

# CFA Archaeology Ltd

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*Field Evaluation & Excavation*

*Historic Building Recording*

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*Geophysical Survey*

**Greenburn OCCS  
Braehead Farm Extension  
New Cumnock, East Ayrshire**

**Archaeological Evaluation**

**Report No. 2019**

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# **1 INTRODUCTION**

## **1.1 General**

This report presents the results of an archaeological evaluation undertaken by CFA Archaeology Ltd (CFA) in January and February 2012 at Greenburn Opencast Coal Extraction Site (Braehead Farm Extension), near New Cumnock, East Ayrshire (NGR: NS 5758 1319 centred) (Fig. 1). The work was commissioned by KIER Mining.

A Written Scheme of Investigation (WSI) dated 10 June 2011 covering this programme of works was produced by CFA on behalf of KIER Mining. This WSI was designed to meet the requirements of the West of Scotland Archaeology Service (WoSAS).

## **1.2 Background**

Planning consent (Ref No. 10/0491/PP) has been granted for the recovery of coal using surface mining techniques at Braehead Farm, near New Cumnock. The planning consent was subject to a condition requiring a programme of archaeological mitigation. Phase 1 of this programme of works involved a phased trial trench evaluation and a watching brief during the excavation of watercourse realignment and flood plain creation works on the River Nith.

The part of the programme of works covered by this report consisted of the archaeological evaluation of eight areas (Area 1 – Area 8) highlighted on Fig.1. Previous work relating to the Stage 1 programme of works included the evaluation of the Haul Road and Detention Ponds BD2 and BD3 (Kirby 2011) (Fig. 1), and the watching brief during the realignment of the River Nith (Mitchell 2011) (Fig.1). Both were carried out by CFA in July 2011. A separate standing building survey of Riggfoot Farm was carried out in December 2011 prior to demolition (Mitchell 2011).

A cultural heritage study undertaken by CFA for the Environmental Statement (ES) identified twenty cultural heritage sites within the proposed development area. The majority of these relate to post-medieval agricultural activity.

## **1.3 Objectives**

The objectives the programme of works reported herein were to enable infrastructure development in advance of developing the rest of the site by:

- Carrying out trial trenching evaluations within defined areas;
- To establish the presence/ absence, extent, condition, character, quality and date of any archaeological features or deposits within the evaluation areas;
- To establish their vulnerability to the proposed development;
- To produce report(s) outlining the results of the work and any further work that is required to mitigate the effects of the development.

## **2. WORKING METHODS**

### **2.1 General**

CFA Archaeology Ltd follows the Institute for Archaeologists' Code of Conduct, Standards and Guidance.

### **2.2 Evaluation**

A total of 260 trenches were excavated within Area 1 – Area 8, amounting to 24996m<sup>2</sup> (5.033% of the evaluation areas). A breakdown of each area is contained in Appendix 3 and a summary of the trenches excavated is contained in Appendix 4.

Topsoil and modern overburden were removed by two tracked 360° mechanical excavators, both equipped with 2m wide smooth-bladed ditching buckets. All groundbreaking work was carried out under constant archaeological supervision. Any further excavation required to fulfil the objectives of the evaluation was carried out by hand.

All excavation and on-site recording was carried out according to standard CFA procedures, principally by drawing, by photography and by completing standard CFA record forms.

The stratification of all excavated areas was recorded whether or not significant archaeological deposits were identified.

Trench positions were surveyed using industry standard electronic surveying equipment and all trenches were backfilled.

### 3. ARCHAEOLOGICAL RESULTS

Numbers in bold refer to contexts, a full list of which are contained in Appendix 2. A summary of the trenches excavated is contained in Appendix 4.

Within the evaluation areas there were a few limiting factors which affected the locations available for trial trenching; deep peat towards the south-west and north-west end of Area 1 and the south-west part of Area 2 (Fig.1). Further limitation on the locations of trial trenches included overhead power cables and underground water pipes within Area 1 and a large soil bund to the north of the river Nith within Area 8 (Fig.1).

The deposits throughout the proposed development areas predominantly consisted of 0.2m to 0.4m of grey-brown silt topsoil (**001**) overlying orange-brown sandy clay natural (**002**) (Fig. 3). The topsoil was considerably waterlogged reflecting the poorly draining nature of the underlying subsoil. Deeper peat deposits (**003**) with depths of up to 2m and greater were identified underlying the topsoil within a number of areas, predominantly at the south-western end of Area 1, the north-western end of Area 1 and the south-eastern end of Area 2. There were also a number of areas of deeper silty clay and sandy clay deposits (**004**), predominantly within the flood plain of the River Nith within Area 3 and parts of Areas 1, 7 and 8. A full list of the trenches containing deposits **003** and **004** is contained within the context list.

Field drains of the ceramic cylinder type and the ceramic horseshoe type were identified throughout the area evaluated. In a number of areas, notably within the fields immediately to the south of Riggfoot Farm, cylinder drains and horseshoe drains were situated within close proximity to each other indicating two separate phases of drainage. The number of field drains present indicates that the area was extensively improved during the 19<sup>th</sup>/20<sup>th</sup> century.

No new features, deposits or artefacts of archaeological significance were identified in the trenches, but evaluation was undertaken on three sites identified in the ES (Site 12, Site 5 and Site 6). Site 12 (Area 2) consisted of a row of cottages annotated Miners Row depicted on the 1910 Edition Ordnance Survey map, Site 6 (Area 6) consisted of a building depicted on the Ordnance Survey 2<sup>nd</sup> Edition (1896) annotated Shiel and Site 5 (Area 5) consisted of a structure also annotated Shiel and depicted on the 1<sup>st</sup> Edition Ordnance Survey map (1860). Site 12 and Site 6 were identified and evaluated but Site 5 was not identified. However, field survey identified the remains of a structure located circa midway between Area 4 and Area 6 and it is considered that this may be Site 5 which had been located incorrectly. This structure was not evaluated as it lay outwith the Phase 1 evaluation areas but its location was recorded and field notes were taken. For the purposes of this report it has been identified as Site 5A. Details of Site 12, Site 6 and Site 5A are contained within the following section.

#### *Site 12 (Trenches 190, 191, 192 and 198)*

Site 12 was located at the southern end of Area 2. It consisted of a row of demolished cottages (Fig.2) measuring 58m north to south by 12.3m east to west overall, with five small annexes along the eastern wall, each measuring 6m north to south by 3m east to west (cottages measure 9.3m wide excluding the width of the annexes). The row

appears to have consisted of 10 conjoined cottages, with each cottage being a mirror image of the adjoining one. Internally, each cottage contained two rooms measuring c.5.4m by 5m and 5.4m by c.3m respectively and an annexe room measuring 2.7m by 2.7m. This gave each cottage an internal floor space of c. 50.5m<sup>2</sup>.

The foundations (**005**) were constructed from blocks of rough dressed sandstone, which sat directly on top of the natural subsoil and stood to a height of 0.65m. The stone foundations which were 0.5m wide, supported the remains of brick built walls (**006**) (Fig.5). These stood two courses high and were constructed from bricks stamped 'LANEMARK' produced at the local Lanemark brickworks. The external walls were three bricks wide (c. 0.37m) and the internal walls were 2 bricks wide (c. 0.25m). Around the edges of the foundations, the fragmentary remains of concrete floors (**007**) were present. The concrete was c. 0.1m thick and had been laid on top of made ground contained within the foundations.

The annexes (Fig.4 and Fig. 6) along the eastern edge of the row were of much less substantial construction, with foundations consisting of a single course of sandstone topped by six courses of brick (**008**). The concrete floors (**009**) of the annexes were still largely intact, and supported brick built walls (**010**) measuring c.0.25m wide. Within one corner of each annexe room along the back wall was a brick structure (**011**) (Fig.7) with an elliptical front, which may have been the remains of a fireplace.

Trench 198 was excavated roughly parallel with Miners Row on the eastern side. It contained a brick surface (**012**) constructed from Lanemark bricks and a small rubbish dump. The rubbish dump mainly contained glass and bottles dating to the early 20<sup>th</sup> century.

#### *Site 6 (Trenches 212, 213 and 215)*

Site 6 was located on the western edge of Area 6. It consisted of the remains of a building (Fig.3 and Fig.11) measuring 15.3m north to south by 6.8m east to west. The foundations consisted of a single course of rough sandstone blocks (**013**) (Fig.9). Where the foundations were exposed on the western and eastern side of the building, they sat directly on top of the natural subsoil, but at the southern end, on the upslope side, they sat within a foundation cut (**015**) with a depth of 0.15m. The foundations supported rough dressed sandstone walls (**014**), which were 0.5m thick and upstanding to a height of c. 0.6m above the level of the natural.

Within the interior of the building, floor levels (Fig.10) were uncovered sitting c.0.5m above the natural subsoil. These consisted of concrete (**016**, **019** and **020**), brick (**017**) and slab (**018**) surfaces. The concrete surface (**020**) at the southern end of the building was set 0.15m higher than the rest of the exposed floor surfaces. A number of interior walls were identified. These were of brick construction and consisted of a single brick width standing to a single course in height.

