



Land at Broomy Farm Woodville, Derbyshire

Archaeological Investigations



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Summary

Wessex Archaeology was commissioned by RPS Consulting to undertake an archaeological watching brief and strip, map and record excavation during groundworks related to a residential development at Broomy Farm, Woodville, Derbyshire (Fig. 1). The area of watching brief occupied 3.5 ha and was centred on NGR 431930 320050. The SMR area lay 310 m to the north-west; it occupied 0.27 ha and was centred on NGR 431560 320360.

The works were carried out as a condition of planning permission, granted by South Derbyshire District Council (9/2014/0740), as part of a programme of archaeological works, which had included a desk-based assessment, geophysical survey and archaeological evaluation trenching.

The watching brief recorded a total of 99 shafts/bell pits which appear to relate to coal extraction. Post-medieval recovered pottery from the fills of one of the shafts suggest they may be related to previously identified post-medieval coal workings on Woodville Road (HER No 20236).

Within the area of strip, map and record excavation 17 pits were recorded. To their south-east an arrangement of six parallel furrows appearing to peter out to the south-west was seen. The pits are presumed to have been dug for the purposes of clay extraction, with the clay used in the nearby pottery industry. The artefactual evidence suggests the pits were likely to have been broadly contemporary with each other and were probably infilled in the 19th–20th century. Their backfill contained quantities of local pottery, including mis-fired sherds, and kiln furniture, the presence of which indicates the material derived directly from one or more of the former pottery works known nearby.

The site contains evidence for the extraction of raw materials related to two activities historically attested in the local area: coal-mining and pottery production. That waste products from the local ceramics industry then entered the site is also of some interest, with the pottery assemblage preserving a 'snapshot' of some of the types of wares produced during the 19th and 20th centuries. The pottery assemblage therefore appears to have some limited potential to explore the regional research objective of developing understanding of the manufacture of pottery.

The site archive will be stored at the Sheffield office of Wessex Archaeology under project code 217830 and 217831. Following the completion of all reporting the archive will be deposited at Derby Museum and Art Gallery.

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The watching brief was carried out by Chris Hirst, with the assistance of Andrew Swann, Gwen Naylor and Jack Peverall. The strip, map and record was directed by Viktoría Halldórsdóttir, with the assistance of Jack Peverall. This report was written by John Winfer, Emma Metcalfe and Viktoría Halldórsdóttir and edited by Patrick Daniel and Andrew Valdez-Tullett. The project was managed by John Winfer on behalf of Wessex Archaeology.



Land at Broomy Farm, Woodville, Derbyshire

Archaeological Investigations

1 INTRODUCTION

1.1 Project and planning background

- 1.1.1 Wessex Archaeology was commissioned by RPS Consulting to undertake an archaeological watching brief and strip, map and record excavation (SMR) during groundworks related to a residential development at Broomy Farm, Woodville, Derbyshire (Fig. 1). The area of watching brief occupied 3.5 ha and was centred on NGR 431930 320050. The SMR area lay 310 m to the north-west; it occupied 0.27 ha and was centred on NGR 431560 320360.
- 1.1.2 The works were carried out as a condition of planning permission, granted by South Derbyshire District Council (9/2014/0740), as part of a programme of archaeological works, which had included a desk-based assessment (CgMs 2014), geophysical survey (Stratascan 2014) and archaeological evaluation trenching (ASWYAS 2019).
- 1.1.3 The archaeological investigations were undertaken in accordance with a written scheme of investigation (WSI), which detailed the aims, methodologies and standards to be employed (CgMs 2019). Steve Baker, county archaeologist at Derbyshire County Council, approved the WSI, on behalf of the Local Planning Authority, prior to fieldwork commencing. The watching brief was undertaken between 20 February and 23 May 2019. The SMR was carried out between 17 August and 7 September 2020.

1.2 Scope of the report

- 1.2.1 The purpose of this report is to provide the results of the watching brief and SMR, to interpret the results within their local or regional context (or otherwise), and to assess their potential to address the aims outlined in the WSI, thereby making available information about the archaeological resource (a preservation by record).

1.3 Location, topography and geology

- 1.3.1 The overall development site is located north-west of Woodville Road, near Swadlincote, Derbyshire and is centred on NGR 431790 320150 (Fig. 1). It is bounded to the south-east by Woodville Road (A514) and the rear of houses along Woodville Road; to the south-west by Granville Sports College and properties off Jubilee Park, Thistle Close and Field View; to the north-west by properties off Salisbury Drive and agricultural fields, and to the north-east by Broomy Farm Livery Stables and agricultural land.
- 1.3.2 The site is located on a north-east facing slope, dipping from 120 m above Ordnance Datum (OD) along the south-west boundary to 100 m OD along its northern boundary.
- 1.3.3 The underlying geology is mapped as Mudstone, Siltstone and Sandstone of the Pennine Lower Coal Measures Formation. No superficial deposits are recorded (British Geological Survey online viewer).



2 ARCHAEOLOGICAL AND HISTORICAL BACKGROUND

2.1 Introduction

2.1.1 The following section outlines the historic context of the site and summarizes information from the WSI produced by CgMs (2019).

2.1.2 The archaeological potential of the development site was examined prior to planning permission being granted through archaeological desk-based assessment (CgMs 2014) and a programme of archaeological geophysical survey undertaken in 2014 (Stratascan 2014) as well as a scheme of trial trenching (ASWYAS 2019).

2.2 Archaeological and historical context

2.2.1 The desk-based assessment noted a small number of post-medieval HER entries within and immediately adjacent to the site. These are the site of a 19th-century mine shaft (20207); modern building platforms (20208); two field boundaries (20221 and 20222) a trackway (20233) and part of a larger field system (28130). On the first edition Ordnance Survey (OS) map Broomy Farm is located at the centre of the site (1885) but by 1902 the farm had been demolished and a sewage works built. The desk-based assessment also reviewed existing archaeological information for the surrounding area to consider the potential presence of other, as-yet undiscovered, archaeological assets on the site. It established that there was a limited likelihood for archaeological remains to be present but concluded that this may be a consequence of the limited number of archaeological investigations within the site and its immediate surroundings.

2.2.2 The geophysical survey recorded the presence of historic field systems but identified no definitive features of archaeological interest. The site's archaeological potential was subsequently tested through a scheme of archaeological trial trenching. The trial trenching (ASWYAS 2019) confirmed that the geophysical survey was largely accurate in predicting the archaeological potential of the site. It mainly revealed post-medieval and modern field boundaries across the entire site as well as pits containing waste from coal workings in the south-east (near HER 20236 – former coal workings). These pits did not exceed 2 m in depth and did not resemble extraction workings. A cluster of undated features was also uncovered within the north-eastern part of the site (trenches 3 and 4).

3 AIMS AND OBJECTIVES

3.1.1 The aims and objectives of the programme of archaeological investigation, as stated in the WSI (CgMs 2019) were:

- To determine, and record in plan, the extent of the area of coal workings within the site and to monitor their excavation during remediation;
- To determine the date and frequency of features found as a cluster in trenches 3 and 4;
- To determine the character, origin, date, preservation and significance of the archaeological features/deposits and/or finds during the site strip;
- To assess the artefactual and environmental potential of the archaeological deposits encountered, and if possible, to date the bell pits;



- To assess whether the site can contribute to our understanding of agriculture and industry in the post-medieval and modern period as per points 8.3, 8.5, 9.6 and 9.7 of the East Midlands Historic Environment Research Framework)
- To disseminate the results of the archaeological investigation, and advance understanding of the site's archaeology as appropriate,
- To produce a site archive for deposition with an appropriate museum.

4 METHODS

4.1 Introduction

4.1.1 All works were undertaken in accordance with the detailed methodology set out within the WSI (CgMs 2019) and in general compliance with the standards outlined in ClfA guidance (ClfA 2014a). The methods employed are summarized below.

4.2 Specific fieldwork methods – Watching Brief

4.2.1 The watching archaeologist monitored all mechanical excavations within the specified watching brief area. Where necessary, the surface of uncovered archaeological deposits was cleaned by hand. The features identified were too large and unstable to be excavated by hand but remediation works were monitored and spoil derived from that work scanned for the purpose of finds retrieval. Where found, artefacts were collected and bagged by context.

4.2.2 A full photographic record was made using digital cameras equipped with an image sensor of not less than 20 megapixels. Digital images have been subject to managed quality control and curation processes, which has embedded appropriate metadata within the image and will ensure long term accessibility of the image set.

4.2.3 A survey grade GPS was used to survey the location of archaeological features. Problems with the data have meant that the locations of the features recorded in the watching brief area cannot be shown in this report. All survey data was recorded in OS National Grid coordinates and heights above OD (Newlyn), as defined by OSGM15 and OSTN15, with a three-dimensional accuracy of at least 50 mm.

4.3 Specific fieldwork methods – SMR

4.3.1 The excavation area was set out using a Leica Global Navigation Satellite System (GNSS) connected to Leica's SmartNet service, in broadly the same position as that proposed in the WSI (Fig.1).

4.3.2 A selection of features and deposits were initially hand-excavated, this included all the furrows and six pits. Once it was established that the features were all modern and of a similar type, the remaining 11 pits were dug using a tracked excavator with a toothless bucket. This was done with the agreement of the county archaeologist and the client.

4.3.3 Spoil derived from both machine stripping and hand-excavated archaeological deposits was visually scanned for the purposes of finds retrieval. Due to the abundance of modern finds in the features, only a sample of artefacts was collected from each context.

4.3.4 All exposed archaeological deposits and features were recorded using Wessex Archaeology's *pro forma* recording system. A complete drawn record of excavated features and deposits was made of sections, drawn to appropriate scales and tied to the



Ordnance Survey (OS) National Grid. The Ordnance Datum (OD: Newlyn) heights of all principal features were calculated, and levels added to section drawings. All features were recorded in plan using a survey grade GPS.

- 4.3.5 A full photographic record was made using digital cameras equipped with an image sensor of not less than 20 megapixels. Digital images have been subject to managed quality control and curation processes, which has embedded appropriate metadata within the image and will ensure long term accessibility of the image set.
- 4.3.6 The Leica GNSS surveyed the location of archaeological features. All survey data is recorded in OS National Grid coordinates and heights above OD (Newlyn), as defined by OSTN15 and OSGM15, with a three-dimensional accuracy of at least 50 mm.

4.4 Artefactual and environmental strategies

- 4.4.1 Guidelines for the treatment of artefacts was in general accordance with: *Guidance for the collection, documentation, conservation and research of archaeological materials* (ClfA 2014b) and *Environmental Archaeology: A Guide to the Theory and Practice of Methods, from Sampling and Recovery to Post-excavation* (English Heritage 2011). No samples were recovered during the archaeological investigations.

5 ARCHAEOLOGICAL RESULTS

5.1 Watching brief

Introduction

- 5.1.1 The following is a summary of the archaeological features and deposits recorded within the watching brief area. A complete list of contexts is presented in Appendix 1.
- 5.1.2 The watching brief was carried out in the area where trenches 23–30 had been excavated during a previous evaluation of the site (AWYAS 2019). The area was divided into two by a water main exclusion area (Fig. 1). Six boreholes were initially monitored but no evidence of shafts was identified.

Post Medieval Features

- 5.1.3 During the strip of the site at least 99 features identified as possible bell pits or mine shafts were recorded across the watching brief area. Whilst it is not possible to definitively identify all these features as either bell pits or mine shafts, for the sake of brevity they will be referred to in this report as shafts. Those features whose base could not be found and whose full depth could not be ascertained may be more likely to be the remains of mine shafts. The shafts were fairly evenly spread around the watching brief area (PIs 1 and 2). An issue with survey data has meant that it is not possible to exactly locate each shaft.
- 5.1.4 The shafts recorded across the site had surface diameters of between 1.2 m and 5.8 m (PI. 3). Due to the considerable depth of the features and unstable ground conditions these features were photographed and recorded but were not hand-excavated because of the risk of collapse (PIs 4 and 5).
- 5.1.5 These features were generally circular in plan, although several (1058–1062) appeared circular on the surface but became rectangular as they were excavated. Fills were often grey silty clay deposits containing coal and charcoal. Where it was possible to examine the internal shape of the features, they tended to have vertical sides which belled out towards the base.



Modern features

- 5.1.6 A layer of crushed modern pottery mixed with CBM (603) was interpreted as a modern dump deposit.
- 5.1.7 A field drain (805) was identified in the southern part of the site close to a brook.
- 5.1.8 An irregular flagstone floor with walls on its east and west edges (1068) was recorded in Area A. The flagstones appeared to be concrete, but the bonding material could not be identified. Asbestos was found in layers above and so investigation was minimal. The floor is thought to be associated with the Broomy Farm building that stood on the site prior to construction of the sewage works.

5.2 Strip, map and record excavation

Introduction

- 5.2.3 The following is a summary of the archaeological features and deposits recorded within the strip, map and record (SMR) area. A complete list of contexts is presented in Appendix 1.
- 5.2.1 The archaeological features identified across the site comprised six medieval/post medieval furrows and 17 modern pits. The pits are thought to have been dug for clay extraction.
- 5.2.2 A modern service ran across the site. Land drains were also evident on the site; where a relationship could be established, these could be seen to pre-date the pits.
- 5.2.3 The area stripped extended farther to the south-east than that set out in the WSI for the works due to a problem with survey equipment.

Soil sequence and natural deposits

- 5.2.4 The natural geological substrate (101) comprised mid greyish-yellow clay with rounded gravel inclusions and occasional lenses of mid orange silty clay. This was encountered at a maximum depth of 0.46 m below ground level.
- 5.2.5 A dark greyish black coal seam (176) was discovered at around 0.50 m below ground level in the north-western corner of the site.
- 5.2.6 The topsoil (100) comprised a dark brown silty clay and was 0.25–0.46 m thick.

