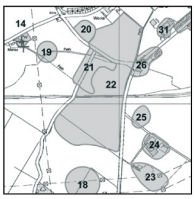
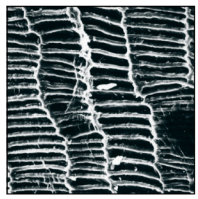
TFWY/01










TRINITY FARM, KNOTTINGLEY, WEST YORKSHIRE

Archaeological Evaluation

commissioned by Prospect Archaeology
on behalf of Caddick Developments Ltd

15/00627/HYB

September 2015

HEADLAND ARCHAEOLOGY

REGISTERED ORGANISATION CIfA

TRINITY FARM, KNOTTINGLEY, WEST YORKSHIRE

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project info

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PARISH	Knottingley
LOCAL AUTHORITY	Wakefield Metropolitan District Council
OASIS REF.	headland5-223386

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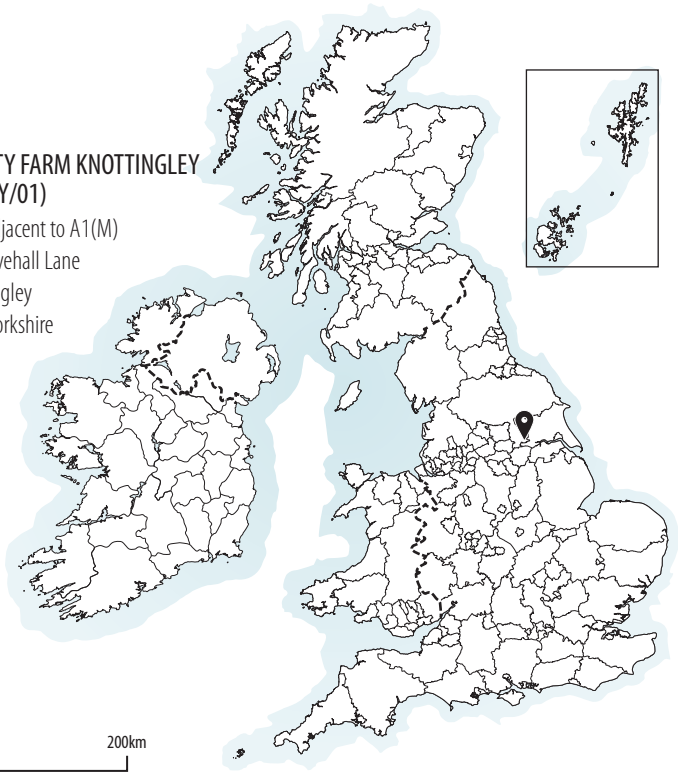
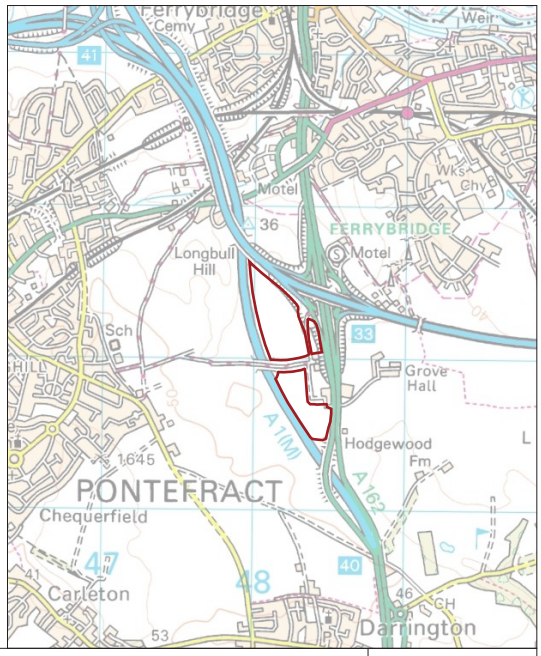
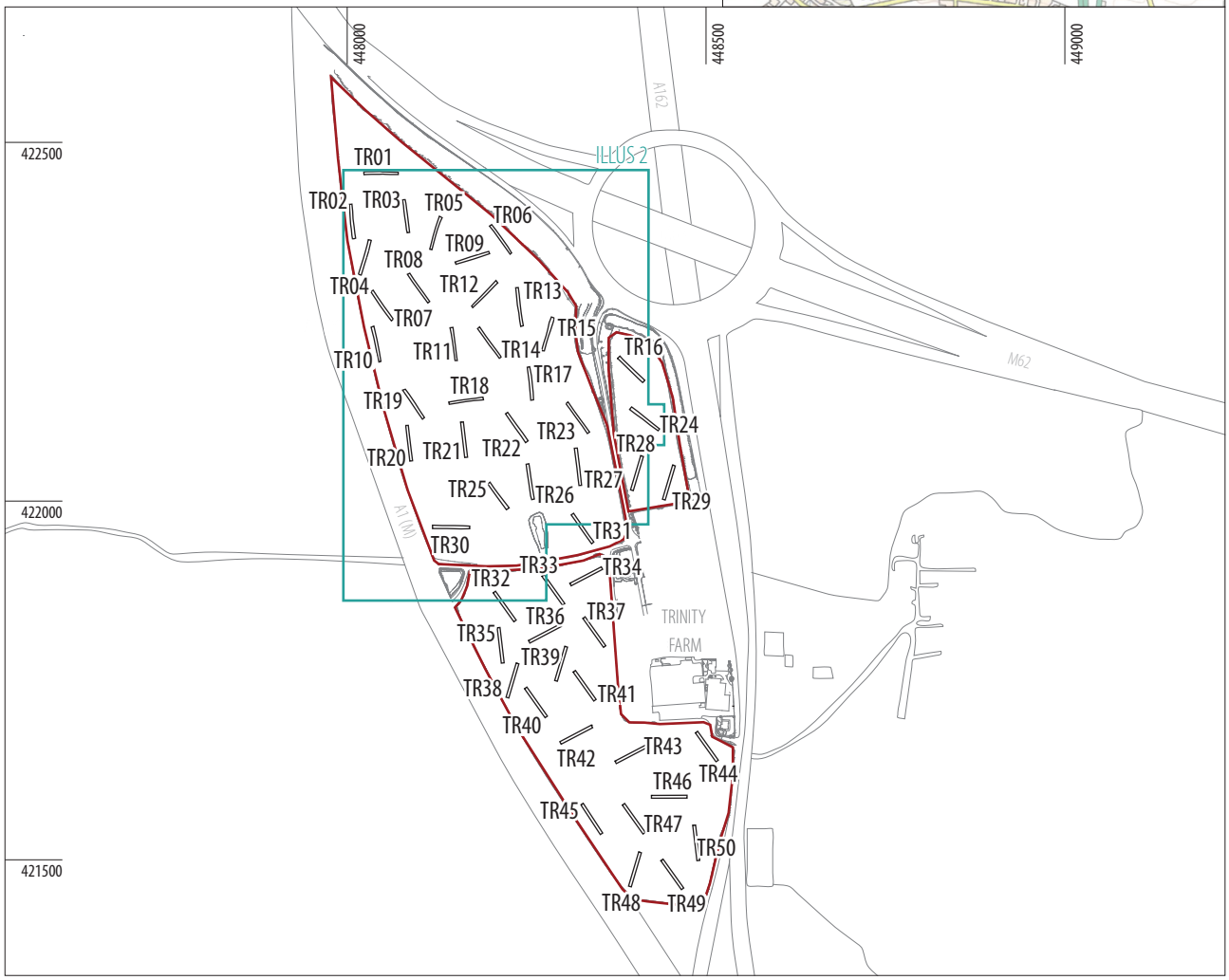
TRINITY FARM KNOTTINGLEY (TFWY/01)

land adjacent to A1(M)
off Grovehall Lane
Knottingley
West Yorkshire







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KEY

development boundary

trench location

N

0 500m

scale 1:10,000 @ A4

NORTH

ILLUS 1

Site location

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TRINITY FARM, KNOTTINGLEY, WEST YORKSHIRE

Archaeological Evaluation

Headland Archaeology (UK) Ltd conducted a trial trench archaeological evaluation on land at Trinity Farm, Knottingley, West Yorkshire, in response to a condition placed on planning permission for the construction of a distribution warehouse and employment development (Planning Ref: 15/00627/HYB). Trial trenching revealed no archaeological remains across the majority of the site. One enclosure was identified, alongside an undated trackway and field boundary. These may relate to Iron Age / Romano-British agricultural activity. Two post-medieval field boundaries were also identified. The results from the trial trenching evaluation supported those from the geophysical survey.

1 INTRODUCTION

1.1 PLANNING BACKGROUND

Wakefield District Council have granted planning permission for two phases of development on land at Trinity Farm, Knottingley: the construction of a distribution building and ancillary structures (Phase 1), and additional undefined employment development (Phase 2) (Planning Ref: 15/00627/HYB). Two conditions relating to the two phases of development (Conditions 28 and 58) were placed on this planning permission requiring a programme of archaeological investigation and recording, in accordance with policy D17 of the Council's Local Development Framework Policies Document and the guidance within the NPPF.

West Yorkshire Archaeological Advisory Service (WYAAS), the archaeological advisors to Wakefield District Council, produced a Specification outlining the required archaeological work: a trial trenching evaluation (WYAAS 2015). Prospect Archaeology, on behalf of Caddick Developments Ltd, commissioned Headland Archaeology (UK) Ltd to carry out the trial trenching evaluation and produce a report on the results. All evaluative works were carried out with the agreement of WYAAS.

This evaluation has been carried out in order to assess the extent, nature and survival of archaeological features within those parts of the site where intrusive development will take place. The results will allow WYAAS to determine the significance of any archaeological remains within the DA, and the impact of the proposed development on the archaeological resource. Decisions on the type and scope of mitigation measures (if required by WYAAS) will be based on the results of field evaluation.

1.2 SITE DESCRIPTION

The site, henceforth referred to as the DA, is located to the east of Pontefract and southwest of Knottingley, positioned between the A1(M) to the west, the A162 to the east, and the M62 to the north. It is centred at NGR SE 4802 1170.

The DA currently consists of three fields, divided by the north-south access road and the east-west Grove Hall Lane. It is mainly under arable cultivation (wheat), with farm, commercial, and domestic buildings on its eastern side. It covers an area of c25.3ha.

The DA is positioned on high ground above the surrounding roads. It lies at approximately 45mOD, with the land dropping to the northeast and south.

The solid geology of the DA comprises dolomitised limestone and Permian rocks comprising mudstones, siltstone, and sandstone (in the eastern part of the site). Diamicton Till deposits overlaid the Permian rocks in the eastern part of the site.

1.3 ARCHAEOLOGICAL BACKGROUND

The DA lies within a landscape known to have significant prehistoric remains. Ferrybridge Henge (Scheduled Monument: 1005789), a Neolithic henge, is positioned c1.5km to the north of the DA, and is thought to have retained its significance during the Bronze and Iron Age. Bronze Age remains were also identified at Holmfield Interchange (PRN7796), 1km to the northwest of the DA. An Iron Age square barrow at Fryston Park (PRN982), 2.5km to the north of the DA, remained in use into the Roman period.

Aerial photography of the area surrounding the DA has identified a late Iron Age and Romano-British landscape, including fields,

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trackways, and settlements. This includes a 40m square enclosure to the west of the A1 and south of Grove Hall Lane (PRN5570); and field and track boundaries to the north and west of the DA (PRN5777 and PRN990). Two short lengths of undated ditch are known from aerial photography to lie within the DA.

Little is known about the DA in the medieval and post-medieval periods. The DA is positioned on the edge of the three medieval townships of Ferry Fryston, Darrington, and Knottingley, and so is likely to have been open land in use for agriculture. Historic mapping from the mid 19th century (1852-3 OS Map) shows the DA as consisting of a number of agricultural fields, with Grove Hall Lane running across the DA and the A162 to the east. The buildings at Trinity Farm were constructed between 1965 and 1968. The M62 was then constructed between 1972 and 1975; and the A1(M) constructed in the early 21st century. The layout of the fields within the DA had simplified to its current format by 1982.

A geophysical survey has been undertaken across the DA, and revealed few archaeological remains (GSB Prospection Ltd, 2015). Anomalies relating to ploughing and drainage were detected, alongside the corner of a possible enclosure, pit-like anomalies and possible trackways (including that identified on aerial photography).

