

**Hunterston Converter and Substation,
West Kilbride, North Ayrshire:
Archaeological Monitoring
Data Structure Report**



by Diane Gorman
issued 17th July 2014
on behalf of RSK Environment Ltd

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Quality Assurance

This report covers works which have been undertaken in keeping with the issued brief as modified by the agreed programme of works. The report has been prepared in keeping with the guidance of Rathmell Archaeology Limited on the preparation of reports. All works reported on within this document have been undertaken in keeping with the Institute for Archaeologists' Standards and Policy Statements and Code of Conduct.

Signed *Diane Gowan* Date ...17th July 2014.....

In keeping with the procedure of Rathmell Archaeology Limited this document and its findings have been reviewed and agreed by an appropriate colleague:

Checked ...*Claire Williamson*..... Date ...17th July 2014.....

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Non-Technical Summary

1. This Data Structure Report presents the details of archaeological mitigation works within the Hunterston Converter and Substation, West Kilbride, North Ayrshire development. Specifically, this report pertains to the programme of archaeological monitoring carried out by Rathmell Archaeology Ltd on behalf of RSK Environment Ltd. The monitoring works were designed to mitigate any adverse impact on the archaeological remains located within the development area.
2. The mitigation works were prompted by a programme of drainage works associated with the development. A need for monitoring in additional areas was determined through consultation between the Archaeological Consultant (RSK) and their Client and the Archaeological Curator, West of Scotland Archaeological Service (WoSAS).
3. Details of the locations, site works and findings of the original mitigation works and those additional works are presented below in the following report.

Introduction

4. This Data Structure Report has been prepared for RSK Environment Ltd on behalf of their clients in respect of the construction of the Hunterston Converter and Substation, West Kilbride, North Ayrshire. It describes the results of a programme of archaeological monitoring works carried out in order to mitigate the impact on the archaeological remains located within the development area.
5. North Ayrshire Council required a programme of archaeological works to be undertaken as a requirement of the issued planning consent (N/11/00708/PPPM). The West of Scotland Archaeology Service (WoSAS) - who advise North Ayrshire Council on archaeological matters - provided guidance on the structure of archaeological works required on site during ground disturbance works. RSK Environment Ltd have acted as the client's archaeological consultants, agreeing a proportionate response to meet the planning authority's concerns.
6. Rathmell Archaeology Limited were appointed by RSK Environment Ltd on behalf of their clients to undertake the implementation of archaeological monitoring works during the development of the site. The project works were specified in the Written Scheme of Investigation (RSK 2013), which was agreed with the West of Scotland Archaeology Service.
7. This report details the results and methodology of the archaeological monitoring works undertaken in keeping with the Written Scheme of Investigation (RSK 2013). This report assumes previous knowledge of this document.

Historical and Archaeological Background

8. This site has been subject to an archaeological appraisal that informed the Environmental Report by AECOM (2011). We assume within this report the reader's familiarity with this preceding document which is the basis for understanding the known landuse history of the area. This preceding work identified eighteen sites within the study area around the site, representing archaeological activity from the Mesolithic through to the post-medieval period.
9. Archaeological sites within the proposed development boundary recorded in the Environmental Report include the upstanding Goldenberry Farm (Site 18), former Whinstone quarries (Sites 19 & 20), a sub oval mound (Site 26) and a structure (Site 25) identified on historic mapping and a flint scatter (Site 10).
10. The site numbers refer to Figure 9.1 and Table 9-5 in AECOM 2011, with further details available in their Appendix E: Gazetteer.

Previous Archaeological Works

11. In July and August 2013 an intrusive archaeological evaluation was carried out across the site by Rathmell Archaeology Ltd. The evaluation consisted of 107 trenches which exposed

an 8% sample of the initial phase of the development area. Full results of the evaluation are presented in the Data Structure Report (Gordon 2013). The evaluation identified four feature groups across the site. These feature groups formed the centre of areas of sensitivity (Areas A-D). Further works were recommended involving open area strips centred on the feature groups.

12. The open area excavation of Area A was carried out by Rathmell Archaeology Ltd in August 2013. An area measuring 520m² in size was excavated; full results of the open area strip are presented in the Data Structure Report (Gordon 2014).

Project Works

13. Monitoring took place intermittently between 21st August 2013 and 18th March 2014. Ground disturbance activities were monitored within the area of the Phase 1 compound as well as drainage works associated with the Hunterston Converter and Substation, West Kilbride, North Ayrshire development agreed by the WSI (RSK 2013).
14. Further monitoring was undertaken in additional areas, as agreed by the Archaeological Consultant (RSK) and their Client and the Archaeological Curator, West of Scotland Archaeological Service (WoSAS). These areas were located in the Converter Station Field, limited to areas not investigated by the previous Rathmell Evaluation. Monitoring of works within the drainage route and the Converter Station Field were undertaken in areas presumed to be undisturbed ground.
15. All works complied with West of Scotland Archaeology Service Standard Conditions, the Institute for Archaeologist's Standards and Policy Statements and Code of Conduct and Historic Scotland Policy Statement.

Conventions

16. The context is the basic archaeological unit of description used to describe the characteristics of structures, cuts or sediments. Cut features (described as such because they 'cut' into the underlying subsoil or sediment/deposit) are denoted by squared brackets (e.g. [040]), Where features comprise elements of built structures (such as walls) or deposits which have been laid down in discrete episodes or which have accumulated over time are denoted by rounded brackets (e.g. (041)).
17. All depths described for discussed archaeological features assume a location in the base of the trench/strip after removal of topsoil.

Findings

18. The results of the archaeological monitoring are presented below. The works have been presented as they were organised on site, grouped by location (Figure 1). Archaeological Monitoring of the drainage route includes the Siemens' Compound Strip, Area One and Area Four. The areas in the Converter Station Field include Area two and Area 3. The assigned context numbers within groups reflect the number of area allocation. The Watching Brief areas were surrounded by evaluation trenches which relate to previous phases of works. The evaluation trenches and the Watching Brief areas are depicted in the site plan shown below (Figure 1). For full information on the evaluation phases of the works please refer to previous Data Structure Reports (Gordon 2013) (Gordon & Turner 2014) (Gordon 2013).

Siemens' Compound Strip

Monitoring of works in this area took place between 21st August and 2nd September 2013. The compound is located just inside the main site entrance, and is accessed via Powerstation Road. Excavation works were carried out by Blackwells, a third party contractor, monitored by a Rathmell Archaeologist. One 13 ton 360° tracked mechanical excavator was used to strip a total of 119m². The Siemens' Compound Area was larger than the meterage given here, but most of the area was not stripped. Where stripping did not take place, chipped concrete aggregate was lain straight over topsoil, and thus did not require archaeological monitoring.

