



WEST BARN, BRIZLINCOTE HALL, BURTON UPON TRENT

PHASE I GEO-ENVIRONMENTAL ASSESSMENT
FOR
MR M. SIMPKINS

Project Ref:
EAL.38.22

Date:
May 2022

Prepared for:
Mr M. Simpkins
Brizlincote Hall
Brizlincote Lane
Burton Upon Trent
Staffordshire
DE15 9AJ

Prepared and Authorised by:		Phil Devitt BSc MSc MRICS <i>Director</i>
Date:	May 2022	
Version:	1.0	

Executive Summary

This presents the salient points of the report and should not be referred to in isolation. The conclusions and recommendations presented below are considered reasonable based on the findings of the site investigation. However, these cannot be guaranteed to gain regulatory approval and therefore copies of this report should be sent to the appropriate Regulatory Authorities and / or other organisations (as appropriate) by the Client for their comments and approval prior to undertaking any irrecoverable works associated with the subject site.

SUMMARY TABLE: PHASE I GEO-ENVIRONMENTAL ASSESSMENT	
SITE:	West Barn, Brizlincote Hall, Burton Upon Trent
CLIENT:	Mr M. Simpkins
DATE:	May 2022
OUR REFERENCE:	EAL.38.22
PLANNING REFERENCE:	DMPA/2021/1711
DEVELOPMENT PROPOSAL:	Rebuilding and conversion of existing barn into a residential dwelling with associated amenity space and courtyard parking.
HUMAN HEALTH:	No significant risk identified – no further investigation works required.
CONTROLLED WATERS:	No significant risk identified – no further investigation works required.
GAS RISK:	No significant risk identified – no further investigation works required.
RADON GAS:	Radon protection measures will not be required.
WATER PIPE SPECIFICATION:	Standard water pipes should be suitable.
COMMENTS:	None.

The executive summary given above is an overview of the key findings and conclusions of the report. There may be other information contained in the body of the report which puts into context the findings of the executive summary. No reliance should be placed on the executive summary until the whole report has been read in full.

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Environmental Data Summary

1.0 INTRODUCTION

1.1 PREAMBLE

This Phase I Geo-Environmental Assessment has been produced for Mr M. Simpkins (hereafter referred to as 'the client') to provide a pre-development contamination and geotechnical assessment of the site known as *West Barn, Brizlincote Hall, Burton Upon Trent*. Site location and boundary plans are included in **Appendix A**.

1.2 PROJECT BRIEF

The brief for the Phase I Geo-Environmental Assessment incorporates:

- A review and assessment of the site history, with reference to potentially contaminative uses.
- A review of regulatory authority and environmental data relating to the site and its environs.
- A site inspection.
- An appraisal of potential environmental risks.
- Development of a Phase 1 Conceptual Model.

1.3 DATA REFERENCES

- Environmental Search Data (Supplied by Groundsure).
- Historical Ordnance Survey (OS) Mapping (Supplied by Landmark Information Group).
- British Geological Survey Online Geological Mapping.
- BS 10175:2011 +A2:2017 Investigation of Potentially Contaminated Sites – Code of Practice.
- BSI (2015), BS 5930:2015 Code of Practice for Ground Investigations.
- PHE-BGS (2011), Joint Indicative Atlas of Radon in Great Britain.
- EA (2020), LCRM: How to assess and manage the risks from land contamination.

1.4 LIMITATIONS

This report has been produced in accordance with industry best practice at the time of writing.

In the production of this report, Erda Associates Ltd., have relied upon information provided by third parties. Erda Associates Ltd cannot accept responsibility for the reliability and authenticity of this information. Erda Associates Ltd. will not be responsible for any opinions which it has expressed, or conclusions which it has drawn, in reliance upon information which is subsequently proven to be inaccurate.

This report has been prepared for the sole use of the client and shall not be relied upon or transferred to third parties without the express written consent of Erda Associates Ltd. Unauthorised third parties rely upon the information contained within this report at their own risk.

1.5 PROPOSED DEVELOPMENT

The client proposes to rebuild and repair an existing barn structure into a single residential dwelling with associated amenity space and courtyard parking. Existing site and proposed development plans are included in **Appendix A**, for reference.

2.0 PHASE I DESK STUDY AND SITE OBSERVATIONS

2.1 GEOGRAPHICAL SETTING

The site is situated approximately 2.50km to the east of Burton Upon Trent town centre in the parish of Brizlincote. The site is situated within a predominantly rural area and accessed via private driveway off Brizlincote Lane. The site is roughly centred at national grid reference SK 2730 2205. Site location and boundary plans are presented in **Appendix A**.

2.2 SITE INSPECTION/DESCRIPTION

The site is broadly square in shape and extends to a total area of 0.12ha. The site was generally noted to be flat lying.

A derelict brick-built barn was noted to be present centrally within the site. It is understood that the barn was most recently utilised as a workshop and for the storage agricultural machinery before becoming disused. There is evidence of the barns original use for sheltering livestock within the existing structure. The northern part of the site adjoins a larger agricultural field. The southern part of the site comprises an external hardcore storage space and access. The storage area was being utilised for the storage of tractors, a mobile fuel bowser and agricultural machinery.

No significant olfactory or visual evidence of contamination was noted either within or in the surrounding area during the site walkover.

The immediate surrounding land uses include other agricultural barns to the south and west, Brizlincote Hall (a large residential dwelling) to the north-east and agricultural fields to the north.

A visual inspection of two historic disused pits (identified in the historic mapping review in section 2.3) was also undertaken. It was noted that the pits have remained open with no infilling activity evident.

Selected site inspection photographs are included in **Appendix A** for reference.

Significant Features identified during site inspection:	
Former agricultural usage and storage – low risk of contamination, however, no significant evidence of contamination identified.	

2.3 HISTORICAL REVIEW: SITE DEVELOPMENT

Ordnance Survey maps have been reviewed for the years 1882 - 2022. The OS maps are contained in **Appendix B**, for reference.

The summary, below, identifies the historical features identified on the historical mapping data considered likely to have the potential to affect the site.

Date	Identified On-site Hazard	Identified Off-site Hazard
1882	The barn is illustrated in the central part of the site. The majority of the south-eastern portion of the site appears to form an external yard. A smallholding is illustrated to encroach on the south-western part of the site. The northern part of the site is recorded to be part of a larger agricultural field.	The immediate surrounding land use to the north, west and south comprises agricultural fields. Brizlincote hall and its associated private garden is situated immediately to the north-east. A number of agricultural barns are recorded immediately to the south-east of the site. A moderate sized pond is recorded approximately 30m to the east of the site. An unidentified pit is recorded approximately 110m to the north-east of the site. A large pond is recorded approximately 130m to the north of the site.
1901	No significant changes identified.	The unidentified pit 110m to the north has increased in size. Another unidentified pit is

		recorded approximately 90m to the north-east.
1923	No significant changes identified.	The moderate sized pond located 30m to the east is no longer recorded. The unidentified pits 110m to the north and 90m to the north-east are now recorded as 'old clay pits'.
1951	A small circular shaped tank is recorded in the south-eastern portion of the site.	A small unidentified building is recorded approximately 10m to the south-west.
1973	The small tank is no longer recorded.	A large barn building is now recorded immediately to the south-east of the site. A number of the historic smaller barn buildings that were present in this area appear to have been demolished prior to this. Another large barn is also recorded -10m to the south of the site.
2003	No significant changes identified.	No significant changes identified.
2022	No significant changes identified.	No significant changes identified.

Significant Features identified on OS Maps:	
On-site hazard	Historical Tank – potential source of contamination. However most likely to be a grain tank (circular feature). The risk is also reduced due to the age of this feature.
Off-site Hazard	Moderate sized pond 30m to the east – potential source of ground gas if infilled (negligible risk due to age of potential backfill and size of feature). Old Clay Pits – potential source of ground gas if infilled (negligible risk as these have not been infilled as confirmed during site walkover).

2.4 ANTICIPATED GEOLOGY

The BGS geological mapping sheet 141 (Loughborough) for this area illustrates;

- Made Ground is not recorded to be present on site. Made ground is recorded approximately 231m to the south-east of the site. Anecdotal evidence suggests this relates to former opencast coal extraction.
- Superficial deposits are not recorded to be present on site.
- A solid geology of the Tarporley Siltstone Formation, comprising interbedded siltstone, mudstone and sandstone is recorded to underlie the site. Based on our extensive knowledge of these deposits and the local area, it is likely that the upper layer of these deposits will have been weathered to clay.
- The site is not indicated to be directly affected by faulting.

Significant Features identified from geological data:
Made ground 231m to the south-east – potential source of ground gas (very low risk due to distance and likelihood that made ground is reworked natural overburden from former opencast extraction). The risk is further reduced due to the suspected presence of cohesive deposits immediately beneath the site that will inhibit the migration of ground gas onto site.

2.5 HYDROGEOLOGY & HYDROLOGY

2.5.1 Hydrogeology

The solid geology (Tarporley Siltstone Formation) has been classified by the Environment Agency as a Secondary B Aquifer. These are predominantly lower permeability layers which may store limited amounts of groundwater due to localised features such as fissures or permeable horizons.

There are no recorded groundwater abstraction licences located within 1,000m of the site.

The site is not situated within a groundwater Source Protection Zone (SPZ).

Significant Features identified from hydrogeological data:

Secondary B Aquifer – potential receptor.

2.5.2 Hydrology

There are no significant surface water features in close proximity to the site.

Environment Agency data suggests that the site is not within a Flood Zone 2/Flood Zone 3 area.

There are no surface water abstraction licences recorded within 2,000m of the site.

Significant Features identified from hydrological data:
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No significant receptors identified.

2.6 MINING

2.6.1 Coal

The site is not located within a Coal Authority designated Development High Risk Area. Therefore, the risk is assessed as negligible and a coal mining risk assessment will not be required.

2.6.2 Non-Coal Extraction

Historic clay pits have been identified approximately 50m to the north-east and 80m to the north of the site. However, these are not considered to pose a risk. Furthermore, historic opencast extraction is recorded 231m to the south-east of the site. The Groundsure report also identifies opencast extraction 14m to the south-west of the site. It is considered this is likely a buffer zone extending from the known opencast extraction 231m to the south-east. Anecdotal evidence suggests that there has been no opencast extraction 14m to the south-west. Based on the above the risk of non-coal extraction beneath the site is assessed as being negligible.

Significant Mining Risks:

No significant potential risks identified.
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2.7 POTENTIALLY CONTAMINATIVE LAND USES

Environmental search data supplied by Groundsure (**Appendix C**) states that:

- There are no records relating to active or historical landfill within 500m of the site.
- There are twenty-one waste exemptions within 250m of the site. The majority of these are recorded 6m to the south-east and are associated with Brizlincote Hall Farm. These all relate to agricultural activities such as burning of waste, spreading of plant matter to confer benefit, deposit of waste from dredging inland rivers etc. None of these activities are anticipated to pose a significant risk to the site.
- There are fifteen historical potentially contaminative land uses recorded within 250m of the site. These all relate to the old clay pits or opencast extraction previously identified in earlier sections. These historic land uses are not considered to pose a significant risk to the site due to age and composition of backfill along with distance from the site.
- A historical tank is recorded on site between 1951 and 1960 (as previously identified during the historic mapping review). This is not considered to pose a significant risk due to age and anticipated use (grain store).
- There are only two potentially contaminative current land uses recorded within 250m of the site relate to the two old clay pits. Based on our observations during the site walkover, these are not considered to pose a risk to the site.
- There are no historical hazardous substance or IPC consents located within 500m of the site.
- There are no recorded pollution incidents within 500m of the site.
- There are no recorded licensed discharge consents within 500m of the site.
- There are no historic or current petrol station or fuel sites recorded within 500m of the site.

Significant Features identified from Environmental Data:
No significant potential risks identified.

2.8 RADON GAS ASSESSMENT

The site has been assessed in accordance with the guidelines in “Radon: guidance on protective measures for new buildings” (BR 211 - BRE, 2015).

The site is not recorded to be within a Radon Affected Area as less than 1% of properties are affected. Therefore, radon protection measures will not be required.

Radon Gas Hazard:
No significant risks identified.

3.0 PHASE I CONCEPTUAL MODEL

3.1 SOURCE-PATHWAY-RECEPTOR

The conceptual model for the site considers the development proposal for the rebuilding and conversion of an existing derelict barn to a single residential dwelling.

It is understood that the barn was most recently used as a workshop and for the storage of agricultural machinery. However, these uses will have occurred some time ago as the barn structure is now derelict. Furthermore, the site walkover did not reveal any potential significant visual or olfactory evidence of contamination.

