



BORDON GARRISON REDEVELOPMENT, HAMPSHIRE

AREA 3, PHASE A (BUDDS LANE PLAYING FIELD)
AND AREA 3, SUB-PRIORITY 3 (DALY GROUND)
GEOPHYSICAL SURVEY

commissioned by Amec Foster Wheeler

55587/001

September 2016





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project info

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PARISH Whitehill

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PROJECT SUMMARY

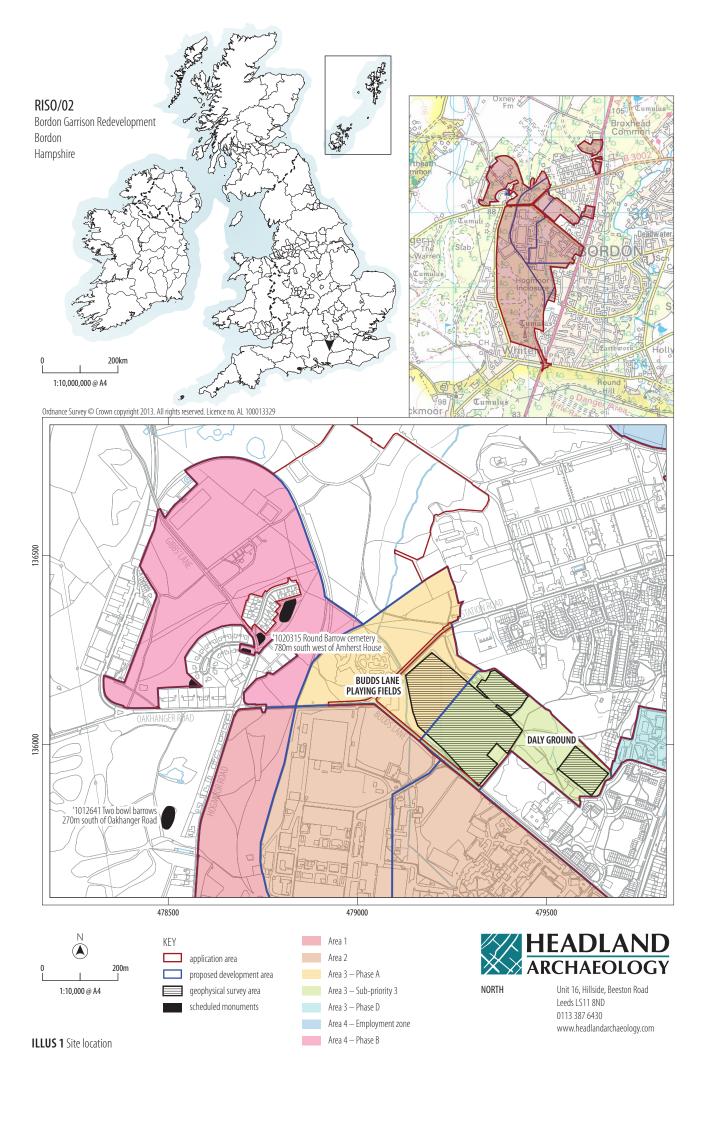
Headland Archaeology (UK) Ltd undertook a geophysical (magnetometer) survey covering 6.8 hectares in advance of the proposed redevelopment of Area 3, Phase A and Area 3, Sub-Priority 3, part of the former Bordon Garrison site in Hampshire. A segmented sub-oval anomaly is clearly identified in the south of the Area 3, Phase A site. An archaeological origin for this anomaly should not be dismissed although a more recent cause, perhaps associated with military or recreational activity, is considered equally plausible. Elsewhere the survey has identified a multitude of ferrous spike anomalies and broader areas of magnetic disturbance which are consistent with the modern use of the site. The effect of modern activity on the archaeological resource (if present) is unknown. Based on the results of the geophysical survey, the archaeological potential of the site is assessed as very low and moderate in the vicinity of the oval 'feature'.

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BORDON GARRISON REDEVELOPMENT, HAMPSHIRE

AREA 3, PHASE A (BUDDS LANE PLAYING FIELD) AND AREA 3, SUB-PRIORITY 3 (DALY GROUND) GEOPHYSICAL SURVEY

1 INTRODUCTION

Headland Archaeology (UK) Ltd was commissioned by Amec Foster Wheeler (the Client) on behalf Whitehill and Bordon Regeneration Company Limited (the Developer) to undertake a geophysical (magnetometer) survey at Bordon Garrison, Hampshire (see Illus 1). The survey will inform forthcoming archaeological strategy in advance of the proposed redevelopment of the site and the adjoining land into residential and commercial units, transport links and open space (East Hampshire District Council Planning Ref. 55587/001). This report covers Area 3, Phase A and Area 3, Sub-Priority 3, the Budds Lane Playing Fields (hereafter BLPF) and Daly Ground (hereafter DG) sites, part of the overall proposed development area (PDA), and is the second of a series of surveys being undertaken on the former military site (see also Headland Archaeology 2016a).