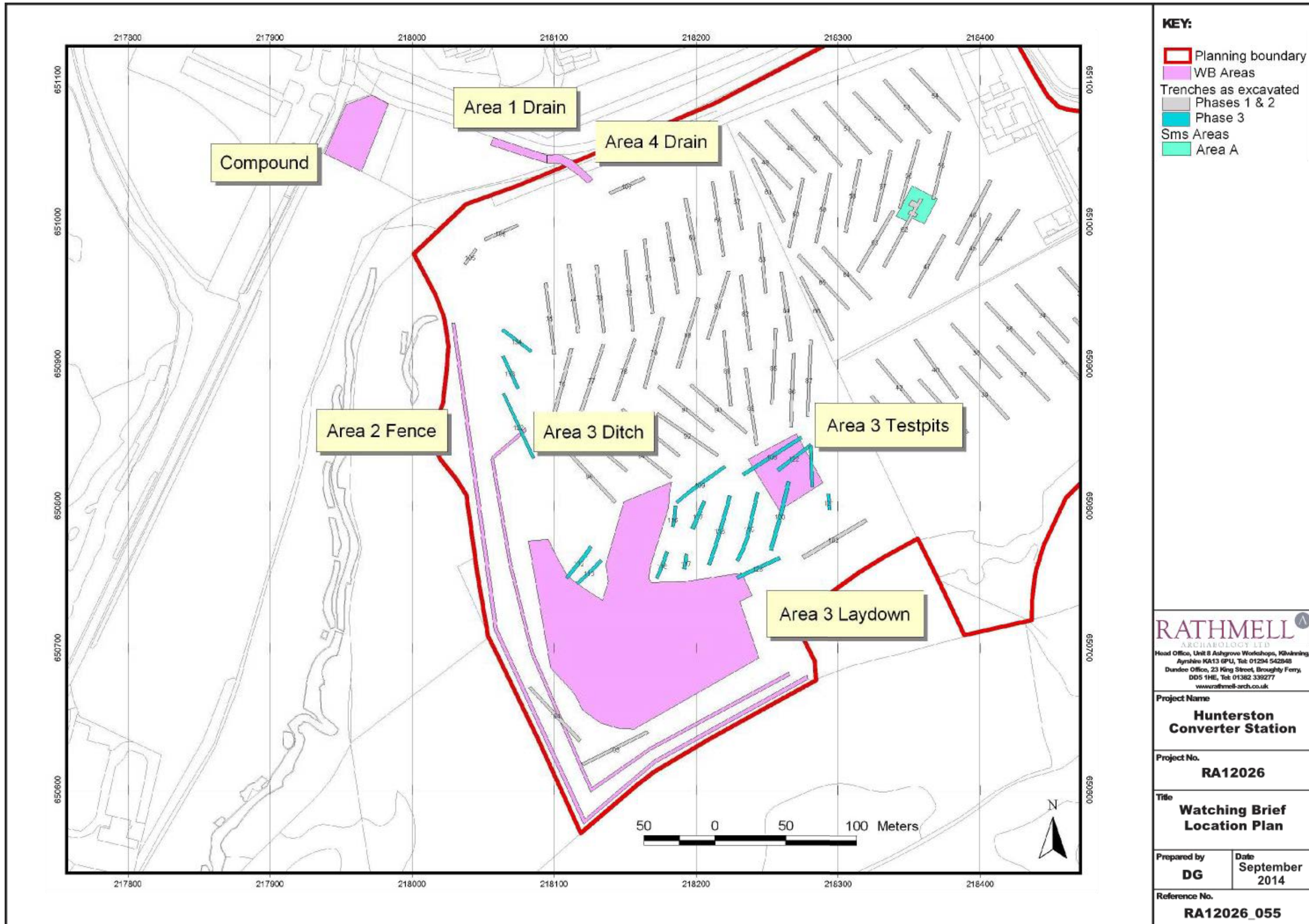


Figure 1: Watching Brief Location Plan

19. Across this area the topsoil (001) was 0.1m to 0.3m thickness and was friable, mid to dark brown sandy clay, with frequent roots and occasional small to medium stones.
20. A portion of the east side of the compound was the first to be stripped, measuring 82.5m² in total (Figure 2a). This was reduced through the removal of topsoil (001), exposing either (002) or (003) below. The majority of the strip exposed deposit (002) immediately below the topsoil. This was a mixture of red, orange and pink modern debris in a sandy matrix. The debris consisted of red ceramic drain fragments, modern red bricks and red brick fragments, chipped concrete aggregate, modern glass and metal pieces. As excavated, this was 0.1m to 0.2m thick, covering an area of 77.5m².
21. Deposit (003) was limited to the south-west corner of this rectangular stripped area, covering an area of 5m² in extent. This deposit was soft, light pink sand with occasional small to medium red sandstone inclusions, rare worked red sandstone blocks, and occasional concrete aggregate fragments. As excavated, this deposit was 0.2m thickness.
22. To the west of the initial Area two smaller areas were stripped (Figure 2b). The first measured 24m², and was reduced through removal of the topsoil (001) to expose (004) immediately below. Deposit (004) was a soft, light to mid brown sandy clay, with frequent roots and rootlets, small to medium stones, occasional modern red bricks and red brick fragments and occasional modern glazed white earthenware sherds. As excavated this deposit was 0.1m thick. The other area measured 12.5m² in extent, with the final level after stripping remaining within topsoil (001).
23. Other works carried out in the compound area included investigative trenching, in a location at the west side. An area covering 15m² was opened to establish previous service installations, and generally the trench exposed only disturbed ground. However, at the west side of the trench an area 0.5m wide was excavated through previously undisturbed ground.
24. The trench was excavated through topsoil (001) to expose 0.3m thickness of deposit (004) below. Below (004) was deposit (005) which was a soft, black, sandy clay with rare quartz fragments and occasional rootlets, measuring 0.2m in thickness. Immediately below this was (006), a firm, mid grey/light blue clay containing occasional quartz fragments, and measuring 0.4m in thickness. Context (007) was exposed below (006): measuring 0.2m thick, this context consisted of a mixture of soft slate, bedrock and gravel, the usual deposit found immediately above bedrock proper. Bedrock (008) was below this, at a depth of 1.4m. Bedrock in this area is red sandstone.

Area One

25. Monitoring of works in this area took place on 21st October 2013. It is located east of the Siemens' Compound, just off the back road which leads up towards Goldenberry Road (Figure 1). Excavation works were carried out by Blackwells, a third party contractor, monitored by a Rathmell Archaeologist. One 14 ton tracked 360° mechanical excavator was used to strip a total of 53m².
26. The excavated area was rectangular on plan, and located south of - and parallel to - the road. Excavation reduced the whole area through the removal of the uppermost deposit of 0.25m to 0.3m of topsoil (1001), which comprised a loose, dark brown/grey silty clay with occasional rootlets. The depth of excavation varied; the easternmost extent which measured 24m², was 1m in depth, to accommodate water drainage. The remaining extent to the west of this was shallower, reaching a maximum depth of 0.5m, and was 29m².
27. Excavation exposed subsoil (1002) over the entire area. This varied in thickness from 0.1m to 0.2m as excavated. Subsoil (1002) was firm, red/brown silty clay with no visible inclusions.
28. Along the south side of the main excavation area, a drainage channel was excavated, orientated west to east and continuing for the length of the stripped area. The channel was excavated through topsoil onto subsoil (1002), to a depth of 0.35m.

Area Two

29. Monitoring of works in this area, which is located within the Converter Station Field, took place on 6th November 2013. Excavations were carried out by Blackwells, a third party contractor, monitored by a Rathmell Archaeologist.
30. The excavation of a total of 99 post-holes were monitored in this area, forming the CDM Boundary Fence along the western and southern perimeter of the Converter Station Field (Figure 1). A mechanical post-hole borer was used to excavate the post-holes. Visibility of potential archaeological features was possible, but the opportunity to observe features was limited due to the narrow dimensions of the post-holes excavated by the contractor.
31. Post-holes 1 to 81 were excavated beginning from the NNW end of the field and continuing on towards the SSE. The direction of the post-holes then shifted 90°, with post-holes 82 to 99 heading ENE across the field. Topsoil (2001) covered the field in its entirety.
32. Excavation reduced the post-holes to a level below the uppermost strata of topsoil (2001), which was between 0.3m to 0.45m thickness. Two subsoil types were identified, (2002) and (2003). Subsoil (2002) was friable, mid grey (tinged red) slightly clayey sand, with occasional small angular stones, while subsoil (2003) was loose, dark red sandy clay with frequent small stones.
33. The results of the post-hole excavations are presented in the table below:

<i>Post-hole Number</i>	<i>Thickness(m) & Context</i>	<i>Post-hole Final Depth</i>	<i>Post-hole Dimensions</i>
1 – 64	0.25m – 0.35m (2002) 0.05m (2003)	0.7m	0.4m diameter
65 – 66	(2001)	0.1m	0.4m diameter
67	0.25m – 0.35m (2002) 0.05m (2003)	0.7m	0.5m by 0.66m
68 – 71	0.25m – 0.35m (2002) 0.05m (2003)	0.7m	0.4m diameter
72	0.05m (2003)	0.7m	0.5m by 0.66m
73 – 90	0.25m – 0.35m (2002) 0.05m (2003)	0.7m	0.4m diameter
91 – 99	0.25m (2003) as excavated	0.7m	0.4m diameter

Table 1

Area Three

34. Monitoring of works in this area took place between 7th January and 18th March 2014. It is located in the Converter Station Field (Figure 1). Excavations were carried out by I & H Brown, a third party contractor, works were carried out using 360° excavators equipped with flat bladed ditching buckets. The works monitored in this area included the excavation of test pits, the digging of a drainage ditch and, lastly, excavation of the haul road. Context numbers assigned for Area Three were utilised for all works in the area (e.g. topsoil is always (3001)).
35. Topsoil (3001) was loose, mid grey/brown silty clay, with rare small stones. The excavations exposed two types of subsoil, (3002) and (3003). Subsoil (3002) was firm, mid brown/orange silty clay, while subsoil (3003) was firm, pink/red clay, with no visible inclusions.
36. Excavations also exposed field drains across Area Three. Similar field drains were assigned the same context numbers and fill numbers. All were cut into subsoil (3002). Red ceramic drains are represented by [3004]. Drains assigned this number were 0.3m wide, filled by deposit (3005). This deposit was loose, light brown silty clay.



Figure 2a: Eastern stripped area of Siemens Compound Strip



Figure 2b: Showing two smaller areas stripped to the west (Siemens Compound)



Figure 3a: General shot of compound area & location of investigative trench



Figure 3b: Deposit (3020) within Test Pit One, Area 3



Figure 4a: Field drain [3006], Test Pit 10, Area 3



Figure 4b: General shot of drainage ditch, Area 3

37. Rubble drains are represented by [3006]. Drains assigned this number were 0.4m wide, filled by deposit (3007). This deposit was loose, dark brown silty clay, with large unworked stones. Natural bedrock in the area was (3019), which comprised a yellow sandstone.

