

VLWS20



# LAND WEST OF VICARAGE LANE, WHERSTEAD, SUFFOLK

## GEOPHYSICAL SURVEY REPORT

commissioned by ACD Environmental

March 2020



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#### PROJECT INFO:

HA Project Code **VLWS20** / HAS No. **WHR 135** / NGR **TM 1550 4050** / Parish  
**Wherstead** / Local Authority **Suffolk** / OASIS Ref. **headland5-384377**

#### PROJECT TEAM:

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part of the **RSK** Group





## PROJECT SUMMARY

Headland Archaeology (UK) Ltd undertook a geophysical (magnetometer) survey covering 5 hectares on land west of Vicarage Lane, Wherstead, where a commercial development is proposed. The survey has not identified any anomalies of definite archaeological potential. Six anomalies (two ditches and four pits) are interpreted as of possible archaeological potential although this interpretation is tentative. Overall the site is assessed to be of low archaeological potential on the basis of the geophysical survey.

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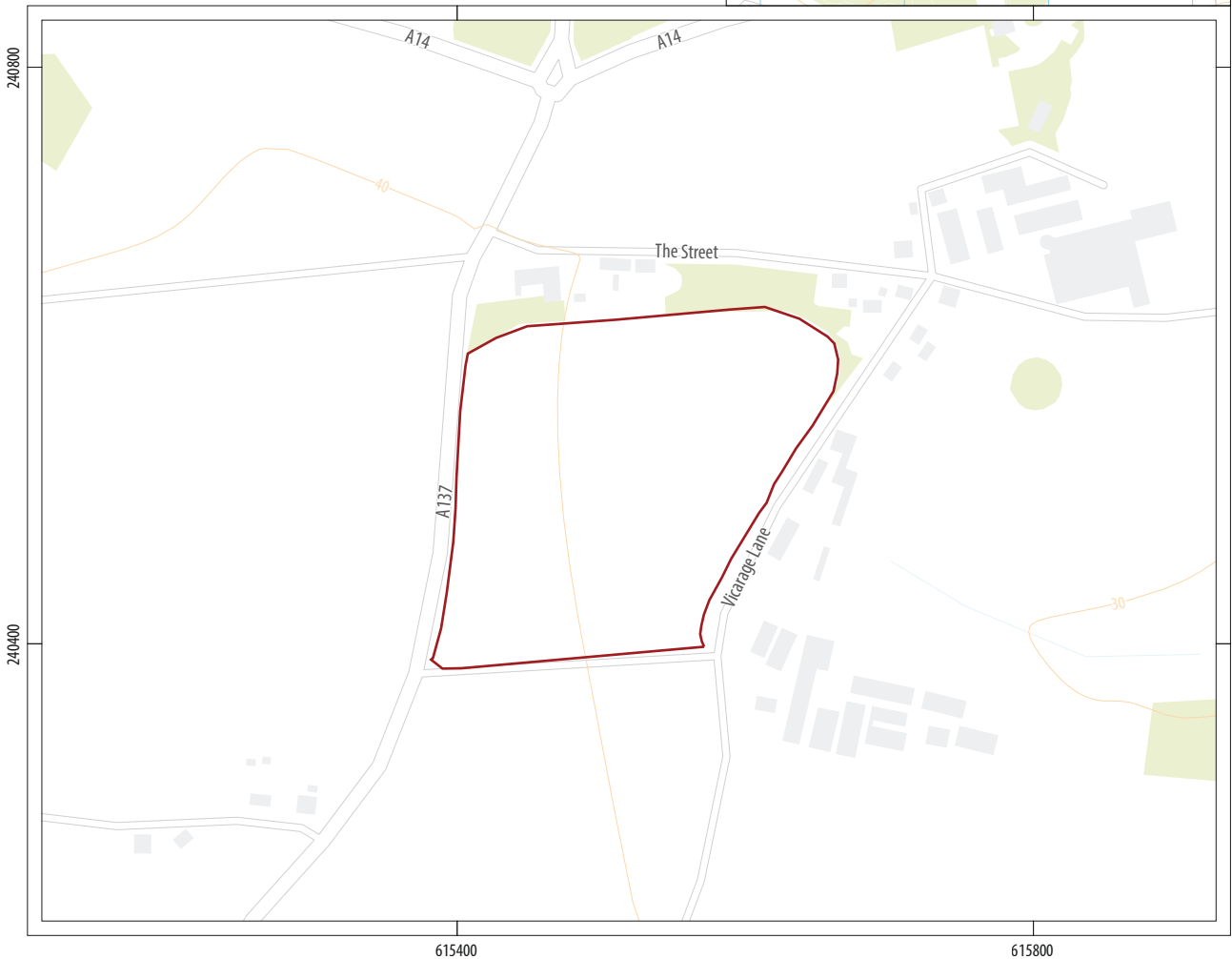
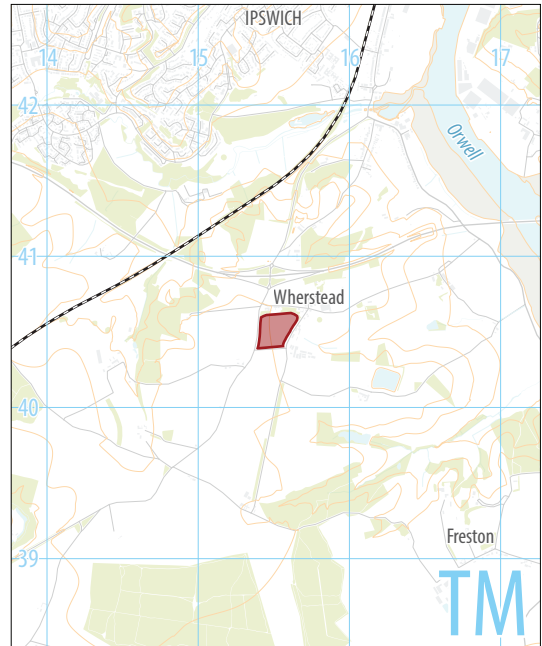
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Land west of Vicarage Lane  
Wherstead  
Suffolk



