



# Longfield Solar Farm

Environmental Statement PINS Ref: EN010118

Volume 2

Appendix 7C: Geophysical Survey

PART 2 OF 5

Document Reference EN010118/APP/6.2

Revision Number: 1.0

February 2022

Longfield Solar Farm Ltd

APFP Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure)  
Regulations 2009

Prepared for:

Longfield Solar Farm Ltd

Prepared by:

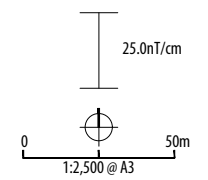
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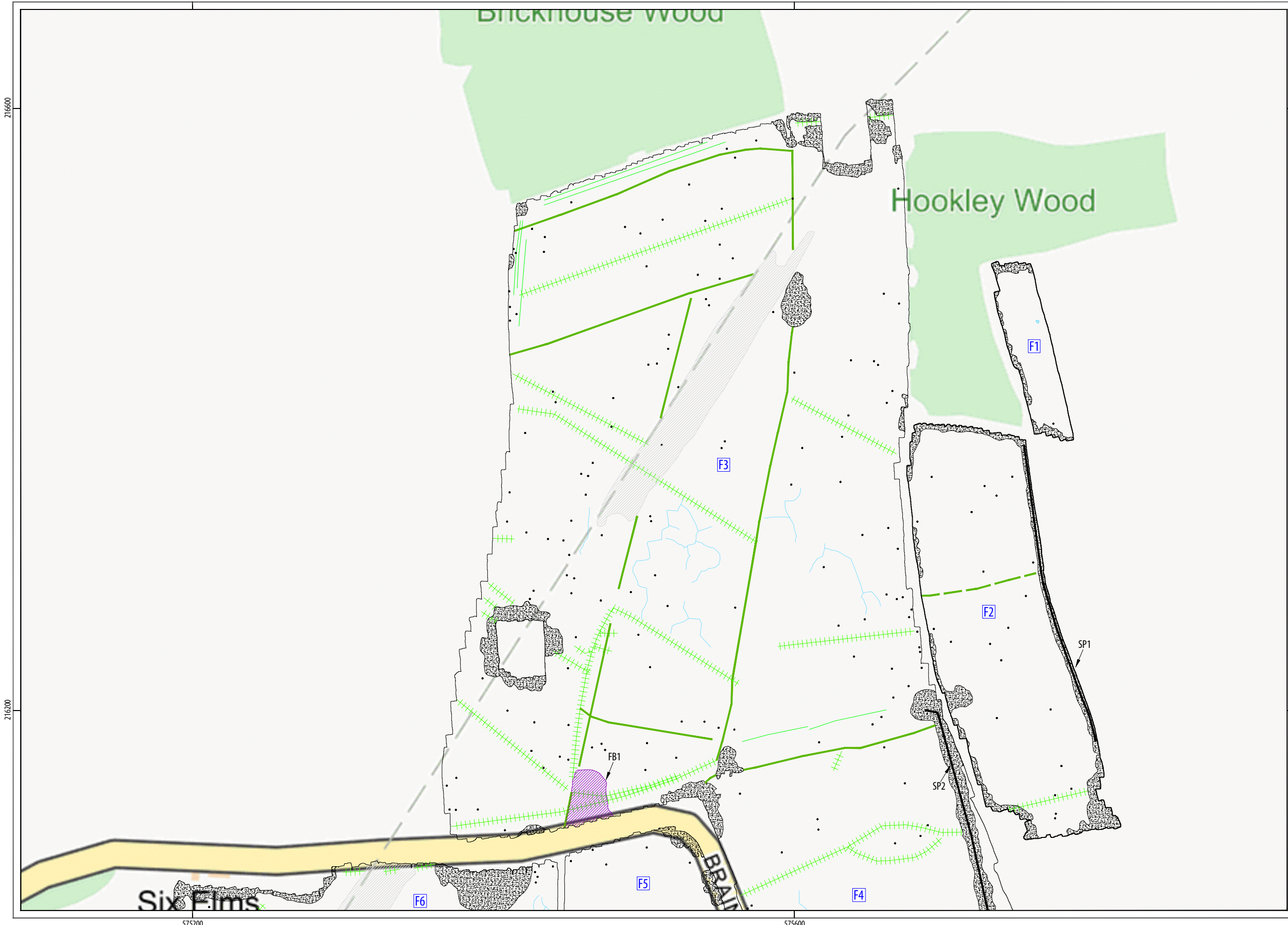
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ILLUS 14 XY trace plot of minimally processed magnetometer data; Area 1

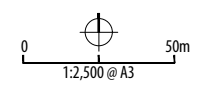




TYPE OF ANOMALY	INTERPRETATION
● dipolar isolated	ferrous material
● magnetic disturbance	ferrous material
— dipolar linear	service pipe
▨ magnetic interference	overhead cables
▨ magnetic disturbance	former building
— linear trend	agricultural
+++ linear trend	field drain
— linear	former field boundary
- - - linear	former field boundary?
— linear trend	geological variation

ABBREVIATIONS

FB	former building
SP	service pipe



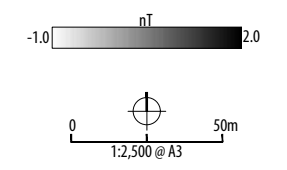
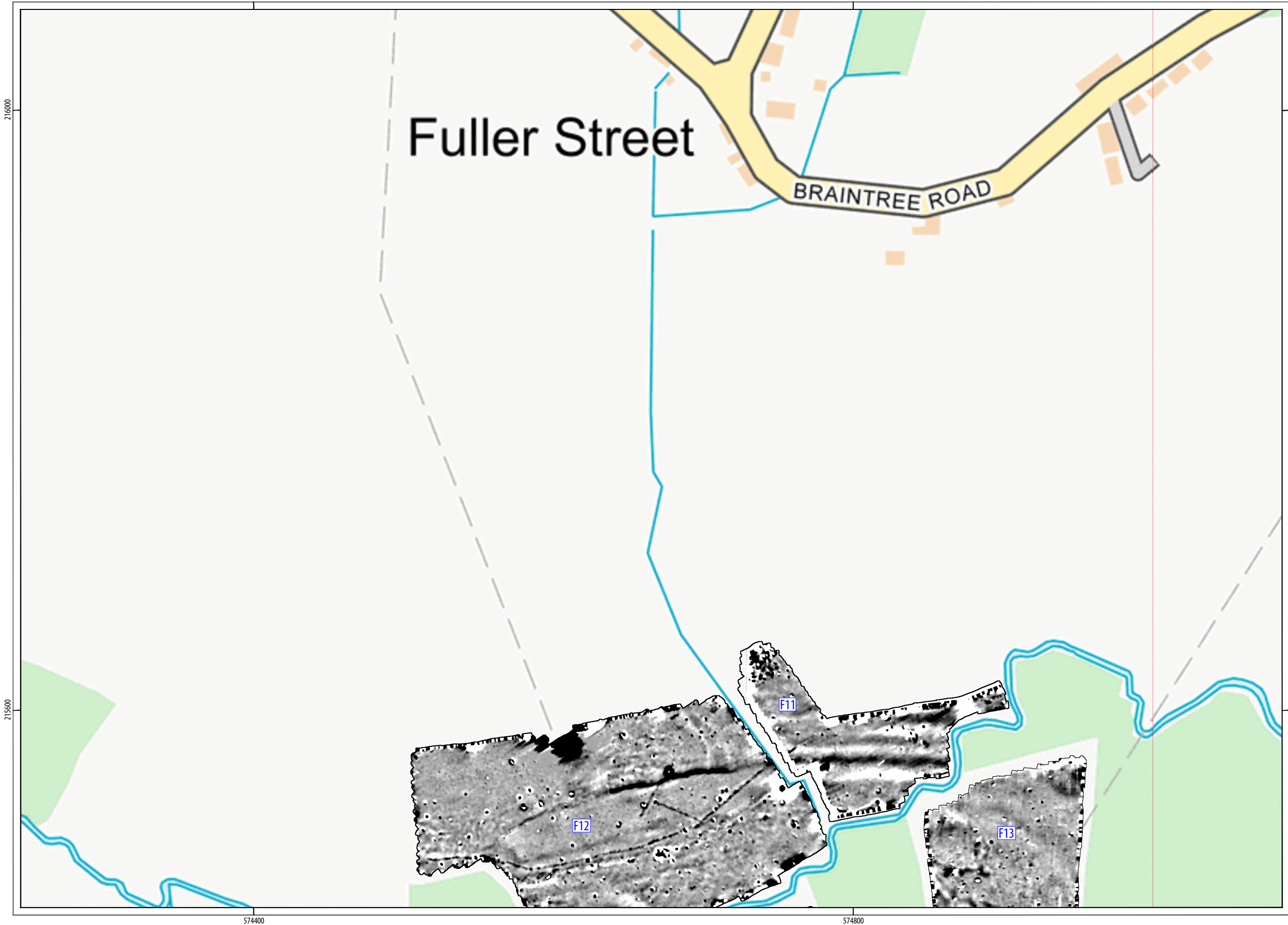
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ILLUS 15 Interpretation of magnetometer data; Area 1





