

SOLAR FARM, THETFORD ROAD, FAKENHAM MAGNA, SUFFOLK

DETAILED MAGNETOMETER SURVEY



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SOLAR FARM, THETFORD ROAD, FAKENHAM MAGNA, SUFFOLK

Detailed Magnetometer Survey

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Site Code	HNN 021	NGR	NGR TL 900 749
Planning Ref.	SE/12/1069/FUL	OASIS	britanni1-137601
Approved By	Matthew Adams	DATE	November 2012



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ABSTRACT

Detailed fluxgate gradiometer survey on two fields at Thetford Road, Fakenham Magna, Suffolk was successful in recording sixty discrete positive anomalies and one positive area anomaly of possible archaeological origin. Twenty seven weak positive linear anomalies demarcating the location of probable agricultural land drains, one broad positive anomaly of probable geological origin, three dipolar linear service pipe runs, large areas of magnetic disturbance a concentration of which may originate from the construction of the air base, and many dipolar 'iron-spike' anomalies were also prospected.

1.0 INTRODUCTION

Between the 15th to the 26th of October 2012, Britannia Archaeology Ltd (BA) undertook 22 hectares of detailed fluxgate gradiometer survey on agricultural land at Thetford Road, Fakenham Magna, Suffolk (NGR TL 900 749) in advance of the construction of a solar farm. The survey was undertaken on behalf of Jane Hunting of Richard Pike Associates in response to a brief (dated 18th September 2012) prepared by Rachael Monk of Suffolk County Council Archaeology Service/Conservation Team (SCCAS/CT). The weather was a mixture of sunshine in the first week, followed by overcast conditions during the second.

2.0 SITE DESCRIPTION

The site is located in an area dominated by agriculture to the south and east, a housing estate lies to the west and Honington RAF Air Base is present to the west and north, a farm track bisects the two fields.

The bedrock is described as Lewes Nodular, Seaford, Newhaven and Culver Chalk Formation formed approximately 71-94 million years ago during the Cretaceous Period when the local environment was dominated by warm chalk seas (BGS, 2012).

Superficial deposits are described as Lowestoft Formation Diamicton, deposits formed up to 2 million years ago in the Quaternary Period when the local environment was dominated by ice age conditions, glaciers scoured the landscape depositing moraines of till. Outwash sands and gravels were deposited during seasonal and post-glacial meltwaters. Head clay, silt, sand and gravel originating from deposits located on subaerial slopes have also accumulated down slope deposited during landslides, debris flow, solifluction, soil creep and hill wash (BGS, 2012).

2.1 *Site Visit 27/09/2012*

A site visit was undertaken on the 27th September to assess the ground conditions and to undertake a risk assessment. The conditions were found to be suitable for survey with only some straw bales and overhead power cables documented as being causes of concern.





DP1 Small Field Looking South



DP2 Large Field Looking North-West

3.0 PLANNING POLICIES

The archaeological investigation was carried out on the recommendation of the local planning authority, following guidance laid down by the National Planning and Policy Framework (NPPF, DCLD 2012) which replaces Planning Policy Statement 5: Planning for the Historic Environment (PPS5, DCLG 2010). The relevant local planning policies also include the Replacement St Edmundsbury Borough Local Plan 2016, (Policy 9. June 2006).

3.1 National Planning Policy Framework (NPPF, DCLG March 2012)

The NPPF recognises that 'heritage assets' are an irreplaceable resource and planning authorities should conserve them in a manner appropriate to their significance when considering development. It requires developers to record and advance understanding of



the significance of any heritage assets to be lost (wholly or in part) in a manner proportionate to their importance and the impact, and to make this evidence (and any archive generated) publicly accessible. The key areas for consideration are:

- The significance of the heritage asset and its setting in relation to the proposed development;
- The level of detail should be proportionate to the assets' importance and no more than is sufficient to understand the potential impact of the proposal on their significance;
- Significance (of the heritage asset) can be harmed or lost through alteration or destruction, or development within its setting. As heritage assets are irreplaceable, any harm or loss should require clear and convincing justification;
- Local planning authorities should not permit loss of the whole or part of a heritage asset without taking all reasonable steps to ensure the new development will proceed after the loss has occurred;
- Non-designated heritage assets of archaeological interest that are demonstrably of equivalent significance to scheduled monuments, should be considered subject to the policies for designated heritage assets.

3.2 Replacement St Edmundsbury Borough Local Plan 2016, (Policy 9. June 2006).

The *Replacement St Edmundsbury Borough Local Plan 2016* was adopted in June 2006 and is currently being updated by the Local Development Framework, which is at the consultation phase. Its aims and objectives for heritage and conservation are:

- To maintain and improve the quality of the built environment
- To achieve this aim, the objectives are to:

a) retain and enhance the character and appearance of the historic environment and ensure that new development is sensitive to the character of the locality;

b) safeguard listed buildings, conservation areas and parks and gardens of special historic or design interest and their settings from inappropriate development;

c) protect and conserve the fabric of historic buildings, structures and other features, and the archaeological remains related to them;

d) and protect and conserve sites of archaeological importance and their settings.

4.0 ARCHAEOLOGICAL BACKGROUND

The survey was undertaken over 22 hectares of agricultural land located in an area of high archaeological potential. It is close to a number of Bronze Age round barrows and Bronze Age findspots (HER numbers HNN 002, FKM 003, FKM 006 and FKM 008). There is therefore a high potential for archaeological assets to be disturbed by the proposed development. Three bomb craters are present within the larger field that were dropped



on one of the sixteen bombing runs undertaken by the Luftwaffe during the Second World War (RAF, 2012).

5.0 PROJECT AIMS

A geophysical survey is required over the development area to enable the archaeological resource, both in quality and extent, to be accurately quantified.

6.0 METHODOLOGY

6.1 Instrument Type Justification

Britannia Archaeology Ltd employed a Bartington Dual Grad 601-2 fluxgate gradiometer to undertake the survey, because of its high sensitivity and rapid ground coverage. The soils and underlying geology had a relatively very low magnetic background strength, allowing some very weak linear anomalies to be prospected. There was adequate contrast between the anomalies and the low magnetic susceptibility of the moraines, till, head clay and outwash sand and gravel natural drift geology.

6.2 Instrument Calibration

The Magnetometer was left on for a minimum of 20 minutes in the morning for the sensors to settle before the start of the first grid. The instrument was zeroed after every three grids to minimise the effect of sensor drift. A set-up station with low magnetic susceptibility was fairly easy to locate, this same station was used exclusively throughout the survey to align the sensors providing a common zero point. Sensor drift was noted during the outbreaks of sunshine in the first week, conversely the overcast conditions of the second week allowed the sensors to remain stable.

6.3 Sampling Interval and Grid Size

The sampling interval was set at 0.25m along 1m traverse intervals, providing 4 readings a metre, the magnetometer survey was undertaken on 20 x 20m grids.

6.4 Survey Grid Location

The survey grid was set out to the Ordnance Survey OSGB36 datum to an accuracy of ± 0.1 m employing a Leica Viva Glonnass Smart Rover GS08 differential global positioning system (DGPS). Data were then converted to the National Grid Transformation OSTN02 and the instrument was regularly tested using stations with known ETRS89 coordinates. The grids were positioned parallel to the long axis of the field for ease of survey progression, this meant that both fields were set out on a different local grid (Figure 2).



6.5 Data Capture

Instrument readings were recorded on an internal data logger that was downloaded to a laptop at midday and at the end of each day. The grid order was recorded on a BA proforma to aid in the creation of the composites. Data were filed in job specific folders and broken up into individual day composite datasets. These data composites were checked for quality on site by BA, allowing grids to be re-surveyed if necessary. The data were backed up onto an external storage device in the office and finally a remote server at the end of the day. A ten metre exclusion zone was left between the boundaries and the survey area to reduce the amount of disturbance caused by metal boundary fences, the air base had 3m high metal fences. Topographic details were recorded using the DGPS, these included bomb craters, straw bales, telegraph poles and inspection chambers (see Figures 1, 5 and 8).

6.6 Data Presentation and Processing

The raw corrected greyscale and XY trace plots were of a high enough quality that processed datasets were not required. Corrections allowing the dataset to be viewed in a raw format are shown below.

De-spike:	X diameter = 3, Y diameter = 3, Threshold = 1, centre
	value=mean, replace with = mean;
Data Clipping:	1 standard deviation;
De-stripe:	Traverse, Median, X (Horizontal).
Data Display:	Clip to -1/+1.

An interpretation plan characterising the anomalies recorded can be found at Figure 5 and 8. They draw together the evidence collated from both greyscale and XY trace plots (Figures 3, 4, 6 & 7). All figures were tied into the National Grid and printed to an appropriate scale.

6.7 Software

Raw data was downloaded using Bartington software Grad601 and will be stored in this format as raw data. The software used to process the data and produce the composites was DW Consulting's Archeosurveyor v2.0. Datasets were exported into AutoCAD and placed onto the local survey grid. An interpretation plot was then produced using AutoCAD.

6.8 Grid Restoration

Britannia Archaeology Ltd positioned four reference stations (orange wooden stakes) in the field (Figure 2) along the baselines, these same stations should be used to relocate the grid and geophysical anomalies.



7.0 PRESENTATION OF RESULTS

7.1 Small Field

Data recorded in the smaller field revealed six discrete positive anomalies, twenty seven weak positive linear anomalies, areas of magnetic disturbance along the site boundaries and many dipolar 'iron-spike' anomalies throughout the dataset.

The positive discrete anomalies (Figures 3, 4 and 5) were clustered in the central third of the field and are commonly indicative of rubbish pits of archaeological origin. However a more modern or even geological origin cannot be ruled out. Patches of sand present within the natural drift geology usually have higher magnetic susceptibility readings than the surrounding till, this can cause pit-like features to appear in the dataset.

Twenty seven weakly positive linear anomalies were prospected, they lie on four different orientations and have been interpreted as a series of land drains that have been laid at differing times over the last century.