A moderate sized potentially infilled pond located 30m to the east is not considered to pose a risk of ground gas due to the scale and age of the potential backfill (>90 years old). The old clay pits are not considered to pose a risk of potential ground gas as these were observed to be still open during the site walkover with no evidence of infilling. The historic opencast coal extraction located 213m to the south-east may pose a very low risk of ground gas generation. However, the material used to fill the extraction will likely be reworked natural overburden (soil) resulting from the extraction activity. The anticipated low content of putrescible material utilised to backfill the opencast extraction will not pose a significant risk to the site. Furthermore, the distance of the opencast along with the suspected presence of cohesive material beneath the site (inhibiting the gas migration pathway) will reduce the risk of ground gas to negligible. In addition, no significant potential sources of ground gas (e.g. historic landfill) have been identified in the surrounding area.

Based on all of the above there are no significant potential contaminants of concern that will require further assessment or investigation.

For the controlled waters environment, the primary receptor is the underlying Secondary B Aquifer (Tarporley Siltstone Formation). However, no significant contamination sources have been identified. Furthermore, the presence of cohesive deposits (weathered upper layer of the Tarporley Siltstone Formation) would inhibit the potential migration of contamination into groundwater. Consequently, the risk to controlled waters is assessed as negligible.

Again, as no significant risk has been identified for controlled waters, further investigation works are not considered to be necessary.

The development of the conceptual model is illustrated on Figure 3.1.

Figure 3.1: Conceptual Site Model

HUMAN HEALTH			
Source	Pathway	Receptor	Level of Risk/Recommended Action
No significant sources identified.	Indoor and outdoor inhalation of soil dust, the ingestion of, and dermal contact with, contaminated soil and soil dust, ingestion of vegetables that have taken up contamination and contaminated soil attached to vegetables.	End Users.	No risk from any surrounding historic land uses due to age and distance. No risk from historic or current site use – further investigation is not considered to be required.
		Construction Workers.	
Backfilled pond 30m to the east and former opencast extraction 213m to the south-east.	Inhalation of ground gas (carbon dioxide and methane). Pathway will be inhibited due to presence of shallow cohesive deposits (weathered upper layer of the Tarporley Siltstone Formation) beneath the site.	End Users.	Negligible risk identified due to age and distance and likely composition of backfill of both sources – further investigation is not considered to be required.
No significant sources identified.	Water pipes.	End Users.	Negligible risk identified – standard water pipes should be suitable.
CONTROLLED WATERS			
No significant sources identified.	Leaching of contaminants and horizontal migration to surface water.	No significant receptors identified.	Negligible risk identified – no further investigation required.
	Leaching of contaminants and vertical migration to groundwater. Pathway will be inhibited due to presence of shallow cohesive deposits (weathered upper layer of the Tarporley Siltstone Formation) beneath the site.	Secondary B Aquifer (Tarporley Siltstone Formation).	Negligible risk identified – no further investigation required.

4.0 RECOMMENDATIONS

The potential risk of contamination from the surrounding historic land uses (e.g., potentially backfilled pond 30m to the east and former opencast extraction 213m to the south-east) have been assessed as negligible. In addition, no significant sources of potential contamination have been identified on site based on its previous use as an agricultural barn/workshop and evidence gathered during the site walkover.

Accordingly, the risk to end users and the environment is assessed as very low and no further investigation works (e.g., Phase II Site Investigation) are required. However, should any evidence of potential contamination be encountered during construction activity, it is recommended that Erda Associates are contacted to assess the risk posed to end users or the environment.

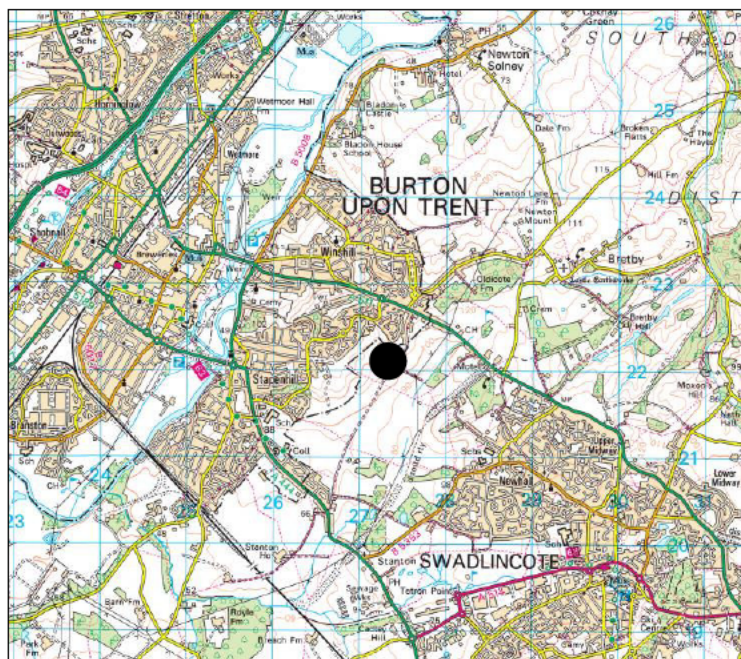
Following your review of this document, a copy of it should be submitted to the Planning Department of the Local Authority for comment and approval.

5.0 CONCLUSION

This Phase I Site Appraisal has shown the site is suitable for the proposed conversion of an existing derelict barn into a residential dwelling and no significant risks to end users or the environment have been identified.

Appendix A





KEY:

● Approximate Site Location

DO NOT SCALE



TITLE:

Site Location Plan

PROJECT:

West Barn, Brizlincote Hall

PROJECT No:

EAL.38.22

DATE:

05/2022

SCALE:

NTS

DRAWN:

PD

DWG No:

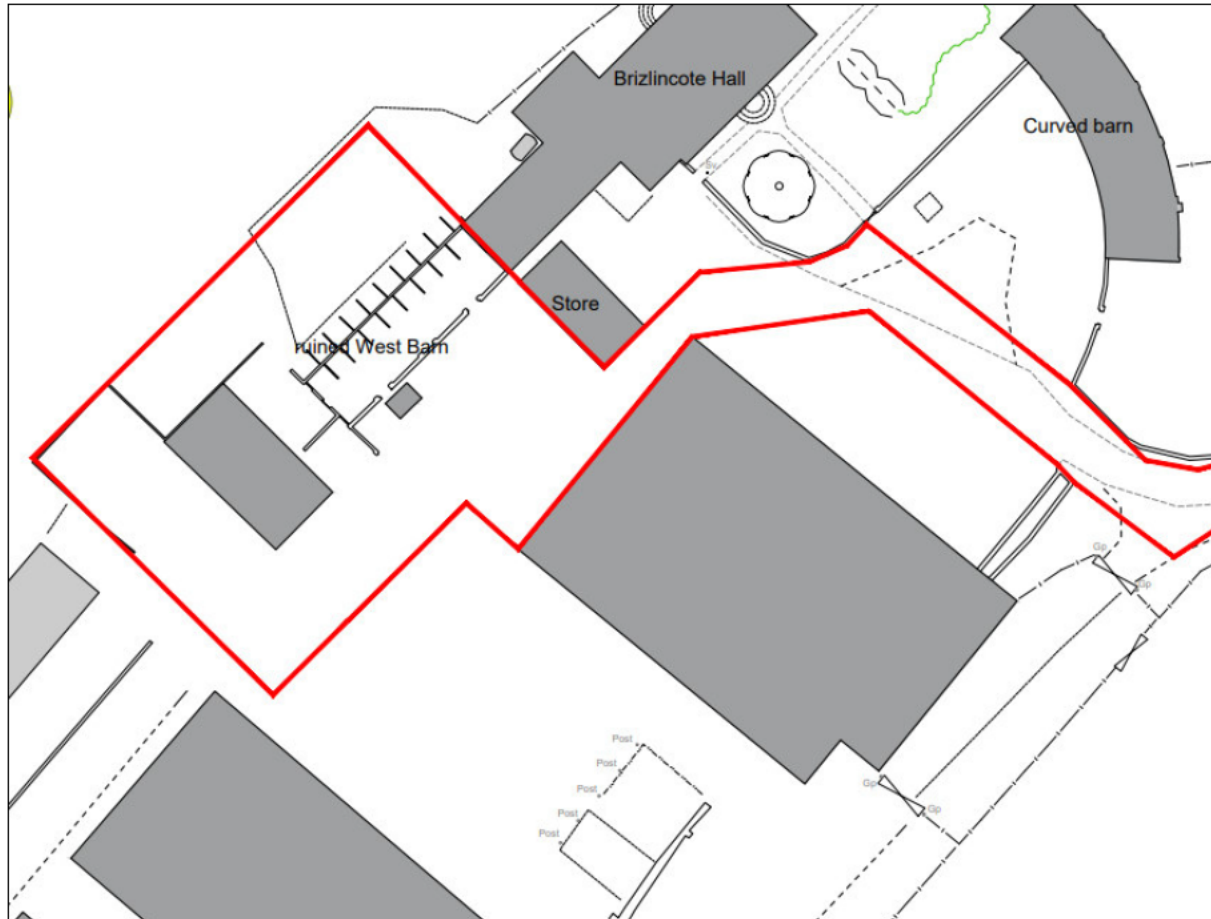
Figure 1



KEY:



Site Boundary



DO NOT SCALE



TITLE:

Site Layout

PROJECT:

West Barn, Brizlincote Hall

PROJECT No:

EAL.38.22

DATE:

05/2022

SCALE:

NTS

DRAWN:

PD

DWG No:

Figure 2



KEY:

DO NOT SCALE



TITLE:

Development Proposal

PROJECT:

West Barn, Brizlincote Hall

PROJECT No:

EAL.38.22

DATE:

05/2022

SCALE:

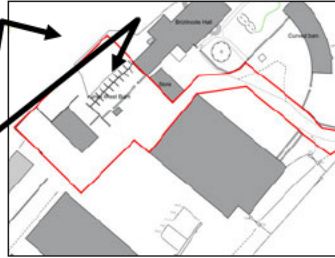
NTS

DRAWN:

PD

DWG No:

Figure 3



KEY:

DO NOT SCALE



TITLE:

Site Photographs

PROJECT:

West Barn, Brizlincote Hall

PROJECT No:

EAL.38.22

DATE:

05/2022

SCALE :

NTS

DRAWN :

PD

DWG No:

Figure 4A



KEY:

DO NOT SCALE



TITLE:

Site Photographs

PROJECT:

West Barn, Brizlincote Hall

PROJECT No:

EAL.38.22

DATE:

05/2022

SCALE:

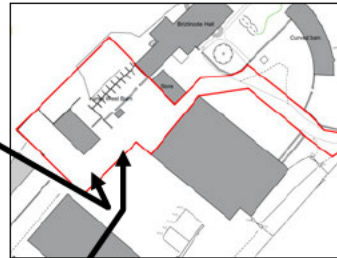
NTS

DRAWN:

PD

DWG No:

Figure 4B



KEY:

DO NOT SCALE



TITLE:

Site Photographs

PROJECT:

West Barn, Brizlincote Hall

PROJECT No:

EAL.38.22

DATE:

05/2022

SCALE:

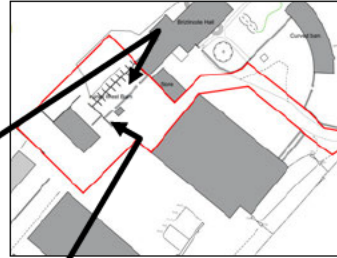
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DRAWN:

PD

DWG No:

Figure 4C



KEY:

DO NOT SCALE



TITLE:

Site Photographs

PROJECT:

West Barn, Brizlincote Hall

PROJECT No:

EAL.38.22

DATE:

05/2022

SCALE:

NTS

DRAWN:

PD

DWG No:

Figure 4A

Appendix B



Site Details:

Brizlincote Hall - West Barn,
Burton Upon Trent, DE15 0PR

Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: County Series

Map date: 1882-1883

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
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Surveyed 1883
Revised 1883
Edition N/A
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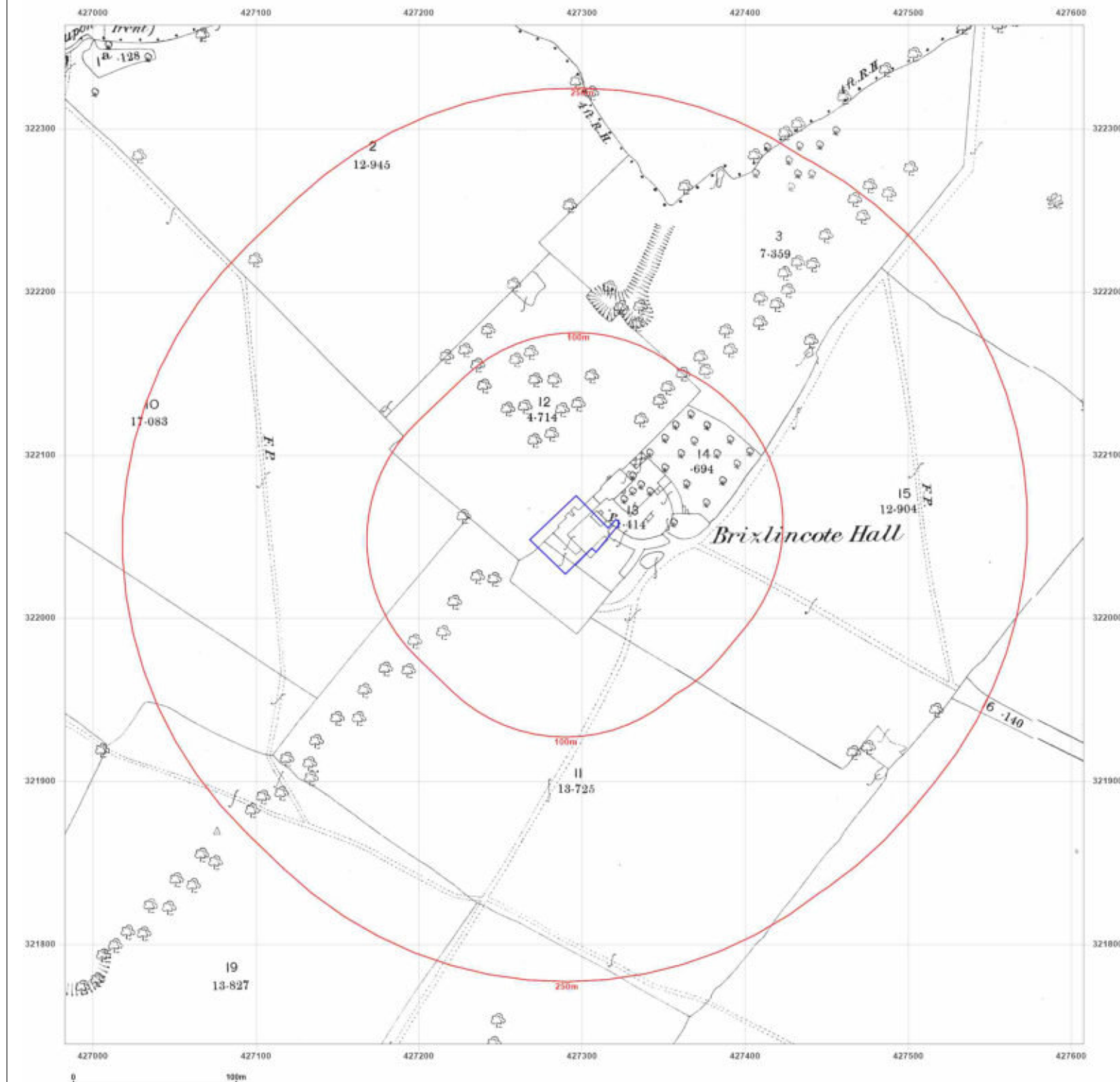


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Production date: 25 May 2022

Map legend available at:
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Site Details:

Brizlincote Hall - West Barn,
Burton Upon Trent, DE15 0PR

Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: County Series

Map date: 1884

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
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Edition 1884
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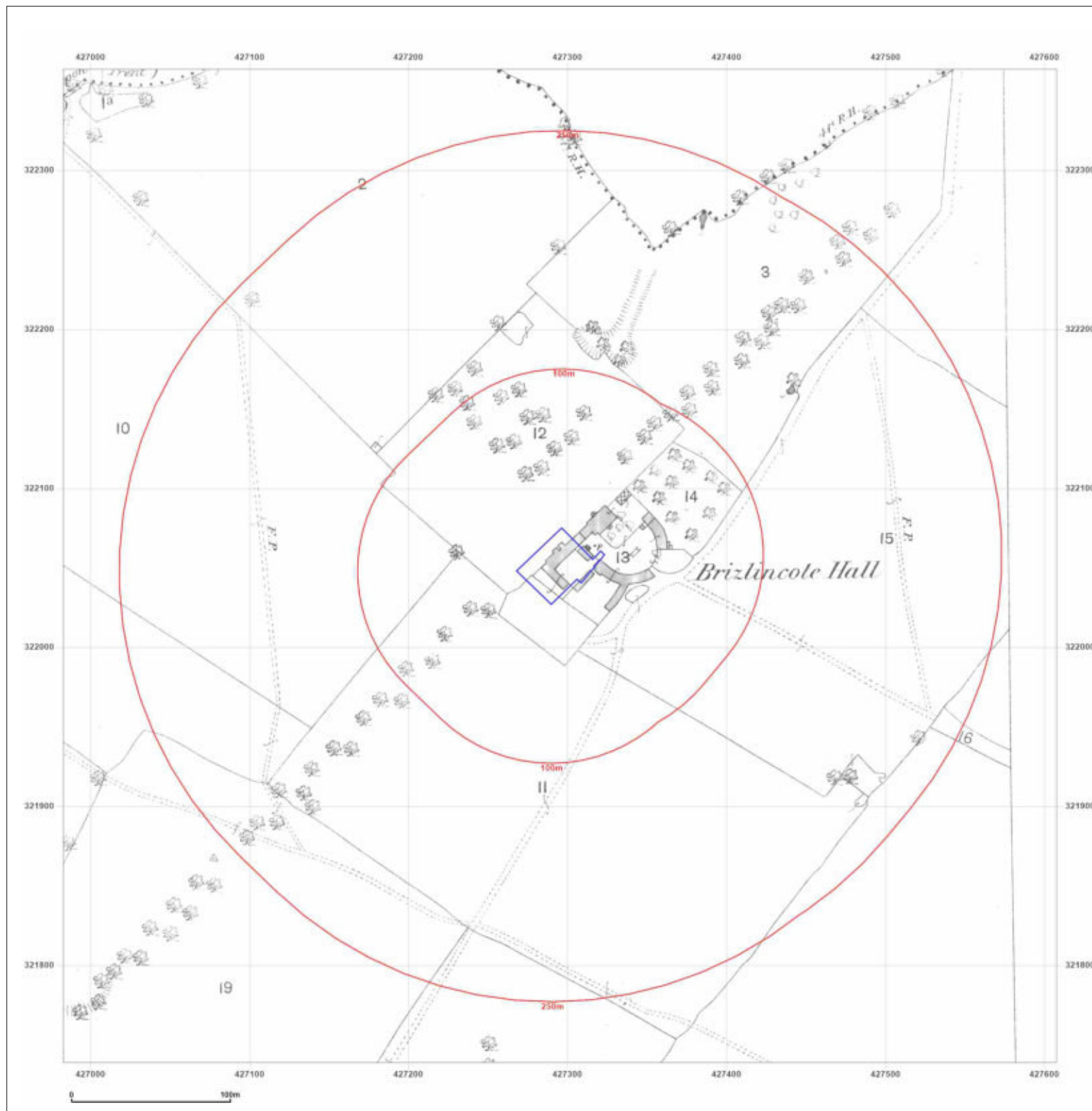


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Site Details:

Brizlincote Hall - West Barn,
Burton Upon Trent, DE15 0PR

Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: County Series

Map date: 1901

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
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Revised 1901
Edition N/A
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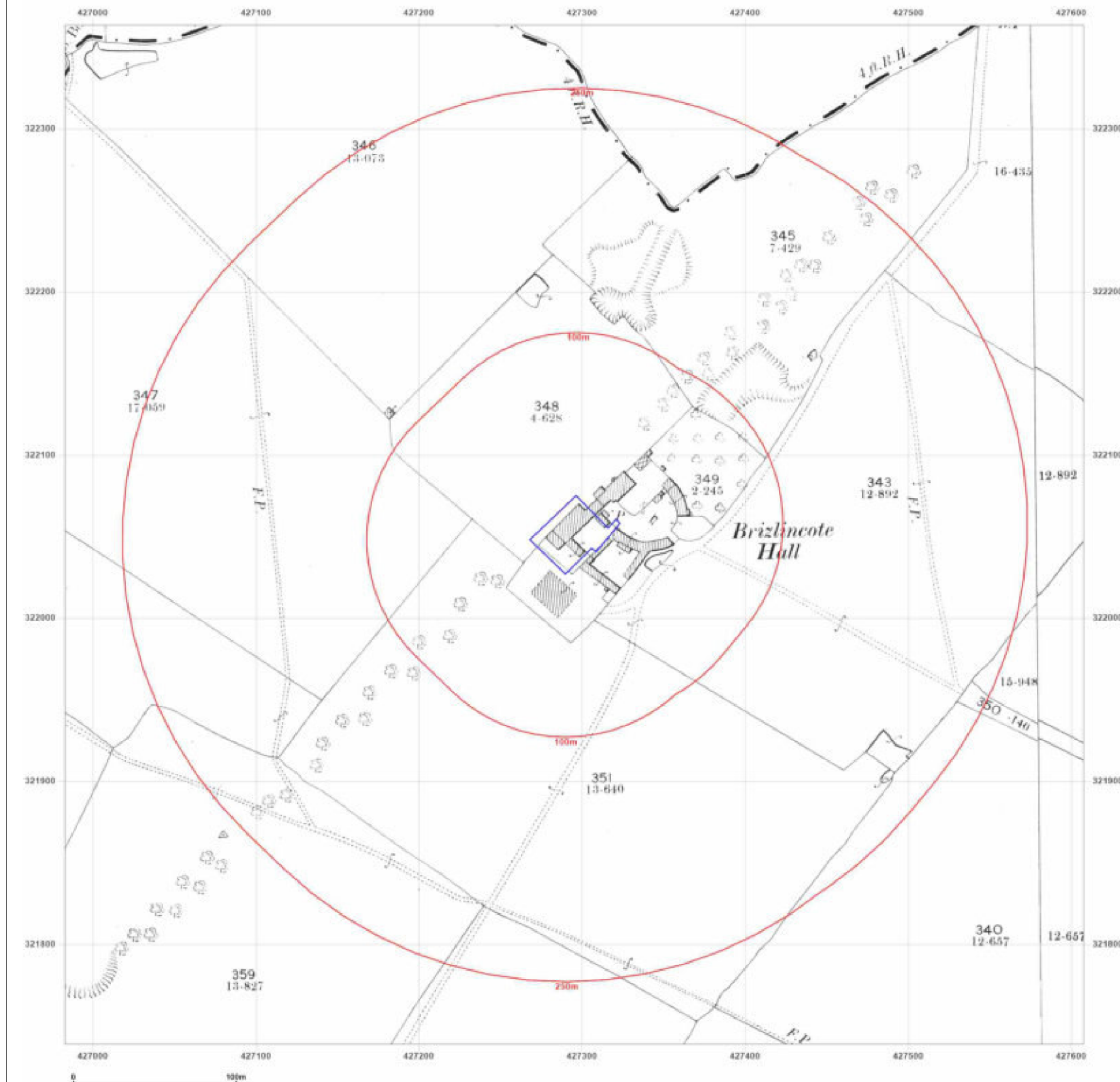


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Site Details:

Brizlincote Hall - West Barn,
Burton Upon Trent, DE15 0PR

Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: County Series

Map date: 1923

Scale: 1:2,500

Printed at: 1:2,500



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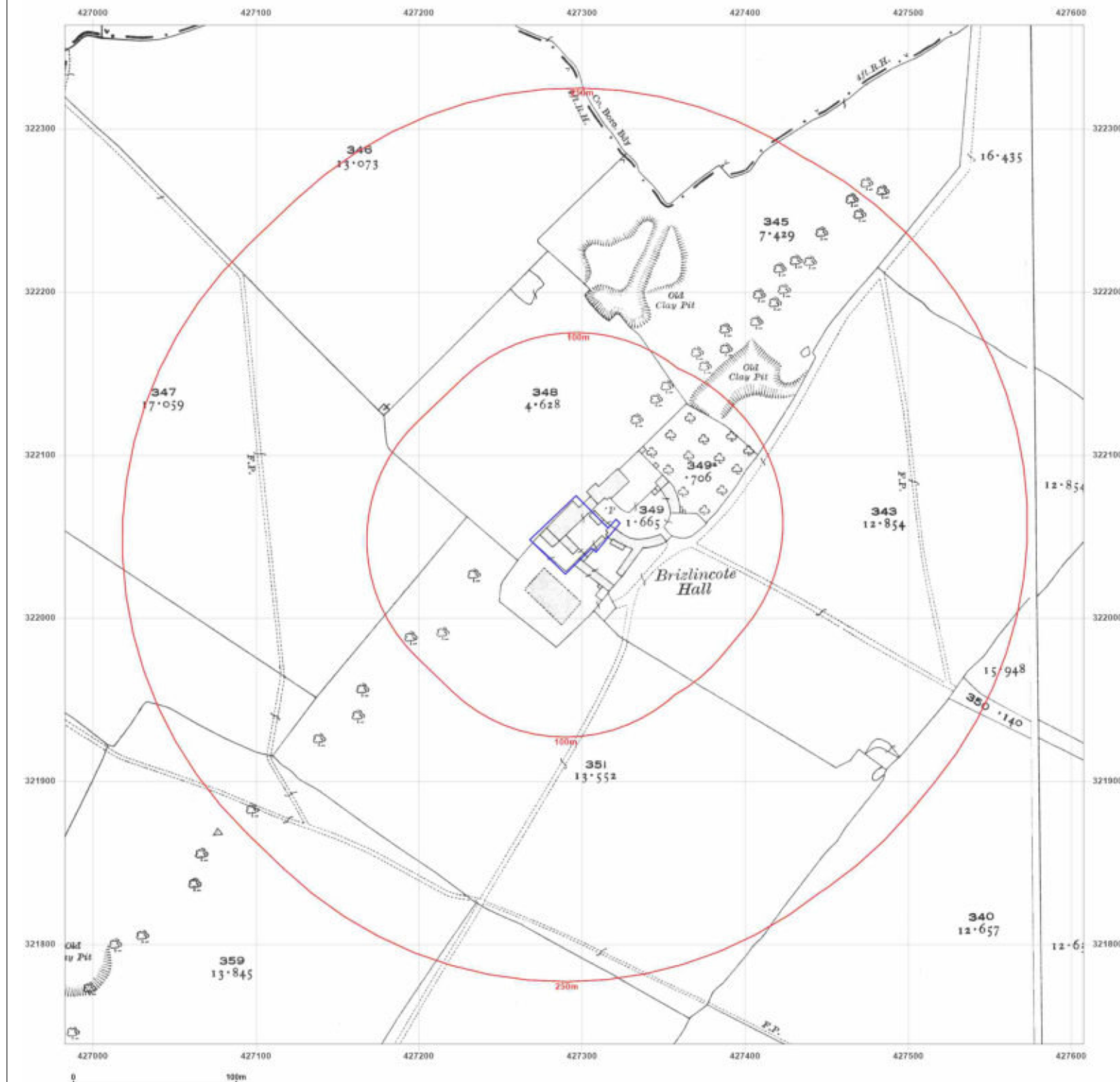


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Site Details:

Brizlincote Hall - West Barn,
Burton Upon Trent, DE15 0PR

Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: National Grid

Map date: 1951

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1951
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Revised 1951
Edition N/A
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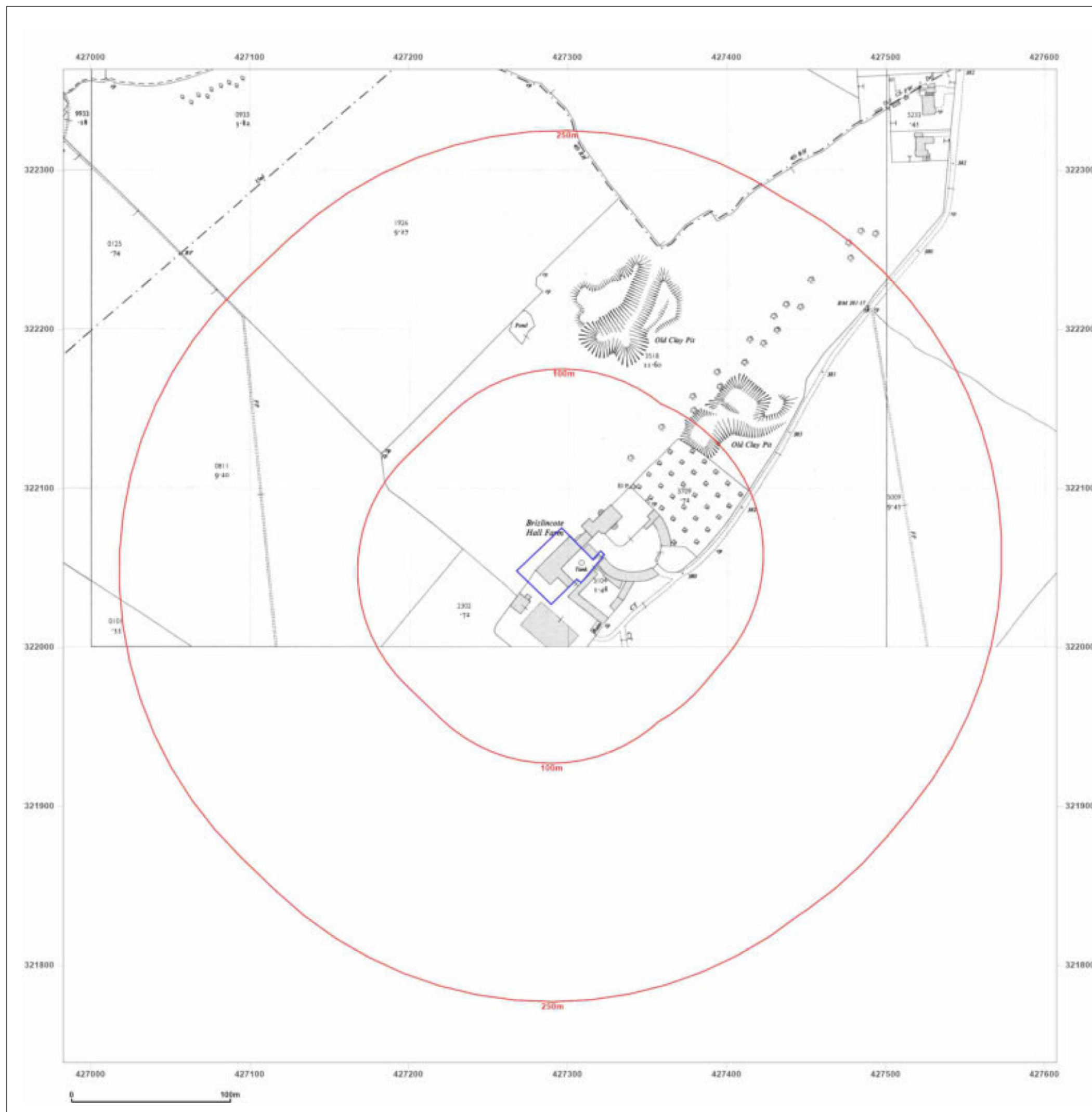


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Site Details:

Brizlincote Hall - West Barn,
Burton Upon Trent, DE15 0PR

Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: National Grid

Map date: 1951-1952

Scale: 1:1,250

Printed at: 1:2,000



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Revised N/A
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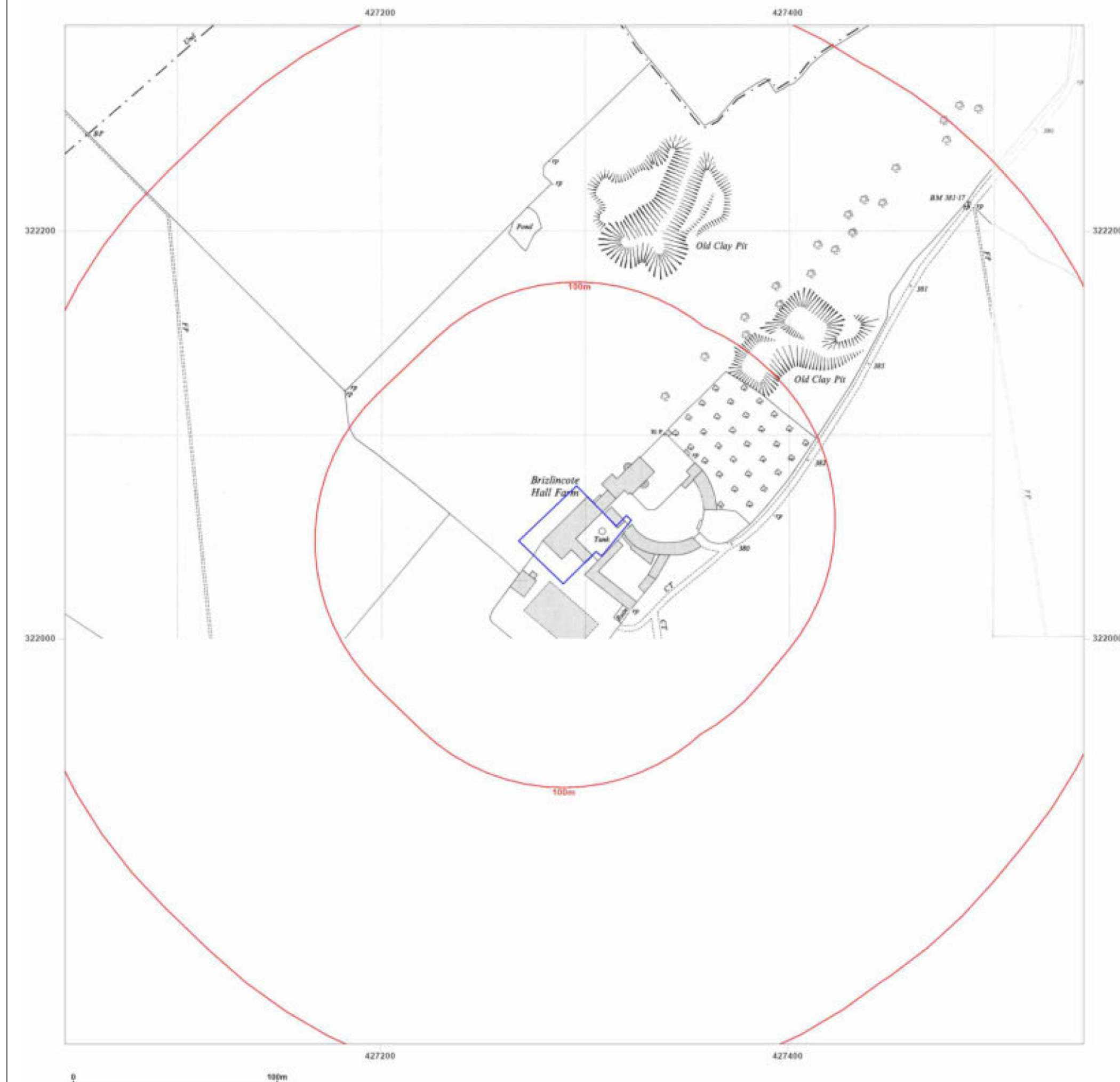


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Site Details:

Brizlincote Hall - West Barn,
Burton Upon Trent, DE15 0PR

Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: National Grid

Map date: 1952

Scale: 1:1,250

Printed at: 1:2,000



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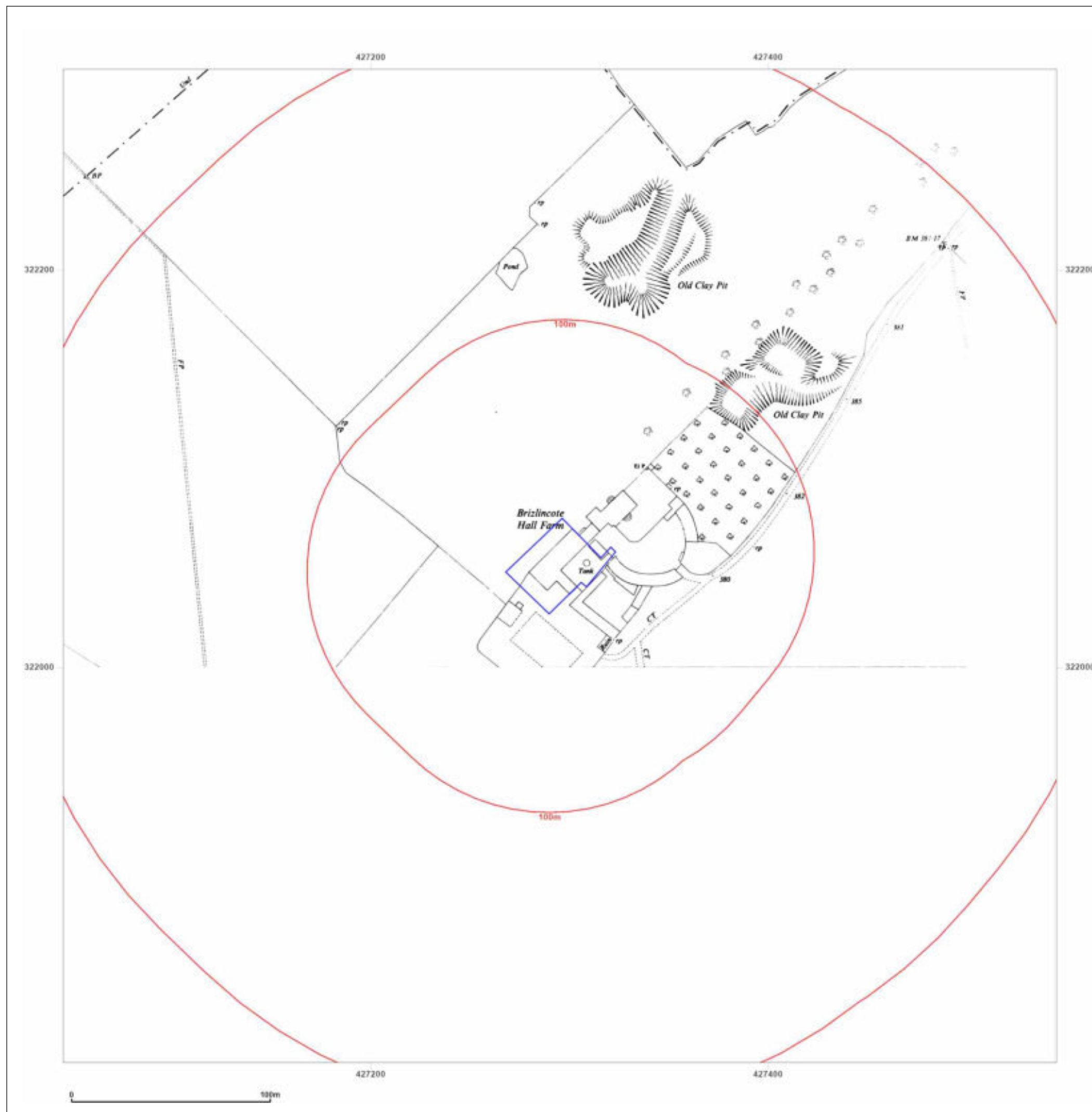


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Site Details:

Brizlincote Hall - West Barn,
Burton Upon Trent, DE15 0PR

Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: National Grid

Map date: 1960

Scale: 1:2,500

Printed at: 1:2,500



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Levelled 1949

Surveyed 1959
Revised 1959
Edition N/A
Copyright 1960
Levelled 1957



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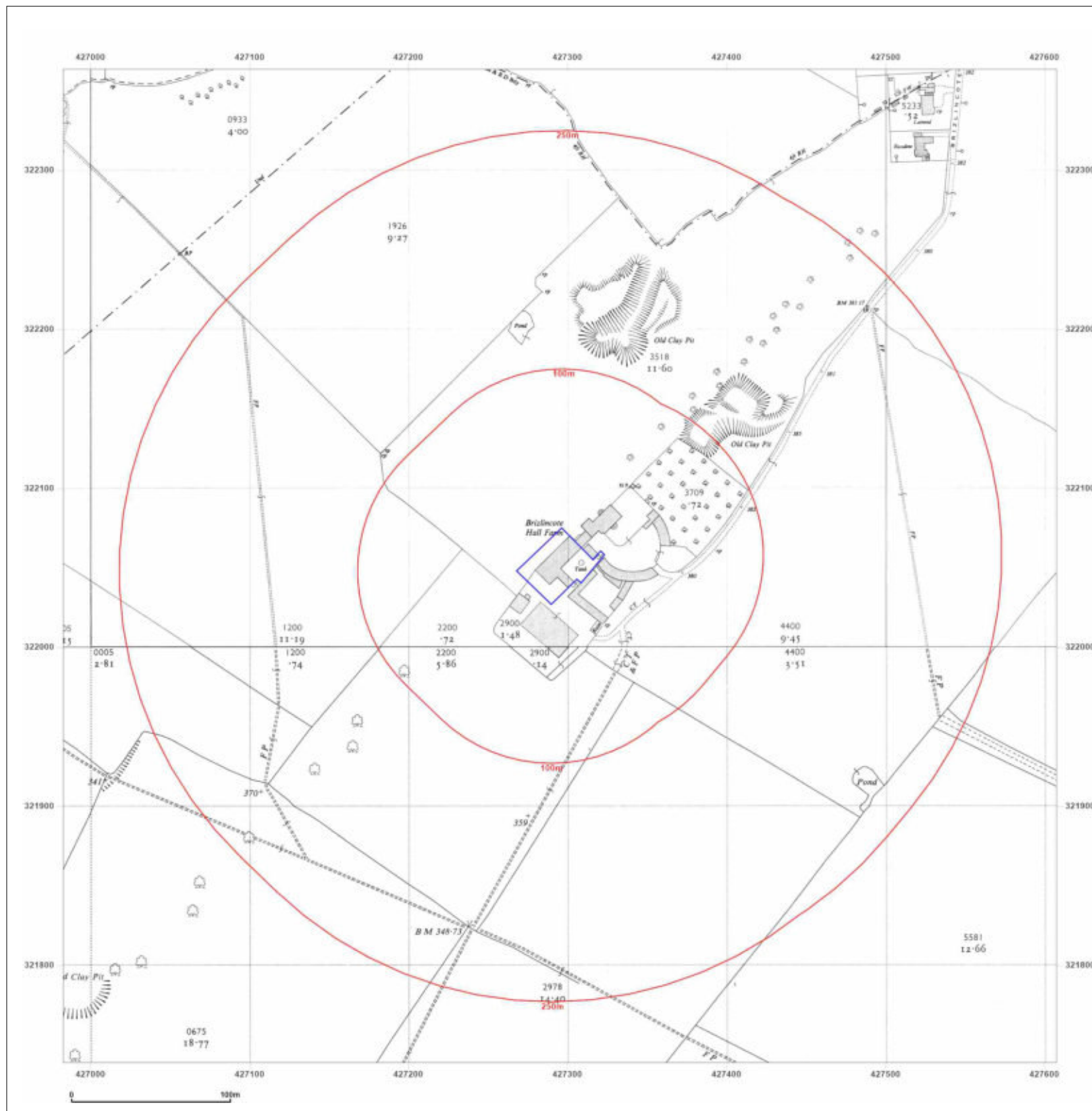


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Site Details:

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Burton Upon Trent, DE15 0PR

Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: National Grid

Map date: 1960

Scale: 1:2,500

Printed at: 1:2,500



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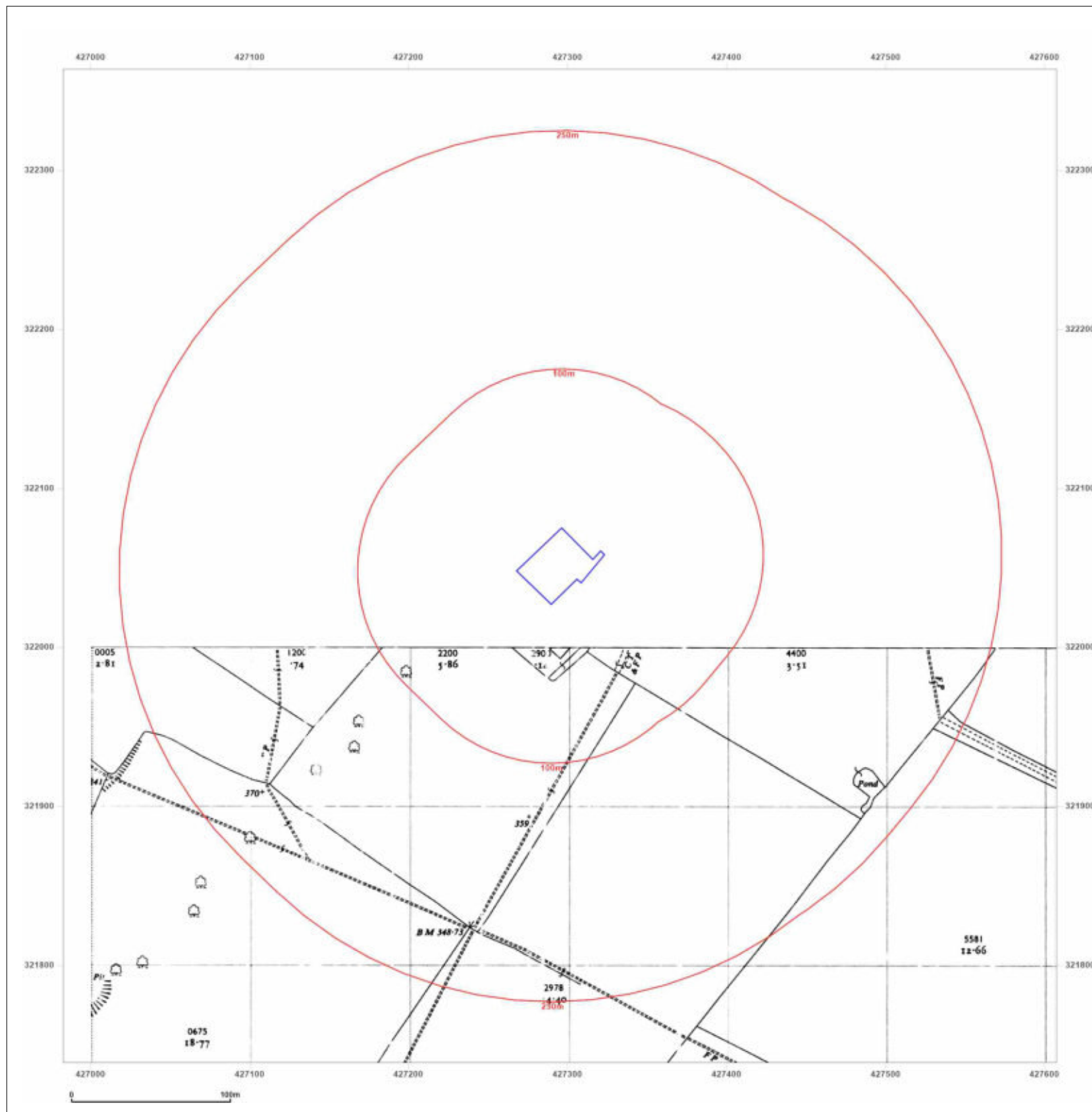


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Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: National Grid

Map date: 1973

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1951
Revised 1972
Edition N/A
Copyright 1973
Levelled 1963

Surveyed 1951
Revised 1972
Edition N/A
Copyright 1973
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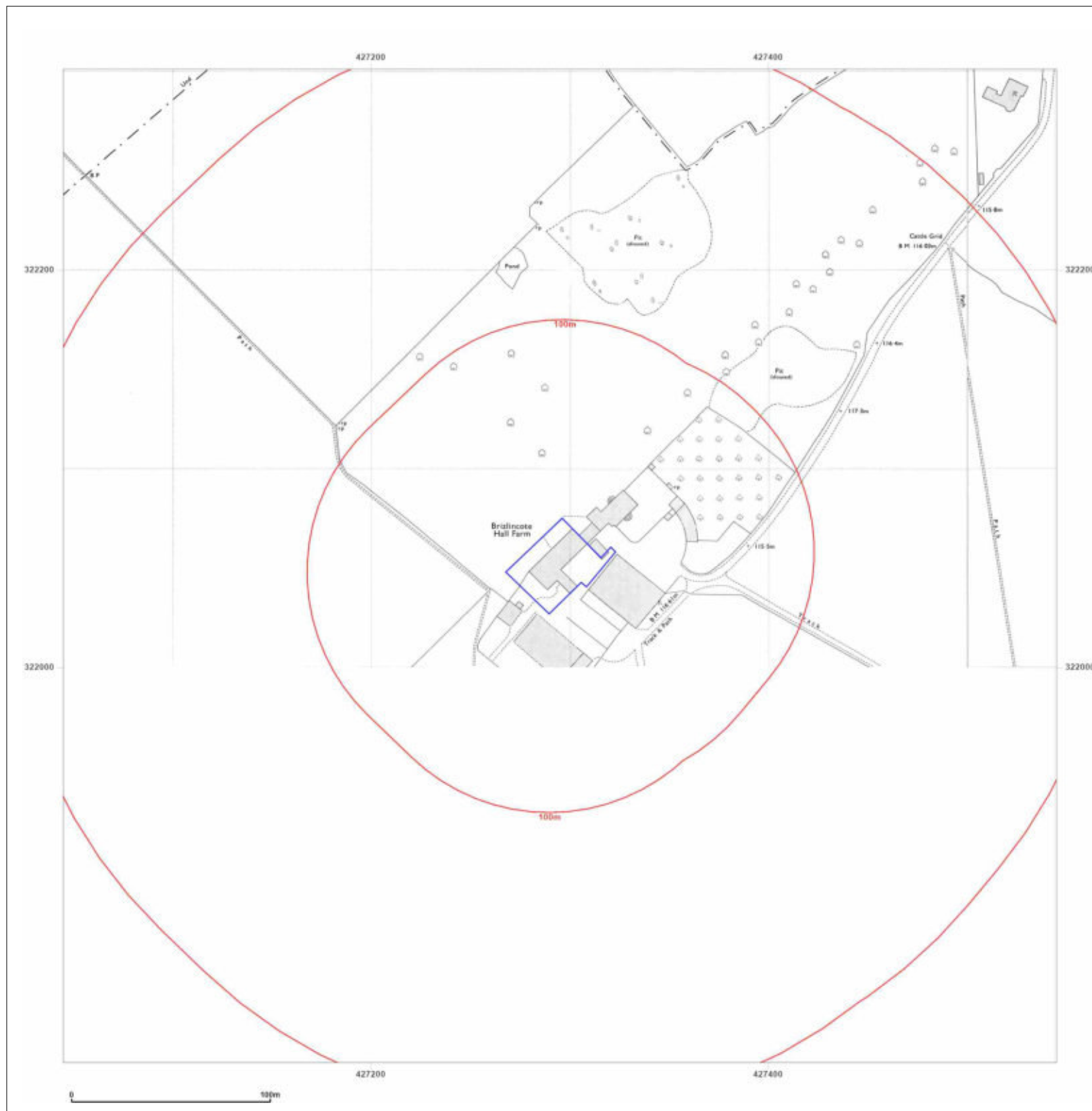