#### *Site 5/5A*

Site 5 was not identified within the location indicated on the ES. This area (Area 5) was situated next to the Shiel Burn and consisted of steeply sloping semi-improved grass/bog. Vestigial traces of east to west aligned rig and furrow cultivation was

identified running up and down the slope (Fig.8). The rig and furrow measured 4.5m crest to crest and was upstanding to a height of <0.1m. Trench 206 was located to target the rig and furrow, but no furrows were identified cut into the natural subsoil.

#### *Site 5A*

Site 5A (Fig.12 and Fig.13) was identified lying outwith the evaluation area and was only subject to basic non-invasive field survey. It consisted of a rectangular two compartment structure built against the existing field boundary. The site survived as low turf covered walls measuring between 1m and 2m wide by 0.2m high. Overall, it measured 15m east to west by 7m north to south.

## **4. CONCLUSIONS**

An archaeological evaluation was carried out at Greenburn Opencast Coal Extraction Site (Braehead Farm Extension), near New Cumnock. This part of the programme of works consisted of the remainder of the Phase 1 evaluation and watching brief works, the first stages of which were undertaken by CFA in July 2011 (Kirby 2011 and Mitchell 2011).

This stage of evaluation did not identify any features deposits or artefacts of archaeological significance, but two sites (Site 12 and Site 6) identified within the ES were subject to evaluation. These consisted of a row of miner's cottages (Site 12) and another domestic structure (Site 6). A third site (Site 5) in the ES was not identified within the location specified but this may have been located further to the west (Site 5A).

Overall 28,336m<sup>2</sup> of trial trenches have been excavated. This amounts to c.2.44% of the total area that will be disturbed during the extraction programme in this extension area. A further 12,639m<sup>2</sup> was monitored by watching brief. No archaeological features or deposits outside of previously identified sites have been located during these works.

No further works are recommended in relation to Sites 12 and 6. Site 5A lies within an area allocated for topsoil storage and it is recommended that evaluation of this site is undertaken in the first instance. Evaluation under the footprint of Riggfoot Farm is also required and a trench plan for this will be agreed with WoSAS in advance. It is recognised that the final decision on what mitigation will be required lies with the planning authority as advised by WoSAS.

The project archive, comprising all CFA record sheets, maps and reports, will be deposited with the National Monuments Record of Scotland (NMRS) and copies of reports will be lodged with the WoSAS Sites and Monuments Record.

On completion of the mitigation works a summary statement will be submitted for publication in *Discovery and Excavation in Scotland* and will also be reported on through *OASIS Scotland*.



## 5. REFERENCES

Kirby, M, 2011 *Greenburn OCCS Braehead Farm Extension New Cumnock, East Ayrshire Archaeological Evaluation*, Unpublished CFA Technical Report 1927

Mitchell, S, 2011 *Greenburn OCCS, River Nith Diversionary Works, Dalricket, New Cumnock, East Ayrshire, Archaeological Watching Brief and Evaluation*, Unpublished CFA Technical Report 1931

Mitchell, S, 2011 *Riggfoot Farm, Dalricket, New Cumnock, East Ayrshire, Desk-Based Assessment and Standing Building Survey*. Unpublished CFA Technical Report 1933

## APPENDIX 1: Photographic Register

### *Digital*

| Shot | Description                     | From | Conditions |
|------|---------------------------------|------|------------|
| 1    | Trench 1, general shot          | W    | Overcast   |
| 2    | Trench 2, general shot          | W    | Overcast   |
| 3    | Trench 3, general shot          | SW   | Overcast   |
| 4    | Trench 4, general shot          | NW   | Overcast   |
| 5    | Trench 5, general shot          | W    | Sun        |
| 6    | Trench 6, general shot          | SW   | Overcast   |
| 7    | Trench 7, general shot          | NW   | Overcast   |
| 8    | Trench 8, general shot          | SW   | Overcast   |
| 9    | Trench 9, general shot          | SW   | Overcast   |
| 10   | Trench 10, general shot         | SW   | Overcast   |
| 11   | Close up on brick stamp 'Afton' | -    | -          |
| 12   | Trench 11, general shot         | NE   | Overcast   |
| 13   | Trench 12, general shot         | NE   | Overcast   |
| 14   | Trench 13, general shot         | S    | Overcast   |
| 15   | Trench 14, general shot         | S    | Overcast   |
| 16   | Trench 15, general shot         | SW   | Overcast   |
| 17   | Trench 16, general shot         | SW   | Overcast   |
| 18   | Trench 17, general shot         | SW   | Overcast   |
| 19   | Trench 18, general shot         | NW   | Overcast   |
| 20   | Trench 19, general shot         | SW   | Overcast   |
| 21   | Trench 20, general shot         | SW   | Overcast   |
| 22   | Trench 21, general shot         | SW   | Rain       |
| 23   | Trench 22, general shot         | N    | Rain       |
| 24   | Trench 23, general shot         | NE   | Overcast   |
| 25   | Trench 24, general shot         | NE   | Overcast   |
| 26   | Trench 25, general shot         | S    | Overcast   |
| 27   | Trench 26, general shot         | SW   | Overcast   |
| 28   | Trench 27, general shot         | SW   | Overcast   |
| 29   | Trench 28, general shot         | SW   | Overcast   |
| 30   | Trench 29, general shot         | SW   | Overcast   |
| 31   | Trench 30, general shot         | SW   | Overcast   |
| 32   | Trench 31, general shot         | SW   | Overcast   |
| 33   | Trench 32, general shot         | N    | Overcast   |
| 34   | Trench 33, general shot         | W    | Overcast   |
| 35   | Trench 34, general shot         | W    | Overcast   |
| 36   | Trench 35, general shot         | W    | Sun        |
| 37   | Trench 36, general shot         | W    | Sun        |
| 38   | Trench 37, general shot         | W    | Overcast   |
| 39   | Trench 38, general shot         | W    | Overcast   |
| 40   | Trench 39, general shot         | SE   | Overcast   |
| 41   | Trench 40, general shot         | NNW  | Rain       |
| 42   | Trench 41, general shot         | W    | Rain       |
| 43   | Trench 42, general shot         | SSE  | Rain       |
| 44   | Trench 43, general shot         | W    | Overcast   |
| 45   | Trench 44, general shot         | W    | Overcast   |
| 46   | Trench 45, general shot         | SW   | Rain       |
| 47   | Trench 46, general shot         | SW   | Rain       |
| 48   | Trench 47, general shot         | SE   | Rain       |
| 49   | Trench 48, general shot         | SW   | Rain       |
| 50   | Trench 49, general shot         | SW   | Rain       |
| 51   | Trench 50, general shot         | SW   | Rain       |
| 52   | Trench 51, general shot         | SE   | Rain       |

|     |                                   |    |          |
|-----|-----------------------------------|----|----------|
| 53  | Trench 52, general shot           | SE | Rain     |
| 54  | Trench 53, general shot           | SE | Rain     |
| 55  | Trench 54, general shot           | SE | Rain     |
| 56  | Trench 55, general shot           | SW | Sun      |
| 57  | Trench 56, general shot           | SW | Sun      |
| 58  | Trench 57, general shot           | SW | Rain     |
| 59  | Trench 58, general shot           | NE | Rain     |
| 60  | Trench 59, general shot           | NW | Sun      |
| 61  | Trench 60, general shot           | NW | Sun      |
| 62  | Trench 61, general shot           | SE | Sun      |
| 63  | Trench 62, general shot           | SE | Sun      |
| 64  | Trench 63, general shot           | SE | Sun      |
| 65  | Trench 63, close-up peat deposits | SE | Sun      |
| 66  | Trench 64, general shot           | SW | Overcast |
| 67  | Trench 65, general shot           | SE | Overcast |
| 68  | Trench 65, close-up peat deposits | SE | Overcast |
| 69  | Trench 66, general shot           | SW | Overcast |
| 70  | Trench 67, general shot           | SW | Sun      |
| 71  | Trench 68, general shot           | SW | Sun      |
| 72  | Trench 69, general shot           | NW | Overcast |
| 73  | Trench 70, general shot           | NW | Overcast |
| 74  | Trench 71, general shot           | SW | Overcast |
| 75  | Trench 72, shot of depth of peat  | W  | Overcast |
| 76  | Trench 72, general shot           | NW | Overcast |
| 77  | Trench 73, general shot           | NW | Overcast |
| 78  | Trench 74, general shot           | SW | Overcast |
| 79  | Trench 75, general shot           | SW | Rain     |
| 80  | Trench 76, general shot           | SW | Rain     |
| 81  | Trench 77, general shot           | NW | Rain     |
| 82  | Trench 78, general shot           | W  | Rain     |
| 83  | Trench 79, general shot           | W  | Rain     |
| 84  | Trench 80, general shot           | W  | Overcast |
| 85  | Trench 81, general shot           | W  | Overcast |
| 86  | Trench 82, general shot           | W  | Overcast |
| 87  | Trench 83, general shot           | SE | Overcast |
| 88  | Trench 84, general shot           | W  | Overcast |
| 89  | Trench 85, general shot           | N  | Overcast |
| 90  | Trench 86, general shot           | W  | Overcast |
| 91  | Trench 87, general shot           | W  | Overcast |
| 92  | Trench 88, general shot           | S  | Overcast |
| 93  | Trench 89, general shot           | NW | Overcast |
| 94  | Trench 90, general shot           | W  | Rain     |
| 95  | Trench 91, general shot           | NE | Rain     |
| 96  | Trench 92, general shot           | E  | Rain     |
| 97  | Trench 93, general shot           | E  | Rain     |
| 98  | Trench 94, general shot           | E  | Rain     |
| 99  | Trench 95, general shot           | N  | Overcast |
| 100 | Trench 96, general shot           | E  | Overcast |
| 101 | Trench 97, general shot           | E  | Overcast |
| 102 | Trench 98, general shot           | E  | Overcast |
| 103 | Trench 99, general shot           | N  | Rain     |
| 104 | Trench 100, general shot          | N  | Overcast |
| 105 | Trench 101, general shot          | S  | Overcast |
| 106 | Trench 102, general shot          | E  | Overcast |
| 107 | Trench 103, general shot          | E  | Rain     |
| 108 | Trench 104, general shot          | E  | Rain     |
| 109 | Trench 105, general shot          | E  | Snow     |
| 110 | Trench 106, general shot          | E  | Snow     |

