

## **Great North Road Solar and Biodiversity Park**

Environmental Statement

Volume 4 – Technical Appendices

Technical Appendix A11.5: Phase 2 Geophysics Results - Part 4 of 5

Document reference – EN010162/APP/6.4.11.5

Revision number 1

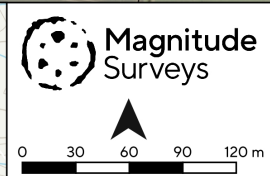
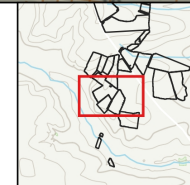
June 2025

Infrastructure Planning (Applications: Prescribed Forms and Procedure)  
Regulations 2009, APFP Regulation 5(2)(a)

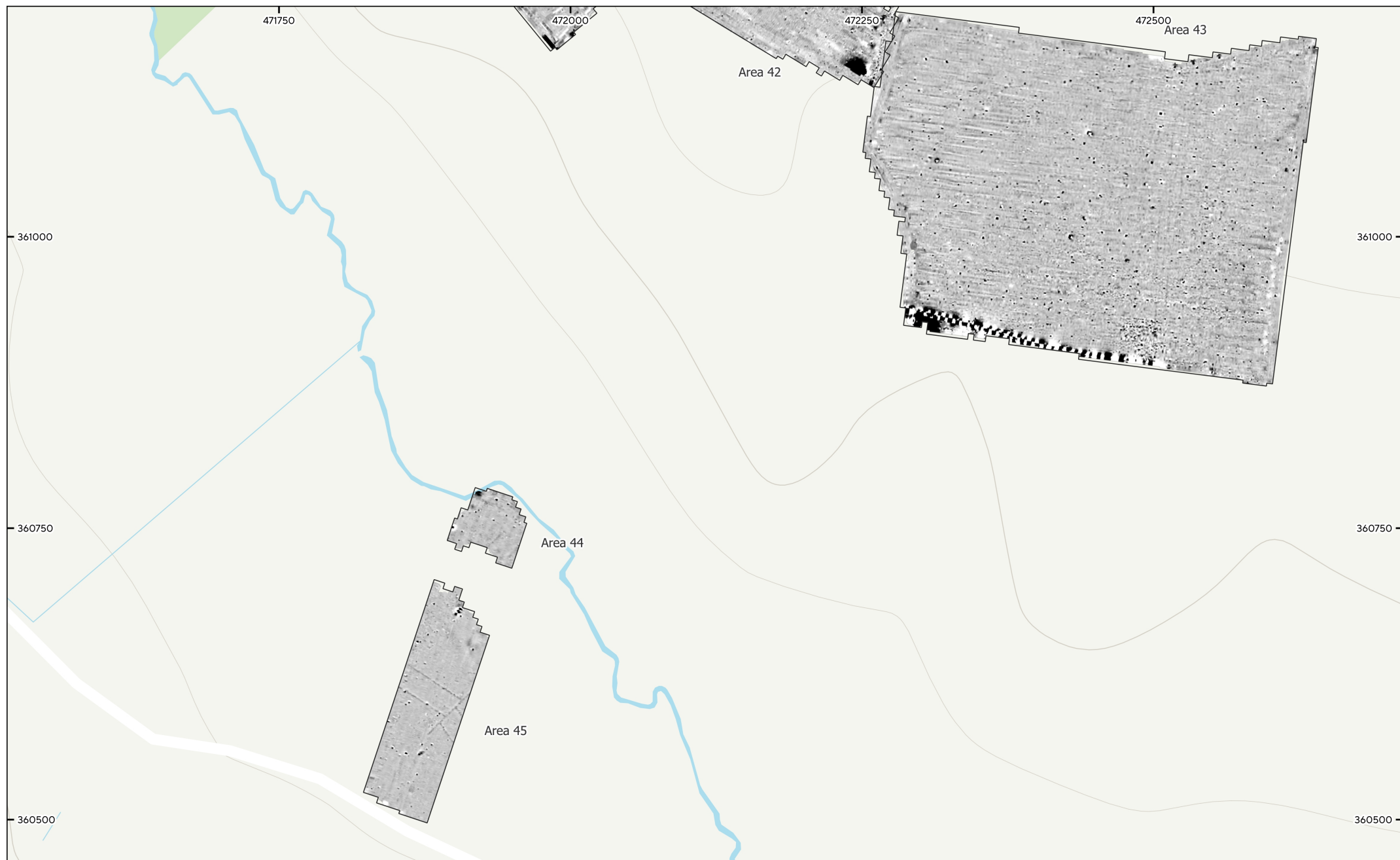


MSSK1838 - Great North Road Solar Farm, Staythorpe  
 Figure 30 - Magnetic Interpretation over Historical Mapping  
 (Areas 34, 40, 41, & 42)  
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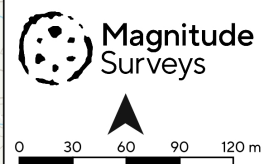
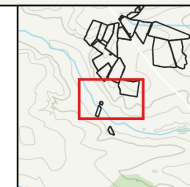
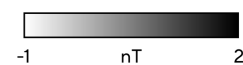
- |                             |                         |                          |
|-----------------------------|-------------------------|--------------------------|
| Agricultural (Spread)       | Magnetic Disturbance    | Service                  |
| Agricultural (Strong)       | Ferrous/Debris (Spread) | Ridge and Furrow (Trend) |
| Agricultural (Weak)         | Undetermined (Strong)   | Drainage Feature         |
| Archaeology Possible (Weak) | Undetermined (Weak)     | Ferrous (Spike)          |
| Archaeology Probable (Weak) | Agricultural (Trend)    |                          |







MSSK1838 - Great North Road Solar Farm, Staythorpe  
Figure 31 - Magnetic Gradient (Areas 43, 44, & 45)  
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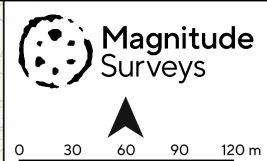
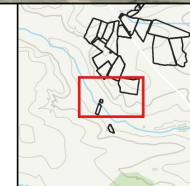