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Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: National Grid

Map date: 1994

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
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Surveyed 1994
Revised N/A
Edition N/A
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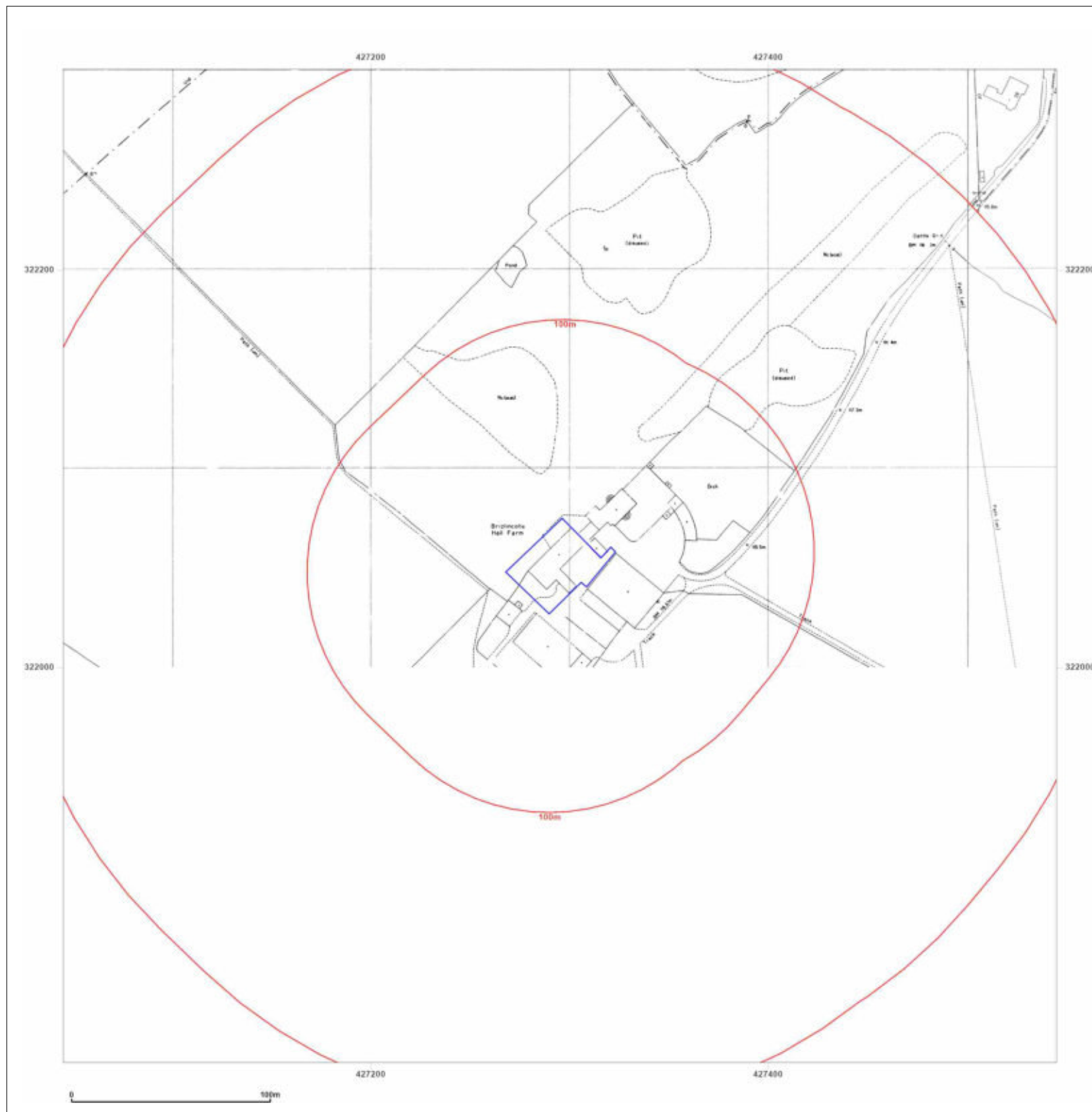


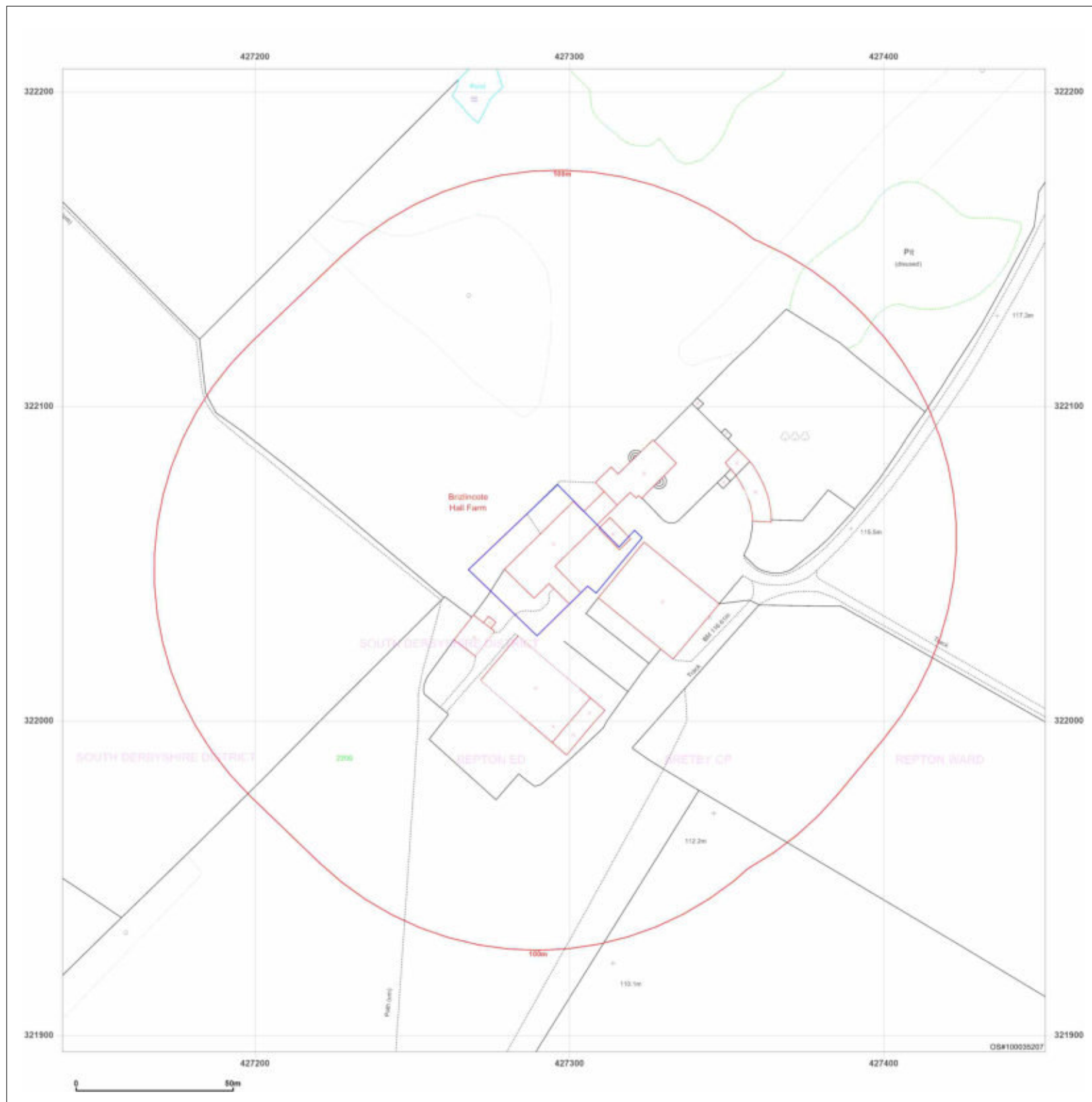
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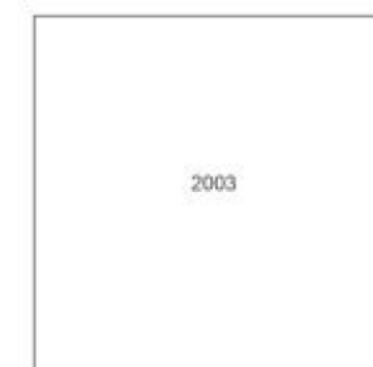
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Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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Site Details:

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Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: County Series

Map date: 1882

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1882
Revised 1882
Edition N/A
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Surveyed 1882
Revised 1882
Edition N/A
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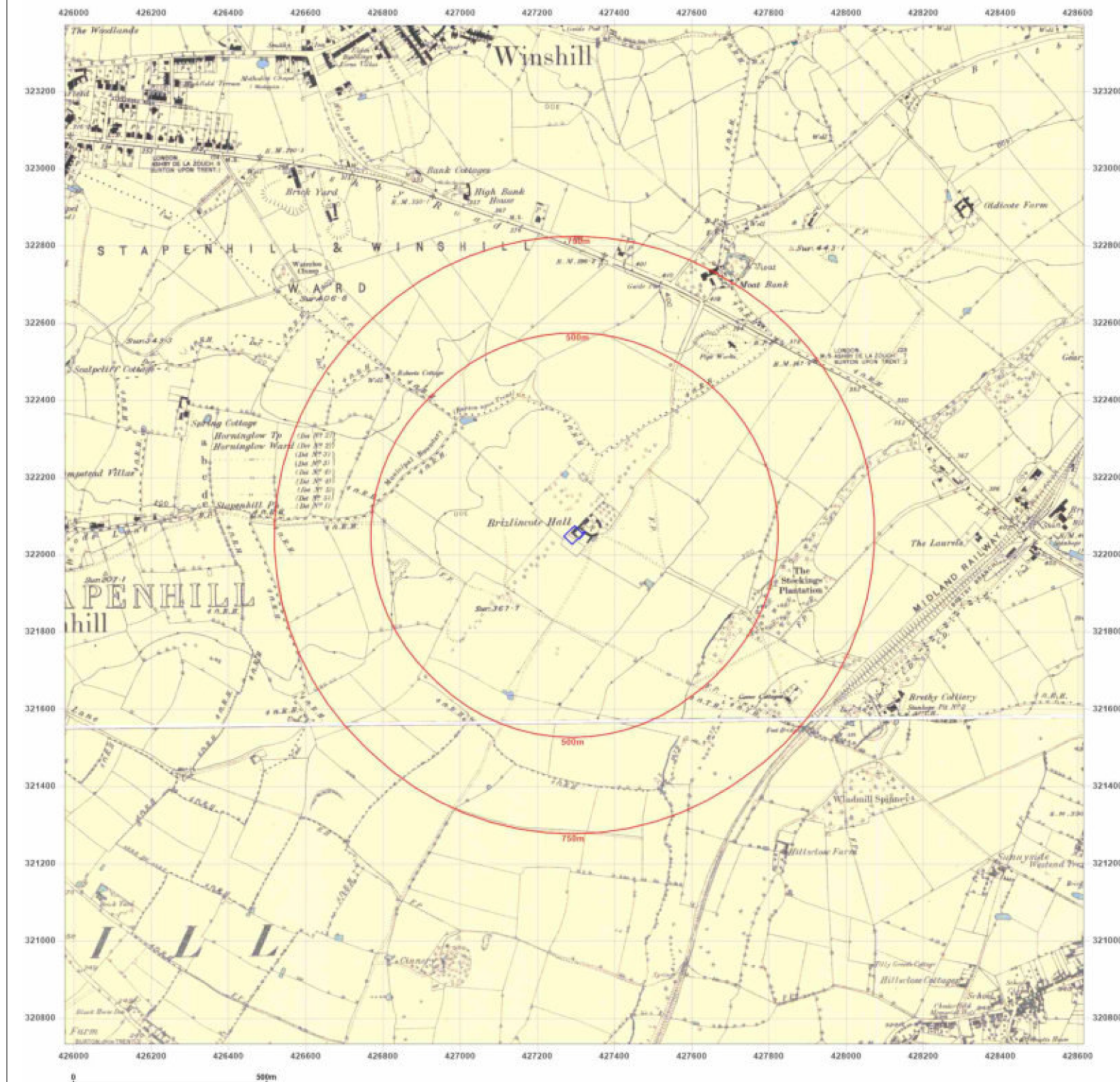