There are many dipolar 'iron-spike' anomalies present throughout the dataset that were probably introduced into the field during episodes of manuring and general agricultural activity.

7.2 Large Field

The larger field (Figures 6, 7 and 8) revealed fifty four discrete positive anomalies, one large positive area anomaly with negative margin, one broad positive curvi-linear anomaly, nine weakly positive linear anomalies, three strong dipolar linear trends, areas of magnetic disturbance and a plethora of dipolar 'iron-spike' responses.

Fifty four discrete positive anomalies were recorded, similar to those present within the smaller field and they are possibly of archaeological origin although a geological cause cannot be ruled out.

One triangular shaped positive area anomaly with a negative margin is present in the eastern extremity of the data plot, a depression in the field was noted by the surveyors in this exact location. This anomaly has been interpreted as being of archaeological origin, but equally it could be modern. Soil appears to have been excavated and then spoiled around the edge, the negative responses demarcate the position of the excavated up-cast superficial geology which would have a lower magnetic susceptibility reading than the surrounding ploughsoil.

A broad positive curvilinear anomaly has been recorded to the north of one of the northeastern bomb craters. Due to its broad nature and irregular shape it has been interpreted as being of natural origin. This anomaly could also be related to the concentration of areas of magnetic disturbance located nearby.



Nine weakly positive linear anomalies, similar in character to those present within the smaller field, have been prospected. They have been interpreted as a system of land drainage of agricultural origin.

Three strong dipolar linear anomalies demarcate the location of service pipe runs that head towards Honington Air Base. Three inspection chambers were present on the central service run. A fourth service run is also expected to be present on the northern boundary where an inspection chamber is located, however this service run was not recorded by the gradiometer. Portions of the pipes have either been replaced or laid using two different pipe mediums, the non-ferrous pipe presents as a weakly positive linear trend.

Areas of magnetic disturbance are abundant within the larger field, some of which are relatively large and obscure the data. The largest is present on the western boundary caused by the high perimeter metal fence and a large steel constructed building. A 10m exclusion zone around the periphery was maintained because of the high metal fences of the air base, however many of the areas of magnetic disturbance are still present on the plots extremities. Magnetic disturbance, perhaps unsurprisingly, is present in and around the bomb craters, caused by fragments of exploded bomb and earth movement. A concentration of magnetic disturbance is also present to the north of the central service pipe and towards the air base. Due to the size of these areas it is likely that they have been caused by modern activity, perhaps associated with the construction of the air base. However, an archaeological origin cannot be ruled out.

The most abundant anomaly, as in the smaller field, are the high amounts of isolated dipolar ('iron-spike) responses that are present throughout the dataset.

8.0 DISCUSSION & CONCLUSION

A relatively very low background magnetic susceptibility level of the superficial geology allowed the Bartington DualGrad 601-2 fluxgate gradiometer to perform well over the superficial geology. Data could be tightly clipped to one standard deviation allowing relatively weak responses to be prospected. The site also had low-cropped foliage that had been rolled by the farmer prior to the commencement of the survey allowing the geophysicists to position the sensors nearer to the ground surface.

The positive discrete anomalies and the positive area anomaly may be worthy of further archaeological investigation to ascertain whether they are indeed of archaeological origin or of a naturally occurring nature. Areas of magnetic disturbance to the north of the central service pipe run may also be targeted to establish their origin. Areas of low magnetic susceptibility could also be tested to determine whether the gradiometer had been unsuccessful in detecting surviving archaeological features.



9.0 ACKNOWLEDGEMENTS

Britannia Archaeology Ltd would like to thank Jane Hunting of Richard Pike Associates for funding the project and for her help and support throughout.

We are also grateful for the advice of Rachael Monk of SCCAS/CT.

10.0 PROJECT ARCHIVE & DEPOSITION

A full archive will be prepared for all work undertaken in accordance with guidance from the *Selection, Retention and Dispersion of Archaeological Collections,* Archaeological Society for Museum Archaeologists, 1993. Arrangements will be made for the archive to be deposited with the relevant museum/HER Office.



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English Heritage PastScape www.pastscape.org.uk

Heritage Gateway <u>www.heritagegateway.org.uk</u>

Archaeological Data Service (ADS) <u>www.ads.ahds.ac.uk</u>



English Heritage National List for England www.english-heritage.org.uk/professional/protection/process/national-heritage-list-forengland

DEFRA Magic http://magic.defra.gov.uk/website/magic

Royal Air Force Honington, 2012 <u>http://www.raf.mod.uk/rafhonington/aboutus/history.cfm</u>



Appendix 1 – Technical Details

Magnetometer Survey

The magnetometer differs from the 'active' magnetic susceptibility meter by being a 'passive' instrument. Rather than injecting a signal into the ground it detects slight variations in the Earth's magnetic field caused by cultural and natural disturbance (Clark).

Thermoremanent magnetism is produced when a material containing iron oxides is strongly heated. Clay for example has a high iron oxide content that in a natural state is weakly magnetic, when heated these weakly magnetic compounds become highly magnetic oxides that a magnetometer can detect.

The demagnetisation of iron oxides occurs above a temperature known as the Curie point; for example haematite has a Curie point of 675 Celsius and magnetite 565C. At the time of cooling the iron oxides become permanently re-magnetised with their magnetic properties re-aligned in the direction of the Earth's magnetic field (Gaffney and Gater). The direction of the Earth's magnetic field shifts over time and these subtle alignment differences can be recorded. Kilns, hearths, baked clay and ovens can reach Curie point temperatures, and are the strongest responses apart from large iron objects that can be detected. Other cultural anomalies that can be prospected include occupation areas, pits, ditches, furnaces, sunken feature buildings, ridge and furrow field systems and ritual activity (David, 2011). Commonly recorded anomalies include modern ferrous service pipes, field drainage pipes, removed field boundaries, perimeter fences and field boundaries.

Fluxgate Gradiometers

Fluxgate gradiometers are sensitive instruments that utilise two sensors placed in a vertical plane, spaced 1 metre apart. The sensor above reads the Earth's magnetic (background) response while the sensor below records the local magnetic field. Both sensors are carefully adjusted to read zero before survey commences at a 'zeroing' point, selected for its relatively 'quiet' magnetic background reading. When differences in the magnetic field strength occur between the two sensors a positive or negative reading is logged. Positive anomalies have a positive magnetic value and conversely negative anomalies have a negative magnetic value relative to the site's magnetic background. Examples of positive magnetic anomalies include hearths, kilns, baked clay, areas of burning, ferrous material, ditches, sunken feature buildings, furrows, ferrous service pipes, perimeter fences and field boundaries. Negative magnetic anomalies include earthwork embankments, plastic water pipes and geological features.

The instruments are usually held approximately 0.30m to 0.50m above the ground surface and can detect to a depth of between 1-2metres. Best practice dictates that the optimal direction of traverse in Britain is east to west.