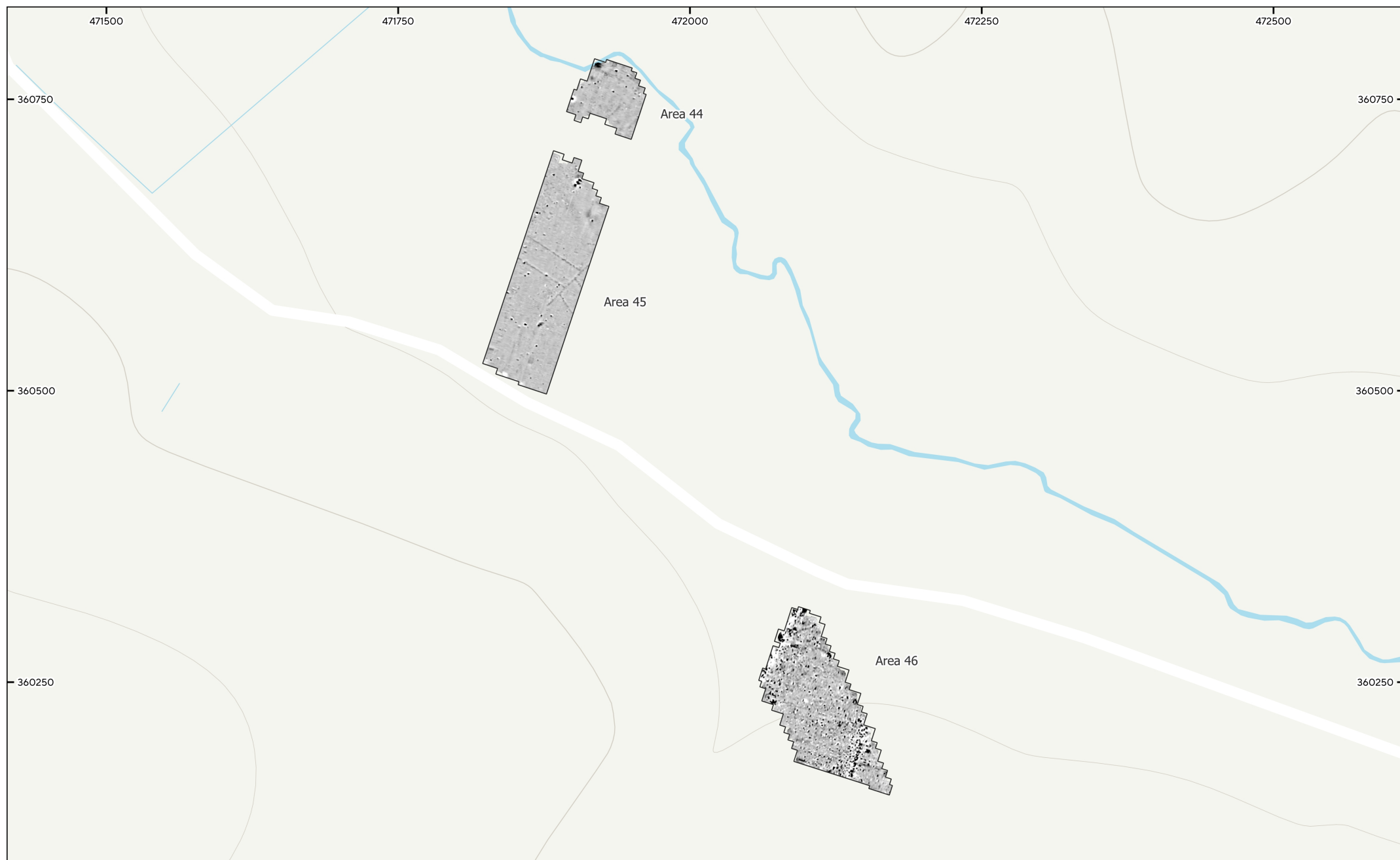


MSSK1838 - Great North Road Solar Farm, Staythorpe  
 Figure 32 - Magnetic Interpretation over Historical Mapping  
 (Areas 43, 44, & 45)  
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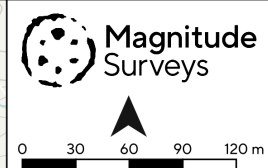
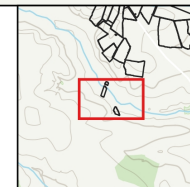
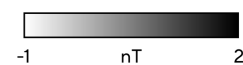
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|---------------------------|-------------------------|----------------------------|
| ■ Magnetic Disturbance    | ■ Undetermined (Strong) | — Ridge and Furrow (Trend) |
| ■ Ferrous/Debris (Spread) | ■ Undetermined (Weak)   | — Drainage Feature         |
| ■ Natural (Spread)        | — Agricultural (Trend)  | • Ferrous (Spike)          |
| ■ Natural (Weak)          | --- Service             |                            |