0 200km  
1:12,500,000 @ A4



0 100m  
1:5,000 @ A4

 geophysical survey area



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# LAND WEST OF VICARAGE LANE, WHERSTEAD, SUFFOLK

## GEOPHYSICAL SURVEY REPORT

### 1 INTRODUCTION

Headland Archaeology (UK) Ltd was commissioned by ACD Environmental (the Client) to undertake a geophysical survey on land west of Vicarage Lane, Wherstead. The results of the survey will be submitted in support of a planning application for a commercial development and may inform future archaeological strategy at the site.

The survey was undertaken in order to assess the impact of the proposed development on the historic environment and was undertaken in accordance with an Archaeological Written Scheme of Investigation (WSI) (Harrison 2020), with guidance within the National Planning Policy Framework (MHCLG 2019) and in line with current best practice (Chartered Institute for Archaeologists 2014, Europae Archaeologia Consilium 2016).

#### 1.1 SITE LOCATION, TOPOGRAPHY AND LAND-USE

The Proposed Development Area (PDA) is located south-west of Wherstead, centred on TM 1550 4050 (see Illus 1). It comprises a single irregularly shaped field which is bound to the east by Vicarage Lane, A137 to the west, an arable field to the south and tree belt adjacent to The Street to the north.

The topography of the PDA is flat at approximately 40m Above Ordnance Datum (AOD) and was used for turf production at the time of the survey (Illus 2).

The survey was carried out on the 23rd January 2020.

#### 1.2 GEOLOGY AND SOILS

The bedrock geology comprises Crag Formation (Sand) which is overlain by superficial deposits of Lowestoft Formation (diamicton) (NERC 2020).

The soils are classified in the Soilscape 8 Association, characterised as loams and clays with impeded drainage. (Cranfield University 2020).

### 2 ARCHAEOLOGICAL BACKGROUND

An Archaeological and Heritage Assessment (Tidal Hill Ltd 2019) established that the area surrounding the PDA is rich in archaeological remains with a range of prehistoric finds and monuments known in the vicinity as well as evidence for Roman settlement. An Iron Age trackway has been identified south of the site as have cropmarks which may reflect further significant remains.

Recent trial trenching east of Vicarage Road at Park Farm, 300m south-east of the PDA (Mlynarska 2019), did not identify any significant archaeological remains. The only features identified were three late post-medieval ditches and two undated ditches which were interpreted as probable former field or paddock boundaries although they are not recorded on historic mapping.

### 3 AIMS, METHODOLOGY AND PRESENTATION

The general aim of the geophysical survey was to provide enough information to establish the presence/absence, character and extent of any archaeological remains within the PDA. This will therefore



**ILLUS 2** PDA, looking north

enable an assessment to be made of the impact of the proposed development on any sub-surface archaeological remains, if present.

The specific archaeological objectives of the geophysical survey were:

- › to provide information about the nature and possible interpretation of any magnetic anomalies identified;
- › to therefore determine the likely presence/absence and extent of any buried archaeological features; and
- › to produce a comprehensive site archive and report.

### 3.1 MAGNETOMETER SURVEY

Magnetic survey methods rely on the ability of a variety of instruments to measure very small magnetic fields associated with buried archaeological remains. A feature such as a ditch, pit or kiln can act like a small magnet, or series of magnets, that produce distortions (anomalies) in the earth's magnetic field. In mapping these slight variations, detailed plans of sites can be obtained as buried features often produce reasonably characteristic anomaly shapes and strengths (Gaffney & Gater 2003). Further information on soil magnetism and the interpretation of magnetic anomalies is provided in Appendix 1.

The survey was undertaken using four Bartington Grad601 sensors mounted at 1m intervals (1m traverse interval) onto a rigid carrying frame. The system was programmed to take readings at a frequency of 10Hz (allowing for a 10–15cm sample interval) on roaming traverses (swaths) 4m apart. These readings were stored on an external weatherproof laptop and later downloaded for processing

and interpretation. The system was linked to a Trimble R8s Real Time Kinetic (RTK) differential Global Positioning System (dGPS) outputting in NMEA mode to ensure a high positional accuracy for each data point.