|     |                          |    |          |
|-----|--------------------------|----|----------|
| 111 | Trench 107, general shot | E  | Snow     |
| 112 | Trench 108, general shot | E  | Snow     |
| 113 | Trench 109, general shot | E  | Snow     |
| 114 | Trench 110, general shot | E  | Snow     |
| 115 | Trench 111, general shot | N  | Snow     |
| 116 | Trench 112, general shot | N  | Snow     |
| 117 | Trench 113, general shot | N  | Snow     |
| 118 | Trench 114, general shot | N  | Snow     |
| 119 | Trench 115, general shot | N  | Snow     |
| 120 | Trench 116, general shot | NW | Snow     |
| 121 | Trench 117, general shot | E  | Snow     |
| 122 | Trench 118, general shot | E  | Snow     |
| 123 | Trench 119, general shot | E  | Snow     |
| 124 | Trench 120, general shot | N  | Overcast |
| 125 | Trench 121, general shot | N  | Overcast |
| 126 | Trench 122, general shot | N  | Overcast |
| 127 | Trench 123, general shot | N  | Overcast |
| 128 | Trench 124, general shot | W  | Sun      |
| 129 | Trench 125, general shot | NW | Sun      |
| 130 | Trench 126, general shot | W  | Sun      |
| 131 | Trench 127, general shot | S  | Sun      |
| 132 | Trench 128, general shot | W  | Sun      |
| 133 | Trench 129, general shot | W  | Sun      |
| 134 | Trench 130, general shot | W  | Sun      |
| 135 | Trench 131, general shot | N  | Sun      |
| 136 | Trench 132, general shot | W  | Sun      |
| 137 | Trench 133, general shot | SW | Sun      |
| 138 | Trench 134, general shot | SW | Sun      |
| 139 | Trench 135, general shot | N  | Sun      |
| 140 | Trench 136, general shot | N  | Sun      |
| 141 | Trench 137, general shot | NW | Sun      |
| 142 | Trench 138, general shot | NE | Sun      |
| 143 | Trench 139, general shot | E  | Sun      |
| 144 | Trench 140, general shot | SW | Overcast |
| 145 | Trench 141, general shot | SW | Overcast |
| 146 | Trench 142, general shot | SW | Overcast |
| 147 | Trench 143, general shot | SW | Overcast |
| 148 | Trench 144, general shot | W  | Overcast |
| 149 | Trench 145, general shot | E  | Overcast |
| 150 | Trench 146, general shot | SW | Overcast |
| 151 | Trench 147, general shot | SW | Overcast |
| 152 | Trench 148, general shot | SW | Overcast |
| 153 | Trench 149, general shot | SW | Overcast |
| 154 | Trench 150, general shot | SW | Overcast |
| 155 | Trench 151, general shot | SE | Overcast |
| 156 | Trench 152, general shot | S  | Rain     |
| 157 | Trench 153, general shot | S  | Overcast |
| 158 | Trench 154, general shot | N  | Overcast |
| 159 | Trench 155, general shot | N  | Overcast |
| 160 | Trench 156, general shot | S  | Overcast |
| 161 | Trench 157, general shot | N  | Overcast |
| 162 | Trench 158, general shot | E  | Overcast |
| 163 | Trench 159, general shot | NE | Overcast |
| 164 | Trench 160, general shot | N  | Overcast |
| 165 | Trench 161, general shot | NE | Overcast |
| 166 | Trench 162, general shot | NE | Overcast |
| 167 | Trench 163, general shot | NE | Overcast |
| 168 | Trench 164, general shot | NW | Overcast |

|     |  |     |          |
|-----|--|-----|----------|
| 169 | Trench 165, general shot   | N   | Overcast |
| 170 | Trench 166, general shot   | N   | Overcast |
| 171 | Trench 167, general shot   | N   | Overcast |
| 172 | Trench 168, general shot   | S   | Overcast |
| 173 | Trench 169, general shot   | W   | Overcast |
| 174 | Trench 170, general shot   | W   | Overcast |
| 175 | Trench 171, general shot   | N   | Overcast |
| 176 | Trench 172, general shot   | W   | Overcast |
| 177 | Trench 173, general shot   | W   | Overcast |
| 178 | Trench 174, general shot   | W   | Overcast |
| 179 | Trench 175, general shot   | W   | Overcast |
| 180 | Trench 176, general shot   | E   | Overcast |
| 181 | Trench 177, general shot   | N   | Overcast |
| 182 | Trench 178, general shot   | S   | Overcast |
| 183 | Trench 179, general shot   | E   | Overcast |
| 184 | Trench 180, general shot   | E   | Overcast |
| 185 | Trench 181, general shot   | N   | Overcast |
| 186 | Trench 182, general shot   | N   | Overcast |
| 187 | Trench 183, general shot   | SE  | Overcast |
| 188 | Trench 184, general shot   | S   | Overcast |
| 189 | Trench 185, general shot   | S   | Overcast |
| 190 | Trench 186, general shot   | NE  | Overcast |
| 191 | Trench 187, general shot   | NE  | Overcast |
| 192 | Trench 188, general shot   | S   | Overcast |
| 193 | Trench 189, general shot   | S   | Overcast |
| 194 | Trench 193, general shot   | S   | Overcast |
| 195 | Trench 194, general shot   | W   | Overcast |
| 196 | Trench 195, general shot   | NNE | Overcast |
| 197 | Trench 196, general shot   | NNE | Overcast |
| 198 | Trench 190, Site 12 showing southern external wall of cottages   | S   | Overcast |
| 199 | Trench 190, Site 12 showing southern annexe to rear of row of cottages   | E   | Overcast |
| 200 | Trench 190, Site 12 showing possible fireplace within annexes of cottages  |     | Overcast |
| 201 | Trench 190, Site 12 western end of trench showing foundations and bottom two courses of brick walls                        | E   | Overcast |
| 202 | Trench 190, Site 12 showing southern foundation wall of annexe   | S   | Overcast |
| 203 | Trench 191, general shot   | S   | Overcast |
| 204 | Trench 191, Site 12 showing northern end wall of row of cottages   | N   | Overcast |
| 205 | Trench 192, general shot   | N   | Overcast |
| 206 | Trench 192, general shot   | S   | Overcast |
| 207 | Trench 190, Site 12 oblique shot of northern wall showing three lines of brick on top of sandstone foundations             | NE  | Overcast |
| 208 | Trench 190, Site 12 oblique shot of internal wall showing alternating layer of brick on top of rough sandstone foundations | SE  | Overcast |
| 209 | General shot of miners row (Site 12) from on top of spoil heap   | S   | Overcast |
| 210 | General shot of miners row (Site 12) from on top of spoil heap   | S   | Overcast |
| 211 | Trench 198, general shot   | N   | Overcast |
| 212 | Trench 192, (Site 12) drainage feature within annexe   | N   | Overcast |
| 213 | Trench 199, general shot   | NW  | Overcast |
| 214 | Trench 200, general shot   | NE  | Overcast |
| 215 | Area of rig and furrow to the east of the location ES Site 5   | W   | Overcast |
| 216 | Trench 201, general shot   | W   | Overcast |
| 217 | Trench 202, general shot   | S   | Overcast |

