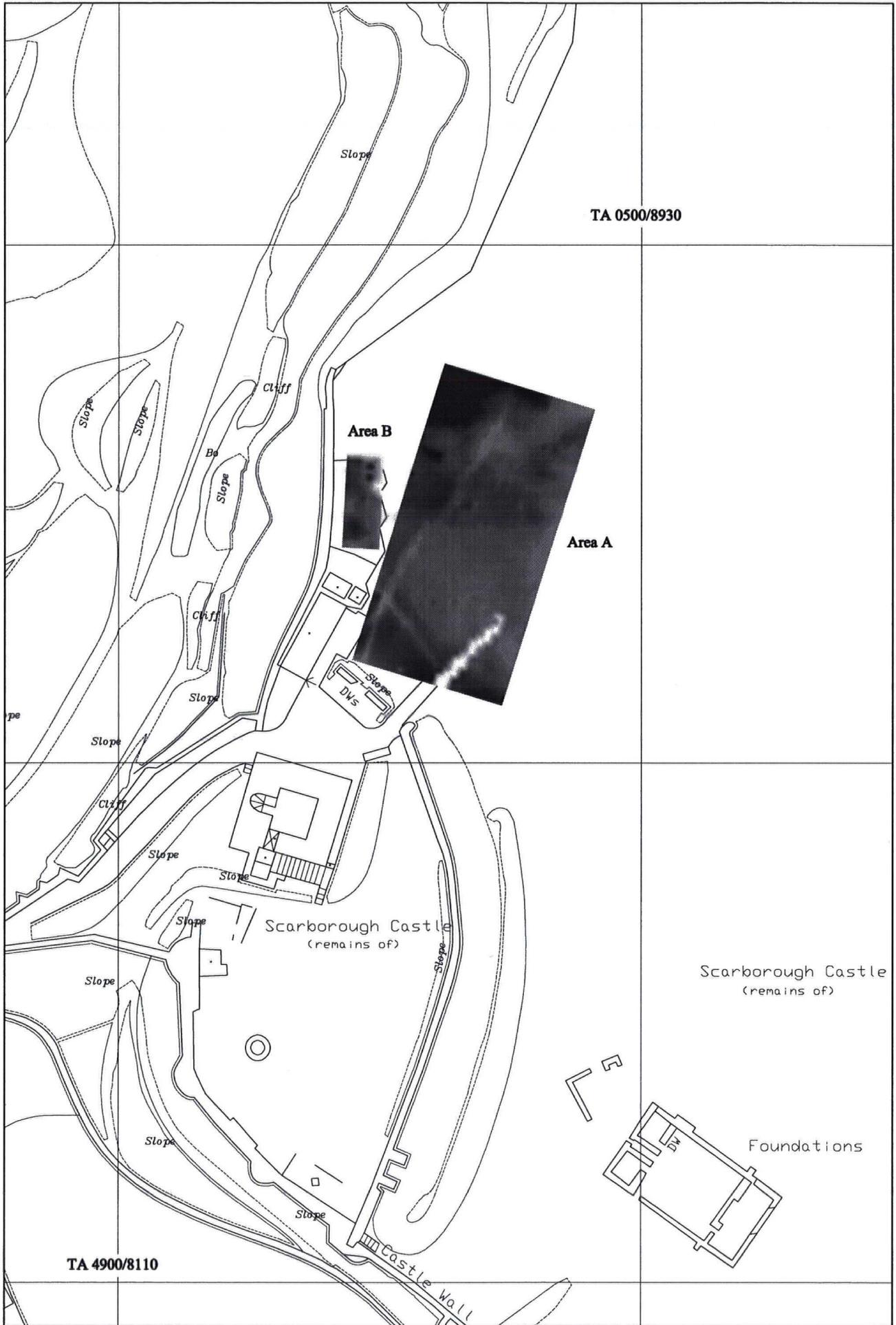


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Results of soil resistance survey (0.5m probe separation)	Scale 1:1000		Figure 4
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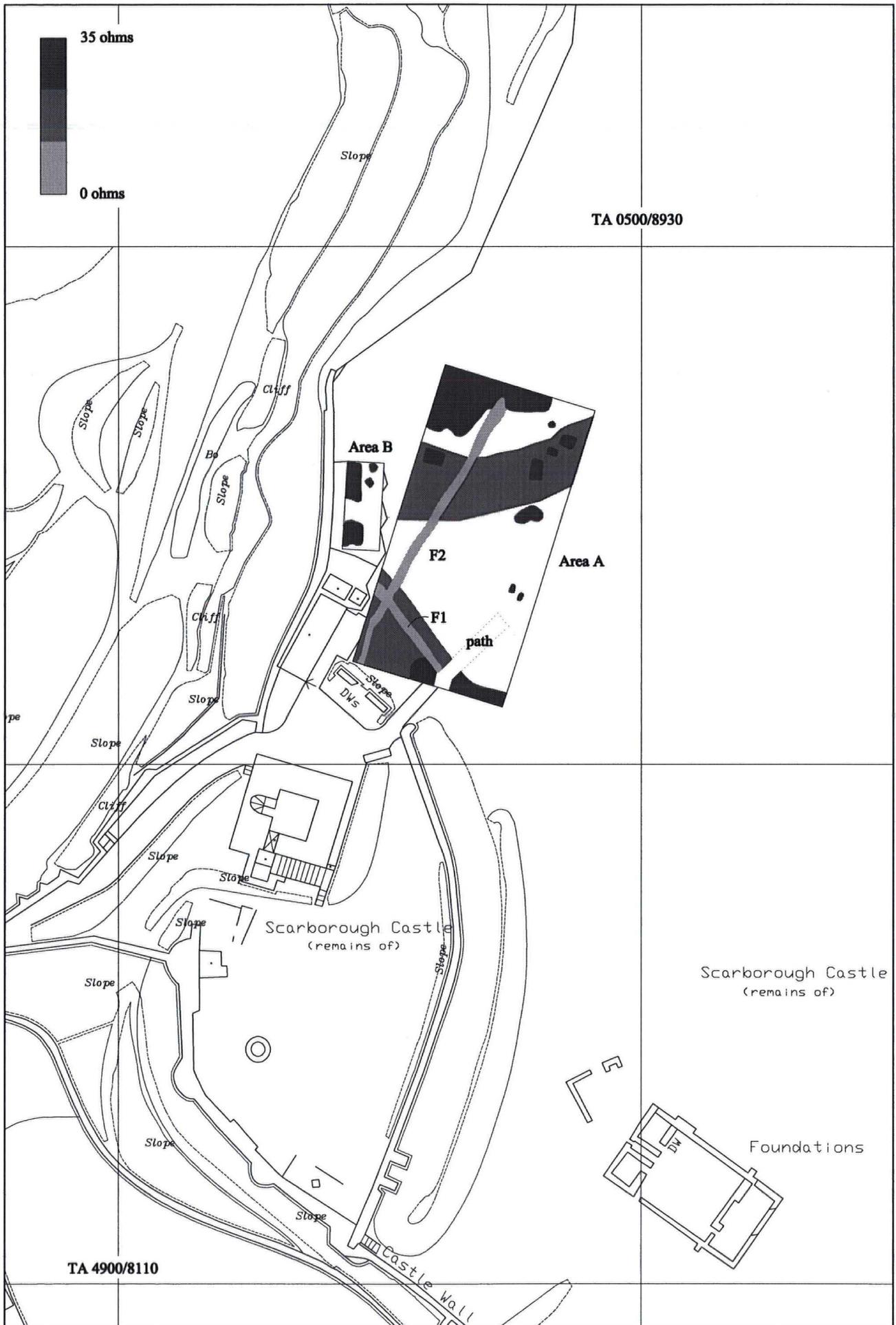




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<p>Results of soil resistance survey (1m probe separation)</p>	<p>Scale 1:1000</p>		<p>Figure 5</p>
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Interpretation map of soil resistance anomalies

Scale 1:1000



Figure 6





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Results of magnetometer survey

Scale 1:1000



Figure 7





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Interpretation map of magnetic anomalies

Scale 1:1000



Figure 8



Feature 3 This feature consists of two strong linear anomalies orientated north-south and east-west respectively. These relatively well defined linear anomalies most probably represent soil features such as ditches, however, it is also possible that these anomalies reflect the presence of foundation trenches.

The western half of Area A contains an extensive area of magnetic disturbance which is presumably caused by ferrous debris. There are also two weak curvilinear anomalies within this area of disturbance which may be structural features.

4.0 ASSESSMENT

Unfortunately, due to the presence of substantial fences and large quantities of building material it was not possible to achieve complete geophysical coverage of the area to the north of the Master Gunner's house which was the primary target of the investigation.

