

# Northamptonshire Archaeology

## Archaeological Geophysical Survey on land at Peace Hill, Bugbrooke Northamptonshire



### Northamptonshire Archaeology

2 Bolton House Wootton Hall Park Northampton NN4 8BE t. 01604 700493 f. 01604 702822 e. <u>sparry@northamptonshire.gov.uk</u> w. <u>www.northantsarchaeology.co.uk</u>

> Northamptonshire County Council



Carol Simmonds Report 11/119 May 2011

## STAFF

Project Manager:	Adrian Butler MA BSc AlfA
Fieldwork:	Carol Simmonds BA Pete Townend MA

Text and Illustrations: Carol Simmonds

## QUALITY CONTROL

	Print name	Signed	Date
Checked by	Pat Chapman	PC	31/05/2011
Verified by	Adrian Butler	AJB	31/05/2011
Approved by	Andy Chapman	AC	31/05/2011

Project name   Archaeological Geophysical Survey at Peace Hill, Bugbrooke, Northamptonshire     Short description   Northamptonshire Archaeology was commissioned by Bellway Homes to carry out a magnetometer survey on tha of land at Peace Hill, Bugbrooke, Northamptonshire. The application area has extant ridge and furrow of medieval field cultivation surviving as earthworks. A possible ditch was recorded in the southern part of the site.     Project type   Geophysical survey     Site status   None     Previous work   Cultural Heritage Technical Appraisal (Gifford 2009)     Current Land use   Pasture     Future work   Unknown     Monument type/   Medieval ridge and furrow earthworks, undated linear feature period     Site address   Peace Hill, Bugbrooke, Northamptonshire     Site address   Peace Hill, Bugbrooke, Northamptonshire     Stite address   Peace Hill, Bugbrooke, Northamptonshire     PROJECT   O     Coarty   Northamptonshire Archaeology (NA)     Project Thorif   -     Organisation   Northamptonshire Archaeology (NA)     Project Design	PROJECT	/ 1 \ 1 \ 1		
Project name     Archaeological Geophysical Survey at Peace Hill, Bugbrooke, Northamptonshire       Short description     Northamptonshire Archaeology was commissioned by Bellway Homes to carry out a magnetometer survey on tha of land at Peace Hill, Bugbrooke, Northamptonshire. The application area has extant ridge and furrow of medieval field cultivation surviving as earthworks. A possible ditch was recorded in the southern part of the site.       Project type     Geophysical survey       Site status     None       Provious work     Cultural Heritage Technical Appraisal (Gifford 2009)       Current Land use     Pasture       Future work     Unknown       Monument type/ period     Medieval ridge and furrow earthworks, undated linear feature period       Significant finds     None       PROJECT     LOCATION       County     Northamptonshire       Study area     1ha       OS Easting & Organisation     Northamptonshire Archaeology (NA)       Project Defief     -       Organisation     Northamptonshire Archaeology (NA)       Project Design     National period       Organisation     Northamptonshire Archaeology (NA)       Project Design     -       Originator     -       Director/Supervisor </td <td></td> <td></td> <td></td>				
Northamptonshire       Short description     Northamptonshire Archaeology was commissioned by Bellway Homes to carry out a magnetometer survey on 1ha of land at Peace Hill, Bugbrooke, Northamptonshire. The application area has extant ridge and furrow of medieval field cultivation surviving as earthworks. A possible dich was recorded in the southern part of the site.       Project type     Geophysical survey       Site status     None       Previous work     Cultural Heritage Technical Appraisal (Gifford 2009)       Current Land use     Pasture       Future work     Unknown       Monument type/ period     Medieval ridge and furrow earthworks, undated linear feature       Significant finds     None       PROJECT     CoCATION       County     Northamptonshire       Site address     Peace Hill, Bugbrooke, Northamptonshire       Site address     Peace Hill, Bugbrooke, Northamptonshire       Stite address     Peace Hill, Bugbrooke, Northamptonshire       So Easting &     467281 257010       Northamptonshire Archaeology (NA)     Project Drief       originator     Inorthamptonshire Archaeology (NA)       Project Drief     -       originator     Adrian Butler       Sponsor or funding     Bellway		Archaeologio	al Geophysical Survey at Peace Hill Budbrooke	
Homes to carry out a magnetometer survey on tha of land Peace     Hill, Bugbrooke, Northamptonshire. The application area has extant     ridge and furrow of medieval field cultivation surviving as earthworks.     A possible ditch was recorded in the southern part of the site.     Project type   Geophysical survey     Site status   None     Previous work   Cultural Heritage Technical Appraisal (Gifford 2009)     Current Land use   Pasture     Future work   Unknown     Monument type/   Medieval ridge and furrow earthworks, undated linear feature     period   Significant finds     None   PROJECT     LOCATION   County     Northamptonshire   Site address     Peace Hill, Bugbrooke, Northamptonshire   Site yarea     Site dadress   Peace Hill, Bugbrooke, Northamptonshire     Study area   1ha     OS Easting & 467281 257010     Northing   Project Drist     Project Drist   -     originator   Project Drist     Project Drist   -     originator   -     Director/Supervisor   Carol Simmonds     Project Drist   -	-	Northamptonshire		