|     |  |    |          |
|-----|--|----|----------|
| 218 | Trench 203, general shot   | N  | Sun      |
| 219 | Trench 204, general shot   | W  | Overcast |
| 220 | Trench 205, general shot   | S  | Overcast |
| 221 | Trench 206, general shot   | S  | Overcast |
| 222 | Trench 207, general shot   | SE | Overcast |
| 223 | Trench 208, general shot   | E  | Overcast |
| 224 | Trench 209, general shot   | N  | Rain     |
| 225 | Trench 210, general shot   | S  | Rain     |
| 226 | Trench 211, general shot   | S  | Rain     |
| 227 | Trench 214, general shot   | E  | Rain     |
| 228 | Trench 213, showing Shiel (Site 6)                                 | E  | Rain     |
| 229 | Trench 213, showing Shiel (Site 6)                                 | W  | Rain     |
| 230 | Trench 212, showing Shiel (Site 6)                                 | N  | Rain     |
| 231 | Trench 212, showing close up of floor levels within Shiel (Site 6) | N  | Rain     |
| 232 | Trench 212, showing southern wall of Shiel (Site 6)                | N  | Rain     |
| 233 | Trench 212, showing southern wall of Shiel (Site 6)                | S  | Rain     |
| 234 | Trench 215, showing western wall of Shiel (Site 6)                 | SW | Rain     |
| 235 | Trench 215, showing north-west corner of Shiel f(Site 6)           | NW | Rain     |
| 236 | Trench 215, showing western wall of Shiel (Site 6)                 | W  | Rain     |
| 237 | Trench 212, backfilled with Shiel (Site 6) at far end              | S  | Rain     |
| 238 | Trench 213, close up of floor levels within Shiel (Site 6)         | W  | Rain     |
| 239 | Trench 213, close up of floor levels within Shiel (Site 6)         | E  | Rain     |
| 240 | Trench 212 showing raised floor level within Shiel (Site 6)        | N  | Rain     |
| 241 | Trench 216, general shot   | SW | Rain     |
| 242 | Trench 217, general shot   | SW | Rain     |
| 243 | Trench 218, general shot   | SE | Rain     |
| 244 | Trench 220, general shot   | SE | Rain     |
| 245 | Trench 219, general shot   | NE | Rain     |
| 246 | Trench 221, general shot   | SW | Overcast |
| 247 | Trench 222, general shot   | SW | Sun      |
| 248 | Trench 223, general shot   | SW | Overcast |
| 249 | Trench 224, general shot   | W  | Overcast |
| 250 | Trench 225, general shot   | NE | Sun      |
| 251 | Trench 226, general shot   | SW | Overcast |
| 252 | Trench 227, general shot   | W  | Sun      |
| 253 | Trench 228, general shot   | W  | Overcast |
| 254 | Trench 229, general shot   | E  | Overcast |
| 255 | Trench 230, general shot   | N  | Overcast |
| 256 | Trench 231, general shot   | N  | Overcast |
| 257 | Trench 232, general shot   | SW | Overcast |
| 258 | Trench 233, general shot   | SW | Overcast |
| 259 | Trench 234, general shot   | SW | Overcast |
| 260 | Trench 235, general shot   | SE | Overcast |
| 261 | Trench 236, general shot   | SE | Overcast |
| 262 | Trench 237, general shot   | NW | Rain     |
| 263 | Trench 238, general shot   | NW | Rain     |
| 264 | Trench 239, general shot   | NW | Rain     |
| 265 | Trench 240, general shot   | NW | Rain     |
| 266 | Trench 241, general shot   | SW | Rain     |
| 267 | Trench 242, general shot   | SW | Rain     |
| 268 | Trench 243, general shot   | SW | Rain     |
| 269 | Trench 244, general shot   | SW | Rain     |
| 270 | Trench 245, general shot   | SW | Rain     |
| 271 | Trench 246, general shot   | NW | Rain     |
| 272 | Trench 247, general shot   | NW | Rain     |
| 273 | Trench 248, general shot   | NW | Rain     |
| 274 | Trench 249, general shot   | N  | Rain     |

|          |                              |    |          |
|----------|------------------------------|----|----------|
| 275      | Trench 250, general shot     | SW | Rain     |
| 276      | Trench 251, general shot     | SW | Rain     |
| 277      | Trench 252, general shot     | SW | Rain     |
| 278      | Trench 253, general shot     | SW | Rain     |
| 279      | Trench 254, general shot     | SW | Rain     |
| 280      | Trench 255, general shot     | SW | Rain     |
| 281      | Trench 256, general shot     | NE | Rain     |
| 282      | Trench 257, general shot     | NE | Rain     |
| 283      | Trench 258, general shot     | NE | Rain     |
| 284      | Trench 259, general shot     | E  | Overcast |
| 285      | Trench 260, general shot     | E  | Overcast |
| 286 -287 | Site 5A, Shiel, general shot | E  | Overcast |
| 288      | Site 5A, Shiel, general shot | NE | Overcast |

## APPENDIX 2: Context Register

| Context No. | Area          | Trench  | Description  |
|-------------|---------------|---|--|
| 001         | All           | All   | Topsoil (mid grey-brown silt to black proto-peat)  |
| 002         | All           | All   | Natural subsoil (orange-brown sandy clay/clay, grey clay, orange brown and grey river gravels) |
| 003         | 1, 3, 7 and 8 | 80, 81, 82, 83, 85, 91, 141, 142, 143, 144, 145, 183, 184, 185, 186, 187, 188, 189, 193, 194, 195, 196, 199, 200, 224, 225, 255, 256, 257 and 259 | Reddish-brown/ mid-brown sandy clay/sandy silt subsoil   |
| 004         | 1, 2 and 8    | 33, 34, 35, 36, 63, 65, 71, 72, 86, 87, 88, 153, 154, 155, 158, 168, 171, 181, 182 and 252  | Peat   |
| 005         | 2 (Site 12)   | 190, 191, 192   | Foundation walls of miners row, mortared sandstone blocks                                      |
| 006         | 2 (Site 12)   | 190, 191, 192   | Walls of miners row, red bricks stamped LANEMARK   |
| 007         | 2 (Site 12)   | 190   | Fragmentary remains of concrete floors within main part of cottages                            |
| 008         | 2 (Site 12)   | 190, 192  | Foundation walls of cottage annexes, single course of sandstone blocks topped with red brick   |
| 009         | 2 (Site 12)   | 190, 192  | Concrete floor of cottage annexes  |
| 010         | 2 (Site 12)   | 190, 192  | Red brick walls of cottage annexes   |
| 011         | 2 (Site 12)   | 190, 192  | Brick structures within cottage annexes, possible fireplaces                                   |
| 012         | 2 (Site 12)   | 198   | Red brick surface (Lanemark bricks)  |
| 013         | 6 (Site 6)    | 212, 213, 215   | Sandstone foundations of building  |
| 014         | 6 (Site 6)    | 212, 213, 215   | Sandstone and mortar blocks forming walls of building  |
| 015         | 6 (Site 6)    | 212   | Cut for foundation trench  |
| 016         | 6 (Site 6)    | 213   | Concrete floor surface   |
| 017         | 6 (Site 6)    | 213   | Brick floor surface  |
| 018         | 6 (Site 6)    | 212, 213  | Slab floor surface   |
| 019         | 6 (Site 6)    | 212   | Concrete floor surface   |
| 020         | 6 (Site 6)    | 212   | Concrete floor surface   |

### APPENDIX 3: Summary of Evaluation Areas

| Area No | Area Size (m <sup>2</sup> ) | Area of trial trenching | % Evaluated |
|---------|-----------------------------|-------------------------|-------------|
| 1       | 273146                      | 14400                   | 5.27        |
| 2       | 73884                       | 3730                    | 5.048       |
| 3       | 20707                       | 1100                    | 5.3         |
| 4       | 6043                        | 300                     | 4.96        |
| 5       | 5875                        | 350                     | 5.96        |
| 6       | 11553                       | 616                     | 5.33        |
| 7       | 21101                       | 1100                    | 5.21        |
| 8       | 84238                       | 3400                    | 4           |
| Total   | 496547                      | 24996                   | 5.033       |

### APPENDIX 4: Summary of Excavation Results

| Trench No. | Area No. | Size (m) | Depth of Deposits (m) | Features                               |
|------------|----------|----------|-----------------------|--|
| 1          | 1        | 50 x 2   | 0.25                  | N/A                                    |
| 2          | 1        | 50 x 2   | 0.25                  | One rubble field drain                 |
| 3          | 1        | 50 x 2   | 0.25                  | N/A                                    |
| 4          | 1        | 50 x 2   | 0.25                  | Patch of coal deposit at SE end        |
| 5          | 1        | 50 x 2   | 0.25 – 0.8            | Two ceramic field drains               |
| 6          | 1        | 50 x 2   | 0.25 – 0.4            | One ceramic field drain                |
| 7          | 1        | 50 x 2   | 0.25 – 0.5            | N/A                                    |
| 8          | 1        | 50 x 2   | 0.3                   | N/A                                    |
| 9          | 1        | 50 x 2   | 0.25 – 0.35           | One ceramic cylinder drain             |
| 10         | 1        | 50 x 2   | 0.25                  | Very rough brick surface at SW end     |
| 11         | 1        | 50 x 2   | 0.15 – 0.4            | N/A                                    |
| 12         | 1        | 50 x 2   | 0.3                   | N/A                                    |
| 13         | 1        | 50 x 2   | 0.25                  | N/A                                    |
| 14         | 1        | 25 x 2   | 0.1 – 0.4             | One ceramic field drain                |
| 15         | 1        | 50 x 2   | 0.25                  | N/A                                    |
| 16         | 1        | 50 x 2   | 0.35                  | One ceramic drain and two stone drains |
| 17         | 1        | 50 x 2   | 0.25                  | N/A                                    |
| 18         | 1        | 50 x 2   | 0.2                   | N/A                                    |
| 19         | 1        | 50 x 2   | 0.25                  | N/A                                    |
| 20         | 1        | 50 x 2   | 0.3                   | N/A                                    |
| 21         | 1        | 50 x 2   | 0.25                  | N/A                                    |
| 22         | 1        | 25 x 2   | 0.3                   | One stone/ rubble field drain          |
| 23         | 1        | 50 x 2   | 0.35                  | N/A                                    |
| 24         | 1        | 50 x 2   | 0.25                  | N/A                                    |
| 25         | 1        | 50 x 2   | 0.2                   | Eleven ceramic field drains            |
| 26         | 1        | 50 x 2   | 0.25                  | One ceramic field drain                |
| 27         | 1        | 50 x 2   | 0.25                  | Two ceramic field drains               |
| 28         | 1        | 50 x 2   | 0.2                   | N/A                                    |
| 29         | 1        | 50 x 2   | 0.2                   | Three ceramic field drains             |
| 30         | 1        | 50 x 2   | 0.2 – 0.5             | Two ceramic field drains               |