Pits

- 5.2.7 The chief archaeological remains encountered on the site were 17 pits, which were located in its western half (Fig. 2). These appeared to continue beyond the site to the north-west. The pits are all believed to be contemporary and have been interpreted as clay extraction pits, perhaps related to pottery works in nearby Woodville.
- 5.2.8 Although the pits differed in size and shape, they had very similar fills. Following their excavation all appeared to have been partially backfilled with the topsoil that had been removed during their excavation. This was then covered by a dark grey material containing quantities of local pottery, including mis-fired sherds, and kiln furniture, the presence of which indicates the material derived from one or more of the former pottery works known nearby.



- 5.2.9 Safety procedures meant that those pits deeper than 1.2 m were not bottomed, this being the case for ten of the seventeen exposed. Due to the abundance of modern finds in the features, only a sample of artefacts was collected from each artefact-bearing context.
- 5.2.10 The dimensions of the pits are tabulated below, and the features are described in the text that follows.

Table 1 Pit dimensions

Feature	Length (m)	Width (m)	Depth (m)
102	>2.65	2.20	0.84
105	4.00	2.50	0.95
109	2.00	1.80	1.00
112	3.03	2.29	>1.20
117	3.10	2.50	>1.20
132	>1.90	2.20	>1.20
137	>2.90	2.10	>1.20
142	>3.10	0.80	>1.20
145	2.95	4.00	>1.20
150	>3.20	4.00	1.10
152	2.60	3.50	0.75
155	1.70	3.50	0.90
157	2.25	2.00	>1.20
162	2.10	1.60	>1.20
166	5.10	>2.50	>1.20
170	1.80	2.00	0.60
172	2.35	2.40	>1.20

- 5.2.11 Pit 102, at the north-west corner of the site had an elongated form and extended beyond the limit of excavation to the north-west. It had irregular sides and was almost bell-shaped in section. The primary fill (103) was a mid-brown silty clay with occasional charcoal, coal and sub-rounded gravel inclusions, thought to represent the topsoil removed in the excavation of the pit. The uppermost fill (104) was dark blackish-brown sandy silt with abundant coal, charcoal, sub-rounded gravel. A similar sequence of fills was present in most of the other pits excavated, which also contained modern (1800+) pottery, probably waste material deriving from the nearby pottery industry.
- 5.2.12 Pit 105 lay between pit 137 to the north-east and 102 to the south-west and also extended beyond the limit of excavation to the north-west. The pit was elongated and had irregular sides (Fig. 3, Section 1). Fills had the same appearance as in pit 102 with the addition of a fill 108 with the same appearance as its lowermost fill (106). Modern pottery was gathered from all fills.
- 5.2.13 Pit 112 and 172 were situated close to each other, with pit 112 lying close to the limit of excavation and pit 172 to its north. Both pits were circular, and their sides were partially stepped (Fig. 3, Sections 2 and 5). The fills of both features resembled those in pit 102 (Pls 6 and 10). Pit 112 had an additional uppermost fill (113) with the same appearance as its lowermost fill (115). Modern pottery was gathered from all fills.



- 5.2.14 Pit 117 continued beyond the south-west limit of excavation, it was circular in plan with stepped sides (Pl. 7); its fills had the same appearance as those pit 102. Modern pottery was gathered from the three latest fills.
- 5.2.15 Pit 109 was situated near southern limit of excavation, with pit 157 to the north-west and partially surrounded by disturbed layer 116 (see below). The pit was circular in plan and had funnel-shaped sides; its fills had the same appearance as those in pit 102 and modern pottery was gathered from all fills.
- 5.2.16 Pit 132 continued beyond the south-western limit of excavation, it was circular in plan with concave sides. Its fills had the same appearance as those in pit 102, with the addition of a redeposited natural (133) as the lowermost fill and a mid-brown silty clay (136) uppermost fill. Modern pottery was gathered from the three highest fills.
- 5.2.17 Pit 137 extended beyond the north-western limit of excavation; its fills had the same appearance as pit 102, with the addition of pit 137 having redeposited natural at the base. Modern pottery was again present. Pit 137 cut pit 142.
- 5.2.18 Pit 145 was one of the larger examples and, perhaps unsurprisingly, contained one of the largest finds assemblages (1032 g). The pit had stepped sides and was sub-oval in plan (Fig. 3, Section 3). Four fills were recorded in the section and all have the same appearance as fills in the pits in the surrounding area. Modern pottery was gathered from all fills.
- 5.2.19 Three pits (150, 152 and 155) were unlike the others as they possibly represented an attempt to extract clay but instead encountered a coal seam (176). The pits had concave sides and were sub oval in plan (Pl. 8). Pits 152 and 155 extended into the north-eastern limit of excavation and pit 150 extended beyond the north-western limit of excavation. All pits were filled with redeposited natural mixed and lenses of coal. These pits produced no artefacts.
- 5.2.20 Pit 157 lay between pit 109 to the south-east and pit 117 to the north-west. It was circular in plan with stepped sides (Pl. 9). Fills had the same appearance as those in pit 102 with the addition of fill 160, uppermost in the sequence, which resembled the lowermost fill (158). Modern pottery was present throughout.
- 5.2.21 Pit 162 was located north of pit 117; it was circular in plan and had a funnel-shaped profile (Fig. 3; Section 4). Its fills had the same appearance as those in pit 102, with the addition a redeposited natural lowermost fill (163). Post-medieval pottery was gathered from the three highest fills.
- 5.2.22 Pits 170 and 166 appeared conjoined in plan. No obvious relationship between them could be discerned, they may have been backfilled simultaneously. Their fills had the same appearance as the sequence recorded in pit 102, with the addition of pit 166 having redeposited natural (168) at the base. Modern pottery was gathered from all fills.

Agricultural remains

- 5.2.23 Six furrows were recorded at the east of the site (Figs 2 and 3, Section 6 and Pl. 11), orientated north-east to south-west. Datable artefacts gathered from the furrows were all modern, the assemblage contained kiln furniture and, in sum, resembled the material recovered from the pits. Land drains, which post-dated the furrows, were also observed on the site.



Other

- 5.2.24 A layer of disturbance comprising a layer of dark brown silty clay (116) was encountered against the south-western limit of excavation. It extended for some 30 m, was at least 6.5 m wide and had a maximum thickness of 0.15 m. The layer had similar characteristics to the lowermost fill seen in most of the pits and is believed to be contemporary with them, although no finds were recovered.
- 5.2.25 A modern service trench crossed the southern part of the site on an east–west alignment.

6 ARTEFACTUAL EVIDENCE

6.1 Introduction

- 6.1.1 The assemblage recovered from the site is of moderate size. Nearly all finds were recovered from the stripped area, with just a few fragments from the watching brief.
- 6.1.2 All datable finds are of post-medieval/modern date, and of particular interest is the recovery of a small group of pottery wasters and kiln furniture deriving from pottery manufacture in the vicinity of the site. The assemblage thus has some limited potential to explore the regional research objective of ‘developing our understanding of the manufacture of pottery’ (East Midlands Historic Environment Research Framework n.d., objective 9.7).
- 6.1.3 All finds have been quantified by material type within each context, and the results are presented in Table 2.

Table 2 All finds by context (number/weight in grammes)

Context	CBM	Other Ceramic	Pottery	Other finds
WATCHING BRIEF				
1075		6/329	5/58	
SMR				
103			4/37	2 clay pipe
106		1/17	4/87	1 clay pipe; 1 lead
107		3/40	7/160	1 glass
108	1/50	3/26	2/15	
110			12/155	1 clay pipe
111			6/60	
113		3/44	3/12	
114		1/9	5/38	
115		6/1161	6/342	
118			5/40	
119	4/36	2/22	7/122	
123			2/2	
125		1/4	4/3	
127		2/9	3/6	
129	1/10	1/12	3/16	
131		1/18	4/27	



Context	CBM	Other Ceramic	Pottery	Other finds
134		1/4		
135			1/41	1 clay pipe
136	1/43			
139		3/45	3/51	
140	1/11	1/14	6/55	
143			1/11	1 iron
144			2/8	1 iron
146		1/198	1/20	
147		6/104	10/382	
148		1/22	3/117	
149		4/48	4/141	
158			2/6	
159			2/3	
160			6/30	
164			2/3	
165	1/81	1/270		
167		2/18	3/70	
169			7/89	
171			4/15	
173			3/68	
174			5/87	2 clay pipe
Totals	9/231	50/2414	147/2377	

CBM = ceramic building material

6.2 Pottery

Introduction

- 6.2.1 The pottery assemblage amounts to 147 sherds, weighing 2377 grammes, all of post-medieval/modern date, and most if not all is likely to represent industrial rather than domestic refuse. A significant proportion of the assemblage is made up of wasters in the form of biscuit wares and mis-fired sherds, and the remainder appears to consist mostly if not entirely of other products of the local pottery industry. The majority of the assemblage was recovered from a series of pits interpreted as clay extraction pits.

Methods of assessment

- 6.2.2 The assemblage has been quantified (sherd count and weight) by ware type within each context; Table 1 gives a quantified breakdown of the assemblage by ware type. Details of identifiable vessel form (where known) and decoration have also been recorded. Estimated Vessel Equivalents (EVEs) have not been used as many of the rims have unmeasurable diameters; as an alternative means of quantification, the maximum Number of Vessels (MNV) has been used, counting each non-joining sherd as a separate vessel except where there is a high probability of a context containing same-vessel sherds (the fragmentation of the assemblage is reflected in the total MNV, which is 143). The level of recording accords with the 'basic record' advocated for the purpose of characterizing an assemblage rapidly (Barclay *et al* 2016, section 2.4.5). A full breakdown of pottery by context is given in Appendix 2.

Table 3 Pottery totals by ware type

Ware type	No. sherds	Weight (g)
Biscuit ware	71	1200
Black-glazed redware	4	83
Bone china	1	6
Cane-coloured ware	7	104
Creamware	1	25
English stoneware	1	2
Feldspathic-glazed stoneware	1	13
Pearlware	2	6
Redware	2	102
Refined whiteware	14	112
Rockingham ware	7	357
Yellow ware	36	367
Total	147	2377

The assemblage

- 6.2.3 Approximately half of the assemblage comprises biscuit wares, ie, vessels that have gone through the first (biscuit) firing but not the second (glost) firing where the glaze is added. These are sufficient to demonstrate that the products represented are largely yellow or cane-coloured wares, and these are also well represented amongst the glazed wares. Most of the yellow and cane-coloured wares are slip-decorated, by banding and/or with mocha designs. Vessel forms include flared bowls with simple rounded or flat rims, chamber pots and rounded jugs. Larger kitchen bowls, internally white-slipped and with external moulded decoration were also made.
- 6.2.4 Some of the biscuit wares could have been intended for Rockingham wares – vessels covered in a mottled treacle-coloured glaze containing iron and manganese. Rockingham ware was used particularly for teapots and coffee pots, often with moulded decoration, both of which are represented here amongst both biscuit and glazed wares.
- 6.2.5 Other wares make up a negligible proportion of the assemblage; there are one or two sherds of biscuit ware which could belong to whitewares, as well as one possible mis-fired glazed sherd, but otherwise the whitewares, most of which are transfer-printed, are not sufficiently homogeneous to suggest that these represent manufacturing waste, and they could well be incidentally incorporated domestic refuse. The same applies to the creamware, pearlware, bone china, redwares (both glazed and unglazed) and stonewares. In terms of date range, while the pearlware and creamware sherds could be later 18th-century, and the glazed redwares could potentially date earlier in the post-medieval period, none of the pottery would be inconsistent with a date range in the 19th to 20th century.
- 6.2.6 South Derbyshire, due to the presence of good quality clay and coal resources, became a centre of pottery manufacture in the post-medieval period, and the towns of Swadlincote and Woodville were the location for a number of pottery works in the 19th and 20th centuries, many of which were known specifically for Rockingham, yellow and cane-coloured wares. Any of these could have dumped pottery waste in the disused clay extraction pits on the site. Anecdotal evidence from a local resident suggested that it came from Sharpe's pottery works in Swadlincote, but the only two pieces with



backstamps belong to Thompson Brothers, who were based at the Hartshorn (sometimes Hartshorne) Pottery in Woodville.

- 6.2.7 The company appear in trade directories between 1857 and 1874, where they are listed as “manufacturers of ‘ironstone earthenware, Rockingham ware, brownstone ware...” (http://freepages.rootsweb.com/~brett/genealogy/woodville/wood_tdir.htm).

6.3 Other ceramics

- 6.3.1 This category consists of kiln furniture relating to pottery production. There are eight fragments from saggars (cylindrical vessels made of refractory clay in which smaller, more delicate vessels were stacked during firing. None of these fragments shows any signs of glaze, suggesting that their use was confined to biscuit firing.

- 6.3.2 The remainder includes fragments of three-legged stilts and trivets (Barker 1991, pls 40–2). These are regularly formed; the trivets are clearly the products of mechanized production and are stamped on the back with the initials C.F. and a number (either 5 or 7). These objects helped to support and separate vessels during firing. Other fragments are more irregular and appear to have been formed by the rolling of clay into bars, either circular, ovoid or flattened in cross-section. The function of these pieces is uncertain; they could have been used, for example, as supports in conjunction with saggars (*ibid.*, pl. 44).

6.4 Other finds

Other finds comprise small quantities of ceramic building material (brick and roof tile fragments), clay tobacco pipes (stem fragments only, one from a spurred pipe), glass (one bottle neck) and metal (two iron nails, one lead window came fragment). None of these would be inconsistent with a 19th-/20th-century date range.