Hill, Bugbrooke, Northamptonshire. The application area hase extant     ridge and furrow of medieval field cultivation surviving as earthworks.     A possible ditch was recorded in the southern part of the site.     Project type   Geophysical survey     Site status   None     Previous work   Cultural Heritage Technical Appraisal (Gifford 2009)     Current Land use   Pasture     Future work   Unknown     Monument type/   Medieval ridge and furrow earthworks, undated linear feature     period   Significant finds     None   PROJECT     LOCATION   County     Northamptonshire   Site address     Site address   Peace Hill, Bugbrooke, Northamptonshire     Study area   1ha     OS Easting &   467281 257010     Northing   Height OD     PROJECT   CREATORS     Organisation   Northamptonshire Archaeology (NA)     Project brief   -     originator   -     Project Design   NA     originator   -     Project ToArea   Adrian Butler     Sponsor or funding   Bellway Homes     pody	Short description	Northamptonshire Archaeology was commissioned by Bellway		
ridge and furrow of medieval field cultivation surviving as earthworks. A possible ditch was recorded in the southern part of the site. Project type Geophysical survey Site status None Previous work Cultural Heritage Technical Appraisal (Gifford 2009) Current Land use Pasture Future work Unknown Monument type/ Medieval ridge and furrow earthworks, undated linear feature period Significant finds None PROJECT LOCATION County Northamptonshire Site address Peace Hill, Bugbrooke, Northamptonshire Site address Peace Hill, Bugbrooke, Northamptonshire Study area 1ha OS Easting & 467281 257010 Northing Height OD 90m PROJECT CREATORS Organisation Northamptonshire Archaeology (NA) Project Design NA originator Project Design NA originator Project Design Adrian Butler Sponsor of funding Bellway Homes PROJECT DATE Start date 23/5/2011 End date 23/5/2011 End date 23/5/2011 End date 23/5/2011 End date 23/5/2011 End date 23/5/2011 End date 23/5/2011 ARCHIVES Location Content Physical Paper NA Site survey records Page numbers 10 pages text and illustrations				
A possible ditch was recorded in the southern part of the site.       Project type     Geophysical survey       Site status     None       Previous work     Cultural Heritage Technical Appraisal (Gifford 2009)       Current Land use     Pasture       Future work     Unknown       Monument type/     Medieval ridge and furrow earthworks, undated linear feature       period     Significant finds       None     PROJECT       LOCATION     County       County     Northamptonshire       Site address     Peace Hill, Bugbrooke, Northamptonshire       Site address     Peace Hill, Bugbrooke, Northamptonshire       Study area     1ha       OS Easting &     467281 257010       Northing     -       PROJECT     CREATORS       Organisation     Northamptonshire Archaeology (NA)       Project brief     -       Originator     -       Project Design     NA       originator     -       Director/Supervisor     Carol Simmonds       Project Darief     -       Sponsor or funding     Bellway Homes				
Project type     Geophysical survey       Site status     None       Previous work     Cultural Heritage Technical Appraisal (Gifford 2009)       Current Land use     Pasture       Future work     Unknown       Monument type/     Medieval ridge and furrow earthworks, undated linear feature       period     Significant finds     None       PROJECT     LOCATION     County     Northamptonshire       County     Northamptonshire     Sted address     Peace Hill, Bugbrooke, Northamptonshire       Study area     1ha     OS     Sted address     Peace Hill, Bugbrooke, Northamptonshire       Study area     1ha     OS     Sted address     Peace Hill, Bugbrooke, Northamptonshire       OS Easting & 467281 257010     Northing     Height OD     90m       PROJECT     CREATORS     Organisation     Northamptonshire Archaeology (NA)       Project brief     -     -     -       originator     Director/Supervisor     Carol Simmonds       Project Dasign     NA     -       Sponsor or funding     Bellway Homes     -       body     <				
Site status   None     Previous work   Cultural Heritage Technical Appraisal (Gifford 2009)     Current Land use   Pasture     Future work   Unknown     Monument type/   Medieval ridge and furrow earthworks, undated linear feature     period   Image: Status     Significant finds   None     PROJECT   LOCATION     County   Northamptonshire     Site address   Peace Hill, Bugbrooke, Northamptonshire     Site address   Peace Hill, Bugbrooke, Northamptonshire     Sted address   Sponsor     Organisation   Northamptonshire Archaeology (NA)     Project brief   -     originator   -     Director/Supervisor   Carol Simmonds     Project Date   -     Stat date   23				
Previous work     Cultural Heritage Technical Appraisal (Gifford 2009)       Current Land use     Pasture       Future work     Unknown       Monument type/ period     Medieval ridge and furrow earthworks, undated linear feature       Significant finds     None       PROJECT     LOCATION       County     Northamptonshire       Site address     Peace Hill, Bugbrooke, Northamptonshire       Study area     1ha       OS Easting &     467281 257010       Northing     Height OD       PROJECT     CREATORS       Organisation     Northamptonshire Archaeology (NA)       Project Drief     -       originator     -       Director/Supervisor     Carol Simmonds       Project Dasign     NA       originator     -       Director/Supervisor     Carol Simmonds       Project Dasign     NA       PROJECT DATE     -       Start date     23/5/2011       End date     23/5/2011       ARCHIVES     Location       Paper     NA       Site survey records <		Geophysical	survey	