Area 3 - Test Pits

38. One 14 ton tracked 360° mechanical excavator equipped with a flat bladed ditching bucket was used to strip a total of 16 test pits. The test pits were located west of Evaluation Trench 43 (Figure 1, Gordon 2013). Pits 1 to 10 ran from the north-east to south-west at 25m intervals, with Pits 11 to 16 then returning from south-west to north-east in line running parallel to pits 1 to 10. The pits were 2m wide by 3m long, and were of variable depth.
39. Excavation reduced the test pits through the uppermost deposit of topsoil (3001) which varied between 0.2m to 0.3m in thickness and which covered the entire area. Also exposed was deposit (3021), which was composed of softer, fractured yellow sandstone, a deposit often found above natural bedrock. Test Pit One also exposed a layer of (3020), a soft, finely grained black deposit (Figure 3b).
40. The results of the test pit excavations are presented in the table below:

<i>Test Pit</i>	<i>Final Depth</i>	<i>Strata & thickness (m)</i>	<i>Bedrock Depth</i>	<i>Agricultural features, Depth & Orientation</i>
1	1.7m	0.2m (3002) 0.2m (3020) 0.5m (3021) 0.6m (3019)	0.9m	None
2	1.4m	1.1m (3002)	1.4m	None
3	4m	0.3m to 0.4m (3002) 3.2m (3003)	Not found	None
4	2.9m	2.6m (3002)	Not found	None
5	4m	1m (3002) 2.7m (3003)	Not found	[3004]; 0.4m; NNW to SSE
6	2.3m	2m (3002)	2.3m	[3004]; 0.4m; NNW to SSE
7	2.4m	2.1m (3002)	2.4m	None
8	1.9m	1.7m (3002)	1.9m	[3004]; 0.4m, 0.9m; NNW to SSE
9	2.9m	2.6m (3002)	2.9m	[3004]; 0.9m; N to S
10	2.7m	0.7m (3002) 1.7m (3003)	2.7m	[3006]; 0.4m; N to S
11	0.6m	0.3m (3002)	Not found	None
12	0.6m	0.3m (3002)	Not found	None
13	0.75m	0.3m (3002)	0.75m	[3006]; 0.4m; SW to NE
14	2.8m	1m (3002) 1m (3003)	2.8m	[3006]; 0.35m; W to E
15	0.6m	0.3m (3002)	Not found	[3004]; 0.6m; SW to NE
16	0.6m	0.3m (3002)	0.6m	None

Table 2

Area 3 - Drainage Ditch

41. One 14 ton tracked 360° mechanical excavator was used to excavate 484m² of drainage ditch, using a V ditch digging bucket. The drainage ditch was located at the west and south boundaries of the Converter Station Field. It was 1m wide, varying in depth between 0.5m and 0.8m. Excavation of the ditch began at the south-west corner of the field, heading north-west along the western edge of the CDM boundary for 280m. They then returned to the south-west corner of the field before excavating north-east along the southern edge of the CDM boundary for 150m (Figure 4b).
42. The excavation along the western edge of the CDM fence reduced the drainage ditch through the uppermost strata of 0.3m to 0.5m thickness of topsoil (3001), which covered the entire area. The first 106m of the ditch from the south-west corner heading in a north-west direction, did not reach subsoil, exposing instead 0.2m to 0.25m thickness of hillwash deposit (3008) below. This deposit was compacted light brown/orange clayey silt with occasional small stones and rootlets.
43. Beyond this point, excavation through topsoil exposed subsoil (3002) below. As excavated, this deposit was 0.2m to 0.25m thick within the drainage ditch. From 106m from the south-west corner to 170m from the south-west corner (continuing in a north-west direction) bedrock (3019) was exposed below subsoil (3002) at a depth varying between 0.4m and 0.6m.
44. An agricultural field drain [3009] was exposed at 106m. This contained a red tile field drain, 0.3m wide, orientated west to east across the ditch. The surrounding fill was (3010), a friable, light brown sandy silt with occasional medium size stones.
45. At 174m from the south-west corner, continuing in a north-west direction) a possible feature [3011] was exposed in the west-facing section of the ditch. As visible in section, this was 0.78m wide and 0.23m thickness. The sides sloped at >45°, and the base is relatively flat. Deposit (3012) fills this feature, and was friable, dark brown sandy silt. This was cut into subsoil (3002).
46. Deposit (3013) was found on the south side of [3011], running adjacent to it at the same depth. Deposit (3013) was friable, mid brown sandy silt, 0.09m thickness. Above this deposit was (3014), which partially covered [3011]. Deposit (3014) was friable, light brown/grey sandy clay with occasional small stones and charcoal inclusions. Both deposits (3013) and (3014) were visible in section for 3.5m south before petering out.
47. The ditch continued for a further 80m north-west; it then turned north-east for a distance of 30m, where it terminated.
48. The section of ditch along the southern edge of the CDM fence was deeper than the previous section, and was excavated to a maximum depth of 0.8m. The ditch was reduced through 0.4m thickness of topsoil (3001), through 0.4m thickness of subsoil (3002), where the excavation stopped. No features were present.

Area 3 - Haul Road Strip

49. One 14 ton tracked 360° mechanical excavator with a flat bladed ditching bucket was used to strip the haul road. Although the haul road begins close to Goldenberry Road at the eastern extent of the field, the majority of this area had already been investigated during the Evaluation, and so archaeological monitoring was not necessary for the entirety of the strip. The monitored area of the haul road began to the west of Evaluation Trench 43 (Figure 1, Gordon 2013). After this the strip follows the upwards slope of the hill to the south-west. The haul road strip opens out into a rectangular area measuring 2800m² in the south-west corner of the Converter Station Field.
50. Excavation reduced the area through the removal of the uppermost strata of topsoil (3001), which covered the entirety of the stripped area to a maximum depth of 0.3m. Topsoil depth varied between 0.2m to 0.3m, directly overlying subsoil (3002) across the whole area. Occasional agricultural field drains [3006] were found during the excavation of the strip. These were orientated west to east.

51. Located 15m to the north-west of the eastern end of the drainage ditch, a spread of material (3015) was investigated. This deposit was firm, mid grey/brown clayey silt, with rare rootlets and charcoal inclusions, and measured 0.43m by 0.74m by 0.14m depth.
52. A further linear trench measuring 16m long by 2.1m wide was excavated by the third party contractor at the western edge of the Converter Station Field. The trench was orientated north-west to south-east. Monitoring of this excavation exposed a linear feature [3017] across the width of the trench. This feature was 0.9m wide, and ran the full 2.1m width of the trench; it is likely this feature extended further but the south-west and north-east extents were obscured by the limits of excavation.
53. The feature was filled by deposit (3018), which was a loose, mid grey/brown silty clay with occasional small to medium stones and rootlets. A slot 0.25m wide was excavated through the linear feature, revealing it to be 0.3m depth, and cut into subsoil (3002). The base of the feature was filled with medium sized unworked stones within deposit (3018). This feature also appeared to have had a rubble drain [3006] cut through the top, along the north-west side. The stones of the rubble drain appeared to be coated in chalk or lime.

Area 4

54. Monitoring of works in this area took place between 3rd February and 10th February 2014. It is located just to the east of Area One, on the east side. The works in this area were a continuation of the drainage works in Area One (Figure 1) and they included the excavation of a pipe trench, and a connecting man-hole. Excavations were carried out by I & H Brown, a third party contractor, monitored by a Rathmell Archaeologist. One 14 ton tracked 360° mechanical excavator with a flat bladed ditching bucket ditching bucket was used to strip 174m² in total.
55. A rectangular access area measuring 150m² was stripped, in a location to the north-east of the excavations in Area One. Excavation reduced the whole area through the uppermost deposit of 0.3m of topsoil (4001). This was a loose, dark grey/brown silty clay, with frequent small stone inclusions.
56. Excavation through the topsoil exposed hillwash deposit (4002) below, which covered the whole of the stripped area. Deposit (4002) was firm, mid brown/orange silty clay with frequent small to large stones, rare modern red bricks and red brick fragments and rare modern wood pieces. Further excavation through this deposit was targeted where the man-hole and pipe trench were excavated, rather than a reduction of the entire stripped area. Where further excavation took place, this deposit was 0.4m thickness.
57. A dry stone wall [4006] which ran through this area was partially demolished to accommodate the construction works. This was orientated WSW to ENE, stood ten courses high and ranged in width from 0.4m to 0.6m. A 15m stretch of wall was removed during these works, revealing the structure to be cut into deposit (4002) at 0.15m depth. Two further courses were exposed below ground.
58. The pipe trench was then cut through this cleared rectangular area. Covering an area of 15m², it measured 10m by 1.5m and reached a depth of 1.8m. The trench was orientated WNW to ESE, ending in a larger area for a man-hole at the ESE side. The pipe trench was cut through 0.4m thickness of deposit (4002) to expose 0.2m thickness of deposit (4003) which was a firm, dark brown clayey silt with no visible inclusions. Below this subsoil (4005) was revealed to a maximum depth of 0.8m. This was loose, mid orange, small to medium stones in silty clay matrix. Below this depth the excavations cut into 0.1m thickness of bedrock (4004) (red sandstone).
59. The pipe trench then sloped upwards to the north-east, at which point the depth of subsoil (4005) dramatically decreases. For the next 1m the thickness of the subsoils decreases to 0.2m. As the pipe trench opens up to accommodate the man-hole trench, the subsoil is no longer present. The man-hole trench measured 3m by 3m in extent by 1.8m deep, with the interior reduced through the removal of 0.5m thickness of topsoil (4001) and 0.8m thickness of deposit (4002) onto 0.4m thickness of deposit (4003). Below this, there was no subsoil, but rather the excavation came straight down onto bedrock (4004), which was reduced by 0.1m.

Discussion

60. The interpretation of the findings of the archaeological monitoring which were undertaken along the proposed drainage route and the works within the Converter Station Field are presented below. They are arranged in the same format as they were presented above.