7 CONCLUSIONS

7.1 Summary

- 7.1.1 The watching brief successfully identified extraction shafts previously identified during an evaluation of the site (ASWYAS 2019). A total of 99 shafts, spread fairly evenly across the watching brief area were identified. Although the shafts were recorded on site, a problem with survey data has meant that it is not possible to locate these shafts accurately in this report. Hand excavation was not possible due to the depth of the shafts. Post medieval pottery was recovered from the fills of one of the shafts during remediation works. It is possible to conclude from the shape (vertical sides, bellling out towards the base) and depth of the shafts that these were extraction workings.

- 7.1.2 During strip, map and record works the north-western part of the site was found to contain 17 pits. To their south-east an arrangement of six parallel furrows was recorded. These appeared to peter out to the south-west. A trampled layer thought to be associated with the pits, along with modern disturbance, were also recorded.

- 7.1.3 The pits are presumed to have been dug for the purposes of clay extraction, with the clay used in the nearby pottery industry. The artefactual evidence suggests the pits are likely to be broadly contemporary with each other and were probably infilled in the 19th–20th century. The backfill contained quantities of local pottery, including mis-fired sherds, and kiln furniture, the presence of which indicates the material derived directly from one or more of the former pottery works known nearby.



7.2 Discussion

- 7.2.1 The programme of archaeological investigations was largely successful in meeting its aims and objectives.
- 7.2.2 The watching brief confirmed that there are remains associated with coal workings within the site and recorded and monitored their excavation during remediation. It has been unable to locate the working exactly but has recorded that such workings took place across the area.
- 7.2.3 Post-medieval pottery recovered from the fills of one of the shafts suggests they are associated with post-medieval coal workings on Woodville Road (HER No 20236).
- 7.2.4 As the results summarized above indicates, the SMR investigations successfully characterized the origin, date, preservation and significance of the archaeological remains in the area they examined
- 7.2.5 The features found within trenches 3 and 4 of the evaluation (ASWYAS 2019) would appear to equate to the furrows and clay extraction pits recorded in the same area during the SMR investigations. No features commensurate with the field boundaries detected by the geophysical survey and recorded in the evaluation were apparent within the SMR results. It is possible that the features interpreted as boundary ditches within the evaluation report were actually pits, the discrete form of which was not present within the window afforded by the evaluation trenches. For example, in its size and funnel-shaped profile, 'ditch' 407 recorded within the evaluation (ASWYAS 2019) strongly resembles the clay extraction pits exposed within the SMR. Within this scenario, the geophysical anomalies may represent ditch fills incorporated by plough-levelling into the modern topsoil following the erasure of their parent features.
- 7.2.6 The site contains evidence for the extraction of raw material related to two activities historically attested in the local area: coal-mining and pottery production. That waste products from the local ceramics industry then entered the site is also of some interest, with the pottery assemblage preserving a 'snapshot' of some of the types of wares produced during the 19th and 20th centuries. Some can be linked to a known manufacturer (two sherds have backstamps belonging to Thompson Brothers, who were based at the Hartshorn (sometimes Hartshorne) Pottery in Woodville). The pottery assemblage therefore appears to have some limited potential to explore the regional research objective of developing understanding of the manufacture of pottery.
- 7.2.7 It has been established that the site would appear to have little to contribute to any research aims relating to agriculture in the post-medieval and modern period.

8 STORAGE AND CURATION

8.1 Preparation of the archive

Physical archive

- 8.1.1 The physical archive, which includes paper records, graphics and artefacts, will be prepared following the standard conditions for the acceptance of excavated archaeological material by Derby Museum and Art Gallery, and in general following nationally recommended guidelines (SMA 1995; ClfA 2014c; Brown 2011).
- 8.1.2 All archive elements will be marked with the accession code, and a full index will be prepared. The physical archive currently comprises the following:

- 2 cardboard boxes of artefacts, ordered by material type;
- 1 file of paper records and A3/A4 graphics;

Digital archive

- 8.1.3 The digital archive generated by the project, which comprises born-digital data (eg, site records, survey data, databases and spreadsheets, photographs and reports), will be deposited with a Trusted Digital Repository, in this instance the Archaeology Data Service (ADS), to ensure its long-term curation. Digital data will be prepared following ADS guidelines (ADS 2013 and online guidance) and accompanied by full metadata.

8.2 Selection strategy

- 8.2.1 It is widely accepted that not all the records and materials (artefacts and ecofacts) collected or created during the course of an archaeological project require preservation in perpetuity. These records and materials will be subject to selection in order to establish what will be retained for long-term curation, with the aim of ensuring that all elements selected to be retained are appropriate to establish the significance of the project and support future research, outreach, engagement, display and learning activities, ie, the retained archive should fulfil the requirements of both future researchers and the receiving Museum.
- 8.2.2 The selection strategy, which details the project-specific selection process, is underpinned by national guidelines on selection and retention (Brown 2011, section 4) and generic selection policies (SMA 1993; Wessex Archaeology's internal selection policy) and follows ClfA's 'Toolkit for Selecting Archaeological Archives'. It should be agreed by all stakeholders (Wessex Archaeology's internal specialists, external specialists, local authority, museum) and fully documented in the project archive.
- 8.2.3 Project-specific proposals for selection are presented below. These proposals are based on recommendations by Wessex Archaeology's internal specialists and will be updated in line with any further comment by other stakeholders (museum, local authority). The selection strategy will be fully documented in the project archive.
- 8.2.4 Any material not selected for retention may be used for teaching or reference collections by Wessex Archaeology. Table 4 summarizes the selection and deposition strategy.

Finds

- Pottery: this is a small assemblage, all redeposited, but its interest lies in the presence of production waste. This is not unexpected for the area but serves as a 'snapshot' of some of the types of wares produced during the 19th and 20th centuries, some of which can be linked to a known manufacturer. Limited archaeological significance; some further research potential (see regional research objective 9.7). Recommendation to retain all.
- Kiln furniture: a small assemblage, all redeposited, but of interest given the association with pottery production. Limited archaeological significance (see regional research objective 9.7); some further research potential. Recommendation to retain all.
- Ceramic building material: very small quantities, all redeposited; all of relatively recent date. Little or no archaeological significance, no further research potential. Recommendation to retain none.



- Clay tobacco pipe: very small quantities, all redeposited; none of closely datable form. Little or no archaeological significance, no further research potential. Recommendation to retain none.
- Glass: one fragment only, of relatively recent date and common form. No archaeological significance, no further research potential. Recommendation to retain none.
- Metalwork: three objects only, all redeposited; none closely datable. No archaeological significance, no further research potential. Recommendation to retain none.

Documentary records

- 8.2.5 Paper records comprise site registers (other pro-forma site records are digital), drawings and reports (Written Scheme of Investigation, client report). All will be retained and deposited with the project archive.

Digital data

- 8.2.6 The digital data comprise site records (tablet-recorded on site) in spreadsheet format; finds records in spreadsheet format; survey data; photographs; reports. All will be deposited, although site photographs will be subject to selection to eliminate poor quality and duplicated images, and any others not considered directly relevant to the archaeology of the site.

Table 4 Archive selection and deposition strategy

Class	Element	Quantification	Depository	Format
Physical archive	Paper records	1 A4 file	Derby Museum	N/A
	Pottery	147 sherds	Derby Museum	N/A
	Kiln furniture	50 fragments	Derby Museum	N/A
	All other finds	20 objects/fragments	Discard	N/A
Digital archive	Report	1 (5 MB)	ADS	.pdf
	Digital recording sheets	91 (c. 10 MB)	ADS	.pdf
	Images	c. 20 (c. 400 MB)	ADS	.jpg
	Finds database	20 KB	ADS	.csv
	Survey	700 KB	ADS	.dxf (vector graphics)

8.3 Security copy

- 8.3.1 In line with current best practice (eg, Brown 2011), on completion of the project a security copy of the written records will be prepared, in the form of a digital PDF/A file. PDF/A is an ISO-standardized version of the Portable Document Format (PDF) designed for the digital preservation of electronic documents through omission of features ill-suited to long-term archiving.

8.4 OASIS

- 8.4.1 An OASIS online record (<http://oasis.ac.uk/pages/wiki/Main>) has been initiated for the watching brief (wessexar1-343458) and another for the SMR works (wessexar1-364609) with key fields completed. A .pdf version of the final report will be submitted upon completion of the project. Subject to any contractual requirements on confidentiality,



copies of the OASIS record will be integrated into the relevant local and national records and published through the Archaeology Data Service ArchSearch catalogue.

9 COPYRIGHT

9.1 Archive and report copyright

- 9.1.1 The full copyright of the written/illustrative/digital archive relating to the project will be retained by Wessex Archaeology under the *Copyright, Designs and Patents Act 1988* with all rights reserved. The client will be licenced to use each report for the purposes that it was produced in relation to the project as described in the specification. The museum, however, will be granted an exclusive licence for the use of the archive for educational purposes, including academic research, providing that such use conforms to the *Copyright and Related Rights Regulations 2003*. In some instances, certain regional museums may require absolute transfer of copyright, rather than a licence; this should be dealt with on a case-by-case basis.
- 9.1.2 Information relating to the project will be deposited with the Historic Environment Record (HER) where it can be freely copied without reference to Wessex Archaeology for the purposes of archaeological research or development control within the planning process.

9.2 Third party data copyright

- 9.2.1 This document and the project archive may contain material that is non-Wessex Archaeology copyright (eg, Ordnance Survey, British Geological Survey, Crown Copyright), or the intellectual property of third parties, which Wessex Archaeology are able to provide for limited reproduction under the terms of our own copyright licences, but for which copyright itself is non-transferable by Wessex Archaeology. Users remain bound by the conditions of the *Copyright, Designs and Patents Act 1988* with regard to multiple copying and electronic dissemination of such material.

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APPENDICES

Appendix 1: Context summary

Watching brief

Context No	Type	Interpretation	Fill of/Filled with	Description	Depth
0101	Layer	Topsoil	N/A	Mid greyish brown silty clay.	0 - 0.3m
0102	Layer	Subsoil	N/A	Light greyish brown silty clay.	0.3-0.45m
0103	Layer	Natural	N/A	Light yellowish orange silty clay.	0.45m - Unknown
0104	Layer	Natural	N/A	Coal deposit. Dark black with coal inclusions.	0.45m - Unknown
0105	Fill	Fill of shaft/bell pit.	0106	Mottled grey, black and orange clay with coal inclusions.	0.45m - Unknown
0106	Cut	Cut of shaft associated with coal extraction.	105	Subcircular, vertical sides, 1.3 x 1.0 m.	0.45m - Unknown
0201	Layer	Topsoil	N/A	Mid greyish brown silty clay.	0 - 0.3m
0202	Layer	Subsoil	N/A	Light yellowish orange silty clay with light grey patches.	0.3-0.45m
0301	Layer	Topsoil	N/A	Mid greyish brown silty clay.	0 - 0.3m
0302	Layer	Subsoil	N/A	Light greyish brown silty clay.	0.3-0.45m
0303	Layer	Natural	N/A	Light yellowish orange clay with grey patches.	0.45m - Unknown
0304	Fill	Fill of potential bell pit.	0305	Black, yellow and orange clay with coal inclusions.	0.45m - Unknown
0305	Cut	Cut of shaft associated with coal extraction.	0304	Subcircular, vertical sides, 1.0 x 1.5 m. Unknown depth.	0.45m - Unknown
0401	Layer	Topsoil	N/A	Mid greyish brown silty clay.	0 - 0.3m
0402	Layer	Subsoil	N/A	Light greyish brown silty clay.	0.3-0.45m
0403	Layer	Natural	N/A	Orange, grey and brown with coal dust patches.	0.45m - Unknown
0501	Layer	Topsoil	N/A	Mid greyish brown silty clay.	0 - 0.3m
0502	Layer	Subsoil	N/A	Light greyish brown silty clay.	0.3-0.45m
0503	Layer	Natural	N/A	Yellow, grey and orange silty clay.	0.45m - Unknown
0601	Layer	Topsoil	N/A	Mid greyish brown silty clay.	0 - 0.3m
0602	Layer	Subsoil	N/A	Light greyish brown silty clay.	0.3-0.45m
0603	Layer	Deposit on surface	N/A	Crushed modern pot mixed with CBM.	0
0701	Layer	Topsoil	N/A	Mid greyish brown silty clay with CBM inclusions.	0 - 0.3m
0702	Layer	Subsoil	N/A	Light greyish brown silty clay with patches of crushed brick.	0.3-0.45m
0703	Layer	Natural	N/A	Light yellowish grey silty clay with nearby coal seam visible.	0.45m - Unknown
0801	Layer	Topsoil	N/A	Turf and vegetation.	0 - 0.3m
0802	Layer	Topsoil	N/A	Dark brown silty clay and sand.	0 - 0.3m
0803	Layer	Subsoil	N/A	Dirty yellow silty clay.	0.3-0.45m
0804	Layer	Natural	N/A	Yellow clay with sandy patches.	0.45m - Unknown
0805	Cut	Cut of field drain.	806	Linear, steep sides	0.45m - 0.7m
0806	Fill	Fill of field drain 0805	0805	Dark grey clay with coal and charcoal flecks.	0.45m - 0.7m
0901	Layer	Topsoil	N/A	Dark brown sandy clay.	0 - 0.3m
0902	Layer	Subsoil	N/A	Mid greyish brown sandy clay.	0.3-0.45m
0903	Layer	Natural	N/A	Yellow clay with coal patches.	0.45m - Unknown
1000	Layer	Topsoil	N/A	Dark brown sandy clay.	0 - 0.3m
1001	Layer	Topsoil	N/A	Dark brown sandy clay.	0 - 0.3m
1002	Layer	Subsoil	N/A	Mid greyish brown sandy clay.	0.3-0.45m
1003	Layer	Natural	N/A	Yellowish orange clay with grey patches.	0.45m - Unknown
1004	Fill	Fill of shaft/bell pit.	1168	Light grey silty clay.	0.45m - Unknown
1005	Fill	Fill of shaft/bell pit.	1169	Light grey silty clay.	0.45m - Unknown