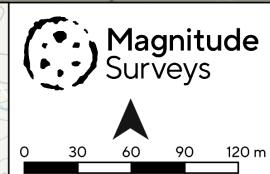
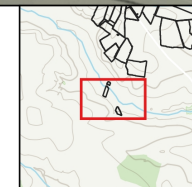
MSSK1838 - Great North Road Solar Farm, Staythorpe  
 Figure 33 - Magnetic Gradient (Areas 44, 45, & 46)  
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MSSK1838 - Great North Road Solar Farm, Staythorpe  
 Figure 34 - Magnetic Interpretation over Historical Mapping  
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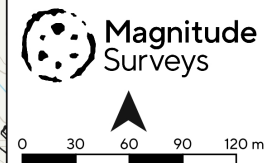
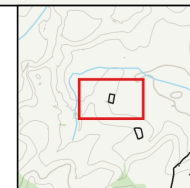
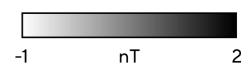
Agricultural (Weak)    Natural (Spread)    Undetermined (Weak)  
 Magnetic Disturbance    Natural (Weak)    Drainage Feature  
 Ferrous/Debris (Spread)    Undetermined (Strong)    Ferrous (Spike)





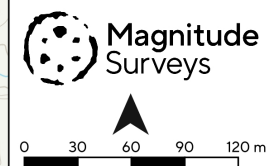
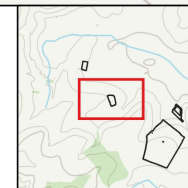
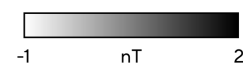