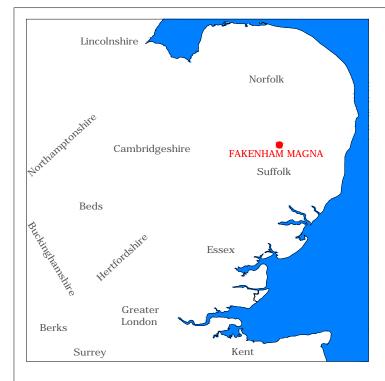
APPENDIX 2 – OASIS SHEET

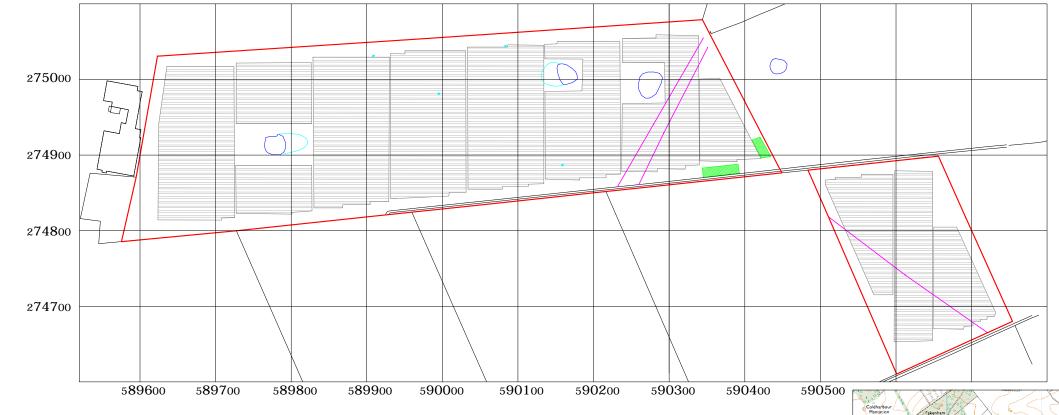
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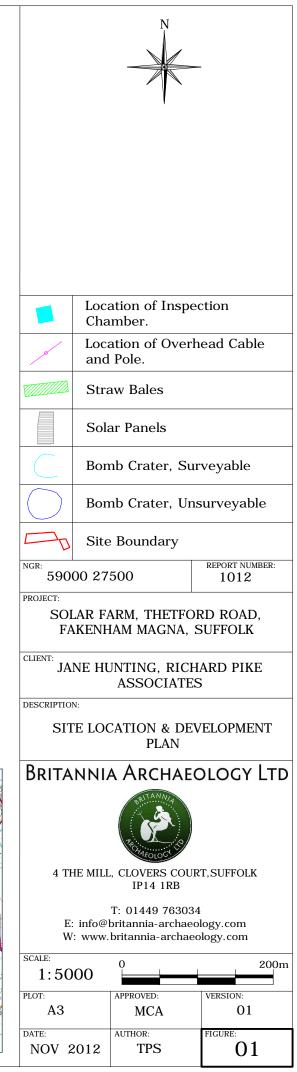
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Project name Short description of the project	Solar Farm, Thetford Road, Fakenham Magna, Suffolk Detailed fluxgate gradiometer survey on two fields at Thetford Road,
choir description of the project	Fakenham Magna, Suffolk was successful in recording sixty discrete
	positive anomalies and one positive area anomaly of possible
	archaeological origin. Twenty seven weak positive linear anomalies
	demarcating the location of probable agricultural land drains, one broad
	positive anomaly of probable geological origin, three dipolar linear
	service pipe runs, large areas of magnetic disturbance a concentration of
	which may originate from the construction of the air base, and many
	dipolar 'iron-spike' anomalies were also prospected.
Project dates Start: 15-10-2012	
Previous/future work	No / Yes
Any associated project reference	ce codes P1016 - Contracting Unit No.
Type of project	Field evaluation
Site status	Area of Archaeological Importance (AAI)
Current Land use	Cultivated Land 3 - Operations to a depth more than 0.25m
Monument type	None
Significant Finds	None
Methods & techniques	"Geophysical Survey"
Development type	Solar Farm
Prompt	Direction from Local Planning Authority - PPS
Position in the planning proces	
Solid geology	CHALK (INCLUDING RED CHALK) GLACIAL SAND AND GRAVEL
Drift geology Techniques	Magnetometry
rechniques	Magnetometry
Project location	
Country	England
Site location	SUFFOLK ST EDMUNDSBURY FAKENHAM MAGNA Solar Farm,
	Thetford Road, Fakenham Magna
Study area	22.00 Hectares
Site coordinates	TL 90 74 52 0 52 19 50 N 000 47 19 E Point
Height OD / Depth Min:	42.00m Max: 45.00m
Project creators	
Name of Organisation	Britannia Archaeology Ltd
Project brief originator	Local Authority Archaeologist and/or Planning Authority/advisory body
Project design originator	Timothy Schofield
Project director/manager	Timothy Schofield
Project supervisor	Timothy Schofield
Type of sponsor/funding body	Landowner
Project archives	
Physical Archive Exists?	No
Digital Archive recipient	Suffolk HER
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Digital Media available	"Database", "GIS", "Geophysics", "Images raster / digital photography",
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Paper Archive recipient	Suffolk HER
Paper Contents	"Survey"
Paper Media available	"Map", "Photograph", "Plan", "Report", "Survey ", "Unpublished Text"
Project bibliography 1	
Project bibliography 1 Publication type	Grey literature (unpublished document/manuscript)
Title	SOLAR FARM, THETFORD ROAD, FAKENHAM MAGNA, SUFFOLK;
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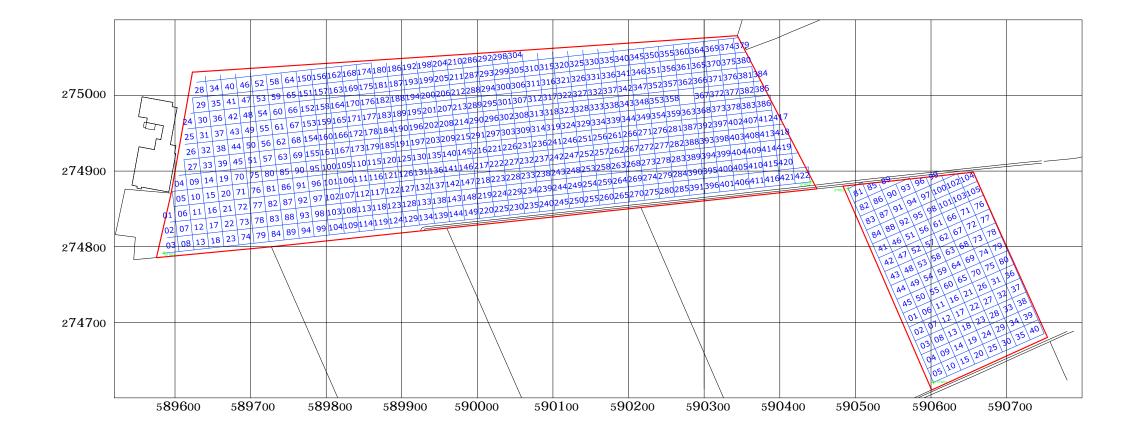