2 METHODOLOGY

2.1 OBJECTIVES

The general aim of the trenching evaluation was to obtain useful information concerning the presence, character, date, status and level of preservation of surviving archaeological remains. It also allows the curatorial authority to determine the impact of the proposed development on the archaeological resource, and to discuss the necessity for the preservation by record and/or the possibilities which may exist to preserve certain areas of archaeological remains in-situ if appropriate and thus determine their significance.

The archaeological investigations were carried out in order to:

- assess extent, layout, structure and date of features and deposits of archaeological interest;
- place, where possible, the identified features within their local and regional context;
- place the findings in the context of the results of earlier work in the surrounding area.

The local and regional research contexts are provided in The Neolithic, Bronze Age, and Iron Age in West Yorkshire (WYAAS 2008); The Iron Age and Romano-British Periods in West Yorkshire (WYAAS 2009); and Archaeology from the End of the Roman Period to the Norman Conquest (WYAAS2005). Specific questions from these frameworks will be analysed in relation to the evidence recovered from the evaluation, but may include:

- To what extent is there an earlier Neolithic in West Yorkshire? Is the middle and later Neolithic absent from west West Yorkshire? (WYAAS 2008, 9)
- Where is the later Bronze Age settlement in West Yorkshire? (WYAAS 2008, 13)
- Evaluation excavations which produce evidence of probably early pre-Roman Iron Age date should be extended to encompass an adequate structural, artefactual and ecofactual sample and these results should be fully analysed (WYAAS 2008, 23)
- The sequence of enclosure history extending from segmented ditches through pit alignments to gullies and ditches needs to be tested; Strategies for the excavation of linear features need to be reviewed: enclosures, droveways and fields appear to have been accorded different depositional patterns while attention may have focused on particular locations, for example junctions and entrances (WYAAS 2008, 34)
- The purpose of most Iron Age and Romano-British fields is not yet known, and the concomitant extent of pasture or arable regimes. Were some enclosures and fields inhabited or utilised year-round, and others seasonally or even more episodically? (WYAAS 2009, 21)

2.2 METHODOLOGY

Trial trenching was carried out between the 29th June and 16th July 2015. A total of 50 trenches were excavated across the DA, all measuring 50m in length by 4m in width.

The methodology underlying of the archaeological trial trenching programme was outlined in WYAAS' Specification. The trench layout was designed to evaluate the DA using a systematic trenching array, with the trenches spread evenly across the DA.

Two tracked mechanical excavators equipped with a toothless bucket were used to remove topsoil under direct archaeological control. Excavation continued until clean geological sediments or archaeological deposits were encountered.

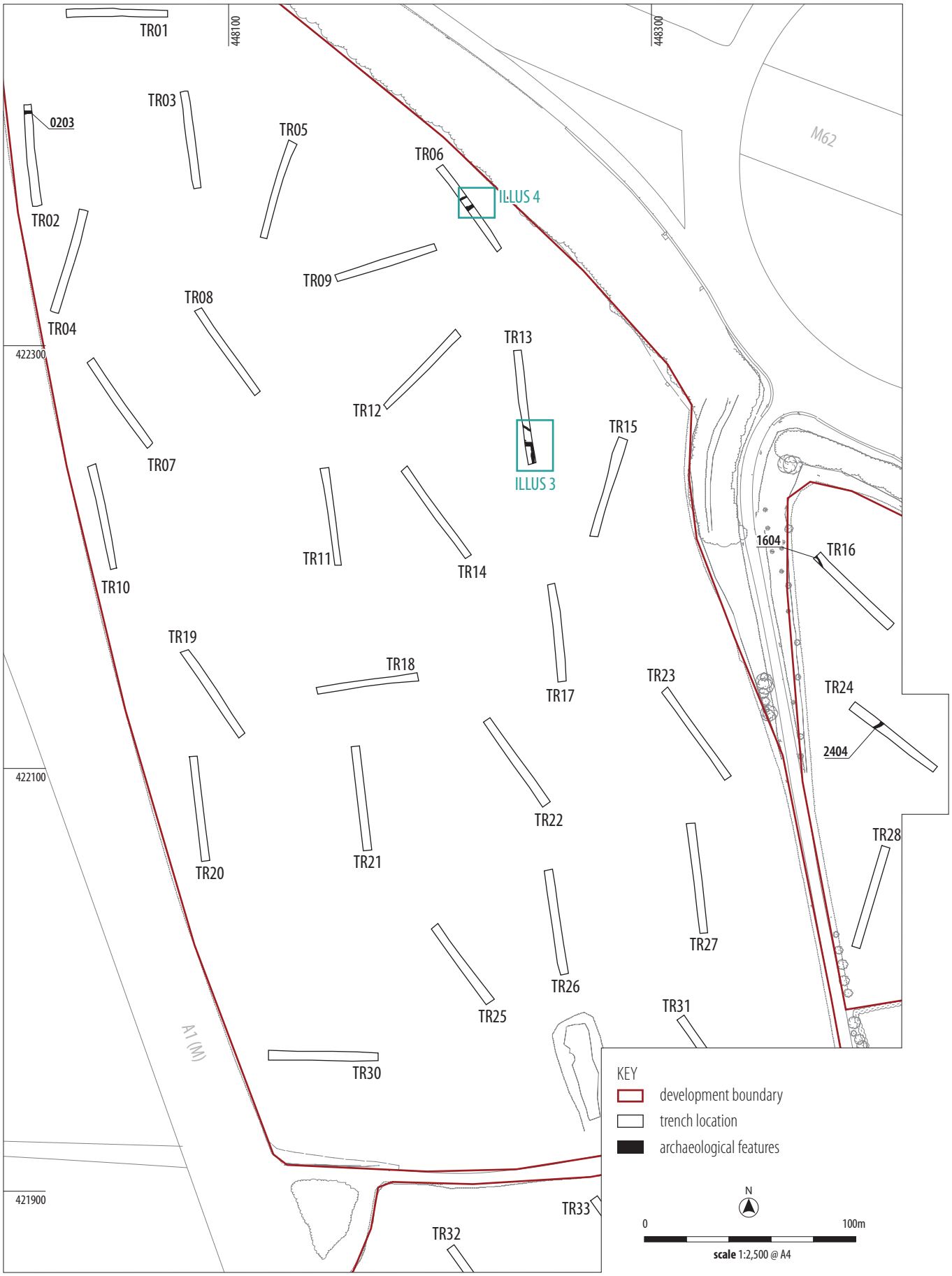
Further excavation required to satisfy the objectives of the evaluation was continued by hand. A representative sample, sufficient to meet the objectives of the evaluation, of identified features was investigated by hand and all features were recorded. The stratigraphy of each trench was recorded in full.

2.3 RECORDING

All recording was in accordance with the code of practice of the Chartered Institute for Archaeologists (CIfA) and in line with WYAAS' Specification. All trenches and contexts were given unique numbers. All recording was undertaken on pro forma record cards that conform to accepted archaeological standards. All stratigraphic relationships were recorded.

An overall site plan at an appropriate scale and relative to the National Grid was recorded by digital survey using a differential GPS.

A full photographic record comprising digital photography was taken. A metric scale was clearly visible in record photographs.



ILLUS 2

Trench plan showing archaeological features

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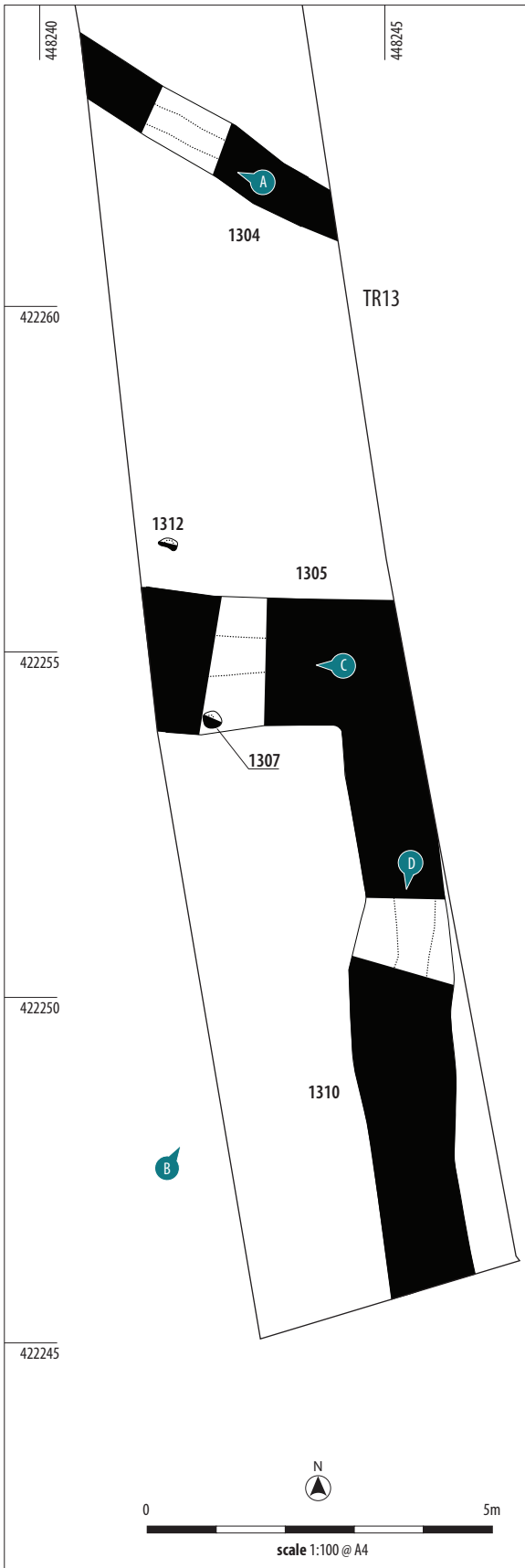

A, ditch [1304]

B, enclosure corner

C, ditch [1305]

D, ditch [1310]

ILLUS 3

Features in Trench 13

3 RESULTS

3.1 INTRODUCTION

Full trench descriptions, including orientation, length, and depth are presented in Appendix 1.1. Technical details of individual contexts are presented in Appendix 1.2. Contexts are numbered by trench number: ie Trench 1 (0101), Trench 2 (0201). Cut features are shown as [0101] whilst their fills are expressed as (0102), for example.

Undisturbed natural deposits generally comprised a compact grey brown silty / sandy clay with frequent limestone inclusions and patches of mottled yellow, cream, and brown sands. Areas of solid crumbly limestone were also observed. This was observed between 0.29m and 0.86m beneath the present ground-surface, generally around 0.35m and 0.5m beneath the ground-surface. It was observed at deeper depths along the north-eastern part of the DA, particularly in Trench 15.

The topsoil was observed across the entire DA. This comprised a grey brown sandy clay with occasional charcoal flecks and small stones. Occasional finds of modern debris were recovered from the topsoil deposit, particularly in Trenches 33 and 34 close to the existing farmyard. Finds recovered from the topsoil included numerous pieces of modern pottery, metal finds (nails, horseshoes, etc), and ceramic building material.

Underlying the topsoil was a yellow brown sandy clay with occasional limestone inclusions. This was generally between 0.1m and 0.25m in thickness. Thicker deposits of subsoil, up to 0.5m in thickness, were observed in Trench 15. Finds recovered from the subsoil include ceramic and glass.

The stratigraphy of the majority of the trenches across the DA simply consisted of topsoil over subsoil over natural, with no archaeological finds, features, or deposits. The only exceptions to this were Trench 13, where the corner of an enclosure was identified; Trench 6, which contained two parallel ditches; Trench 2, where a single ditch was identified, and Trenches 16 and 24 where post-medieval field boundaries were identified.

3.2 PROBABLE ENCLOSURE

Two ditches were excavated towards the southern end of Trench 13: [1305] and [1310]. They connected up, forming a right angle and the probable corner of an enclosure. Ditch [1305] ran east-west across the trench (a distance of 4m), and was 1.9m wide and 0.71m deep. Ditch [1310] ran north-south for 9.3m (continuing beyond the southern end of the trench) and measured 1.66m in width by 0.69m in depth. Both ditches had steep sides and a flat base.