Context No	Type	Interpretation	Fill of/Filled with	Description	Depth
1006	Fill	Fill of shaft/bell pit.	1170	Grey, black and yellow silty clay.	0.45m - Unknown
1007	Fill	Fill of shaft/bell pit.	1171	Light grey silty clay.	0.45m - Unknown
1008	Fill	Fill of shaft/bell pit.	1172	Grey and black silty clay with coal inclusions.	0.45m - Unknown
1009	Fill	Fill of shaft/bell pit.	1173	Light grey silty clay.	0.45m - Unknown
1010	Fill	Fill of shaft/bell pit.	1174	Light grey silty clay.	0.45m - Unknown
1011	Fill	Fill of shaft/bell pit.	1175	Grey and black silty clay.	0.45m - Unknown
1012	Fill	Fill of shaft/bell pit.	1176	Light grey silty clay.	0.45m - Unknown
1013	Fill	Fill of shaft/bell pit.	1177	Grey and black silty clay.	0.45m - Unknown
1014	Fill	Fill of shaft/bell pit.	1178	Light grey silty clay.	0.45m - Unknown
1015	Fill	Fill of shaft/bell pit.	1179	Grey and black silty clay with coal inclusions.	0.45m - Unknown
1016	Fill	Fill of shaft/bell pit.	1180	Light grey silty clay.	0.45m - Unknown
1017	Fill	Fill of shaft/bell pit.	1181	Grey and black silty clay with coal inclusions.	0.45m - Unknown
1018	Fill	Fill of shaft/bell pit.	1182	Light grey silty clay.	0.45m - Unknown
1019	Fill	Fill of shaft/bell pit.	1183	Light grey silty clay.	0.45m - Unknown
1020	Fill	Fill of shaft/bell pit.	1184	Light grey silty clay.	0.45m - Unknown
1021	Fill	Fill of shaft/bell pit.	1185	Grey and black silty clay with coal inclusions.	0.45m - Unknown
1022	Fill	Fill of shaft/bell pit.	1186	Grey and black silty clay.	0.45m - Unknown
1023	Fill	Fill of shaft/bell pit.	1187	Grey and black silty clay.	0.45m - Unknown
1024	Fill	Fill of shaft/bell pit.	1188	Grey and black silty clay.	0.45m - Unknown
1025	Fill	Fill of shaft/bell pit.	1189	Grey and black silty clay.	0.45m - Unknown
1026	Fill	Fill of shaft/bell pit.	1190	Light grey silty clay.	0.45m - Unknown
1027	Fill	Fill of shaft/bell pit.	1191	Light grey silty clay.	0.45m - Unknown
1028	Fill	Fill of shaft/bell pit.	1192	Light grey silty clay.	0.45m - Unknown
1029	Fill	Fill of shaft/bell pit.	1193	Light grey silty clay.	0.45m - Unknown
1030	Fill	Fill of shaft/bell pit.	1194	Light grey silty clay.	0.45m - Unknown
1031	Fill	Fill of shaft/bell pit.	1195	Light grey silty clay.	0.45m - Unknown
1032	Fill	Fill of shaft/bell pit.	1196	Light grey silty clay.	0.45m - Unknown
1033	Fill	Fill of shaft/bell pit.	1197	Grey and black silty clay.	0.45m - Unknown
1034	Fill	Fill of shaft/bell pit.	1198	Grey and black silty clay.	0.45m - Unknown
1035	Fill	Fill of shaft/bell pit.	1199	Light greyish brown silty clay.	0.45m - Unknown
1036	Fill	Fill of shaft/bell pit.	2500	Greyish black silty clay.	0.45m - Unknown
1037	Fill	Fill of shaft/bell pit.	2501	Light greyish brown silty clay.	0.45m - Unknown
1038	Fill	Fill of shaft/bell pit.	2502	Light greyish brown silty clay.	0.45m - Unknown
1039	Fill	Fill of shaft/bell pit.	2503	Dark greyish black clay and coal.	0.45m - Unknown
1040	Fill	Fill of shaft/bell pit.	2504	Mid grey silty clay with coal flecks.	0.45m - Unknown
1041	Fill	Fill of shaft/bell pit.	2505	Mid greyish black silty clay.	0.45m - Unknown
1042	Fill	Fill of shaft/bell pit.	2506	Light grey silty clay.	0.45m - Unknown
1043	Fill	Fill of shaft/bell pit.	2507	Mid greyish black silty clay with coal flecks.	0.45m - Unknown
1044	Fill	Fill of shaft/bell pit.	1058	Greyish black silty clay with coal inclusions.	0.45m - Unknown
1045	Fill	Fill of shaft/bell pit.	2508	Greyish black silty clay with coal flecks.	0.45m - Unknown
1046	Fill	Fill of shaft/bell pit.	2509	Light grey silty clay with coal flecks.	0.45m - Unknown
1047	Fill	Fill of shaft/bell pit.	2510	Mid greyish brown silty clay with coal flecks.	0.45m - Unknown
1048	Fill	Fill of shaft/bell pit.	2511	Mid blackish grey silty clay with coal flecks.	0.45m - Unknown
1049	Fill	Fill of shaft/bell pit.	2512	Greyish black silty clay with coal flecks.	0.45m - Unknown
1050	Fill	Fill of shaft/bell pit.	2513	Mid greyish black silty clay with coal flecks.	0.45m - Unknown
1051	Fill	Fill of shaft/bell pit.	2514	Grey and black silty clay with coal inclusions.	0.45m - Unknown
1052	Fill	Fill of shaft/bell pit.	2515	Grey and black silty clay with coal flecks.	0.45m - Unknown
1053	Fill	Fill of shaft/bell pit.	2516	Grey and black silty clay with coal flecks.	0.45m - Unknown
1054	Fill	Fill of shaft/bell pit.	2517	Fill of possible mine shaft.	0.45m - Unknown



Context No	Type	Interpretation	Fill of/Filled with	Description	Depth
1055	Fill	Fill of shaft/bell pit.	2518	Grey and black silty clay with coal flecks.	0.45m - Unknown
1056	Fill	Fill of shaft/bell pit.	2519	Light grey silty clay.	0.45m - Unknown
1057	Fill	Fill of shaft/bell pit.	2520	Fill of possible mine workings.	0.45m - Unknown
1058	Cut	Cut of shaft associated with coal extraction.	1044	Ill-defined, vertical edges.	0.45m - Unknown
1059	Fill	Fill of shaft/bell pit.	2521	Black gritty coal dust.	0.45m - Unknown
1060	Fill	Fill of shaft/bell pit.	2522	Greyish brown and orange silty clay.	0.45m - Unknown
1061	Fill	Fill of shaft B17.	1062	Grey and black. Fill of mine shaft.	
1062	Cut	Cut of shaft associated with coal extraction.	1061	Ill-defined, vertical edges.	0.45m - Unknown
1063	Fill	Fill of shaft/bell pit.	2523	Grey and black silty clay with coal inclusions. Fill of mine shaft.	0.45m - Unknown
1064	Fill	Fill of shaft/bell pit.	1065	Mid greyish black silty clay with frequent coal flecks.	0.45m - Unknown
1065	Cut	Cut of shaft associated with coal extraction.	1064	Ill-defined, vertical edges.	0.45m - Unknown
1066	Cut	Cut of shaft associated with coal extraction.	1067	Ill-defined, vertical edges.	0.45m - Unknown
1067	Fill	Fill of shaft/bell pit.	1066	Dark greyish black with whitish grey patches, silty sand. Coal and charcoal inclusions.	0.45m - Unknown
1068	Structure	Floor. Possibly associated with former Broomy Farm building in Area A.	N/A	Irregular floor with concrete walls to east and west edges.	0.3m – 0.45m
1069	Cut	Cut of shaft associated with coal extraction.	1070	Ill-defined, vertical edges.	0.45m - Unknown
1070	Fill	Fill of shaft/bell pit.	1069	Dark bluish grey clay with coal inclusions.	0.45m - Unknown
1071	Cut	Cut of shaft associated with coal extraction.	1072	Ill-defined, vertical edges.	0.45m - Unknown
1072	Fill	Fill of shaft/bell pit.	1071	Dark bluish grey clay with coal inclusions.	0.45m - Unknown
1073	Cut	Cut of shaft associated with coal extraction.	1074	Ill-defined, vertical edges.	0.45m - Unknown
1074	Fill	Fill of shaft/bell pit.	1073	Dark bluish black clay with coal inclusions.	0.45m - Unknown
1075	Cut	Cut of shaft associated with coal extraction.	1076	Ill-defined, vertical edges.	0.45m - Unknown
1076	Fill	Fill of shaft/bell pit.	1075	Light bluish grey clay with dark greyish black patches.	0.45m - Unknown
1077	Cut	Cut of shaft associated with coal extraction.	1078	Ill-defined, vertical edges.	0.45m - Unknown
1078	Fill	Fill of shaft/bell pit.	1077	Mid whitish grey clay with black patches and coal inclusions.	0.45m - Unknown
1079	Cut	Cut of shaft associated with coal extraction.	1080	Ill-defined, vertical edges.	0.45m - Unknown
1080	Fill	Fill of shaft/bell pit.	1079	Dark blackish grey clay with coal inclusions.	0.45m - Unknown
1081	Cut	Cut of shaft associated with coal extraction.	1082	Ill-defined, vertical edges.	0.45m - Unknown



Context No	Type	Interpretation	Fill of/Filled with	Description	Depth
1082	Fill	Fill of shaft/bell pit.	1081	Mid bluish grey clay with coal inclusions.	0.45m - Unknown
1083	Cut	Cut of shaft associated with coal extraction.	1084	Ill-defined, vertical edges.	0.45m - Unknown
1084	Fill	Fill of shaft/bell pit.	1083	Dark bluish grey clay with charcoal.	0.45m - Unknown
1085	Cut	Cut of shaft associated with coal extraction.	1086	Ill-defined, vertical edges.	0.45m - Unknown
1086	Fill	Fill of shaft/bell pit.	1085	Dark greyish black clay and coal.	0.45m - Unknown
1087	Cut	Cut of shaft associated with coal extraction.	1088	Ill-defined, vertical edges.	0.45m - Unknown
1088	Fill	Fill of shaft/bell pit.	1087	Dark greyish black clay and coal.	0.45m - Unknown
1089	Cut	Cut of shaft associated with coal extraction.	1090	Ill-defined, vertical edges.	0.45m - Unknown
1090	Fill	Fill of shaft/bell pit.	1089	Mid bluish black clay and charcoal.	0.45m - Unknown
1091	Cut	Cut of shaft associated with coal extraction.	1092	Ill-defined, vertical edges.	0.45m - Unknown
1092	Fill	Fill of shaft/bell pit.	1091	Dark black clay and coal.	0.45m - Unknown
1093	Cut	Cut of shaft associated with coal extraction.	1094	Ill-defined, vertical edges.	0.45m - Unknown
1094	Fill	Fill of shaft/bell pit.	1093	Black clay and coal.	0.45m - Unknown
1095	Layer	Natural	N/A	Coal	0.45m - Unknown
1096	Fill	Fill of shaft/bell pit.	1097	Dirty mid grey silty clay with yellow patches.	0.45m - Unknown
1097	Cut	Cut of shaft associated with coal extraction.	1096	Ill-defined, vertical edges.	0.45m - Unknown
1098	Layer	Natural	N/A	Clay mudstone.	0.45m - Unknown
1099	Fill	Fill of shaft/bell pit.	1100	Black coal waste	0.45m - Unknown
1100	Cut	Cut of shaft associated with coal extraction.	N/A	Ill-defined, vertical edges.	0.45m - Unknown
1101	Layer	Topsoil	N/A	Mid greyish brown sandy clay.	0 - 0.3m
1102	Layer	Subsoil	N/A	Light greyish brown sandy clay.	0.3m - 0.45m
1103	Layer	Natural	N/A	Mid yellowish orange sandy clay.	0.45m - Unknown
1104	Fill	Fill of shaft/bell pit.	2524	Light grey clay and mudstone.	0.45m - Unknown
1105	Fill	Fill of shaft/bell pit.	1165	Sticky dirty greyish yellow clay.	0.45m - Unknown
1106	Layer	Natural	N/A	Mudstone and clay.	0.45m - Unknown
1107	Fill	Fill of shaft/bell pit.	1166	Pale grey and yellow clay.	0.45m - Unknown
1108	Fill	Fill of shaft/bell pit.	1109	Grey black clay with some yellow.	0.45m - Unknown
1109	Cut	Cut of shaft associated with coal extraction.	1108	Ill-defined, vertical edges.	0.45m - Unknown
1110	Layer	Natural	N/A	Sticky yellow clay with pale grey bands.	0.45m - Unknown
1111	Layer	Natural	N/A	Mix of black clay and coal.	0.45m - Unknown
1112	Layer	Natural	N/A	Dirty yellow clay.	0.45m - Unknown
1113	Fill	Fill of shaft/bell pit.	1114	Dirty yellow and grey clay.	0.45m - Unknown
1114	Cut	Cut of shaft associated with coal extraction.	1113	Ill-defined, vertical edges.	0.45m - Unknown
1115	Layer	Natural	N/A	Yellow and grey clay.	0.45m - Unknown
1116	Layer	Natural	N/A	Coal layer.	0.45m - Unknown
1117	Layer	Natural	N/A	Mudstone.	0.45m - Unknown
1118	Fill	Fill of shaft/bell pit.	1120	Dark greyish black silty clay and coal.	0.45m - Unknown



