

Site Details:

Client Ref: EMS_491528_661068
Report Ref: EMS-DE-491528_661068
Grid Ref: 408834, 418120

Map Name: Provisional

Map date: 1966-1967

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1967 Revised 1967 Edition N/A Copyright N/A Levelled N/A	Surveyed 1966 Revised 1966 Edition N/A Copyright N/A Levelled N/A
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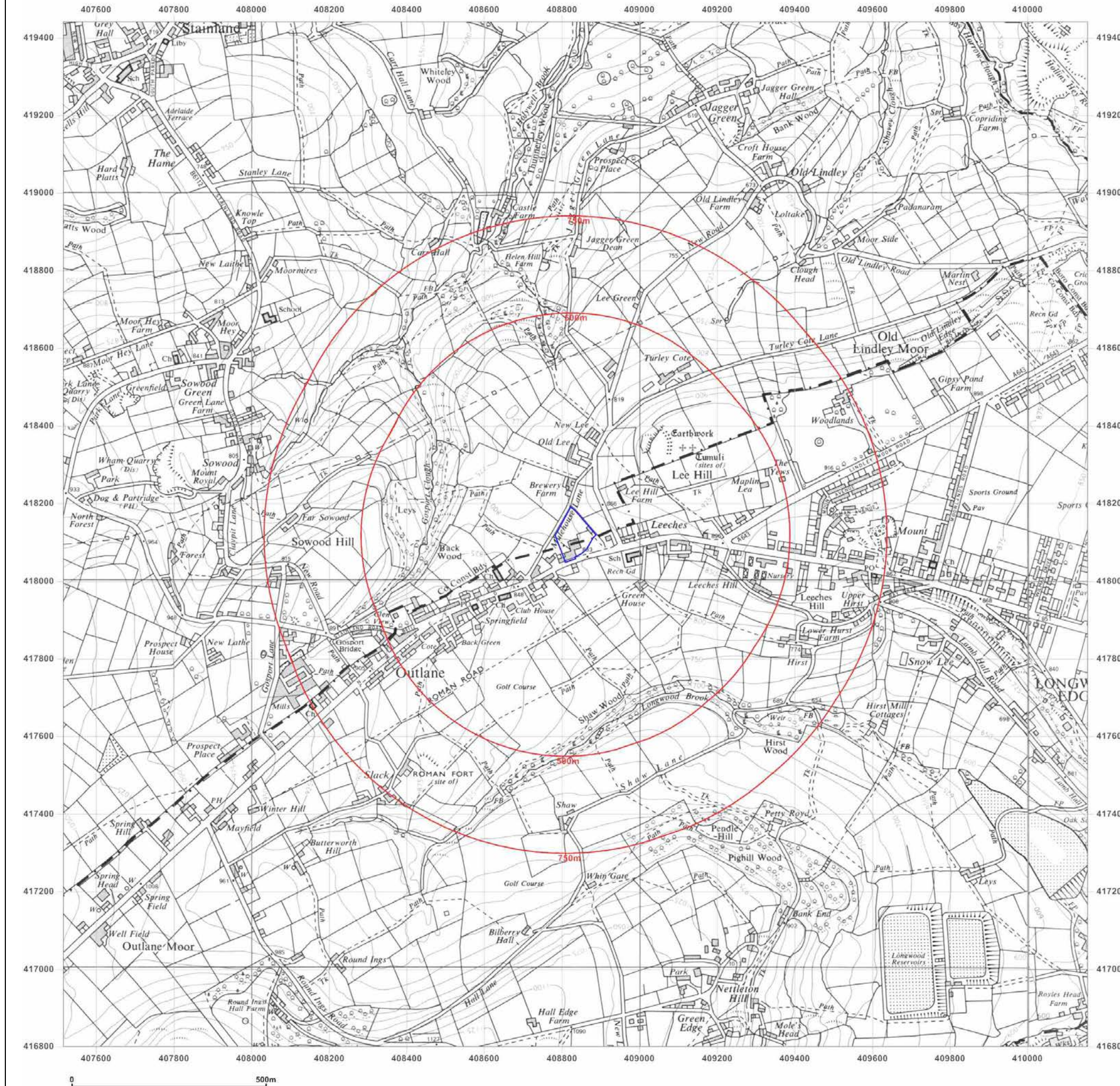


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0 500m

Site Details:

Client Ref: EMS_491528_661068
 Report Ref: EMS-DE-491528_661068
 Grid Ref: 408834, 418120