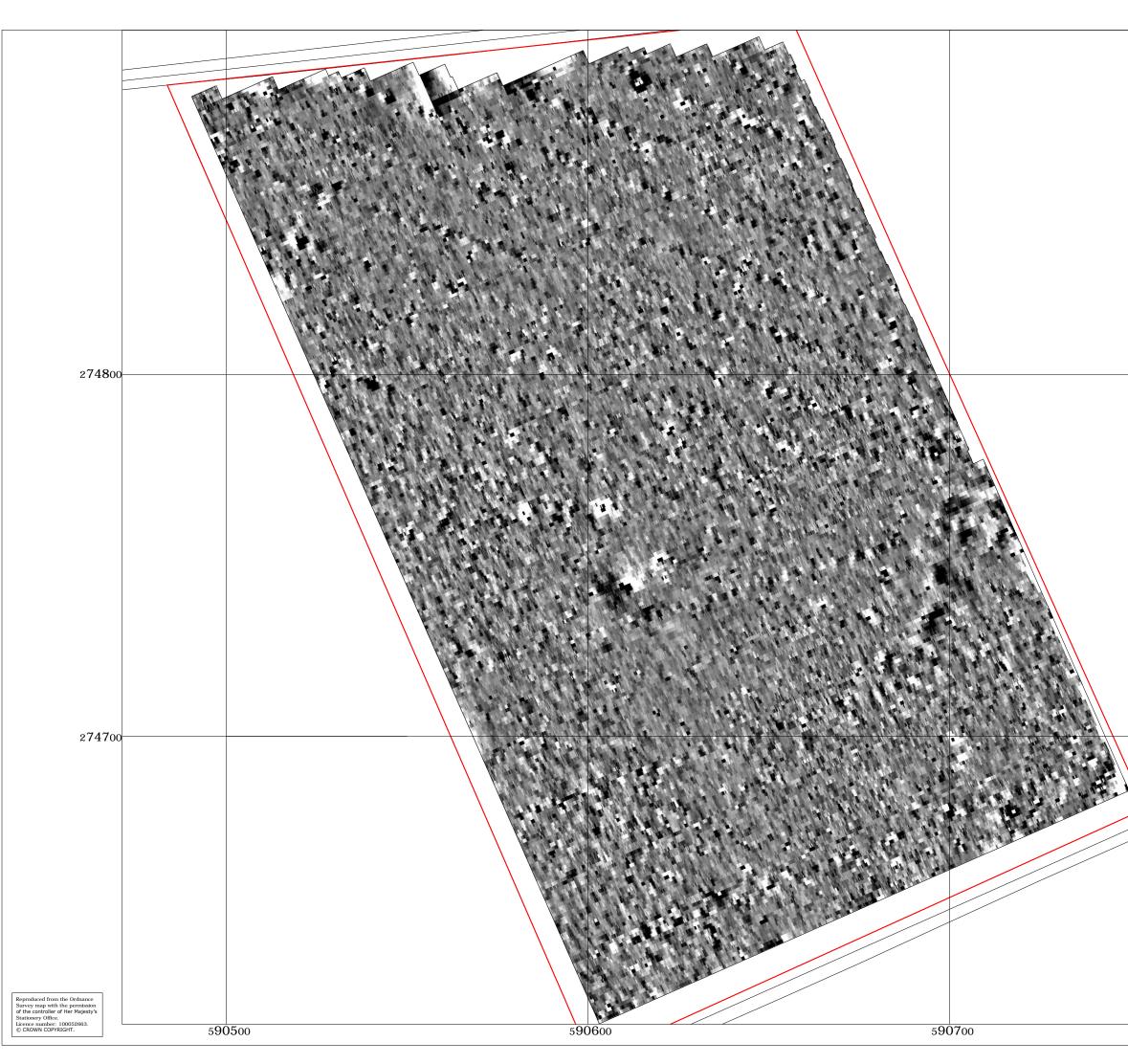


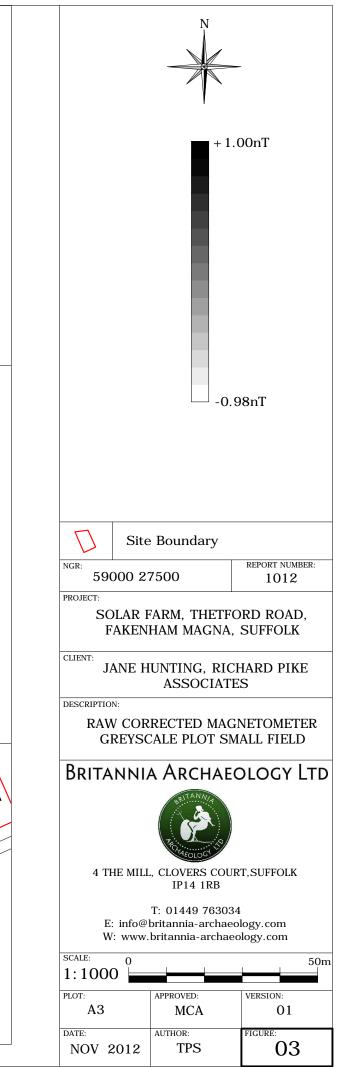
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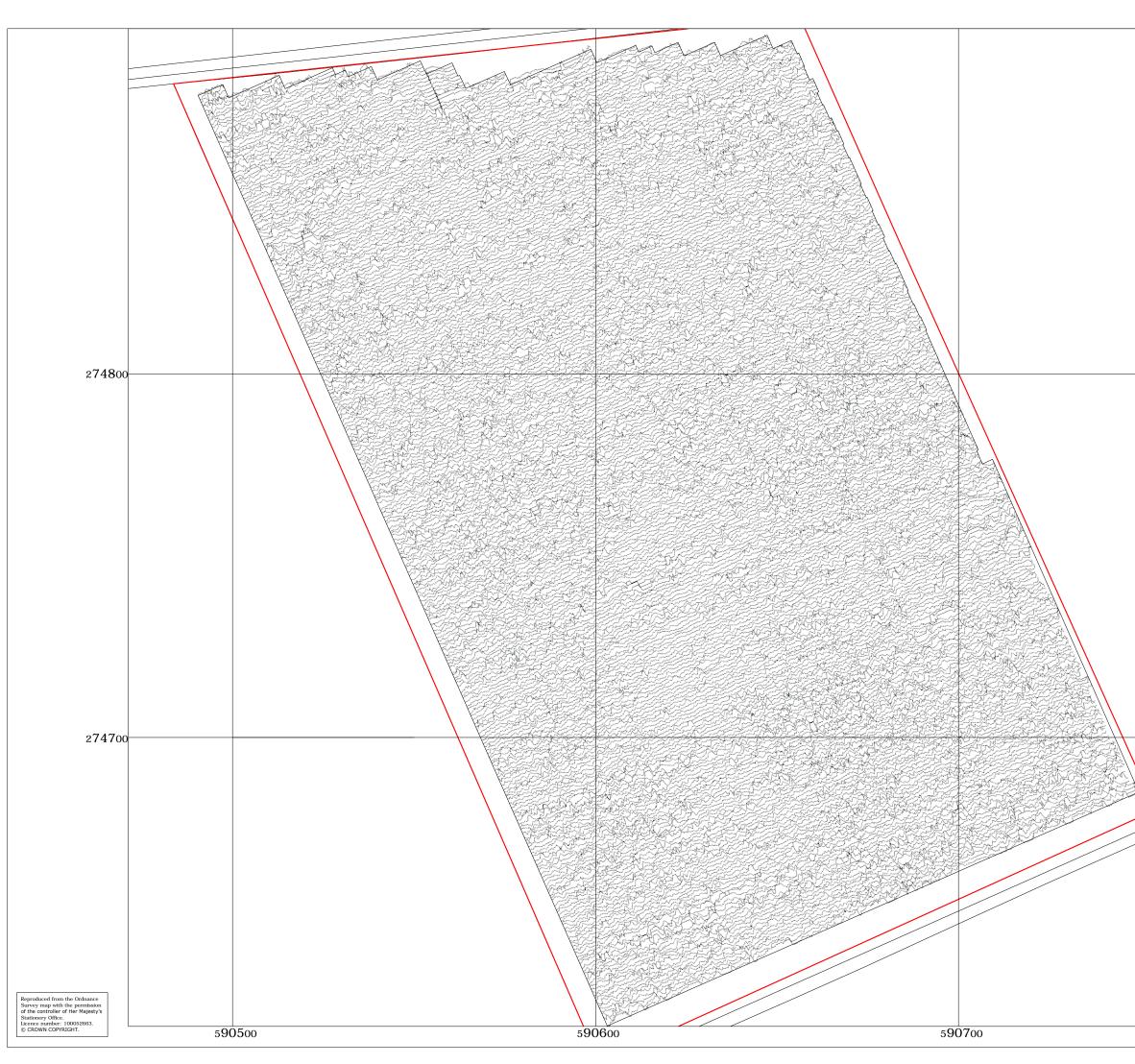
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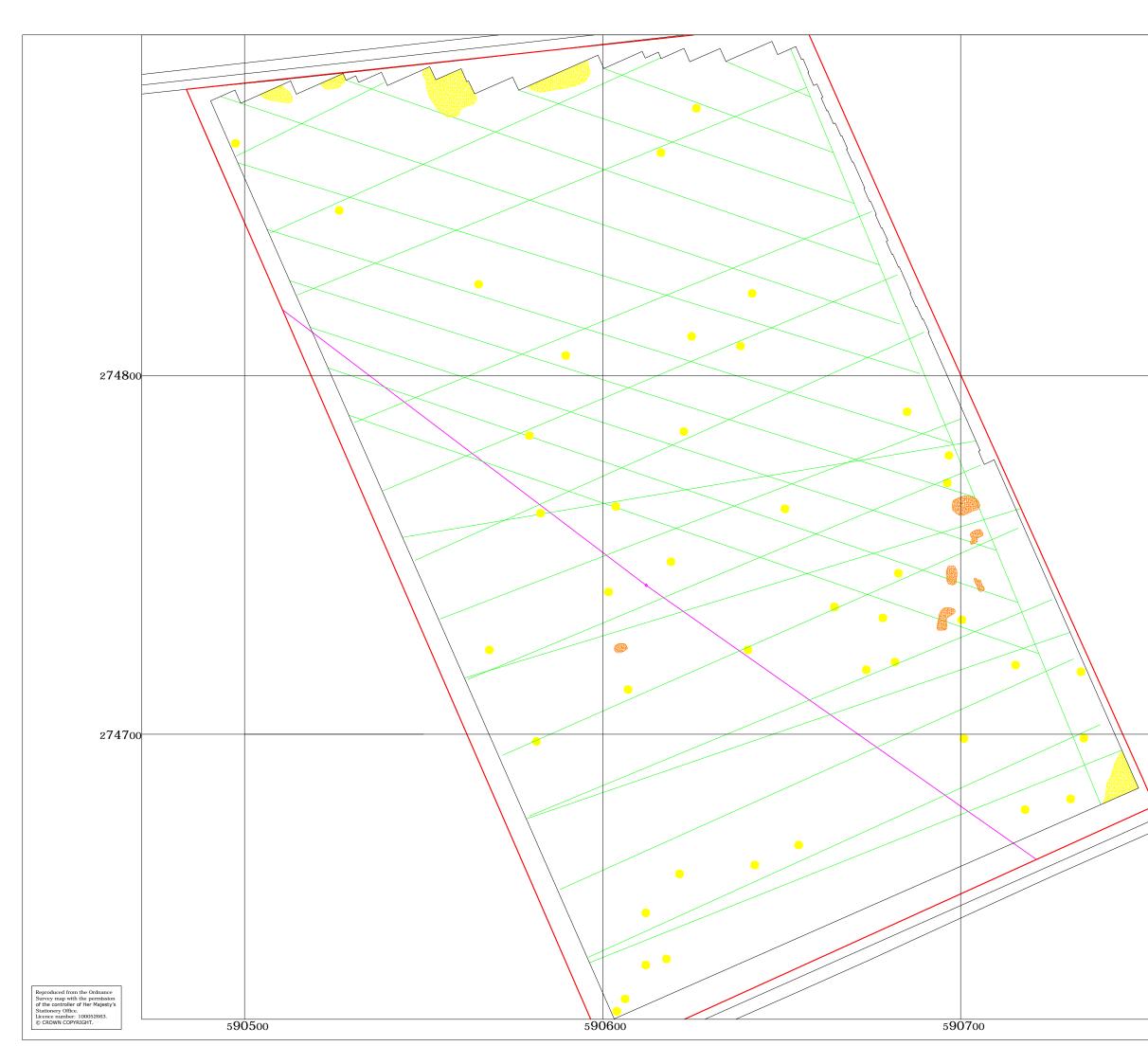
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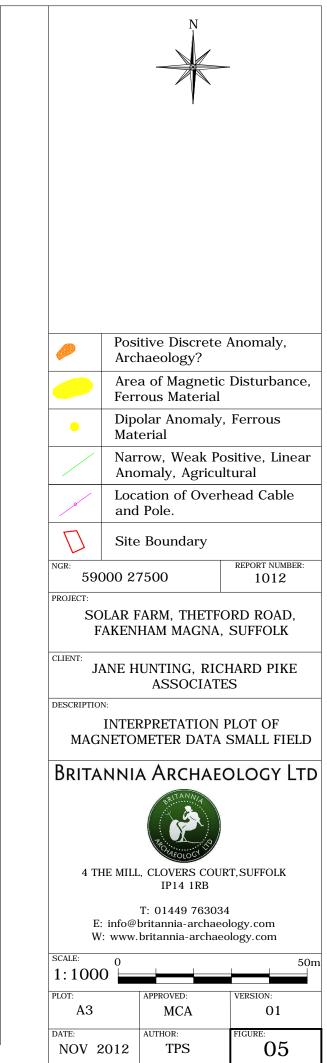