Context No	Type	Interpretation	Fill of/Filled with	Description	Depth
1119	Fill	Fill of shaft/bell pit.	1120	Greyish brown clay.	0.45m - Unknown
1120	Cut	Cut of shaft associated with coal extraction.	1118, 1119	Ill-defined, vertical edges.	0.45m - Unknown
1121	Layer	Natural	N/A	Sticky yellow clay.	0.45m - Unknown
1122	Layer	Natural	N/A	Greyish yellow clay.	0.45m - Unknown
1123	Layer	Natural	N/A	Mudstone.	0.45m - Unknown
1124	Fill	Fill of shaft/bell pit.	1125	Silty coal mixture.	0.45m - Unknown
1125	Cut	Cut of shaft associated with coal extraction.	1124, 1126	Ill-defined, near vertical edges, bells out towards bottom.	0.45m - Unknown
1126	Fill	Fill of shaft/bell pit.	1125	Mixed yellow and grey clay with coal fragments.	0.45m - Unknown
1127	Layer	Natural	N/A	Yellow clay.	0.45m - Unknown
1128	Layer	Natural	N/A	Black coal.	0.45m - Unknown
1129	Layer	Natural	N/A	Greyish mudstone.	0.45m - Unknown
1130	Fill	Fill of shaft/bell pit.	1131	Greyish black clay with some coal.	0.45m - Unknown
1131	Cut	Cut of shaft associated with coal extraction.	1130, 1132	Ill-defined, vertical edges.	0.45m - Unknown
1132	Fill	Fill of shaft/bell pit.	1131	Soft, silty yellow and grey clay.	0.45m - Unknown
1133	Layer	Natural	N/A	Yellow clay with some grey.	0.45m - Unknown
1134	Layer	Natural	N/A	Soft and friable black coal.	0.45m - Unknown
1135	Layer	Natural	N/A	Mudstone.	0.45m - Unknown
1136	Cut	Cut of shaft associated with coal extraction.	1137	Ill-defined, bells out towards bottom.	0.45m - Unknown
1137	Fill	Fill of shaft/bell pit.	1136	Light grey clay with occasional charcoal flecks.	0.45m - Unknown
1138	Layer	Natural	N/A	Compact yellow clay.	0.45m - Unknown
1139	Cut	Cut of shaft associated with coal extraction.	1140	Ill-defined, bells out towards bottom.	0.45m - Unknown
1140	Fill	Fill of shaft/bell pit.	1139	Light grey clay with occasional charcoal flecks.	0.45m - Unknown
1141	Layer	Natural	N/A	Compact yellow clay.	0.45m - Unknown
1143	Cut	Cut of shaft associated with coal extraction.	1144, 1145	Ill-defined, vertical edges.	0.45m - Unknown
1144	Fill	Fill of shaft/bell pit.	1143	Grey clay with occasional charcoal flecks.	0.45m - Unknown
1145	Fill	Fill of shaft/bell pit.	1143	Charcoal band.	0.45m - Unknown
1146	Layer	Natural	N/A	Compact yellow clay.	0.45m - Unknown
1147	Cut	Cut of shaft associated with coal extraction.	1148, 1149	Ill-defined, vertical sides.	0.45m - Unknown
1148	Fill	Fill of shaft/bell pit.	1147	Black, soft charcoal rich clay	0.45m - Unknown
1149	Fill	Fill of shaft/bell pit.	1147	Light grey with occasional charcoal flecks.	0.45m - Unknown
1150	Layer	Natural	N/A	Yellow compact clay.	0.45m - Unknown
1151	Cut	Cut of shaft associated with coal extraction.	1152	Ill-defined, vertical edges.	0.45m - Unknown
1152	Fill	Fill of shaft/bell pit.	1151	Grey clay with occasional charcoal flecks.	0.45m - Unknown
1153	Layer	Natural	N/A	Yellowish orange compact clay.	0.45m - Unknown
1154	Cut	Cut of shaft associated with coal extraction.	1155	Ill-defined, vertical sides.	0.45m - Unknown
1155	Fill	Fill of shaft/bell pit.	1154	Grey clay with occasional charcoal flecks.	0.45m - Unknown
1156	Layer	Natural	N/A	Compact yellow clay.	0.45m - Unknown
1157	Cut	Cut of shaft associated with coal extraction.	1158, 1159	Ill-defined, vertical sides.	0.45m - Unknown
1158	Fill	Upper fill of mine shaft.	1157	Soft black charcoal rich clay.	0.45m - 1m



Context No	Type	Interpretation	Fill of/Filled with	Description	Depth
1159	Fill	Lower fill of mine shaft.	1157	Light grey with occasional charcoal flecks.	1m - Unknown
1160	Layer	Natural	N/A	Compact yellowish orange clay.	0.45m - Unknown
1161	Fill	Fill of shaft/bell pit.	2525	Light grey silty clay.	0.45m - Unknown
1164	Fill	Redeposited over pit.	1165	Greyish black silty clay.	Surface
1165	Cut	Cut of shaft associated with coal extraction.	1164	Ill-defined but now vertical sides, slight bell at the bottom.	0.45m - Unknown
1166	Cut	Cut of shaft associated with coal extraction.	1107	Irregular vertical sides. Bells out to slightly curved base.	0.45m - Unknown
1167	Layer	Natural	N/A	Mostly yellow, with bands of pale grey, clay.	0.45m - Unknown
1168	Cut	Cut of shaft associated with coal extraction.	1004	Ill-defined, vertical edges.	0.45m - Unknown
1169	Cut	Cut of shaft associated with coal extraction.	1005	Ill-defined, vertical edges.	0.45m - Unknown
1170	Cut	Cut of shaft associated with coal extraction.	1006	Ill-defined, vertical edges.	0.45m - Unknown
1171	Cut	Cut of shaft associated with coal extraction.	1007	Ill-defined, vertical edges.	0.45m - Unknown
1172	Cut	Cut of shaft associated with coal extraction.	1008	Ill-defined, vertical edges.	0.45m - Unknown
1173	Cut	Cut of shaft associated with coal extraction.	1009	Ill-defined, vertical edges.	0.45m - Unknown
1174	Cut	Cut of shaft associated with coal extraction.	1010	Ill-defined, vertical edges.	0.45m - Unknown
1175	Cut	Cut of shaft associated with coal extraction.	1011	Ill-defined, vertical edges.	0.45m - Unknown
1176	Cut	Cut of shaft associated with coal extraction.	1012	Ill-defined, vertical edges.	0.45m - Unknown
1177	Cut	Cut of shaft associated with coal extraction.	1013	Ill-defined, vertical edges.	0.45m - Unknown
1178	Cut	Cut of shaft associated with coal extraction.	1014	Ill-defined, vertical edges.	0.45m - Unknown
1179	Cut	Cut of shaft associated with coal extraction.	1015	Ill-defined, vertical edges.	0.45m - Unknown
1180	Cut	Cut of shaft associated with coal extraction.	1016	Ill-defined, vertical edges.	0.45m - Unknown
1181	Cut	Cut of shaft associated with coal extraction.	1017	Ill-defined, vertical edges.	0.45m - Unknown
1182	Cut	Cut of shaft associated with coal extraction.	1018	Ill-defined, vertical edges.	0.45m - Unknown
1183	Cut	Cut of shaft associated with coal extraction.	1019	Ill-defined, vertical edges.	0.45m - Unknown
1184	Cut	Cut of shaft associated with coal extraction.	1020	Ill-defined, vertical edges.	0.45m - Unknown
1185	Cut	Cut of shaft associated with coal extraction.	1021	Ill-defined, vertical edges.	0.45m - Unknown



Context No	Type	Interpretation	Fill of/Filled with	Description	Depth
1186	Cut	Cut of shaft associated with coal extraction.	1022	Ill-defined, vertical edges.	0.45m - Unknown
1187	Cut	Cut of shaft associated with coal extraction.	1023	Ill-defined, vertical edges.	0.45m - Unknown
1188	Cut	Cut of shaft associated with coal extraction.	1024	Ill-defined, vertical edges.	0.45m - Unknown
1189	Cut	Cut of shaft associated with coal extraction.	1025	Ill-defined, vertical edges.	0.45m - Unknown
1190	Cut	Cut of shaft associated with coal extraction.	1026	Ill-defined, vertical edges.	0.45m - Unknown
1191	Cut	Cut of shaft associated with coal extraction.	1027	Ill-defined, vertical edges.	0.45m - Unknown
1192	Cut	Cut of shaft associated with coal extraction.	1028	Ill-defined, vertical edges.	0.45m - Unknown
1193	Cut	Cut of shaft associated with coal extraction.	1029	Ill-defined, vertical edges.	0.45m - Unknown
1194	Cut	Cut of shaft associated with coal extraction.	1030	Ill-defined, vertical edges.	0.45m - Unknown
1195	Cut	Cut of shaft associated with coal extraction.	1031	Ill-defined, vertical edges.	0.45m - Unknown
1196	Cut	Cut of shaft associated with coal extraction.	1032	Ill-defined, vertical edges.	0.45m - Unknown
1197	Cut	Cut of shaft associated with coal extraction.	1033	Ill-defined, vertical edges.	0.45m - Unknown
1198	Cut	Cut of shaft associated with coal extraction.	1034	Ill-defined, vertical edges.	0.45m - Unknown
1199	Cut	Cut of shaft associated with coal extraction.	1035	Ill-defined, vertical edges.	0.45m - Unknown
1201	Layer	Topsoil	N/A	Mid greyish brown sandy clay.	0 - 0.3m
1202	Layer	Subsoil	N/A	Light greyish brown sandy clay.	0.3m - 0.45m
1203	Layer	Natural	N/A	Mid yellowish orange sandy clay.	0.45m - Unknown
1301	Layer	Topsoil	N/A	Mid greyish brown sandy clay.	0 - 0.3m
1302	Layer	Subsoil	N/A	Light greyish brown sandy clay.	0.3m - 0.45m
1303	Layer	Natural	N/A	Yellowish orange clay.	0.45m - Unknown
1304	Fill	Fill of shaft/bell pit.	1306	Light grey sandy clay.	0.45m - Unknown
1305	Fill	Fill of shaft/bell pit.	1306	Mid grey sandy clay.	0.45m - Unknown
1306	Cut	Cut of shaft associated with coal extraction.	1304, 1305	Ill-defined, vertical sides.	0.45m - Unknown
1401	Layer	Topsoil	N/A	Mid greyish brown sandy clay.	0 - 0.3m
1402	Layer	Subsoil	N/A	Light greyish brown sandy clay.	0.3m - 0.45m
1403	Layer	Natural	N/A	Mid yellowish orange sandy clay.	0.45m - Unknown
1404	Fill	Fill of shaft/bell pit.	1405	Mix of black coal dust and light grey clay.	0.45m - Unknown
1405	Cut	Cut of shaft associated with coal extraction.	1404	Ill-defined, vertical sides.	0.45m - Unknown
1501	Layer	Topsoil	N/A	Mid greyish brown sandy clay.	0 - 0.3m
1502	Layer	Subsoil	N/A	Light greyish brown sandy clay.	0.3m - 0.45m



Context No	Type	Interpretation	Fill of/Filled with	Description	Depth
1503	Layer	Natural	N/A	Mid yellowish orange sandy clay.	0.45m - Unknown
1504	Fill	Fill of shaft/bell pit.	1505	Light grey clay mixed with coal dust. Some timber present.	0.45m - Unknown
1505	Cut	Cut of shaft associated with coal extraction.	1504	Ill-defined, vertical sides.	0.45m - Unknown
1601	Layer	Topsoil	N/A	Mid greyish brown sandy clay.	0 - 0.3m
1602	Layer	Coal extraction waste	N/A	Black coal dust layer.	0.30m - 0.50m
1603	Layer	Natural	N/A	Light yellow orange sandy clay.	0.45m - Unknown
1604	Layer	Natural	N/A	Light grey broken mudstone.	Not recorded
1605	Layer	Natural	N/A	Dark greyish black layer of grout.	Not recorded
1701	Layer	Topsoil	N/A	Mid greyish brown sandy clay.	0 - 0.3m
1702	Layer	Subsoil	N/A	Light greyish brown sandy clay.	0.3m - 0.45m
1703	Layer	Natural	N/A	Light yellow orange clay.	0.45m - Unknown
1704	Layer	Natural	N/A	Light grey mudstone rockhead.	Not recorded
1801	Layer	Topsoil	N/A	Mid greyish brown sandy clay.	0 - 0.3m
1802	Layer	Subsoil	N/A	Subsoil.	0.3m - 0.45m
1803	Layer	Natural	N/A	Natural.	0.45m - Unknown
1804	Layer	Natural	N/A	Rockhead.	Not recorded
1805	Layer	Natural	N/A	Coal deposit.	Not recorded
1901	Layer	Topsoil	N/A	Mid greyish brown sandy clay.	0 - 0.3m
1902	Layer	Subsoil	N/A	Light greyish brown sandy clay.	0.3m - 0.45m
1903	Layer	Natural	N/A	Grey mudstone.	0.6m - 1.4m
1904	Layer	Natural	N/A	Coal deposit.	Not recorded
2001	Layer	Topsoil	N/A	Mid greyish brown sandy clay.	0 - 0.3m
2002	Layer	Subsoil	N/A	Light greyish brown sandy clay.	0.3m - 0.45m
2003	Layer	Natural	N/A	Light yellowish orange sandy clay.	0.45m - Unknown
2004	Layer	Natural	N/A	Grey mudstone.	Not recorded
2005	Layer	Natural	N/A	Coal deposit.	Not recorded
2101	Layer	Topsoil	N/A	Mid greyish brown sandy clay.	0 - 0.3m
2102	Layer	Subsoil	N/A	Light greyish brown sandy clay.	0.3m - 0.45m
2103	Layer	Natural	N/A	Light yellowish orange sandy clay.	0.45m - Unknown
2104	Layer	Natural	N/A	Grey mudstone.	Not recorded
2105	Fill	Fill of shaft/bell pit.	2106	Clay mudstone.	0.45m - Unknown
2106	Cut	Cut of shaft associated with coal extraction.	2105	Ill-defined, vertical sides.	0.45m - Unknown
2201	Layer	Topsoil	N/A	Mid greyish brown sandy clay.	0 - 0.3m
2202	Layer	Subsoil	N/A	Light greyish brown sandy clay.	0.3m - 0.45m
2203	Layer	Natural	N/A	Mid yellowish orange clay.	0.45m - Unknown
2204	Layer	Natural	N/A	Loose greyish brown mudstone.	0.45m - Unknown
2301	Layer	Topsoil	N/A	Mid greyish brown sandy clay.	0 - 0.3m
2302	Layer	Subsoil	N/A	Light greyish brown sandy clay.	0.3m - 0.45m
2303	Layer	Natural	N/A	Mid yellowish orange sandy clay.	0.45m - Unknown
2304	Layer	Natural	N/A	Greyish brown mudstone.	Not recorded
2305	Fill	Fill of shaft/bell pit.	2306	Light grey clay mixed with coal dust.	0.45m - Unknown
2306	Cut	Cut of shaft associated with coal extraction.	2305	Ill-defined, vertical sides.	0.45m - Unknown
2401	Layer	Topsoil	N/A	Mid greyish brown sandy clay.	0 - 0.3m
2402	Layer	Subsoil	N/A	Light greyish brown sandy clay.	0.3m - 0.45m