Siemens' Compound Strip

61. The rectangular area stripped at the east side of the compound mainly exposed deposit (002). The material which made up this deposit indicated a layer of demolition material of fairly recent origin. Deposit (003), which was found in the south-west corner of the rectangular area, also seemed to indicate demolition debris. The worked red sandstone blocks would seem to have represented a dump of material from a sandstone building, though not necessarily from the immediate area. The concrete aggregate inclusions within this deposit indicate a fairly recent date. Both deposits (002) and (003) seem likely to have been 20th century in date.
62. The smaller rectangular area to the west of this exposed only deposit (004) below the topsoil. The nature of this material, being soft and loose, and the artefacts present within the deposit make it likely that this is a landscaping deposit, brought in to level the area. The modern artefacts indicate it is fairly recent in date, having either a late 19th or early 20th century origin.
63. The investigative trench excavated at the west side of the site generally exposed very recent disturbance from recent service installations. However, the 0.5m width of less disturbed ground adjacent was worthy of note. The possible landscaping deposit (004) was also found in this area, at a depth of 0.5m. The nature of the deposit which was found below (004) - deposit (005) - possibly relates to industrial activity in the area. The black sandy nature of the deposit with its quartz inclusions could relate to a burnt deposit of sand.
64. The deposit below this, (006), had the appearance of natural undisturbed subsoil. No visible archaeological features were cut into this deposit. The light grey colour of this clay subsoil is characteristic of waterlogged and wet areas and it is possible that the presence of this particular subsoil is evidence that the area was once heavily waterlogged, which in turn will have required significant disturbance in order to drain it.
65. Generally the nature of the exposed material throughout this area indicated that it had been heavily disturbed in recent times, either in the 19th or 20th century. We were informed by MAGNOX staff (*pers. comm Tony Buckley*) that the area of the compound and for a few hundred metres to the south had been used for the site compound for building Hunterston A power Station in the 1960s; this would seem to be the most likely explanation for the disturbance.

Area 1, Area 2 & Area 4

66. Modern disturbance represented by electricity cable brick covers were the only evidence of activity found in the Area 1 & 4. Subsoil (1002) was exposed across the entire strip, but no visible archaeological features were found and no archaeological material was recovered.
67. Archaeological monitoring of the excavation of the post-holes in Area Two did not expose any significant archaeological features or material.

Area 3 - Test Pits

68. Excavations of the test pits exposed only evidence of agricultural improvements in the form of red tile field drains [3004] and rubble drains [3006]. Two phases of improvements seem to be shown, represented by the red ceramic field drains and the rubble drains.
69. Rubble style subsoil drainage attempts such as [3006] and red tile drains [3004] are generally attributed to 19th and 20th century agricultural improvements. Generally, rubble style field drains pre-date 1830, while the red ceramic field drains are post 1830.

Area 3 - Drainage Ditch

70. Archaeological monitoring of the excavation of the drainage ditch in the Converter Station Field did not expose anything of significant archaeological interest. Further evidence of agricultural improvement was provided by the existence of red tile field drain [3009].
71. The possible feature [3011] which was found in the section of the drainage ditch seems most likely to result from natural geological movement in the area rather than human activity. Materials similar to the fill of [3011] lay adjacent to it on the south side, deposits (3012) and (3013). This suggests a natural flow and deposition of material downslope, rather than purposeful infill. The feature itself is likely to result from geological displacement, perhaps the result of flooding. The layer above, (3014), seems to be a mixture of deposits (3012) and (3013), which again seems likely to indicate natural origins, with animal burrowing seeming the most likely explanation.

Area 3 - Haul Road Strip

72. The majority of features exposed during the haul road strip pertain to agricultural improvements of the land, with little other indication of human activity in the area. Approximately ten rubble field drains [3006] were exposed during the course of the monitoring, orientated west to east across the field. No further red tile field drains [3004] were noted.
73. The spread of material (3015) which was investigated as having the potential to pertain to human activity seems more likely instead to result from natural agencies. The isolation of the spread from any other discernible activity in the area further supports this. Scant charcoal evident in the deposit is more likely to relate to natural biodegradation of organic matter, rather than an area of intense burning such as that which would be left after a fire.
74. The linear feature investigated during the excavation of the trench at the west side of the field is, however, of interest. The orientation of the feature WNW to ESE seems to relate to a similar linear feature which was found during the preceding evaluation. During these works, a linear feature was exposed in Trenches 110 and 111 (Figure 1, Gordon 2013) which followed the same orientation. The trenches in this location were excavated over a mound which was evident on the ground surface. Assessment of the mound showed it to be associated with a land boundary, first depicted on the 1st Edition Ordnance Survey Map of 1855, and shown on maps until 1960. This land boundary was marked by a hedge, which began at the south side of Goldenberry Cottage and continued south-westwards up the slope towards this location, petering out when it crossed the field.

Discussion Summary

75. Archaeological monitoring of the works associated with the drainage route and the works in the Converter Station Field did not expose significant archaeology. The majority of evidence pertained to agricultural activity from the 19th and 20th centuries, with possible landscaping and levelling activities evidenced close to the water front at the north-west end of the site.
76. While the works located within the Converter Station Field did reveal natural subsoil, no evidence for significant archaeology was found cut into it. In conjunction with the findings of the open area strip which was carried out in the lower portion of this field (Area A), it can be argued that there is very little evidence for human activity in this field (Gordon 2014). The topography and geology of this area may perhaps provide some explanation for this absence, given that the entire area gradually slopes downhill from the south, and also the shallow nature of the bedrock in some places.

Conclusion

77. Archaeological monitoring works took place between 21st August 2013 and 18th March 2014 on behalf of RSK Environment Ltd. Rathmell Archaeology Ltd were appointed by RSK Environment Ltd on behalf of their clients with respect to the construction of the Hunterston Converter and Substation, West Kilbride, North Ayrshire.
78. North Ayrshire Council required a programme of archaeological works to be undertaken as a requirement of the issued planning consent (N/11/00708/PPPM). The West of Scotland Archaeology Service (WoSAS) who advise North Ayrshire Council on archaeological matters provided guidance on the structure of archaeological works required on site during extraction works.
79. The archaeological mitigation works were designed to mitigate the impact on any archaeological remains located with the development area. During the archaeological monitoring, the features uncovered pertained to 19th and 20th century activities, natural agencies (e.g. bioturbation) and modern landscaping. Due to the nature of the features found no further works are recommended.

Acknowledgements

80. The author would like to thank WoSAS and RSK for their guidance and support throughout the monitoring works. Thanks must also be extended to Callum Allsop for his help with the supporting appendices attached to this report.

References

Documentary

- | | | |
|-----------------|------|---|
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| Gordon, D | 2014 | <i>Hunterston Converter Station and Substation, West Kilbride, North Ayrshire: Archaeological Mitigation Area A Data Structure Report</i> Unpublished commercial document by Rathmell Archaeology Ltd. |
| Gordon, D | 2013 | <i>Hunterston Converter and Substation, West Kilbride, North Ayrshire: Archaeological Mitigation Data Structure Report</i> Unpublished commercial document by Rathmell Archaeology Ltd. |
| Gordon, D | 2013 | <i>Hunterston Converter and Substation, West Kilbride, North Ayrshire: Archaeological Evaluation Data Structure Report</i> Unpublished commercial document by Rathmell Archaeology Ltd. |
| Gordon & Turner | 2014 | <i>Hunterston Converter and Substation, West Kilbride, North Ayrshire: Archaeological Evaluation Data Structure Report 2nd Addendum</i> Unpublished commercial document by Rathmell Archaeology Ltd. |

Cartographic

- | | | |
|------|-----------------|---|
| 1855 | Ordnance Survey | 1 st edition Ordnance Survey |
| 1960 | Ordnance Survey | 7 th edition Ordnance Survey |

Appendix 1: Registers

Siemens Compound Strip

Context Register

Context No.	Area/Trench	Type	Description	Interpretation
001	Compound	Deposit	Friable, mid to dark brown sandy clay with occasional small to medium stones. Measures 0.1 to 0.3m thickness.	Topsoil.
002	Compound	Deposit	Firm mixture of red, orange and pink modern debris in a sandy matrix. Debris consists of red ceramic drain fragments, modern red bricks and red brick fragments, chipped concrete aggregate, modern glass and metal pieces. As excavated 0.1m to 0.2m thickness, covering an area of 77.5m ² .	Modern demolition deposit.
003	Compound	Deposit	Soft light pink sand with occasional small to medium red sandstone inclusions, rare worked red sandstone blocks and chipped concrete aggregate. As excavated 0.2m thickness, covering an area of 5m ² .	19 th /20 th century demolition deposit.
004	Compound	Deposit	Soft, light to mid brown sandy clay with frequent roots and rootlets, small to medium stones, occasional modern red brick and red brick fragments and occasional modern white glaze pottery. As excavated 0.1m thickness.	19 th /20 th century landscaping deposit.
005	Compound	Deposit	Soft, black sandy clay with rare quartz fragments and occasional rootlets. 0.2m thickness as excavated.	Possible industrial deposit.
006	Compound	Deposit	Firm, mid grey/light blue clay, 0.4m thickness.	Natural subsoil.
007	Compound	Deposit	Mixture of soft slate, bedrock and gravel, 0.2m thickness.	Soft bedrock.
008	Compound	Deposit	Red sandstone, found at 1.4 depth.	Natural bedrock.