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Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: County Series

Map date: 1900

Scale: 1:10,560

Printed at: 1:10,560



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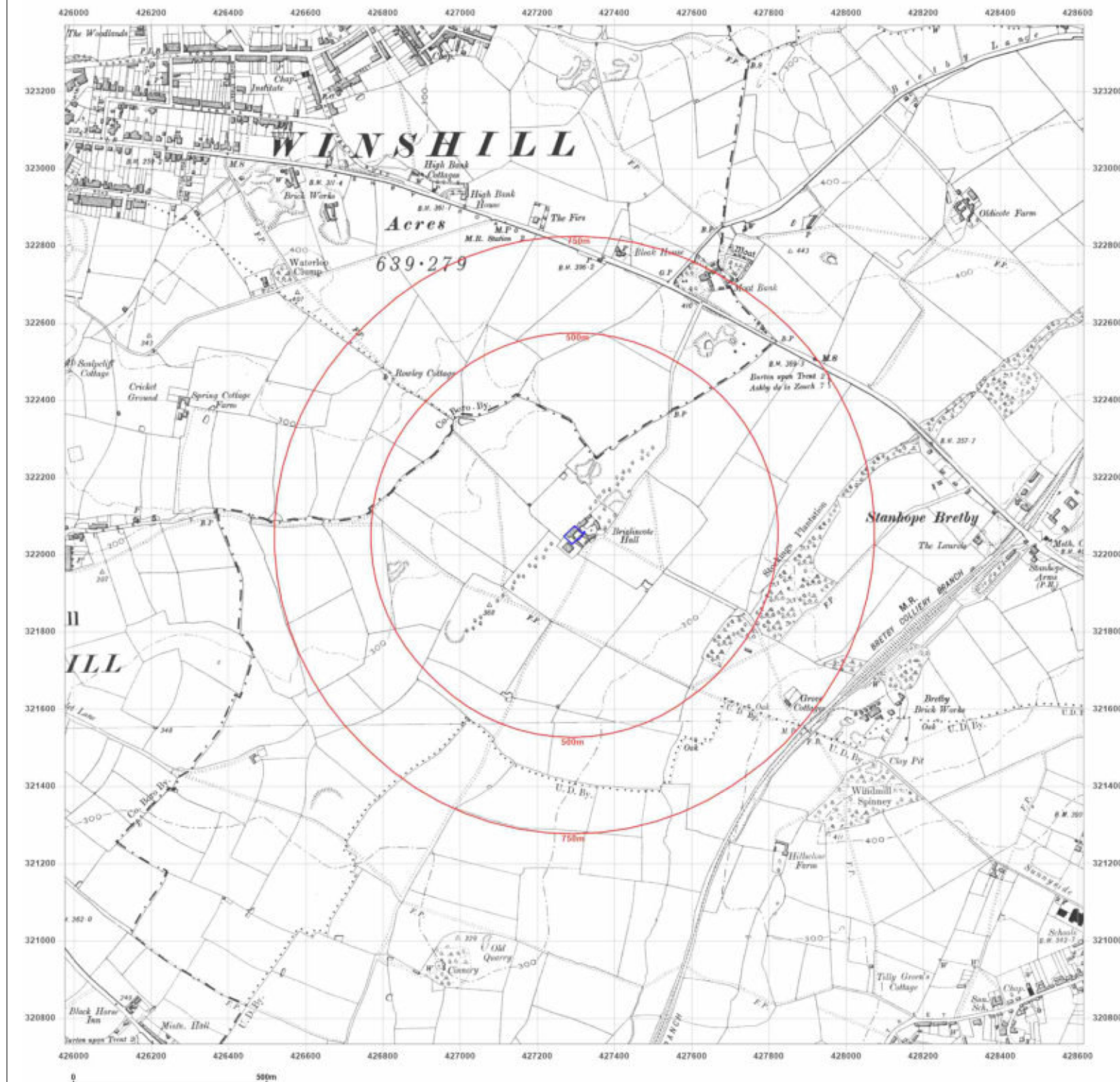


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Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: County Series

Map date: 1902

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1882
Revised 1900
Edition 1902
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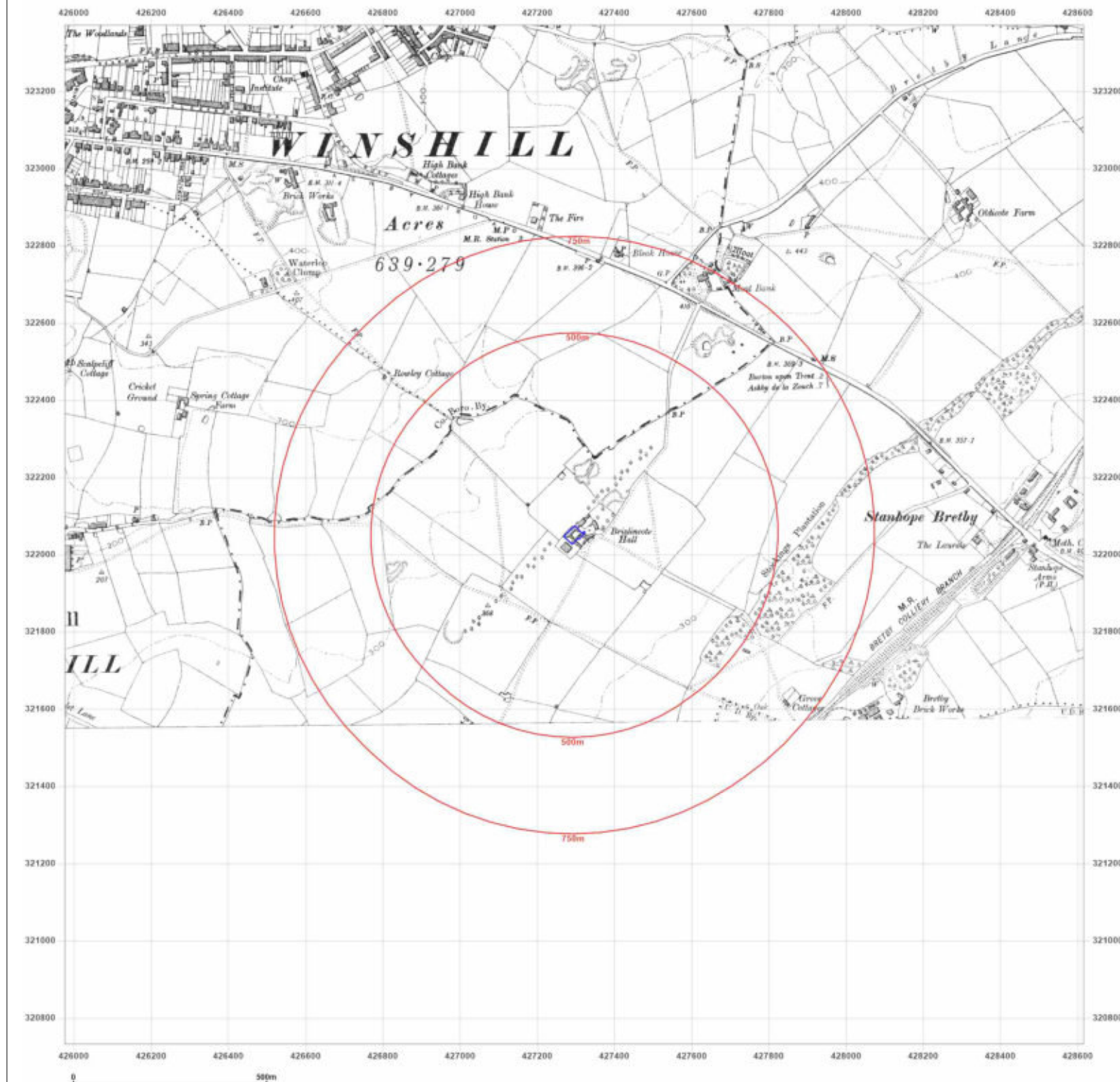


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Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: County Series

Map date: 1924

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1882
Revised 1924
Edition N/A
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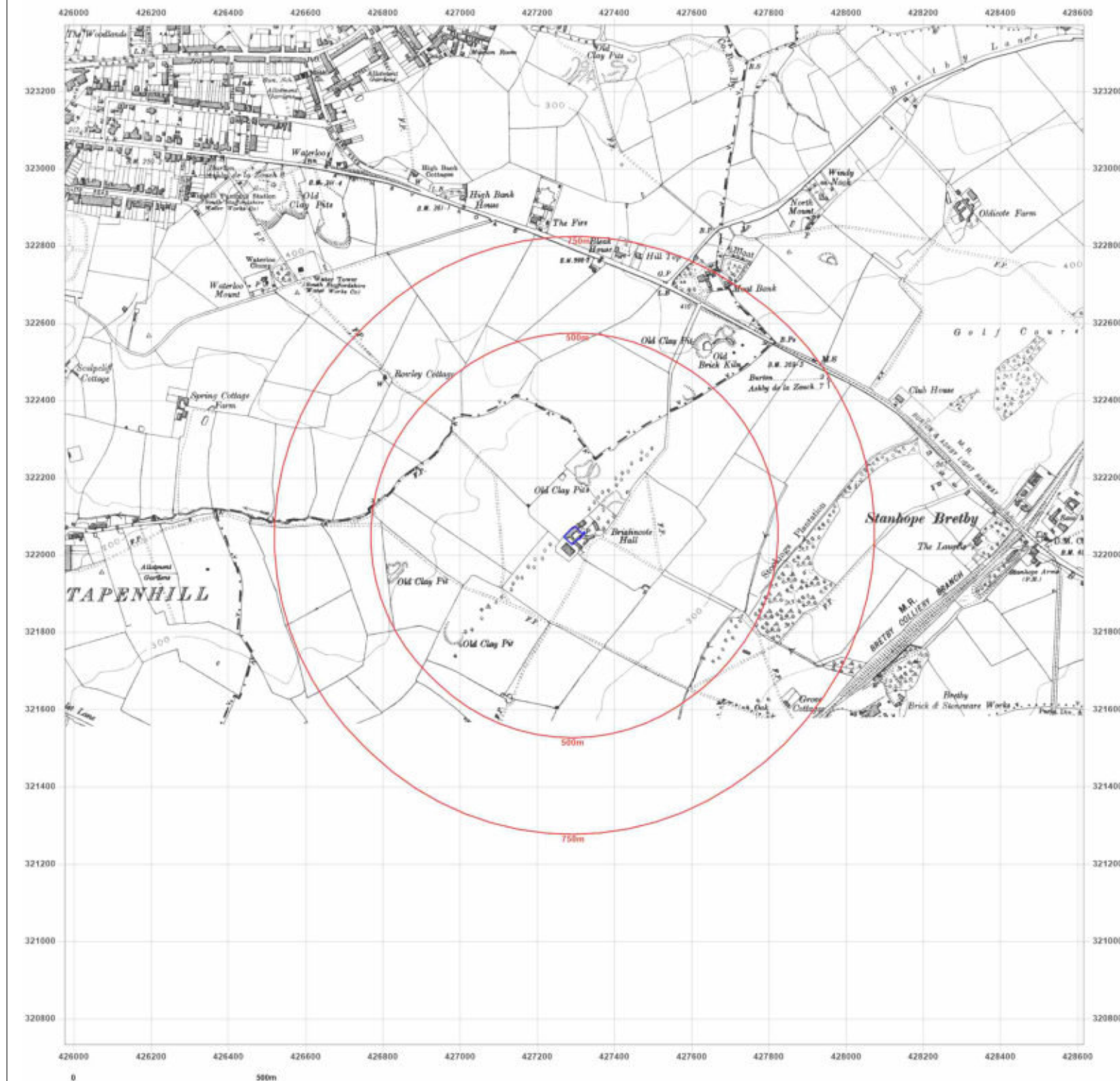