| Trench No. | Area No. | Size (m) | Depth of Deposits (m) | Features  |
|------------|----------|----------|-----------------------|---|
| 31         | 1        | 50 x 2   | 0.2 – 0.4             | One ceramic field drain                                 |
| 32         | 1        | 50 x 2   | 0.3                   | One ceramic field drain                                 |
| 33         | 1        | 40 x 2   | 1.5                   | N/A   |
| 34         | 1        | 30 x 2   | 1.8                   | N/A   |
| 35         | 1        | 30 x 2   | 1.1 – 1.3             | N/A   |
| 36         | 1        | 50 x 2   | 0.45 – 0.55           | N/A   |
| 37         | 1        | 50 x 2   | 0.25                  | N/A   |
| 38         | 1        | 50 x 2   | 0.25                  | One field drain   |
| 39         | 1        | 50 x 2   | 0.2 – 0.4             | One ceramic field drain                                 |
| 40         | 1        | 50 x 2   | 0.3                   | Four ceramic field drains                               |
| 41         | 1        | 50 x 2   | 0.3                   | Three ceramic field drains                              |
| 42         | 1        | 50 x 2   | 0.2 – 0.4             | One rubble field drain                                  |
| 43         | 1        | 50 x 2   | 0.3                   | Three ceramic field drains;<br>one cast iron water pipe |
| 44         | 1        | 50 x 2   | 0.2 – 0.35            | One cast iron water pipe                                |
| 45         | 1        | 50 x 2   | 0.2 – 0.25            | N/A   |
| 46         | 1        | 50 x 2   | 0.2 – 0.3             | One ceramic field drain                                 |
| 47         | 1        | 50 x 2   | 0.2 – 0.25            | N/A   |
| 48         | 1        | 50 x 2   | 0.2                   | Two ceramic field drains                                |
| 49         | 1        | 50 x 2   | 0.2 – 0.25            | Three ceramic field drains;<br>one main field drain     |
| 50         | 1        | 50 x 2   | 0.2 0.25              | Two ceramic field drains;<br>one main field drain       |
| 51         | 1        | 50 x 2   | 0.2                   | Five ceramic field drains                               |
| 52         | 1        | 50 x 2   | 0.2                   | Fourteen ceramic field drains                           |
| 53         | 1        | 50 x 2   | 0.2                   | Six ceramic field drains                                |
| 54         | 1        | 50 x 2   | 0.2                   | Thirteen ceramic field drains                           |
| 55         | 1        | 50 x 2   | 0.3                   | Three ceramic field drains                              |
| 56         | 1        | 50 x 2   | 0.35                  | Five ceramic field drains                               |
| 57         | 1        | 50 x 2   | 0.3                   | Five ceramic field drains                               |
| 58         | 1        | 50 x 2   | 0.3                   | Eight ceramic field drains                              |
| 59         | 1        | 50 x 2   | 0.35                  | Five ceramic field drains                               |
| 60         | 1        | 50 x 2   | 0.25                  | Five ceramic field drains                               |
| 61         | 1        | 50 x 2   | 0.2 – 0.25            | Six ceramic field drains; one stone field drain         |
| 62         | 1        | 50 x 2   | 0.2 – 0.3             | Seven ceramic field drains                              |
| 63         | 1        | 50 x 2   | 0.3 – 1.65            | Two drainage pipes                                      |
| 64         | 1        | 50 x 2   | 0.15                  | One drainage pipe; two field drains                     |
| 65         | 1        | 50 x 2   | 0.6 – 1.2             | N/A   |
| 66         | 1        | 50 x 2   | 0.3                   | Four drainage ditches; one cut                          |
| 67         | 1        | 50 x 2   | 0.4                   | Five drainage ditches                                   |
| 68         | 1        | 50 x 2   | 0.25                  | Three drainage ditches; three drainage pipes            |
| 69         | 1        | 50 x 2   | 0.2 – 0.25            | Five ceramic field drains                               |
| 70         | 1        | 50 x 2   | 0.3                   | Nine field drains                                       |
| 71         | 1        | 50 x 2   | 0.7m – 2.3m           | One field drain   |
| 72         | 1        | 10 x 2   | 2.7m                  | One field drain   |
| 73         | 1        | 50 x 2   | 0.4                   | Two field drains  |
| 74         | 1        | 50 x 2   | 0.3                   | Four field drains                                       |
| 75         | 1        | 50 x 2   | 0.2                   | Three ceramic field drains                              |
| 76         | 1        | 50 x 2   | 0.25                  | Three field drains                                      |
| 77         | 1        | 50 x 2   | 0.25                  | Two ceramic field drains                                |
| 78         | 1        | 50 x 2   | 0.2 – 0.25            | One field drain   |
| 79         | 1        | 50 x 2   | 0.2 – 0.25            | Two ceramic field drains;                               |

| Trench No. | Area No. | Size (m) | Depth of Deposits (m) | Features   |
|------------|----------|----------|-----------------------|--|
|            |          |          |                       | one rubble field drain   |
| 80         | 1        | 50 x 2   | 0.5                   | One cobble drainage ditch and drainage ditch cut                             |
| 81         | 1        | 50 x 2   | 0.75                  | One field drain ditch cut  |
| 82         | 1        | 50 x 2   | 0.55                  | One rubble field drain; two field drain cuts; one field drain pipe           |
| 83         | 1        | 50 x 2   | 0.75                  | Nine field drains  |
| 84         | 1        | 50 x 2   | 0.2                   | One large modern field drain; rock rubble field drains; modern white pottery |
| 85         | 1        | 50 x 2   | 0.35 – 1.1            | Three ceramic field drains   |
| 86         | 1        | 50 x 2   | 0.2 – 1.2             | One field drain  |
| 87         | 1        | 50 x 2   | 0.7 - >2              | N/A  |
| 88         | 1        | 50 x 2   | 0.55 – 1.5            | N/A  |
| 89         | 1        | 25 x 2   | 0.3                   | One field drain  |
| 90         | 1        | 50 x 2   | 0.35 – 0.4            | One field drain  |
| 91         | 1        | 50 x 2   | 0.5                   | N/A  |
| 92         | 1        | 40 x 2   | 0.4                   | N/A  |
| 93         | 1        | 50 x 2   | 0.4                   | Three field drains   |
| 94         | 1        | 50 x 2   | 0.35                  | Three field drains   |
| 95         | 1        | 50 x 2   | 0.2 – 0.25            | Six ceramic field drains   |
| 96         | 1        | 50 x 2   | 0.2                   | N/A  |
| 97         | 1        | 50 x 2   | 0.2                   | One ceramic field drain  |
| 98         | 1        | 50 x 2   | 0.2                   | Two field drains   |
| 99         | 1        | 50 x 2   | 0.2                   | Seven field drains   |
| 100        | 1        | 50 x 2   | 0.2                   | Three stone field drains; Two ceramic field drains                           |
| 101        | 1        | 50 x 2   | 0.3                   | Eleven ceramic field drains  |
| 102        | 1        | 50 x 2   | 0.3                   | Three ceramic field drains   |
| 103        | 1        | 50 x 2   | 0.2                   | Two field drains; one rubble drain   |
| 104        | 1        | 50 x 2   | 0.2                   | One field drain  |
| 105        | 1        | 50 x 2   | 0.2                   | One ceramic field drain  |
| 106        | 1        | 50 x 2   | 0.2                   | Two field drains   |
| 107        | 1        | 50 x 2   | 0.2                   | Ceramic field drains (exact number not recorded due to snow cover)           |
| 108        | 1        | 50 x 2   | 0.2                   | Ceramic field drains (exact number not recorded due to snow cover)           |
| 109        | 1        | 50 x 2   | 0.2                   | Ceramic field drains (exact number not recorded due to snow cover)           |
| 110        | 1        | 50 x 2   | 0.2                   | Ceramic field drains (exact number not recorded due to snow cover)           |
| 111        | 1        | 50 x 2   | 0.2                   | Four ceramic field drains  |
| 112        | 1        | 50 x 2   | 0.2                   | Four ceramic field drains  |
| 113        | 1        | 50 x 2   | 0.2                   | Ceramic field drains (exact number not recorded due to snow cover)           |
| 114        | 1        | 50 x 2   | 0.2                   | Ceramic field drains (exact number not recorded due to snow cover)           |
| 115        | 1        | 50 x 2   | 0.2                   | Ceramic field drains (exact number not recorded due to                       |