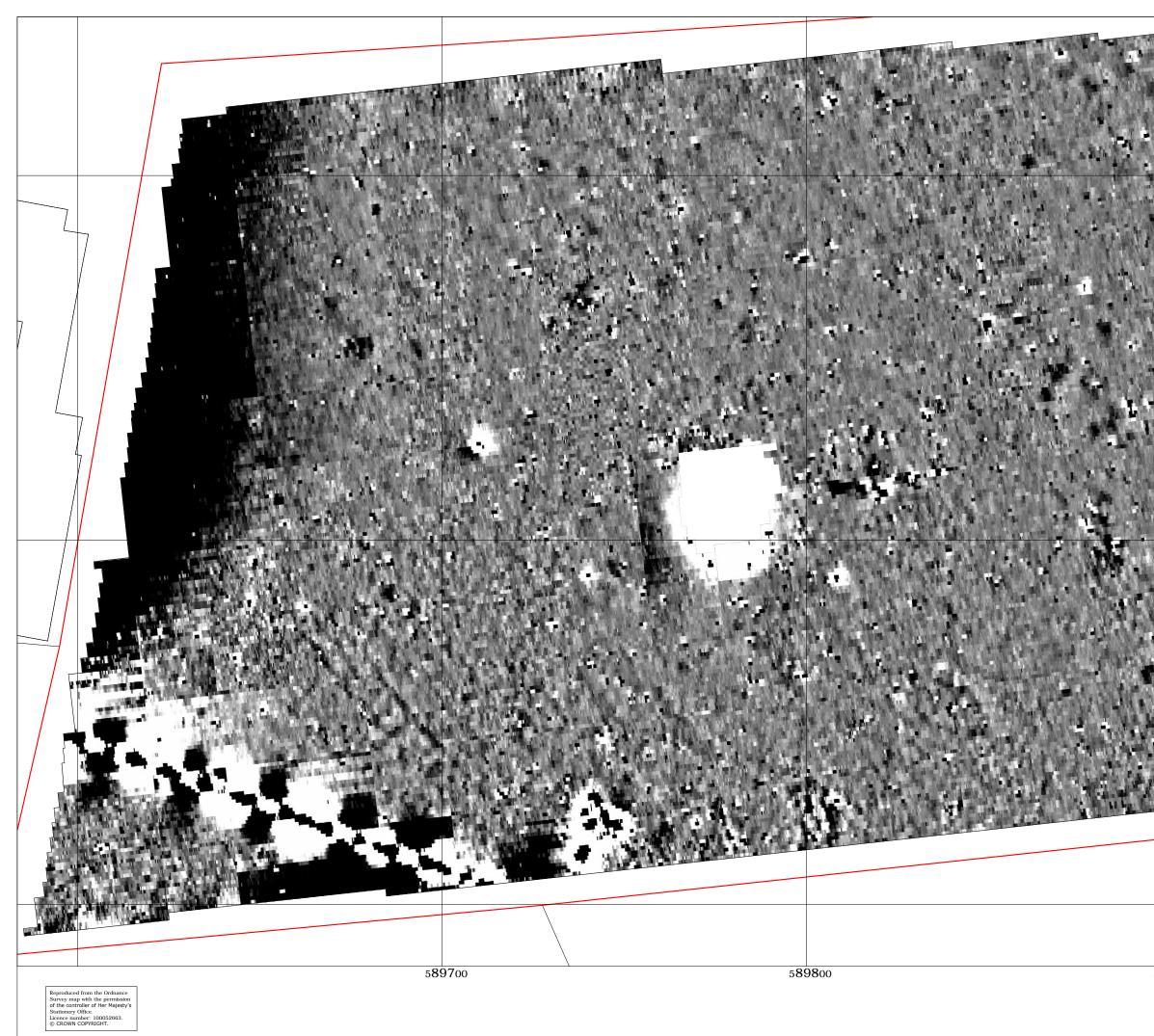




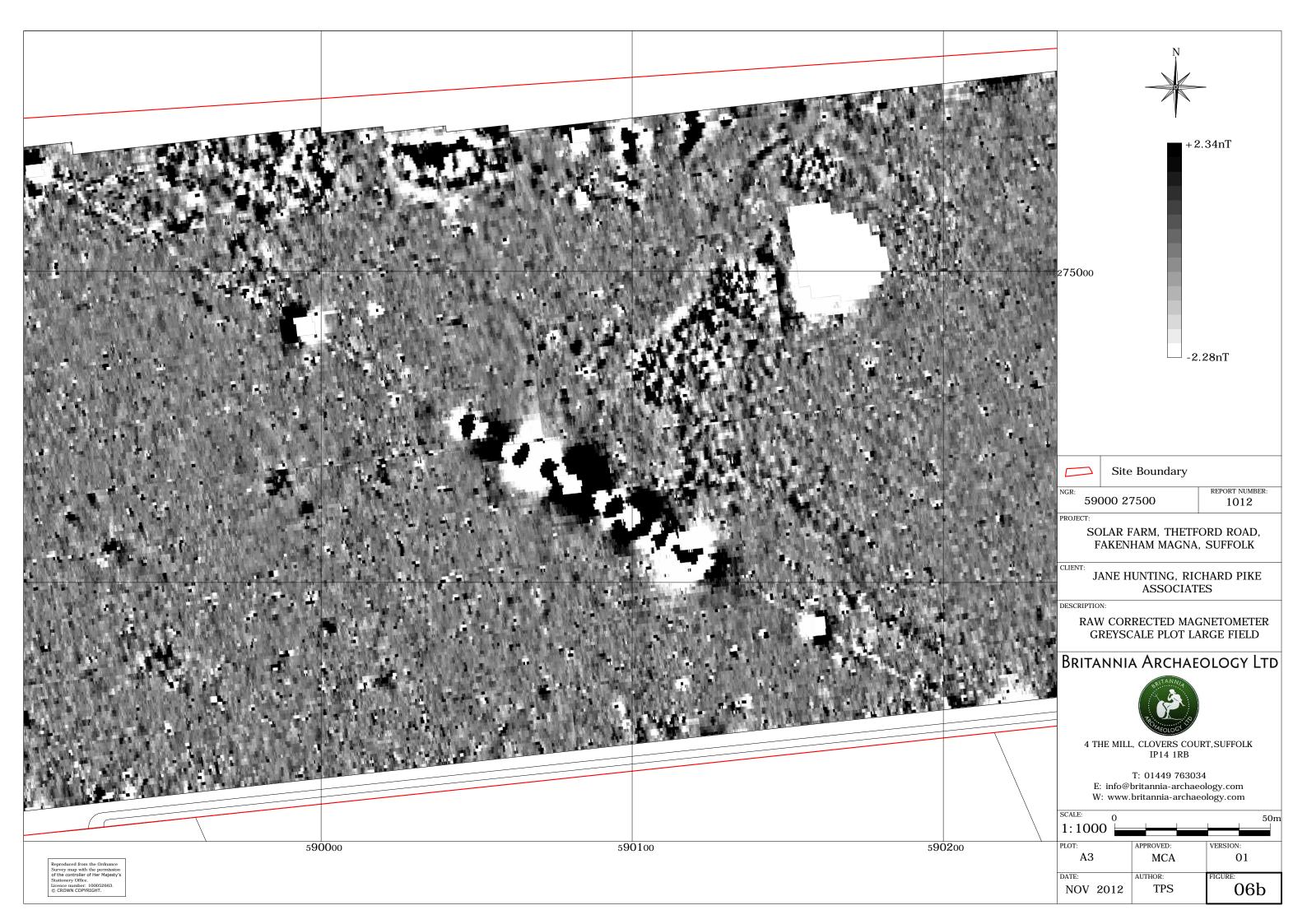
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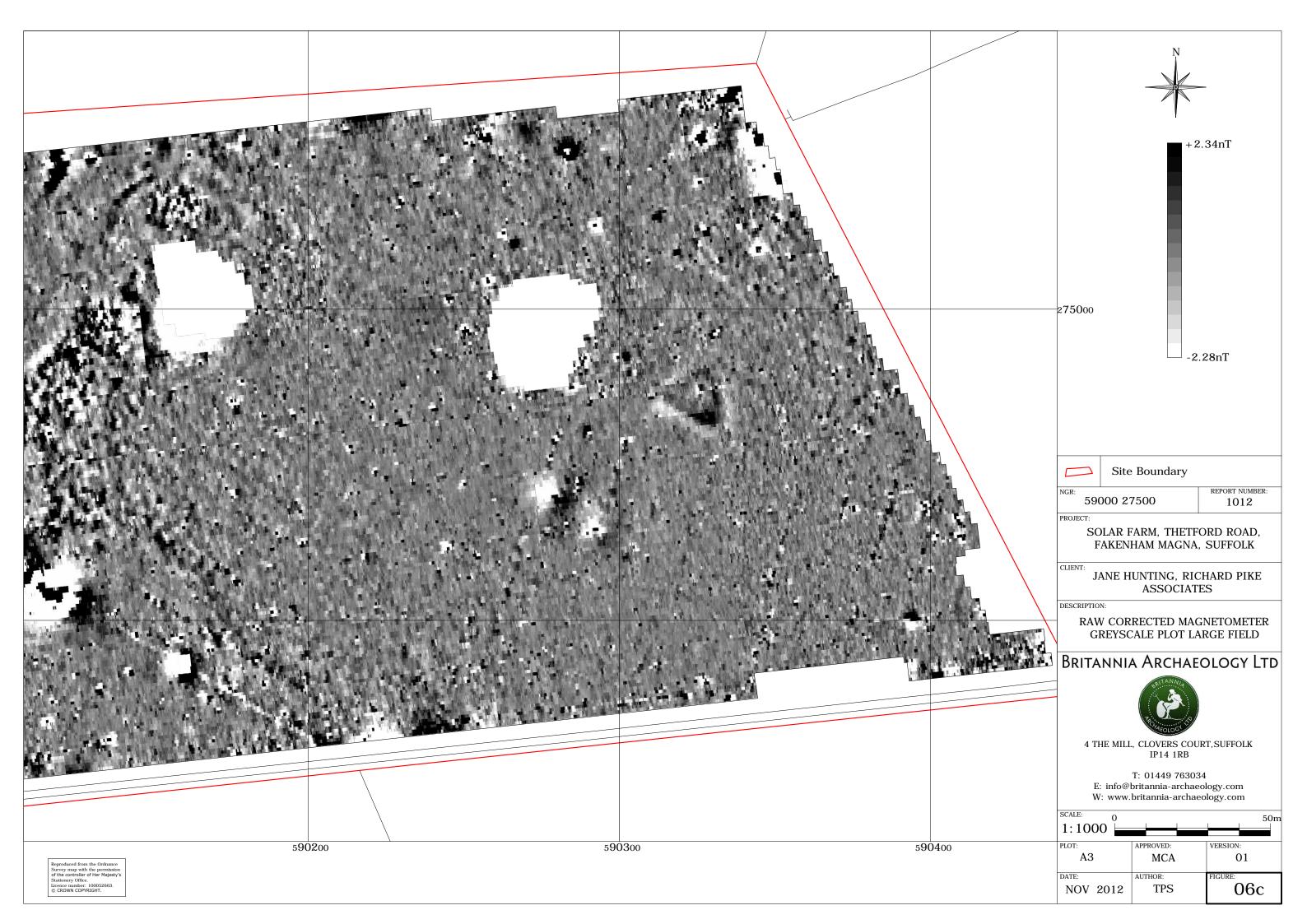