MLGrad601 and MultiGrad601 (Geomar Software Inc) software was used to collect and export the data. Terrasurveyor V3.0.35.1 (DWConsulting) software was used to process and present the data.

### 3.2 REPORTING

A general site location plan is shown in Illus 1 at a scale of 1:5,000. Illus 2 is a site condition photograph. Illus 3 is a 1:3,000 survey location plan showing the direction of survey as GPS swaths. Large scale (1:2,000) fully and minimally processed (greyscale) data, minimally processed (XY trace plot) data and an accompanying interpretation plot are presented in Illus 4 to Illus 7 inclusive.

Technical information on the equipment used, data processing and magnetic survey methodology is given in Appendix 1. Appendix 2 details the survey location information and Appendix 3 describes the composition and location of the site archive. Data processing details are presented in Appendix 4. A copy of the OASIS entry (Online Access to the Index of Archaeological Investigations) is reproduced in Appendix 5.

The survey methodology, report and any recommendations comply with the Written Scheme of Investigation (Harrison 2020), guidelines outlined by Europae Archaeologia Consilium (EAC 2016) and by the Chartered Institute for Archaeologists (CIfA 2014). All illustrations from Ordnance Survey (OS) mapping are reproduced with the permission of the controller of Her Majesty's Stationery Office (© Crown copyright).

The illustrations in this report have been produced following analysis of the data in 'raw' and processed formats and over a range of different display levels. All illustrations are presented to most suitably display and interpret the data from this site based on the experience and knowledge of management and reporting staff.

## 4 RESULTS AND DISCUSSION

Ground conditions were good throughout the PDA and have contributed to a high standard of data throughout. The survey has detected a very varied magnetic background characterised by numerous discrete geological anomalies caused by localised variations in the depth and composition of the topsoil and the superficial deposits from which they derive. A number of anomalies have been identified against this background and cross-referenced to specific examples on the interpretation figure (Illus 7), where appropriate.

### 4.1 FERROUS ANOMALIES

Ferrous anomalies, characterised as individual 'spikes', are typically caused by ferrous (magnetic) material, either on the ground surface or in the plough-soil. Little importance is normally given to such anomalies, unless there is any supporting evidence for an archaeological interpretation, as modern ferrous debris is common on most sites, often being present as a result of manuring or tipping/infilling. There is no obvious clustering to these ferrous anomalies which might indicate an archaeological origin. Far more probable is that the 'spike' responses are caused by the random distribution of ferrous debris in the upper soil horizons.

Magnetic disturbance along the field edges is due to the presence of ferrous material within and adjacent to the field boundaries and is of no archaeological interest.

### 4.2 GEOLOGICAL ANOMALIES

The survey has detected numerous discrete geological anomalies which are thought to be caused by variation in the depth and composition of the topsoil and the superficial deposits from which they derive.

### 4.3 POSSIBLE ARCHAEOLOGICAL ANOMALIES

On the eastern edge of the PDA the survey has detected six anomalies (Illus 7) which cannot be confidently interpreted as either geological or agricultural and which are therefore interpreted as of possible archaeological origin. However, this interpretation is tentative.

Two linear anomalies (D1 and D2), perpendicular to each other, have been interpreted as possible ditches of unknown date. Their alignment does not match that of the existing field boundaries nor the alignment of any other modern or agricultural anomalies.




To the east and south-west of D1 and D2 the survey has detected four discrete anomalies (P1, P2, P3 and P4) which have different magnetic signal to the ubiquitous geological anomalies. These anomalies are also interpreted as of possible archaeological origin although again the interpretation is tentative.