The geophysical survey identified a number of possible archaeological features. Although several buildings are known to have existed to the north of the Master Gunner's house, the results of the geophysical survey were not sufficiently clear to positively identify remains of these structures. Both Feature 1 and 2 defined by the soil resistance survey appear to coincide with the enclosure wall present on the Ordnance Survey map of 1892 (Fig.9). The accurate mapping of this feature by the geophysical survey should assist with the positioning of earlier buildings from historic maps.

The presence of large high resistance anomalies interpreted as spreads of building debris to the north and north-east of the Master Gunner's house as well as the large concentration of ferrous debris in this area strongly suggests that the proposed development area contains substantial deposits of building debris presumably derived from the demolition of the North Magazine and 'Shifting Room'. Pacitto's observation that good 18th century deposits are preserved c.1.3m below the current ground surface suggests that these postulated deposits of building debris may be more than just superficial spreads.

The large high resistance anomaly defined in the southern edge of Area A may also reflect the presence of extensive layers of building debris, however, it is also possible that this anomaly represents the backfilled continuation of the Inner Bailey ditch.

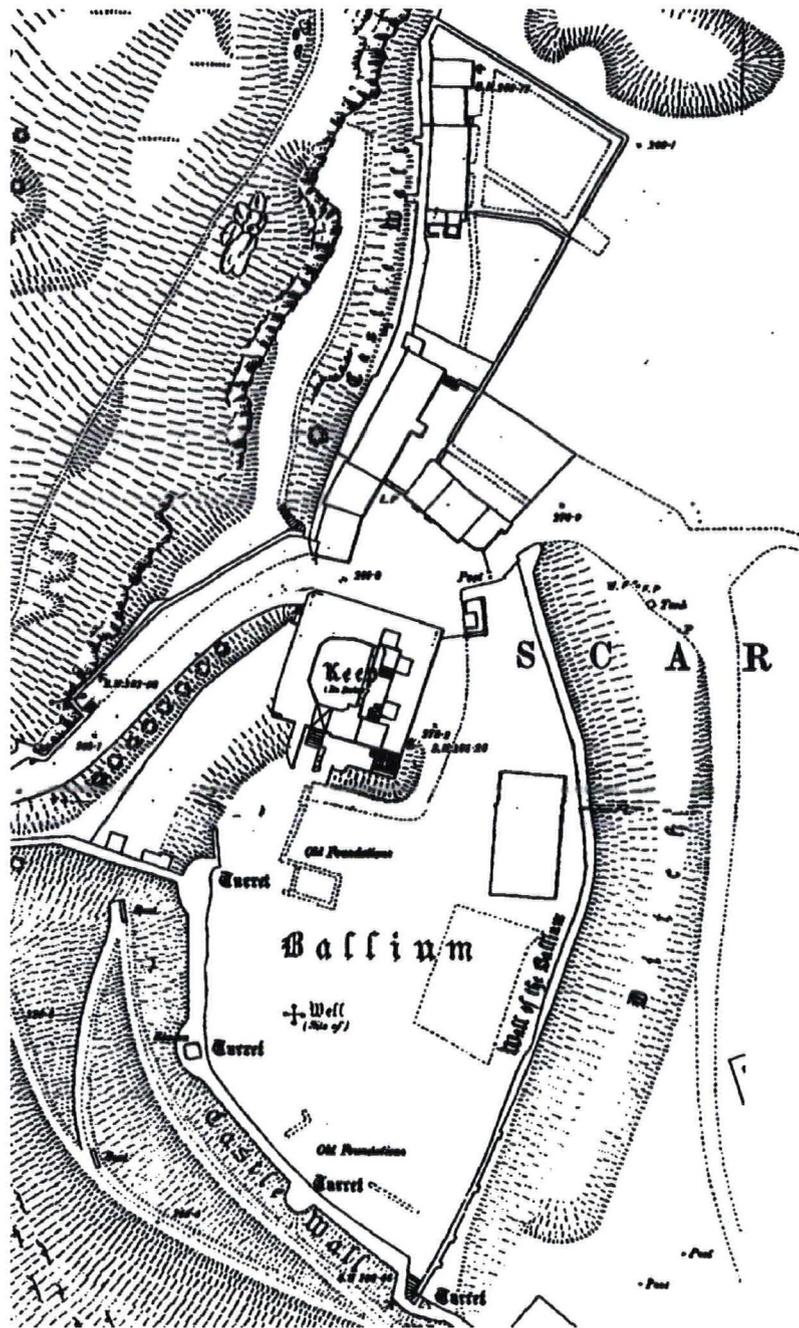


Fig.9: 1892 Ordnance survey map 1:1000

APPENDIX A Section 42 Licence



ENGLISH HERITAGE

YORKSHIRE REGION

Justin Garner-Lahire
Field Archaeology Specialists Ltd
University of York
Kings Manor
York
YO1 7EP