The work was undertaken in accordance with a Written Scheme of Investigation (Headland Archaeology 2016) which was submitted to Hampshire County Council's Historic Environment Team, with guidance contained within the National Planning Policy Framework (DCLG 2012) and in line with current best practice (English Heritage 2008).

The survey was carried out on June 15th and June 16th 2016 in order to provide information on the archaeological potential of the two Area 3 PDA's.

1.1 SITE LOCATION, TOPOGRAPHY AND LAND-USE

The overall Application Boundary comprises former Ministry of Defence land on the western side of the A325 between Bordon and Whitehall, Hampshire, centred on NGR SU 790 352. It is subdivided into several PDA's (see Illus 1). This report is concerned with the BLPF and DG areas only.

The BLPF site is centred at NGR SU 792 360. The survey area is bound to the south-west by Budds Lane, to the north-west by Station Road, to the north and north-east by mature woodland and by playing fields associated with Bordon Junior School to the south-east. It comprised of several sports pitches which were disused and under long grass at the time of survey (see Illus 2 and Illus 3). The topography slopes gently upwards from 76m aOD at Station Road to 78m aOD at the south-eastern edge of the playing fields.

The DG site is centred at NGR SU 795 359 and comprised an extant football pitch which was under short grass at the time of survey (see Illus 4). The pitch is bound by School Lane to the south and east, by woodland to the north and west and by residential properties on Haweswater Close to the north-east. The survey area is flat, being at 80m aOD.

1.2 GEOLOGY AND SOILS

The underlying bedrock comprises sandstone of the Folkestone Formation. No superficial deposits are recorded (NERC 2016).

The soils are classified in the Soilscape 14 association, characterised as freely draining very acid sandy and loamy soils (Cranfield University 2016). However, it is worth considering that, owing to recent land use (both military and sports/recreational) there is likely to be some disparity between this classification and the actual condition of the soils across the PDA's.

2 ARCHAEOLOGICAL BACKGROUND

No known archaeological remains are recorded within the geophysical survey areas. However, a Heritage Statement (AMEC 2014) for the wider PDA concluded that:







ILLUS 2 General view of Area 3, Phase A (Budds Lane Playing Fields - west), looking north ILLUS 3 General view of Area 3, Phase A (Budds Lane Playing Fields – east), looking north **ILLUS 4** General view of Area 3, Sub-Priority 3 (Daly Ground), looking east

"...there is a strong likelihood that sub-surface archaeological remains will be present within some of the application areas but not in all. Heritage assets potentially affected include Mesolithic artefact scatters and working floors, Bronze Age ritual and funerary remains and 20th century military remains, including extant structures.'

There is significant evidence for Bronze Age funerary remains 350m north-west of Budds Lane Playing Fields where a round barrow cemetery (Scheduled Monument 1020315; see Illus 1) comprising five prehistoric burial mounds is recorded. In addition a further twenty burial mounds (including another five scheduled monuments) are recorded within 2km of the application area.

AIMS, METHODOLOGY AND 3 **PRESENTATION**

The main aim of the geophysical survey was to identify and assess the nature and extent of any anomalies which may relate to subsurface features or deposits of archaeological interest within the footprint of the PDA. The survey also aimed to identify any areas of disturbance or activity which may have affected the archaeological evaluation and establish the suitability of site conditions (geology, soils etc.) and any variability within the site as evidence from the responses encountered during the survey.

The general archaeological objective of the geophysical survey was to produce a full report to include the analysis and interpretation of the survey, and to include commentary on the perceived

effectiveness of the survey in response to ground conditions. This will inform decisions regarding the nature and scope of any further scheme of archaeological works that may be required.

MAGNETOMETER SURVEY 3.1

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 is programmed to take readings at a frequency of 10Hz (allowing for a 10-15cm sample interval) on roaming traverses 4m apart. These readings are stored on an external weatherproof laptop and later downloaded for processing and interpretation. The system is 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 has been used to collect and export the data. Terrasurveyor V3.0.28.4 (DWConsulting) software has been used to process and present the Marker canes were laid out using a Trimble VRS differential Global Positioning System (Trimble GeoXR model).