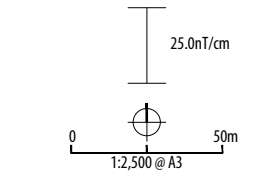
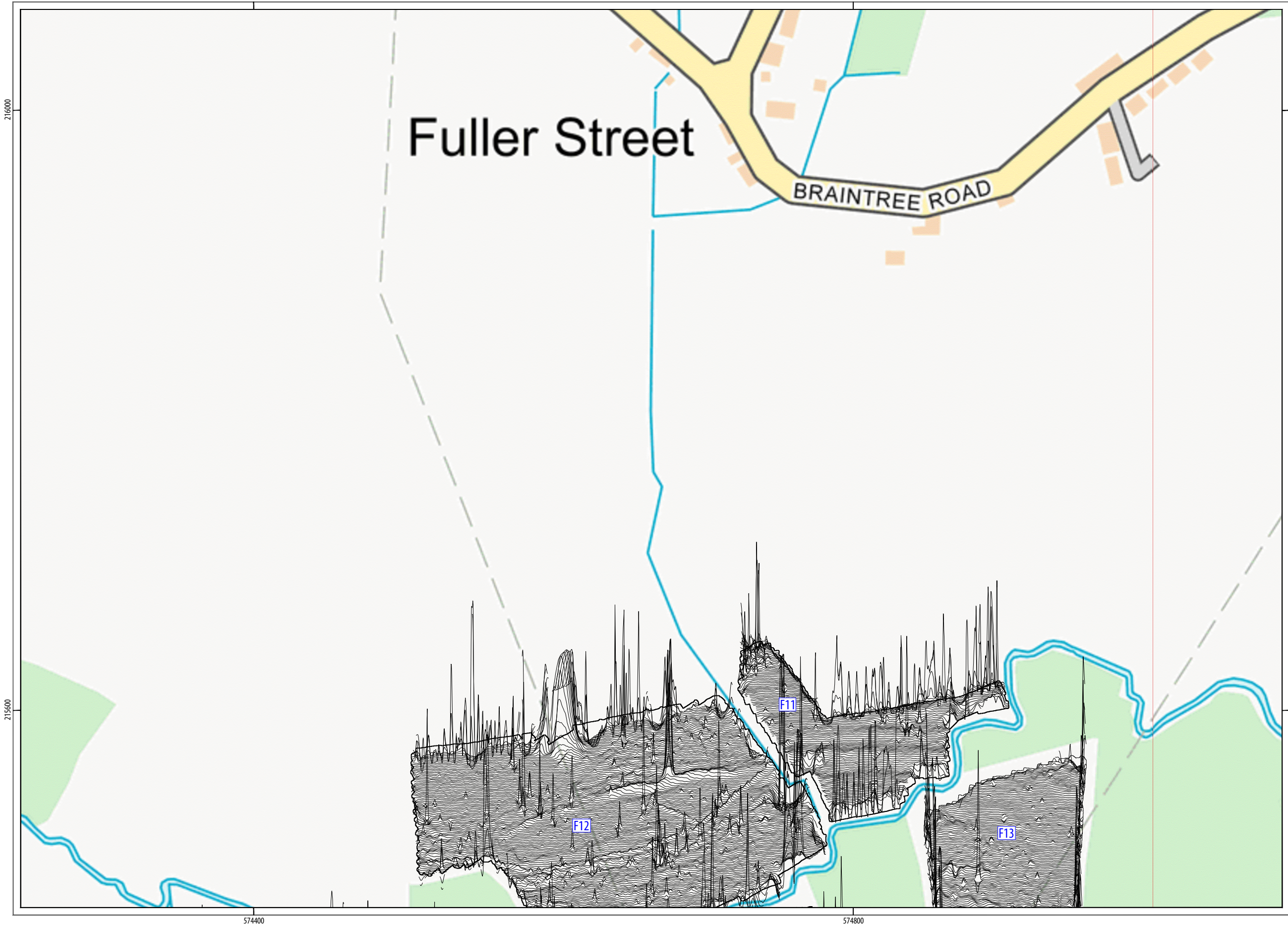
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ILLUS 16 Processed greyscale magnetometer data; Area 2





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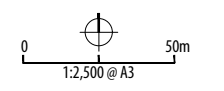
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ILLUS 17 XY trace plot of minimally processed magnetometer data; Area 2





TYPE OF ANOMALY	INTERPRETATION
● dipolar isolated	ferrous material
● magnetic disturbance	ferrous material
▨ magnetic interference	overhead cables
+++ linear trend	field drain
— linear	former field boundary
— linear trend	geological variation
● magnetic enhancement	geology



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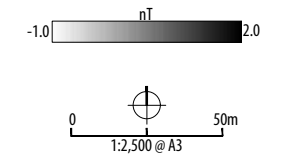
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ILLUS 18 Interpretation of magnetometer data; Area 2





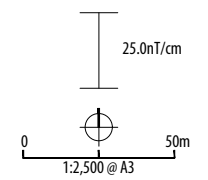
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ILLUS 19 Processed greyscale magnetometer data; Area 3





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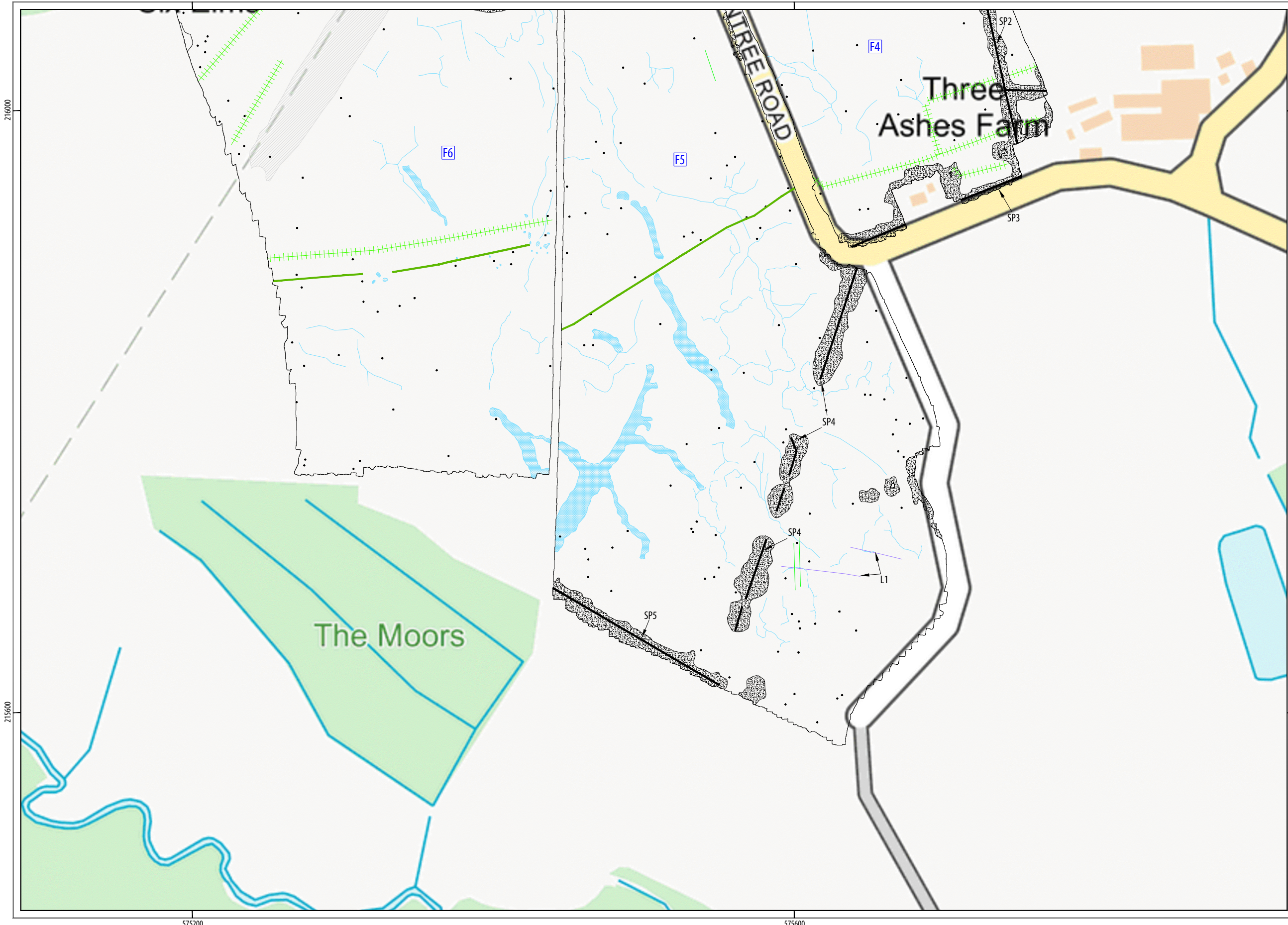
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ILLUS 20 XY trace plot of minimally processed magnetometer data; Area 3

