



# Land to the North East of KGV Playing Fields, Cuffley

Geo-Physical Survey Report  
June 2015

KGV-GPS-2015-001



Lands Improvement

GEOPHYSICAL SURVEY REPORT

# STRATASCAN™



Project name:  
**Land at Cuffley, Hertfordshire**

Client:  
**Heritage Network Ltd**

**November 2014**

Job ref:  
**7542**

Report author:  
**James Slater BSc (Hons)**

# **GEOPHYSICAL SURVEY REPORT**

Project name:

**Land at Cuffley, Hertfordshire**

Client:

**Heritage Network**



Job ref:

**7542**

Techniques:

**Detailed magnetic survey –  
Gradiometry**

Survey date:

**6th - 7th November 2014**

Site centred at:

**TL 301 020**

Post code:

**EN6 4RD**

Field team:

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## 1 SUMMARY OF RESULTS

A detailed gradiometry survey was conducted over approximately 5 hectares of arable farmland at Cuffley, Hertfordshire. Two former field boundaries are present in Area 1, visible on mapping from 1874. A single point anomaly is present in Area 1 and could be evidence of an archaeological pit feature, however the response is weak and the feature very isolated meaning it could also be of natural or agricultural origin.

The remaining features are all of modern origin, including agricultural marks, modern services and various forms of magnetic disturbance and debris.

## 2 INTRODUCTION

### 2.1 *Background synopsis*

Stratascan were commissioned to undertake a geophysical survey of an area outlined for development. This survey forms part of an archaeological investigation being undertaken by Heritage Network Ltd.

### 2.2 *Site location*

The site is located south of Cuffley at OS ref. TL 301 020. Area 1 is an arable field located to the south of Cuffley School, whilst Area 2 is located approximately 150 metres south of Area 1.

### 2.3 *Description of site*

The survey area is approximately 5 hectares of arable land, which at the time of survey contained crop stubble. The land slopes uphill to the east in Area 1 and is generally flat in Area 2. The only obstruction was a small car park in the north of Area 2.

### 2.4 *Geology and soils*

The underlying geology is Lambeth Group – Clay Silt and Sand, and London Clay Formation. (British Geological Survey website). There is no recorded drift geology (British Geological Survey website).

The overlying soils are known as Windsor which are typical Pelto-stagnogley soils. These consist of clayey soils, with some fine loamy and silty soils over clayey soils (Soil Survey of England and Wales, Sheet 6, South East England).

### 2.5 *Site history and archaeological potential*

Some evidence of Mesolithic and Neolithic activity including various flints and other implements and a lithic working site have been discovered within 1km of the survey area. 17<sup>th</sup>

century wells and fishponds are also present in Cuffley (English Heritage, 2014).

## 2.6 **Survey objectives**

The objective of the survey was to locate any features of possible archaeological origin in order that they may be assessed prior to development.

## 2.7 **Survey methods**

This report and all fieldwork have been conducted in accordance with both the English Heritage guidelines outlined in the document: *Geophysical Survey in Archaeological Field Evaluation, 2008* and with the Institute for Archaeologists document *Standard and Guidance for Archaeological Geophysical Survey*.

Detailed magnetic survey (gradiometry) was used as an efficient and effective method of locating archaeological anomalies. More information regarding this technique is included in Appendix A.

## 2.8 **Processing, presentation and interpretation of results**

### 2.8.1 *Processing*

Processing is performed using specialist software. This can emphasise various aspects contained within the data but which are often not easily seen in the raw data. Basic processing of the magnetic data involves 'flattening' the background levels with respect to adjacent traverses and adjacent grids. Once the basic processing has flattened the background it is then possible to carry out further processing which may include low pass filtering to reduce 'noise' in the data and hence emphasise the archaeological or man-made anomalies.

The following schedule shows the basic processing carried out on all minimally processed gradiometer data used in this report:

1. *Destripe* (Removes striping effects caused by zero-point discrepancies between different sensors and walking directions)
2. *Destagger* (Removes zigzag effects caused by inconsistent walking speeds on sloping, uneven or overgrown terrain)

### 2.8.2 *Presentation of results and interpretation*

The presentation of the data for each site involves a print-out of the minimally processed data both as a greyscale plot and a colour plot showing extreme magnetic values. Magnetic anomalies have been identified and plotted onto the 'Abstraction and Interpretation of Anomalies' drawing for the site.

### 3 RESULTS

The detailed magnetic gradiometer survey conducted at Cuffley, Hertfordshire has identified a number of anomalies that have been characterised as being either of a *probable* or *possible* archaeological origin.

The difference between *probable* and *possible* archaeological origin is a confidence rating. Features identified within the dataset that form recognisable archaeological patterns or seem to be related to a deliberate historical act have been interpreted as being of a probable archaeological origin.

Features of possible archaeological origin tend to be more amorphous anomalies which may have similar magnetic attributes in terms of strength or polarity but are difficult to classify as being archaeological or natural.

The following list of numbered anomalies refers to numerical labels on the interpretation plots.

#### 3.1 *Probable Archaeology*

- 1 Two linear anomalies in Area 1 representing former field boundaries visible on mapping from 1874 -1989.

#### 3.2 *Possible Archaeology*

- 2 A small discrete positive anomaly in the east of Area 1. This is indicative of a small former cut feature, such as a backfilled pit, and may be of archaeological origin. It is more likely to be natural or agricultural.

#### 3.3 *Other Anomalies*

- 3 Parallel linear anomalies in Area 1 associated with modern agricultural activity.
- 4 A high amplitude bipolar linear anomaly in Area 2. This is indicative of an underground service.
- 5 Weak bipolar linear anomalies in Area 1. These are indicative of land drains.
- 6 Areas of magnetic disturbance are the result of substantial nearby ferrous metal objects such as fences and underground services. These effects can

mask weaker archaeological anomalies, but on this site have not affected a significant proportion of the area.

- 7 An area of strong magnetic debris in Area 2, related to the adjacent car park.
- 8 Scattered magnetic debris of modern origin.
- 9 A number of magnetic 'spikes' (strong focussed values with associated antipolar response) indicate ferrous metal objects. These are likely to be modern rubbish.