Sample Register

Sample No.	Area/Trench	Context	Sample Type	Description	Excavator	Date
001	Compound	005	1 x Medium bag	Soft, black sandy clay with rare quartz fragments and occasional rootlets.	DiG	30/08/13

Photographic Register

Image No.	Print		Slide		Digital	Description	From	Date
	Film No.	Neg. No.	Film No.	Neg. No.				
001					001	General shot, compound area strip	NE	21/08/13
002					002	General shot, compound area strip	NNW	21/08/13
003					003	General shot, compound area strip	N	21/08/13
004					004	As above, demolition material (002)	NNW	21/08/13
005					005	Pre-excavation shot, remainder of compound area	NW	21/08/13
006					006	As above, showing location of manhole	NE	21/08/13
007					007	Pre-excavation shot, remainder of compound area	NNW	21/08/13
008					008	Pre-excavation shot, compound area	NE	28/08/13
009					009	General pre-excavation shot of area B	NW	28/08/13
010					010	General pre-excavation shot of area A	ENE	28/08/13
011					011	Mid-excavation shot of area A	WNW	28/08/13
012					012	Mid-excavation shot of area A	WNW	28/08/13
013					013	Post-excavation shot of area A	WSW	28/08/13
014					014	Shot of investigative cable trench	NE	28/08/13
015					015	Shot of investigative cable trench	S	28/08/13
016					016	Post-excavation shot of area B	NW	28/08/13
017					017	Post-excavation shot of area B	NW	28/08/13
018					018	Post-excavation shot of areas A and B	W	28/08/13
019					019	Post-excavation shot of area C	WSW	30/08/13
020					020	Post-excavation shot of area C	WSW	30/08/13

021					021	Location shot of area C	SSW	30/08/13
022					022	General shot showing compound	SSW	30/08/13
023					023	General shot showing area C	SE	30/08/13
024					024	General shot showing area C	NE	30/08/13
025					025	Mid-excavation shot of area C	ESE	30/08/13
026					026	As above, showing disturbance from services	ESE	30/08/13
027					027	As above	ESE	30/08/13
028					028	General shot of investigative cable trench reaching bedrock (area C)	SSW	30/08/13
029					029	As above	WNW	30/08/13
030					030	As above	SE	30/08/13
031					031	As above	SE	30/08/13
032					032	General post-excavation shot	WNW	30/08/13
033					033	General post-excavation shot	WSW	30/08/13
034					034	General post-excavation shot	WNW	30/08/13
035					035	General shot of southern drainage trench	NE	02/09/13
036					036	As above, north facing section	NE	02/09/13
037					037	As above, south facing section	S	02/09/13
038					038	General shot of area D extended	NE	02/09/13
039					039	As above	ESE	02/09/13
040					040	As above south facing section	ESE	02/09/13
041					041	General shot of area D excavation	SW	02/09/13
042					042	General shot of area D excavation	SW	02/09/13
043					043	General shot of area D excavation	NE	02/09/13

*Area One**Context Register*

Context No.	Area/Trench	Type	Description	Interpretation
1001	Area 1	Deposit	Loose, dark brown/grey silty clay. 0.3m thickness. Extends over whole area	Topsoil.
1002	Area 1	Deposit	Firm, red/brown/orange silty clay. Extends over whole area.	Natural subsoil.

Finds Register

Find No.	Area/Trench	Context no.	Material Type	Description	Excavator	Date
1001	Area 1	1001	Ceramic	Red electricity cable brick x 1	SP	21/10/13
1002	Area 1	1001	Ceramic	Beige electricity cable brick x 1	SP	21/10/13
1003	Area 1	1001	Lithic	Burnt flint x 1	SP	21/10/13
1004	Area 1	1001	Ceramic	White glaze pottery sherds x 1	SP	21/10/13

Photographic Register

Image No.	Print		Slide		Digital	Description	From	Date
	Film No.	Neg. No.	Film No.	Neg. No.				
1001	-	-	-	-	001	General shot	N	21/10/13
1002	-	-	-	-	002	General shot	NE	21/10/13
1003	-	-	-	-	003	General shot	NE	21/10/13
1004	-	-	-	-	004	North facing section of trench	E	21/10/13
1005	-	-	-	-	005	General shot, excavation of drainage channel	SE	21/10/13
1006	-	-	-	-	006	As above	SE	21/10/13

1007	-	-	-	-	007	As above	SE	21/10/13
1008	-	-	-	-	008	As above	SE	21/10/13
1009	-	-	-	-	009	As above	SE	21/10/13
1010	-	-	-	-	010	As above	SE	21/10/13
1011	-	-	-	-	011	As above	SE	21/10/13
1012	-	-	-	-	012	As above	SE	21/10/13
1013	-	-	-	-	013	As above	SE	21/10/13
1014	-	-	-	-	014	As above	SE	21/10/13
1015	-	-	-	-	015	General shot, showing drainage of water	N	21/10/13
1016	-	-	-	-	016	Base of trench	N	21/10/13
1017	-	-	-	-	017	As above, zoomed in	N	21/10/13
1018	-	-	-	-	018	Extension of trench to west	N	21/10/13
1019	-	-	-	-	019	Extension of trench to west	N	21/10/13
1020	-	-	-	-	020	General shot of coal, charcoal and red brick debris in topsoil (1001)	N	21/10/13
1021	-	-	-	-	021	Close up of metal pipes embedded in ground	NW	21/10/13
1022	-	-	-	-	022	Removal of scaffolding pole debris	NW	21/10/13
1023	-	-	-	-	023	Removal of scaffolding pole debris	NW	21/10/13
1024	-	-	-	-	024	<i>In situ</i> electricity cable bricks	NW	21/10/13
1025	-	-	-	-	025	Post-excavation shot of trench	NW	21/10/13

*Area Two**Context Register*

Context No.	Area/Trench	Type	Description	Interpretation
2001	Area 2	Deposit	Friable, mid brown slightly clayey sand, occasional rootlets. 0.3 – 0.45m thickness. Extends over entire area.	Topsoil.
2002	Area 2	Deposit	Friable mid grey (tinged red) clayey sand, occasional small angular stones. 0.25m – 0.35m thickness. Extends over entire area.	Natural subsoil.
2003	Area 2	Deposit	Loose, dark red sandy clay, frequent small stones. 0.05m thickness. Extends over entire area.	Natural subsoil.

Photographic Register

Image No.	Print		Slide		Digital	Description	From	Date
	Film No.	Neg. No.	Film No.	Neg. No.				
2001					026	Posthole 1	S	6/11/2013
2002					027	Posthole 2	S	6/11/2013
2003					028	Posthole 3	S	6/11/2013
2004					029	Posthole 4	S	6/11/2013
2005					030	Posthole 5	S	6/11/2013
2006					031	Posthole 6	S	6/11/2013
2007					032	Posthole 7	S	6/11/2013
2008					033	Posthole 8	S	6/11/2013
2009					034	Posthole 9	S	6/11/2013
2010					035	Posthole 10	S	6/11/2013
2011					036	Posthole 11	N	6/11/2013

2012					037	Posthole 12	N	6/11/2013
2013					038	Posthole 13	N	6/11/2013
2014					039	Posthole 14	N	6/11/2013
2015					040	Posthole 15	N	6/11/2013
2016					041	Posthole 16	N	6/11/2013
2017					042	Posthole 17	N	6/11/2013
2018					043	Posthole 18	N	6/11/2013
2019					044	Posthole 19	N	6/11/2013
2020					045	Posthole 20	N	6/11/2013
2021					046	Posthole 21	N	6/11/2013
2022					047	Posthole 22	N	6/11/2013
2023					048	Posthole 23	N	6/11/2013
2024					049	Posthole 24	N	6/11/2013
2025					050	Posthole 25	N	6/11/2013
2026					051	Posthole 26	N	6/11/2013
2027					052	Posthole 27	N	6/11/2013
2028					053	Posthole 28	N	6/11/2013
2029					054	Posthole 29	N	6/11/2013
2030					055	Posthole 30	N	6/11/2013
2031					056	Posthole 31	N	6/11/2013
2032					057	Posthole 32	N	6/11/2013
2033					058	Posthole 33	N	6/11/2013
2034					059	Posthole 34	N	6/11/2013

2035					060	Posthole 35	N	6/11/2013
2036					061	Posthole 36	N	6/11/2013
2037					062	Posthole 37	N	6/11/2013
2038					063	Posthole 38	N	6/11/2013
2039					064	Posthole 39	N	6/11/2013
2040					065	Posthole 40	N	6/11/2013
2041					066	Posthole 41	N	6/11/2013
2042					067	Posthole 42	N	6/11/2013
2043					068	Posthole 43	N	6/11/2013
2044					069	Posthole 44	N	6/11/2013
2045					070	Posthole 45	N	6/11/2013
2046					071	Posthole 46	N	6/11/2013
2047					072	Posthole 47	N	6/11/2013
2048					073	Posthole 48	N	6/11/2013
2049					074	Posthole 49	N	6/11/2013
2050					075	Posthole 50	N	6/11/2013
2051					076	Posthole 51	N	6/11/2013
2052					077	Posthole 52	N	6/11/2013
2053					078	Posthole 53	N	6/11/2013
2054					079	Posthole 54	N	6/11/2013
2055					080	Posthole 55	E	6/11/2013
2056					081	Posthole 56	E	6/11/2013
2057					082	Posthole 57	E	6/11/2013

2058					083	Posthole 58	E	6/11/2013
2059					084	Posthole 59	E	6/11/2013
2060					085	Posthole 60	E	6/11/2013
2061					086	Posthole 61	E	6/11/2013
2062					087	Posthole 62	E	6/11/2013
2063					088	Posthole 63	E	6/11/2013
2064					089	Posthole 64	E	6/11/2013
2065					090	Posthole 65	E	6/11/2013
2066					091	Posthole 66	E	6/11/2013
2067					092	Posthole 67	E	6/11/2013
2068					093	Posthole 68	E	6/11/2013
2069					094	Posthole 69	E	6/11/2013
2070					095	Posthole 70	E	6/11/2013
2071					096	Posthole 71	E	6/11/2013
2072					097	Posthole 72	E	6/11/2013
2073					098	Posthole 73	E	6/11/2013
2074					099	Posthole 74	E	6/11/2013
2075					100	Posthole 75	E	6/11/2013
2076					101	Posthole 76	E	6/11/2013
2077					102	Posthole 77	E	6/11/2013
2078					103	Posthole 78	E	6/11/2013
2079					104	Posthole 79	E	6/11/2013
2080					105	Posthole 80	E	6/11/2013