They contained a single compact orange grey brown silty / sandy clay, with occasional small stones and charcoal flecks. Ditch [1310] contained a single scrap of Romano-British pottery, and ditch [1305] contained a flint flake and chip of prehistoric date. Small fragments of animal bone were also noted and recovered from these ditches, and may suggest that the enclosure was involved in animal management in some way.

Two post-holes were also recorded in association with these ditches. Post-hole [1307] was positioned on the southern side of ditch [1305], and post-hole [1312] was to the north of ditch [1305]. Both post-holes were sub-circular and undated. They were on a line with each-other and so are thought to be related. Their positioning close to the enclosure ditches suggests they may be associated with the enclosure in some way, potentially forming fence-lines either side of the enclosure ditch.

These two ditches were identified on the geophysical survey as the corner of an enclosure. The ditches are shown on the geophysical survey as continuing to the south and west, with a possible return along the southern side. No western side to the enclosure was identified by the geophysical survey. Short stretches of ditch or large pits were identified on the survey within the area of the enclosure.

It seems most probable that these ditches formed the corner of an animal enclosure. This is supported by the lack of finds to indicate domestic or occupation activity, and the presence of animal bone within the ditch fills. The presence of a single sherd of 3rd century pottery from the topsoil of Trench 13, alongside the small scrap of Romano-British pottery from the ditch fill of [1310], suggests that it may date from the Romano-British period. This seems relatively likely based on the Late Iron Age and Romano-British landscape identified via aerial photographs in this general area.

3.3 UNDATED TRACKWAY

Two parallel NE-SW aligned ditches in Trench 6, [0604] and [0607], were investigated. These ditches were identified in the geophysical survey, and were thought to have been part of the trackway identified on OS mapping. However, further map regression has proved that these ditches lie to the north of those on OS mapping.

Ditch [0604] measured 0.6m in width by 0.06m in depth. It had gently-sloping sides and a flat base, with a single firm brown clay fill with limestone inclusions. No finds were recovered from this ditch.

Ditch [0607] measured 1.73m in width by 0.77m in depth. It had slightly concave sides and a shallow concave base. It contained two fills – (0606), the primary (silting) fill, was a firm orange brown sandy silt with abundant limestone inclusions; and (0607), the secondary fill, was also an orange brown sandy silt with frequent mollusc shells. No finds were retrieved from this ditch.

Although these two ditches have different profiles, the fact they are parallel to each other suggests they may be related. They may have functioned as a trackway, or a field boundary and adjacent drainage ditch. They are not shown on any historic maps, and so pre-date 1850 and may be Iron Age / Romano-British or medieval in date.

3.4 UNDATED FIELD BOUNDARY

One ditch was investigated in Trench 2: [0203]. This was aligned east-west, and measured 1.05m in width by 0.38m in depth. It was U-shaped and contained a single firm grey brown clay fill with occasional medium stones. No datable finds were retrieved from this ditch – the only finds were a few fragments of animal bone.

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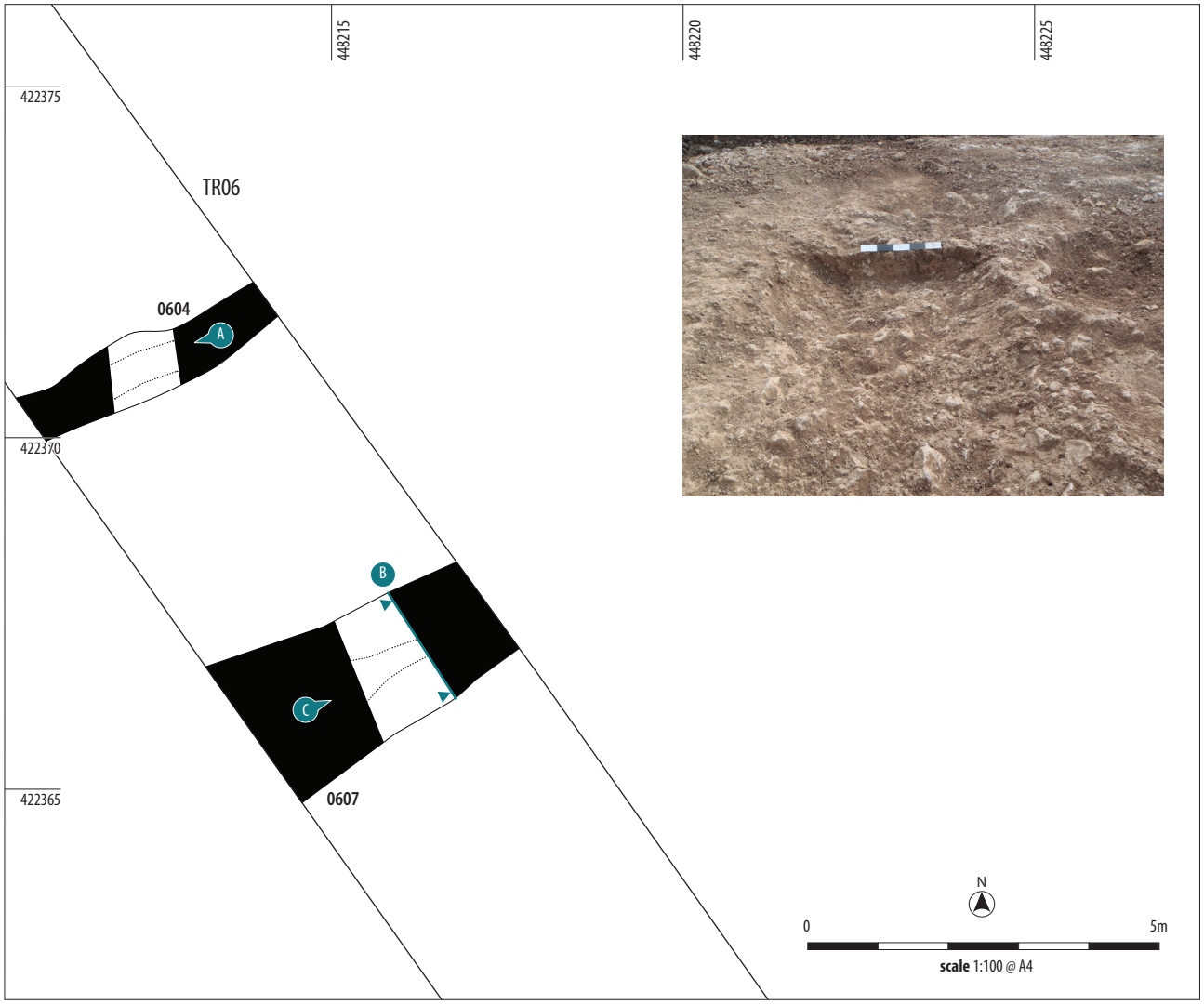

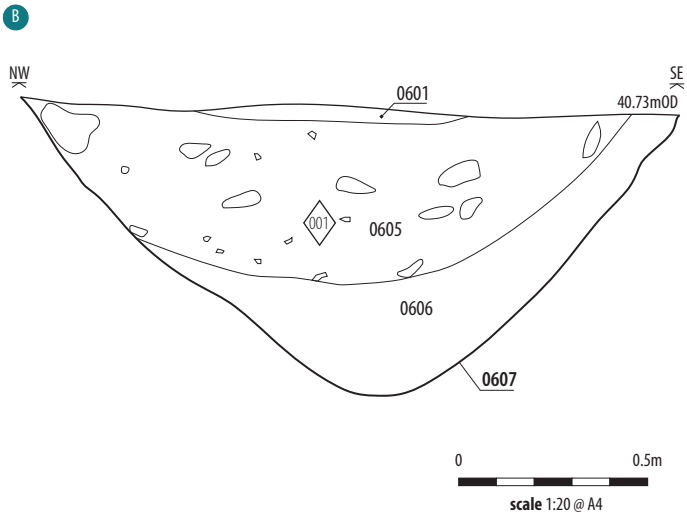

ILLUS 4

Ditches in Trench 6: SW-facing section of ditch [0604] and NE-facing section of ditch [0607]

ILLUS 5

W facing section of post-medieval field boundary [2404]

ILLUS 6

SE facing section of post-medieval field boundary [1604]

This ditch is not shown on any historic maps, demonstrating that it pre-dates 1850 and the post-medieval field layout. It may be a field boundary relating to earlier (potentially medieval or even Iron Age / Romano-British) activity.

3.5 POST-MEDIEVAL FIELD BOUNDARIES

The two ditches in Trenches 16 and 24, [1604] and [2404], are identifiable as field boundaries on post-medieval mapping.

Ditch [1604] was aligned N-S and measured 0.6m in width by 0.08m in depth. It had steep sides and a flat base, and contained a single dark grey brown silty clay fill with occasional small stones. No finds were recovered from this ditch. It is identifiable on historic maps from the 1854 OS Map up to the 1968 OS Map, but had disappeared by the time of the 1975 OS Map (when the M62 and roundabout to the north of the site were constructed). It is shown on these OS Maps as part of the south-western boundary to a small field on the western side of the A162.

Ditch [2404] was aligned northeast-southwest, and measured 1.22m in width by 0.55m in width. It had steep sides and an irregular base, and contained a single dark brown grey silty clay fill with moderate large stones and occasional charcoal fragments. Modern finds, including barbed wire, pottery, and an animal tooth, were recovered from this fill. This ditch is shown on OS Maps as a field boundary from the 1854 OS Map up to the 1968 OS Map but was also backfilled before 1975 (with the construction of the M62 and associated works). It was part of a field boundary separating fields to the north of Trinity Farm.

3.6 FINDS REPORT

JULIE FRANKLIN, IAN ROWLANDSON, JULIE LOCHRIE

The finds assemblage numbered 164 sherds (767g) of pottery, 13 sherds of ceramic building materials, 11 of clay pipe, 59 metal finds, 25 sherds of glass, two finds of chipped stone and five miscellaneous finds of ceramic and stone. A handful of finds were of prehistoric and Roman date, but the vast majority of the assemblage was modern, mostly retrieved from sampling or metal-detecting topsoil. The finds are quantified by trench in **Table 1**. A complete catalogue of all the finds is given at the end (Appendix 2).

Roman Pottery

Two sherds (17g) of pottery were of Roman date, both found in Trench 13. The first was a fragment from a deep bowl with no neck in a South Yorkshire grey ware (Buckland et al 1980, Fig.4.29), found in the topsoil (1300). It can be dated to the 3rd century. A tiny scrap of a similar fabric, also of possible Roman date was found in ditch [1310] (1309). This sherd is too small and isolated to date the ditch with any certainty, however the presence of another Roman sherd nearby certainly suggests activity in the vicinity during this period.

Assemblages of Roman pottery from West Yorkshire are often small, fragmentary and heavily abraded with many vessels of fabric types that were brought upstream from production sites further east. It is likely that the inhabitants of the site made limited use of pottery. Vessels such as those from this site may have moved west as a make weight on boats moving up river picking up querns or building stone.

Modern pottery

The modern pottery assemblage numbers 162 sherds (750g). Sherds are typically small and abraded and probably introduced as part of midden material, to help fertilise and break up the soil. Types present are predominantly whitewares, some transfer printed, sponge-printed, banded slipwares. There are also sherds of red earthenware, some glazed black or slip lined and glazed yellow. There are also sherds of stoneware bottles and plain porcelain sherds and a few sherds of creamware. In short it is a typical assemblage of 19th century domestic table and kitchen wares. Deposition may have begun as early as the late 18th century and continued into the 20th century.