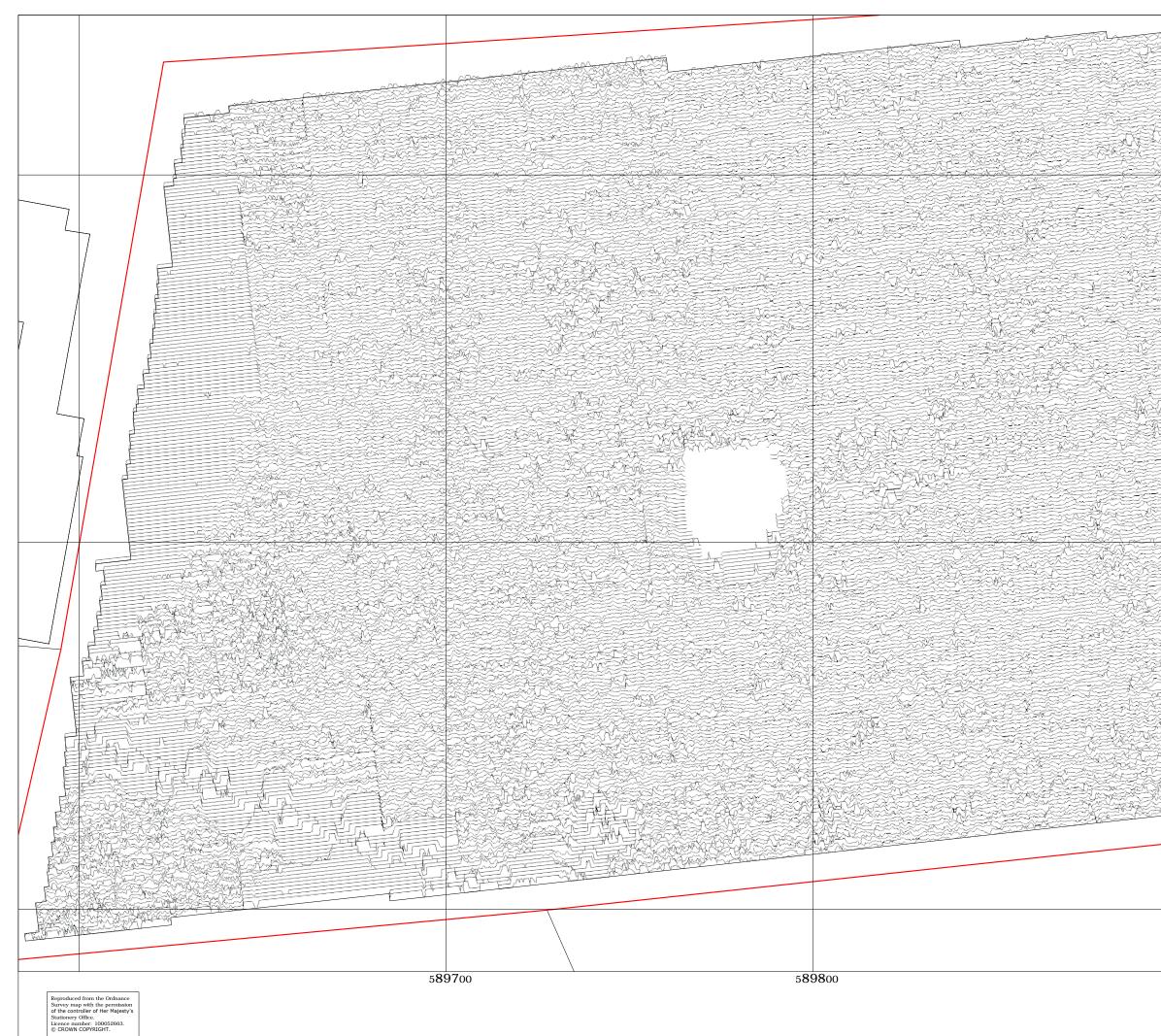




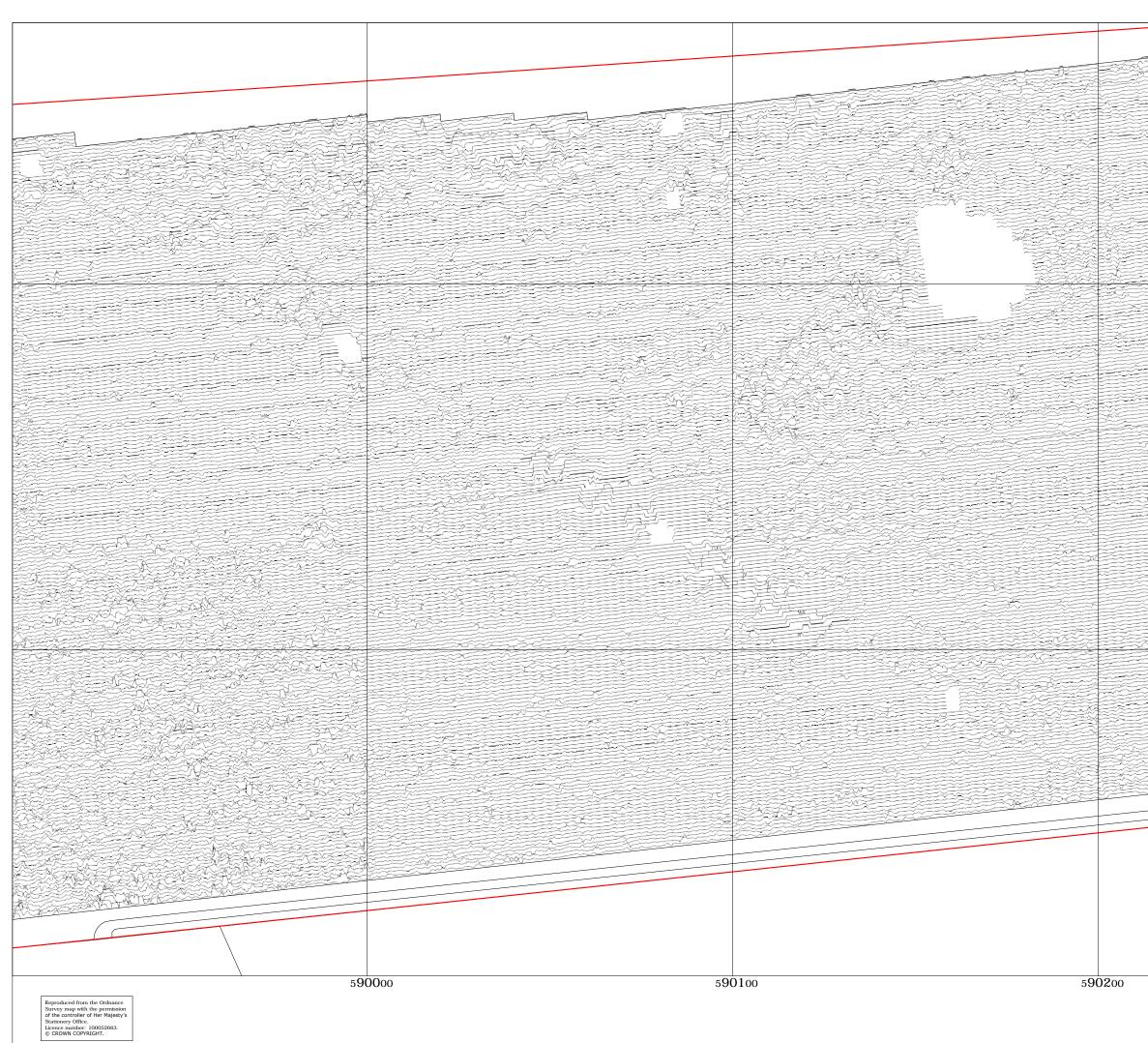
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	DATE: NOV 2012	AUTHOR: TPS	FIGURE: 06a