## 4 CONCLUSION

The survey at Cuffley has identified two former field boundaries as the only probable archaeology on the site. A single possible archaeological anomaly has also been identified; however this could equally be of natural or agricultural origin. The remaining anomalies are of modern origin. These relate to agricultural activity, an underground service, land drains, scattered magnetic debris, ferrous objects and fencing.

The clay geology of the site generally gives a poor response to magnetic survey (English Heritage 2008), however the survey appears to have been successful. The presence of former field boundaries and weak land drains suggest that the survey is detecting weak anomalies and would be effective in identifying any archaeology on the site.

## 5 REFERENCES

British Geological Survey South Sheet, 1977. *Geological Survey Ten Mile Map, South Sheet First Edition (Quaternary)*. Institute of Geological Sciences.

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Institute For Archaeologists. *Standard and Guidance for Archaeological Geophysical Survey*.  
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Soil Survey of England and Wales, 1983. *Soils of England and Wales, Sheet 6, South East England*.

## APPENDIX A – METHODOLOGY & SURVEY EQUIPMENT

### ***Grid locations***

The location of the survey grids has been plotted together with the referencing information. Grids were set out using a Leica 705auto Total Station and referenced to suitable topographic features around the perimeter of the site or a Leica Smart Rover RTK GPS.

An RTK GPS (Real-time Kinematic Global Positioning System) can locate a point on the ground to a far greater accuracy than a standard GPS unit. A standard GPS suffers from errors created by satellite orbit errors, clock errors and atmospheric interference, resulting in an accuracy of 5m-10m. An RTK system uses a single base station receiver and a number of mobile units. The base station re-broadcasts the phase of the carrier it measured, and the mobile units compare their own phase measurements with those they received from the base station. A SmartNet RTK GPS uses Ordnance Survey's network of over 100 fixed base stations to give an accuracy of around 0.01m.

### ***Survey equipment and gradiometer configuration***

Although the changes in the magnetic field resulting from differing features in the soil are usually weak, changes as small as 0.2 nanoTeslas (nT) in an overall field strength of 48,000nT, can be accurately detected using an appropriate instrument.

The mapping of the anomaly in a systematic manner will allow an estimate of the type of material present beneath the surface. Strong magnetic anomalies will be generated by buried iron-based objects or by kilns or hearths. More subtle anomalies such as pits and ditches can be seen if they contain more humic material which is normally rich in magnetic iron oxides when compared with the subsoil.

To illustrate this point, the cutting and subsequent silting or backfilling of a ditch may result in a larger volume of weakly magnetic material being accumulated in the trench compared to the undisturbed subsoil. A weak magnetic anomaly should therefore appear in plan along the line of the ditch.

The magnetic survey was carried out using a dual sensor Grad601-2 Magnetic Gradiometer manufactured by Bartington Instruments Ltd. The instrument consists of two fluxgates very accurately aligned to nullify the effects of the Earth's magnetic field. Readings relate to the difference in localised magnetic anomalies compared with the general magnetic background. The Grad601-2 consists of two high stability fluxgate gradiometers suspended on a single frame. Each gradiometer has a 1m separation between the sensing elements so enhancing the response to weak anomalies.

### ***Sampling interval***

Readings were taken at 0.25m centres along traverses 1m apart. This equates to 3600 sampling points in a full 30m x 30m grid.

### ***Depth of scan and resolution***

The Grad 601-2 has a typical depth of penetration of 0.5m to 1.0m, though strongly magnetic objects may be visible at greater depths. The collection of data at 0.25m centres provides an optimum methodology for the task balancing cost and time with resolution.

### ***Data capture***

The readings are logged consecutively into the data logger which in turn is daily down-loaded into a portable computer whilst on site. At the end of each site survey, data is transferred to the office for processing and presentation.

## APPENDIX B – BASIC PRINCIPLES OF MAGNETIC SURVEY

Detailed magnetic survey can be used to effectively define areas of past human activity by mapping spatial variation and contrast in the magnetic properties of soil, subsoil and bedrock.

Weakly magnetic iron minerals are always present within the soil and areas of enhancement relate to increases in *magnetic susceptibility* and permanently magnetised *thermoremanent* material.

Magnetic susceptibility relates to the induced magnetism of a material when in the presence of a magnetic field. This magnetism can be considered as effectively permanent as it exists within the Earth's magnetic field. Magnetic susceptibility can become enhanced due to burning and complex biological or fermentation processes.

Thermoremanence is a permanent magnetism acquired by iron minerals that, after heating to a specific temperature known as the Curie Point, are effectively demagnetised followed by re-magnetisation by the Earth's magnetic field on cooling. Thermoremanent archaeological features can include hearths and kilns and material such as brick and tile may be magnetised through the same process.

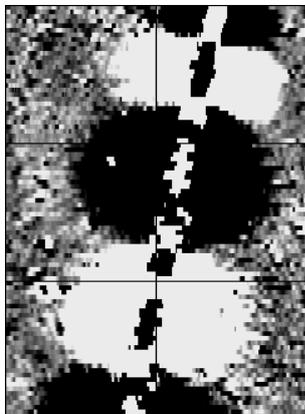
Silting and deliberate infilling of ditches and pits with magnetically enhanced soil creates a relative contrast against the much lower levels of magnetism within the subsoil into which the feature is cut. Systematic mapping of magnetic anomalies will produce linear and discrete areas of enhancement allowing assessment and characterisation of subsurface features. Material such as subsoil and non-magnetic bedrock used to create former earthworks and walls may be mapped as areas of lower enhancement compared to surrounding soils.

Magnetic survey is carried out using a fluxgate gradiometer which is a passive instrument consisting of two sensors mounted vertically 1m apart. The instrument is carried about 30cm above the ground surface and the top sensor measures the Earth's magnetic field whilst the lower sensor measures the same field but is also more affected by any localised buried field. The difference between the two sensors will relate to the strength of a magnetic field created by a buried feature, if no field is present the difference will be close to zero as the magnetic field measured by both sensors will be the same.