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TR	Pottery (Rom)		Pottery (Mod)		Lithics	CBM	Clay pipe	Metal-work	Glass	Misc	Dating
	Count	Wgt	Count	Wgt	Count	Count	Count	Count	Count	Count	
01	–	–	8	42g	–	–	1	1	2	1	Mod
02	–	–	–	–	1	–	–	1	–	–	Meso-BA, Mod
03	–	–	7	42g	–	5	1	2	–	–	Mod
05	–	–	14	45g	–	1	1	1	1	–	Mod
06	–	–	13	33g	–	1	1	–	4	–	Mod
09	–	–	8	23g	–	–	–	–	–	–	Mod
10	–	–	12	38g	–	–	1	–	6	–	Mod
11	–	–	6	33g	–	–	1	2	2	–	Mod
12	–	–	22	65g	–	–	–	2	2	2	Mod
13	2	17g	3	28g	1	–	1	–	2	–	PH, Rom, Mod
18	–	–	9	98g	–	1	–	–	1	–	Mod
19	–	–	1	16g	–	–	–	–	–	–	Mod
21	–	–	10	81g	–	1	1	1	–	–	Mod
23	–	–	5	16g	–	1	2	–	1	–	Mod
24	–	–	2	38g	–	–	–	43	–	1	Mod
26	–	–	6	19g	–	3	–	–	–	–	Mod
30	–	–	2	4g	–	–	1	–	1	–	Mod
33	–	–	8	26g	–	–	–	–	–	–	Mod
34	–	–	22	91g	–	–	–	5	2	1	Mod
43	–	–	4	12g	–	–	–	1	1	–	Mod
TOTAL	**2**	**17g**	**162**	**750g**	**2**	**13**	**11**	**59**	**25**	**5**	

TABLE 1

Quantification of finds by trench, with spot dating

Chipped stone

Two finds of chipped flint were found. The first was found in the Trench 2 topsoil (200), a tool made on an overshot hard hammer blade. It is likely to date between the Mesolithic and Bronze Age. A flake and chip found in ditch [1305] (1306) are less distinctive but are likely to be prehistoric in date. Again, these finds are too small and isolated to date the ditch.

Other modern finds

The remaining finds are all of modern or probable modern date. Finds include 13 sherds (333g) of ceramic building materials, 11 sherds (20g) of clay pipe, two copper alloy finds, 57 iron finds, 25 sherds (206g) of glass, three ceramic finds and two of stone. The finds represent typical domestic and building waste of the 19th century, including bricks, chimney sherds, roof tiles, clay pipe sherds, bottle and window glass and a spoon. Other finds point towards the agricultural use of the land including fragments of field drain, horseshoes, bolts and wire. Possibly the most unusual find was a small black button apparently made of stone (3400). Three finds of ceramic kiln props (2403) (1200) indicate that waste from industrial pottery kilns was among the debris spread over the fields. There were potteries in Leeds and Castleford in the 19th century and it is not uncommon for industrial debris such as this to be utilised in this way. This may well be the source of some of the pottery sherds.

Discussion

The finds assemblage hints at activity in the area in the prehistoric and Roman periods and may indicate possible dating for ditches [1305] (1306) and [1310] (1309). Possibly from the late 18th century and certainly by the 19th century there is evidence for attempts at land improvement for agricultural purposes, mainly in terms of manuring. Most of the finds were found in the topsoil, a few in the subsoil. The only stratified modern finds were found in ditch [2404] (2403) and included iron wire (probably deriving from fencing), two sherds of pottery and a ceramic kiln prop. They suggest a probable 19th century date for the fill of this ditch.

3.7 ENVIRONMENTAL REPORT

LAURA BAILEY, TIM HOLDEN

Introduction

Four 40 litre samples taken during archaeological works at Trinity Farm, Wakefield, were received for palaeoenvironmental assessment. The samples were taken from the fills of ditches. The aims of the assessment were to assess the presence, preservation and abundance of any environmental remains in the samples and to characterize the assemblage as far as possible.

Methodology

Bulk samples were subjected to flotation and wet sieving in a Siraf-style flotation machine. The floating debris (the flot) was collected in a 250 µm sieve and, once dry, scanned using a binocular microscope. Any material remaining in the flotation tank (retent) was wet-sieved through a 1mm mesh and air-dried. All samples were scanned using a stereomicroscope at magnifications of x10 and up to x100. Identifications, where provided, were confirmed using modern reference material and seed atlases including Cappers et al. (2006).

Results

Results of the assessment are presented in Appendices 3.1 (Retent samples) and 3.2 (Flot samples). Material suitable for AMS (Accelerated Mass Spectrometry) radiocarbon dating is shown in the tables.

Wood charcoal

A small amount of heavily fragmented, abraded, wood charcoal was present in the flots. Where possible the charcoal was identified as oak or non-oak. Only one fragment of non-oak charcoal, recovered from the fill (1309) of ditch [1310], was of a suitable size for AMS dating.

Charred plant remains

A single fat hen (Chenopodium sp.) seed was present in the fill (0605) of Ditch [0607]. Fat hen is commonly found in disturbed ground, waste places and arable land.

Molluscs

Several well-preserved shells from terrestrial molluscs were present. The largest number of shells were from the fills (0605) and (0606) of ditch [0607]. Many retained good coloration and delicate surface detailing and were almost certainly modern intrusions.

Bone

Small, heavily fragmented bone fragments were recovered from the fill (1306) and (0606) of ditches [1305] and [0607].

Discussion

The environmental assemblage offers little insight into site economy.

3.8 ANIMAL BONE ASSESSMENT

LAURA BAILEY, TIM HOLDEN

Introduction

Hand collected animal bone recovered during archaeological works at Trinity Farm, Wakefield, was received for assessment. The bone was from deposit (2403) and (0202).

Results

The assemblage comprised a single cow molar and a heavily fragmented long bone. It was in a very poor state of preservation, with much erosion on the surface which prevented recording of any potential pathology or marks of butchery. The species present are listed in **Table 2** below.

Context	Wt(g)	Preservation	Species present
2403	18	Poor	Cow molar
0202	79	Poor	Large mammal- heavily fragmented long bone

TABLE 2

Animal bone assemblage

Discussion

The assemblage offered little information on site economy. No further analysis is required of this small assemblage.

3.9 DESCRIPTION OF THE SIGNIFICANCE OF THE HERITAGE ASSETS

The local and regional research contexts are provided in the various West Yorkshire Archaeological Services publications. In Section 2.1 of this document we identified research aims relating to prehistoric and Iron Age / Romano-British activity. The results of the trial trenching evaluation provided some evidence for activity in certain parts of the DA, as outlined in the below table:

Description of HA	Trench	Feature/s	Significance of HA (Low, Medium, High) and of local, regional, national, international interest
HA1: Enclosure	13	1305; 1310; 1307; 1312	Medium significance of local interest.
HA2: Undated trackway	06	0604; 0607	Low significance of local interest.
HA3: Undated field boundary	02	0203	Low significance of local interest.
HA4: Post-medieval field boundaries	16; 24	1604; 2404	Low significance of local interest.

TABLE 3

Heritage Assets (HA) recorded during intrusive evaluation

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HA1 consists of the remains of an undated enclosure positioned around Trench 13. The corner of this was identified, alongside two post-holes. Part of this enclosure was identifiable on the geophysical survey. It is thought to have functioned as an animal enclosure, potentially Iron Age / Romano-British in date based on the presence of a single scrap of Romano-British pottery. It is considered to have medium significance of local interest.

HA2 and HA3 comprise the remains of an undated trackway and field boundary in Trenches 2 and 6. These are not identifiable on any historic maps, and so pre-date 1850 and the post-medieval field layout. They may relate to Iron Age / Romano-British agricultural activity. They are considered to have low significance of local interest.

HA4 consists of the remains of two post-medieval field boundaries in Trenches 16 and 24. These are identifiable on historic maps from the mid-19th century up to the second half of the 20th century. They are considered to have low significance of local interest.

4 CONCLUSIONS

The trenches across the majority of the DA revealed no evidence for archaeological activity, with the exposed stratigraphy simply comprising topsoil overlying subsoil over the natural geological deposit.

Archaeological remains comprised an enclosure in Trench 13, an undated trackway in Trench 6, and an undated field boundary in Trench 2. These may represent Iron Age / Romano-British agricultural activity in the area, based on the history of the surrounding landscape. Two post-medieval field boundaries were also identified in the eastern part of the DA.

The results from the trial trenching evaluation supported those gained in the geophysical survey. The parallel ditches in Trench 2 and enclosure in Trench 13 were identified in both the geophysical survey and the trial trenching. The only feature identified in the trial trenching but not in the geophysical survey was the ditch in Trench 2.

5 BIBLIOGRAPHY

British Geological Survey [website] Available: http://bgs.ac.uk Accessed: 27 July 2015

Buckland, P C, Magilton, J R and Dolby, M J 1980 'The Roman Pottery Industries of South Yorkshire: A Review', ***Britannia*** 11: 145–64.

Cappers, R T J, Bekker, R M & Jans, J E A 2006 ***Digital seed atlas of the Netherland*** Barkhuis Publishing and Groningen University Library: Groningen.

CIfA 2011 ***Standards and Guidance for archaeological field evaluation*** Available: http://www.archaeologists.net/sites/default/files/CIfAS&GFieldevaluation_1.pdf Accessed: 27 July 2015.

Communities and Local Government 2012 ***National Planning Policy Framework.***

English Heritage 2009 ***Management of Research Projects in the Historic Environment.***

GSB Prospection Ltd 2015 ***Geophysical Survey Report: Trinity Farm, Wakefield.***

Old Maps [website] Available: http://www.old-maps.co.uk/ Accessed: 27 July 2015.

Prospect Archaeology 2015 ***Trinity Farm, Knottingley, Wakefield: Cultural Heritage Assessment*** Unpublished client report.

WYAAS 2015 ***Specification for Trial Trenching to evaluate and record archaeological remains in advance of development at Trinity Farm, Knottingley,*** Unpublished client report.

6 APPENDICES

APPENDIX 1 SITE REGISTERS

Appendix 1.1 Trench register

Trench	Orientation	D (m)	Description	L x W (m)
01	E-W	0.35	Topsoil (0100) over subsoil (0101) over the natural geological deposit (0102). One possible tree-bowl. No archaeological features.	50 x 4
02	N-S	0.45	Topsoil (0200) over the natural geological deposit (0201). One ditch [0203]. Three land drains.	50 x 4
03	N-S	0.55	Topsoil (0300) over subsoil (0301) over the natural geological deposit (0302). Five land drains. No archaeological features.	50 x 4
04	NNE-SSW	0.55	Topsoil (0400) over subsoil (0401) over the natural geological deposit (0402). Six land drains. No archaeological features.	50 x 4
05	NE-SW	0.55	Topsoil (0500) over subsoil (0501) over the natural geological deposit (0502). One modern concrete footing and three land drains. No archaeological features.	50 x 4
06	NW-SE	0.3	Topsoil (0600) over subsoil (0601) over the natural geological deposit (0602). Two parallel ditches [0604] and [0607]. Two land drains.	50 x 4
07	NW-SE	0.5	Topsoil (0700) over subsoil (0701) over the natural geological deposit (0702). Two land drains. No archaeological features.	50 x 4
08	NW-SE	0.65	Topsoil (0800) over subsoil (0801) over the natural geological deposit (0802). One land drain. No archaeological features.	50 x 4
09	ENE-WSW	0.6	Topsoil (0900) over subsoil (0901) over the natural geological deposit (0902). One possible tree-bowl and one sink-hole. No archaeological features.	50 x 4
10	N-S	0.5	Topsoil (1000) over subsoil (1001) over the natural geological deposit (1002). Six land drains. No archaeological features.	50 x 4
11	NE-SW	0.6	Topsoil (1100) over subsoil (1101) over the natural geological deposit (1102). Eight land drains. No archaeological features.	50 x 4
12	NE-SW	0.7	Topsoil (1200) over subsoil (1201) over the natural geological deposit (1202). One land drain. No archaeological features.	50 x 4
13	N-S	0.5	Topsoil (1300) over subsoil (1301) over the natural geological deposit (1302). Two ditches formng the corner of a possible enclosure [1305] and [1310], with two associated post-holes [1307] and [1312]. One other ditch [1304].	50 x 4
14	NW-SE	0.45	Topsoil (1400) over subsoil (1401) over the natural geological deposit (1402). One land drain. No archaeological features.	50 x 4
15	NNE-SSW	0.6	Topsoil (1500) over subsoil (1501) over the natural geological deposit (1502). One land drain. One possible palaeo-channel. No archaeological features.	50 x 4
16	NW-SE	0.5	Topsoil (1600) over subsoil (1601) over the natural geological deposit (1602). Three land drains. No One field boundary at NW end, on boundary maps.	50 x 4
17	N-S	0.5	Topsoil (1700) over the natural geological deposit (1702). Five land drains. No archaeological features.	50 x 4
18	E-W	0.55	Topsoil (1800) over subsoil (1801) over the natural geological deposit (1802). Four land drains. No archaeological features.	50 x 4
19	NW-SE	0.4	Topsoil (1900) over subsoil (1901) over the natural geological deposit (1902). Four land drains. No archaeological features.	50 x 4
20	N-S	0.4m	Topsoil (2000) over subsoil (2001) over the natural geological deposit (2002). One tree-bowl. Eight land drains. No archaeological features.	50 x 4
21	N-S	0.5m	Topsoil (2100) over subsoil (2101) over the natural geological deposit (2102). Three land drains. No archaeological features.	50 x 4
22	NW-SE	0.45m	Topsoil (2200) over subsoil (2201) over the natural geological deposit (2202). Five land drains. No archaeological features.	50 x 4
23	NW-SE	0.55m	Topsoil (2300) over subsoil (2301) over the natural geological deposit (2302). Two land drains. No archaeological features.	50 x 4
24	NW-SE	0.35m	Topsoil (2400) over subsoil (2401) over the natural geological deposit (2402). Five land drains. One field boundary in centre of trech, on boundary maps.	50 x 4
25	NW-SE	0.55m	Topsoil (2500) over subsoil (2501) over the natural geological deposit (2502). Seven land drains. No archaeological features.	50 x 4
26	N-S	0.65m	Topsoil (2600) over subsoil (2601) over the natural geological deposit (2602). Nine land drains. No archaeological features.	50 x 4
27	N-S	0.5m	Topsoil (2700) over subsoil (2701) over the natural geological deposit (2702). Eight land drains. No archaeological features.	50 x 4