3.2 REPORTING

A general site location plan is shown in Illus 1 at a scale of 1:10,000. Illus 2 - Illus 4 are general site condition photographs. Illus 5 shows the processed greyscale magnetometer data at a scale of 1:4,000, and Illus 6 shows an overall interpretation at the same scale.

Detailed data plots (greyscale and XY trace) and interpretative illustrations are presented at a scale of 1:1,250 in Illus 7 to Illus 12 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. A copy of the OASIS entry (Online Access to the Index of Archaeological Investigations) is reproduced in Appendix 4.

The survey methodology, report and any recommendations comply with the Written Scheme of Investigation (Headland Archaeology 2016) and guidelines outlined by English Heritage (English Heritage 2008) and by the Chartered Institute for Archaeologists (CIfA 2014). All illustrations reproduced from Ordnance Survey mapping are with the permission of the controller of Her Majesty's Stationery Office (Ó 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

Magnetic background

The magnetic datasets are dominated by high magnitude ferrous anomalies throughout making a confident assessment of the background magnetic contrast difficult. However, discrete areas of magnetic enhancement, as well as clearer ditch-type anomalies, have been identified against this background. These anomalies are discussed below, and cross-referenced to specific anomalies on the interpretive illustrations, where appropriate.

4.1 FERROUS AND MODERN 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 or material is common on most sites, often being present as a consequence of manuring or tipping/infilling. Across this site there is a large number of ferrous spikes throughout, often coalescing into broader areas of

magnetic disturbance. This frequency of ferrous contamination is suggestive of infilling and landscaping. Other areas of disturbance around the perimeter of the survey areas is due to ferrous material within the boundaries and by the proximity of buildings, goal posts and recreational equipment. These type of anomalies are common to both the BLPF and DG sites.

Budds Lane Playing Field (Illus 7–9)

Three large ferrous spikes (BH1-BH3) are due to capped boreholes.

Five high magnitude dipolar linear anomalies (SP1 to SP5 inclusive) recorded on various alignments across the playing fields locate buried service pipes.

Other ferrous linear anomalies are identified at the south-eastern edge of the playing (FF1 to FF5 inclusive) are thought to locate the footings of former fences.

One linear anomaly (FD1) on an east-west alignment within the southern corner of the playing fields is lower in magnitude and does not fit this pattern. This anomaly is interpreted as a drain or culvert, perhaps linking to the culverted drain recorded on the map base.

4.2 AGRICULTURAL ANOMALIES

No anomalies of agricultural origin have been identified by the geophysical survey. Analysis of historical Ordnance Survey (OS) maps indicates that the layout and division of land remained largely unchanged between the publication of the first edition OS map in 1871 and the development of Bordon Camp which is first depicted on the 1910 edition. A single small field which is first depicted within the southern corner of Budds Lane Playing Fields on the 1896 edition OS map but is removed by the 1937 edition, does not manifest as a magnetic anomaly within the data. The reason for this is not clear but it is likely that any magnetic trace of the former boundary has been completely removed by subsequent landscaping, or that the deposits within the soil-filled ditch are masked by the higher magnitude magnetic disturbance within this area.

4.3 GEOLOGICAL ANOMALIES

Discrete areas of magnetic enhancement are identified throughout the two survey areas. The low magnitude and even distribution of these anomalies suggests a geological or pedological origin. The anomalies are thought to be due to localised variations in the depth and composition of the soils, probably exacerbated by recent ground disturbance.

4.4 POSSIBLE ARCHAEOLOGICAL ANOMALIES

A clear oval anomaly (A see Illus 11-13) of uncertain origin has been identified to the south-east of BLPF, centred at NGR SU 793 360. The anomaly describes a sub-oval shape measuring 40m x 30m and is aligned north-west/south-east, oblique to the current and historical pattern of land division. Internally, the 'feature' is sub-divided into six regular cells. It is possible that the anomaly is due to an unmapped military structure or is associated with the later recreational use of the site. However, an archaeological origin, such as an enclosure, should not be dismissed.

5 CONCLUSION

The geophysical survey has successfully evaluated the survey areas and has identified an anomaly of possible archaeological potential at the Budds Lane Playing Fields site. However, a more recent cause, perhaps associated with military or recreational activity, is considered equally plausible.

