finds be encountered that are securely stratified from earlier periods or occupation phases they will be three-dimensionally recorded prior to uplifting.
  - All excavated feature fills and horizons will be sampled for palaeo-environmental evidence.
  - A representative section will be recorded for each section of trench denoting depth of topsoil, any stratigraphy present and the nature of the soil. This information will be logged in the day book together with a sketch drawn to scale and a photographic record of deposits.
- 3.2 On completion of the watching brief and monitoring phase of work, a report suitable for submission to the Planning Authority and the National Monuments Record for Scotland (NMRS) will be produced. This report will be accompanied by the post-excavation research design and costing in order to bring the results forward for analysis and publication should this be required.

## Products

- 4.1 The products of the programme of work will be:
- a preliminary data structure report, after completion of all fieldwork suitable for submission to West of Scotland Archaeology Service, the NMRS and the local Sites and Monuments Record;
  - a brief summary of results of the fieldwork will be submitted to Discovery and Excavation in Scotland and within OASIS online database;
  - Post-excavation analysis and publication of the results of the watching brief within an academic journal, should this be necessary;
  - Preparation and disposal of the site archive and finds.

## Archive Arrangements

- 5.1 Once all fieldwork is completed, all materials from the programme of work will be prepared to the appropriate archive standard. GUARD Archaeology will undertake to deposit the resultant archive to the NMRS on completion of the report for publication.
- 5.2 All finds will be reported to the Treasure Trove Advisory Panel, and GUARD Archaeology will undertake to ensure their safe deposition within the designated museum at the appropriate time.

## Timetable

- 6.1 The initial phase of work is proposed to commence on 16 April 2012.

## Staffing

- 7.1 The initial phase of work will be directed by Kevin Mooney one of GUARD Archaeology's experienced Field Officers. A CV can be provided on request.

## Health and Safety and Insurance

- 8.1 All archaeological working practices will be subject to a risk assessment prior to commencement of the work where likely health and safety issues associated with the site can be highlighted.
- 8.2 GUARD Archaeology adheres to all standard Health and Safety regulations governing fieldwork projects and also possess appropriate third party/public liability insurance cover, proof of which may be supplied upon request.

## Monitoring Procedures

- 9.1 All work at Redlees Quarry will be internally monitored by John Atkinson, GUARD Archaeology's Managing Director.

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