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Figure 35 - Magnetic Gradient (Area 47)  
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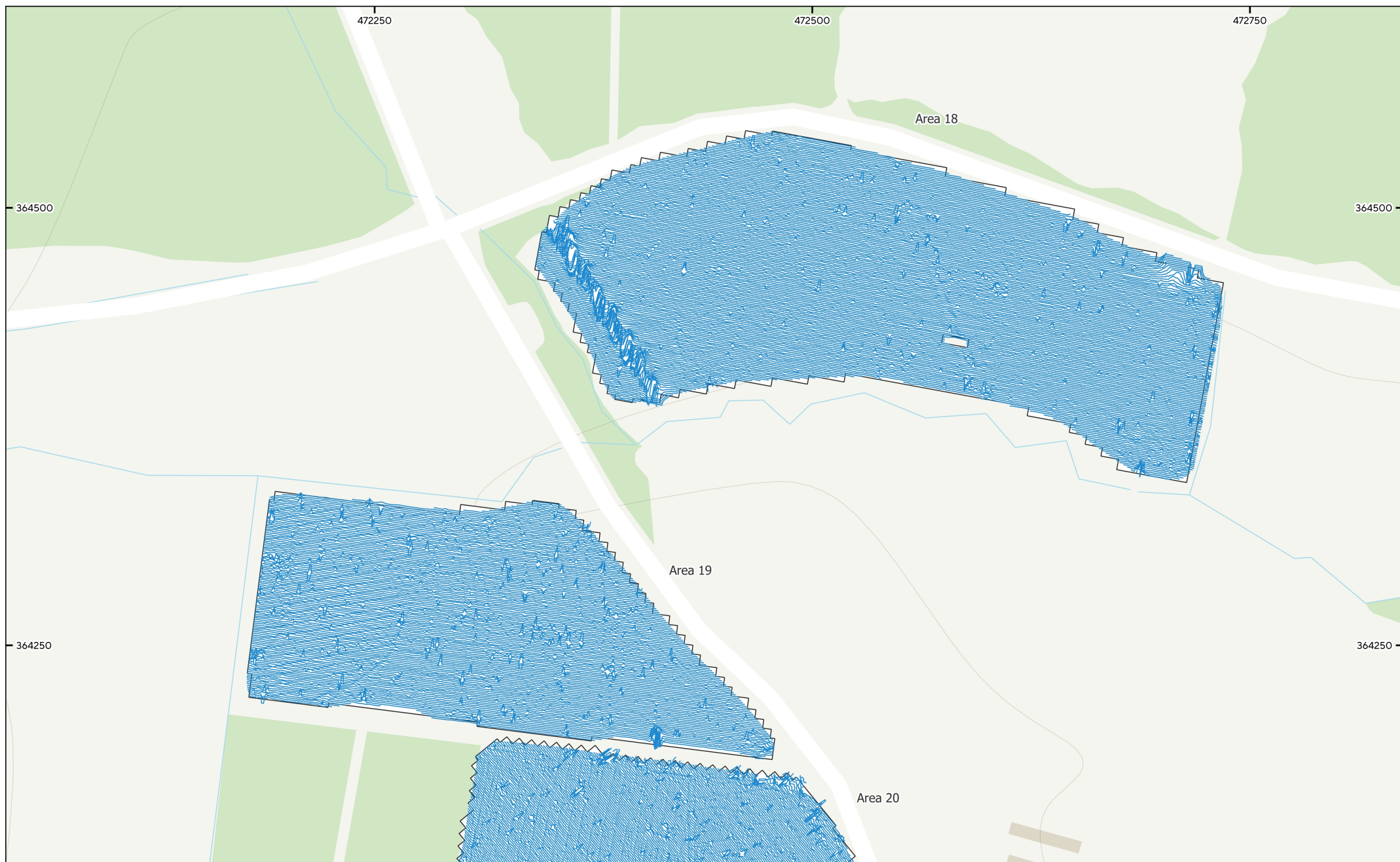




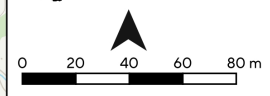
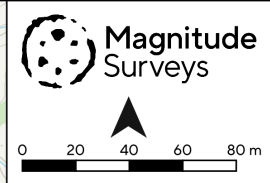
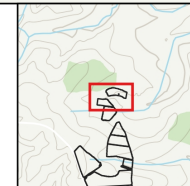
MSSK1838 - Great North Road Solar Farm, Staythorpe  
Figure 37 - Magnetic Gradient (Area 48)  
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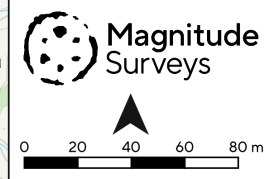
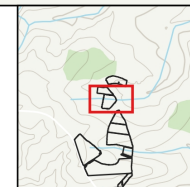
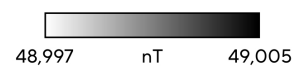