Direct dial: 01904 601987
Your ref:
Our ref: AA/ 16228
Date: 10th May 2000

Dear Mr Garner-Lahire

**ANCIENT MONUMENTS AND ARCHAEOLOGICAL AREAS ACT 1979 -
SECTION 42 LICENCE
MONUMENT NAME: SCARBOROUGH CASTLE
MONUMENT NUMBER: 13300**

I refer to your application to carry out a geophysical survey at the above monument, made in your letter of 5th May 2000.

By virtue of powers contained in Section 42 of the 1979 Ancient Monuments and Archaeological Areas Act (as amended by the National Heritage Act 1983), English Heritage hereby grants consent for the geophysical survey to the area highlighted on the attached map extract. This consent is subject to the following conditions:

- a) This consent shall only be exercised by Toby Simpson and by no other persons;
- b) A full report summarising the results of the survey and their interpretation shall be sent to Keith Emerick, 37 Tanner Row YORK YO1 6WP and Dr A David, Ancient Monuments Laboratory, Fort Cumberland, Fort Cumberland Road, Eastney, Portsmouth, PO4 9LD no later than 6 months after the completion of the survey;
- c) This consent shall cease to have effect on 10th November 2000.

This letter does not carry any consent or approval required under any enactment, bye-law, order or regulation other than Section 42 of the Ancient Monuments and Archaeological Areas Act (as amended).



ENGLISH HERITAGE

YORKSHIRE REGION

Finally, I suggest that you give any person nominated under this consent a copy of this letter together with a letter of nomination in case they should be challenged whilst on site.