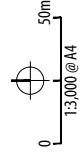
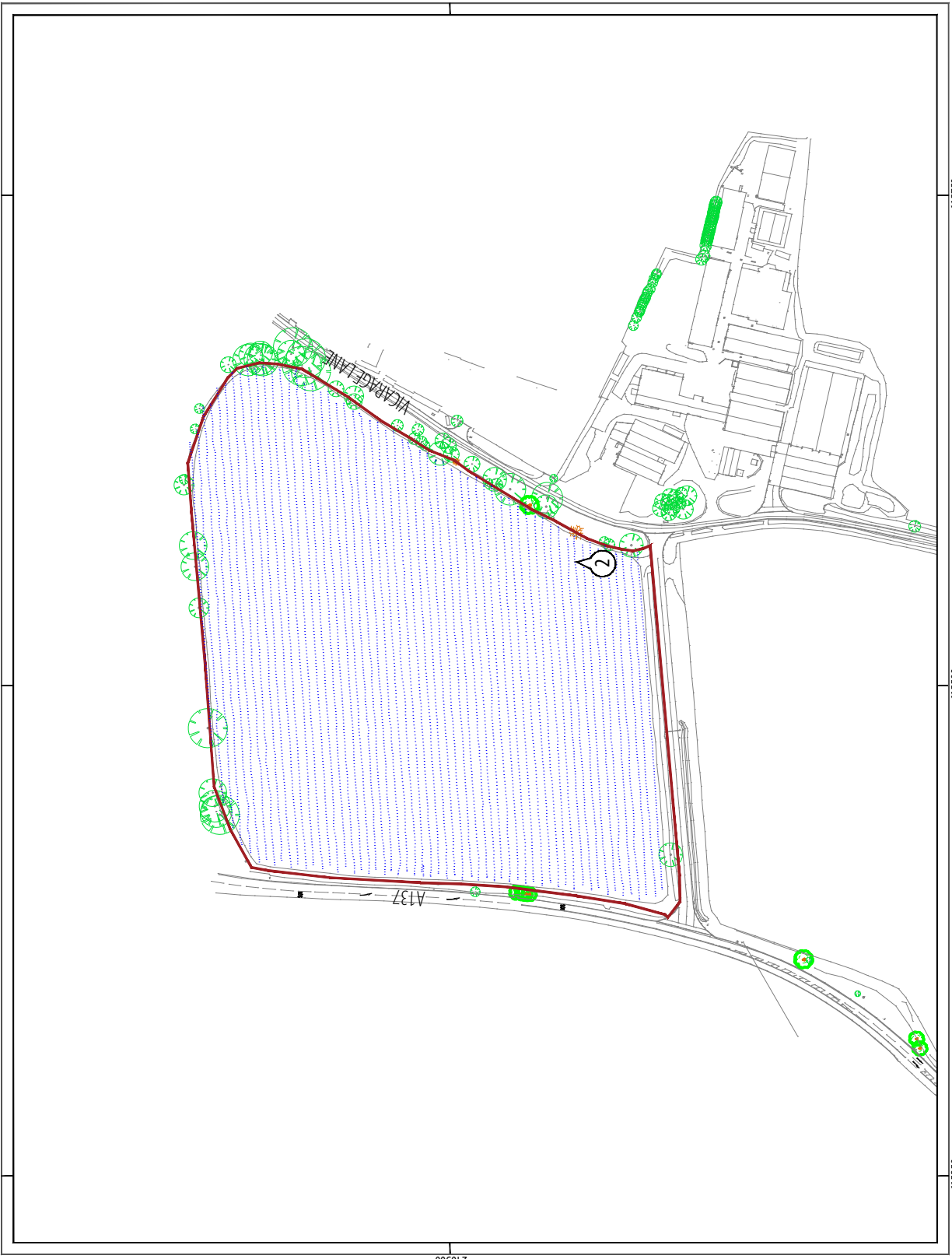
## 5 CONCLUSION

The survey has successfully evaluated the geophysical survey area and has not identified any anomalies of definite archaeological origin. The survey has identified six anomalies that are interpreted as of possible archaeological potential, but this interpretation is considered tentative. Therefore, on the basis of the geophysical survey, the site is assessed to be of low archaeological potential.

## 6 REFERENCES

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-  proposed development area
-  GPS swaths
-  location and direction of ILLUS 2