Map Name: National Grid

Map date: 1973-1974

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1974
 Revised 1974
 Edition N/A
 Copyright 1975
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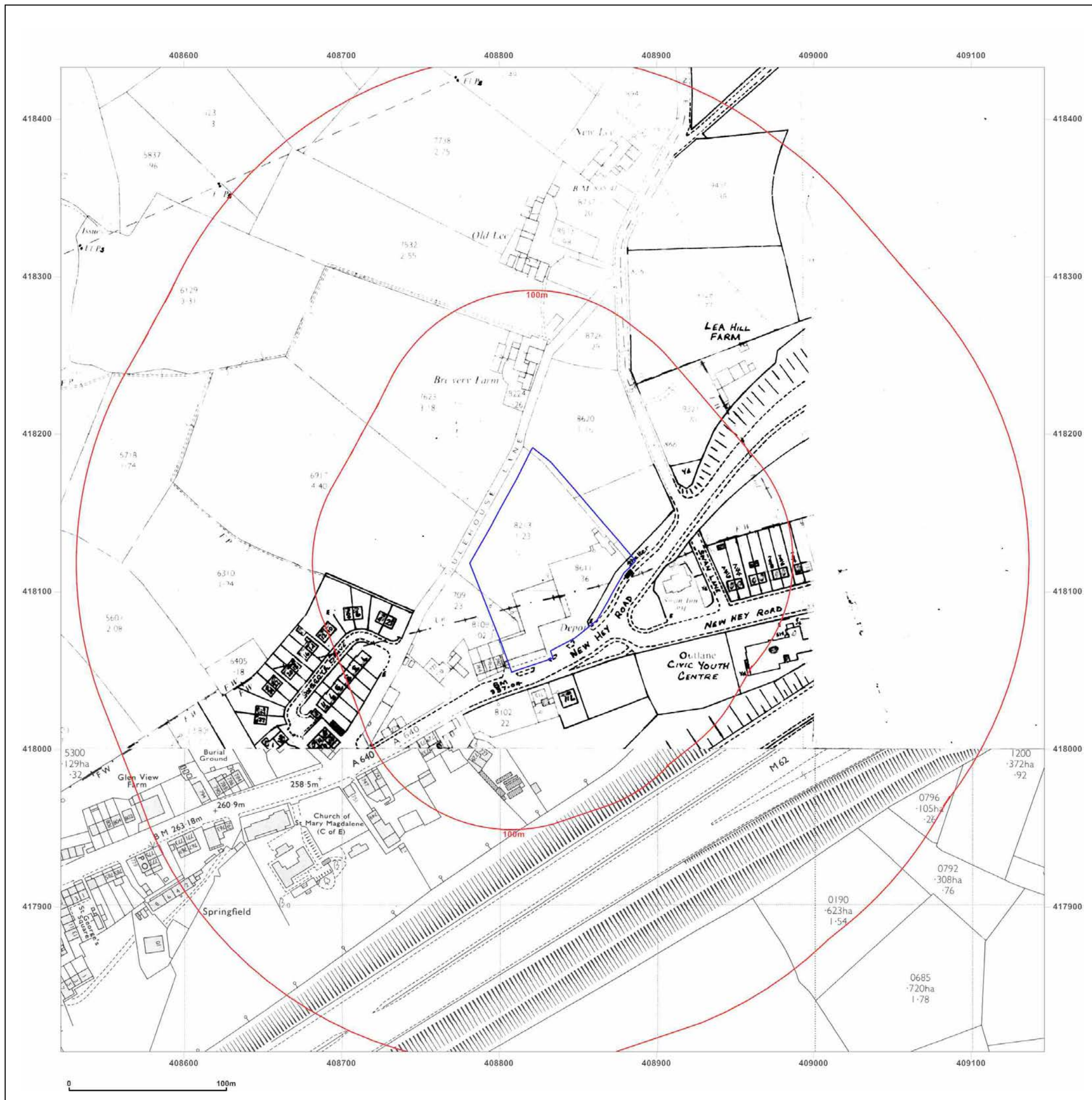


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Site Details:

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 Report Ref: EMS-DE-491528_661068
 Grid Ref: 408834, 418120

Map Name: National Grid

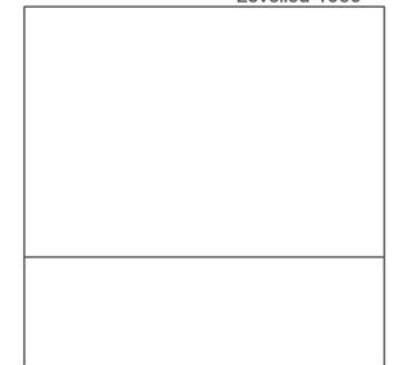
Map date: 1975

Scale: 1:2,500

Printed at: 1:2,500



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Site Details:

Client Ref: EMS_491528_661068
 Report Ref: EMS-DE-491528_661068
 Grid Ref: 408834, 418120