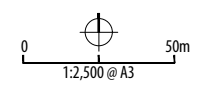




TYPE OF ANOMALY	INTERPRETATION
● dipolar isolated	ferrous material
● magnetic disturbance	ferrous material
— dipolar linear	service pipe
▨ magnetic interference	overhead cables
— linear trend	agricultural
— linear trend	field drain
— linear	former field boundary
● magnetic enhancement	uncertain
— linear trend	geological variation
● magnetic enhancement	geology

ABBREVIATIONS

SP service pipe  
L linear



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575200

575600



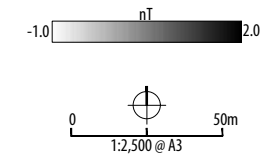


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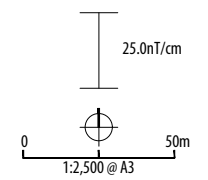
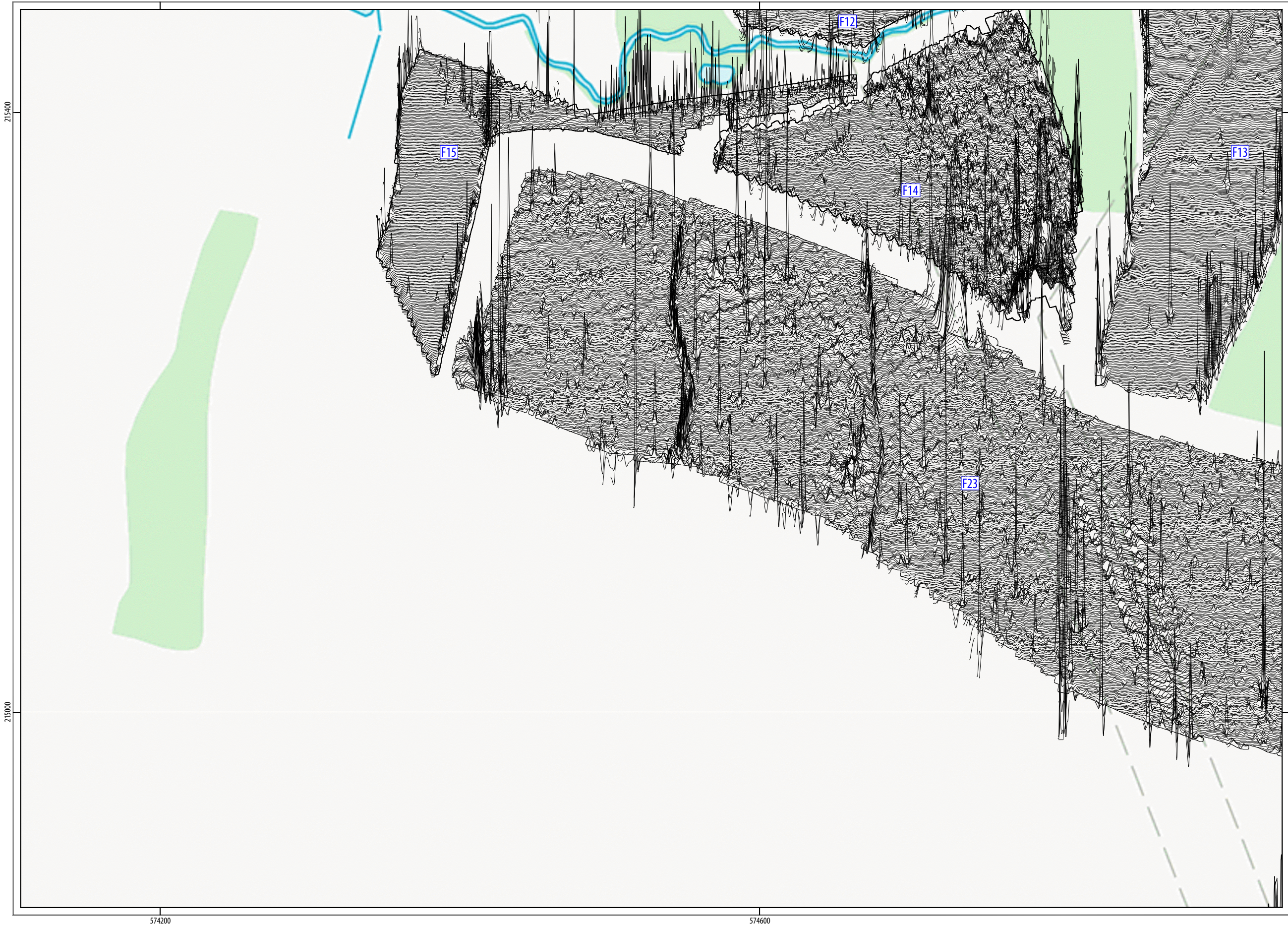
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ILLUS 22 Processed greyscale magnetometer data; Area 4