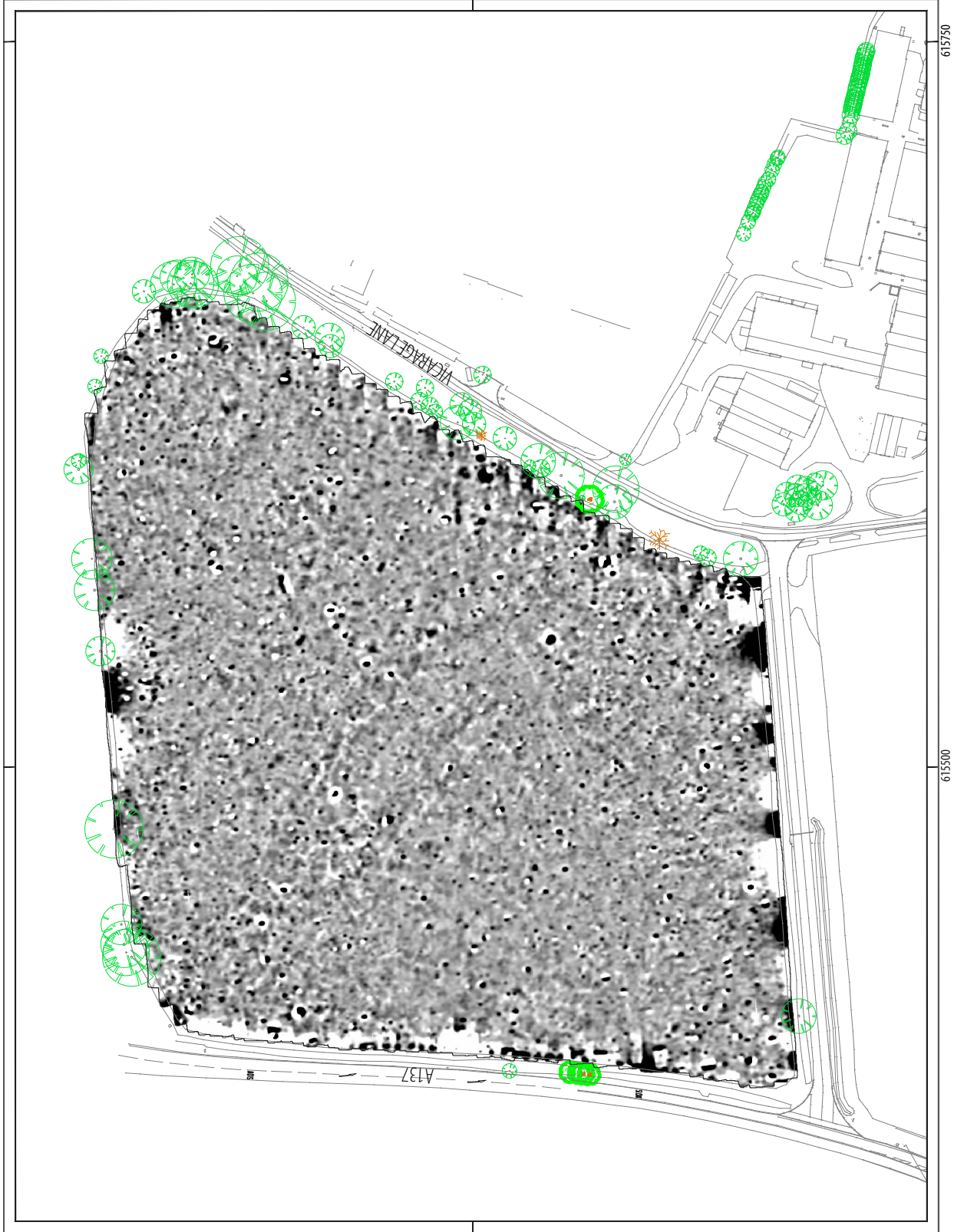
**PROJECT**  
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 Land west of Vicarage Lane  
 Wherestead  
 Suffolk

**CLIENT**  
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**ILLUS 3** Survey location showing GPS swaths (1:3,000)



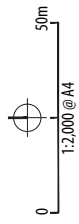
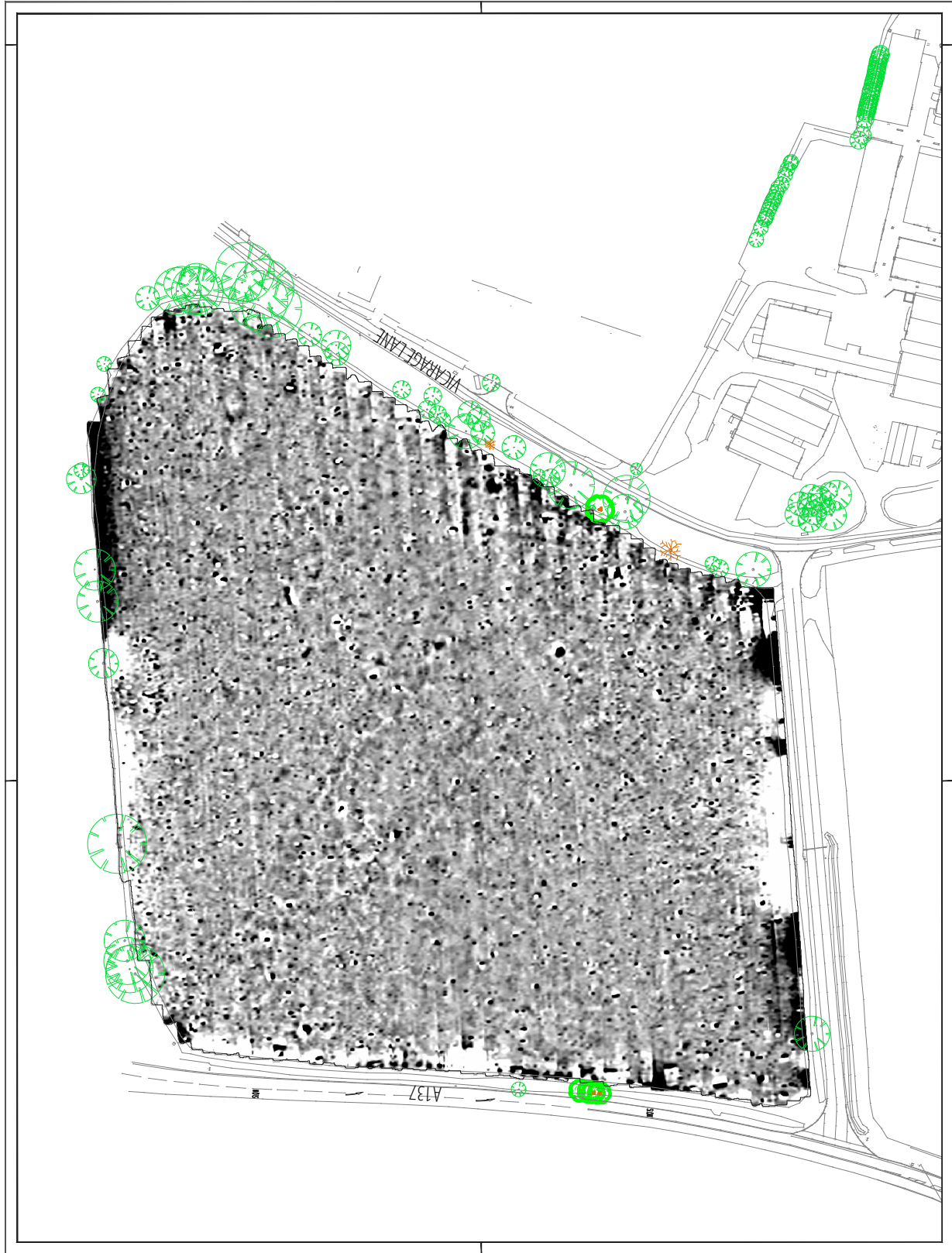
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ILLUS 4 Processed greyscale magnetometer data (1:2,000)