| Trench No. | Area No. | Size (m) | Depth of Deposits (m) | Features   |
|------------|----------|----------|-----------------------|--|
|            |          |          |                       | snow cover)  |
| 116        | 1        | 50 x 2   | 0.2                   | Ceramic field drains (exact number not recorded due to snow cover)                             |
| 117        | 1        | 50 x 2   | 0.2                   | Ceramic field drains (exact number not recorded due to snow cover)                             |
| 118        | 1        | 50 x 2   | 0.2                   | N/A  |
| 119        | 1        | 50 x 2   | 0.2                   | One ceramic field drain  |
| 120        | 1        | 50 x 2   | 0.2                   | Ten field drains   |
| 121        | 1        | 50 x 2   | 0.2                   | Ten field drains   |
| 122        | 1        | 50 x 2   | 0.2                   | Nine field drains  |
| 123        | 1        | 50 x 2   | 0.3                   | Eleven field drains  |
| 124        | 1        | 50 x 2   | 0.3                   | One ceramic field drain  |
| 125        | 1        | 50 x 2   | 0.2                   | Eight ceramic field drains   |
| 126        | 1        | 50 x 2   | 0.2                   | One ceramic field drain; two field drains  |
| 127        | 1        | 25 x 2   | 0.3                   | Six drainage ditches   |
| 128        | 1        | 50 x 2   | 0.25                  | Two drainage ditches   |
| 129        | 1        | 50 x 2   | 0.2                   | Continuation of field drain identified in trench 120; two field drains                         |
| 130        | 1        | 50 x 2   | 0.2                   | Two ceramic field drains; continuation of N-S aligned open drain within southern part of field |
| 131        | 1        | 50 x 2   | 0.2                   | Nine ceramic field drains  |
| 132        | 1        | 50 x 2   | 0.2                   | Continuation of N-S aligned open ditch in southern end of field                                |
| 133        | 1        | 50 x 2   | 0.2                   | Continuation of open drain within southern end of field; ten ceramic field drains              |
| 134        | 1        | 25 x 2   | 0.25                  | Five ceramic field drains  |
| 135        | 1        | 50 x 2   | 0.3                   | Five field drains  |
| 136        | 1        | 50 x 2   | 0.2 – 0.8             | Five ceramic field drains  |
| 137        | 1        | 50 x 2   | 0.3 – 0.9             | Ten ceramic field drains   |
| 138        | 1        | 50 x 2   | 0.3 – 0.4             | Two ceramic field drains   |
| 139        | 1        | 50 x 2   | 0.4                   | Ten field drains; one large drainage ditch   |
| 140        | 1        | 50 x 2   | 0.3                   | N/A  |
| 141        | 1        | 50 x 2   | 0.4 – 0.7             | N/A  |
| 142        | 1        | 50 x 2   | 0.6                   | N/A  |
| 143        | 1        | 50 x 2   | 1                     | N/A  |
| 144        | 1        | 25 x 2   | 0.9                   | N/A  |
| 145        | 1        | 50 x 2   | 0.8                   | N/A  |
| 146        | 1        | 50 x 2   | 0.2 – 0.5             | Two ceramic field drains   |
| 147        | 2        | 50 x 2   | 0.2                   | One ceramic field drain  |
| 148        | 2        | 50 x 2   | 0.2                   | One ceramic field drain  |
| 149        | 2        | 50 x 2   | 0.3                   | Three ceramic field drains   |
| 150        | 2        | 50 x 2   | 0.2                   | Four field drains  |
| 151        | 2        | 50 x 2   | 0.2                   | Two field drains   |
| 152        | 2        | 50 x 2   | 0.2                   | N/A  |
| 153        | 2        | 50 x 2   | 0.2 – 0.7             | One ceramic field drain  |
| 154        | 2        | 50 x 2   | 0.3 – 1.5             | One ceramic field drain  |
| 155        | 2        | 50 x 2   | 0.3- 1.1              | One ceramic field drain  |
| 156        | 2        | 25 x 2   | 0.25                  | Two field drains   |

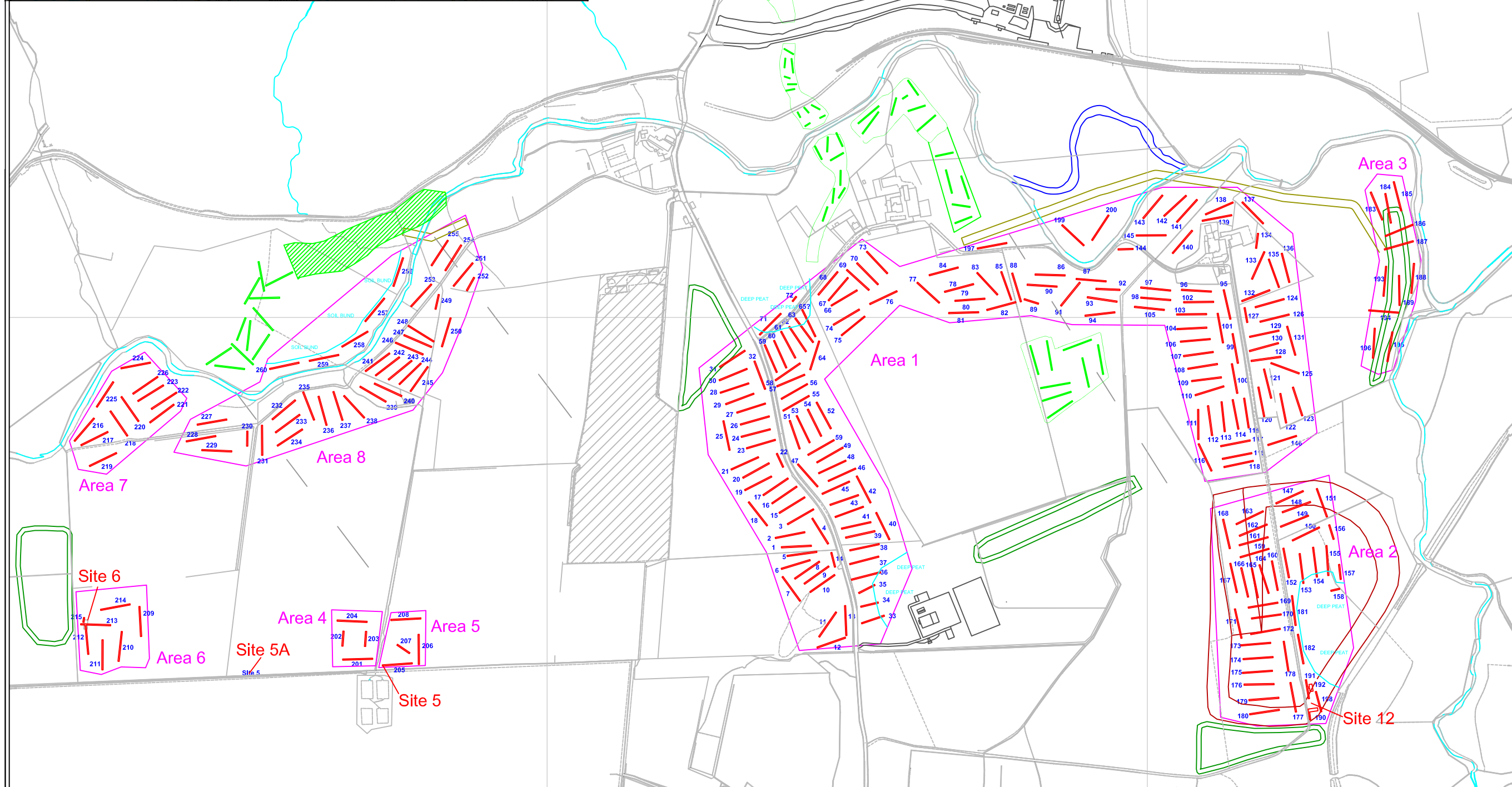
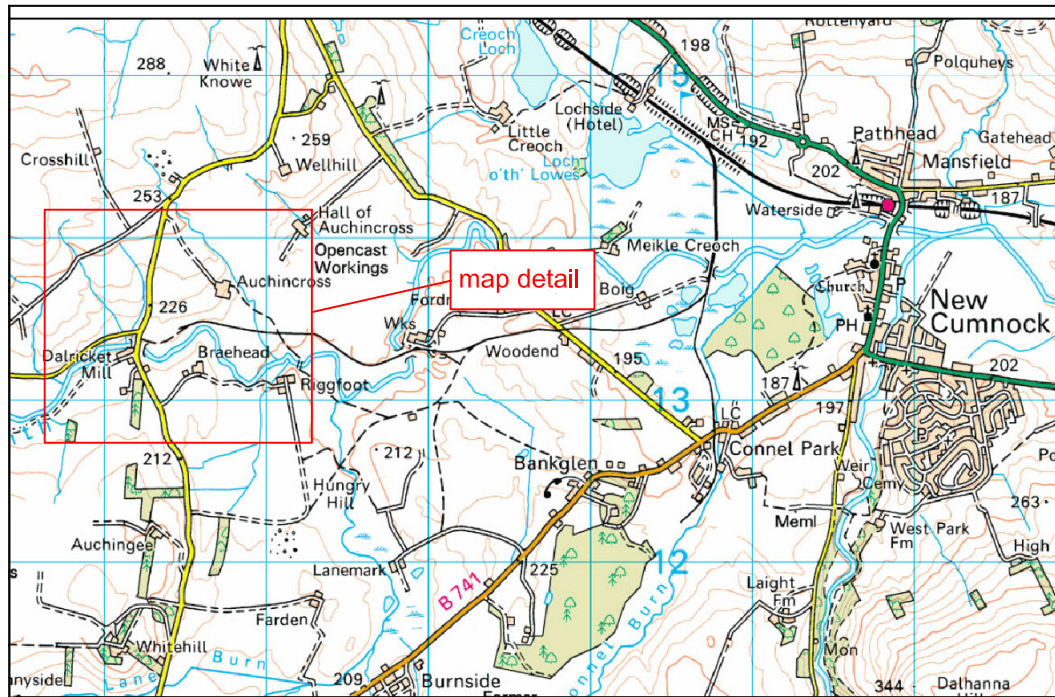
| Trench No. | Area No. | Size (m)           | Depth of Deposits (m) | Features  |
|------------|----------|--------------------|-----------------------|---|
| 157        | 2        | 25 x 2             | 0.25                  | Four ceramic field drains                           |
| 158        | 2        | 15 x 2             | 0.8 – 1.8             | N/A   |
| 159        | 2        | 50 x 2             | 0.2                   | One open field drain                                |
| 160        | 2        | 50 x 2             | 0.2                   | One ceramic field drain                             |
| 161        | 2        | 50 x 2             | 0.25                  | One open field drain                                |
| 162        | 2        | 50 x 2             | 0.2                   | Two ceramic field drains                            |
| 163        | 2        | 50 x 2             | 0.2                   | One open field drain; four ceramic field drains     |
| 164        | 2        | 50 x 2             | 0.2                   | Four ceramic field drains                           |
| 165        | 2        | 50 x 2             | 0.2                   | Six field drains                                    |
| 166        | 2        | 50 x 2             | 0.2                   | Five shallow ‘U’ shaped cut field drains            |
| 167        | 2        | 50 x 2             | 0.2                   | Six field drains                                    |
| 168        | 2        | 50 x 2             | 0.3 – 0.8             | Seven ceramic field drains                          |
| 169        | 2        | 50 x 2             | 0.2                   | One field drain                                     |
| 170        | 2        | 50 x 2             | 0.2                   | Three field drains                                  |
| 171        | 2        | 50 x 2             | 0.2 – 0.9             | Two ceramic field drains                            |
| 172        | 2        | 50 x 2             | 0.15                  | One ceramic field drain; one open field drain       |
| 173        | 2        | 50 x 2             | 0.2                   | N/A   |
| 174        | 2        | 50 x 2             | 0.15                  | Two ceramic cylinder drains                         |
| 175        | 2        | 50 x 2             | 0.25                  | One ‘U’ shaped ditch- field drain- cut              |
| 176        | 2        | 50 x 2             | 0.2                   | Two ceramic field drains                            |
| 177        | 2        | 50 x 2             | 0.2                   | One iron pipe                                       |
| 178        | 2        | 50 x 2             | 0.2                   | Seven field drains                                  |
| 179        | 2        | 50 x 2             | 0.2                   | Two field drains                                    |
| 180        | 2        | 50 x 2             | 0.2                   | One ceramic cylinder drain; one open drain          |
| 181        | 2        | 50 x 2             | 1.1                   | N/A   |
| 182        | 2        | 50 x 2             | 1                     | N/A   |
| 183        | 3        | 50 x 2             | 0.9                   | N/A   |
| 184        | 3        | 50 x 2             | 0.8                   | N/A   |
| 185        | 3        | 50 x 2             | 0.8                   | N/A   |
| 186        | 3        | 50 x 2             | 0.8                   | N/A   |
| 187        | 3        | 50 x 2             | 0.8                   | N/A   |
| 188        | 3        | 50 x 2             | 0.75                  | N/A   |
| 189        | 3        | 50 x 2             | 0.9                   | N/A   |
| 190        | 2        | 18m x2m<br>14m x5m | 0.9                   | Remains of Miners Row (Site 12)                     |
| 191        | 2        | 32 x 2             | 0.7                   | Remains of Miners Row (Site 12)                     |
| 192        | 2        | 12 x 5             | >0.3 (not bottomed)   | Remains of Miners Row (Site 12)                     |
| 193        | 3        | 50 x 2             | 0.75                  | N/A   |
| 194        | 3        | 50 x 2             | 0.75                  | N/A   |
| 195        | 3        | 50 x 2             | 0.7                   | N/A   |
| 196        | 3        | 50 x 2             | 0.8                   | N/A   |
| 197        | 1        | 50 x 2             | 0.2 – 0.55            | One field drain                                     |
| 198        | 2        | 35 x 2             | 0.7                   | Brick surface/20 <sup>th</sup> century rubbish dump |
| 199        | 1        | 50 x 2             | 0.8                   | N/A   |
| 200        | 1        | 50 x 2             | 0.95                  | N/A   |
| 201        | 4        | 50 x 2             | 0.3                   | N/A   |
| 202        | 4        | 25 x 2             | 0.3                   | N/A   |
| 203        | 4        | 25 x 2             | 0.3                   | One field drain                                     |
| 204        | 4        | 50 x 2             | 0.3                   | Six field drains                                    |