Current Land use     Pasture       Future work     Unknown       Monument type/ period     Medieval ridge and furrow earthworks, undated linear feature       Significant finds     None       PROJECT     LOCATION       County     Northamptonshire       Site address     Peace Hill, Bugbrooke, Northamptonshire       Site address     Peace Hill, Bugbrooke, Northamptonshire       Study area     1ha       OS Easting &     467281 257010       Northing     Height OD       PROJECT     CREATORS       Organisation     Northamptonshire Archaeology (NA)       Project Design     NA       originator     Project Design       Project Design     NA       originator     Project Manager       Adrian Butler     Sponsor or funding       Body     Homes       body     PROJECT DATE       Start date     23/5/2011       End date     23/5/2011       ARCHIVES     Location       Paper     NA       Site survey records       Digital     NA				
Future work     Unknown       Monument type/ period     Medieval ridge and furrow earthworks, undated linear feature period       Significant finds     None       PROJECT LOCATION     County       County     Northamptonshire       Site address     Peace Hill, Bugbrooke, Northamptonshire       Study area     1ha       OS Easting & Morthing     467281 257010       Height OD     90m       PROJECT CREATORS     Organisation       Organisation     Northamptonshire Archaeology (NA)       Project brief originator     -       Project Design originator     -       Director/Supervisor     Carol Simmonds       Sponsor or funding     Bellway Homes       body     Bellway Homes       body     -       Project DATE     -       Start date     23/5/2011       End date     23/5/2011       ARCHIVES     Location       Paper     NA       Geophysical survey at Peace Hill, Bugbrooke, Northamptonshire       Paper     NA       Geophysical survey at Peace Hill, Bugbrooke, Northamptonshire	Previous work	Cultural Heritage Technical Appraisal (Gifford 2009)		
Monument type/ period   Medieval ridge and furrow earthworks, undated linear feature     Significant finds   None     PROJECT   LOCATION     County   Northamptonshire     Site address   Peace Hill, Bugbrooke, Northamptonshire     Site address   Peace Hill, Bugbrooke, Northamptonshire     Study area   1ha     OS Easting &   467281 257010     Northing   90m     PROJECT   CREATORS     Organisation   Northamptonshire Archaeology (NA)     Project brief   -     originator   -     Project Design   NA     originator   Organisation     Director/Supervisor   Carol Simmonds     Project Manager   Adrian Butler     Sponsor or funding   Bellway Homes     body   -     PROJECT DATE   -     Start date   23/5/2011     ARCHIVES   Location     Content   -     Physical   -     Paper   NA     Site survey records   -     Digital   NA     BIBLIOGRAPHY <td< td=""><td>Current Land use</td><td colspan="3">Pasture</td></td<>	Current Land use	Pasture		
period   Significant finds   None     PROJECT   Ina   Significant finds   Northamptonshire     County   Northamptonshire   Site address   Peace Hill, Bugbrooke, Northamptonshire     Study area   1ha   OS Easting & 467281 257010   Northing     Northing   90m   PROJECT   OREATION     Organisation   Northamptonshire Archaeology (NA)   Project brief     Project brief   -   -   -     originator   Organisation   NA   -     Director/Supervisor   Carol Simmonds   Project Manager   Adrian Butler     Sponsor or funding   Bellway Homes   -   -     body   -   -   -   -     PROJECT DATE   Start date   23/5/2011   -   -     Start date   23/5/2011   -   -   -   -     Paper   NA   Site survey records   -   -   -   -     Director/Supervisor   Content   -   -   -   -   -   -   -   -   -   -   -   -   -	Future work	Unknown		
period   Significant finds   None     PROJECT   LOCATION     County   Northamptonshire     Site address   Peace Hill, Bugbrooke, Northamptonshire     Study area   1ha     OS Easting &   467281 257010     Northing   -     Height OD   90m     PROJECT   CREATORS     Organisation   Northamptonshire Archaeology (NA)     Project brief   -     originator   -     Project Design   NA     originator   -     Director/Supervisor   Carol Simmonds     Project Manager   Adrian Butler     Sponsor or funding   Bellway Homes     body   -     PROJECT DATE   -     Start date   23/5/2011     End date   23/5/2011     ARCHIVES   Location     Digital   NA     Geophysical survey & GIS data     BIBLIOGRAPHY   Journal/monograph, published or forthcoming, or unpublished client report     Title   Archaeological Geophysical Survey at Peace Hill, Bugbrooke, Northamptonshire     Serial title & volume	Monument type/			
PROJECT   LOCATION     County   Northamptonshire     Site address   Peace Hill, Bugbrooke, Northamptonshire     Study area   1ha     OS Easting &   467281 257010     Northing   90m     PROJECT   CREATORS     Organisation   Northamptonshire Archaeology (NA)     Project Design   NA     originator   Project Design     Project Design   NA     originator   Sellway Homes     body   PROJECT Carol Simmonds     Project Dasign   NA     originator   Bellway Homes     body   PROJECT DATE     Start date   23/5/2011     End date   23/5/2011     ARCHIVES   Location     Location   Content     Physical   Paper     Paper   NA     Site survey records   Digital     BIBLIOGRAPHY   Journal/monograph, published or forthcoming, or unpublished client report     Title   Archaeological Geophysical Survey at Peace Hill, Bugbrooke, Northamptonshire     Serial title & volume   NA report 11/119     Author(s)	period	-		
LOCATION     County   Northamptonshire     Site address   Peace Hill, Bugbrooke, Northamptonshire     Study area   1ha     OS Easting &   467281 257010     Northing		None		
County     Northamptonshire       Site address     Peace Hill, Bugbrooke, Northamptonshire       Study area     1ha       OS Easting &     467281 257010       Northing     90m       Height OD     90m       PROJECT     CREATORS       Organisation     Northamptonshire Archaeology (NA)       Project brief     -       originator     -       Project Design     NA       originator     Carol Simmonds       Project Manager     Adrian Butler       Sponsor or funding     Bellway Homes       body     PROJECT DATE       Start date     23/5/2011       End date     23/5/2011       ARCHIVES     Location       Paper     NA       Site survey records       Digital     NA       Geophysical survey & GIS data       BIBLIOGRAPHY     Journal/monograph, published or forthcoming, or unpublished client report       Title     Archaeological Geophysical Survey at Peace Hill, Bugbrooke, Northamptonshire       Serial title & volume     NA report 11/119       Author(s)     C Si				