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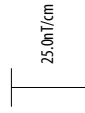


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615750

615500

ILLUS 5 Minimally processed greyscale magnetometer data (1:2000)



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Wharfedale  
Suffolk

**CLIENT** ACD Environmental



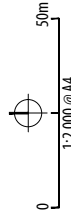
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ILLUS 6 XY trace plot of minimally processed magnetometer data (1:2,000)

TYPE OF ANOMALY	INTERPRETATION
•	ferrous material
●	ferrous material
—	geological variation
—	geology
—	archaeology?

ABBREVIATIONS

- D ditch
- P pit

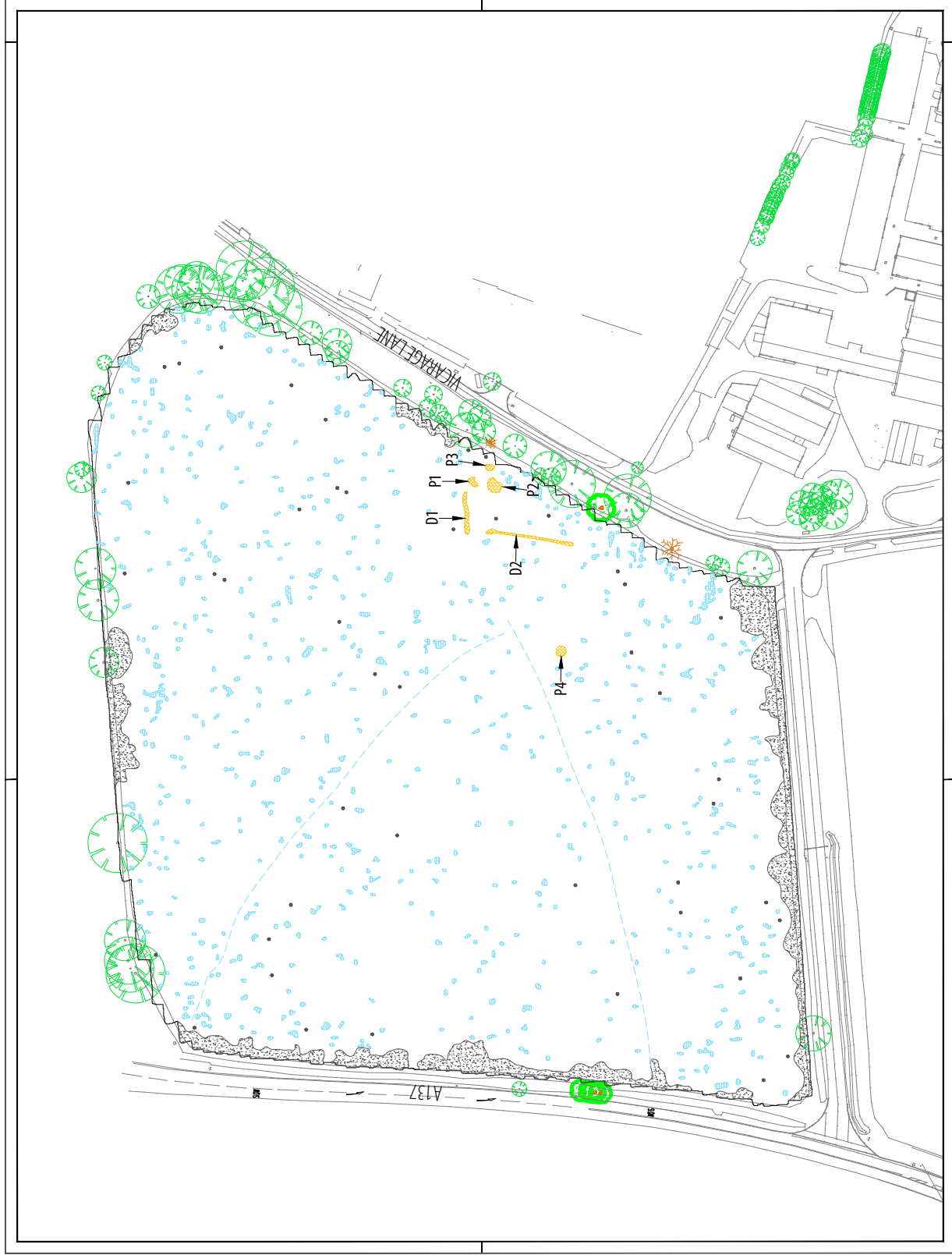


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615750

615300

ILLUS 7 Interpretation of magnetometer data (1:2,000)