Factors affecting the magnetic survey may include soil type, local geology, previous human activity, disturbance from modern services etc.

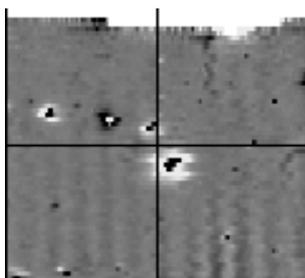
## APPENDIX C – GLOSSARY OF MAGNETIC ANOMALIES

### Bipolar



A bipolar anomaly is one that is composed of both a positive response and a negative response. It can be made up of any number of positive responses and negative responses. For example a pipeline consisting of alternating positive and negative anomalies is said to be bipolar. See also dipolar which has only one area of each polarity. The interpretation of the anomaly will depend on the magnitude of the magnetic field strength. A weak response may be caused by a clay field drain while a strong response will probably be caused by a metallic service.

### Dipolar

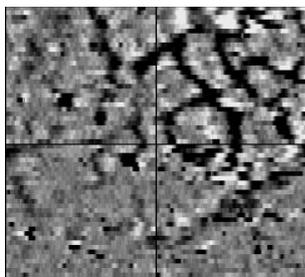


This consists of a single positive anomaly with an associated negative response. There should be no separation between the two polarities of response. These responses will be created by a single feature. The interpretation of the anomaly will depend on the magnitude of the magnetic measurements. A very strong anomaly is likely to be caused by a ferrous object.

### Positive anomaly with associated negative response

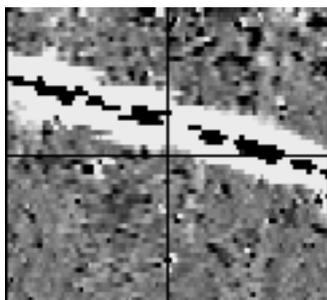
See bipolar and dipolar.

### Positive linear



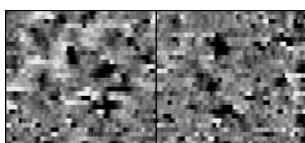
A linear response which is entirely positive in polarity. These are usually related to in-filled cut features where the fill material is magnetically enhanced compared to the surrounding matrix. They can be caused by ditches of an archaeological origin, but also former field boundaries, ploughing activity and some may even have a natural origin.

### Positive linear anomaly with associated negative response



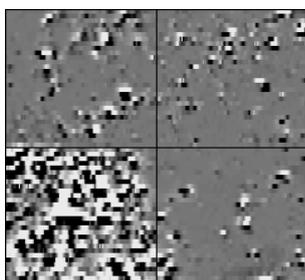
A positive linear anomaly which has a negative anomaly located adjacently. This will be caused by a single feature. In the example shown this is likely to be a single length of wire/cable probably relating to a modern service. Magnetically weaker responses may relate to earthwork style features and field boundaries.

### Positive point/area



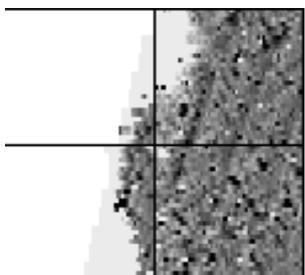
These are generally spatially small responses, perhaps covering just 3 or 4 reading nodes. They are entirely positive in polarity. Similar to positive linear anomalies they are generally caused by in-filled cut features. These include pits of an archaeological origin, possible tree bowls or other naturally occurring depressions in the ground.

### Magnetic debris



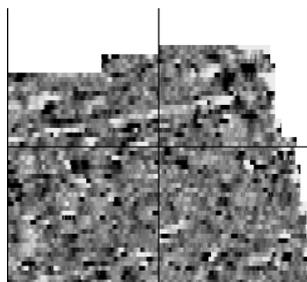
Magnetic debris consists of numerous dipolar responses spread over an area. If the amplitude of response is low ( $\pm 3nT$ ) then the origin is likely to represent general ground disturbance with no clear cause, it may be related to something as simple as an area of dug or mixed earth. A stronger anomaly ( $\pm 250nT$ ) is more indicative of a spread of ferrous debris. Moderately strong anomalies may be the result of a spread of thermoremanent material such as bricks or ash.

### Magnetic disturbance



Magnetic disturbance is high amplitude and can be composed of either a bipolar anomaly, or a single polarity response. It is essentially associated with magnetic interference from modern ferrous structures such as fencing, vehicles or buildings, and as a result is commonly found around the perimeter of a site near to boundary fences.

### Negative linear

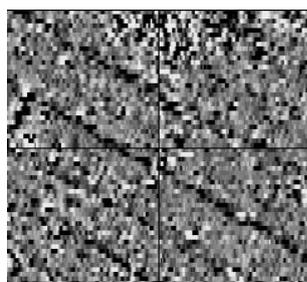


A linear response which is entirely negative in polarity. These are generally caused by earthen banks where material with a lower magnetic magnitude relative to the background top soil is built up. See also ploughing activity.

### Negative point/area

Opposite to positive point anomalies these responses may be caused by raised areas or earthen banks. These could be of an archaeological origin or may have a natural origin.

### Ploughing activity



Ploughing activity can often be visualised by a series of parallel linear anomalies. These can be of either positive polarity or negative polarity depending on site specifics. It can be difficult to distinguish between ancient ploughing and more modern ploughing. Clues such as the separation of each linear, straightness, strength of response and cross cutting relationships can be used to aid this, although none of these can be guaranteed to differentiate between different phases of activity.

### Polarity

Term used to describe the measurement of the magnetic response. An anomaly can have a positive polarity (values above 0nT) and/or a negative polarity (values below 0nT).