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Trench	Orientation	D (m)	Description	L x W (m)
28	NNE-SSW	0.35m	Topsoil (2800) over subsoil (2801) over the natural geological deposit (2802). NIne land drains. No archaeological features.	50 x 4
29	NNE-SSW	0.4m	Topsoil (2900) over subsoil (2901) over the natural geological deposit (2902). Five land drains. No archaeological features.	50 x 4
30	E-W	0.55m	Topsoil (3000) over subsoil (3001) over the natural geological deposit (3002). Five land drains. No archaeological features.	50 x 4
31	NW-SE	0.55m	Topsoil (3100) over subsoil (3101) over the natural geological deposit (3102). Seven land drains. No archaeological features.	50 x 4
32	NW-SE	0.55m	Topsoil (3200) over subsoil (3201) over the natural geological deposit (3202). Four land drains. No archaeological features.	50 x 4
33	NW-SE	0.4m	Topsoil (3300) over subsoil (3301) over the natural geological deposit (3302). Nine land drains. No archaeological features.	50 x 4
34	NE-SW	0.45m	Topsoil (3400) over subsoil (3401) over the natural geological deposit (3402). Ten land drains. No archaeological features.	50 x 4
35	N-S	0.45m	Topsoil (3500) over subsoil (3501) over the natural geological deposit (3502). Six land drains. No archaeological features.	50 x 4
36	NE-SW	0.5m	Topsoil (3600) over subsoil (3601) over the natural geological deposit (3602). Four land drains. No archaeological features.	50 x 4
37	NW-SE	0.45m	Topsoil (3700) over subsoil (3701) over the natural geological deposit (3702). Five land drains. No archaeological features.	50 x 4
38	NE-SW	0.4m	Topsoil (3800) over subsoil (3801) over the natural geological deposit (3802). Four land drains. No archaeological features.	50 x 4
39	NE-SW	0.35m	Topsoil (3900) over subsoil (3901) over the natural geological deposit (3902). Eight land drains. No archaeological features.	50 x 4
40	NW-SE	0.35m	Topsoil (4000) over subsoil (4001) over the natural geological deposit (4002). Eight land drains. No archaeological features.	50 x 4
41	NW-SE	0.35m	Topsoil (4100) over subsoil (4101) over the natural geological deposit (4102). Thirteen land drains. No archaeological features.	50 x 4
42	NE-SW	0.35m	Topsoil (4200) over subsoil (4201) over the natural geological deposit (4202). Ten land drains. No archaeological features.	50 x 4
43	NE-SW	0.45m	Topsoil (4300) over subsoil (4301) over the natural geological deposit (4302). Seven land drains. No archaeological features.	50 x 4
44	NW-SE	0.4m	Topsoil (4400) over subsoil (4401) over the natural geological deposit (4402). Five land drains. No archaeological features.	50 x 4
45	NW-SE	0.35m	Topsoil (4500) over subsoil (4501) over the natural geological deposit (4502). Four land drains. No archaeological features.	50 x 4
46	E-W	0.35m	Topsoil (4600) over subsoil (4601) over the natural geological deposit (4602). Two land drains. No archaeological features.	50 x 4
47	NW-SE	0.4m	Topsoil (4700) over subsoil (4701) over the natural geological deposit (4702). Three land drains. No archaeological features.	50 x 4
48	NE-SW	0.4m	Topsoil (4800) over subsoil (4801) over the natural geological deposit (4802). Two land drains. One service. No archaeological features.	50 x 4
49	NW-SE	0.4m	Topsoil (4900) over subsoil (4901) over the natural geological deposit (4902). Three land drains. No archaeological features.	50 x 4
50	NW-SE	0.4m	Topsoil (5000) over subsoil (5001) over the natural geological deposit (5002). Eight land drains. No archaeological features.	50 x 4

Appendix 1.2 Context register

Context	Trench	Description	Dimensions
0100	01	Topsoil: dark grey brown fine-grained sandy clay.	0 – 0.24m
0101	01	Subsoil: mid red orange fine-grained sandy clay.	0.24 – 0.34m
0102	01	Natural: limestone, with frequent sink holes and cracks filled with subsoil.	0.34+
0200	02	Topsoil: mid grey brown silty sand with occasional charcoal flecks and small stones.	0 – 0.35m
0201	02	Natural: light brown grey silty clay with occasional stones and charcoal flecks. Patches of grey brown clayey sand.	0.35m+
0202	02	Single fill of ditch [0203]. Firm grey brown clay with medium stones. Disuse fill. Undated.	4m+ (E – W) x 1.05m x 0.38m
0203	02	Cut of E-W aligned linear ditch. Moderately sloping sides and flat base (U-shaped). Undated. Not on historic maps or geophysical survey. Probable field boundary.	4m+ (E – W) x 1.05m x 0.38m
0300	03	Topsoil: mid grey brown fine-grained sandy clay with occasional small stones.	0 – 0.28m
0301	03	Subsoil: mid orange red fine-grained sandy clay with occasional small stones, brick, and limestone inclusions.	0.28 – 0.56m
0302	03	Natural: compact range red clay with frequent limestone inclusons and sand pockets.	0.56m+
0400	04	Topsoil: mid brown grey silty sand with rare charcoal flecks and small stones.	0 – 0.3m

Context	Trench	Description	Dimensions
0401	04	Subsoil: grey brown sandy c-aly with occasional small stones.	0.3 – 0.5m
0402	04	Natural: range brown silty sand with patches of brown grey silty clay and limestone inclusions.	0.5m+
0500	05	Topsoil: brown grey sandy clay with occasional small stones.	0 – 0.25m
0501	05	Subsoil: compact orange brown sandy clay with occasional small limestone inclusions.	0.25 – 0.5m
0502	05	Natural red brown sandy clay with frequent limestone inclusions and patches of sand.	0.5m+
0600	06	Topsoil: grey brown fine-grained sandy clay with occasional small stones.	0 – 0.29m
0601	06	Subsoil: red orange fine-grained sandy clay with frequent limestone inclusions.	0.29 – 0.34m
0602	06	Natural: limestone. Crumbly, with holes filled with subsoil.	0.34m+
0603	06	Single fill of ditch [0604]. Firm brown clay with medium-sized limestone inclusions. Disuse fill. Undated.	4m+ (NE – SW) x 0.6m x 0.06m
0604	06	Cut of NE-SW aligned linear ditch. Gently sloping sides and flat base. Undated. On geophysical survey, but not on historic maps. Parallel to [0607] and so may have functioned alongside it.	4m+ (NE – SW) x 0.6m x 0.06m
0605	06	Secondary fill of ditch [0607]. Firm orange brown sandy silt with abundant medium to large limestone inclusions. Frequent mollusc shells. Disuse fill. Undated.	4m+ (NE – SW) x 1.6m x 0.43m
0606	06	Primary fill of ditch [0607]. Firm orange brown sandy silt with abundant small to medium limestone inclusions. Silting of ditch. Undated.	4m+ (NE – SW) x 1.3m x 0.3m
0607	06	Cut of NE-SW aligned liner ditch. Moderate and slightly concave sides and a shallow concave base. Undated. On geophysical survey, but not on historic maps. Parallel to [604] and so may have functioned alongside it.	4m+ (NE – SW) x 1.73m x 0.77m
0700	07	Topsoil: grey brown silty sand with occasional small stones and rare charcoal flecks.	0 – 0.34m
0701	07	Subsoil: light yellow brown silty sand with rare small stones.	0.34 – 0.5m
0702	07	Natural: light brown grey silty clay with frequent limestone inclusions and patches of sand.	0.5m+
0800	08	Topsoil: dark brown grey clay silt with occasional small stones.	0 – 0.25m
0801	08	Subsoil: yellow brown sandy clay with frequent limestone inclusions.	0.25 – 0.35m
0802	08	Natural: grey brown sandy clay withh abundant lmestone inclusions and pockets of clay sand.	0.35m+
0900	09	Topsoil: grey brown fine-grained sandy clay with occasional small stones.	0 – 0.28m
0901	09	Subsoil: red orange fine-grained sandy clay with frequent limestone inclusions.	0.28 – 0.5m
0902	09	Natural: compact cream orange red sands and limestone patches.	0.5m+
1000	10	Topsoil: grey brown sandy clay with occasional limestone and brick inclusions.	0 – 0.3m
1001	10	Subsoil: yellow orange sandy clay with limestone inclusions.	0.3 – 0.5m
1002	10	Natural: yellow brown sandy clay with frequent small-medium limestone inclusions and sand patches.	0.5m+
1100	11	Topsoil: dark brown grey silty clay with frequent medium to large stones.	0 – 0.26m
1101	11	Subsoil: yellow brown sandy clay with frequent limestone inclusions.	0.26 – 0.54m
1102	11	Natural: grey brown sandy clay with abundant limestone inclusions and patches of orange brown clay sand.	0.54m+
1200	12	Topsoil: dark grey brown fine-grained sandy clay with occasional small stones.	0 – 0.31m
1201	12	Subsoil: red orange fine-grained sandy clay withoccasional limestone inclusions.	0.31 – 0.6m
1202	12	Natural: crumbly limestone and sand patches.	0.6m+
1300	13	Topsoil: dark grey brown clay sand with ocasional small stones.	0 – 0.19m
1301	13	Subsoil: red brown sandy clay with occasional small stones.	0.19 – 0.29m
1302	13	Natural: light grey yellow sandy clay with frequent limestone inclusions and patches of light brown red sandy clay.	0.29m+
1303	13	Single fill of ditch [1304]. Firm orange brown clay with occasional stones. Undated. Backfill deposit.	4m+ (NE – SW) x 1.1m x 0.3m
1304	13	Cut of NE-SW aligned linear ditch. Steep sides and a flat base. Undated. Not on historic maps, but on geophysical survey. Possibly a field boundary, although may be associated with enclosure to the south.	4m+ (NE – SW) x 1.1m x 0.3m
1305	13	Cut of E-W aligned linear dtch. Steep sides and flat base. Undated. Turns to south (ditch [1310] and forms the corner of a possible enclosure. Shown on geophysical survey as the corner of an enclosure. Two postholes [1307] and [1312] possibly associated with it.	4m+ (E – W) x 1.9m x 0.71m
1306	13	Single fill of ditch [1305]. Compact brown grey silty clay with occasional small stones and charcoal flecs. Undated. Disuse fill.	4m+ (E – W) x 1.9m x 0.71m