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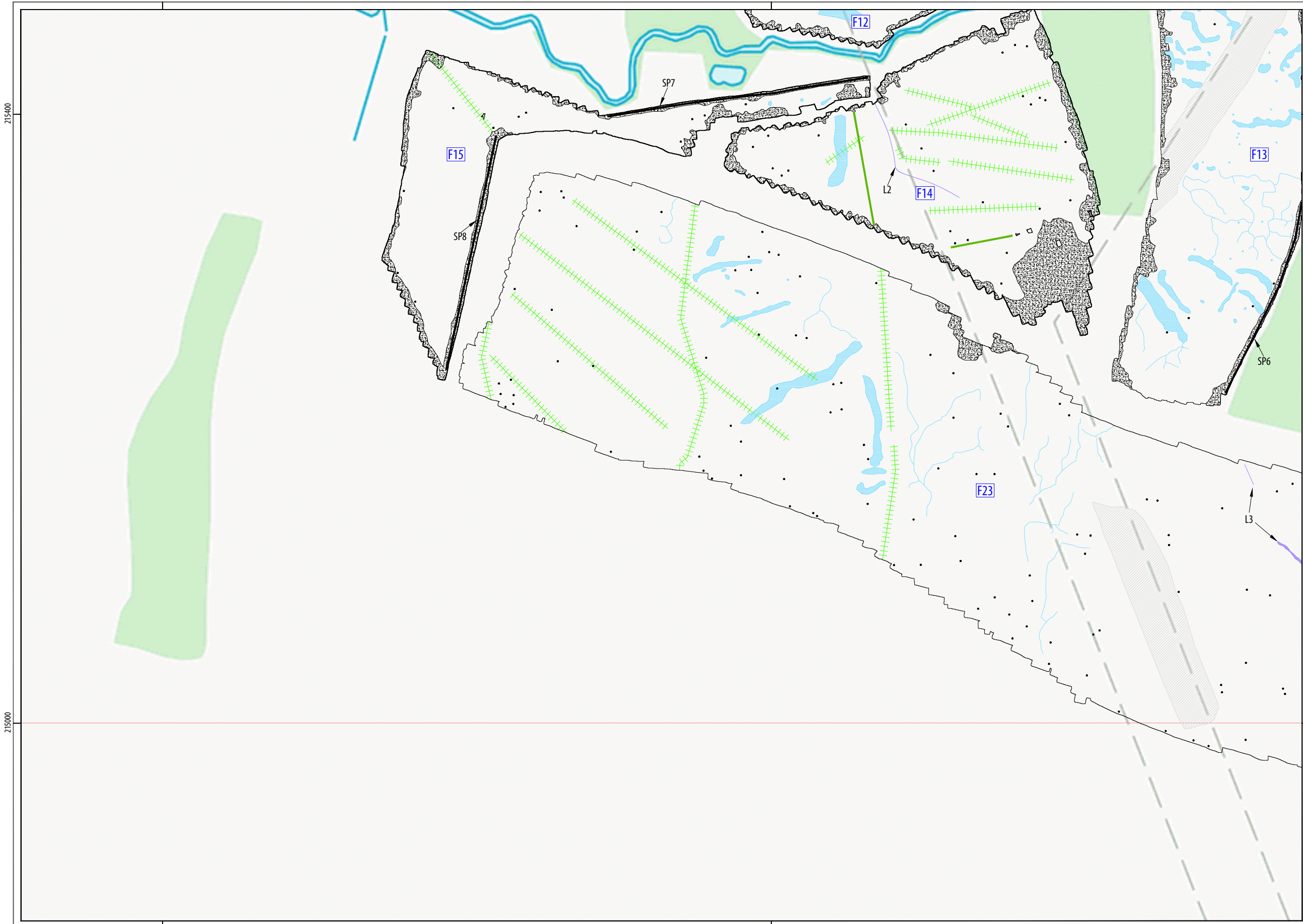
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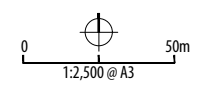
ILLUS 23 XY trace plot of minimally processed magnetometer data; Area 4





TYPE OF ANOMALY	INTERPRETATION
● dipolar isolated	ferrous material
● magnetic disturbance	ferrous material
— dipolar linear	service pipe
— magnetic interference	overhead cables
— linear trend	field drain
— linear	former field boundary
— linear trend	uncertain
— magnetic enhancement	uncertain
— linear trend	geological variation
— magnetic enhancement	geology
— linear trend	archaeology?
— magnetic enhancement	archaeology?

ABBREVIATIONS  
 SP service pipe  
 L linear



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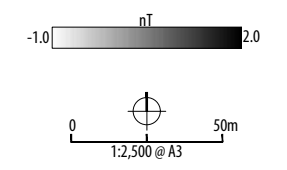
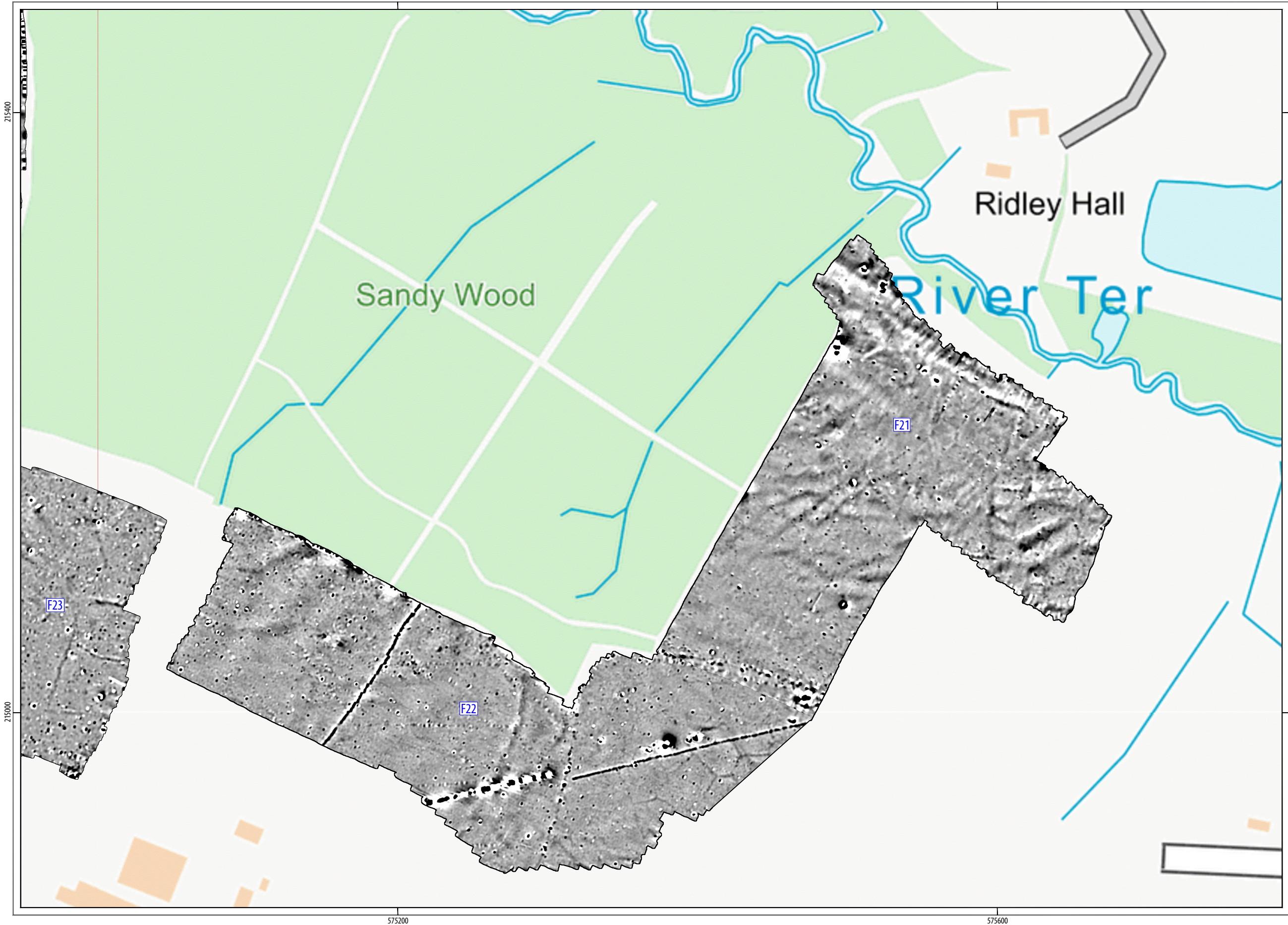
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ILLUS 24 Interpretation of magnetometer data; Area 4