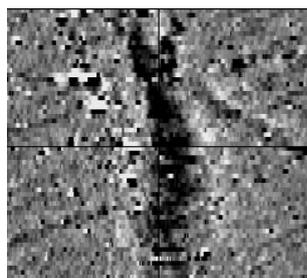
### Strength of response

The amplitude of a magnetic response is an important factor in assigning an interpretation to a particular anomaly. For example a positive anomaly covering a 10m<sup>2</sup> area may have values up to around 3000nT, in which case it is likely to be caused by modern magnetic interference. However, the same size and shaped anomaly but with values up to only 4nT may have a natural origin. Colour plots are used to show the amplitude of response.

### Thermoremanent response

A feature which has been subject to heat may result in it acquiring a magnetic field. This can be anything up to approximately +/-100 nT in value. These features include clay fired drains, brick, bonfires, kilns, hearths and even pottery. If the heat application has occurred in situ (e.g. a kiln) then the response is likely to be bipolar compared to if the heated objects have been disturbed and moved relative to each other, in which case they are more likely to take an irregular form and may display a debris style response (e.g. ash).

### Weak background variations



Weakly magnetic wide scale variations within the data can sometimes be seen within sites. These usually have no specific structure but can often appear curvy and sinuous in form. They are likely to be the result of natural features, such as soil creep, dried up (or seasonal) streams. They can also be caused by changes in the underlying geology or soil type which may contain unpredictable distributions of magnetic minerals, and are usually apparent in several locations across a site.

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 Vineyard House  
 Upper Hook Road  
 Upton Upon Severn  
 WR8 0SA

OS 100km square = TL



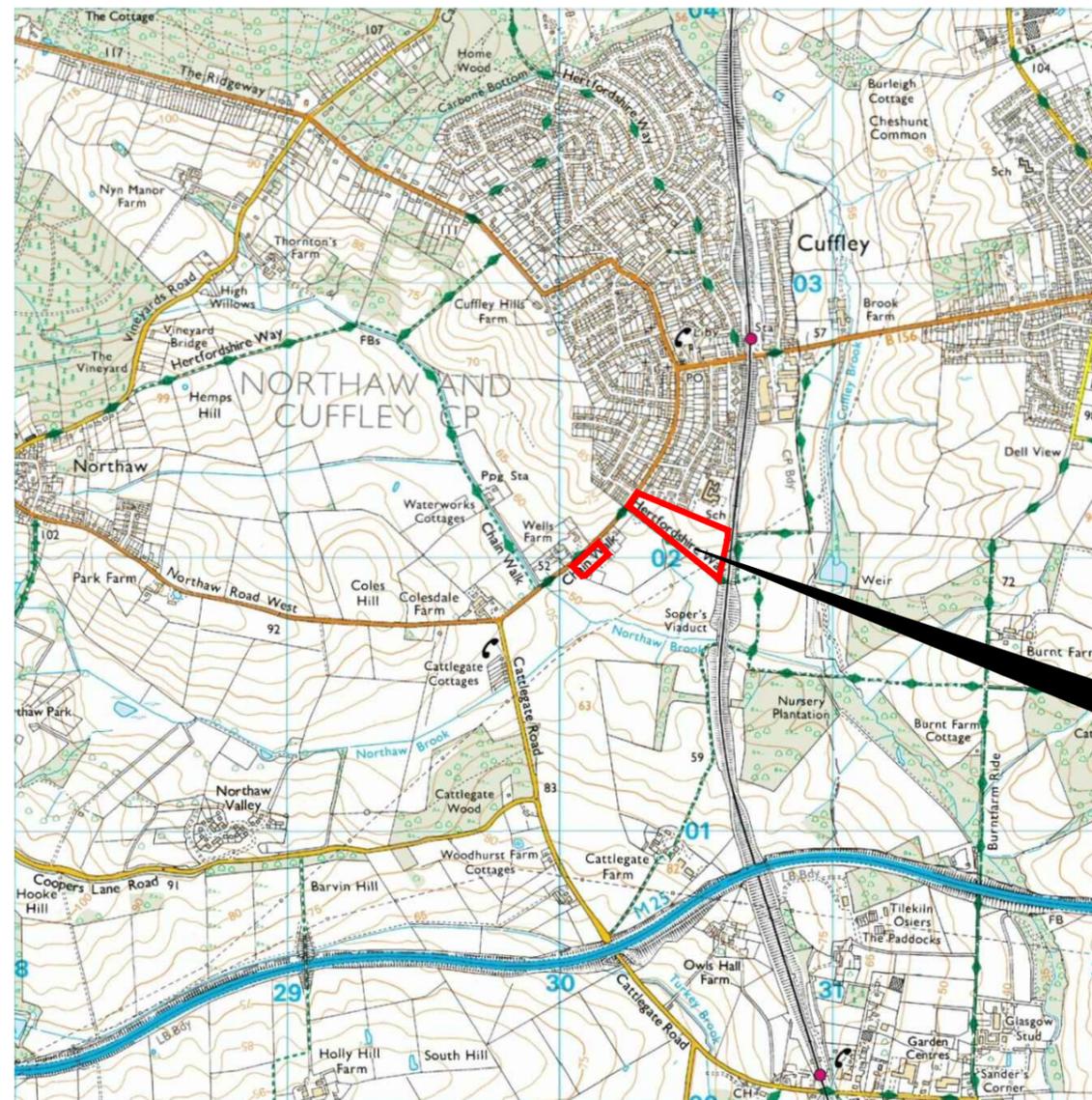
04

03

02

01

00



Survey Area

28

29

30

31

32

### Amendments

Issue No.	Date	Description
-	-	-

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Site centred on NGR TL 301 020

Client  
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Project Title Job No. 7542  
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Subject  
**LOCATION PLAN OF SURVEY AREA**