| Trench No. | Area No. | Size (m) | Depth of Deposits (m) | Features                            |
|------------|----------|----------|-----------------------|-------------------------------------|
| 205        | 5        | 50 x 2   | 0.2 – 0.3             | N/A                                 |
| 206        | 5        | 50 x 2   | 0.2                   | Rig and Furrow                      |
| 207        | 5        | 25 x 2   | 0.3                   | Rig and Furrow                      |
| 208        | 5        | 50 x 2   | 0.35                  | One field drain                     |
| 209        | 6        | 50 x 2   | 0.4                   | Three ceramic cylinder drains       |
| 210        | 6        | 50 x 2   | 0.4                   | Two ceramic field drains            |
| 211        | 6        | 50 x 2   | 0.3 – 0.4             | N/A                                 |
| 212        | 6        | 50 x 2   | 0.4                   | Shiel (domestic structure) (Site 6) |
| 213        | 6        | 50 x 2   | 0.4                   | Shiel (domestic structure) (Site 6) |
| 214        | 6        | 50 x 2   | 0.3                   | N/A                                 |
| 215        | 6        | 8 x 2    | 0.3                   | Shiel (domestic structure) (Site 6) |
| 216        | 7        | 50 x 2   | 0.2                   | Four ceramic field drains           |
| 217        | 7        | 50 x 2   | 0.3                   | Eight ceramic field drains          |
| 218        | 7        | 50 x 2   | 0.3                   | Three ceramic field drains          |
| 219        | 7        | 50 x 2   | 0.2 – 0.7             | Eight ceramic field drains          |
| 220        | 7        | 50 x 2   | 0.4                   | N/A                                 |
| 221        | 7        | 50 x 2   | 0.25                  | Eight ceramic field drains          |
| 222        | 7        | 50 x 2   | 0.2                   | Ten ceramic field drains            |
| 223        | 7        | 50 x 2   | 0.2                   | Eight ceramic field drains          |
| 224        | 7        | 50 x 2   | 0.7                   | N/A                                 |
| 225        | 7        | 50 x 2   | 0.9                   | Three ceramic field drains          |
| 226        | 7        | 50 x 2   | 0.25                  | Seven ceramic field drains          |
| 227        | 8        | 50 x 2   | 0.35                  | One ceramic field drain             |
| 228        | 8        | 50 x 2   | 0.3                   | One field drain                     |
| 229        | 8        | 50 x 2   | 0.2                   | Twelve ceramic field drains         |
| 230        | 8        | 25 x 2   | 0.25                  | One field drain                     |
| 231        | 8        | 50 x 2   | 0.2                   | Three ceramic field drains          |
| 232        | 8        | 50 x 2   | 0.2                   | Four ceramic field drains           |
| 233        | 8        | 50 x 2   | 0.3                   | Nine ceramic field drains           |
| 234        | 8        | 50 x 2   | 0.3                   | Twelve ceramic field drains         |
| 235        | 8        | 50 x 2   | 0.3                   | Eight field drains                  |
| 236        | 8        | 50 x 2   | 0.3                   | Eight ceramic drains; plastic pipe  |
| 237        | 8        | 50 x 2   | 0.2                   | Three ceramic field drains          |
| 238        | 8        | 50 x 2   | 0.2                   | Five ceramic field drains           |
| 239        | 8        | 50 x 2   | 0.2                   | Four ceramic drains                 |
| 240        | 8        | 50 x 2   | 0.2 – 0.4             | Four field drains                   |
| 241        | 8        | 50 x 2   | 0.25                  | Four field drains                   |
| 242        | 8        | 50 x 2   | 0.2                   | Five field drain cuts               |
| 243        | 8        | 50 x 2   | 0.2 – 0.3             | Five field drains                   |
| 244        | 8        | 50 x 2   | 0.2                   | Three ceramic field drains          |
| 245        | 8        | 50 x 2   | 0.2                   | Four field drains                   |
| 246        | 8        | 50 x 2   | 0.3                   | N/A                                 |
| 247        | 8        | 50 x 2   | 0.3                   | N/A                                 |
| 248        | 8        | 50 x 2   | 0.4                   | N/A                                 |
| 249        | 8        | 25 x 2   | 0.2                   | Two field drains; one stone hole    |
| 250        | 8        | 50 x 2   | 0.2                   | One field drain                     |
| 251        | 8        | 50 x 2   | 0.2                   | Five ceramic field drains           |
| 252        | 8        | 25 x 2   | 0.2 - 1               | Four ceramic field drains           |
| 253        | 8        | 50 x 2   | 0.2                   | N/A                                 |
| 254        | 8        | 50 x 2   | 0.2 – 0.3             | Four field drains                   |
| 255        | 8        | 50 x 2   | 0.3                   | N/A                                 |

| <b>Trench No.</b> | <b>Area No.</b> | <b>Size (m)</b> | <b>Depth of Deposits (m)</b> | <b>Features</b>    |
|-------------------|-----------------|-----------------|------------------------------|--------------------|
| 256               | 8               | 50 x 2          | 0.5                          | N/A                |
| 257               | 8               | 50 x 2          | 0.5                          | Three field drains |
| 258               | 8               | 50 x 2          | 0.3                          | Five field drains  |
| 259               | 8               | 50 x 2          | 0.45                         | Three field drains |
| 260               | 8               | 50 x 2          | 0.4                          | N/A                |