Context No	Type	Interpretation	Fill of/Filled with	Description	Depth
2403	Layer	Natural	N/A	Mid yellowish orange sandy clay.	0.45m - Unknown
2404	Layer	Natural	N/A	Greyish brown mudstone.	Not recorded
2405	Fill	Fill of shaft/bell pit.	2407	Black coal.	0.45m - Unknown
2406	Fill	Fill of shaft/bell pit.	2407	Black coal.	0.45m - Unknown
2407	Cut	Cut of shaft associated with coal extraction.	2405, 2406	Ill-defined, vertical sides.	0.45m - Unknown
2500	Cut	Cut of shaft associated with coal extraction.	1036	Ill-defined, vertical edges.	0.45m - Unknown
2501	Cut	Cut of shaft associated with coal extraction.	1037	Ill-defined, vertical edges.	0.45m - Unknown
2502	Cut	Cut of shaft associated with coal extraction.	1038	Ill-defined, vertical edges.	0.45m - Unknown
2503	Cut	Cut of shaft associated with coal extraction.	1039	Ill-defined, vertical edges.	0.45m - Unknown
2504	Cut	Cut of shaft associated with coal extraction.	1040	Ill-defined, vertical edges.	0.45m - Unknown
2505	Cut	Cut of shaft associated with coal extraction.	1041	Ill-defined, vertical edges.	0.45m - Unknown
2506	Cut	Cut of shaft associated with coal extraction.	1042	Ill-defined, vertical edges.	0.45m - Unknown
2507	Cut	Cut of shaft associated with coal extraction.	1043	Ill-defined, vertical edges.	0.45m - Unknown
2508	Cut	Cut of shaft associated with coal extraction.	1045	Ill-defined, vertical edges.	0.45m - Unknown
2509	Cut	Cut of shaft associated with coal extraction.	1046	Ill-defined, vertical edges.	0.45m - Unknown
2510	Cut	Cut of shaft associated with coal extraction.	1047	Ill-defined, vertical edges.	0.45m - Unknown
2511	Cut	Cut of shaft associated with coal extraction.	1048	Ill-defined, vertical edges.	0.45m - Unknown
2512	Cut	Cut of shaft associated with coal extraction.	1049	Ill-defined, vertical edges.	0.45m - Unknown
2513	Cut	Cut of shaft associated with coal extraction.	1050	Ill-defined, vertical edges.	0.45m - Unknown
2514	Cut	Cut of shaft associated with coal extraction.	1051	Ill-defined, vertical edges.	0.45m - Unknown
2515	Cut	Cut of shaft associated with coal extraction.	1052	Ill-defined, vertical edges.	0.45m - Unknown
2516	Cut	Cut of shaft associated with coal extraction.	1053	Ill-defined, vertical edges.	0.45m - Unknown
2517	Cut	Cut of shaft associated with coal extraction.	1054	Ill-defined, vertical edges.	0.45m - Unknown
2518	Cut	Cut of shaft associated with coal extraction.	1055	Ill-defined, vertical edges.	0.45m - Unknown
2519	Cut	Cut of shaft associated with coal extraction.	1056	Ill-defined, vertical edges.	0.45m - Unknown



Context No	Type	Interpretation	Fill of/Filled with	Description	Depth
2520	Cut	Cut of shaft associated with coal extraction.	1057	Ill-defined, vertical edges.	0.45m - Unknown
2521	Cut	Cut of shaft associated with coal extraction.	1059	Ill-defined, vertical edges.	0.45m - Unknown
2522	Cut	Cut of shaft associated with coal extraction.	1060	Ill-defined, vertical edges.	0.45m - Unknown
2523	Cut	Cut of shaft associated with coal extraction.	1063	Ill-defined, vertical edges.	0.45m - Unknown
2524	Cut	Cut of shaft associated with coal extraction.	1104	Ill-defined, vertical edges.	0.45m - Unknown
2525	Cut	Cut of shaft associated with coal extraction.	1161	Ill-defined, vertical edges.	0.45m - Unknown

Strip, map and record

Context Number	Type	Category	Fill of/Filled With
100	Layer	Topsoil	n/a
Dark brown silty clay with common medium sub-angular stones inclusions			
101	Layer	Natural	n/a
Yellowish grey clay with common sub-angular coal fragments inclusions			
102	Cut	Pit	103, 104
Sub-oval pit with steep, irregular sides and a concave base. Length: >2.65 m. Width: 2.20 m. Depth: 0.84 m.			
103	Fill	Deliberate backfill	102
Mid brown silty sand with coal, charcoal rare small stones inclusions			
104	Fill	Deliberate backfill	102
Dark blueish black sandy silt with coal, small sub-angular stones inclusions			
105	Cut	Pit	106, 107, 108
Sub-oval pit with steep, irregular sides and an irregular/undulating base. Length: 4.00 m. Width: 2.50 m. Depth: 0.95 m.			
106	Fill	Deliberate backfill	105
Dark brown silty clay with sparse angular and sub-angular stones 8-15 cm, rare pieces of coal inclusions			
107	Fill	Deliberate backfill	105
Dark grey silty clay with coal and ash with sparse angular stones 0.08-0.15 m, moderate pieces of coal inclusions			
108	Fill	Deliberate backfill	105
Dark brown with greyish hue silty clay with sparse angular stones, sparse pieces of coal inclusions			
109	Cut	Pit	110, 111
Subcircular pit with steep, irregular sides and an irregular/undulating base. Length: 2.00 m. Width: 1.80 m. Depth: 1.00 m.			
110	Unexcavated	Deliberate backfill	109
Dark brown silty clay with ash with sparse angular stones <15 cm inclusions			
111	Fill	Deliberate backfill	109
Dark grey silty sand with coal and ash with sparse angular stones <20 cm, common pieces of coal inclusions			
112	Cut	Pit	113, 114, 115
Subcircular pit with steep, irregular sides and an irregular/undulating base. Length: 3.03 m. Width: 2.29 m. Depth: 1.18 m.			
113	Fill	Deliberate backfill	112
Dark brown with dark yellow patches of clayey sand silty clay with rare angular stones <15 cm inclusions			
114	Fill	Deliberate backfill	112
Dark grey silty clay with coal, light grey patches of ash with common pieces of coal inclusions			
115	Fill	Deliberate backfill	112



Context Number	Type	Category	Fill of/Filled With
			Dark brown silty clay with rare small subrounded and angular stones, rare pieces of coal inclusions
116	Layer	Occupation layer	n/a
			Dark brown silty clay with sparse small angular stones inclusions
117	Cut	Pit	118, 119
			Circular pit with irregular, irregular sides and an irregular/undulating base. Length: 3.10 m. Width: 2.50 m. Depth: >1.20 m.
118	Fill	Deliberate backfill	117
			Mid brown silty sand with coal, small sub-angular stones inclusions
119	Fill	Deliberate backfill	117
			Dark blueish black sandy silty with common coal, small sub-angular stones inclusions
120	Cut	Furrow	121
			Linear furrow with moderate, concave sides and a flat base. Length: >5.00 m. Width: 1.10 m. Depth: 0.06 m.
121	Fill	Furrow	120
			Mid orange brown silt clay with rare stones inclusions
122	Cut	Furrow	123
			Linear furrow with moderate, concave sides and a flat base. Length: >5.00 m. Width: 1.00 m. Depth: 0.07 m.
123	Fill	Secondary fill	122
			Mid orange-ish brown silty clay with rare stones inclusions
124	Cut	Furrow	125
			Linear furrow with moderate, concave sides and a flat base. Length: >5.00 m. Width: 1.35 m. Depth: 0.09 m.
125	Fill	Secondary fill	124
			Mid orange-ish brown silty clay with rare stones inclusions
126	Cut	Furrow	127
			Linear furrow with moderate, concave sides and a flat base. Length: >1.00 m. Width: 1.35 m. Depth: 0.11 m.
127	Fill	Secondary fill	126
			Mid orange-ish brown silty clay with rare stones inclusions
128	Cut	Furrow	129
			Linear furrow with moderate, concave sides and a flat base. Length: >5.00 m. Width: 1.30 m. Depth: 0.12 m.
129	Fill	Secondary fill	128
			Mid orange-ish brown silty clay with rare stones inclusions
130	Cut	Furrow	131
			Linear furrow with moderate, concave sides and a flat base. Length: >5.00 m. Width: 1.80 m. Depth: 0.12 m.
131	Fill	Secondary fill	130
			Mid orange-ish brown silty clay with rare stones inclusions
132	Cut	Pit	133, 134, 135, 136
			Sub-oval pit with moderate, concave sides. Length: >1.90 m. Width: 2.20 m. Depth: 1.20 m.
133	Fill	Deliberate backfill	132
			Mid orange sandy silt with some angular stone inclusions
134	Fill	Deliberate backfill	132
			Mid brown silty clay with rare coal, small sub-angular stones inclusions
135	Fill	Deliberate backfill	132
			Dark blueish grey silty clay with common coal inclusions
136	Fill	Deliberate backfill	132
			Mid brown silty clay with coal inclusions
137	Cut	Pit	138, 139, 140
			Subcircular pit with shallow, concave sides and an irregular/undulating base. Length: >2.90 m. Width: >2.10 m. Depth: 1.20 m.
138	Fill	Deliberate backfill	137
			Mid yellow silty clay
139	Fill	Deliberate backfill	137
			Mid brown silty clay with coal, small sub-angular stones inclusions
140	Fill	Deliberate backfill	137
			Dark blueish black silty clay with small gravel, inclusions



Context Number	Type	Category	Fill of/Filled With
141	Fill	Deliberate backfill	142
Light blueish grey silty clay with some coal and small gravel inclusions			
142	Cut	Pit	141, 143, 144
Subcircular pit with steep, irregular sides. Length: 3.10 m. Width: 0.80 m. Depth: 1.20 m.			
143	Fill	Deliberate backfill	142
Mid reddish brown silty clay with some small stones and coal inclusions			
144	Fill	Deliberate backfill	142
Light blueish grey silty clay with angular stones coal inclusions			
145	Cut	Pit	146, 147, 148, 149
Subcircular pit with moderate, concave sides and a concave base. Length: 2.95 m. Width: >4.00 m. Depth: 1.20 m.			
146	Fill	Deliberate backfill	145
Mid brown silty clay with small gravel, inclusions			
147	Fill	Deliberate backfill	145
Dark blackish brown silty sand with small gravel, common coal inclusions			
148	Fill	Deliberate backfill	145
Mid brown silty clay with rare gravel, inclusions			
149	Fill	Deliberate backfill	145
Dark blackish brown silty sand with gravel inclusions			
150	Cut	Pit	151
Subcircular pit with steep, concave sides. Length: >3.20 m. Width: >2.50 m. Depth: 1.10 m.			
151	Fill	Unknown interpretation	150
Mid yellow silty clay			
152	Cut	Pit	153, 154
Subcircular pit with irregular, irregular sides and a concave base. Length: 2.60 m. Width: 3.50 m. Depth: 0.75 m.			
153	Fill	Deliberate backfill	152
Mid yellow brown silty clay			
154	Fill	Deliberate backfill	152, 155
Light greyish brown silty clay			
155	Cut	Pit	154, 156
Subcircular pit with moderate, irregular sides and a concave base. Length: 1.70 m. Width: 3.50 m. Depth: 0.90 m.			
156	Fill	Deliberate backfill	155
Soil description could not be reconstructed from the context sheet.			
157	Cut	Pit	158, 159, 160
Circular pit with irregular, stepped sides. Length: 2.25 m. Width: 2.00 m. Depth: 1.20 m.			
158	Fill	Deliberate backfill	157
Mid brown silty clay with some small gravel inclusions			
159	Fill	Deliberate backfill	157
Light blueish brown silty clay with small gravel, coal inclusions			
160	Fill	Deliberate backfill	157
Mid brown silty clay with rare gravel inclusions			
161	Unexcavated	Unknown interpretation	n/a
Soil description could not be reconstructed from the context sheet.			
162	Cut	Pit	163, 164, 165
Circular pit with irregular, irregular sides. Length: 2.10 m. Width: 1.60 m. Depth: 1.20 m.			
163	Fill	Deliberate backfill	162
Dark yellow brown silty clay with rare gravel inclusions			
164	Fill	Deliberate backfill	162
Dark brown silty clay with gravel, rare coal inclusions			
165	Fill	Deliberate backfill	162
Mid greyish/blue brown silty clay with common coal, gravel inclusions			
166	Cut	Pit	167, 168, 169
Incomplete pit with irregular, irregular sides. Length: 5.10 m. Width: >2.50 m. Depth: 1.20 m.			
167	Fill	Deliberate backfill	166