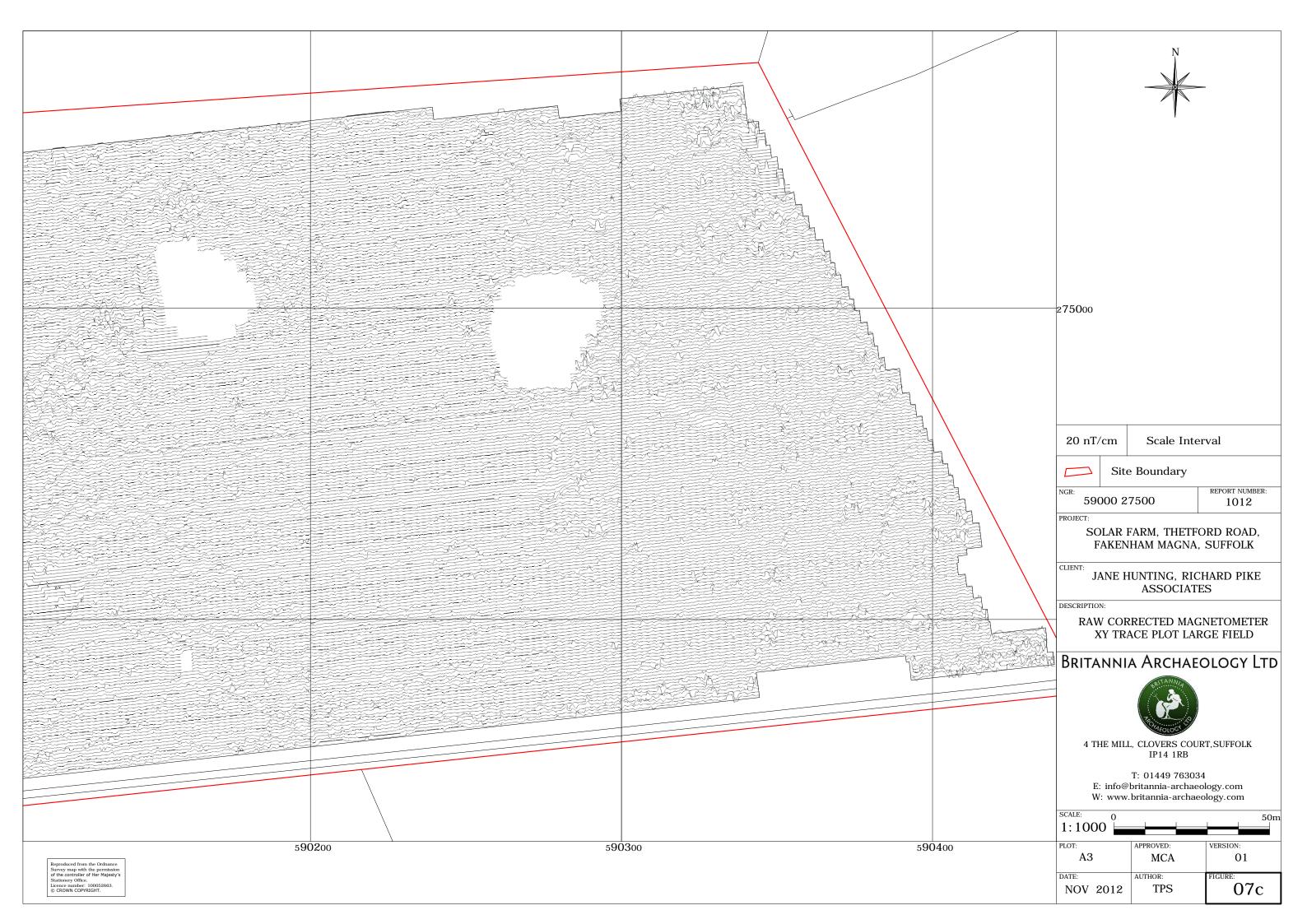


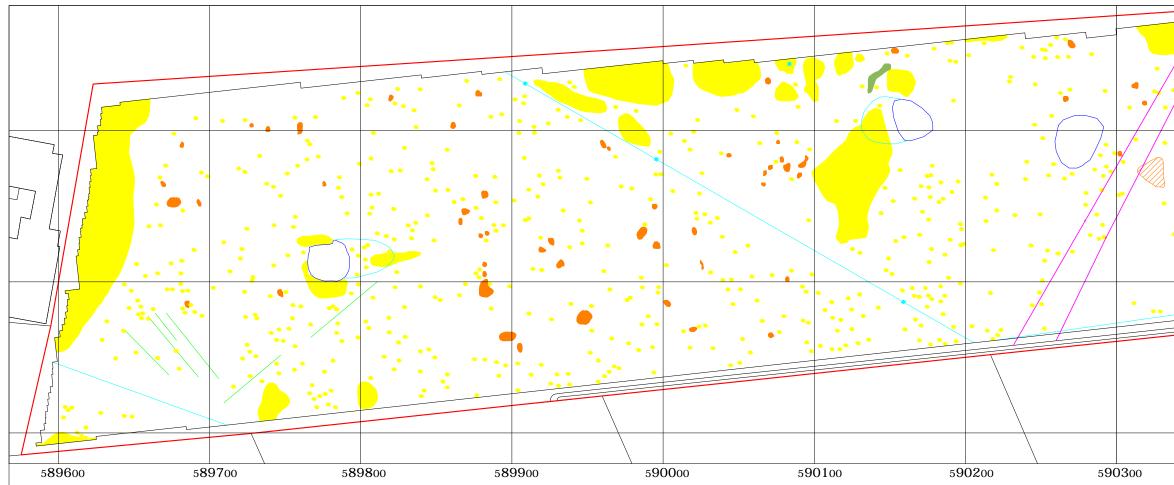


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		5900 project: SOLA FAH	AR I KEN	FARM, THETFO HAM MAGNA,	1012 DRD ROAD, SUFFOLK HARD PIKE
		5900 project: SOL/ FAH client: JAN	AR I KEN	FARM, THETFO HAM MAGNA, IUNTING, RIC	1012 DRD ROAD, SUFFOLK HARD PIKE
		5900 project: SOLA FAH	AR I KEN	FARM, THETFO HAM MAGNA, IUNTING, RIC	1012 DRD ROAD, SUFFOLK HARD PIKE
		5900 project: SOL/ FAH client: JAN	AR I KEN	FARM, THETFO HAM MAGNA, IUNTING, RIC	1012 DRD ROAD, SUFFOLK HARD PIKE
		5900 PROJECT: SOL/ FAH CLIENT: JAN DESCRIPTION:	AR I KEN IE H	FARM, THETFO HAM MAGNA, IUNTING, RIC ASSOCIATI	1012 DRD ROAD, SUFFOLK HARD PIKE ES
		5900 PROJECT: SOLA FAN CLIENT: JAN DESCRIPTION: RAW (	AR H KEN IE H	FARM, THETFO HAM MAGNA, IUNTING, RIC ASSOCIATI	1012 DRD ROAD, SUFFOLK HARD PIKE ES NETOMETER
		5900 PROJECT: SOLA FAN CLIENT: JAN DESCRIPTION: RAW (	AR H KEN IE H	FARM, THETFO HAM MAGNA, IUNTING, RIC ASSOCIATI	1012 DRD ROAD, SUFFOLK HARD PIKE ES NETOMETER
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		5900 PROJECT: SOLA FAH CLIENT: JAN DESCRIPTION: RAW ( XY BRITAN 4 THE E: ir	AR I XEN IE H COR TR/ NI/ MILL MILL	FARM, THETFO HAM MAGNA, UNTING, RIC ASSOCIATH RECTED MAG ACE PLOT LAR A ARCHAE A ARCHAE U U U U U U U U U U U U U U U U U U U	1012 DRD ROAD, SUFFOLK HARD PIKE ES NETOMETER CGE FIELD DLOGY LTD
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		5900 PROJECT: SOLA FAN CLIENT: JAN DESCRIPTION: RAW ( XY BRITAN 4 THE E: ir W: v	AR I XEN IE H COR TR/ NI/ MILI MILI nfo@	FARM, THETFO HAM MAGNA, UNTING, RIC ASSOCIATH RECTED MAG ACE PLOT LAR A ARCHAE A ARCHAE U U U U U U U U U U U U U U U U U U U	1012 DRD ROAD, SUFFOLK HARD PIKE ES NETOMETER CGE FIELD DLOGY LTD CLOGY LTD
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		5900 PROJECT: SOLA FAH CLIENT: JAN DESCRIPTION: RAW ( XY BRITAN 4 THE E: ir W: v SCALE: 1: 1000	AR I XEN IE H COR TR/ NI/ MILI MILI nfo@	FARM, THETFO HAM MAGNA, UNTING, RIC ASSOCIATH RECTED MAG ACE PLOT LAR A ARCHAE U U U CLOVERS COUL IP14 1RB T: 01449 76303 britannia-archae britannia-archae	1012 DRD ROAD, SUFFOLK HARD PIKE ES NETOMETER CGE FIELD DLOGY LTD OLOGY LTD RT, SUFFOLK 4 blogy.com 50m
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	PROJECT: SOLAR	FARM, THETFO	1012 DRD ROAD,
	PROJECT: SOLAR FAKEN	FARM, THETFO NHAM MAGNA,	1012 DRD ROAD, SUFFOLK
	PROJECT: SOLAR FAKEN	FARM, THETFO NHAM MAGNA,	1012 DRD ROAD, SUFFOLK
	PROJECT: SOLAR FAKEN	FARM, THETFO IHAM MAGNA, HUNTING, RIC	1012 ORD ROAD, SUFFOLK HARD PIKE
	PROJECT: SOLAR FAKEN	FARM, THETFO NHAM MAGNA,	1012 ORD ROAD, SUFFOLK HARD PIKE
	PROJECT: SOLAR FAKEN CLIENT: JANE H	FARM, THETFO IHAM MAGNA, HUNTING, RIC	1012 ORD ROAD, SUFFOLK HARD PIKE
	PROJECT: SOLAR FAKEN	FARM, THETFO IHAM MAGNA, HUNTING, RIC	1012 ORD ROAD, SUFFOLK HARD PIKE
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION:	FARM, THETFO IHAM MAGNA, HUNTING, RICI ASSOCIATE	1012 ORD ROAD, SUFFOLK HARD PIKE
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION:	FARM, THETFO IHAM MAGNA, HUNTING, RIC	1012 ORD ROAD, SUFFOLK HARD PIKE
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI	FARM, THETFO IHAM MAGNA, HUNTING, RICI ASSOCIATE RRECTED MAG	1012 ORD ROAD, SUFFOLK HARD PIKE S NETOMETER
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI	FARM, THETFO IHAM MAGNA, HUNTING, RICI ASSOCIATE	1012 ORD ROAD, SUFFOLK HARD PIKE S NETOMETER
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI	FARM, THETFO IHAM MAGNA, HUNTING, RICI ASSOCIATE RRECTED MAG	1012 ORD ROAD, SUFFOLK HARD PIKE S NETOMETER
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR	FARM, THETFO JHAM MAGNA, HUNTING, RICI ASSOCIATE RRECTED MAG ACE PLOT LAR	1012 ORD ROAD, SUFFOLK HARD PIKE S NETOMETER GE FIELD
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR	FARM, THETFO JHAM MAGNA, HUNTING, RICI ASSOCIATE RRECTED MAG ACE PLOT LAR	1012 ORD ROAD, SUFFOLK HARD PIKE S NETOMETER GE FIELD
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR	FARM, THETFO IHAM MAGNA, HUNTING, RICI ASSOCIATE RRECTED MAG	1012 ORD ROAD, SUFFOLK HARD PIKE S NETOMETER GE FIELD
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR	FARM, THETFO JHAM MAGNA, HUNTING, RICI ASSOCIATE RRECTED MAG ACE PLOT LAR	1012 ORD ROAD, SUFFOLK HARD PIKE S NETOMETER GE FIELD
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR	FARM, THETFO JHAM MAGNA, HUNTING, RICI ASSOCIATE RRECTED MAG ACE PLOT LAR	1012 ORD ROAD, SUFFOLK HARD PIKE S NETOMETER GE FIELD
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR	FARM, THETFO JHAM MAGNA, HUNTING, RICI ASSOCIATE RRECTED MAG ACE PLOT LAR	1012 ORD ROAD, SUFFOLK HARD PIKE S NETOMETER GE FIELD
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR	FARM, THETFO JHAM MAGNA, HUNTING, RICI ASSOCIATE RRECTED MAG ACE PLOT LAR	1012 ORD ROAD, SUFFOLK HARD PIKE S NETOMETER GE FIELD
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR	FARM, THETFO JHAM MAGNA, HUNTING, RICI ASSOCIATE RRECTED MAG ACE PLOT LAR	1012 ORD ROAD, SUFFOLK HARD PIKE S NETOMETER GE FIELD
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR	FARM, THETFO IHAM MAGNA, IUNTING, RICI ASSOCIATE RRECTED MAG ACE PLOT LAR A ARCHAEO	1012 ORD ROAD, SUFFOLK HARD PIKE S NETOMETER GE FIELD
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR	FARM, THETFO JHAM MAGNA, HUNTING, RICI ASSOCIATE RRECTED MAG ACE PLOT LAR	1012 ORD ROAD, SUFFOLK HARD PIKE S NETOMETER GE FIELD
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR BRITANNI	FARM, THETFO IHAM MAGNA, HUNTING, RICH ASSOCIATE RRECTED MAG ACE PLOT LAR A ARCHAEO	1012 DRD ROAD, SUFFOLK HARD PIKE SS NETOMETER GE FIELD DLOGY LTD
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR BRITANNI	FARM, THETFO IHAM MAGNA, IUNTING, RICI ASSOCIATE RRECTED MAG ACE PLOT LAR A ARCHAEO	1012 DRD ROAD, SUFFOLK HARD PIKE SS NETOMETER GE FIELD DLOGY LTD