MSSK1838 - Great North Road Solar Farm, Staythorpe  
Figure 100 - XY Trace Plot (Areas 18 & 19)  
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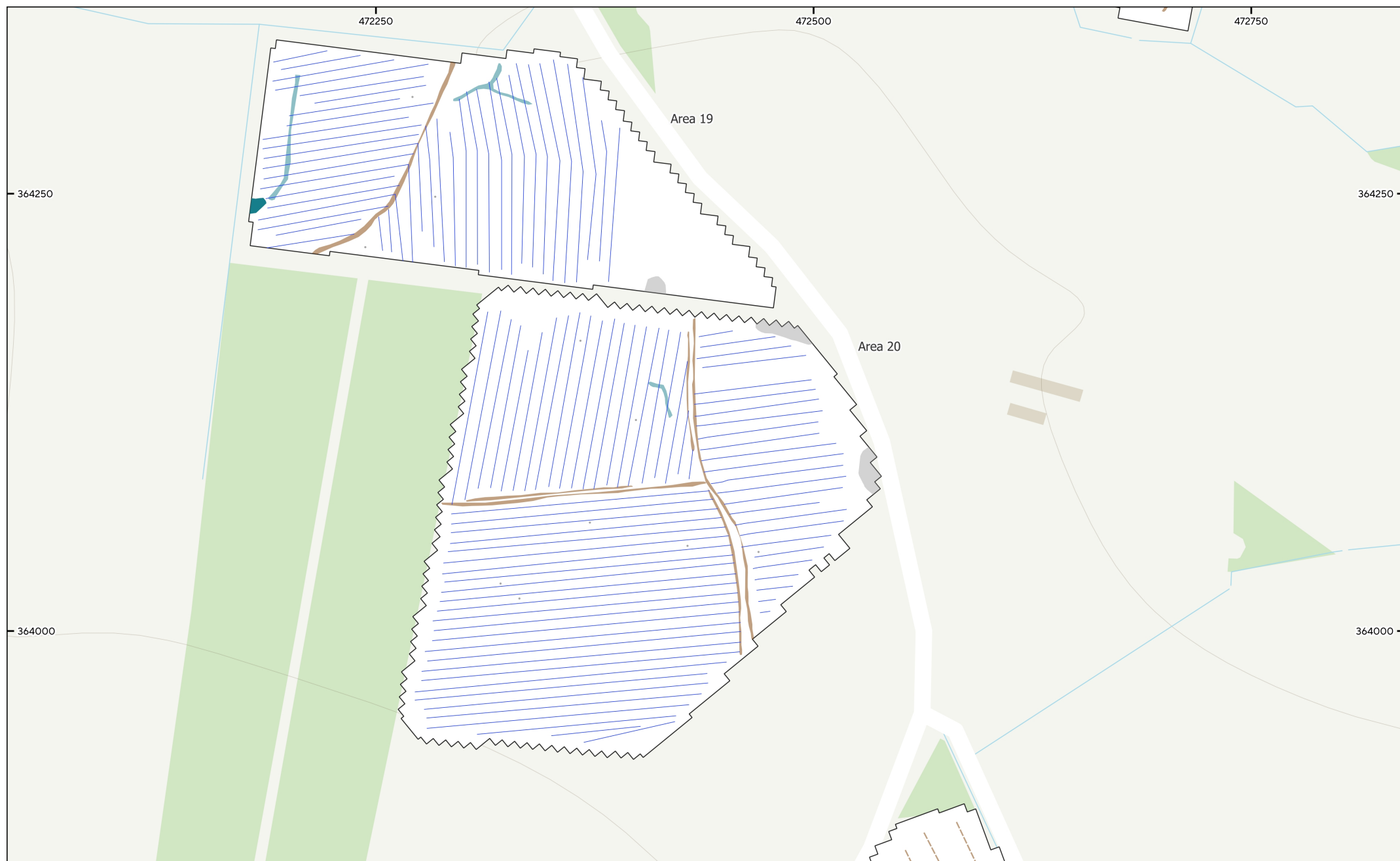




MSSK1838 - Great North Road Solar Farm, Staythorpe  
 Figure 101 - Magnetic Total Field (Lower Sensor) (Areas 19 & 20)  
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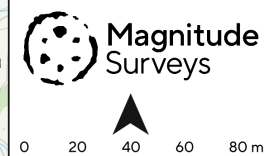
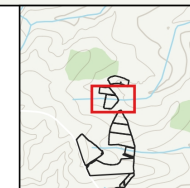