Yours sincerely

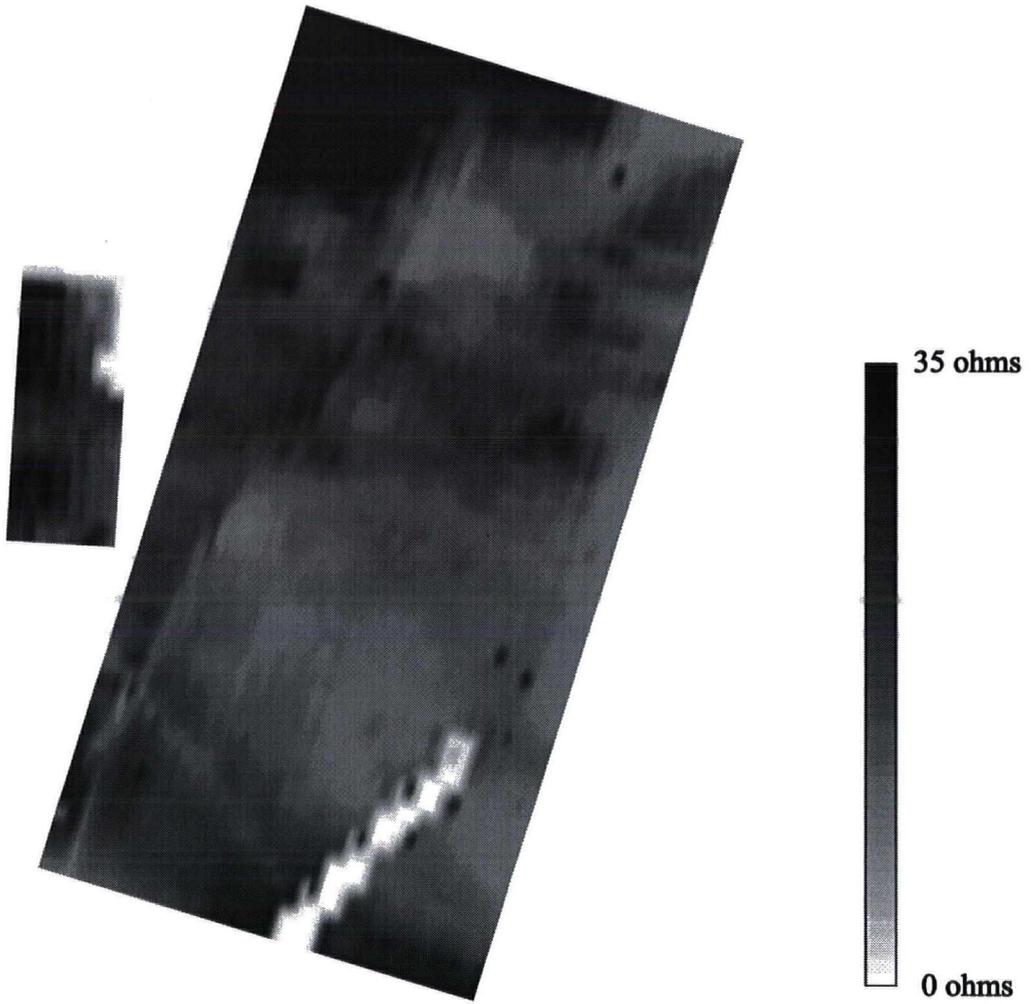
Louise McAfee

Mrs Louise McAfee
North Yorkshire
Conservation Team

Cc Dr A David

Enc Map extract

APPENDIX B Raw data plots

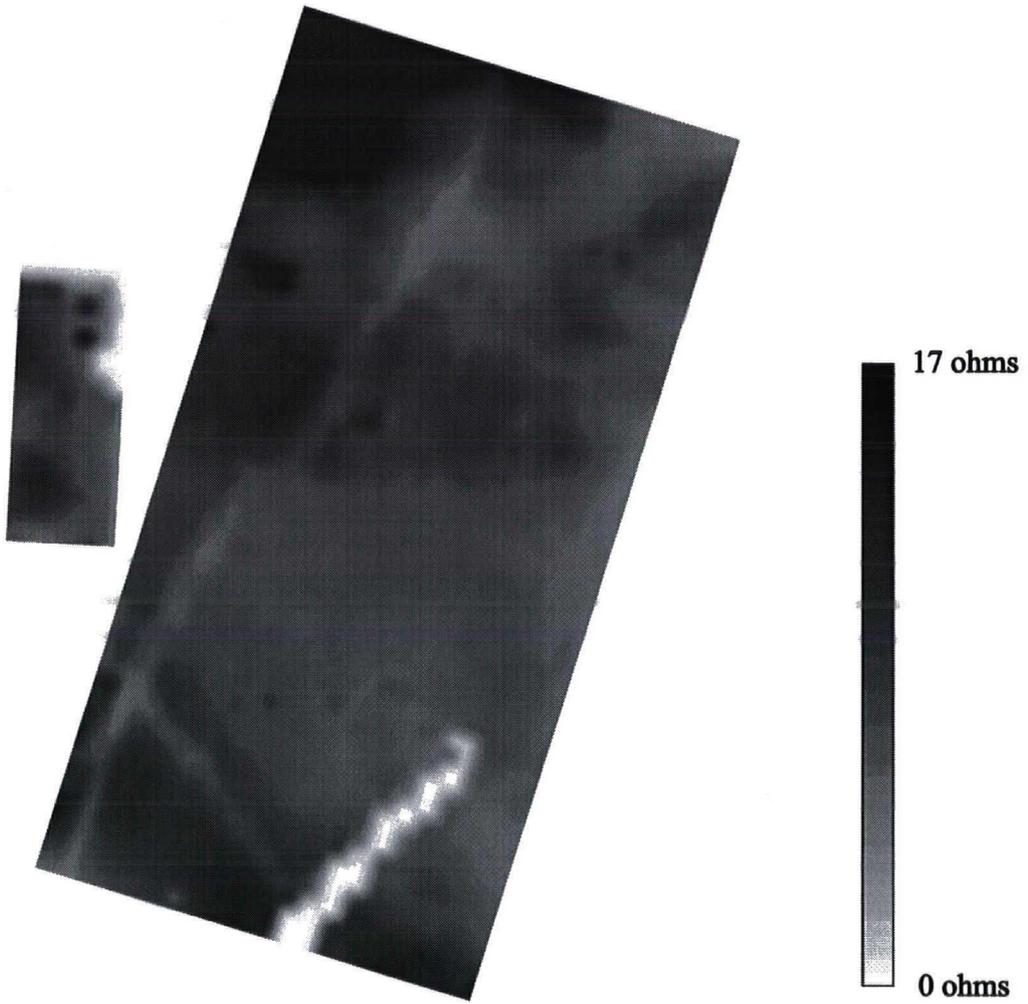


Soil resistance survey raw data plot (0.5m probe separation)