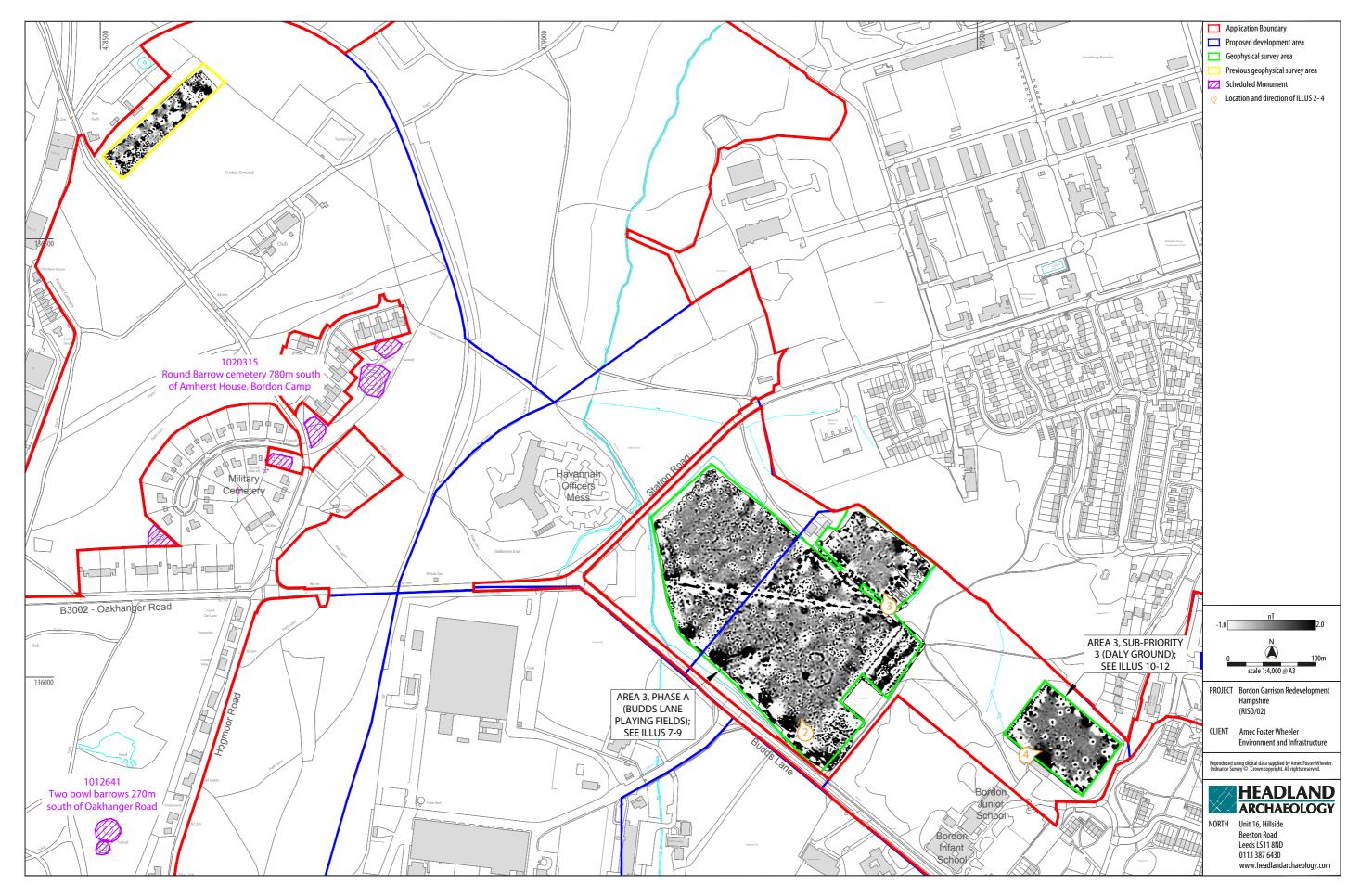
Elsewhere, the survey has detected numerous ferrous anomalies and broader areas of magnetic disturbance which are consistent with the modern use of the PDA's for recreational purposes. Broader areas of magnetic disturbance may mask or obscure weaker anomalies of archaeological potential within the affected areas. Recent activity may also have led to the truncation of archaeological deposits, if present.