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Context	Trench	Description	Dimensions
1307	13	Cut of posthole on southern side of ditch [1305]. Sub-circular shape, gently sloping sides, and flat base. Undated. Possibly related to posthole [1312] and the enclosure.	0.32m x 0.28m x 0.1m
1308	13	Single fill of posthole [1307]. Compact brown grey silty clay with rare small stones and charcoal flecks. Undated. Disuse fill.	0.32m x 0.28m x 0.1m
1309	13	Single fill of ditch [1310]. Compact orange brown sandy clay with moderate medium-large stones and charcoal. Undated. Disuse fll.	9.3m+ (N – S) x 1.66m x 0.69m
1310	13	Cut of N-S aligned linear ditch. Steep to moderate sides with flat base. Undated. Turns to west (ditch [1305]) and forms the corner of an enclosure shown on the geophysical survey.	9.3m+ (N – S) x 1.66m x 0.69m
1311	13	Single fill of posthole [1312]. Compact orange brown sand with rare small stones. Undated. Disuse fill.	0.3m x 0.25m x 0.1m
1312	13	Cut of posthole to north of ditch [1305]. Sub-circular shape, steep sides, and rounded base. Undated. Undated. Possibly related to posthole [1307] as on a line with it. May be associated with enlosure [1305]/ [1310].	0.3m x 0.25m x 0.1m
1400	14	Topsoil: dark brown grey compact silty clay with moderate medium – large stones.	0 – 0.33m
1401	14	Subsoil: yellow brown sandy clay with limestone inclusions.	0.33 – 0.47m
1402	14	Natural: grey brown sandy clay wth limestone inclusions and patches of orange brown clay sand.	0.47m+
1500	15	Topsoil: dark grey brown clayey sand with occasional small stones.	0 – 0.35m
1501	15	Subsoil: orange brown sandy clay with rare charcoal flecks and small stones.	0.35 – 0.86m
1502	15	Natural: orange brown silty clay with limestone inclusions and patches of red brown sandy clay and orange yellow clayey sand.	0.86m+
1600	16	Topsoil: Grey brown silty clay.	0 – 0.3m
1601	16	Subsoil: Yellow brown sandy clay.	0.3 – 0.36m
1602	16	Natural: red brown sandy clay with frequent limestone flecks.	0.36m+
1603	16	Fill of boundary ditch [1604]. Soft dark grey brown silty clay with occasional small stones. Undated. Disuse fill.	5m+ (N – S) x 0.6m x 0.08m
1604	16	Cut of boundary ditch. Linear shape, steep sides and flat base. Undated but map with modern field baoundaries detailed.	5m+ (N – S) x 0.6m x 0.08m
1700	17	Topsoil: dark grey brown clayey sand with rare charcoal flecks and small stones.	0 – 0.35m
1701	17	Natural: brown grey silty clay with patches of orange brown silty sand and red brown sandy clay. Frequent limestone inclusions.	0.35m+

Context	Trench	Description	Dimensions
1800	18	Topsoil: dark brown grey clay silt with frequent limestone inclusions.	0 – 0.32m
1801	18	Subsoil: yellow brown compact sandy clay with limestone inclusions.	0.32 – 0.57m
1802	18	Natural: grey brown sandy clay with abundant limsetone pieces and patches of orange brown sandy clay and sand pockets.	0.57m+
1900	19	Topsoil: dark brown grey clayey sand with occasional small stones and charcoal flecks.	0 – 0.22m
1901	19	Subsoil: brown orange silty sand with occasional small limestone pieces.	0.22 – 0.37m
1902	19	Natural: brown grey silty clay with frequent limestone inclusions and charcoal flecks and patches of orange brown silty sand.	0.37m+
2000	20	Topsoil: dark grey brown clayey sand with occasional small stones and charcoal flecks.	0 – 0.21m
2001	20	Subsoil: brown orange silty sand wth rare small stones.	0.21 – 0.33m
2002	20	Natural: brown grey silty clay with frequent limestone inclusions and patches of orange brown silty sand.	0.33m+
2100	21	Topsoil: grey brown friable sandy clay with limestone inclusions.	0 – 0.3m
2101	21	Subsoil: orange yellow compact sandy clay with small limestone inclusions.	0.3 – 0.5m
2102	21	Natural: compact orange yellow sandy clay with frequent limestone inclusions and occasional sand patches.	0.5m+
2200	22	Topsoil: grey brown friable sandy clay with limestone inclusions.	0 – 0.3m
2201	22	Subsoil: yellow orange sandy clay with limestone inclusions.	0.3 – 0.42m
2202	22	Natural: light grey brown sandy clay with frequent limestone inclusions and occasional sand patches.	0.42m+
2300	23	Topsoil: grey brown clayey sand with occasional small stones.	0 – 0.3m
2301	23	Subsoil: grey brown sandy clay with occasional small stones.	0.3 – 0.48m
2302	23	Natural: light grey brown sandy clay with patches of sand and frequent limestone inclusions.	0.48m+
2400	24	Topsoil: dark brown grey coarse silty sand with frequent small stones.	0 – 0.33m
2401	24	Subsoil: mid orange brown clay sand, very shallow, only occurs in patches.	0.33 – 0.35m
2402	24	Natural: orange brown compact sandy clay, with abundant small stone throughout, deep plough scars.	0.35m+

Context	Trench	Description	Dimensions
2403	24	Fill of modern boundary ditch [2404]. Coarse dark brown grey silty clay with moderate large stones and occasional charcoal. Modern finds recovered, barbed wire and animal bone.	4m+ (NE – SW) x 1.22m x 0.55m
2404	24	Cut of modern boundary ditch. Linear, steep sides, irregular base, break of slope moderate at top and moderate to gradual at base. Ditch clear on maps detailing field boundaries.	4m+ (NE – SW) x 1.22m x 0.55m
2500	25	Topsoil: brown sandy clay with occasional small stones.	0 – 0.28m
2501	25	Subsoil: yellow brown sandy clay with occasional limestone inclusions.	0.28 – 0.45m
2502	25	Natural: compact crem brown sandy clay with frequent limestone pieces and mottled sand patches.	0.45m+
2600	26	Topsoil: brown sandy silt with occassional small and medium stones.	0 – 0.35m
2601	26	Subsoil: yellow brown compact sandy clay.	0.35 – 0.55m
2602	26	Natural: compact cream yellow brown sandy clay with frequent limestone pieces and sand patches.	0.55m+
2700	27	Topsoil: grey brown silty sand with occasional small stones.	0 – 0.3m
2701	27	Subsoil: yellow brown sandy clay with limestone inclusions.	0.3 – 0.4m
2702	27	Natural: grey brown sandy clay, yellow brown sands, and frequent limestone inclusions.	0.4m+
2800	28	Topsoil: mid grey brown friable silty clay with small limestone inclusions.	0 – 0.26m
2801	28	Subsoil: mid orange brown compact sandy clay with rare small limestone inclusions.	0.26 – 0.34m
2802	28	Natural: mid orange brown compact sandy clay with frequent small to medium limestone inclusions and occasional sand patches.	0.34m+
2900	29	Topsoil: mid grey brown friable silty clay with occasional small limestone inclusions.	0 – 0.26m
2901	29	Subsoil: mid orange brown sandy clay with rare small limestone inclusions.	0.26m – 0.45m
2902	29	Natural: mid orange brown compact sandy clay with frequent small limestone inclusions, rare large stones and occasional sand patches.	0.45m+
3000	30	Topsoil: mid-dark brown sandy clay with occasional small stones.	0 – 0.3m
3001	30	Subsoil: yellow brown sandy clay with limestone inclusions.	0.3 – 0.45m
3002	30	Natural: compact cream orange brown sandy clay with frequent limestone pieces and mottled sand patches.	0.45m+
3100	31	Topsoil: grey brown sandy clay with occasional limestone inclusions.	0 – 0.28m
3101	31	Subsoil: compact orange brown sandy clay with occasional limestone inclusions.	0.28 – 0.46m
3102	31	Natural: compact cream brown sandy clay with limestone pieces and patches of yellow, cream, and brown sands.	0.46m+
3200	32	Topsoil: dark grey brown sandy clay with frequent medium to large stones.	0 – 0.25m
3201	32	Subsoil: orange brown sandy clay with occasional limestone inclusions.	0.25 – 0.45m
3202	32	Natual: grey brown clay sand with pockets of orange sand.	0.45m+
3300	33	Topsoil: grey brown friable sandy clay with occasional limestone inclusions and modern debris.	0 – 0.29m
3301	33	Subsoil: yellow orange compact sandy clay with occasional limestone inclusions.	0.29 – 0.34m
3302	33	Natural: yellow orange compact sandy clay with frequent limestone inclusions and occasional sand patches.	0.34m+
3400	34	Topsoil: grey brown friable sandy clay with occasional stones and frequent modern debris.	0 – 0.3m
3401	34	Subsoil: orange brown friable sandy clay with rare limestone inclusions.	0.3 – 0.42m
3402	34	Natural: yellow orange compact sandy clay with frequent limestone inclusions.	0.42m+
3500	35	Topsoil: dark grey brown sandy clay with frequent medium stones.	0 – 0.35m
3501	35	Subsoil: light orange brown sandy clay with occasional limestone inclusions.	0.35 – 0.43m
3502	35	Natural: light grey brown sandy clay with abundant limestone patches and pockets of clay sand.	0.43m+
3600	36	Topsoil: mid greyish brown sandy clay with frequent medium to large stones.	0 – 0.28m
3601	36	Subsoil: light orange yellow sandy clay with rare small stones.	0.28 – 0.42m
3602	36	Natural: light grey brown sandy clay with abundant limestone patches and pockets of clay sand.	0.42m+
3700	37	Topsoil: mid greyish brown sandy clay with frequent medium to large stones.	0 – 0.25m
3701	37	Subsoil: mid orange yellow clay sand with moderate small stones.	0.25 – 0.35m
3702	37	Natural: light yellow brown sandy clay with frequent pockets of sand.	0.35m+
3800	38	Topsoil: dark grey brown sandy clay with occasional limestone fragments and stones.	0 – 0.2m
3801	38	Subsoil: orange brown friable sandy clay with rare limestone inclusions.	0.2 – 0.35m

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Context	Trench	Description	Dimensions
3802	38	Natural: mid brown sandy clay with moderate to frequent limestone inclusions.	0.35m+
3900	39	Topsoil: mid greyish brown sandy clay with frequent medium to large stones.	0 – 0.26m
3901	39	Subsoil: mid orange yellow sandy clay with moderate small limestone inclusions.	0.26 – 0.3m
3902	39	Natural: mid brown grey sandy clay with pockets of sand	0.3m+
4000	40	Topsoil: mid grey brown sandy clay with frequent medium to large stones.	0 – 0.3m
4001	40	Subsoil: mid orange yellow sandy clay with moderate small limestone inclusions.	0.3 – 0.42m
4002	40	Natural: mid brown grey sandy clay with pockets of sand.	0.42m+
4100	41	Topsoil: mid grey brown sandy clay with frequent medium to large stones.	0 – 0.18m
4101	41	Subsoil: mid orange yellow clay sand with moderate small stones.	0.18 – 0.3m
4102	41	Natural: mid yellow brown sandy clay with frequent pockets of coarse mid to dark yellow sand	0.3m+
4200	42	Topsoil: mid grey brown sandy clay with rare stone inclusions.	0 – 0.3m
4201	42	Subsoil: mid yellow/orange brwn sandy clay with rare stone inclusions and some limestone flecks.	0.3 – 0.4m
4202	42	Natural: mottled sandy clay with limestone flecks.	0.4m+
4300	43	Topsoil: mid grey brown friable sandy clay with occasional small limestone inclusions, rare brick fragments.	0 – 0.3m
4301	43	Subsoil: mid orange brown compact sandy clay with rare small limestone inclusions.	0.3 – 0.44m
4302	43	Natural: mid orange brown compact sandy clay with frequent small to medium limestone inclusions and occasional patches of sand.	0.44m+
4400	44	Topsoil: grey brown sandy clay.	0 – 0.25m
4401	44	Subsoil: yellow brown sandy clay.	0.25 – 0.35m
4402	44	Natural: light yellow brown sandy clay with frequent limestone flecks.	0.35m+
4500	45	Topsoil: mid greyish brown compact sandy clay with moderate medium to large stones.	0 – 0.2m
4501	45	Subsoil: mid orange yellow compact clay sand with moderate small to medium stones	0.2 – 0.29m
4502	45	Natural: light yellow brown sandy clay with frequent pockets of coarse orange yellow sand with moderate stone.	0.29m+
4600	46	Topsoil: grey brown sandy clay.	0 – 0.25m
4601	46	Subsoil: mid yellow brown sandy clay.	0.25 – 0.33m
4602	46	Natural: light yellow brown sandy clay with frequent limestone flecks.	0.33m+
4700	47	Topsoil: mid grey brown friable sandy clay with occasional small tovery small limestone inclusions and rare fragments of brick.	0 – 0.28m
4701	47	Subsoil: mid orange brown sandy clay with rare small limestone inclusions.	0.28 – 0.45m
4702	47	Natural: mid orange brown compact sandy clay with frequent small to medium limestone inclusions, rare charcoal flecks and occasional sand patches.	0.45m+
4800	48	Topsoil: mid grey brown compact sandy clay with frequent medium to large stones.	0 – 0.24m
4801	48	Subsoil: mid orange yellow compact clay sand with moderate small to medium stones.	0.24 – 0.3m
4802	48	Natural: light yellow brown comapct sandy clay with frequent pockets of orange yellow coarse sand and moderate medium stones.	0.3m+
4900	49	Topsoil: mid brown grey compact sandy clay with medium to large stones.	0 – 0.22m
4901	49	Subsoil: mid orange yellow compact clay sand with moderate small to medium stones.	0.22 – 0.35m
4902	49	Natural: light yellow brown compact sandy clay with frequent pockets of coarse orange yellow sand.	0.35m+
5000	50	Topsoil: dark grey brown compact sandy clay with frequent medium to large stones.	0 – 0.26m
5001	50	Subsoil: mid orange yellow clay sand with small to medium stones.	0.26 – 0.37m
5002	50	Natural: mid yellow brown sandy clay with frequent patches of coarse sand and frequent stones.	0.37m+