## 7 APPENDICES

### APPENDIX 1 MAGNETOMETER SURVEY

#### *Appendix 1.1 Magnetic susceptibility and soil magnetism*

Iron makes up about 6% of the earth's crust and is mostly present in soils and rocks as minerals such as maghaemite and haematite. These minerals have a weak, measurable magnetic property termed magnetic susceptibility. Human activities can redistribute these minerals and change (enhance) others into more magnetic forms so that by measuring the magnetic susceptibility of the topsoil, areas where human occupation or settlement has occurred can be identified by virtue of the attendant increase (enhancement) in magnetic susceptibility. If the enhanced material subsequently comes to fill features, such as ditches or pits, localised isolated and linear magnetic anomalies can result whose presence can be detected by a magnetometer (fluxgate gradiometer).

In general, it is the contrast between the magnetic susceptibility of deposits filling cut features, such as ditches or pits, and the magnetic susceptibility of topsoils, subsoils and rocks into which these features have been cut, which causes the most recognisable responses. This is primarily because there is a tendency for magnetic ferrous compounds to become concentrated in the topsoil, thereby making it more magnetic than the subsoil or the bedrock. Linear features cut into the subsoil or geology, such as ditches, that have been silted up or have been backfilled with topsoil will therefore usually produce a positive magnetic response relative to the background soil levels. Discrete feature, such as pits, can also be detected.

The magnetic susceptibility of a soil can also be enhanced by the application of heat. This effect can lead to the detection of features such as hearths, kilns or areas of burning.

#### *Appendix 1.2 Types of magnetic anomaly*

In the majority of instances anomalies are termed 'positive'. This means that they have a positive magnetic value relative to the magnetic background on any given site. However, some features can manifest themselves as 'negative' anomalies that, conversely, means that the response is negative relative to the mean magnetic background.

Where it is not possible to give a probable cause of an observed anomaly a '?' is appended.

It should be noted that anomalies interpreted as modern in origin might be caused by features that are present in the topsoil or upper layers of the subsoil. Removal of soil to an archaeological or natural layer can therefore remove the feature causing the anomaly.

The types of response mentioned above can be divided into five main categories that are used in the graphical interpretation of the magnetic data:

**Isolated dipolar anomalies (iron spikes)** These responses are typically caused by ferrous material either on the surface or in the topsoil. They cause a rapid variation in the magnetic response giving a characteristic 'spiky' trace. Although ferrous archaeological artefacts could produce this type of response, unless there is supporting evidence for an archaeological interpretation, little emphasis is normally given to such anomalies, as modern ferrous objects are common on rural sites, often being present as a consequence of manuring.

**Areas of magnetic disturbance** These responses can have several causes often being associated with burnt material, such as slag waste or brick rubble or other strongly magnetised/fired material. Ferrous structures such as pylons, mesh or barbed wire fencing and buried pipes can also cause the same disturbed response. A modern origin is usually assumed unless there is other supporting information.

**Lightning-induced remnant magnetisation (LIRM)** LIRM anomalies are thought to be caused in the near surface soil horizons by the flow of an electrical currents associated with lightning strikes. These observed anomalies have a strong bipolar signal which decreases with distance from the spike point and often appear as linear or radial in shape.

**Linear trend** This is usually a weak or broad linear anomaly of unknown cause or date. These anomalies are often caused by agricultural activity, either ploughing or land drains being a common cause.

**Areas of magnetic enhancement/positive isolated anomalies** Areas of enhanced response are characterised by a general increase in the magnetic background over a localised area whilst discrete anomalies are manifest by an increased response (sometimes only visible on an XY trace plot) on two or three successive traverses. In neither instance is there the intense dipolar response characteristic exhibited by an area of magnetic disturbance or of an 'iron spike' anomaly (see above). These anomalies can be caused by infilled discrete archaeological features such as pits or post-holes or by kilns. They can also be caused by pedological variations or by natural infilled features on certain geologies. Ferrous material in the subsoil can also give a similar response. It can often therefore be very difficult to establish an anthropogenic origin without intrusive investigation or other supporting information.

**Linear and curvilinear anomalies** Such anomalies have a variety of origins. They may be caused by agricultural practice (recent ploughing trends, earlier ridge and furrow regimes or land drains), natural geomorphological features such as palaeochannels or by infilled archaeological ditches.