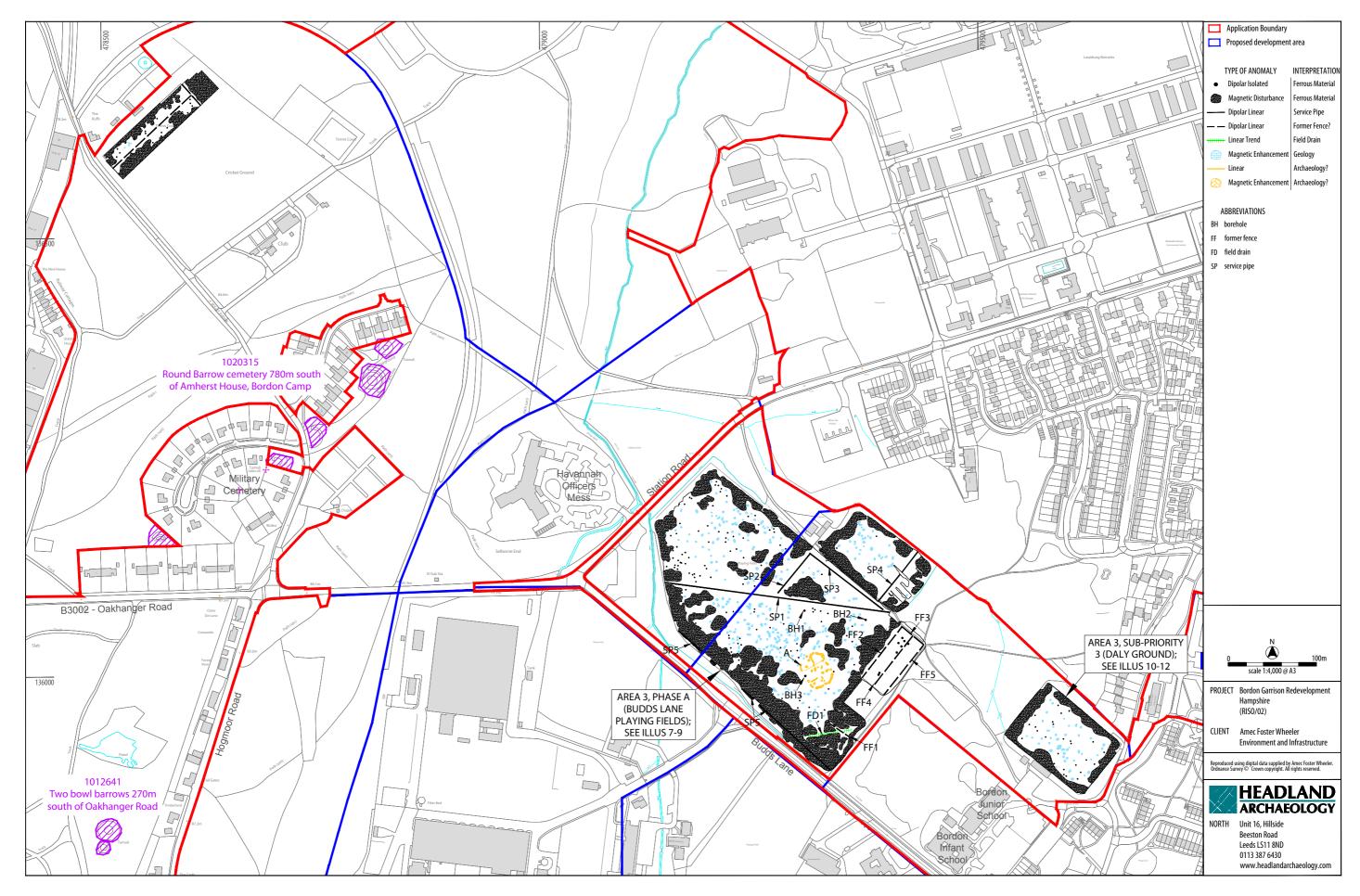
If the areas have not been truncated the survey has demonstrated that there is likely to be sufficient magnetic contrast within the soils in these two areas for buried archaeological deposits to manifest as magnetic anomalies, despite the ferrous contamination of the upper soil horizons. Overall, based solely on the results and interpretation of the geophysical data, the archaeological potential of the site is assessed as low, but moderate in the vicinity of the oval 'feature'.