Context Number	Type	Category	Fill of/Filled With
Mid brown silty clay with gravel and coal inclusions			
168	Fill	Deliberate backfill	166
Mid yellowish brown silty clay with rare gravel inclusions			
169	Fill	Deliberate backfill	166
Dark blackish brown silty sand with common coal and gravel inclusions			
170	Cut	Pit	171
Length: 1.80 m. Depth: 0.60 m.			
171	Fill	Deliberate backfill	170
Mid brown silty clay with coal gravel inclusions			
172	Cut	Pit	173, 174
Circular pit with moderate, irregular sides. Length: 2.35 m. Width: 2.40 m. Depth: 1.20 m.			
173	Fill	Deliberate backfill	172
Mid brown silty clay with gravel, coal inclusions			
174	Fill	Deliberate backfill	172
Dark blackish brown silty sand with common coal, gravel inclusions			
175	Unexcavated	Unknown interpretation	n/a
Soil description could not be reconstructed from the context sheet.			
176	Layer	Coal seam layer	n/a
Dark blueish black silty sand			



Appendix 2: List of pottery by context (MNV = maximum number of vessels)

Context	Ware type	Sherd Count	Wt. (g)	MNV	Comment
103	Biscuit ware	1	10	1	body sherd; black mocha dec
103	Refined whiteware	2	15	2	body sherds from flatwares; 1 transfer-printed (seaweed motif)
103	Cane-coloured ware	1	12	1	flared bowl rim; banded dec
106	Biscuit ware	4	87	4	2 bases (1 with banded dec); 1 jug handle; 1 body sherd (mocha dec)
107	Biscuit ware	1	77	1	tea/coffee pot lid
107	Rockingham-type ware	3	56	3	teapot handle & 2 base sherds
107	Yellow ware	2	16	2	1 flared bowl rim & 1 body sherd, both with mocha dec
107	Cane-coloured ware	1	11	1	flared bowl rim; mocha dec
108	Biscuit ware	1	14	1	flared bowl rim, mocha dec
108	Yellow ware	1	1	1	tiny rim sherd, prob from bowl
110	Biscuit ware	5	61	5	body sherds, 1 banded dec, 1 moulded dec (internally white-slipped kitchen bowl), 3 plain
110	Redware	1	17	1	flowerpot rim, rouletted
110	Refined whiteware	2	8	2	bowl rim, banded dec; body sherd, transfer-printed
110	Yellow ware	4	69	4	flared bowl rim; base from cylindrical vessel (mug?), 2 body sherds, mocha dec
111	Biscuit ware	3	30	2	flat-rimmed bowl, internally moulded; footring base
111	Black-glazed redware	1	8	1	body sherd, poorly wedged fabric
111	Refined whiteware	2	8	2	plate rim & body sherd, both transfer-printed
111	Cane-coloured ware	1	14	1	body sherd, internally white-slipped (bowl?)
113	Biscuit ware	3	12	3	body sherds, mocha dec
114	Biscuit ware	2	11	2	knop from tea/coffee pot lid; body sherd, mocha dec
114	Feldspathic-glazed stoneware	1	13	1	body sherd
114	Yellow ware	2	14	2	rim sherd (outer surface spalled away); body sherd, banded dec
115	Biscuit ware	3	94	3	base sherds (whiteware), 1 stamped [THOMP]SON BROTH[ERS]; 1 teapot lid
115	Refined whiteware	1	57	1	possible waster: glazed, but only internally
115	Rockingham-type ware	2	191	2	teapot rim and base (not joining)
118	Biscuit ware	3	22	3	flared bowl rim; 2 body sherds; mocha dec
118	Yellow ware	2	18	2	body sherds, mocha dec
119	Biscuit ware	3	20	2	body sherds (2 conjoining), banded dec
119	Bone china	1	6	1	footring base
119	English stoneware	1	2	1	body sherd, internal feldspathic glaze
119	Redware	1	85	1	rim/shoulder of narrow-mouthed bottle with opposed looped handles (but at slightly different levels)



Context	Ware type	Sherd Count	Wt. (g)	MNV	Comment
119	Yellow ware	1	9	1	body sherd, mocha dec
123	Biscuit ware	2	2	2	body sherds; banded dec
125	Biscuit ware	2	2	2	body sherds
125	Refined whiteware	2	1	2	body sherds
127	Biscuit ware	2	5		body & base, latter with backstamp THOM[PSON BROTHERS]
127	Yellow ware	1	1	1	tiny rim, probably from bowl
129	Biscuit ware	2	4	2	body sherds
129	Black-glazed redware	1	12	1	body sherd, poorly-wedged fabric
131	Biscuit ware	1	22	1	flared bowl rim
131	Yellow ware	3	5	3	body sherds, 1 with mocha dec
135	Biscuit ware	1	41	1	flat-rimmed chamber pot, banded dec
139	Biscuit ware	1	45	1	body sherd
139	Pearlware	1	4	1	body sherd
139	Refined whiteware	1	2	1	saucer rim, transfer-printed
140	Biscuit ware	3	25	3	flared bowl rim; footring base; body sherd
140	Yellow ware	3	30	3	1 footring base & 2 body sherds
143	Yellow ware	1	11	1	footring base
144	Biscuit ware	1	1	1	body sherd, banded dec
144	Yellow ware	1	7	1	body sherd
146	Yellow ware	1	20	1	possible waster, mis-fired, moulded dec, internally white-slipped (kitchen bowl?)
147	Biscuit ware	7	292	7	teapot rim; body sherd from angled vessel (teapot?), moulded dec; 5 body sherds (1 banded, 4 mocha dec)
147	Refined whiteware	1	4	1	plate rim, transfer-printed
147	Rockingham-type ware	1	66	1	teapot base, moulded dec
147	Yellow ware	1	20	1	flat rim (flared bowl or chamber pot)
148	Biscuit ware	1	28	1	base sherd from angled vessel (teapot?); motto band above base: ...AT THE W...
148	Rockingham-type ware	1	44	1	tea/coffee pot lid
148	Cane-coloured ware	1	45	1	body sherd from rounded jug (spout base), banded dec
149	Biscuit ware	3	134	3	teapot spout; jug handle; body sherd from angled vessel (teapot?), moulded dec
149	Cane-coloured ware	1	7	1	flared bowl rim, banded dec
158	Yellow ware	2	6	2	body sherds, 1 banded, 1 mocha dec
159	Yellow ware	2	3	2	body sherds, 1 with banded dec
160	Biscuit ware	1	4	1	body sherd
160	Black-glazed redware	1	1	1	body sherd, poorly wedged fabric
160	Refined whiteware	2	12	2	body & plate rim sherd, transfer-printed
160	Yellow ware	2	13	2	body sherds
164	Pearlware	1	2	1	body sherd
164	Yellow ware	1	1	1	body sherd, mocha dec
167	Biscuit ware	1	5	1	body sherd, white-slipped int, ?moulded ext



Context	Ware type	Sherd Count	Wt. (g)	MNV	Comment
167	Black-glazed redware	1	62	1	body sherd, poorly wedged fabric
167	Cane-coloured ware	1	3	1	body sherd, mocha dec
169	Biscuit ware	7	89	6	flat-rimmed flared bowl rim, internally white-slipped; small rim with banded dec; 4 body sherds (2 with banded dec)
171	Biscuit ware	2	7	2	body sherds
171	Refined whiteware	1	5	1	body sherd
171	Yellow ware	1	3	1	body sherd
173	Creamware	1	25	1	base sherd, internally fluted
173	Yellow ware	2	31	2	flared bowl rim, banded dec
173	Cane-coloured ware	1	12	1	body sherd, internally white-slipped, external moulded dec
174	Biscuit ware	3	47	3	body sherds, 1 banded, 1 mocha dec
174	Yellow ware	2	40	2	flared bowl rim, banded dec; body sherd, mocha dec
1075	Biscuit ware	3	9	3	tiny rim sherd, banded dec; 2 body sherds, 1 with mocha dec
1075	Yellow ware	2	49	2	large kitchen bowl rim, white-slipped int, external moulded dec; flat rim from flared bowl or chamber pot



Appendix 3: OASIS form

OASIS ID: wessexar1-364609

Project details

Project name	Land at Broomy Farm, Woodville, Derbyshire: Archaeological Investigations
Short description of the project	Wessex Archaeology undertook a strip, map and record (SMR) excavation during groundworks related to residential development at Broomy Farm, Woodville, Derbyshire. The SMR area occupied 0.27 ha and was centred on 431560 320360. A total 17 clay extraction pits presumed related to the nearby pottery industry were recorded. To their south-east an arrangement of six parallel furrows appeared to peter out to the south-west. The artefactual evidence suggests the pits are likely to be broadly contemporary with each other and were probably infilled in the 19th-20th century. The backfill contained quantities of local pottery, including mis-fired sherds, and kiln furniture, the presence of which indicates the material derived directly from one or more of the former pottery works known nearby. The pottery assemblage preserves a 'snapshot' of some of the types of wares produced during the 19th and 20th centuries, and has some limited potential to explore the regional research objective of developing understanding of the manufacture of pottery.
Project dates	Start: 17-08-2020 End: 07-09-2020
Previous/future work	Yes / Not known
Any associated project reference codes	217831 - Sitecode
Any associated project reference codes	9/2014/0740 - Planning Application No.
Any associated project reference codes	343458 - OASIS form ID
Type of project	Recording project
Site status	None
Current Land use	Cultivated Land 4 - Character Undetermined
Monument type	PIT Post Medieval
Monument type	PIT Modern
Significant Finds	POT Post Medieval
Significant Finds	POT Modern
Significant Finds	KILN FURNITURE Post Medieval
Significant Finds	KILN FURNITURE Modern
Investigation type	"Open-area excavation"
Prompt	Planning condition

Project location

Country	England
Site location	DERBYSHIRE SOUTH DERBYSHIRE WOODVILLE Broomy Farm



Postcode	DE11 7JS
Study area	0.27 Hectares
Site coordinates	SK 31560 20360 52.779564999183 -1.532063001701 52 46 46 N 001 31 55 W Point
Height OD / Depth	Min: 100m Max: 105m

Project creators

Name of Organisation	Wessex Archaeology
Project brief originator	with advice from County Archaeologist
Project design originator	CgMs Consulting Ltd
Project director/manager	John Winfer
Project supervisor	Viktoria Halldorsdottir

Project archives

Physical Archive recipient	Derby Museum and Art Gallery
Physical Contents	"Ceramics"
Digital Archive recipient	Archaeological Data Service
Digital Contents	"Ceramics","Stratigraphic","Survey"
Digital Media available	"Images raster / digital photography","Spreadsheets","Survey"
Paper Archive recipient	Derby Museum and Art Gallery
Paper Contents	"Stratigraphic"
Paper Media available	"Drawing","Notebook - Excavation',' Research',' General Notes"

Project bibliography 1

Publication type	Grey literature (unpublished document/manuscript)
Title	Land at Broomy Farm, Woodville, Derbyshire: Archaeological Investigations
Author(s)/Editor(s)	Winfer, J, Metcalfe, E and Halldórsdóttir, V
Other bibliographic details	217830.5
Date	2020
Issuer or publisher	Wessex Archaeology
Place of issue or publication	Sheffield



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Entered by Patrick Daniel (j.irwin@wessexarch.co.uk)