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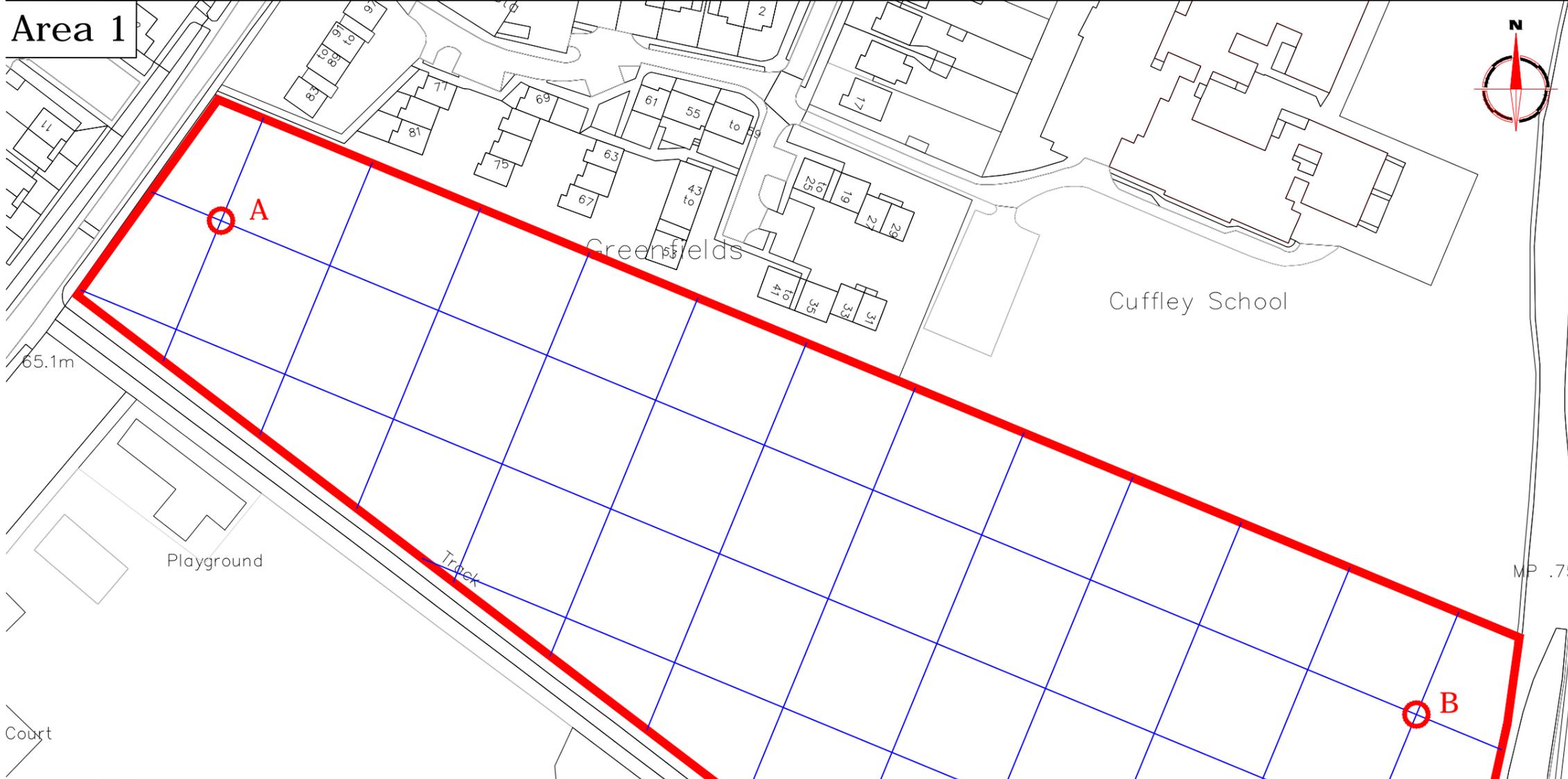
SUMO GROUP MEMBER



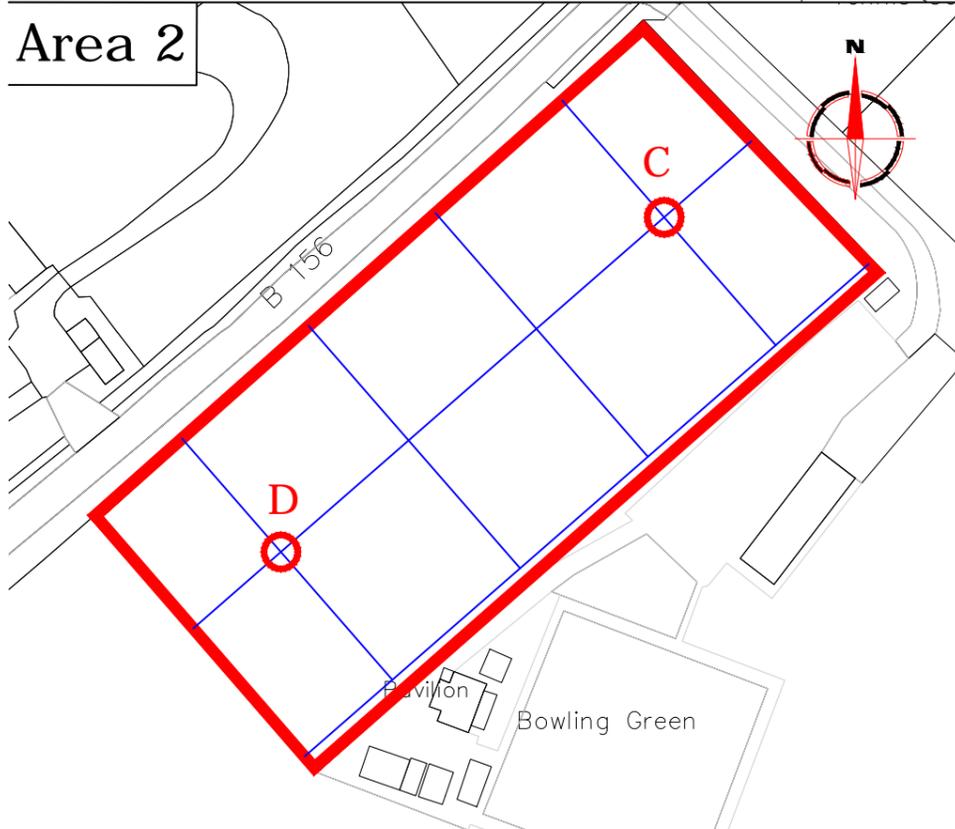
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Plot <b>A3</b>	Checked by <b>DGE</b>	Issue No. <b>01</b>
Survey date <b>NOV 14</b>	Drawn by <b>JHS</b>	Figure No. <b>01</b>