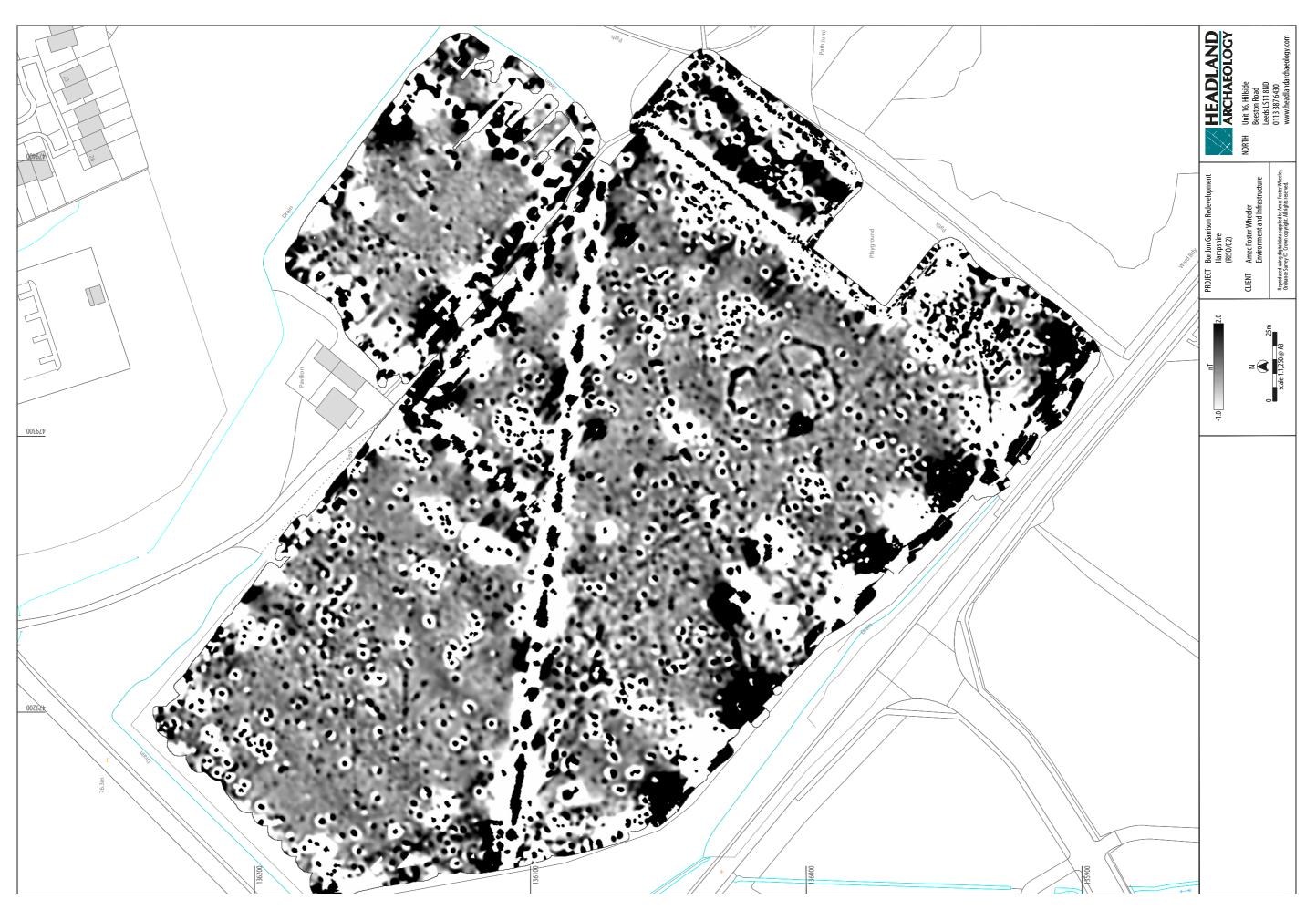
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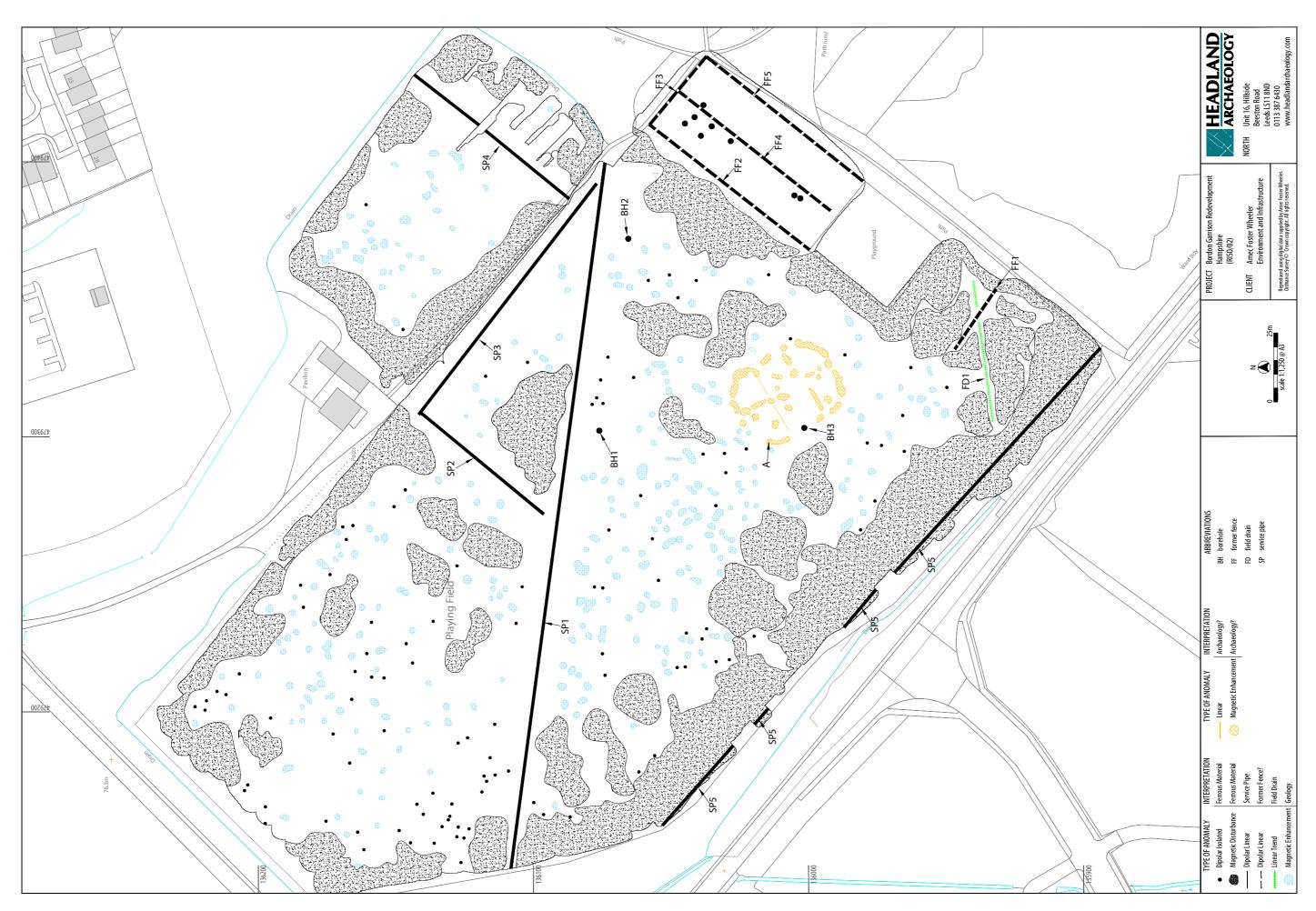