2081					106	Posthole 81	E	6/11/2013
2082					107	Posthole 82	E	6/11/2013
2083					108	Posthole 83	E	6/11/2013
2084					109	Posthole 84	E	6/11/2013
2085					110	Posthole 85	E	6/11/2013
2086					111	Posthole 86	E	6/11/2013
2087					112	Posthole 87	E	6/11/2013
2088					113	Posthole 88	E	6/11/2013
2089					114	Posthole 89	E	6/11/2013
2090					115	Posthole 90	E	6/11/2013
2091					116	Posthole 91	E	6/11/2013
2092					117	Posthole 92	E	6/11/2013
2093					118	Posthole 93	E	6/11/2013
2094					119	Posthole 94	E	6/11/2013
2095					120	Posthole 95	E	6/11/2013
2096					121	Posthole 96	E	6/11/2013
2097					122	Posthole 97	E	6/11/2013
2098					123	Posthole 98	E	6/11/2013
2099					124	Posthole 99	E	6/11/2013
2100					125	Posthole 100	E	6/11/2013

Area Three

Context Register

Context No.	Area/Trench	Type	Description	Interpretation
3001	Test Pits	Deposit	Loose, mid grey/brown silty clay, 0.3m thickness.	Topsoil.
3002	Test Pits	Deposit	Firm, mid brown/orange silty clay. 1m thickness.	Natural subsoil.
3003	Test Pits	Deposit	Firm, pink/red clay, varied thickness, 1m to 2.7m thickness.	Natural subsoil.
3004	Test Pits	Cut	Linear feature, 0.3m width, vertical sides, flat base.	Cut for red ceramic field drain.
3005	Test Pits	Deposit	Loose, light brown silty clay, surrounding red ceramic field drain.	Fill of [3004].
3006	Test Pits	Cut	Linear feature, 0.4m width.	Cut for rubble field drain.
3007	Test Pits	Deposit	Loose, dark brown silty clay with abundant small to medium angular stones.	Fill of [3006].
3008	Drainage ditch	Deposit	Compacted, light brown/orange clayey silt with small stone and fine rootlets inclusions, 0.2 to 0.25m thickness.	Colluvial deposit.
3009	Drainage ditch	Cut	Linear feature, orientated west to east across drainage ditch, 0.3m width.	Cut for ceramic field drain.
3010	Drainage ditch	Deposit	Friable, light brown sandy silt with occasional medium size stones surrounding red ceramic field drain.	Fill of [3009].
3011	Drainage ditch	Cut	Visible in west facing section of drainage ditch. 0.78m long by 0.23m depth. Sides slope at >45° base is nearly flat.	Cut of possible feature.
3012	Drainage ditch	Deposit	Friable, dark brown sandy silt, rare large stones.	Fill of [3011].
3013	Drainage ditch	Deposit	Friable, mid brown sandy silt, 0.9m thickness.	Naturally occurring hillwash deposit.
3014	Drainage ditch	Deposit	Friable, light brown/grey sandy clay, occasional small stones, rare charcoal inclusions, 0.11m thickness.	Mixture of deposits (3013) and (3014) resulting from bioturbation.
3015	Haul road	Deposit	Firm, mid grey clayey silt with occasional rootlets, rare charcoal and hard clay inclusions. Dimensions are 0.43m by 0.74m by 0.14m thickness.	Bioturbation.
3016	Haul road	Deposit	Loose, mid grey/brown silty clay, rare charcoal flecks and rootlets. Dimensions were 0.29m by 0.27m by 0.06m thickness.	Bioturbation.
3017	Haul road	Cut	Linear feature, orientated WNW to ESE. Dimensions are 2.1m length by 0.9m width, 0.3m depth.	Field boundary cut.

3018	Haul road	Deposit	Loose, mid grey brown sandy clay with frequent small to large stones.	Fill of [3017].
3019	Test pits	Deposit	Yellow sandstone	Natural bedrock.
3020	Test pits	Deposit	Soft, black finely grained material, 0.2m thickness.	Natural coal deposit.
3021	Test pits	Deposit	Fractured yellow sandstone	Soft bedrock deposit above bedrock proper.

Photographic Register

Image No.	Print		Slide		Digital	Description	From	Date
	Film No.	Neg. No.	Film No.	Neg. No.				
3001	-	-	-	-	025	Pre-excavation shot, test pit one	NE	17/12/13
3002	-	-	-	-	026	Test pit one, topsoil strip	NE	17/12/13
3003	-	-	-	-	027	As above	NE	17/12/13
3004	-	-	-	-	028	Showing deposit (3020), test pit one	NE	17/12/13
3005	-	-	-	-	029	Showing bedrock (3019), test pit one	NE	17/12/13
3006	-	-	-	-	030	North-west facing oblique section, test pit one	NW	17/12/13
3007	-	-	-	-	031	South-west facing oblique section, test pit one	SW	17/12/13
3008	-	-	-	-	032	East facing section, test pit one	E	17/12/13
3009	-	-	-	-	033	Test pit two, topsoil strip	NE	17/12/13
3010	-	-	-	-	034	Mid-excavation shot of test pit two, showing bedrock (3019)	NE	17/12/13
3011	-	-	-	-	035	As above	NE	17/12/13
3012	-	-	-	-	036	Test pit two, showing bedrock at 1.4m depth	NE	17/12/13
3013	-	-	-	-	037	North-east facing section of test pit two	NE	17/12/13
3014	-	-	-	-	038	Test pit three, topsoil strip	E	17/12/13
3015	-	-	-	-	039	As above	E	17/12/13

3016	-	-	-	-	040	Mid-excavation shot, test pit three	E	17/12/13
3017	-	-	-	-	041	As above	W	17/12/13
3018	-	-	-	-	042	As above	W	17/12/13
3019	-	-	-	-	043	Base of test pit three	NW	17/12/13
3020	-	-	-	-	044	Test pit four, topsoil strip	NE	17/12/13
3021	-	-	-	-	045	Mid-excavation shot of test pit four	NE	17/12/13
3022	-	-	-	-	046	Base of test pit four	NE	17/12/13
3023	-	-	-	-	047	Topsoil strip, test pit 10	SW	07/01/14
3024	-	-	-	-	048	As above	SW	07/01/14
3025	-	-	-	-	049	Field drain [3006] in subsoil (3002)	SW	07/01/14
3026	-	-	-	-	050	As above	SW	07/01/14
3027	-	-	-	-	051	Mid-excavation shot of pit 10	SW	07/01/14
3028	-	-	-	-	052	As above	SW	07/01/14
3029	-	-	-	-	053	As above	SW	07/01/14
3030	-	-	-	-	054a	As above	SW	07/01/14
3031	-	-	-	-	054b	Base of test pit 10 showing bedrock (3019) at 2.7m	SW	07/01/14
3032 - 3042	-	-	-	-	VOID	VOID	VOID	VOID
3043	-	-	-	-	001	Topsoil strip, test pit five	NW	18/12/13
3044	-	-	-	-	002	Mid-excavation shot, test pit five	NW	18/12/13
3045	-	-	-	-	003	As above	NW	18/12/13
3046	-	-	-	-	004	Field drain [3004] in test pit five at 0.4m depth	SE	18/12/13
3047	-	-	-	-	005	Showing [3004] in north-facing section of test pit five	NW	18/12/13

3048	-	-	-	-	006	Mid-excavation shot of test pit five	NW	18/12/13
3049	-	-	-	-	007	Mid-excavation shot of test pit five	NW	18/12/13
3050	-	-	-	-	008	Base of test pit five	NW	18/12/13
3051	-	-	-	-	009	Topsoil strip, test pit six	NW	18/12/13
3052	-	-	-	-	010	Mid-excavation shot, test pit six	NW	18/12/13
3053	-	-	-	-	011	Base of test pit six, showing bedrock (3019) at 2.3m depth	NW	18/12/13
3054	-	-	-	-	012	Topsoil strip, test pit seven	W	18/12/13
3055	-	-	-	-	013	Mid-excavation shot of test pit seven, showing bedrock (3019)	W	18/12/13
3056	-	-	-	-	014	As above	W	18/12/13
3057	-	-	-	-	015	Base of test pit seven, showing bedrock (3019)	W	18/12/13
3058	-	-	-	-	016	Topsoil strip, test pit eight	S	18/12/13
3059	-	-	-	-	017	Mid-excavation shot, test pit eight	S	18/12/13
3060	-	-	-	-	018	Field drain [3004] in test pit eight	S	18/12/13
3061	-	-	-	-	019	Mid-excavation shot of test pit eight, showing bedrock (3019)	S	18/12/13
3062	-	-	-	-	020	Base of test pit eight, showing bedrock (3019)	S	18/12/13
3063	-	-	-	-	021	Topsoil strip, test pit nine	S	18/12/13
3064	-	-	-	-	022	Field drain [3004] in test pit nine	S	18/12/13
3065	-	-	-	-	023	As above	S	18/12/13
3066	-	-	-	-	024	Mid-excavation shot, test pit nine, showing bedrock at 2.3m depth	S	18/12/13
3067	-	-	-	-	025	Base of test pit nine, showing bedrock at 2.9m depth	S	18/12/13
3068 – 3080	-	-	-	-	VOID	VOID	VOID	VOID
3081	-	-	-	-	119	ID Shot	-	24/01/14
3082	-	-	-	-	120	Topsoil strip, test pit 11	SW	24/01/14