Entered on 30 October 2020



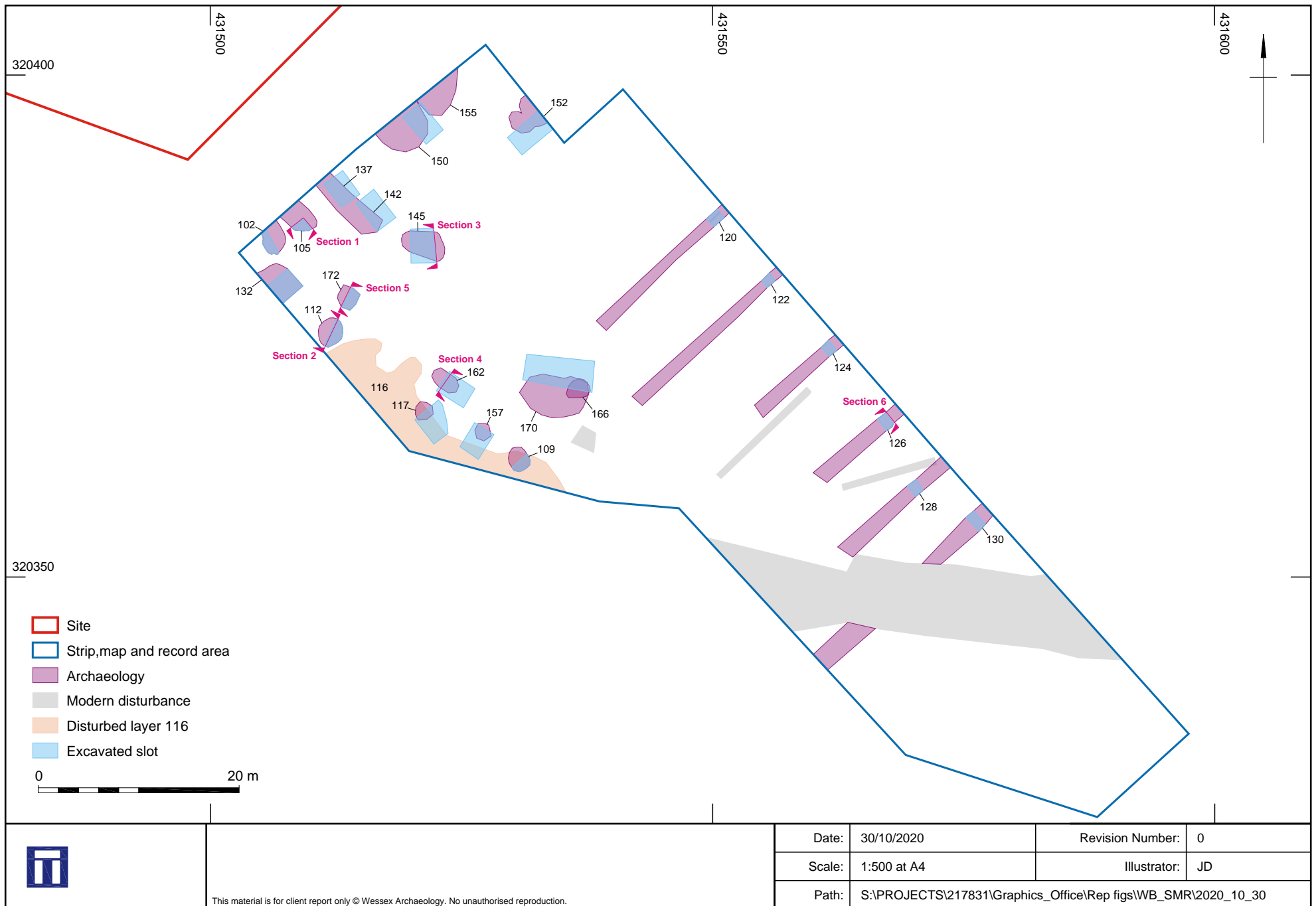
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Site location showing watching brief and strip, map and record areas

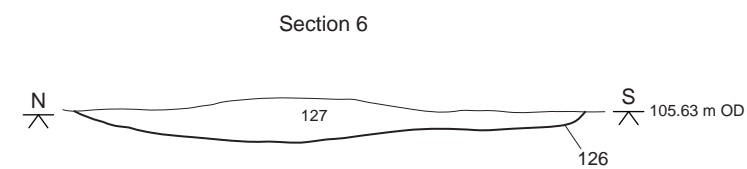
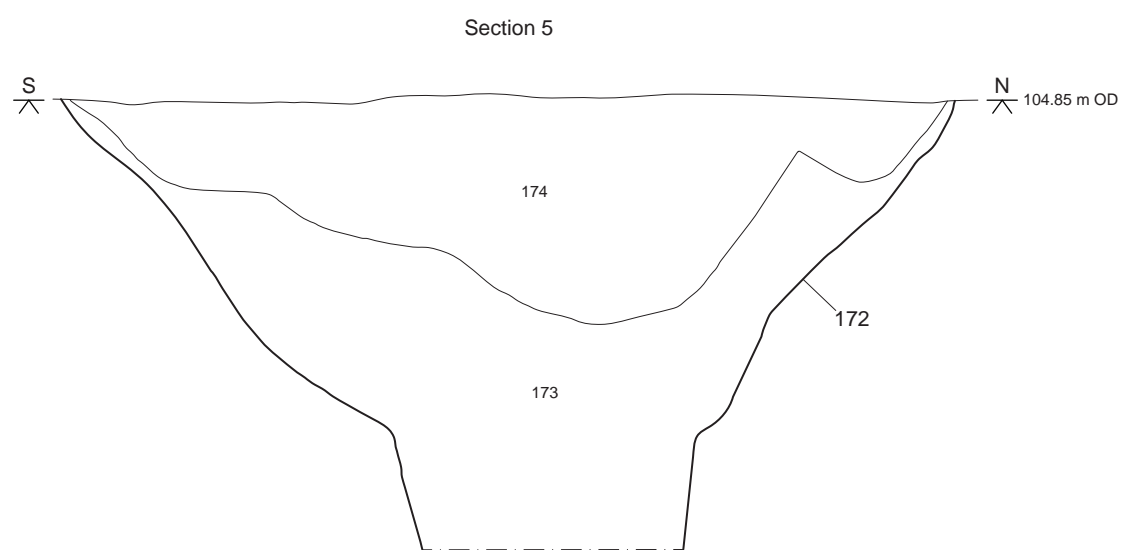
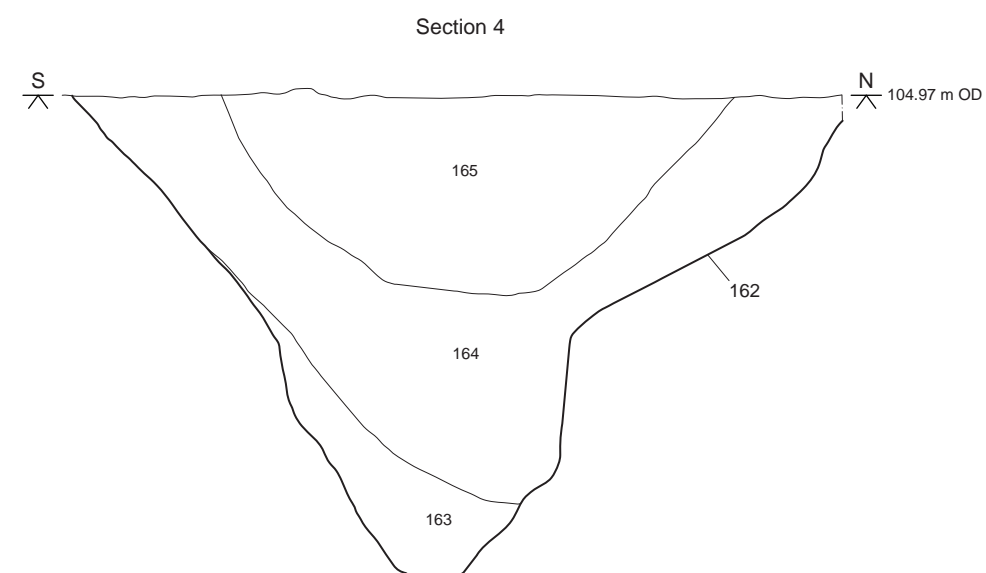
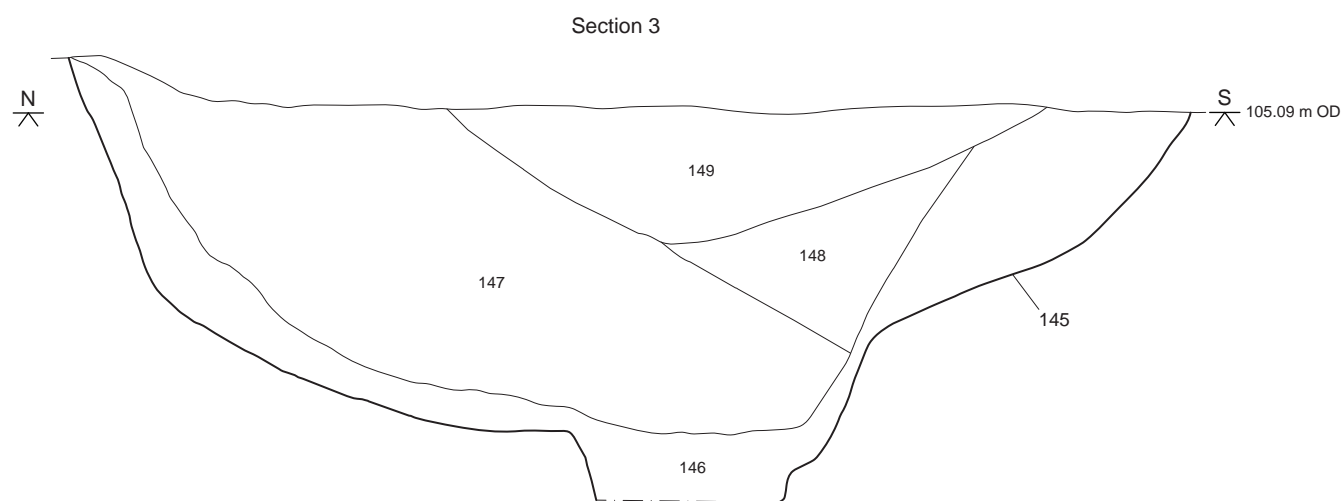
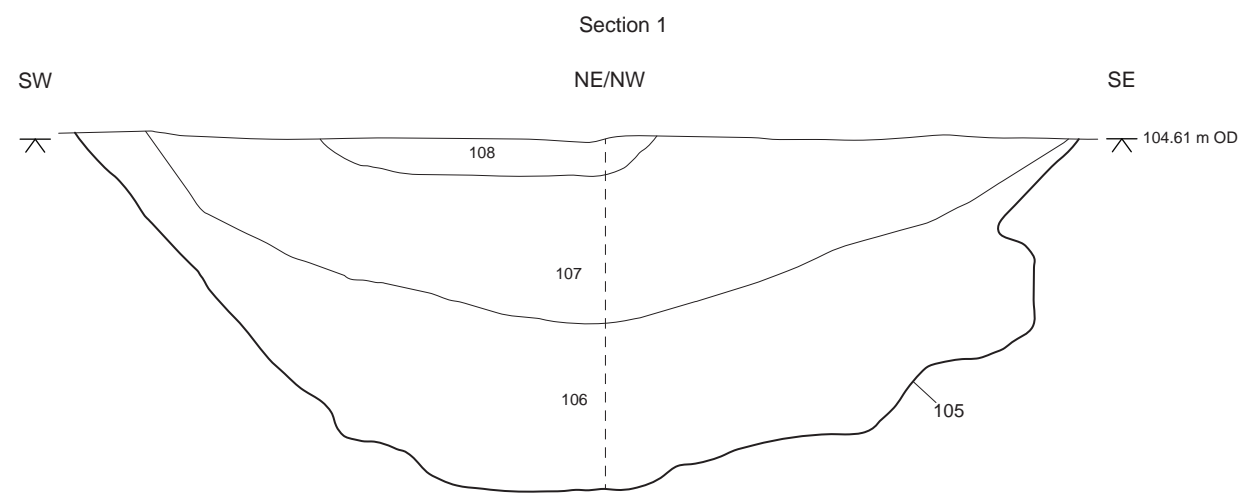
Figure 1



Strip, map and record area showing features identified

Figure 2

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Plate 1: Southern watching brief area showing shafts, looking south east



Plate 2: Northern watching brief area showing shafts, looking west


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Plate 3: Top of possible shaft looking north



Plate 4: Excavation of shaft in northern area looking west


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Plate 5: Section through shaft in southern watching brief area looking east



Plate 6: Section of pit 112 looking west



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Plate 7: Section of pit 117 looking NW



Plate 8: Section of pits 152 & 155 looking NW

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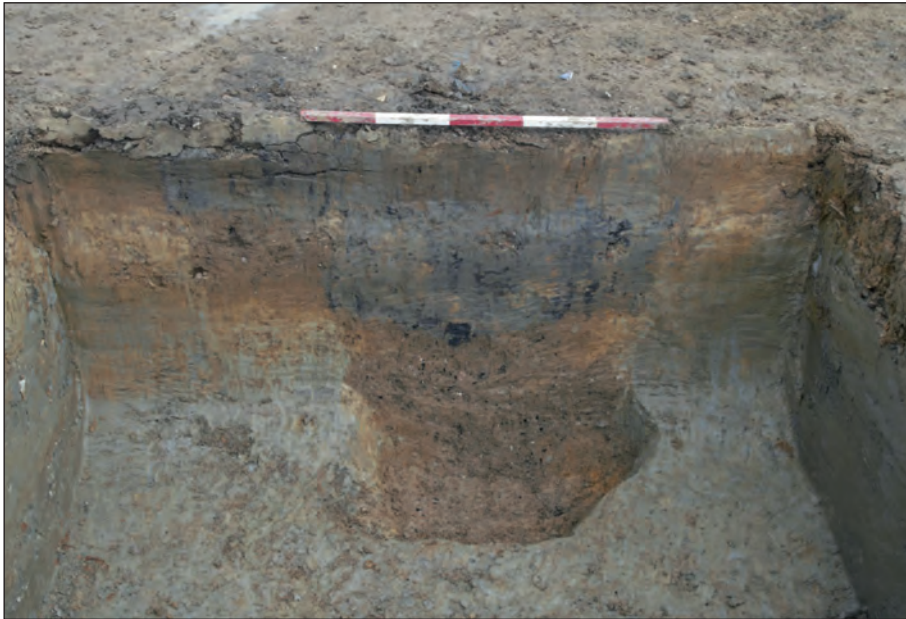


Plate 9: Section of pit 157 looking NE



Plate 10: Section of pit 172 looking west



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Plate 11: Section of furrow 120 looking NE

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