Scale 1:500



Figure Bi

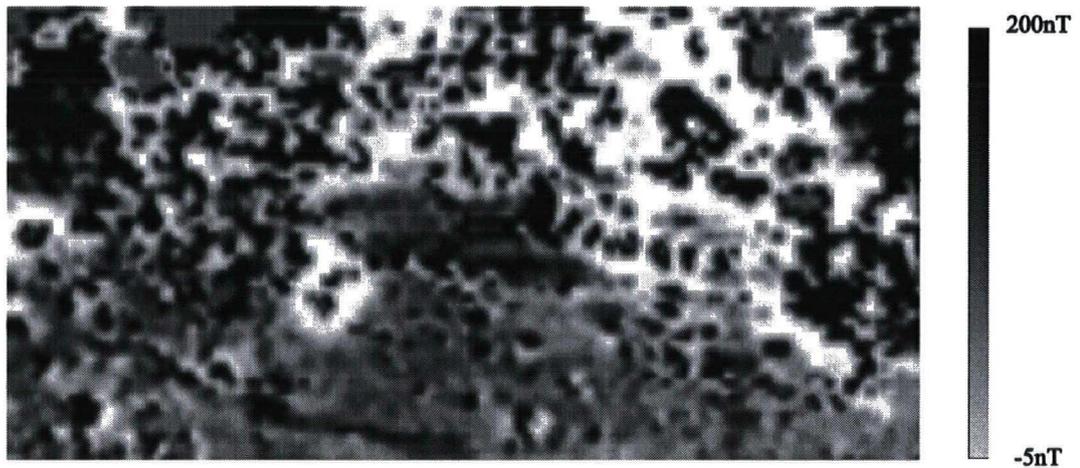
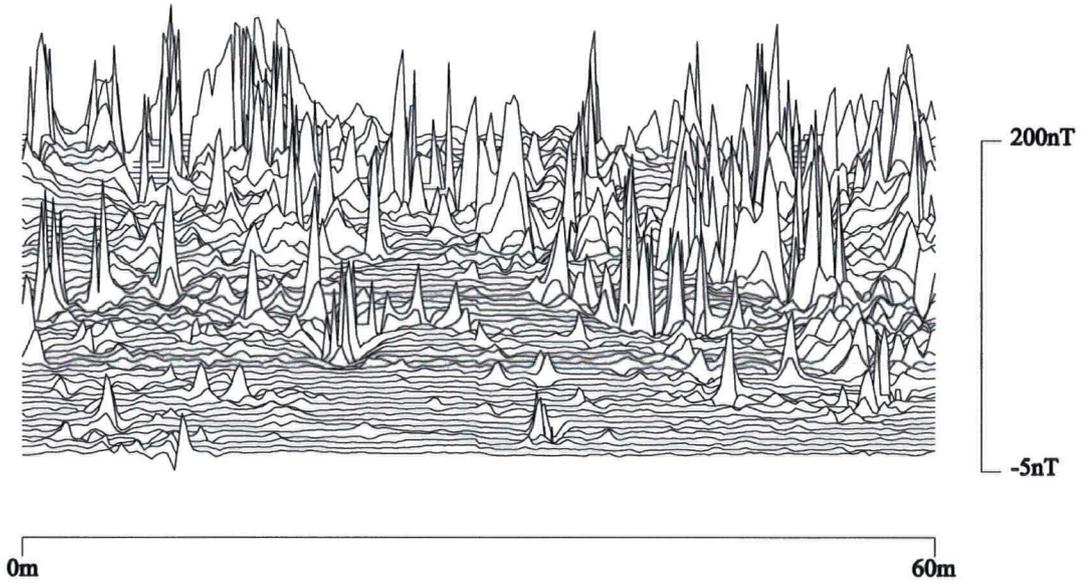


Soil resistance survey raw data plot (1.0m probe separation)

Scale 1:500



Figure Bii



Area A magnetometer survey raw data plot

Scale 1:500



Figure Biii