Appendix 1.3 Photographic register

Photo	B/W	Digital	Direction facing	Description
001	1/2	–	–	ID shot film 2
002	2/2	0001	S	Trench 2
003	3/2	0002	N	Trench 2
004	4/2	0003	W	E facing section of ditch [0203]
005	–	0004	S	Ditch [0203]
006	–	0005	S	Ditch [0203]
007	5/2	0006	E	W facing section of ditch [0203]
008	6/2	0007	S	Ditch [0203]
009	7/2	0008	NNE	Trench 4
010	8/2	0009	SSW	Trench 4
011	9/2	0010	SE	Trench 7

Photo	B/W	Digital	Direction facing	Description
012	10/2	0011	NW	Trench 7
013	–	0012	SW	General shot of northern part of site
014	–	0013	NW	General shot of northern part of site
015	11/2	0014	S	Trench 17
016	12/2	0015	N	Trench 17
017	13/2	0016	NW	Ditch [0604]
018	14/2	0017	NE	SW facing section of ditch [0604]
019	15/2	0018	SW	NE facing section of ditch [0604]
020	16/2	0019	S	Trench 13
021	17/2	0020	N	Trench 13
022	18/2	0021	SE	NW facing section of ditch [0607]
023	–	0022	SE	NW facing section of ditch [0607]
024	–	0023	SE	NW facing section of ditch [0607]
025	19/2	0024	SSW	Trench 15
026	20/2	0025	NNE	Trench 15
027	21/2	0026	NW	Trench 23
028	22/2	0027	SE	Trench 23
029	23/2	0028	S	Trench 27
030	24/2	0029	N	Trench 27
031	25/2	0030	SW	NW facing section of ditch [1304]
032	26/2	0031	NW	SE facing section of ditch [1304]
033	27/2	0032	NW	Ditch [1304]
034	28/2	0033	SE	Trench 31
035	29/2	0034	NW	Trench 31
036	30/2	0035	S	Trench 26
037	31/2	0036	N	Trench 26
038	–	0037	SW	Backfilled Trench 2
039	–	0038	SW	Backfilled Trench 4
040	32/2	0039	SE	Trench 25
041	33/2	0040	NW	Trench 25
042	34/2	0041	WSW	ENE facing section of ditch [1305]
043	35/2	0042	ENE	WSW facing section of ditch [1305]
044	36/2	0043	E	Trench 30
045	–	0044	W	Trench 30
046	1/3	–	–	ID shot film 3
047	2/3	0045	SE	Trench 19
048	3/3	0046	NW	Trench 19
049	4/3	0047	SW	NE facing section of ditch [1310]
050	–	0048	NW	Ditch [1310]
051	5/3	0049	NE	SW facing section of posthole [1307]
052	6/3	0050	PLAN	Shot of posthole [1307]
053	7/3	0051	N	Trench 20
054	8/3	0052	S	Trench 20
055	9/3	0053	S	Trench 21
056	10/3	0054	N	Trench 21
057	–	0055	SW	Section shot of natural feature in Trench 13 – NE facing
058	–	0056	NW	Section shot of natural feature in Trench 13 – NE facing
059	11/3	0057	NE	Post-ex shot of ditch slots [1305] and [1310]
060	12/3	0058	SE	Post-ex shot of ditch slots [1305] and [1310]
061	13/3	0059	SW	Post-ex shot of ditch slots [1305] and [1310]
062	14/3	0060	NW	Post-ex shot of ditch slots [1305] and [1310]
063	–	0061	NW	Post-ex shot of ditch slots [1305] and [1310]
064	15/3	0062	N	Post-ex shot of ditch slots [1305] and [1310]
065	16/3	0063	NNE	Post-ex shot of ditch slots [1305] and [1310]
066	–	0064	NNE	Post-ex shot of ditch slots [1305] and [1310]
067	17/3	0065	S	North facing section of posthole [1312]
068	18/3	0066	SE	Posthole [1312] in relation to ditch [1305]
069	19/3	0067	W	Representative section of stratigraphy in Trench 13
070	20/3	0068	NE	Representative section of stratigraphy in Trench 6
071	21/3	0069	SE	Trench 33
072	22/3	0070	NW	Trench 33
073	23/3	0071	E	West facing section of Trench 10
074	24/3	0072	NE	SW facing section of Trench 33
075	25/3	0073	SE	Genenral shot of Trench 40
076	26/3	0074	NW	Genenral shot of Trench 40
077	27/3	0075	––	Trench 42
078	28/3	0076	––	Trench 42
079	29/3	0077	––	Trench 41
080	30/3	0078	––	Trench 41

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Photo	B/W	Digital	Direction facing	Description
081	31/3	0079	SE	Trench 44
082	32/3	0080	NW	Trench 44
083	33/3	0081	––	Trench 37
084	34/3	0082	––	Trench 37
085	35/3	0083	SW	Trench 43
086	36/3	0084	NE	Trench 43
087	37/3	0085	NE	Trench 46
–	–	–	–	–
–	–	–	–	–
300	36/1	–	–	ID shot film 1
301	35/1	2300	W	Trench 1
302	34/1	2301	E	Trench 1
303	33/1	2302	N	Trench 3
304	32/1	2303	S	Trench 3
305	31/1	2304	NW	Trench 6
306	30/1	2305	SE	Trench 6
307	29/1	2306	NE	Trench 12
308	28/1	2307	SW	Trench 12
309	27/1	2308	SW	Trench 9
310	26/1	2309	NE	Tench 9
311	–	2310	SW	Modern linear in Trench 5
312	–	2311	SW	Modern linear in Trench 5
313	25/1	2312	NE	Trench 5
314	24/1	2313	SW	Trench 5
315	23/1	2314	NW	Trench 8
316	22/1	2315	SE	Trench 8
317	21/1	2316	N	Trench 11
318	20/1	2317	S	Trench 11
319	19/1	2318	E	Trench 18
320	18/1	2319	W	Trench 18
321	17/1	2320	SE	Trench 14
322	16/1	2321	NW	Trench 14
323	15/1	2322	NW	Trench 22
324	14/1	2323	SE	Trench 22
325	13/1	2324	S	Trench 10
326	12/1	2325	N	Trench 10
327	11/1	2326	NW	Trench 32
328	10/1	2327	SE	Trench 32

Photo	B/W	Digital	Direction facing	Description
329	9/1	2328	SW	Trench 34
330	8/1	2329	NE	Trench 34
331	7/1	2330	N	Trench 35
332	6/1	2331	S	Trench 35
333	5/1	2332	NE	Trench 36
334	4/1	2333	SW	Trench 36
335	3/1	–	SW	Trench 38
336	–	2334	–	VOID
337	–	2335	SW	Trench 38
338	2/1	2336	NE	Trench 38
339	1/1	2337	NW	Trench 39
340	36/4	–	–	ID SHOT FILM 4
341	35/4	2338	SW	Trench 46
342	34/4	2339	SW	Trench 46
343	–	2340	N	Trench 43
344	33/4	2341	SE	Trench 47
345	32/4	2342	NW	Trench 47
346	31/4	2343	SE	Trench 50
347	30/4	2344	NW	Trench 50
348	29/4	2345	NW	North west representative shot of Trench 49
349	28/4	2346	SE	Trench 49
350	27/4	2347	NW	Trench 49
351	26/4	2348	NW	North west section of Trench 48
352	–	2349	SW	Detail shot of services in Trench 48
353	–	2350	SW	General shot of services in Trench 48
354	25/4	2351	SW	Trench 48
355	24/4	2352	NE	Trench 48
356	23/4	2353	SE	Trench 45
357	22/4	2354	NW	Trench 45
358	21/4	2355	NW	SE facing shot of field boundary [1604] section
359	20/4	2356	SE	SE facing shot of field boundary [1604] plan
360	19/4	2357	SE	NW facing shot of field boundary [1604] section
361	18/4	2358	SE	Trench 16
362	17/4	2359	NW	Trench 16
363	16/4	2360	SSW	Trench 29
364	15/4	2361	NNE	Trench 29

Photo	B/W	Digital	Direction facing	Description
365	14/4	2362	NNE	Trench 28
366	13/4	2363	SSW	Trench 28
367	12/4	2364	E	West facing section of boundary ditch [2404]
368	11/4	2365	SE	Trench 24
369	10/4	2366	NW	Trench 24

Appendix 1.4 Drawing register

Drawing	Scale	Description
1	1:20	Plan of ditch [0607]
2	1:10	SW facing section of ditch [0607]

Appendix 1.5 Sample register

Sample	Context	Volume	Description
1	0605	40L	Secondary fill of ditch [0607]
2	1306	40L	Fill of ditch [1305]
3	0606	40L	Fill of ditch [0607]
4	1309	40L	Fill of ditch [1310]

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APPENDIX 2 FINDS CATALOGUE

Trench	Context	Context notes	Qty	Weight (g)	Material	Object	Description	Spot Date
01	0100	Topsoil	1	1	Clay Pipe	Stem	narrow bore	18th – e.20th
01	0100	Topsoil	2	11	Glass	Bottle	green and colourless sherds	19th – present
01	0100	Topsoil	1	946	Iron	Horseshoe	large heavy shoe, calkinned heels, poss remains of toe clip, no fuller groove	M19th – 20th
01	0100	Topsoil	7	21	Pottery (Mod)	MOD	blue trans printed, brown trans printed, slip lined redware, rockingham, whiteware	19th – present
01	0100	Topsoil	1	11	Stone	Polished Slate	small edge sherd	Mod
01	0101	Subsoil	1	21	Pottery (Mod)	MOD	blackware	17th – 19th
02	0200	Topsoil	1	14	Iron	Nail	bent from extraction	–
02	0200	Topsoil	1	3	Lithics	Tool	overshot hard hammer blade, retouched, patinated	Meso – BA
03	0300	Topsoil	5	79	CBM	Pipe	earthenware drain pipe sherds	Mod
03	0300	Topsoil	1	2	Clay Pipe	Stem	narrow bore	18th – e.20th
03	0300	Topsoil	1	33	Iron	Pipe	curving sherd	Mod
03	0300	Topsoil	7	42	Pottery (Mod)	MOD	stoneware, brownware, whiteware, red trans printed, slip lined etc	19th – e.20th
03	0301	Subsoil	1	19	Iron	Pipe	curving sherd	Mod
05	0500	Topsoil	1	31	CBM	RoofTile	pan tile	PM – Mod
05	0500	Topsoil	1	3	Clay Pipe	Bowl	small bowl sherd part of moulded possible rib or claw	19th – e.20th
05	0500	Topsoil	1	24	Glass	Bottle	colourless base	19th – present
05	0500	Topsoil	1	32	Iron	Nail	small square head, thick shaft	Mod
05	0500	Topsoil	13	43	Pottery (Mod)	MOD	whiteware, porcelain, red banded, stoneware	19th – e.20th
05	0500	Topsoil	1	2	Pottery (Mod)	MOD	body sherd; fine poorly mixed mica rich fabric; traces of darker contact surface; slipware or glazed?	PM/Mod
06	0600	Topsoil	1	6	CBM	Tile?	small sherd	–
06	0600	Topsoil	1	1	Clay Pipe	Stem	narrow bore	18th – e.20th
06	0600	Topsoil	1	2	Glass	Bottle	colourless ribbed sherd	19th – present
06	0600	Topsoil	1	1	Glass	Bottle	natural fragment	19th – present
06	0600	Topsoil	12	31	Pottery (Mod)	MOD	whiteware, willow, green trans printed, slip-lined redware	19th – e.20th
06	0601	Subsoil	2	36	Glass	Bottle	natural, thick egg shaped?, moulded letters	19th – 20th
06	0601	Subsoil	1	2	Pottery (Mod)	MOD	porcelain, plain	19th – present
09	0900	Topsoil	8	23	Pottery (Mod)	MOD	whiteware, stoneware, willow, engine-turned banded	19th
10	1000	Topsoil	1	1	Clay Pipe	Stem	narrow bore	18th – e.20th
10	1000	Topsoil	2	3	Glass	Window	small colourless sherds, one frosted	19th – present
10	1000	Topsoil	4	30	Glass	Bottle	colourless square bottle sherd, green sherds	L.19th – present