ILLUS 7 Processed greyscale magnetometer data; Area 3, Phase A (Budds Lane Playing Fields) (1:1,250)

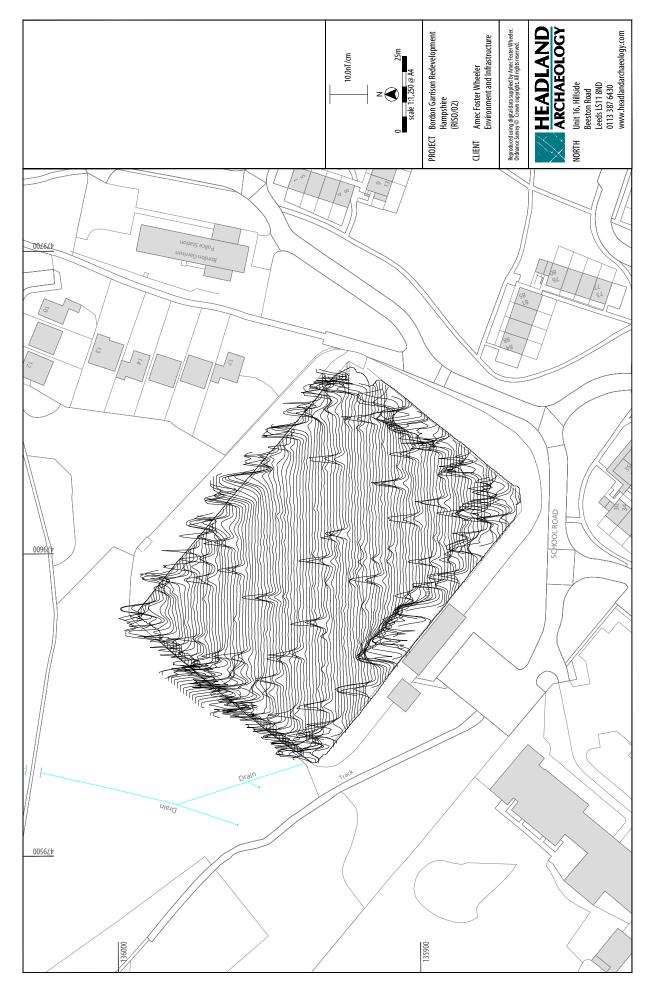
ILLUS 8 XY trace plot of magnetometer data; Area 3, Phase A (Budds Lane Playing Fields) (1:1,250