Site address   Peace Hill, Bugbrooke, Northamptonshire     Study area   1ha     OS Easting &   467281 257010     Northing	LOCATION			
Study area   1ha     OS Easting &   467281 257010     Northing   467281 257010     Height OD   90m     PROJECT   Organisation     Organisation   Northamptonshire Archaeology (NA)     Project brief   -     originator   -     Director/Supervisor   Carol Simmonds     Project Manager   Adrian Butler     Sponsor or funding   Bellway Homes     body   -     PROJECT DATE   -     Start date   23/5/2011     End date   23/5/2011     ARCHIVES   Location     Paper   NA     Site survey records   Digital     Digital   NA     BIBLIOGRAPHY   Journal/monograph, published or forthcoming, or unpublished client report     Title   Archaeological Geophysical Survey at Peace Hill, Bugbrooke, Northamptonshire     Serial title & volume   NA report 11/119     Author(s)   C Simmonds     Page numbers   10 pages text and illustrations	County	Northamptonshire		
OS Éasting &   467281 257010     Northing   90m     PROJECT   CREATORS     Organisation   Northamptonshire Archaeology (NA)     Project brief   -     originator   -     Project Design   NA     originator   -     Director/Supervisor   Carol Simmonds     Project Manager   Adrian Butler     Sponsor or funding   Bellway Homes     body   -     PROJECT DATE   -     Start date   23/5/2011     ARCHIVES   Location     Content   -     Physical   -     Paper   NA     Digital   NA     BIBLIOGRAPHY   Journal/monograph, published or forthcoming, or unpublished client report     Title   Archaeological Geophysical Survey at Peace Hill, Bugbrooke, Northamptonshire     Serial title & volume   NA report 11/119     Author(s)   C Simmonds     Page numbers   10 pages text and illustrations	Site address			
Northing   Height OD   90m     PROJECT   CREATORS   Organisation   Northamptonshire Archaeology (NA)     Project brief   -   -   -     originator   -   -   -     Project Design   NA   -   -     originator   -   -   -     Project Design   NA   -   -     originator   -   -   -     Director/Supervisor   Carol Simmonds   -   -     Sponsor or funding   Bellway Homes   -   -     body   -   -   -   -     PROJECT DATE   -   -   -   -     Start date   23/5/2011   -   -   -     End date   23/5/2011   -   -   -     ARCHIVES   Location   Content   -   -     Paper   NA   Site survey records   -   -     Digital   NA   Geophysical survey & GIS data   -   -     BIBLIOGRAPHY   Journal/monograph, published or forthcoming, or unpublished client report	Study area	1ha		
Height OD   90m     PROJECT   CREATORS     Organisation   Northamptonshire Archaeology (NA)     Project brief   -     originator   -     Director/Supervisor   Carol Simmonds     Project Manager   Adrian Butler     Sponsor or funding   Bellway Homes     body   -     PROJECT DATE   -     Start date   23/5/2011     End date   23/5/2011     ARCHIVES   Location     Paper   NA     Site survey records     Digital   NA     BIBLIOGRAPHY   Journal/monograph, published or forthcoming, or unpublished client report     Title   Archaeological Geophysical Survey at Peace Hill, Bugbrooke, Northamptonshire     Serial title & volume   NA report 11/119     Author(s)   C Simmonds     Page numbers   10 pages text and illustrations	OS Easting &	467281 257010		
PROJECT     CREATORS     Organisation   Northamptonshire Archaeology (NA)     Project brief   -     originator   -     Director/Supervisor   Carol Simmonds     Project Manager   Adrian Butler     Sponsor or funding   Bellway Homes     body   -     PROJECT DATE   -     Start date   23/5/2011     Archaeological Content   -     Physical   -     Paper   NA     Digital   NA     BIBLIOGRAPHY   Journal/monograph, published or forthcoming, or unpublished client report     Title   Archaeological Geophysical Survey at Peace Hill, Bugbrooke, Northamptonshire     Serial title & volume   NA report 11/119     Author(s)   C Simmonds	Northing			
CREATORS     Organisation   Northamptonshire Archaeology (NA)     Project brief   -     originator   -     Project Design   NA     originator   -     Director/Supervisor   Carol Simmonds     Project Manager   Adrian Butler     Sponsor or funding   Bellway Homes     body   -     PROJECT DATE   -     Start date   23/5/2011     End date   23/5/2011     ARCHIVES   Location     Physical   -     Paper   NA     Site survey records   -     Digital   NA     BIBLIOGRAPHY   Journal/monograph, published or forthcoming, or unpublished client report     Title   Archaeological Geophysical Survey at Peace Hill, Bugbrooke, Northamptonshire     Serial title & volume   NA report 11/119     Author(s)   C Simmonds     Page numbers   10 pages text and illustrations	Height OD	90m		
Organisation   Northamptonshire Archaeology (NA)     Project brief   -     originator   -     Project Design   NA     originator   NA     Director/Supervisor   Carol Simmonds     Project Manager   Adrian Butler     Sponsor or funding   Bellway Homes     body   Bellway Homes     Start date   23/5/2011     End date   23/5/2011     ARCHIVES   Location     Paper   NA     Site survey records     Digital   NA     BIBLIOGRAPHY   Journal/monograph, published or forthcoming, or unpublished client report     Title   Archaeological Geophysical Survey at Peace Hill, Bugbrooke, Northamptonshire     Serial title & volume   NA report 11/119     Author(s)   C Simmonds     Page numbers   10 pages text and illustrations				