3083	-	-	-	-	121	Mid-excavation shot, test pit 11	SW	24/01/14
3084	-	-	-	-	122	Post-excavation shot, test pit 11	SW	24/01/14
3085	-	-	-	-	123	Topsoil strip, test pit 12	SW	24/01/14
3086	-	-	-	-	124	Mid-excavation shot, test pit 12	SW	24/01/14
3087	-	-	-	-	125	Post-excavation shot, test pit 12	SW	24/01/14
3088	-	-	-	-	126	Field drain [3006], test pit 13	SW	24/01/14
3089	-	-	-	-	127	Post-excavation shot, test pit 13	SW	24/01/14
3090	-	-	-	-	128	Topsoil strip, test pit 14	SW	24/01/14
3091	-	-	-	-	129	Field drain [3006], test pit 14	SW	24/01/14
3092	-	-	-	-	130	Post-excavation shot, test pit 14	SW	24/01/14
3093	-	-	-	-	131	Topsoil strip, test pit 15	SW	24/01/14
3094	-	-	-	-	132	Field drain [3004], post-excavation shot, test pit 15	SW	24/01/14
3095	-	-	-	-	133	Topsoil strip, test pit 16	NE	24/01/14
3096	-	-	-	-	134	Post-excavation shot, test pit 16	NE	24/01/14
3097 - 3100	-	-	-	-	VOID	VOID	VOID	VOID
3101	-	-	-	-	197	Haul road, topsoil strip	N	18/02/14
3102	-	-	-	-	198	As above, first 5m strip	NW	18/02/14
3103	-	-	-	-	199	Haul road strip, bioturbation in subsoil	V	18/02/14
3104	-	-	-	-	200	As above	SE	18/02/14
3105	-	-	-	-	201	Haul road strip, general shot	SW	18/02/14
3106	-	-	-	-	202	Haul road strip, field drain [3006]	V	18/02/14
3107	-	-	-	-	203	As above	V	18/02/14
3108	-	-	-	-	204	As above, zoomed in	V	18/02/14

3109	-	-	-	-	205	Mid-excavation shot, haul road strip	SW	18/02/14
3110	-	-	-	-	206	Haul road strip, field drain [3006]	V	18/02/14
3111	-	-	-	-	207	Mid-excavation shot, haul road strip	SW	18/02/14
3112	-	-	-	-	208	Mid-excavation shot, haul road strip, showing field drains [3006]	NE	19/02/14
3113	-	-	-	-	001	Location shot, drainage ditch excavation works	SW	07/03/14
3114	-	-	-	-	002	North-east facing section of drainage ditch	NE	07/03/14
3115	-	-	-	-	003	Mid-excavation shot, drainage ditch, first 5m	NW	07/03/14
3116	-	-	-	-	004	Working shot, drainage ditch	SE	07/03/14
3117	-	-	-	-	005	South-west facing section of drainage ditch, showing (3001) and (3008)	S	07/03/14
3118	-	-	-	-	006	Field drain [3009] in base of drainage ditch, 106m along ditch	S	07/03/14
3119	-	-	-	-	007	South facing section of drainage ditch, showing bedrock (3019) in base	S	07/03/14
3120	-	-	-	-	008	As above	S	07/03/14
3121	-	-	-	-	009	WSW facing section of drainage ditch	WSW	07/03/14
3122	-	-	-	-	010	As above	WSW	07/03/14
3123	-	-	-	-	011	General shot of drainage ditch	NE	07/03/14
3124	-	-	-	-	012	West facing section of drainage ditch	W	07/03/14
3125	-	-	-	-	VOID	VOID	VOID	VOID
3126	-	-	-	-	VOID	VOID	VOID	VOID
3127	-	-	-	-	013	South-west facing section [3011] (3012) (3013) and (3014)	SW	07/03/14
3128	-	-	-	-	VOID	VOID	VOID	07/03/14
3129	-	-	-	-	015	West facing section of drainage ditch, showing feature [011]	SW	07/03/14
3130	-	-	-	-	016	General shot of drainage ditch excavation	SE	07/03/14
3131	-	-	-	-	001	General shot of drainage trench (northern extent)	SE	10/03/14

3132	-	-	-	-	002	As above	WSW	10/03/14
3133	-	-	-	-	003	General shot of drainage trench (southern extent)	W	10/03/14
3134	-	-	-	-	004	As above	E	10/03/14
3135	-	-	-	-	005	General shot, drainage ditch	N	11/03/14
3136	-	-	-	-	006	Variation in natural clay subsoil (3002)	N	11/03/14
3137	-	-	-	-	007	General shot, drainage ditch	SE	11/03/14
3138	-	-	-	-	008	As above	SE	11/03/14
3139	-	-	-	-	009	Drainage ditch cut into bedrock (3019)	NW	11/03/14
3140	-	-	-	-	010	Haul road strip, general shot	NW	12/03/14
3141	-	-	-	-	011	As above	S	12/03/14
3142	-	-	-	-	012	Haul road strip, working shot	NW	12/03/14
3143	-	-	-	-	013	Field drain [3006], haul road strip	V	12/03/14
3144	-	-	-	-	014	Haul road strip, working shot	S	12/03/14
3145	-	-	-	-	015	Detail of field drains [3006], haul road strip	S	12/03/14
3146	-	-	-	-	016	Haul road strip, working shot	N	12/03/14
3147	-	-	-	-	017	General shot, haul road	N	12/03/14
3148	-	-	-	-	018	Haul road strip, working shot	S	12/03/14
3149	-	-	-	-	019	General shot, drainage ditch	N	13/03/14
3150	-	-	-	-	020	General shot, haul road strip	N	13/03/14
3151	-	-	-	-	021	As above	NW	13/03/14
3152	-	-	-	-	022	Pre-excavation shot of deposit (3015)	W	13/03/14
3153	-	-	-	-	023	Post-excavation shot of bioturbation (3016)	S	13/03/14
3154	-	-	-	-	024	Post-excavation shot of deposit (3015)	N	13/03/14

3155	-	-	-	-	025	General shot, haul road strip	SW	14/03/14
3156	-	-	-	-	026	As above	N	14/03/14
3157	-	-	-	-	027	Working shot, haul road strip	NW	14/03/14
3158	-	-	-	-	028	Field drain [3006], haul road strip	V	14/03/14
3159	-	-	-	-	029	General shot, field drain [3006], haul road strip	S	14/03/14
3160	-	-	-	-	030	General shot, haul road strip	N	17/03/14
3161	-	-	-	-	031	Field drain [3004], haul road strip	E	17/03/14
3162	-	-	-	-	032	General shot, trench at west side of Converter Station field	E	18/03/14
3163	-	-	-	-	033	Field drain [3006], within trench	E	18/03/14
3164	-	-	-	-	034	Rubble drain [3006] cut into linear feature [3017]	E	18/03/14
3165	-	-	-	-	035	General shot of trench	W	18/03/14
3166	-	-	-	-	036	General shot, linear [017]	E	18/03/14
3167	-	-	-	-	037	As above	N	18/03/14
3168	-	-	-	-	038	General shot, haul road strip	SW	18/03/14
3169	-	-	-	-	039	As above	SW	18/03/14
3170	-	-	-	-	040	Slot of slot through linear feature [3017]	N	18/03/14
3171	-	-	-	-	041	As above	E	18/03/14
3172	-	-	-	-	042	General shot of slot through [3017]	W	18/03/14
3173	-	-	-	-	043	As above, zoomed in	W	18/03/14
3174	-	-	-	-	044	As above	SW	18/03/14
3175	-	-	-	-	045	Shot of slot through [3017]	E	18/03/14
3176	-	-	-	-	046	As above	E	18/03/14
3177	-	-	-	-	047	As above	SE	18/03/14

3178	-	-	-	-	048	General shot, haul road strip, south end of Converter Station field	N	18/03/14
3179	-	-	-	-	049	As above	N	18/03/14
3180	-	-	-	-	050	Field drain [3006], haul road strip	W	18/03/14
3181	-	-	-	-	051	General shot, haul road strip, south end of Converter Station field	N	18/03/14

Area Four

Context Register

Context No.	Area/Trench	Type	Description	Interpretation
4001	Area 4	Deposit	Loose, dark grey/brown silty clay, 0.3m to 0.5m thickness. Covers whole area.	Topsoil.
4002	Area 4	Deposit	Firm, mid brown/orange silty clay, 0.4m to 0.8m thickness with frequent small to large stones, rare modern red bricks and red brick fragments and rare modern wood pieces.	Colluvial (hillwash) deposit.
4003	Area 4	Deposit	Firm, dark brown clayey silt, 0.2 to 0.4m thickness, no visible inclusions.	Possible buried topsoil deposit.
4004	Area 4	Deposit	Solid, greyish pink sandstone, extends over whole area, rising to the north, 0.1m thickness as excavated.	Natural bedrock.
4005	Area 4	Deposit	Loose, mid orange, small to medium stones in silty clay matrix, 0.8m maximum thickness.	Natural subsoil.
4006	Area 4	Cut/fill	Linear dry stone wall, orientated WSW to ENE. 10 courses high, ranging in width from 0.4m to 0.6m. Cut into deposit (4002), at 0.15m depth, two further courses exposed below level of topsoil (4001).	Cut and fill of dry stone wall [4006].