### APPENDIX 2 SURVEY LOCATION INFORMATION

An initial survey base station was established using a Trimble VRS differential Global Positioning System (dGPS). The magnetometer data was georeferenced using a Trimble RTK differential Global Positioning System (Trimble R8s model).

Temporary sight markers were laid out using a Trimble VRS differential Global Positioning System (Trimble R8s model) to guide the operator and ensure full coverage. The accuracy of this dGPS equipment is better than 0.01m.

The survey data were then super-imposed onto a base map provided by the client to produce the displayed block locations. However, it should be noted that Ordnance Survey positional accuracy for digital map data has an error of 0.5m for urban and floodplain areas, 1.0m for rural areas and 2.5m for mountain and moorland areas. This potential error must be considered if coordinates are measured off hard copies of the mapping rather than using the digital coordinates.

*Headland Archaeology cannot accept responsibility for errors of fact or opinion resulting from data supplied by a third party.*

## APPENDIX 3 GEOPHYSICAL SURVEY ARCHIVE

The geophysical archive comprises an archive disk containing the raw data in XYZ format, a raster image of each greyscale plot with associate world file, and a PDF of the report.

The project will be archived in-house in accordance with recent good practice guidelines ([http://guides.archaeologydataservice.ac.uk/g2gp/Geophysics\\_3](http://guides.archaeologydataservice.ac.uk/g2gp/Geophysics_3)). The data will be stored in an indexed archive and migrated to new formats when necessary.

## APPENDIX 4 DATA PROCESSING

The gradiometer data has been presented in this report in processed greyscale and minimally processed XY trace plot format.

Data collected using RTK GPS-based methods cannot be produced without minimal processing of the data. The minimally processed data has been interpolated to project the data onto a regular grid and de-striped to correct for slight variations in instrument calibration drift and any other artificial data.

A high pass filter has been applied to the greyscale plots to remove low frequency anomalies (relating to survey tracks and modern agricultural features) in order to maximise the clarity and interpretability of the archaeological anomalies.

The data has also been clipped to remove extreme values and to improve data contrast.

## APPENDIX 5 OASIS DATA COLLECTION FORM: ENGLAND

OASIS ID: *headland5-384377*

## PROJECT DETAILS

<b>Project name</b>	Land west of Vicarage Lane, Wherstead, Suffolk
<b>Short description of the project</b>	Headland Archaeology (UK) Ltd undertook a geophysical (magnetometer) survey covering 5 hectares on land west of Vicarage Lane, Wherstead, where a commercial development is proposed. The survey has not identified any anomalies of definite archaeological potential. Six anomalies (two ditches and four pits) are interpreted as of possible archaeological potential although this interpretation is tentative. Overall the site is assessed to be of low archaeological potential on the basis of the geophysical survey.
<b>Project dates</b>	Start: 23-01-2020 End: 23-01-2020
<b>Previous/future work</b>	No / Not known
<b>Any associated project reference codes</b>	VLWS20 - Contracting Unit HER Event No. WHR 135
<b>Type of project</b>	Field evaluation
<b>Site status</b>	None
<b>Current Land use</b>	Cultivated Land 4 - Character Undetermined
<b>Monument type</b>	N/A
<b>Monument type</b>	N/A
<b>Significant Finds</b>	N/A
<b>Significant Finds</b>	N/A
<b>Methods &amp; techniques</b>	"Geophysical Survey"
<b>Development type</b>	Rural commercial
<b>Prompt</b>	National Planning Policy Framework - NPPF
<b>Position in the planning process</b>	Pre-application
<b>Solid geology (other)</b>	Crag Formation
<b>Drift geology (other)</b>	Lowestoft Formation
<b>Techniques</b>	Magnetometry

## PROJECT LOCATION

<b>Country</b>	England
<b>Site location</b>	Suffolk Babergh Wherstead: Land west of Vicarage Lane, Wherstead, Suffolk
<b>Study area</b>	5 Hectares
<b>Site coordinates</b>	TM 1550 4050 52.020454286194 1.141211620447 52 01 13 N 001 08 28 E Point

## PROJECT CREATORS

<b>Name of Organisation</b>	Headland Archaeology
<b>Project brief originator</b>	ACD Environmental
<b>Project design originator</b>	Headland Archaeology
<b>Project director/manager</b>	David Harrison
<b>Project supervisor</b>	Olivier Vansassenbrouck
<b>Type of sponsor/funding body</b>	Developer

## PROJECT ARCHIVES

<b>Physical Archive Exists?</b>	No
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Digital Archive recipient	In house
Digital Contents	"none"
Digital Media available	"Geophysics"
Paper Archive Exists?	No

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PROJECT BIBLIOGRAPHY 1

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Publication type	Grey literature (unpublished document/manuscript)
Title	Land west of Vicarage Lane, Wherstead, Suffolk; Geophysical Survey Report
Author(s)/Editor(s)	Krasimir Dyulgierski
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Entered by	David Harrison (david.harrison@headlandarchaeology.com)
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