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR BRITANNI	FARM, THETFO IHAM MAGNA, HUNTING, RICH ASSOCIATE RRECTED MAG ACE PLOT LAR A ARCHAEO	1012 DRD ROAD, SUFFOLK HARD PIKE SS NETOMETER GE FIELD DLOGY LTD
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR BRITANNI	FARM, THETFO IHAM MAGNA, HUNTING, RICH ASSOCIATE RRECTED MAG ACE PLOT LAR A ARCHAEO	1012 DRD ROAD, SUFFOLK HARD PIKE SS NETOMETER GE FIELD DLOGY LTD
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR BRITANNI	FARM, THETFO IHAM MAGNA, HUNTING, RICH ASSOCIATE RRECTED MAG ACE PLOT LAR A ARCHAEO	1012 DRD ROAD, SUFFOLK HARD PIKE SS NETOMETER GE FIELD DLOGY LTD
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR BRITANNI	FARM, THETFO IHAM MAGNA, HUNTING, RICH ASSOCIATE RRECTED MAG ACE PLOT LAR A ARCHAEO	1012 DRD ROAD, SUFFOLK HARD PIKE SS NETOMETER GE FIELD DLOGY LTD
	PROJECT: SOLAR FAKEN CLIENT: JANE H DESCRIPTION: RAW COI XY TR BRITANNI 4 THE MIL	FARM, THETFO IHAM MAGNA, IUNTING, RICI ASSOCIATE RECTED MAG ACE PLOT LAR A ARCHAE( UUNICAL) A ARCHAE( UUNICAL) L, CLOVERS COUF IP14 1RB T: 01449 763034	1012 DRD ROAD, SUFFOLK HARD PIKE CS NETOMETER GE FIELD DLOGY LTD
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR BRITANNI 4 THE MIL E: info@	FARM, THETFO JHAM MAGNA, UNTING, RICI ASSOCIATE REECTED MAG ACE PLOT LAR A ARCHAEC UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	1012 DRD ROAD, SUFFOLK HARD PIKE SS NETOMETER GE FIELD DLOGY LTD
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR BRITANNI 4 THE MIL E: info@	FARM, THETFO IHAM MAGNA, IUNTING, RICI ASSOCIATE RECTED MAG ACE PLOT LAR A ARCHAE( UUNICAL) A ARCHAE( UUNICAL) L, CLOVERS COUF IP14 1RB T: 01449 763034	1012 DRD ROAD, SUFFOLK HARD PIKE SS NETOMETER GE FIELD DLOGY LTD
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR BRITANNI 4 THE MIL E: info@ W: www	FARM, THETFO JHAM MAGNA, UNTING, RICI ASSOCIATE REECTED MAG ACE PLOT LAR A ARCHAEC UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	1012 DRD ROAD, SUFFOLK HARD PIKE SS NETOMETER GE FIELD DLOGY LTD
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR BRITANNI 4 THE MILL E: info@ W: www SCALE: 0	FARM, THETFO JHAM MAGNA, UNTING, RICI ASSOCIATE REECTED MAG ACE PLOT LAR A ARCHAEC UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	1012 DRD ROAD, SUFFOLK HARD PIKE SS NETOMETER GE FIELD DLOGY LTD
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR BRITANNI 4 THE MILL E: info@ W: www SCALE: 0	FARM, THETFO JHAM MAGNA, UNTING, RICI ASSOCIATE REECTED MAG ACE PLOT LAR A ARCHAEC UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	1012 DRD ROAD, SUFFOLK HARD PIKE SS NETOMETER GE FIELD DLOGY LTD PLOGY LTD PLOGY.Com
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR BRITANNI 4 THE MIL E: info@ W: www	FARM, THETFO JHAM MAGNA, UNTING, RICI ASSOCIATE REECTED MAG ACE PLOT LAR A ARCHAEC UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	1012 DRD ROAD, SUFFOLK HARD PIKE SS NETOMETER GE FIELD DLOGY LTD PLOGY LTD PLOGY.Com
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR BRITANNI BRITANNI 4 THE MIL E: info@ W: www SCALE: 1:1000	FARM, THETFO JHAM MAGNA, HUNTING, RICI ASSOCIATE RRECTED MAG ACE PLOT LAR A ARCHAEC UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	1012 DRD ROAD, SUFFOLK HARD PIKE S NETOMETER GE FIELD DLOGY LTD PLOGY LTD A blogy.com 50m
	PROJECT: SOLAR FAKEN CLIENT: JANE H DESCRIPTION: RAW COJ XY TR BRITANNI BRITANNI 4 THE MIL E: info@ W: www SCALE: 1:1000	FARM, THETFO JHAM MAGNA, HUNTING, RICI ASSOCIATE RRECTED MAG ACE PLOT LAR A ARCHAEC UL, CLOVERS COUF IP14 1RB T: 01449 763034 Poritannia-archaec	1012 DRD ROAD, SUFFOLK HARD PIKE S NETOMETER GE FIELD DLOGY LTD CLOGY LTD A blogy.com 50m VERSION:
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR BRITANNI BRITANNI 4 THE MIL E: info@ W: www SCALE: 1:1000	FARM, THETFO JHAM MAGNA, HUNTING, RICI ASSOCIATE RRECTED MAG ACE PLOT LAR A ARCHAEC UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	1012 DRD ROAD, SUFFOLK HARD PIKE S NETOMETER GE FIELD DLOGY LTD PLOGY LTD A blogy.com 50m
	PROJECT: SOLAR FAKEN CLIENT: JANE H DESCRIPTION: RAW COI XY TR BRITANNI 4 THE MIL E: info@ W: www SCALE: 1: 1000	FARM, THETFO JHAM MAGNA, UNTING, RICI ASSOCIATE REECTED MAG ACE PLOT LAR A ARCHAEC UUNTING, RICI ASSOCIATE RECTED MAG ACE PLOT LAR ACE PLOT LAR	1012 DRD ROAD, SUFFOLK HARD PIKE SS NETOMETER GE FIELD DLOGY LTD CLOGY LTD VERSION: 01
	PROJECT: SOLAR FAKEN CLIENT: JANE H DESCRIPTION: RAW COJ XY TR BRITANNI BRITANNI 4 THE MIL E: info@ W: www SCALE: 1:1000	FARM, THETFO JHAM MAGNA, UNTING, RICI ASSOCIATE RECTED MAG ACE PLOT LAR A ARCHAEC UUNTING, RICI ASSOCIATE RECTED MAG ACE PLOT LAR ACE PLOT LAR	1012 DRD ROAD, SUFFOLK HARD PIKE SS NETOMETER GE FIELD DLOGY LTD PLOGY LTD PLOGY LTD VERSION: 01 FIGURE:
	PROJECT: SOLAR FAKEN CLIENT: JANE I DESCRIPTION: RAW COI XY TR BRITANNI 4 THE MIL E: info@ W: www SCALE: 0 1: 1000	FARM, THETFO JHAM MAGNA, UNTING, RICI ASSOCIATE RECTED MAG ACE PLOT LAR A ARCHAEC UUNTING, RICI ASSOCIATE RECTED MAG ACE PLOT LAR ACE PLOT LAR	1012 DRD ROAD, SUFFOLK HARD PIKE SS NETOMETER GE FIELD DLOGY LTD PLOGY LTD PLOGY LTD VERSION: 01 FIGURE:
	PROJECT: SOLAR FAKEN CLIENT: JANE H DESCRIPTION: RAW COI XY TR BRITANNI 4 THE MIL E: info@ W: www SCALE: 1: 1000	FARM, THETFO JHAM MAGNA, UNTING, RICI ASSOCIATE REECTED MAG ACE PLOT LAR A ARCHAEC UUNTING, RICI ASSOCIATE RECTED MAG ACE PLOT LAR ACE PLOT LAR	1012 DRD ROAD, SUFFOLK HARD PIKE SS NETOMETER GE FIELD DLOGY LTD CLOGY LTD VERSION: 01





	Positive Discrete Anomaly, Archaeology?	
	Positive Area Anomaly, with Negative Margin, Archaeology?	
	Area of Magnetic Disturbance, Ferrous Material	
•	Dipolar Anomaly, Ferrous Material	
	Narrow, Weak Positive, Linear Anomaly, Agricultural	
	Broad, Curvilinear Positive Anomaly, Geology?	
	Strong, Dipolar Linear, Service Pipe & Inspection Chambers	
	Straw Bales	
	Bomb Crater, Surveyable	
	Bomb Crater, Unsurveyable	