Project brief originator   -     Project Design originator   NA     Director/Supervisor   Carol Simmonds     Project Manager   Adrian Butler     Sponsor or funding body   Bellway Homes     PROJECT DATE	CREATORS			
originator   NA     Project Design originator   NA     Director/Supervisor   Carol Simmonds     Project Manager   Adrian Butler     Sponsor or funding body   Bellway Homes     PROJECT DATE		Northamptonshire Archaeology (NA)		
Project Design originator   NA     Director/Supervisor   Carol Simmonds     Project Manager   Adrian Butler     Sponsor or funding body   Bellway Homes     PROJECT DATE   Start date     Start date   23/5/2011     End date   23/5/2011     ARCHIVES   Location     Physical   Paper     Digital   NA     BIBLIOGRAPHY   Journal/monograph, published or forthcoming, or unpublished client report     Title   Archaeological Geophysical Survey at Peace Hill, Bugbrooke, Northamptonshire     Serial title & volume   NA report 11/119     Author(s)   C Simmonds     Page numbers   10 pages text and illustrations		-		
originatorCarol SimmondsDirector/SupervisorCarol SimmondsProject ManagerAdrian ButlerSponsor or funding bodyBellway HomesPROJECT DATE				
Director/Supervisor   Carol Simmonds     Project Manager   Adrian Butler     Sponsor or funding   Bellway Homes     body   Bellway Homes     PROJECT DATE   Start date     Start date   23/5/2011     End date   23/5/2011     ARCHIVES   Location   Content     Physical   Paper   NA     Site survey records   Digital   NA     BIBLIOGRAPHY   Journal/monograph, published or forthcoming, or unpublished client report     Title   Archaeological Geophysical Survey at Peace Hill, Bugbrooke, Northamptonshire     Serial title & volume   NA report 11/119     Author(s)   C Simmonds     Page numbers   10 pages text and illustrations		NA		
Project Manager   Adrian Butler     Sponsor or funding body   Bellway Homes     PROJECT DATE	¥			
Sponsor or funding body   Bellway Homes     PROJECT DATE				
body   Image: start date     Start date   23/5/2011     End date   23/5/2011     ARCHIVES   Location   Content     Physical   Image: start date   Image: start date     Paper   NA   Site survey records     Digital   NA   Geophysical survey & GIS data     BIBLIOGRAPHY   Journal/monograph, published or forthcoming, or unpublished client report     Title   Archaeological Geophysical Survey at Peace Hill, Bugbrooke, Northamptonshire     Serial title & volume   NA report 11/119     Author(s)   C Simmonds     Page numbers   10 pages text and illustrations				
PROJECT DATE     Start date   23/5/2011     End date   23/5/2011     ARCHIVES   Location   Content     Physical		Bellway Homes		
Start date   23/5/2011     End date   23/5/2011     ARCHIVES   Location   Content     Physical				
End date   23/5/2011     ARCHIVES   Location   Content     Physical				
ARCHIVES   Location   Content     Physical   Paper   NA   Site survey records     Digital   NA   Geophysical survey & GIS data     BIBLIOGRAPHY   Journal/monograph, published or forthcoming, or unpublished client report     Title   Archaeological Geophysical Survey at Peace Hill, Bugbrooke, Northamptonshire     Serial title & volume   NA report 11/119     Author(s)   C Simmonds     Page numbers   10 pages text and illustrations				
Physical   NA   Site survey records     Digital   NA   Geophysical survey & GIS data     BIBLIOGRAPHY   Journal/monograph, published or forthcoming, or unpublished client report     Title   Archaeological Geophysical Survey at Peace Hill, Bugbrooke, Northamptonshire     Serial title & volume   NA report 11/119     Author(s)   C Simmonds     Page numbers   10 pages text and illustrations				
Paper   NA   Site survey records     Digital   NA   Geophysical survey & GIS data     BIBLIOGRAPHY   Journal/monograph, published or forthcoming, or unpublished client report     Title   Archaeological Geophysical Survey at Peace Hill, Bugbrooke, Northamptonshire     Serial title & volume   NA report 11/119     Author(s)   C Simmonds     Page numbers   10 pages text and illustrations		Location	Content	
Digital     NA     Geophysical survey & GIS data       BIBLIOGRAPHY     Journal/monograph, published or forthcoming, or unpublished client report       Title     Archaeological Geophysical Survey at Peace Hill, Bugbrooke, Northamptonshire       Serial title & volume     NA report 11/119       Author(s)     C Simmonds       Page numbers     10 pages text and illustrations				
BIBLIOGRAPHY   Journal/monograph, published or forthcoming, or unpublished client report     Title   Archaeological Geophysical Survey at Peace Hill, Bugbrooke, Northamptonshire     Serial title & volume   NA report 11/119     Author(s)   C Simmonds     Page numbers   10 pages text and illustrations				
report   Title Archaeological Geophysical Survey at Peace Hill, Bugbrooke, Northamptonshire   Serial title & volume NA report 11/119   Author(s) C Simmonds   Page numbers 10 pages text and illustrations				
Title   Archaeological Geophysical Survey at Peace Hill, Bugbrooke, Northamptonshire     Serial title & volume   NA report 11/119     Author(s)   C Simmonds     Page numbers   10 pages text and illustrations	BIBLIOGRAPHY			
Northamptonshire       Serial title & volume     NA report 11/119       Author(s)     C Simmonds       Page numbers     10 pages text and illustrations	Title	Archaeological Geophysical Survey at Peace Hill, Bugbrooke,		
Serial title & volumeNA report 11/119Author(s)C SimmondsPage numbers10 pages text and illustrations				
Page numbers 10 pages text and illustrations	Serial title & volume			
Date 24/5/2011	Page numbers			
	Date	24/5/2011		