Finds Register

Find No.	Area/Trench	Context no.	Material Type	Description	Excavator	Date
4001	Area 4	4001	Glass	Glass bottle ('Ross's STAMP) x 1	SP	03/02/14
4002	Area 4	4001	Glass	Glass bottle (green) x 1	SP	03/02/14

Photographic Register

Image No.	Print		Slide		Digital	Description	From	Date
	Film No.	Neg. No.	Film No.	Neg. No.				
4001	-	-	-	-	104	Pre-excavation shot of Area four	SW	03/02/14
4002	-	-	-	-	105	As above	N	03/02/14
4003	-	-	-	-	106	General shot, dry stone wall [4006]	SW	03/02/14
4004	-	-	-	-	107	Mid-excavation shot, removal of tree stump	N	03/02/14
4005	-	-	-	-	108	As above	N	03/02/14
4006	-	-	-	-	109	General shot, tree stumps and wall [4006]	N	03/02/14
4007	-	-	-	-	110	Removal of tree stump	N	03/02/14
4008	-	-	-	-	111	Removal of topsoil (4001), showing deposit (4002) below	N	03/02/14
4009	-	-	-	-	112	Deposit (4002) below wall [4006]	N	03/02/14
4010	-	-	-	-	113	Lower coursing of [4006] within deposit (4002) (zoomed in)	N	03/02/14
4011	-	-	-	-	114	As above	N	03/02/14
4012	-	-	-	-	115	General shot, topsoil (4001) removed	N	03/02/14
4013	-	-	-	-	116	Lower coursing of [3006]	V	03/02/14
4014	-	-	-	-	117	General shot, topsoil (4001) removed, deposit (4002) below	N	03/02/14
4015	-	-	-	-	118	North-west facing section of pipe trench, showing (4001), (4002) and (4003)	NW	04/03/14
4016	-	-	-	-	119	South-east facing section of pipe trench, showing (4001), (4002), (4003) and (4005)	SE	04/03/14
4017	-	-	-	-	120	Pipe trench, backfilled	NW	04/03/14
4018	-	-	-	-	121	Lower coursing [3006]	V	04/03/14

4019	-	-	-	-	122	As above, zoomed in	V	04/03/14
4020	-	-	-	-	123	As above	V	04/03/14
4021	-	-	-	-	124	Detail of cut for wall [3006] within deposit (3002)	V	04/03/14
4022	-	-	-	-	125	Working shot, stripping of area	SW	04/03/14
4023	-	-	-	-	126	General of removal of topsoil (4001), showing cut and lower coursing of [3006]	NW	04/03/14
4024	-	-	-	-	127	As above	NW	04/03/14
4025	-	-	-	-	128	As above, zoomed in	NW	04/03/14
4026	-	-	-	-	129	As above	WNW	04/03/14
4027	-	-	-	-	130	General shot, removal of topsoil (4001)	NW	04/03/14
4028	-	-	-	-	131	Exposed electricity cable brick within deposit (4002)	NW	04/03/14
4029	-	-	-	-	132	As above, zoomed in	NW	04/03/14
4030	-	-	-	-	133	General shot, showing deposit (4003) within pipe trench excavation	NE	04/03/14
4031	-	-	-	-	134	Bedrock (4004) within base of pipe trench excavation	NE	04/03/14
4032	-	-	-	-	135	As above	NE	04/03/14
4033	-	-	-	-	136	As above	NE	04/03/14
4034	-	-	-	-	137	Working shot, excavation of pipe trench	W	05/02/14
4035	-	-	-	-	138	General shot of small wall outside excavation area	NE	05/03/14
4036	-	-	-	-	139	General shot of wall [4006], outside excavation area	NW	05/03/14
4037	-	-	-	-	140	Continuation of wall [4006] to the south-west	NE	05/03/14
4038	-	-	-	-	141	General working shot	NW	05/03/14
4039	-	-	-	-	142	Working shot, pipe trench excavation	WSW	05/02/14
4040	-	-	-	-	152	General shot, removal of topsoil (4001) within man-hole area	S	10/02/14

4041	-	-	-	-	153	As above, zoomed in	S	10/02/14
4042	-	-	-	-	154	Removal of topsoil (4001), showing deposit (4002) below	S	10/02/14
4043	-	-	-	-	155	As above, showing cut for [4006] in deposit (4002)	S	10/02/14
4044	-	-	-	-	156	As above, shows lower courses	S	10/02/14
4045	-	-	-	-	157	As above	S	10/02/14
4046	-	-	-	-	158	As above	S	10/02/14
4047	-	-	-	-	159	General shot showing deposit (4003) below deposit (4002)	S	10/02/14
4048	-	-	-	-	160	As above, zoomed in	S	10/02/14
4049	-	-	-	-	161	Working shot, stripping within man-hole area	S	10/02/14
4050	-	-	-	-	162	As above	S	10/02/14
4051	-	-	-	-	163	As above, zoomed in, showing lower coursing of [4006]	S	10/02/14
4052	-	-	-	-	164	As above, zoomed in	S	10/02/14
4053	-	-	-	-	165	As above	S	10/02/14
4054	-	-	-	-	166	Bedrock (4004) within man-hole excavation	S	10/02/14
4055	-	-	-	-	167	As above	S	10/02/14
4056	-	-	-	-	168	As above, zoomed in	S	10/02/14
4057	-	-	-	-	169	Post-excavation shot, pipe trench excavation	S	10/02/14

Appendix 2: Discovery & Excavation in Scotland

LOCAL AUTHORITY:	North Ayrshire
PROJECT TITLE/SITE NAME:	Hunterston Converter and Substation
PROJECT CODE:	RA12026
PARISH:	West Kilbride
NAME OF CONTRIBUTOR:	Diane Gorman
NAME OF ORGANISATION:	Rathmell Archaeology Limited
TYPE(S) OF PROJECT:	Archaeological Monitoring
NMRS NO(S):	NA
SITE/MONUMENT TYPE(S):	NA
SIGNIFICANT FINDS:	None
NGR (2 letters, 8 or 10 figures)	NS 1834 5093
START DATE (this season)	21 st August 2013
END DATE (this season)	18 th March 2014
PREVIOUS WORK (incl. DES ref.)	<p>This is part of a series of reports detailing works carried out in conjunction with the Archaeological Monitoring. These reports are as follows;</p> <p>Gordon 2013 <i>Hunterston Converter & Substation, West Kilbride, North Ayrshire: Archaeological Mitigation Data Structure Report</i> unpublished commercial document by Rathmell Archaeology Ltd;</p> <p>Gordon 2013 <i>Hunterston Converter & Substation, West Kilbride, North Ayrshire: Archaeological Evaluation Data Structure Report: Addendum</i> unpublished commercial document by Rathmell Archaeology Ltd;</p> <p>Gordon & Turner 2014 <i>Hunterston Converter & Substation, West Kilbride, North Ayrshire: Archaeological Evaluation Data Structure Report: 2nd Addendum</i> unpublished commercial document by Rathmell Archaeology Ltd;</p> <p>Gordon 2014 <i>Hunterston Converter & Substation, West Kilbride, North Ayrshire: Archaeological Mitigation Area A Data Structure Report</i> unpublished commercial report by Rathmell Archaeology Ltd;</p> <p>Gorman & Sludden 2014 <i>Hunterston Converter & Substation, West Kilbride, North Ayrshire: Archaeological Mitigation Area D Data Structure Report</i> unpublished commercial report by Rathmell Archaeology Ltd;</p> <p>Gorman & Sludden 2014 <i>Hunterston Converter & Substation, West Kilbride, North Ayrshire: Strip Map Sample Data Structure Report</i> unpublished commercial report by Rathmell Archaeology Ltd;</p> <p>Gorman & Gordon 2014 <i>Hunterston Converter and Substation, West Kilbride, North Ayrshire: Area B Data Structure Report</i> unpublished commercial report by Rathmell Archaeology Ltd.</p>
MAIN (NARRATIVE) DESCRIPTION: (may include information from other fields)	<p>A programme of archaeological mitigation works was required by RSK Environment Ltd on behalf of their clients in respect of the construction of the Hunterston Converter and Substation, West Kilbride, North Ayrshire (N/11/00708/PPPM). The archaeological works were designed to determine the archaeological potential of the development area and hence inform the specification for mitigation of the impact on the archaeological remains within the development area.</p> <p>The works consisted of Strip, map and sample exercises, evaluation and monitoring. The results of these works are presented in a series of technical reports by Rathmell Archaeology Ltd.</p>

	<p>The monitoring works were carried out the ground breaking works associated with the drainage for the Converter Station, as well as any other additional ground breaking works within ground not previously investigated</p> <p>During the course of the monitoring works no significant archaeological features or material were exposed or recovered. The features and materials exposed relate to 19th and 20th century use of the land.</p>
PROPOSED FUTURE WORK:	None
CAPTION(S) FOR ILLUSTRS:	None
SPONSOR OR FUNDING BODY:	RSK Environment Ltd
ADDRESS OF MAIN CONTRIBUTOR:	Unit 8 Ashgrove Workshops, Kilwinning, Ayrshire KA13 6PU
E MAIL:	contact@rathmell-arch.co.uk
ARCHIVE LOCATION (intended/deposited)	Report to West of Scotland Archaeology Service and archive to RCAHMS Collections

Contact Details

81. Rathmell Archaeology can be contacted at our Registered Office or through the web:
- | | |
|---------------------------|--|
| Rathmell Archaeology Ltd | www.rsk.co.uk |
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| KA13 6PU | e.: contact@rathmell-arch.co.uk |
82. RSK Environment Ltd can be contacted:
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|---------------------|--|
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83. The West of Scotland Archaeology Service can be contacted at their office or through the web:
- | | |
|--------------------------------------|--|
| West of Scotland Archaeology Service | www.wosas.org.uk |
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