Area 1



Area 2



Amendments

Issue No.	Date	Description
-	-	-

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OS GRID REFERENCES

A	530290.45, 202197.63
B	530595.46, 202071.66
C	530145.89, 202020.32
D	530078.06, 201961.16

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**LOCATION OF SURVEY GRIDS AND REFERENCING**

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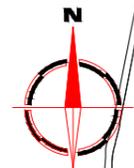
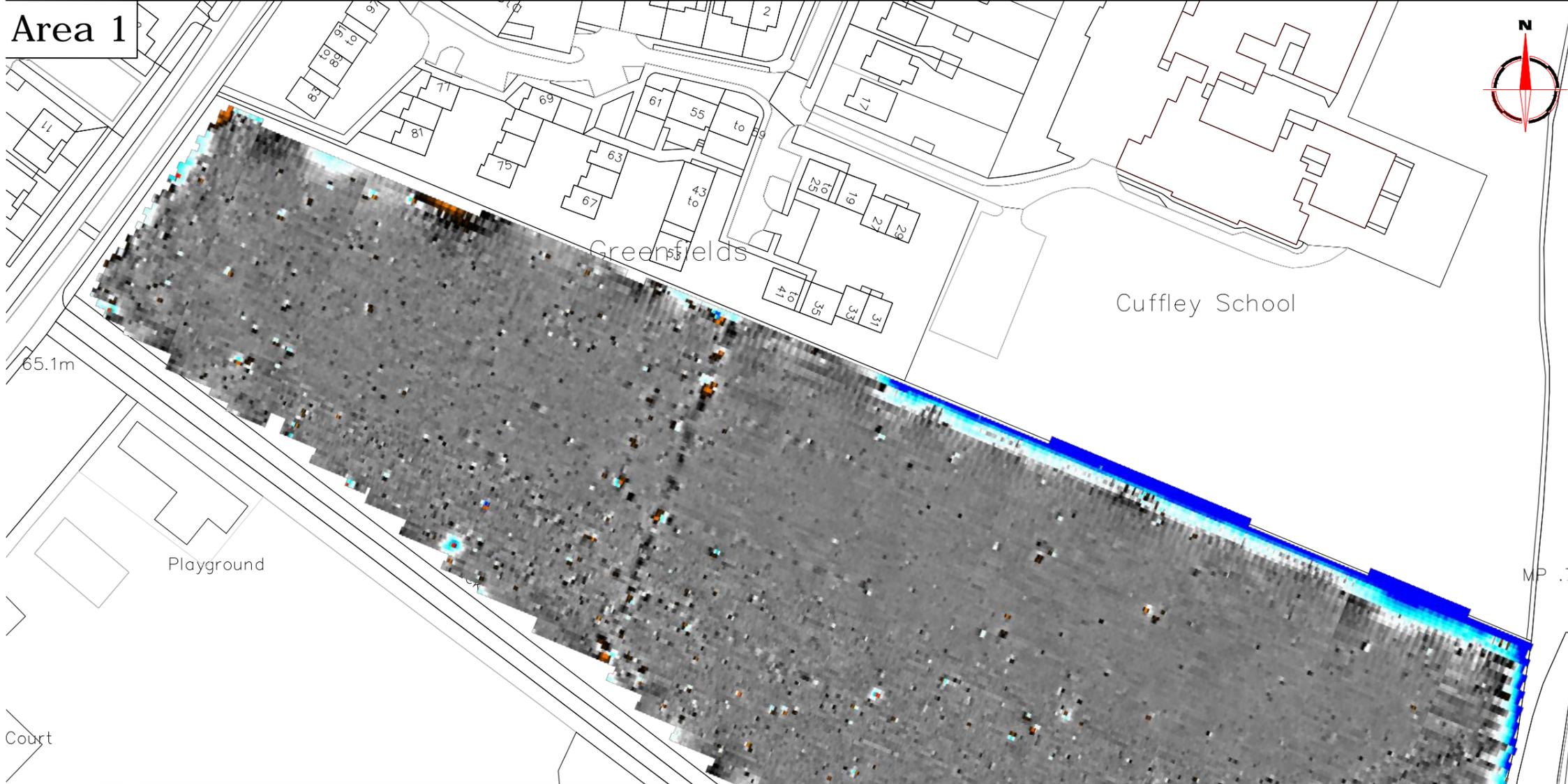
SUMO GROUP MEMBER



Scale  
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Survey date <b>NOV 14</b>	Drawn by <b>JHS</b>	Figure No. <b>02</b>

Area 1

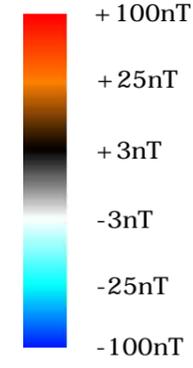


Amendments

Issue No.	Date	Description
-	-	-

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Plotting parameters  
 Maximum +100nT (red)  
 Minimum -100nT (blue)



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**LAND AT CUFFLEY, HERTFORDSHIRE**

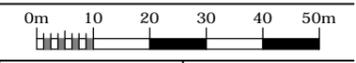
Subject  
**COLOUR PLOT OF GRADIOMETER DATA SHOWING EXTREME VALUES**