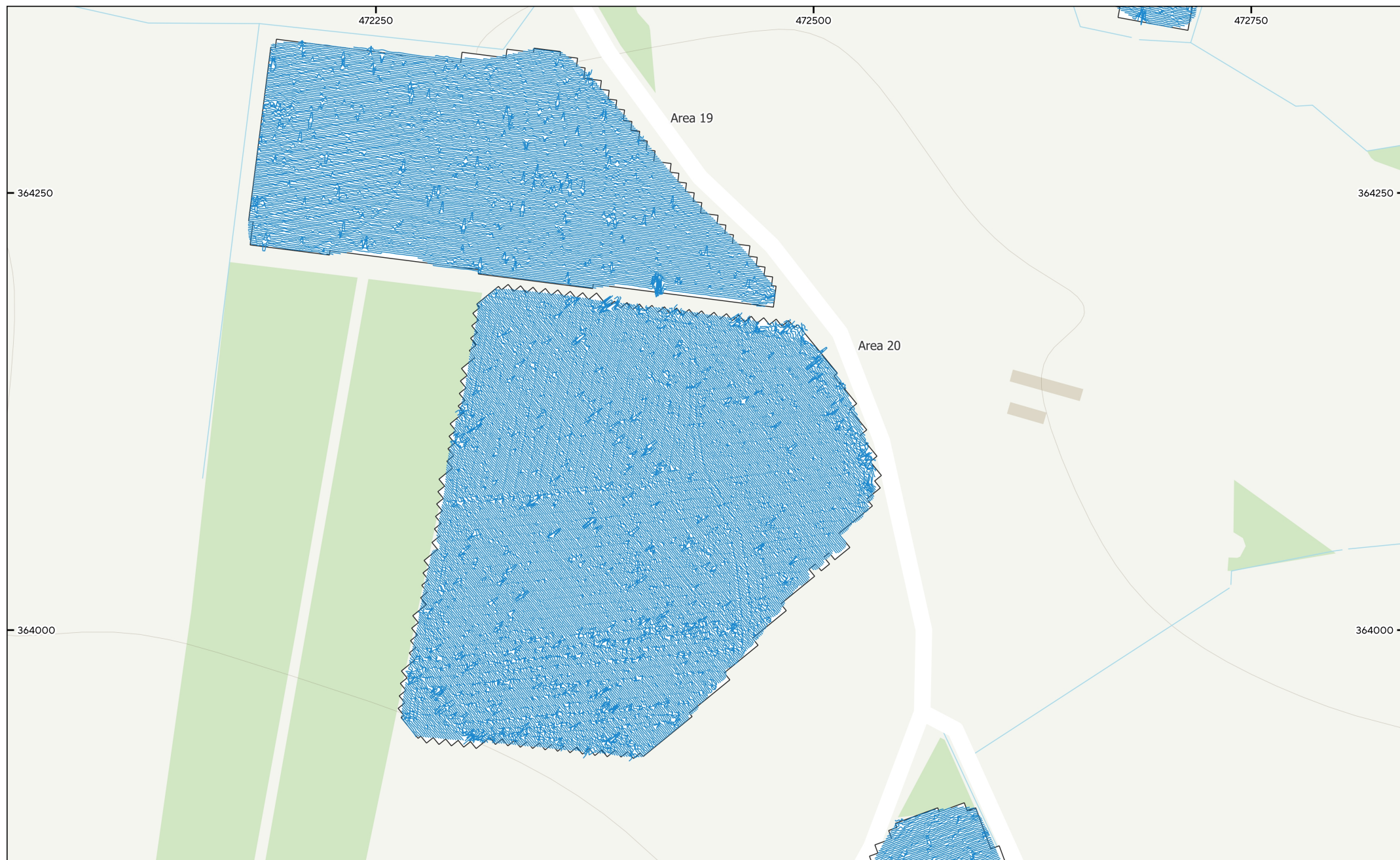




MSSK1838 - Great North Road Solar Farm, Staythorpe  
 Figure 102 - Magnetic Interpretation (Areas 19 & 20)  
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- |                       |                          |                 |
|-----------------------|--------------------------|-----------------|
| Agricultural (Weak)   | Undetermined (Weak)      | Ferrous (Spike) |
| Magnetic Disturbance  | Ridge and Furrow (Trend) |                 |
| Undetermined (Strong) | Drainage Feature         |                 |





MSSK1838 - Great North Road Solar Farm, Staythorpe  
Figure 103 - XY Trace Plot (Areas 19 & 20)  
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