Map Name: National Grid

Map date: 1975-1977

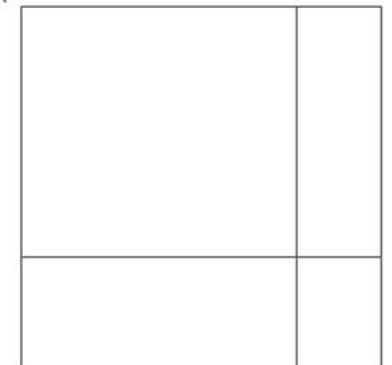
Scale: 1:2,500

Printed at: 1:2,500



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 Revised N/A
 Edition N/A
 Copyright N/A
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Surveyed N/A
 Revised N/A
 Edition N/A
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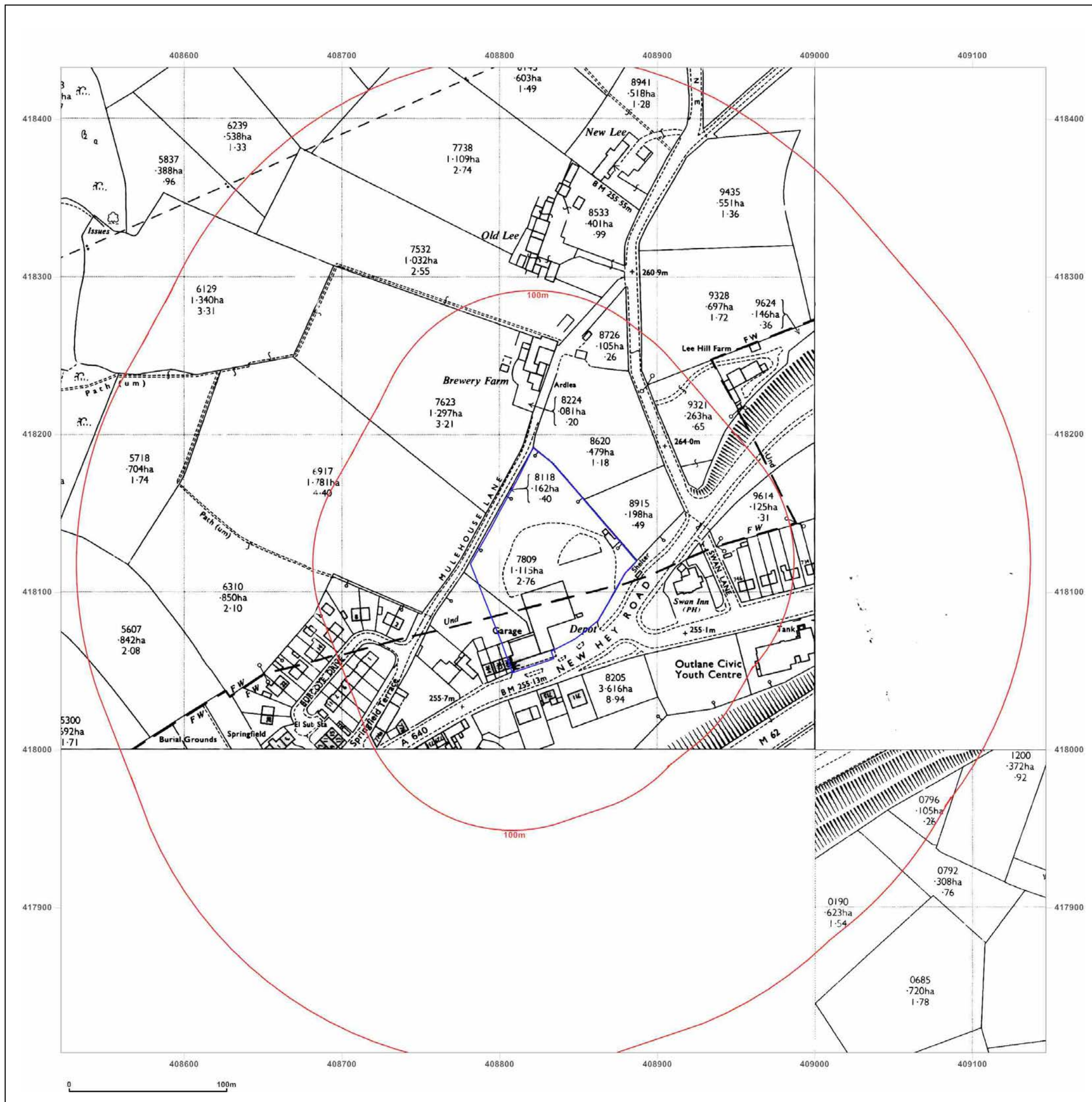


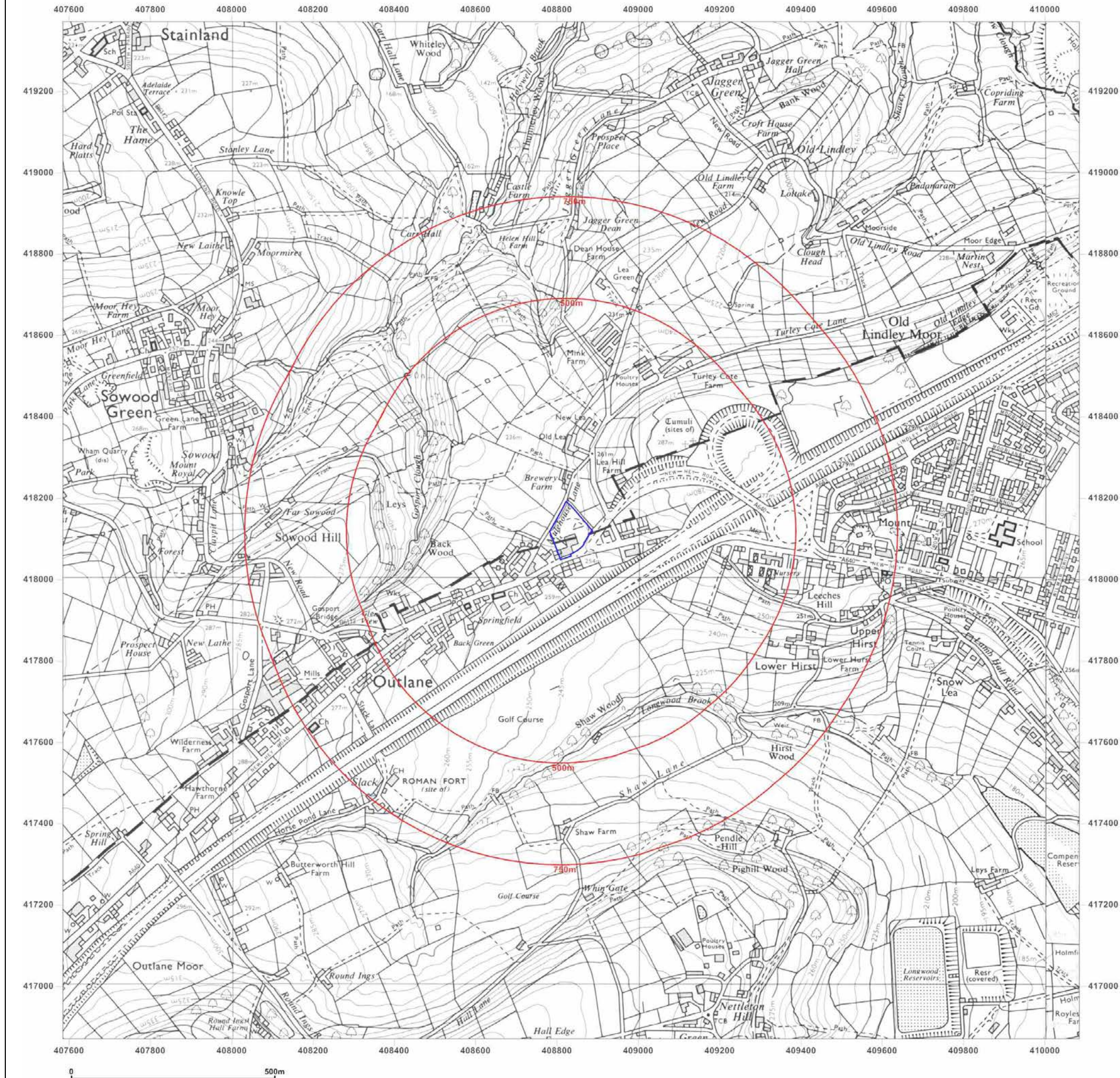
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Site Details:

Client Ref: EMS_491528_661068
 Report Ref: EMS-DE-491528_661068
 Grid Ref: 408834, 418120

Map Name: National Grid

Map date: 1975-1978

Scale: 1:10,000

Printed at: 1:10,000



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 Revised 1978
 Edition N/A
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Site Details:

Client Ref: EMS_491528_661068
Report Ref: EMS-DE-491528_661068
Grid Ref: 408834, 418120

Map Name: National Grid

Map date: 1984

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1984
Levelled 1959



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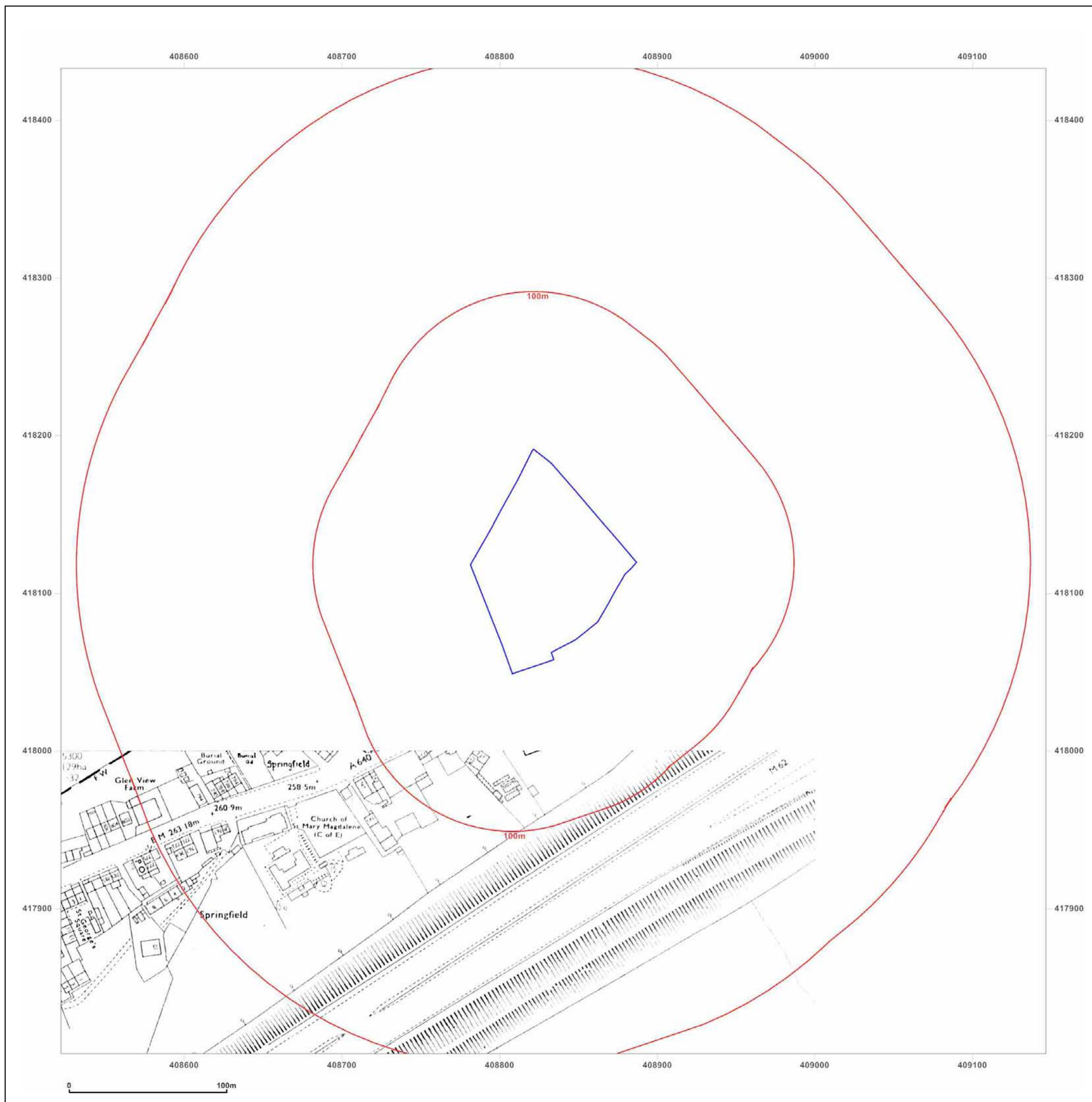


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Grid Ref: 408834, 418120

Map Name: National Grid

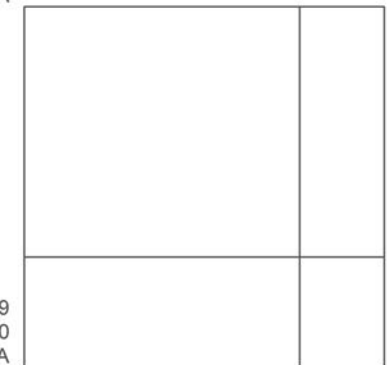
Map date: 1990-1995

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
 Revised N/A
 Edition N/A
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 Revised 1990
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Client Ref: EMS_491528_661068
Report Ref: EMS-DE-491528_661068
Grid Ref: 408834, 418120