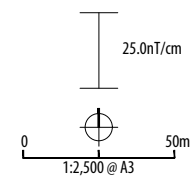
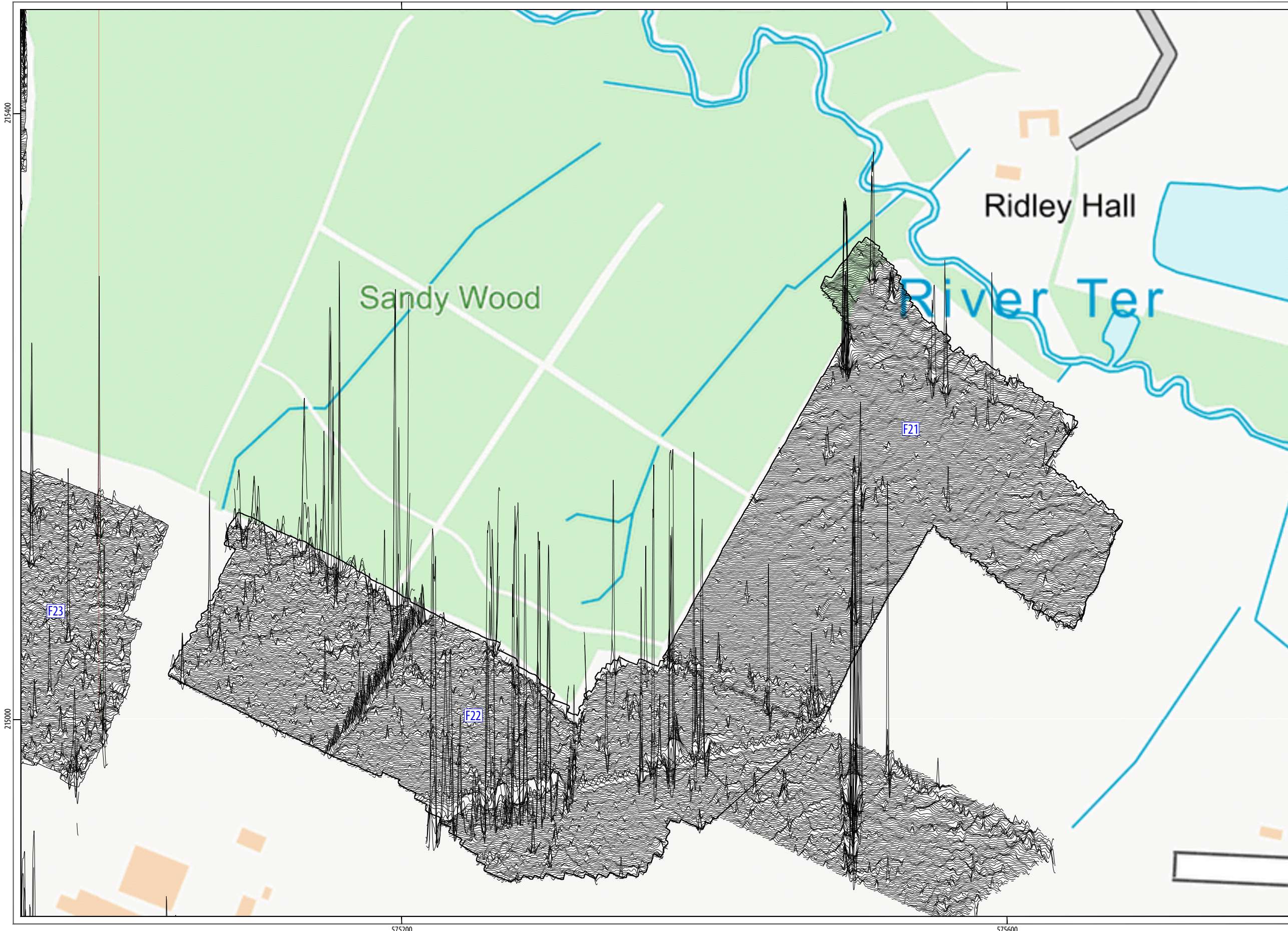
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ILLUS 25 Processed greyscale magnetometer data; Area 5





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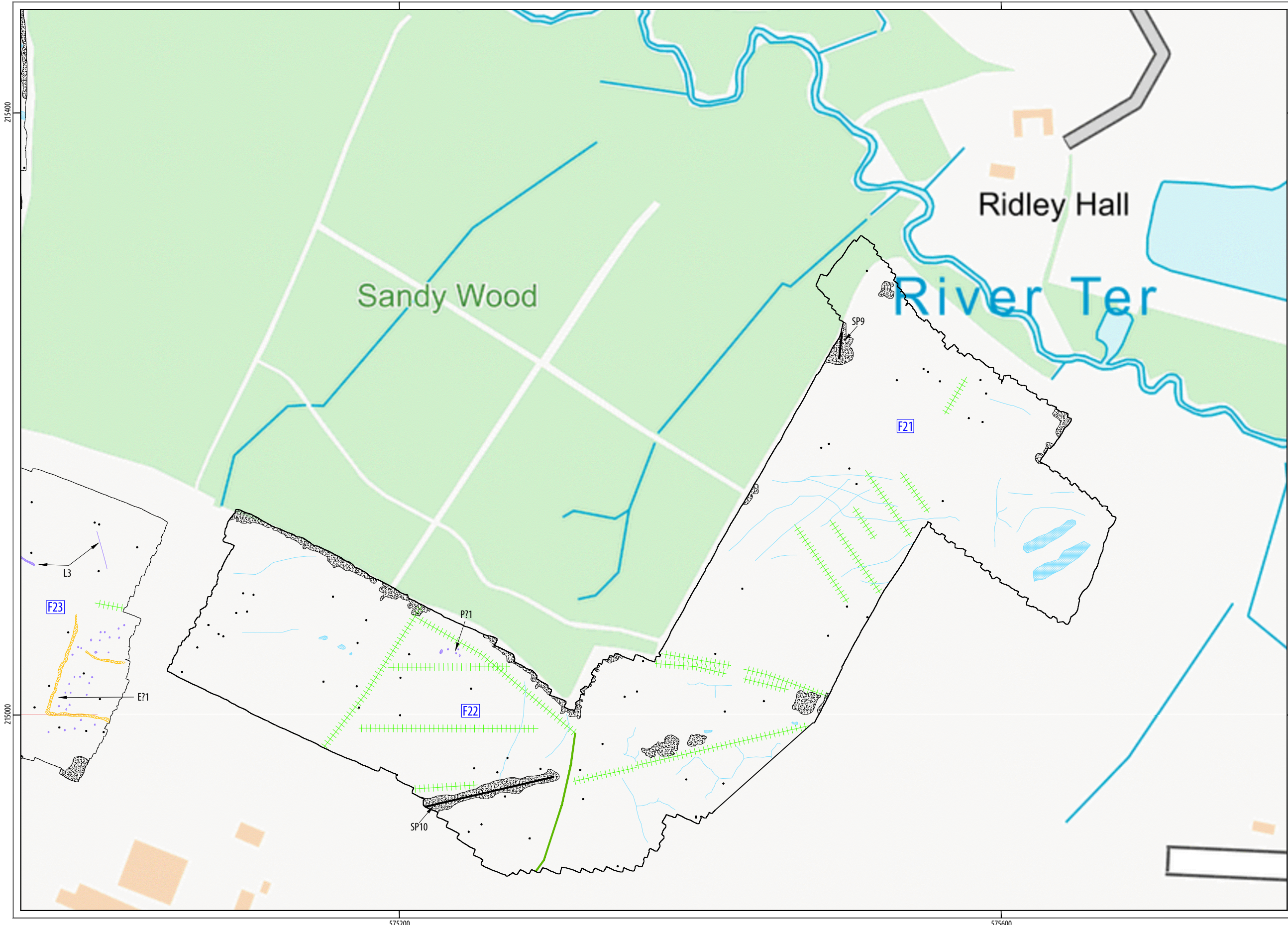
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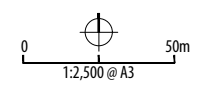
ILLUS 26 XY trace plot of minimally processed magnetometer data; Area 5





TYPE OF ANOMALY	INTERPRETATION
● dipolar isolated	ferrous material
● magnetic disturbance	ferrous material
— dipolar linear	service pipe
+++ linear trend	field drain
— linear	former field boundary
— linear trend	uncertain
● magnetic enhancement	uncertain
— linear trend	geological variation
● magnetic enhancement	geology
— linear trend	archaeology?
● magnetic enhancement	archaeology?

ABBREVIATIONS	MEANING
SP	service pipe
L	linear
P?	pit?
E?	enclosure?