### **APPENDIX 5: Field Drawings Register**

| <b>Sheet No</b> | <b>Drawing No</b> | <b>Scale</b> | <b>Section/Plan</b> | <b>Description</b>                  |
|-----------------|-------------------|--------------|---------------------|-------------------------------------|
| 1               | 1A                | 1:100        | P                   | Plan of Miners Row (Site 12) part 1 |
| 2               | 1B                | 1:100        | P                   | Plan of Miners Row (Site 12) part 2 |
| 3               | 2                 | 1:50         | P                   | Plan of Shiel (Site 6)              |



- Key:
- Previous evaluation areas and trenches
  - Previous watching brief area
  - Evaluation trenches
  - Evaluation areas

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Fig. No: 1 Revision: A

Title:  
Location map and trench plan

Project:  
Greenburn OCCS, Braehead Farm

Client:  
Kier Mining

Scale at A3:  
1:7000

Key:

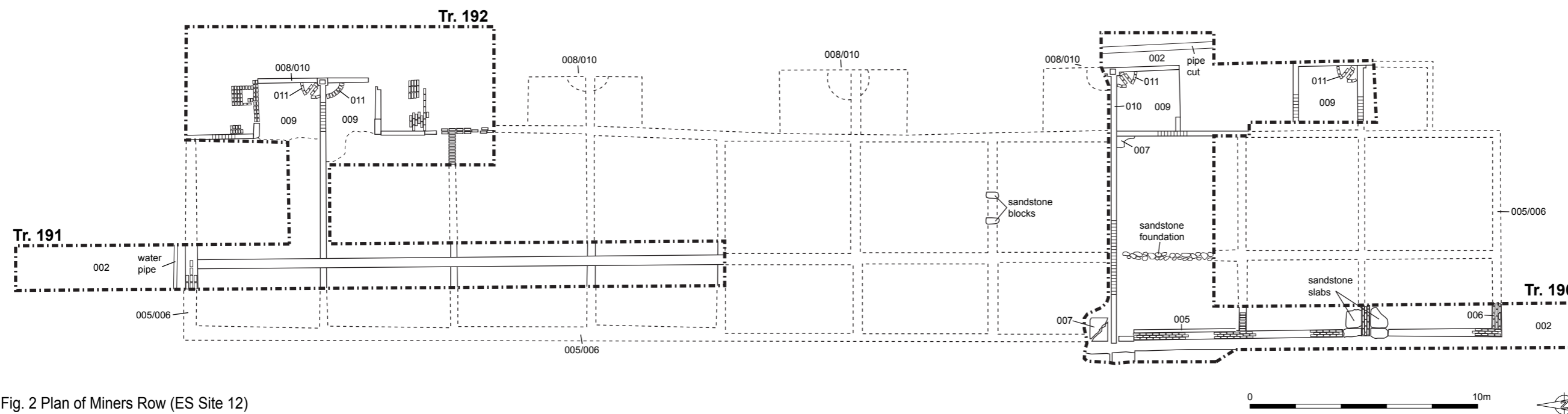


Fig. 2 Plan of Miners Row (ES Site 12)

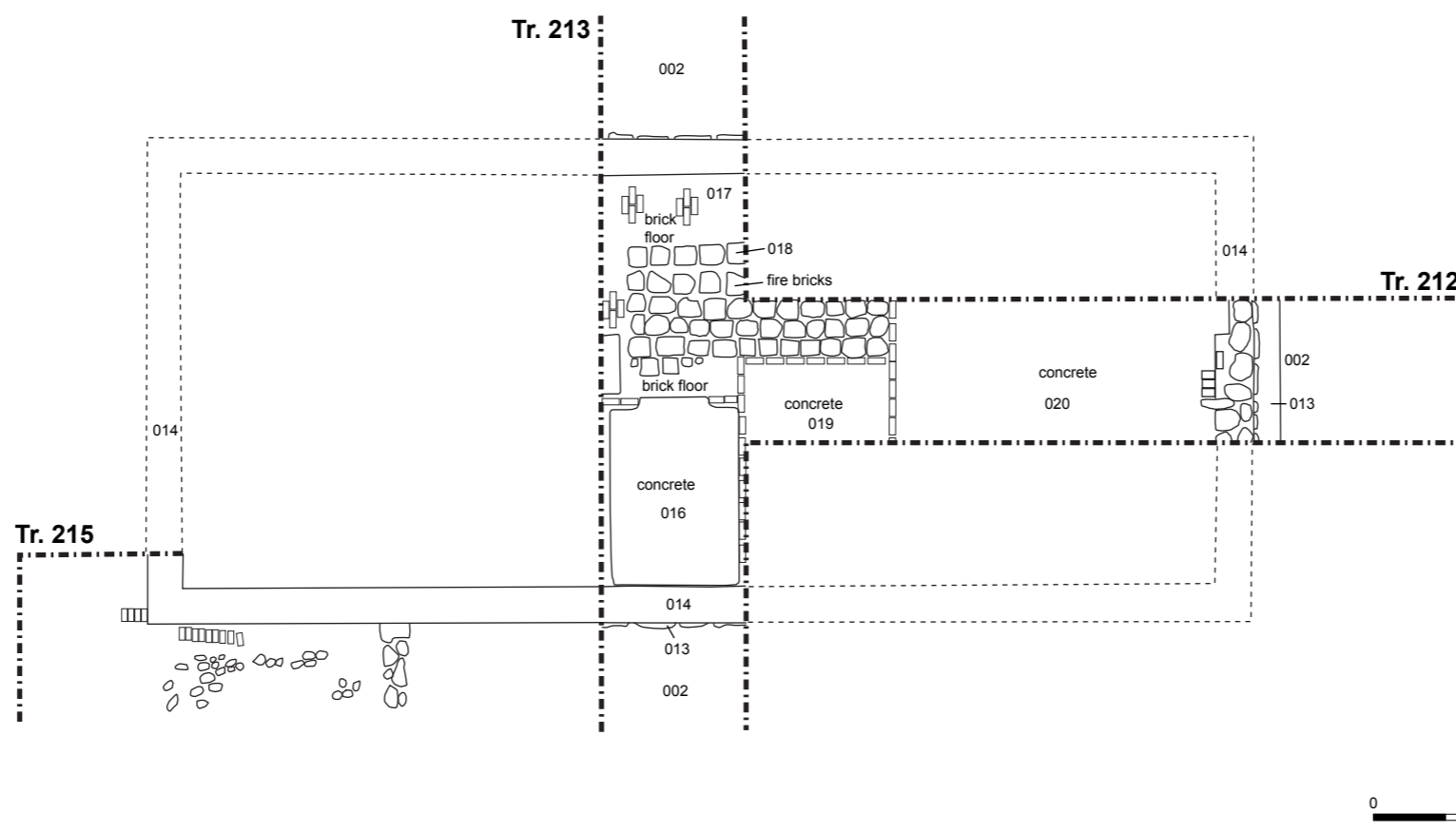


Fig. 3 Plan of Shiel Building (ES Site 6)





Fig. 4 Miners Row (Site 12) with annexe in foreground from the east



Fig. 5 Miners Row (Site 12) sandstone foundations supporting brick walls



Fig. 6 Miners Row (Site 12) close-up of annexe



Fig. 7 Miners Row (Site 12) close-up of possible fireplace



Fig. 8 Area 4, looking across to Rig and Furrow within Area 5



Fig. 9 Shiel building (Site 6) showing remains of outer wall from the west

Key:



Fig. 10 Shiel building (Site 6) showing detail of floor surfaces




Fig. 11 Shiel building (Site 6) within the landscape setting



Fig. 12 Shiel (Site 5a) showing low turf covered walls from the east



Fig. 13 Shiel (Site 5a) showing low turf covered walls from the north-east

|        |           |                               |           |    |                 |  |
|--------|-----------|-------------------------------|-----------|----|-----------------|--|
| Key:   | Fig. No:  | 10-13                         | Revision: | A  | Client:         |  <b>CFA</b><br>CFA ARCHAEOLOGY LTD<br>The Old Engine House<br>Eskmills Park<br>Musselburgh<br>East Lothian, EH21 7PQ<br>t: 0131 273 4380<br>f: 0131 273 4381<br>e: info@cfa-archaeology.co.uk<br>w: www.cfa-archaeology.co.uk |
|        | Title:    |                               |           |    |                 |  |
| Scale: | Project:  | Greenburn OCCS, Braehead Farm |           |    |                 |  |
|        | Drawn by: | GC                            | Checked:  | LW | Report No: 2019 |  |