Map Name: National Grid

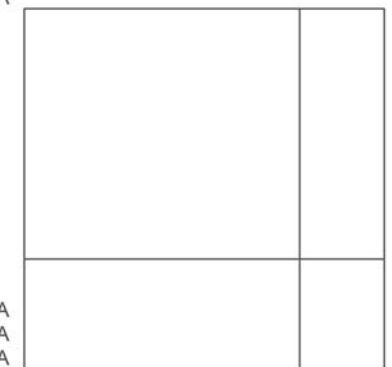
Map date: 1993-1995

Scale: 1:2,500

Printed at: 1:2,500



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 Edition N/A
 Copyright 1994
 Levelled N/A



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1993
 Levelled N/A

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 Revised N/A
 Edition N/A
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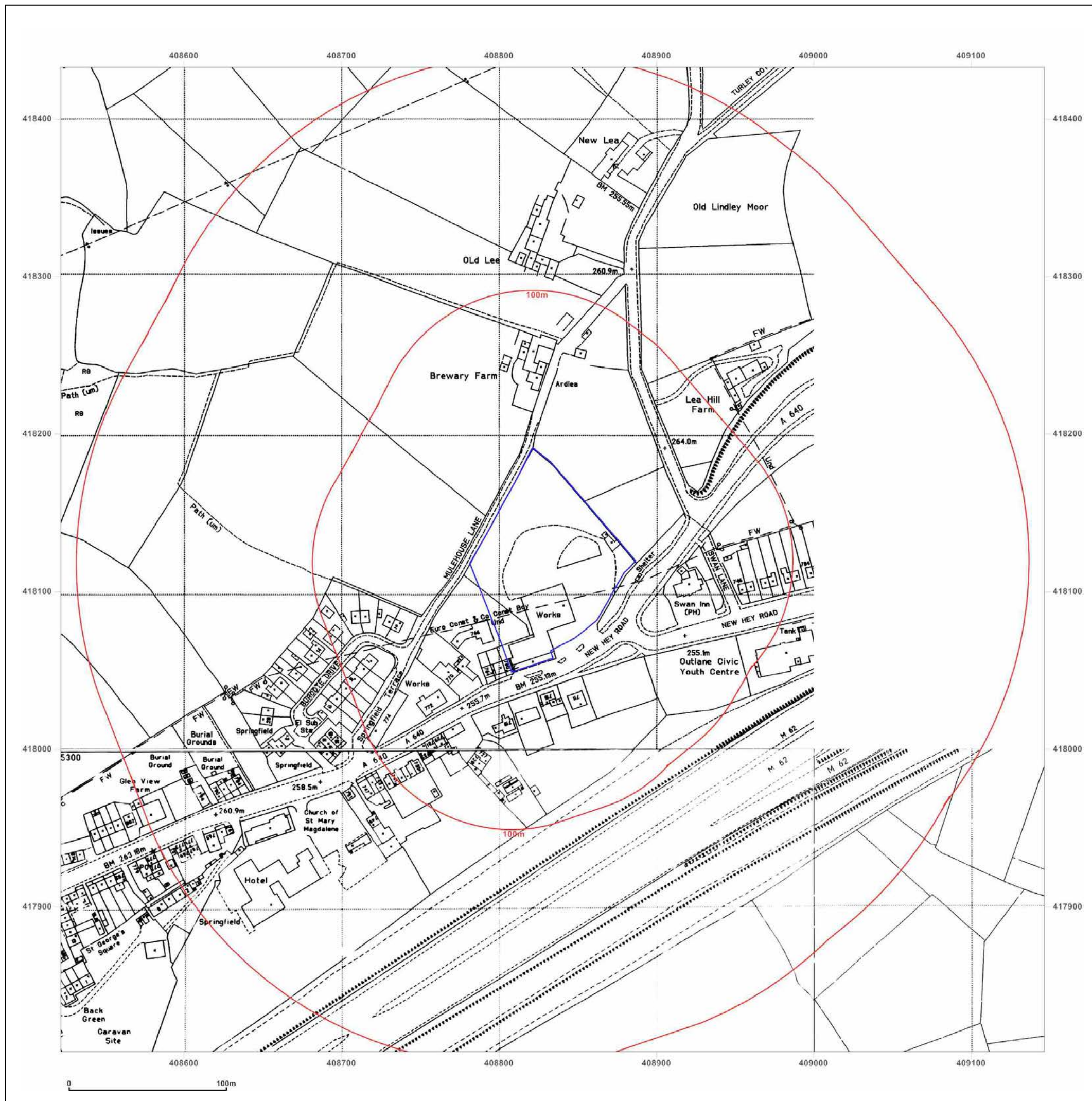