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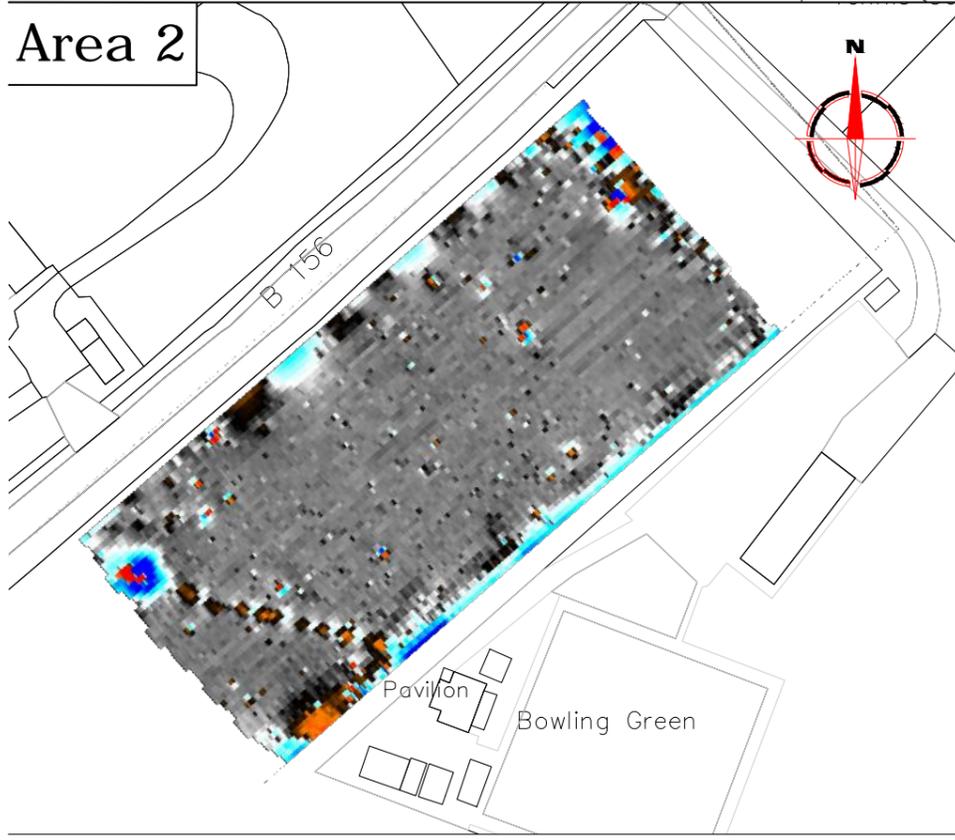


Scale  
**1:1250**



Plot <b>A3</b>	Checked by <b>DGE</b>	Issue No. <b>01</b>
Survey date <b>NOV 14</b>	Drawn by <b>RD</b>	Figure No. <b>03</b>

Area 2



65.1m

Playground

Court

Greenfields

Cuffley School

MP .75

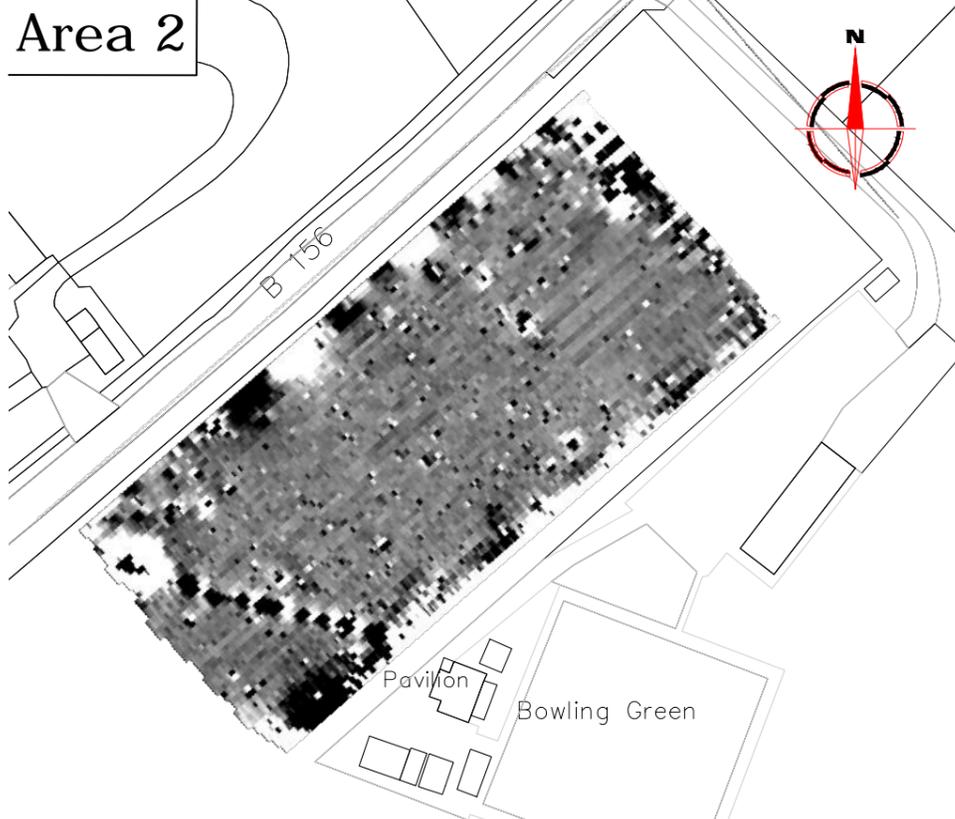
57.6m

Pavilion  
 Bowling Green

Area 1



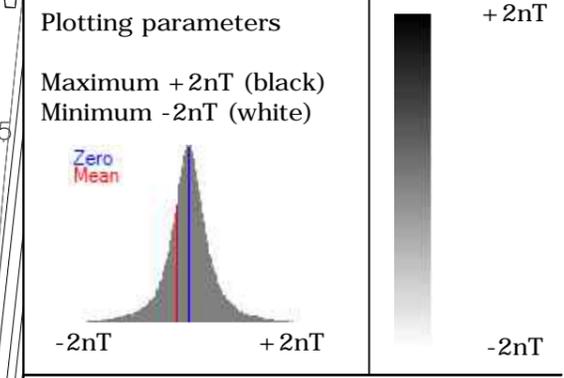
Area 2



Amendments

Issue No.	Date	Description
-	-	-

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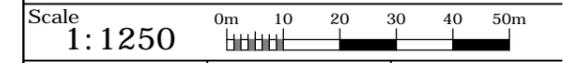
Project Title  
**LAND AT CUFFLEY, HERTFORDSHIRE**