Trench	Context	Context notes	Qty	Weight (g)	Material	Object	Description	Spot Date
10	1000	Topsoil	12	38	Pottery (Mod)	MOD	whiteware, engine turned stoneware, spongeware, blue trans printed, black trans printed, tin-glazed earthenware	19th
11	1100	Topsoil	1	1	Clay Pipe	Stem	narrow bore	18th – e.20th
11	1100	Topsoil	1	2	Glass	Window	colourless sherd	19th – present
11	1100	Topsoil	1	5	Glass	Bottle	natural sherd	19th – present
11	1100	Topsoil	1	169	Iron	Pipe	large curving sherd	–
11	1100	Topsoil	1	502	Iron	Object	bolt with two pierced ends, thick wire through one end, washer near one end	–
11	1100	Topsoil	6	33	Pottery (Mod)	MOD	whiteware, blue trans printed, porcelain, slip-lined redware	19th
12	1200	Topsoil	2	21	Ceramic	Kiln Prop	part of cock's spur and hand rolled sherd	L18th – e.20th
12	1200	Topsoil	1	13	Glass	Bottle	natural thick sherd	19th – present
12	1200	Topsoil	1	1	Glass	Window	natural sherd	19th – present
12	1200	Topsoil	1	253	Iron	Nail	very large (10") nail	Mod
12	1200	Topsoil	1	204	Iron	Chunk	large triangular piece	Mod
12	1200	Topsoil	22	65	Pottery (Mod)	MOD	whiteware, spongeware, blue shell-edged, blackware	19th – e.20th
13	1300	Topsoil	1	3	Clay Pipe	Stem	wide bore	17th – 18th
13	1300	Topsoil	2	20	Glass	Bottle	green and colourless sherds	19th – present
13	1300	Topsoil	3	28	Pottery (Mod)	MOD	brownware, blue trans printed, sprigged whiteware	19th – e.20th
13	1300	Topsoil	1	16	Pottery (Rom)	GREY	Rim; Form BHNK; Bowl with no neck Buckland et al 1980, Fig 4. 29; South Yorkshire product. Rim diam 22; Rim EVE 7	3rd AD
13	1306	Ditch 1305	1	2	Lithics	Flake & Chip	short wide hard hammer flake and chip	PH
13	1309	Ditch 1310	1	1	Pottery (Rom)	GREY?	Body sherd; tiny scrap; Roman?	Rom?
18	1800	Topsoil	1	17	CBM	Brick	fragment	PM – Mod
18	1800	Topsoil	1	8	Glass	Window	thick natural coloured	19th – present
18	1800	Topsoil	9	98	Pottery (Mod)	MOD	whiteware, willow, blue trans printed, stoneware, brownware	19th – e.20th
19	1900	Topsoil	1	16	Pottery (Mod)	MOD	stoneware	19th – present
21	2100	Topsoil	1	83	CBM	Brick	small sherd	PM – Mod
21	2100	Topsoil	1	1	Clay Pipe	Stem	narrow bore, glazed mouthpiece	18th – e.20th
21	2100	Topsoil	1	126	Iron	Bolt	thick bolt with square nut on end	Mod
21	2100	Topsoil	10	81	Pottery (Mod)	MOD	porcelain, whiteware, blue trans printed	19th – present
23	2300	Topsoil	1	25	CBM	Pipe	stoneware drain pipe sherd	Mod
23	2300	Topsoil	2	4	Clay Pipe	Stems	narrow bore	18th – e.20th
23	2300	Topsoil	1	2	Glass	Bottle	blue sherd	19th – present
23	2300	Topsoil	5	16	Pottery (Mod)	MOD	whiteware, green trans printed, blue banded	19th – present
24	2403	Mod ditch 2404	1	8	Ceramic	Kiln Prop	cocks spur type, whiteware	L18th – e.20th
24	2403	Mod ditch 2404	1	8	Copper Alloy	Strip	narrow thick strip, perforated at one end	Mod?

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Trench	Context	Context notes	Qty	Weight (g)	Material	Object	Description	Spot Date
24	2403	Mod ditch 2404	1	14	Iron	Plate	sherd with broken edges	–
24	2403	Mod ditch 2404	41	254	Iron	Wire	fragmented pieces of thick wire	Mod
24	2403	Mod ditch 2404	2	38	Pottery (Mod)	MOD	slip lined redware	L18th – 19th
26	2600	Topsoil	3	92	CBM	Chimney	red earthenware chimney sherd	19th – present
26	2600	Topsoil	6	19	Pottery (Mod)	MOD	blue banded, blue trans printed, slip lined redware	19th – present
30	3000	Topsoil	1	3	Clay Pipe	Stem	narrow bore	18th – e.20th
30	3000	Topsoil	1	11	Glass	Bottle	white opaque jar sherd	19th – present
30	3000	Topsoil	2	4	Pottery (Mod)	MOD	blue trans printed, whiteware	19th – present
33	3300	Topsoil	8	26	Pottery (Mod)	MOD	whiteware, blackware, porcelain, blue trans printed, red earthenware	19th – present
34	3400	Topsoil	1	13	Copper Alloy	Spoon?	handle and fragment of bowl	PM – Mod
34	3400	Topsoil	2	31	Glass	Bottle	natural and green sherds	19th – present
34	3400	Topsoil	1	28	Iron	Shaft	with nut in place?	–
34	3400	Topsoil	1	155	Iron	Horseshoe	one web of shoe, thick, no features visible	19th – present
34	3400	Topsoil	1	56	Iron	Chunk	rectangular	Mod
34	3400	Topsoil	1	83	Iron	Chunk	square	Mod
34	3400	Topsoil	22	91	Pottery (Mod)	MOD	stoneware, blackware, blue trans printed, blue banded, creamware	19th – present
34	3400	Topsoil	1	4	Stone	Button	Two-holed, plano-convex	Mod?
43	4300	Topsoil	1	6	Glass	Bottle	green rim sherd	19th – present
43	4300	Topsoil	1	41	Iron	Spike	square section shaft, narrowing at one end	Mod
43	4300	Topsoil	4	12	Pottery (Mod)	MOD	blue trans printed, blue banded	L18th – present

APPENDIX 3 ENVIRONMENTAL TABLES

Appendix 3.1 Retent sample results

Context	Sample	Feature	Sample Vol (l)	Lithics	Burnt bone	Unburnt bone	Shell	Charcoal		Material available for AMS dating	Comments
					Mammal	Mammal	Terrestrial	Qty	Max size (mm)		
0605	1	ditch fill	40	+	–	–	+++	+	8	No	–
1306	2	ditch fill	40	–	–	+	–	+	5	No	Small indeterminate animal bone fragments <5mm
0606	3	ditch fill	40		–	+	+++	+		No	Small indeterminate animal bone fragments <5mm. Charcoal not retained
1309	4	ditch fill	40	–	+	–	–	–	–	No	–

Key: + = rare (0-5), ++ = occasional (6-15), +++ = common (15-50) and ++++ = abundant (>50)

NB charcoal over 1cm is suitable for identification and AMS dating

Appendix 3.2 Flotation sample results

Context	Sample	Feature	Total flot Vol (ml)	Other charred plant remains	Charcoal		Material available for AMS dating	Comments
					Qty	Max size (mm)		
0605	1	ditch fill	100	Chenopodium sp.	+	1	No	–
1306	2	ditch fill	10	–	+	1	No	–
0606	3	ditch fill	40	–	+	1	No	Modern roots and frequent snail shells
1309	4	ditch fill	50	Chenopodium sp.	+	10	Yes	Charcoal non-oak

Key: + = rare (1-5), ++ = occasional (6-15), +++ = common (16-50) and ++++ = abundant (>50)

NB charcoal over 1cm is suitable for identification and AMS dating

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APPENDIX 4 OASIS DATA COLLECTION FORM: ENGLAND

OASIS ID: headland5-223386

PROJECT DETAILS	
Project name	Trinity Farm, Knottingley, West Yorkshire
Short description of the project	Headland Archaeology (UK) Ltd conducted a trial trench archaeological evaluation on land at Trinity Farm, Knottingley, West Yorkshire, in response to a condition placed on planning permission for the construction of a distribution warehouse and employment development (Planning Ref: 15/00627/HYB). Trial trenching revealed no archaeological remains across the majority of the site. One undated endosure was identified, alongside an undated trackway and field boundary. These may relate to Iron Age I Romano-British agricultural activity. Two post-medieval field boundaries were also identified. The results from the trial trenching evaluation supported those from the geophysical survey. This report is an interim report (before the full analysis of finds and samples has been carried out), to enable WYAAS to make decisions concerning the size of the mitigation area required around the endosure in the northeastern part of the site.
Project dates	Start: 29-06-2015 End: 17-07-2015
Previous/future work	Yes / Yes
Any associated project reference codes	TFWY15 (Site code)
Type of project	Field evaluation
Site status	None
Current Land use	Cultivated Land 3 - Operations to a depth more than 0.25m
Monument type	NONE None
Monument type	NONE None
Significant Finds	NONE None
Significant Finds	NONE None
Methods & Techniques	Targeted Trenches
Development type	Extensive green field commercial development (e.g. shopping centre, business park, science park, etc.)
Prompt	National Planning Policy Framework - NPPF
Position in the planning process	After outline determination (eg. As a reserved matter)

PROJECT LOCATION	
Country	England
Site location	WEST YORKSHI RE WAKEFIELD KNOTTINGLEY Trinity Fann, Knottingley
Post code	WF11 OJG
Study area	23 Hectares
Site coordinates	SE 4803 1170 53.599426157805 -1.2741458099995 53 35 57 N 001 16 26 W Point
Height OD / Depth	Min:35m Max: 45m

PROJECT CREATORS	
Name of organisation	Headland Archaeology
Project brief originator	Local Authority Archaeologist and/or Planning Authority/advisory body
Project design originator	Headland Archaeology
Project director/manager	Alistair Webb
Project supervisor	Emma Jeffery
Type of sponsoring/funding body	Developer

PROJECT CREATORS	
Name of sponsor/funding body	Caddick Developments

PROJECT ARCHIVES	
Physical Archive recipient	Wakefield Museum
Physical Contents	Ceramics
Digital Archive Exists?	No
Paper Archive recipient	Wakefield Museum
Paper Contents	none
Paper Media available	Context sheet, Drawing, Report

PROJECT BIBLIOGRAPHY 1	
Publication type	Grey literature (unpublished document/manuscript)
Title	Trinity Farm, Knottingley, West Yorkshire
Author(s)/Editor(s)	Jeffery, E
Other bibliographic details	TFWY/01
Date	2015
Issuer or publisher	Headland Archaeology
Place of issue or publication	Edinburgh
Description	Grey literature A4 report with figures and plates

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