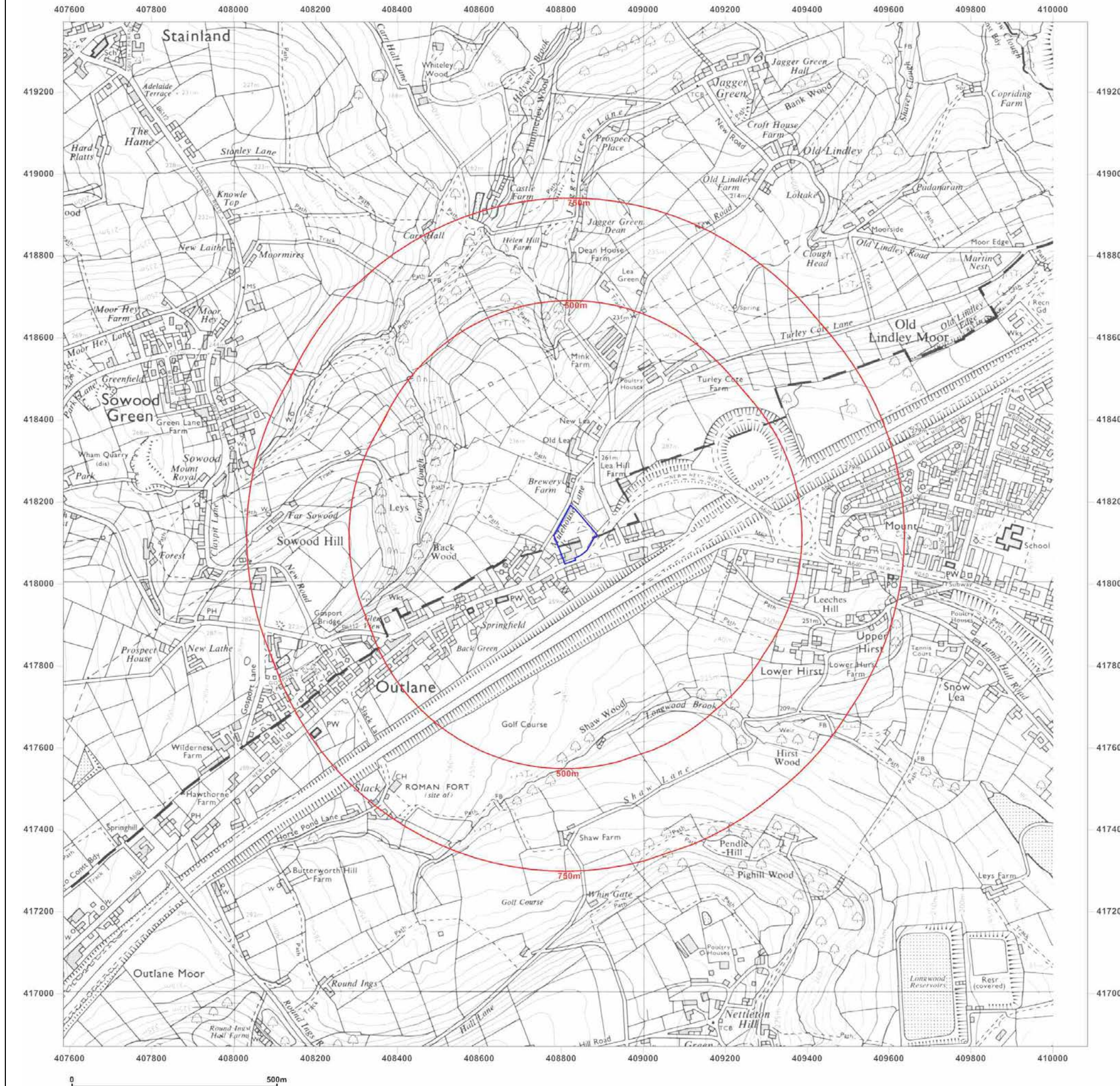
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Site Details:

Client Ref: EMS_491528_661068
Report Ref: EMS-DE-491528_661068
Grid Ref: 408834, 418120

Map Name: National Grid

Map date: 1993

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1977
 Revised 1993
 Edition N/A
 Copyright N/A
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Site Details:

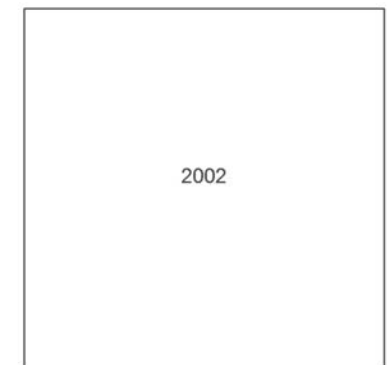
Client Ref: EMS_491528_661068
 Report Ref: EMS-DE-491528_661068
 Grid Ref: 408834, 418120

Map Name: 1:10,000 Raster

Map date: 2002

Scale: 1:10,000

Printed at: 1:10,000



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Map legend available at:
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Site Details:

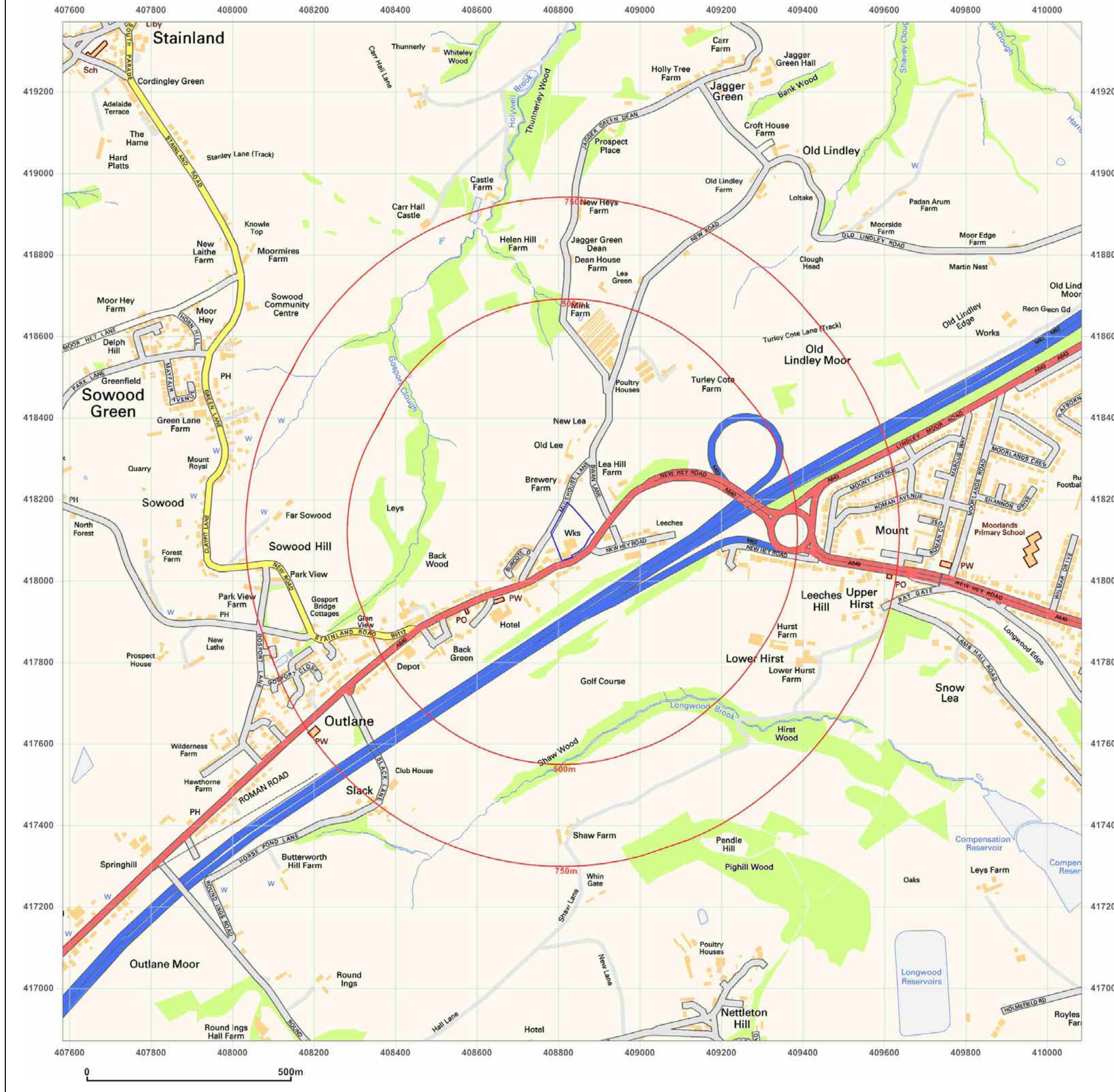
Client Ref: EMS_491528_661068
 Report Ref: EMS-DE-491528_661068
 Grid Ref: 408834, 418120

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



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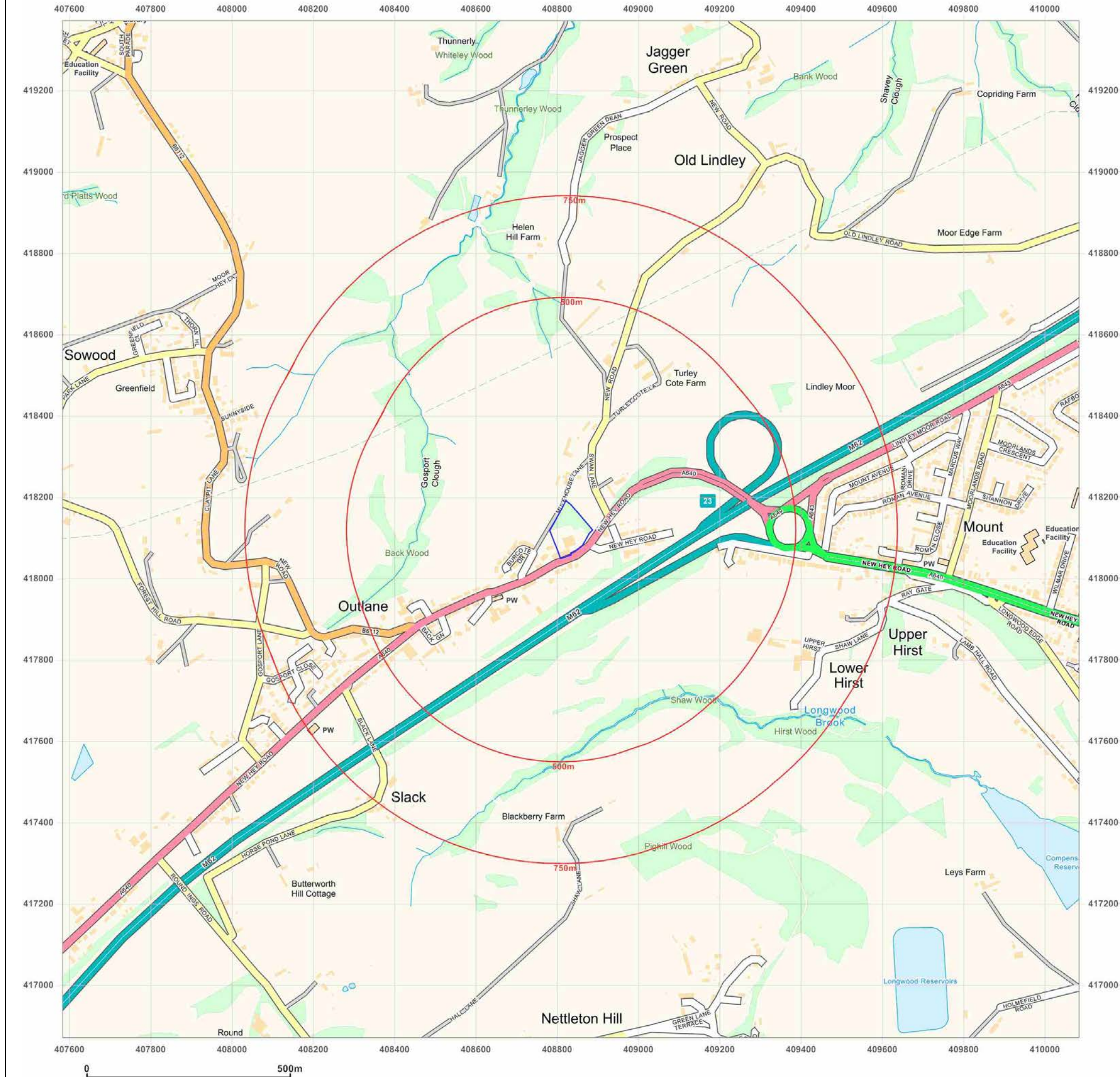