#### OASIS REPORT FORM

## Contents

- 1 INTRODUCTION
- 2 BACKGROUND
- 3 METHODOLOGY
- 4 SURVEY RESULTS
- 5 CONCLUSION

BIBLIOGRAPHY

### Figures

- Fig 1 Site Location; 1:17,500
- Fig 2 Magnetometer Survey Results; 1:2,000
- Fig 3 Magnetometer Survey Interpretation; 1:2,000
- Fig 4 Magnetometer Survey Results (unprocessed); 1:1,000

## ARCHAEOLOGICAL GEOPHYSICAL SURVEY AT PEACE HILL, BUGBROOKE NORTHAMPTONSHIRE MAY 2011

#### ABSTRACT

Northamptonshire Archaeology was commissioned by Bellway Homes to carry out a magnetometer survey on 1ha of land at Peace Hill, Bugbrooke, Northamptonshire. The application area has extant ridge and furrow of medieval field cultivation surviving as earthworks. A possible ditch was recorded in the southern part of the site.

#### 1 INTRODUCTION

Northamptonshire Archaeology (NA) was commissioned by Bellway Homes to undertake a detailed geophysical survey on 1ha of land at Peace Hill, Bugbrooke, Northamptonshire (NGR 467281 257010; Fig 1). The works were carried out to help inform a planning application.

The works were requested by the County Archaeological Advisor to Northamptonshire County Council in accordance with Planning Policy Statement 5 (PPS5; DCLG 2010). Outline planning consent for the site has been granted, the works were requested in order to inform a forthcoming reserved matters application.

#### 2 BACKGROUND

The site is located on the south-western edge of Bugbrooke, overlooking the Northampton Arm of the Grand Union Canal. It comprises a single pasture field one hectare in area at an altitude of between 85m and 90m aOD. Its northern boundary and part of the eastern edge is defined by roads or by residential areas. To the south and south-west lie fields. Wooden post and metal wire fencing surround the field.

Middle Lias silts and clays underlie the bulk of the site area and Marlstone rockbed outcrops in the north-west corner (BGS <u>http://www.bgs.ac.uk/GeoIndex/</u> accesses 27/5/11).

A Cultural Heritage Assessment has been carried out by Gifford (2009). The site has not been the subject of any previous field investigation and there are no Scheduled Monuments or listed structures within the proposed survey area. There are medieval ridge and furrow cultivation surviving as earthworks within the application (HER MNN3723). The earthworks survive on a south-west to north-east alignment and stand at an approximate height of 0.25m. Further likely medieval earthworks are known in the area, such as more ridge and furrow to the north and west and a hollow-way to the south-east.

The parish of Bugbrooke is known to be rich in Roman archaeology, attested by the work of the Community Landscape Archaeology Survey Project (CLASP <u>www.claspweb.org.uk</u> accessed 18/05/11).

1

#### 3 METHODOLOGY

The geophysical survey was carried out in accordance with the guidelines of English Heritage and the Institute for Archaeologists (EH 2008 & Gaffney, Gater and Ovenden 2002).

The survey was conducted with Bartington Grad 601-2, twin sensor array, vertical component fluxgate gradiometers (Bartington and Chapman 2003). These are standard instruments for archaeological survey and can resolve magnetic variations as slight as 0.1 nanotesla (nT).