ILLUS 9 Interpretation of magnetometer data; Area 3, Phase A (Budds Lane Playing Fields) (1:1,250)

2016 by Headland Archaeology (UK) Ltd File Name: RISO-02-GeoSurRep2-v2.pdf

ILLUS 10 Processed greyscale magnetometer data; Area 3, Sub-Priority 3 (Daly Ground) (1:1,250)



ILLUS 11 XY trace plot of magnetometer data; Area 3, Sub-Priority 3 (Daly Ground) (1:1,250)

2016 by Headland Archaeology (UK) Ltd File Name: RISO-02-GeoSurRep2-v2.pdf

ILLUS 12 Interpretation of magnetometer data; Area 3, Sub-Priority 3 (Daly Ground) (1:1,250)

APPENDICES 7

MAGNETOMETER SURVEY APPFNDIX 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.

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.

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

GPS-based survey

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). The data will be stored in an indexed archive and migrated to new formats when necessary.

APPENDIX 4 OASIS DATA COLLECTION FORM: ENGLAND

OASIS ID: headland5-262116

PROJECT DETAILS

PROJECT NAMEBordon Garrison Redevelopment, Hampshire: Area 3, Phase A and Area 3, Sub-Priority 3: Geophysical Survey

SHORT DESCRIPTION OF THE PROJECT Headland Archaeology (UK) Ltd undertook a geophysical (magnetometer) survey covering 6.8 hectares in advance of the proposed redevelopment of Area 3,

Phase A and Area 3, Sub-Priority 3, part of the former Bordon Garrison site in Hampshire. A segmented sub-oval anomaly is clearly identified in the south of the Area 3, Phase A site. An archaeological origin for this anomaly should not be dismissed although a more recent cause, perhaps associated with military or recreational activity, is considered equally plausible. Elsewhere the survey has identified a multitude of ferrous spike anomalies and broader areas of magnetic disturbance which are consistent with the modern use of the site. The effect of modern activity on the archaeological resource (if present) is unknown. Based on the results of the geophysical survey, the archaeological potential of the site is assessed as very low and moderate in the vicinity of the oval feature.

PROJECT DATES Start: 15-06-2016 End: 16-06-2016

PREVIOUS/FUTUREWORK

Not known / Not known

ANY ASSOCIATED PROJECT REFERENCE CODES

RISO-02 - Contracting Unit No.

TYPE OF PROJECT Field evaluation

SITE STATUS None

CURRENT LAND USE Other 14 - Recreational usage

MONUMENTTYPE N/A None

MONUMENTTYPE N/A None

SIGNIFICANT FINDS N/A None

SIGNIFICANT FINDS N/A None

METHODS & TECHNIQUES "Geophysical Survey"

DEVELOPMENTTYPE Not recorded

PROMPT National Planning Policy Framework - NPPF

POSITION IN THE PLANNING PROCESSAfter outline determination (eg. As a reserved matter)

SOLID GEOLOGY (OTHER) Folkstone Formation – sandstone

DRIFT GEOLOGY (OTHER) None

TECHNIQUES Magnetometry

PROJECT LOCATION

COUNTRY England

SITE LOCATION HAMPSHIRE EAST HAMPSHIRE WHITEHILL Bordon Garrison Redevelopment, Hampshire: Area 3, Phase A and Area 3, Sub-Priority 3

POSTCODEGU35 0JBSTUDY AREA6.8 Hectares

SITE COORDINATES SU 7926 3591 51.116461260586 -0.867489473849 51 06 59 N 000 52 02 W Point

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PROJECT DESIGN ORIGINATOR Headland Archaeology

PROJECT DIRECTOR/MANAGER Webb, A.

PROJECT SUPERVISOR

Bishop, R

TYPE OF SPONSOR/FUNDING BODY

Developer

PROJECT ARCHIVES

PHYSICAL ARCHIVE EXISTS?

No

DIGITAL ARCHIVE EXISTS?

No

DIGITAL MEDIA AVAILABLE

"Geophysics"

PAPER ARCHIVE EXISTS?

No

PAPER MEDIA AVAILABLE

"Report"

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