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Site Details:

Client Ref: EMS_491528_661068
 Report Ref: EMS-DE-491528_661068
 Grid Ref: 408834, 418120

Map Name: National Grid

Map date: 2014

Scale: 1:10,000

Printed at: 1:10,000



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Production date: 25 July 2018

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APPENDIX J: GROUNDSURE REPORTS

Demeter Environmental Ltd
Hanover House, Hanover Street,
Liverpool, L3 3DZ

Report Reference: EMS-DE-491528_661069

Your Reference: EMS_491528_661069

Report Date 25 Jul 2018

Report Delivery Method: Email - pdf

Geo Insight

Address: ,

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Geo Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159 000 quoting the above Groundsure reference number.

Yours faithfully,

Demeter Environmental ltd

Enc.
Groundsure Geo Insight

Address: ,
Date: 25 Jul 2018
Reference: EMS-DE-491528_661069
Client: Demeter Environmental Ltd

NW N NE



SW S SE

Aerial Photograph Capture date: 26-Mar-2012
Grid Reference: 408830,418117
Site Size: 0.83ha



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Overview of Findings

The Groundsure Geo Insight provides high quality geo-environmental information that allows geo-environmental professionals and their clients to make informed decisions and be forewarned of potential ground instability problems that may affect the ground investigation, foundation design and possibly remediation options that could lead to possible additional costs.

The report is based on the BGS 1:50,000 and 1:10,000 Digital Geological Map of Great Britain, BGS Geosure data; BRITPITS database; Non-coal mining data and Borehole Records, Coal Authority data including brine extraction areas, PBA non-coal mining and natural cavities database, Johnson Poole and Bloomer mining data and Groundsure's unique database including historical surface ground and underground workings.

For further details on each dataset, please refer to each individual section in the report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Section 1: Geology 1:10,000 Scale

1.1 Artificial Ground	1.1 Is there any Artificial Ground/ Made Ground present beneath the study site at 1:10,000 scale?	No
1.2 Superficial Geology and Landslips	1.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site at 1:10,000 scale?*	No
	1.2.2 Are there any records of landslip within 500m of the study site boundary at 1:10,000 scale?	Yes
1.3 Bedrock, Solid Geology and linear features	1.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section.	
	1.3.2 Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale?	Yes

Section 2: Geology 1:50,000 Scale

2.1 Artificial Ground	2.1.1 Is there any Artificial Ground/ Made Ground present beneath the study site?	No
	2.1.2 Are there any records relating to permeability of artificial ground within the study site*boundary?	No
2.2 Superficial Geology and Landslips	2.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site?*	No
	2.2.2 Are there any records of permeability of superficial ground within 500m of the study site?	No
	2.2.3 Are there any records of landslip within 500m of the study site boundary?	Yes
	2.2.4 Are there any records relating to permeability of landslips within the study site* boundary?	No

Section 2: Geology 1:50,000 Scale

2.3 Bedrock, Solid Geology and linear features

2.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section.

2.3.2 Are there any records relating to permeability of bedrock ground within the study site boundary?

Yes

2.3.3 Are there any records of linear features within 500m of the study site boundary?

Yes

Section 3: Radon

3. Radon

3.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?

The property is in a Radon Affected Area, as between 3 and 5% of properties are above the Action Level.

3.2 Radon Protection

Basic radon protective measures are necessary.

Section 4: Ground Workings

	On-site	0-50m	51-250	251-500	501-1000
4.1 Historical Surface Ground Working Features from Small Scale Mapping	0	0	6	Not Searched	Not Searched
4.2 Historical Underground Workings from Small Scale Mapping	0	0	0	0	0
4.3 Current Ground Workings	0	0	1	2	14

Section 5: Mining, Extraction & Natural Cavities

	On-site	0-50m	51-250	251-500	501-1000
5.1 Historical Mining	0	0	0	0	0
5.2 Coal Mining	1	0	0	0	0
5.3 Johnson Poole and Bloomer Mining Area	0	0	0	0	0
5.4 Non-Coal Mining*	1	0	0	0	1
5.5 Non-Coal Mining Cavities	0	0	0	0	0
5.5 Natural Cavities	0	0	0	0	0

Section 5: Mining, Extraction & Natural Cavities	On-site	0-50m	51-250	251-500	501-1000
5.6 Brine Extraction	0	0	0	0	0
5.7 Gypsum Extraction	0	0	0	0	0
5.8 Tin Mining	0	0	0	0	0
5.9 Clay Mining	0	0	0	0	0
Section 6: Natural Ground Subsidence	On-site				
6.1 Shrink-Swell Clay	Very Low				
6.2 Landslides	Low				
6.3 Ground Dissolution of Soluble Rocks	Negligible				
6.4 Compressible Deposits	Negligible				
6.5 Collapsible Deposits	Very Low				
6.5 Running Sand	Negligible				
Section 7: Borehole Records	On-site	0-50m	51-250		
7 BGS Recorded Boreholes	0	1	7		
Section 8: Estimated Background Soil Chemistry	On-site	0-50m	51-250		
8 Records of Background Soil Chemistry	1	2	0		
Section 9: Railways and Tunnels	On-site	0-50m	51-250	250-500	
9.1 Tunnels	0	0	0	Not Searched	
9.2 Historical Railway and Tunnel Features	0	0	0	Not Searched	
9.3 Historical Railways	0	0	0	Not Searched	
9.4 Active Railways	0	0	0	Not Searched	
9.5 Railway Projects	0	0	0	0	