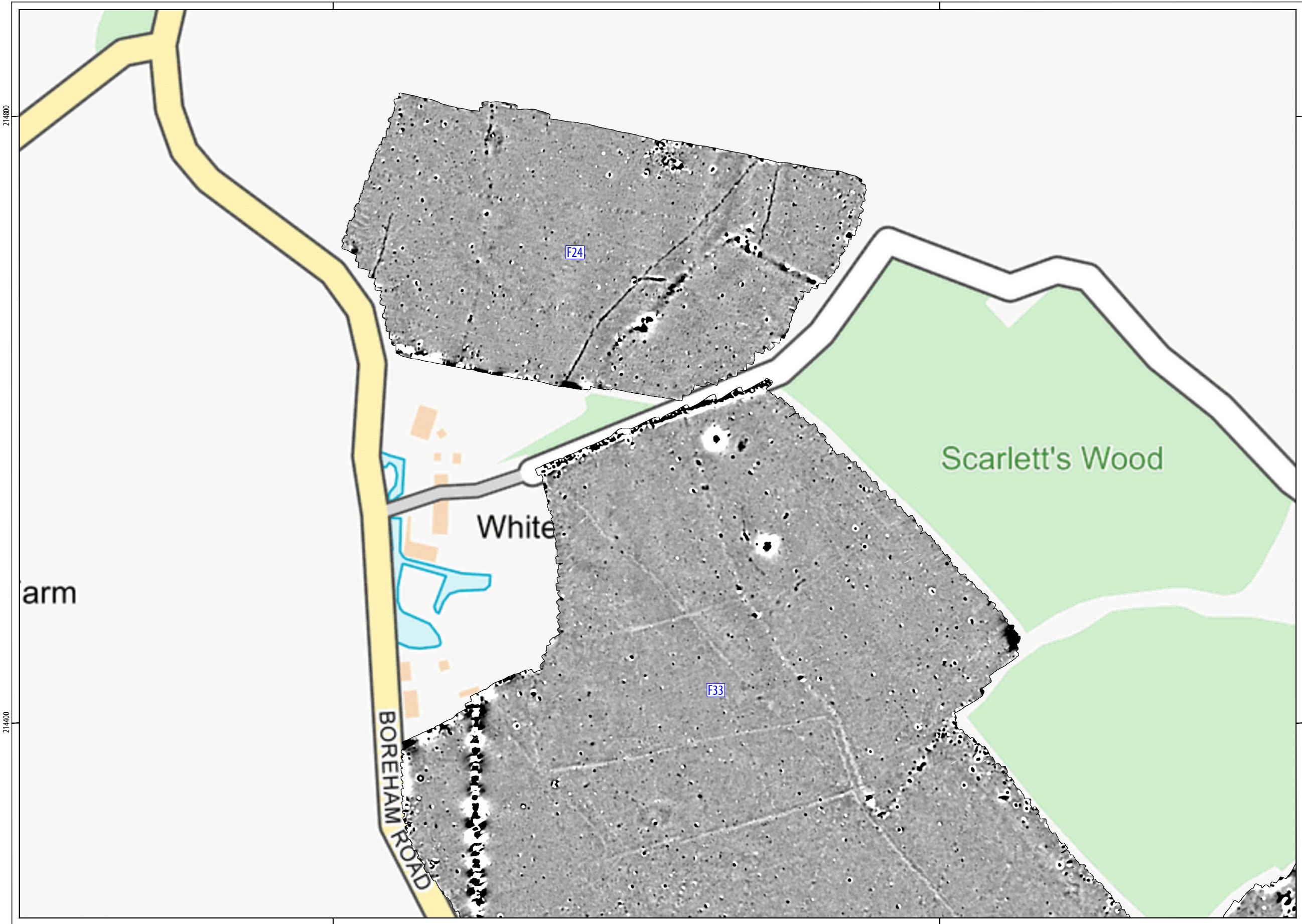
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ILLUS 27 Interpretation of magnetometer data; Area 5





214800

214400

573800

574200

arm

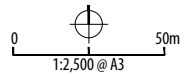
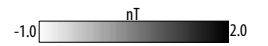
BOREHAM ROAD