The gradiometer coverage comprised a total of 13 whole and partial 30m x 30m gridsquares. The survey area was set-out manually by tape measure and optical square. Each grid square was traversed at rapid walking pace in zigzag mode and magnetic data was recorded every 0.25m along traverses spaced at 1m intervals. As the earthworks were sizeable the decision was made to walk transects along the earthworks.

The data was analysed using Geoplot 3.00v software. Low (negative) magnetism is shown as white and high (positive) magnetism as black in the resultant greytone plots. Minimal manipulation was carried out on the data as the raw data is generally of high quality, ensuring that the data-set is uniform (EH 2008, 41-44). Thermal drift in the four fluxgate sensors may slightly alter the balanced level of the gradiometer over a survey, causing 'heading' errors visible as striping along traverses in the data. The 'Zero Mean Traverse' function was applied in order to bring the average level of each data line into a balanced mean of zero. This function retains the gradient of the magnetic field whilst reducing the mean so that each traverse is directly comparable.

The processed data was examined for weak magnetic anomalies under a variety of viewing regimes. The data is presented here in the form of a grey tone image highlighting a broad magnetic anomaly scale (-4.0nT / +4.0nT) which in turn was rectified to the Ordnance Survey base (Fig 2). Interpretative plots have been generated from the results (Fig 3). A plot of the unprocessed data (-4.0nT / +4.0nT) is included for reference (Fig 4).

#### 4 SURVEY RESULTS

Against the eastern boundary of the site is a positive L-shaped linear anomaly (Fig 3). One length is aligned south-east to north-west and perpendicular from its southern end a weaker positive anomaly is aligned north-east to south-west.

The ridge and furrow of the medieval field system, which survives as an earthwork, shows up as a dominant feature in the data.

A number of ferrous anomalies also occur throughout the area and may indicate scrap or other surface detritus. The wooden post and wire fencing is seen as highly magnetic in the data.

#### 5 CONCLUSION

Approximately one hectare of magnetic survey was carried out on land at Peace Hill, Bugbrooke. An L-shaped ditched feature was identified in the eastern part of the field and the remnants of medieval ridge and furrow field cultivation was located across much of the survey area. The ridge and furrow seen in the geophysical survey results mirror the extant earthworks.

As with all such surveys, feature detection is at the mercy of ground resolution (1.0m x 0.25m) and magnetisation levels. Small features, such as postholes, may exist in the vicinity of the larger features but be undetectable by this survey.

#### BIBLIOGRAPHY

Bartington, G, and Chapman, C, 2003 A high-stability fluxgate magnetic gradiometer for shallow geophysical survey applications, Archaeological Prospection, **11**, 19-34

DCLG 2010 Planning *Policy Statement 5: Planning for the Historic Environment*, Department for Communities and Local Government

Gaffney, C, Gater, J, and Ovendon, S, 2002 *The Use of Geophysical Techniques in Archaeological Evaluations*, Institute of Field Archaeologists Technical Paper, **6** 

Gifford 2009 Peace Hill, Peace Hill, Bugbrooke, Gifford Cultural Heritage Technical Appraisal, Gifford Report No. 16332-CH001 Rev.A

EH 2008 Geophysical Survey in Archaeological Field Evaluation, English Heritage

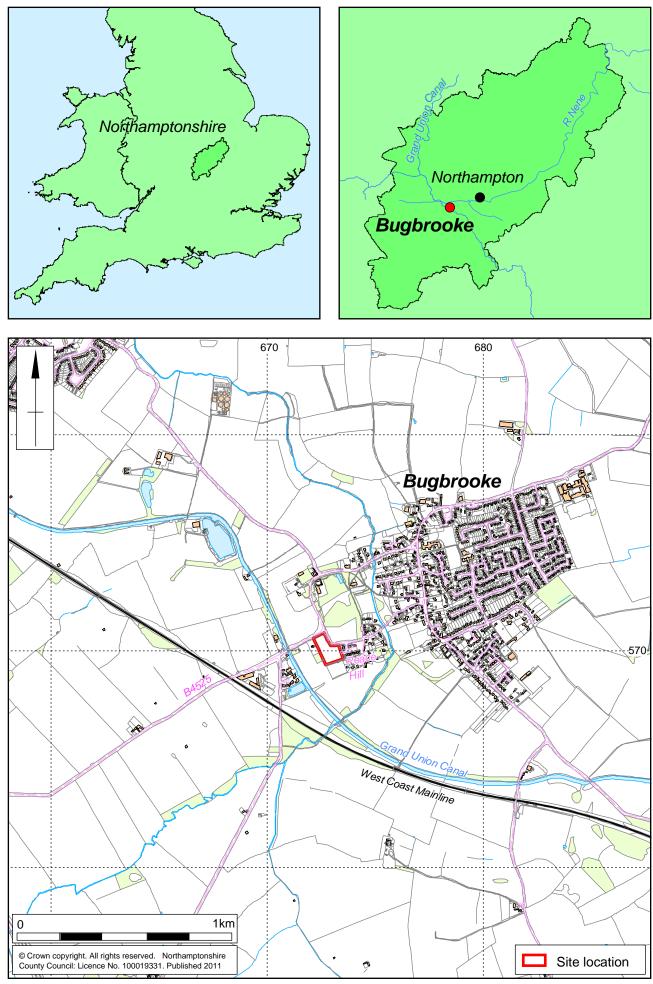
If A forthcoming *The Use of Geophysical Techniques in Archaeological Evaluations,* Institute for Archaeologists