Job No. 7542

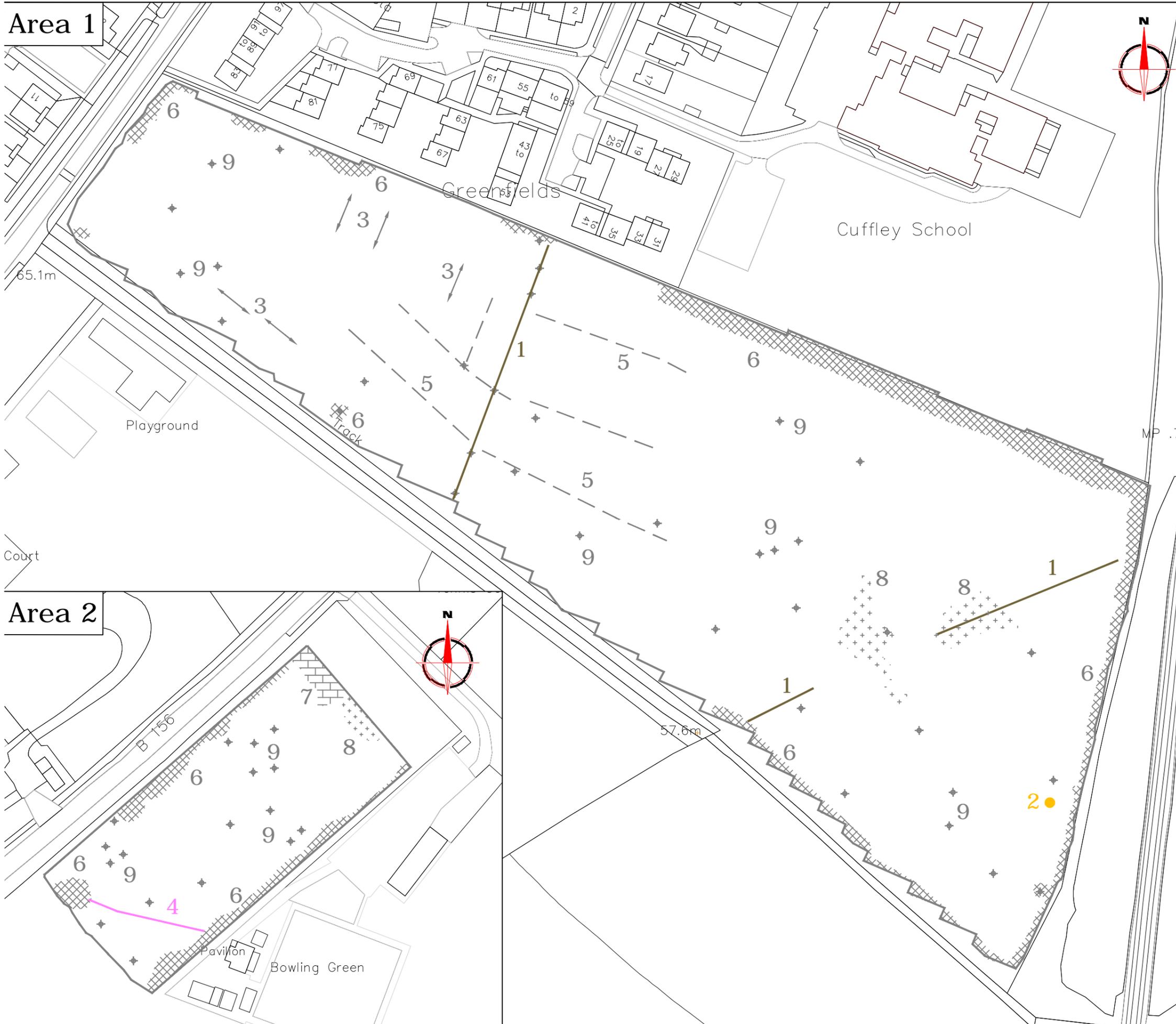
Subject  
**PLOT OF MINIMALLY PROCESSED GRADIOMETER DATA**

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Plot <b>A3</b>	Checked by <b>DGE</b>	Issue No. <b>01</b>
Survey date <b>NOV 14</b>	Drawn by <b>RD</b>	Figure No. <b>04</b>



Amendments		
Issue No.	Date	Description
-	-	-
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KEY		
PROBABLE ARCHAEOLOGY		
	Positive anomaly / weak positive anomaly - probable cut feature of archaeological origin	
	Negative anomaly / weak negative anomaly - probable bank or earthwork of archaeological origin	
	Linear anomaly - related to former field boundaries visible on mapping from 1874-1989	
	Widely spaced curving parallel linear anomalies - probably related to ridge-and-furrow	
POSSIBLE ARCHAEOLOGY		
	Positive anomaly / weak positive anomaly - possible cut feature of archaeological origin	
	Negative anomaly / weak negative anomaly - possible bank or earthwork of archaeological origin	
OTHER ANOMALIES		
	Closely spaced parallel linear anomalies - probably related to agricultural activity such as ploughing	
	Linear anomaly - probably related to pipe, cable or other modern service	
	Linear anomaly - possibly related to land drain	
	Magnetic disturbance associated with nearby metal object such as service or field boundary	
	Strong magnetic debris - possible disturbed or made ground	
	Scattered magnetic debris	
	Area of amorphous magnetic variation - probable natural (e.g. geological or pedological) origin	
	Magnetic spike - probable ferrous object	
Client		
<b>HERITAGE NETWORK LTD</b>		
Project Title		Job No. 7542
<b>LAND AT CUFFLEY, HERTFORDSHIRE</b>		
Subject		
ABSTRACTION AND INTERPRETATION OF GRADIOMETER ANOMALIES		
<b>STRATASCAN</b> <sup>TM</sup>		
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Scale		
1:1250		0m 10 20 30 40 50m
Plot	Checked by	Issue No.
A3	DGE	01
Survey date	Drawn by	Figure No.
NOV 14	RD	05

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