White

F24

F33

Scarlett's Wood

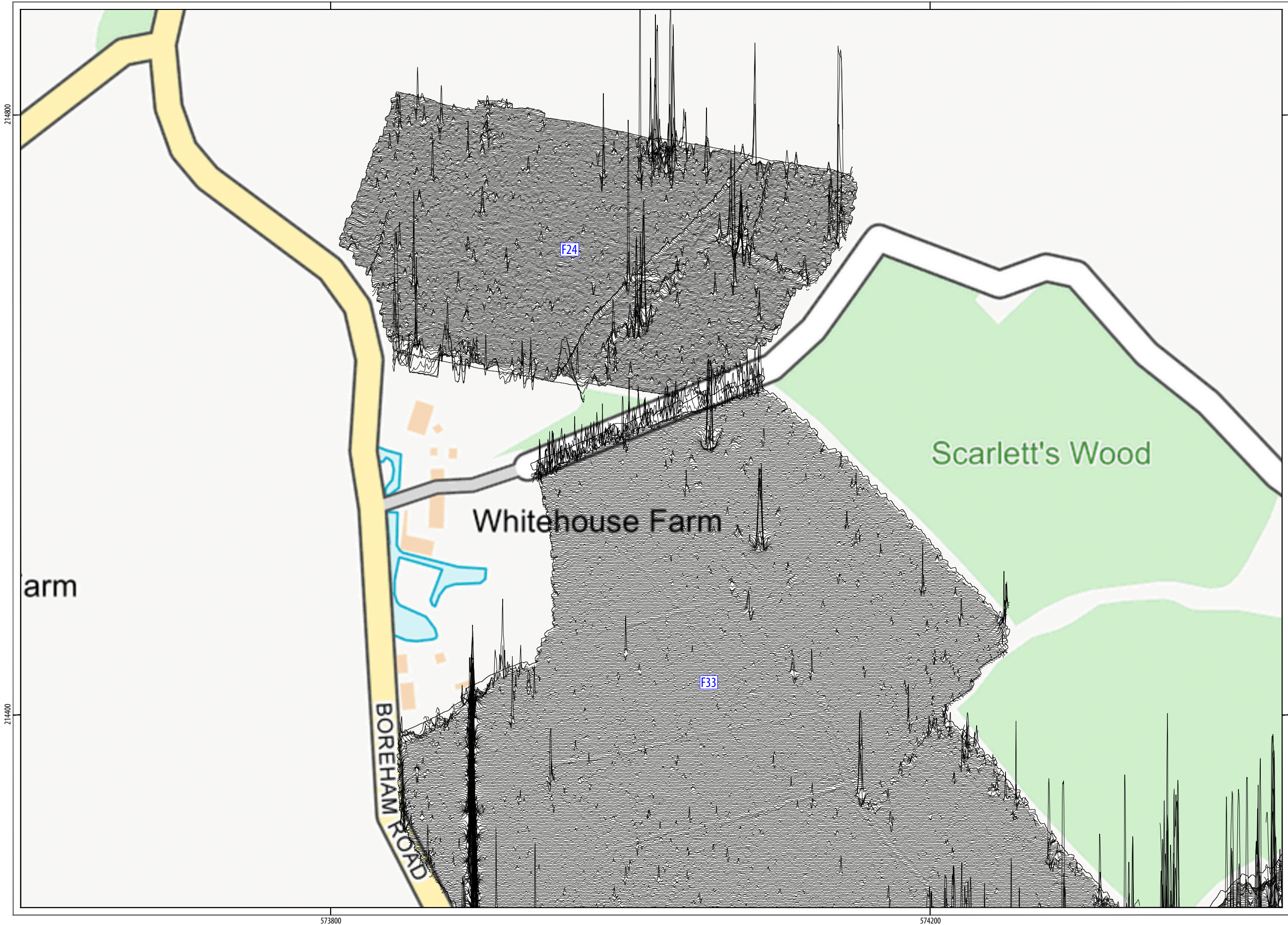


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214800

214400

573800

574200

arm

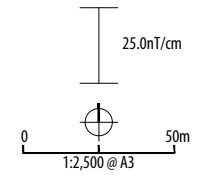
BOREHAM ROAD

Whitehouse Farm

Scarlett's Wood

F24

F33



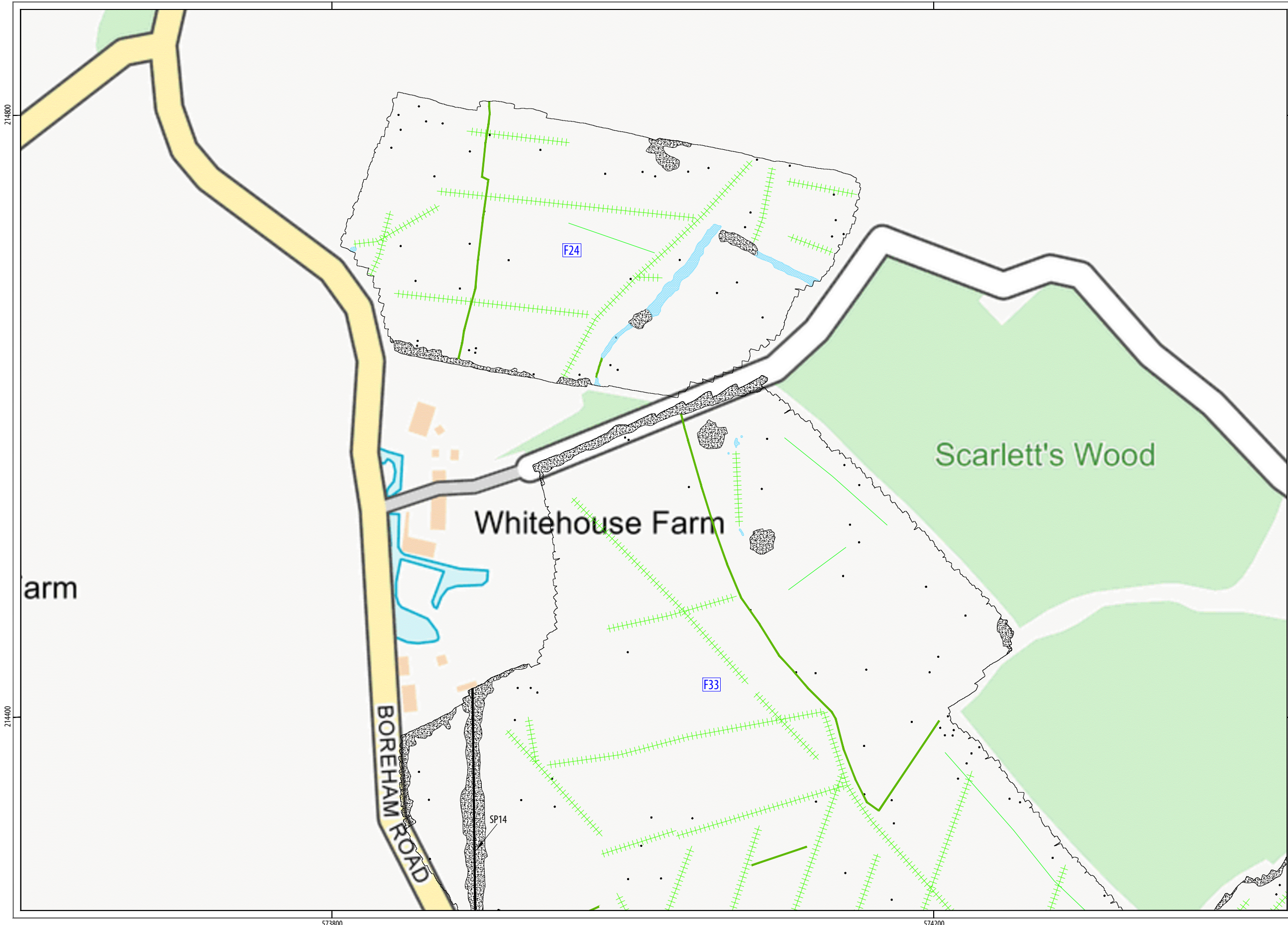
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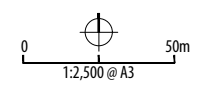
ILLUS 29 XY trace plot of minimally processed magnetometer data; Area 6





TYPE OF ANOMALY	INTERPRETATION
● dipolar isolated	ferrous material
● magnetic disturbance	ferrous material
— dipolar linear	service pipe
— magnetic interference	overhead cables
— linear trend	agricultural
— linear trend	field drain
— linear	former field boundary
⊕ magnetic enhancement	geology

ABBREVIATIONS  
 SP service pipe



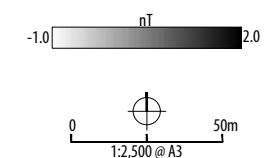
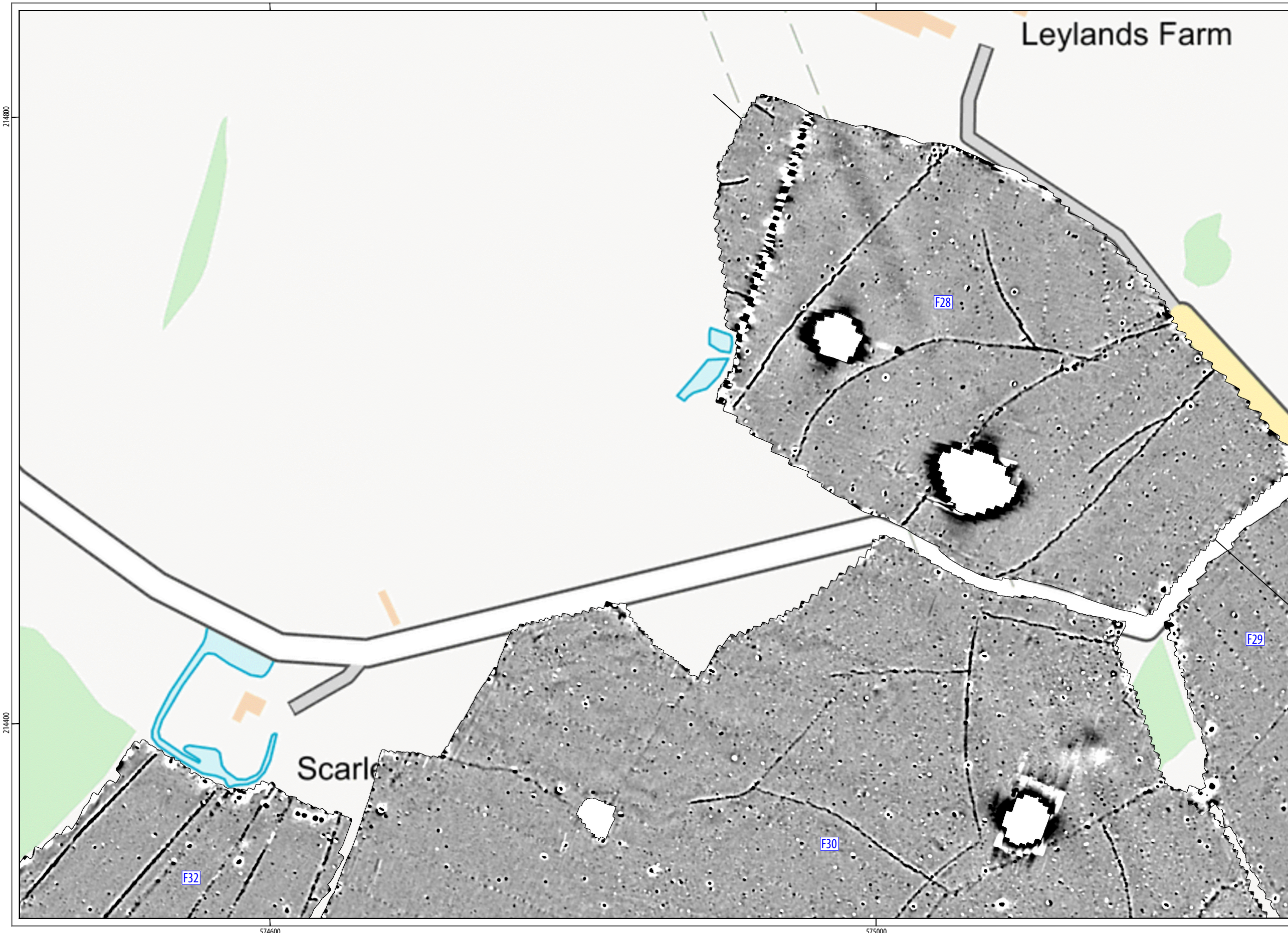
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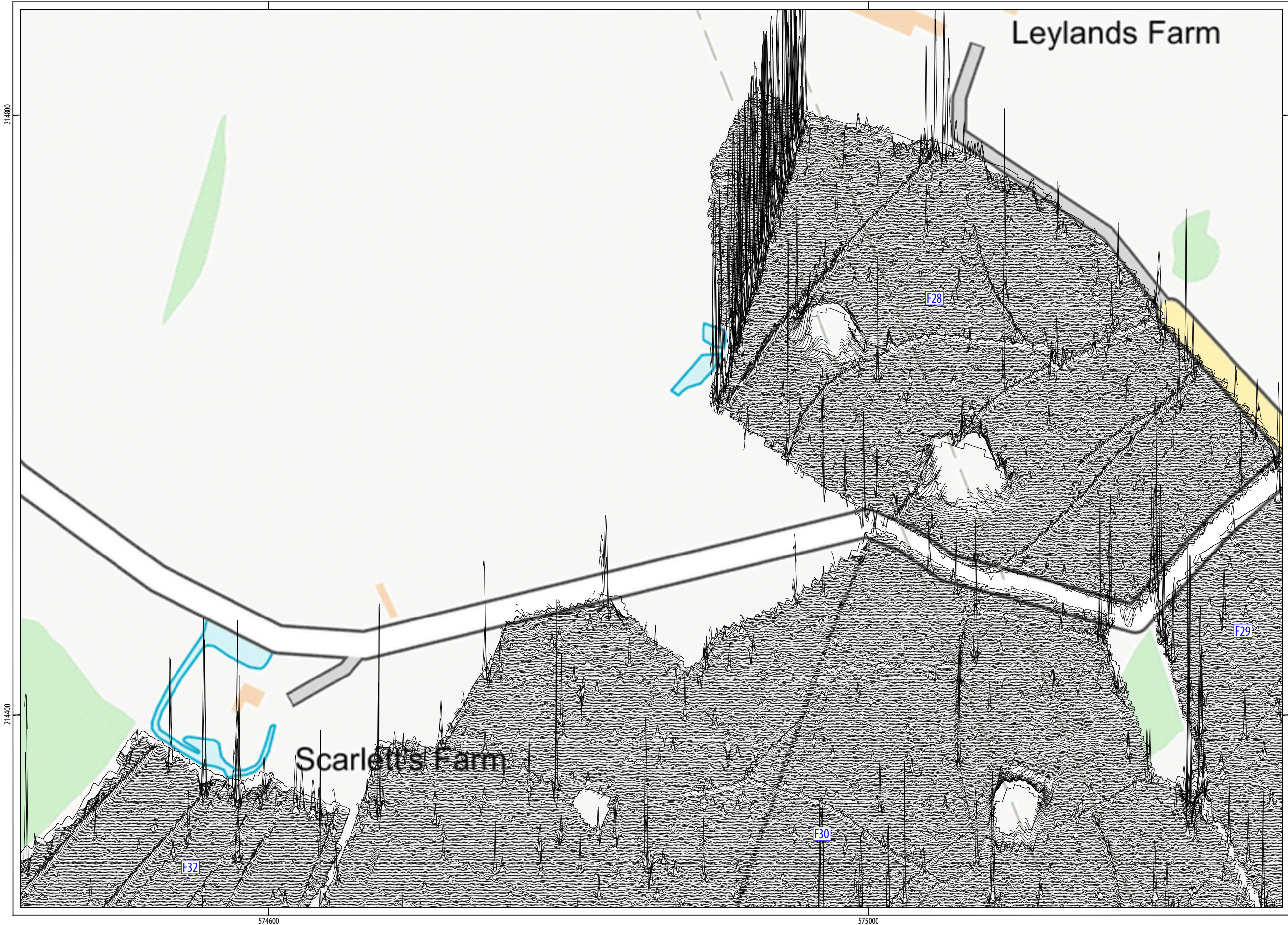
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ILLUS 31 Processed greyscale magnetometer data; Area 7