#### Websites

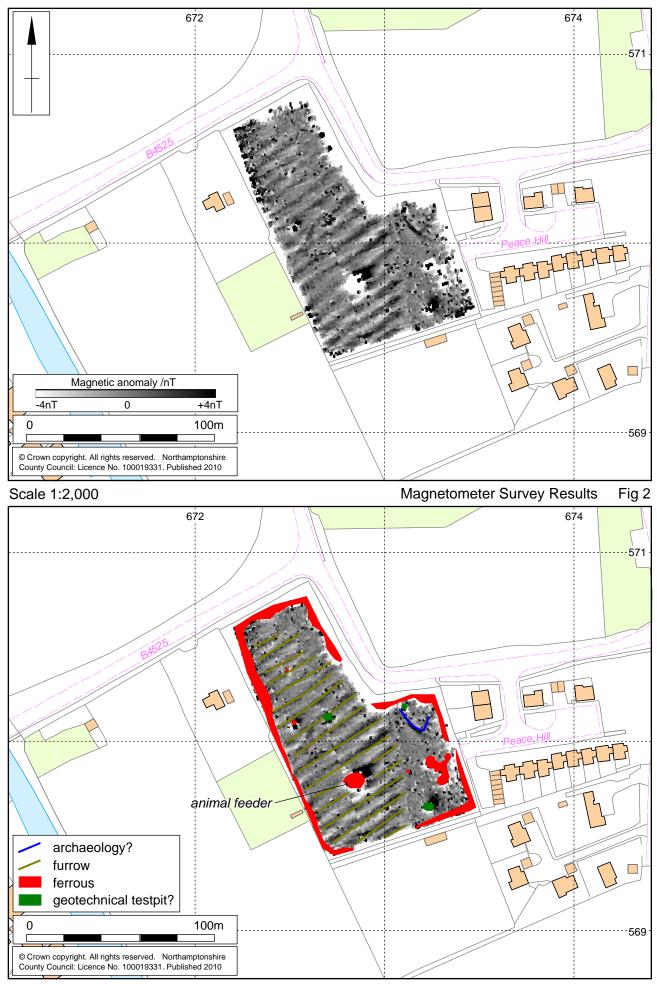
CLASP www.claspweb.org.uk BGS http://www.bgs.ac.uk/GeoIndex/

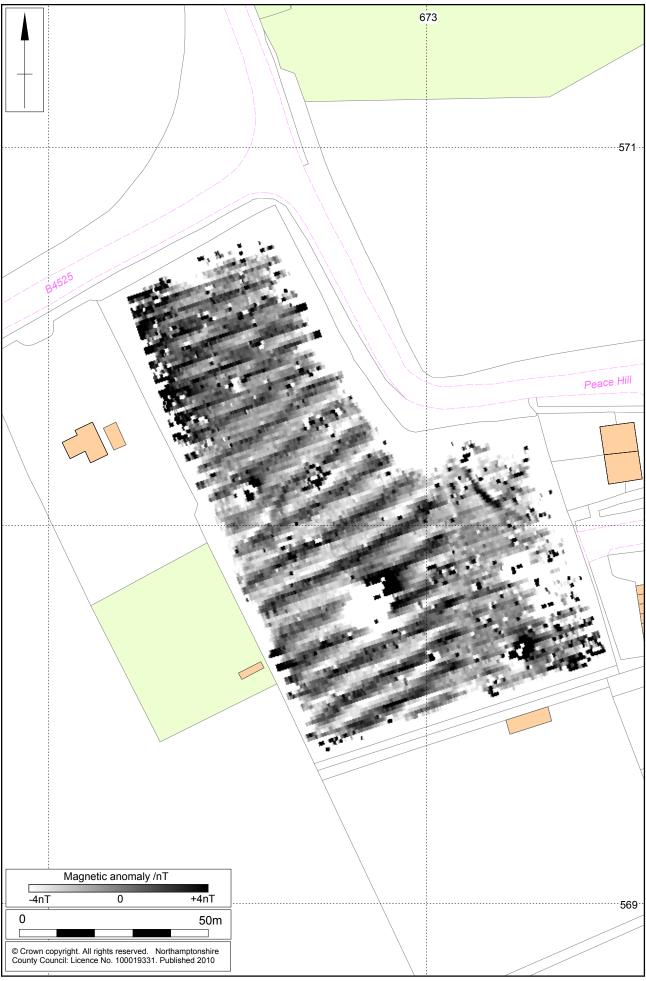
Northamptonshire Archaeology A Service of Northamptonshire County Council

14<sup>th</sup> June 2011



Scale 1:17,500





Scale 1:1,000



Northamptonshire County Council

# Northamptonshire Archaeology

Northamptonshire Archaeology 2 Bolton House Wootton Hall Park Northampton NN4 8BE t. 01604 700493 f. 01604 702822 e. sparry@northamptonshire.gov.uk w. www.northantsarchaeology.co.uk





Northamptonshire County Council