Leylands Farm

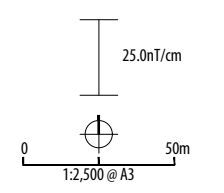
Scarlett's Farm

F28

F29

F30

F32



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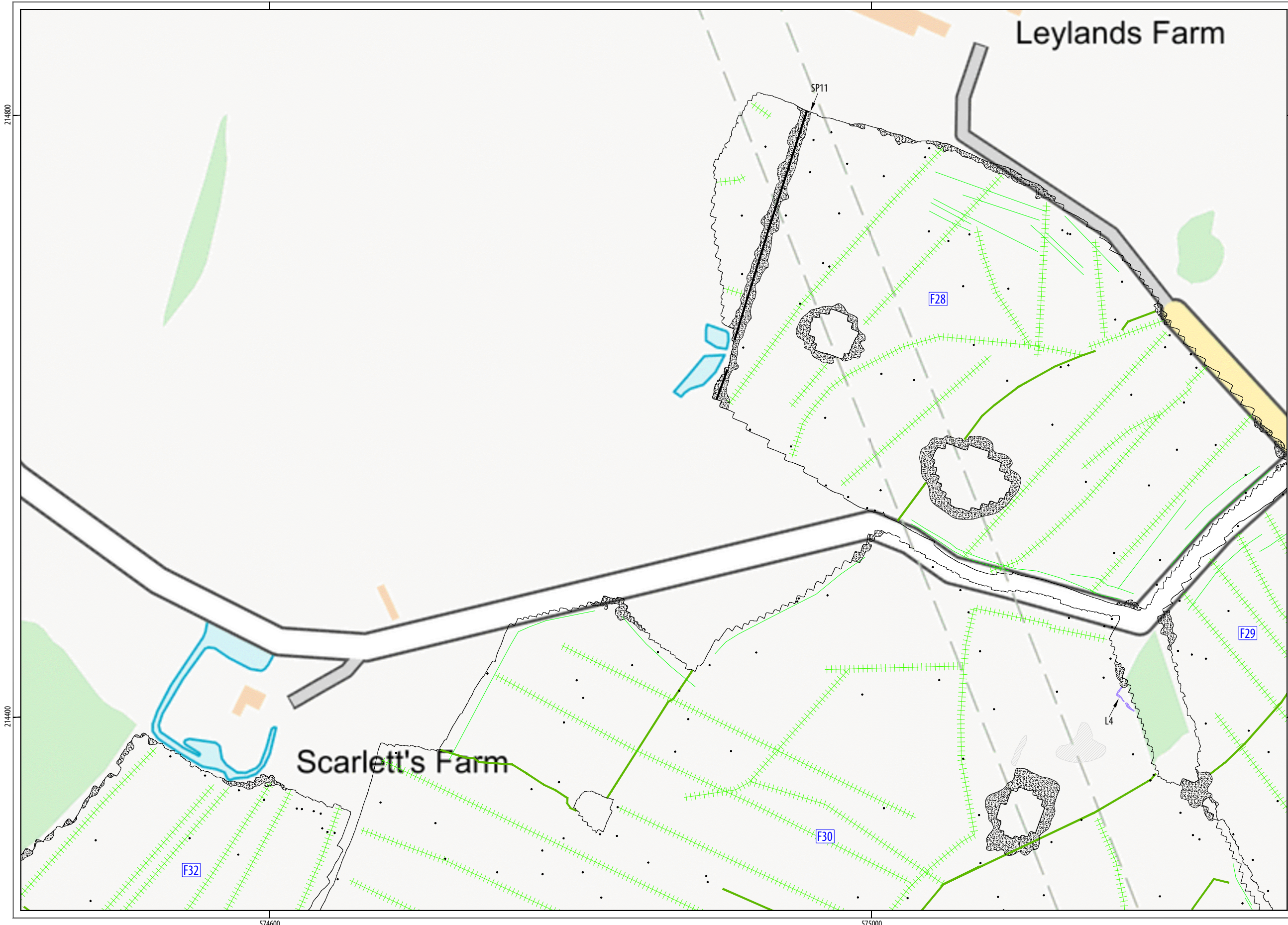
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574600

575000

ILLUS 32 XY trace plot of minimally processed magnetometer data; Area 7

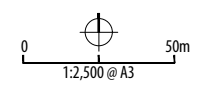




TYPE OF ANOMALY	INTERPRETATION
• dipolar isolated	ferrous material
● magnetic disturbance	ferrous material
— dipolar linear	service pipe
⊖ magnetic interference	overhead cables
— linear trend	agricultural
⊕ linear trend	field drain
— linear	former field boundary
⊗ magnetic enhancement	uncertain

ABBREVIATIONS

SP	service pipe
L	linear



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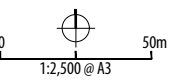
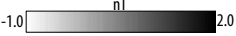


Gamble  
Green

Sparrow's Farm

Beggars Hall

WALTHAM ROAD



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