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Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: County Series

Map date: 1924

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1882
Revised 1924
Edition 1924
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Levelled N/A



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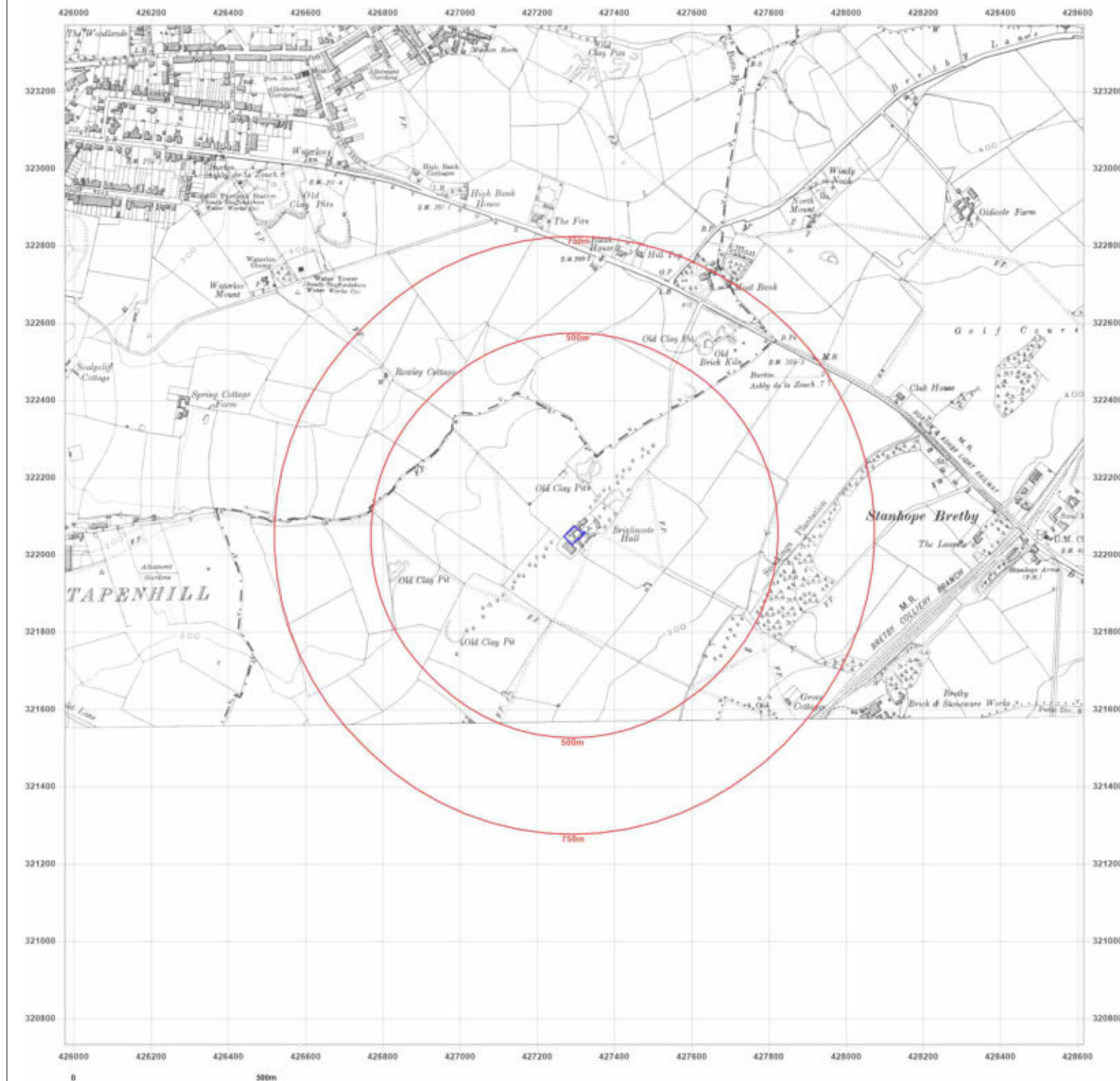


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Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: County Series

Map date: 1924-1925

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1882
Revised 1920
Edition 1924
Copyright N/A
Levelled 1900

Surveyed 1882
Revised 1925
Edition 1925
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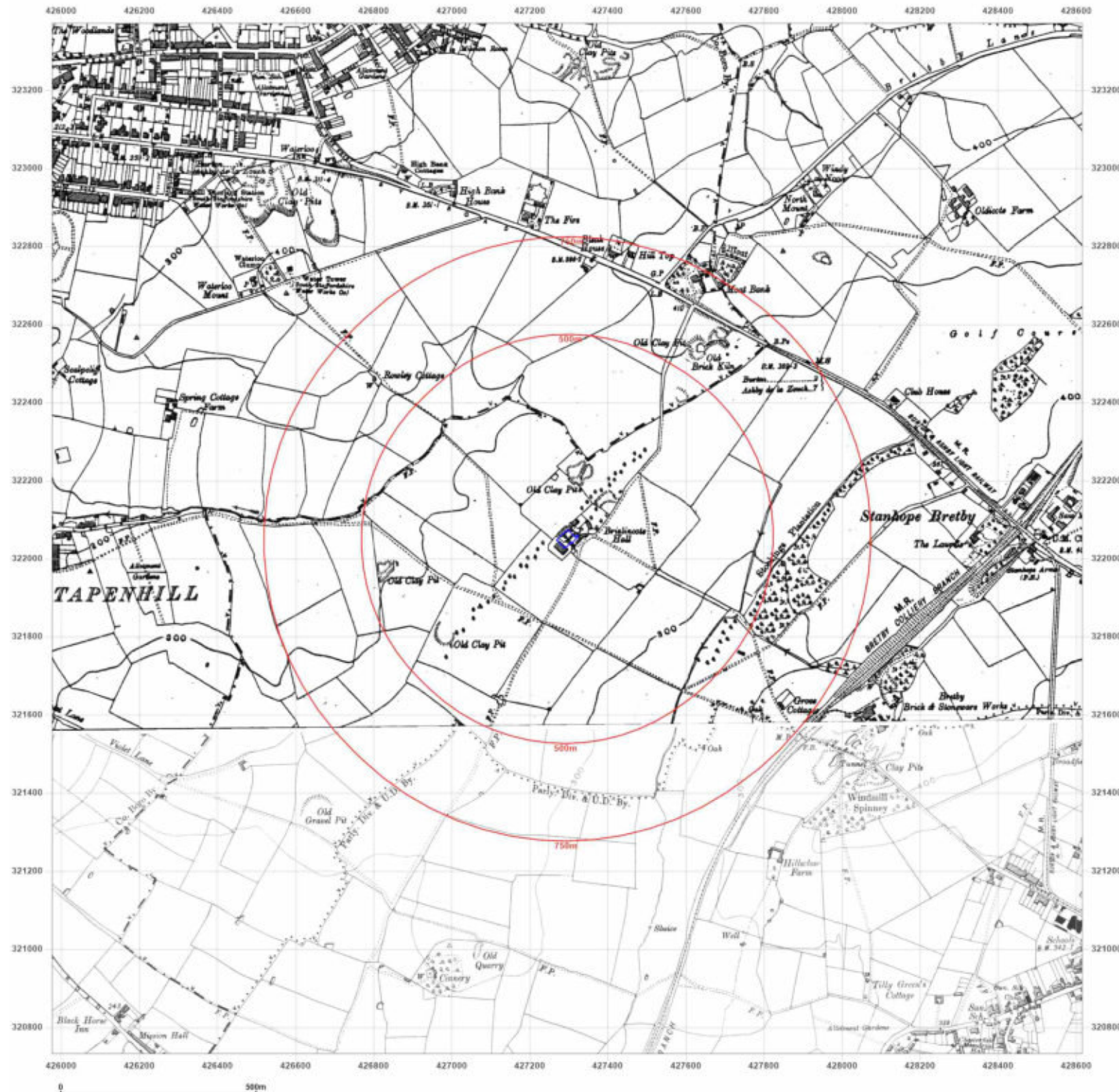


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Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: County Series

Map date: 1947

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1882
Revised 1947
Edition N/A
Copyright N/A
Levelled 1945



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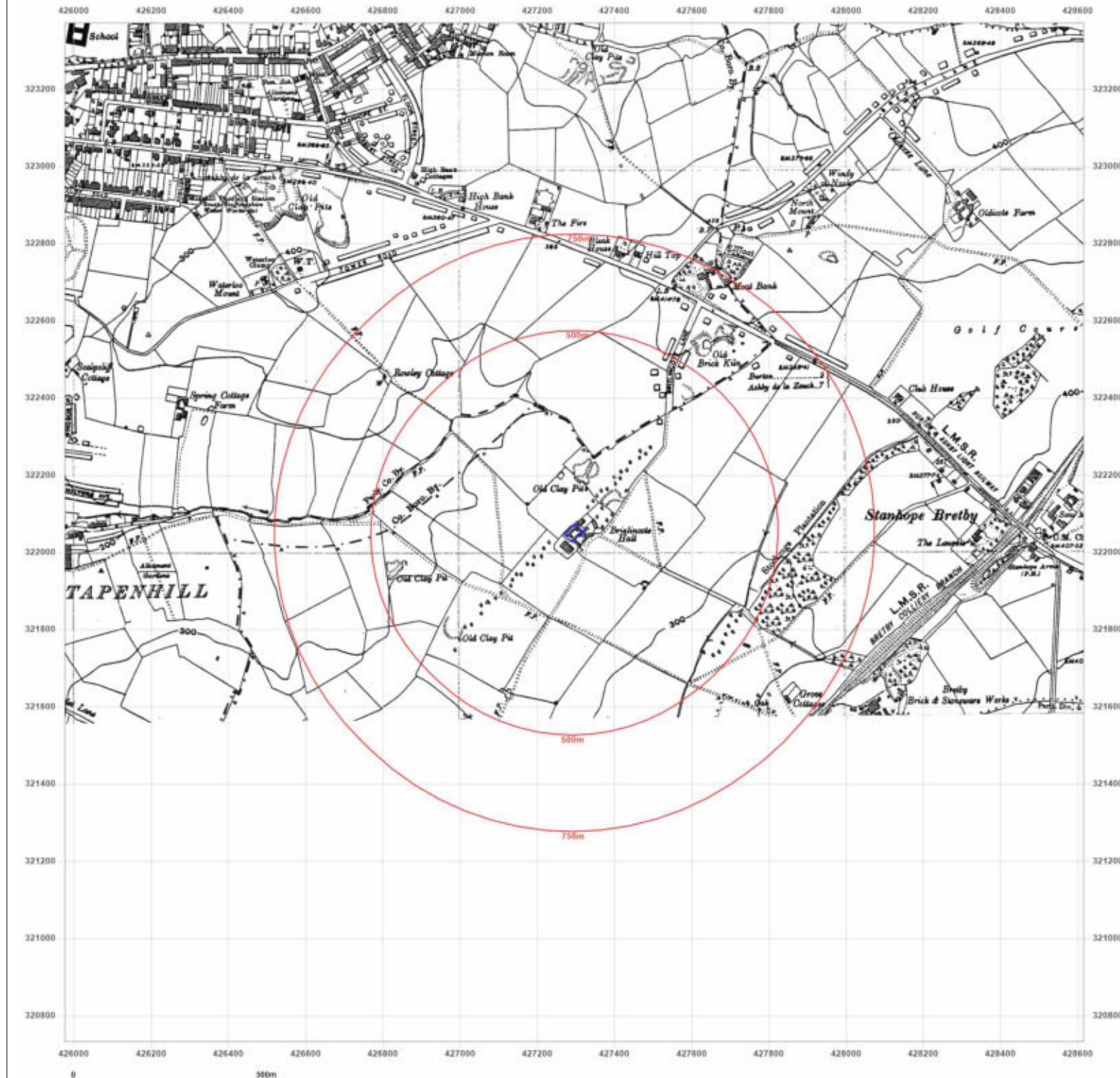


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Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: Provisional

Map date: 1955

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised 1954
Edition N/A
Copyright 1955
Levelled N/A



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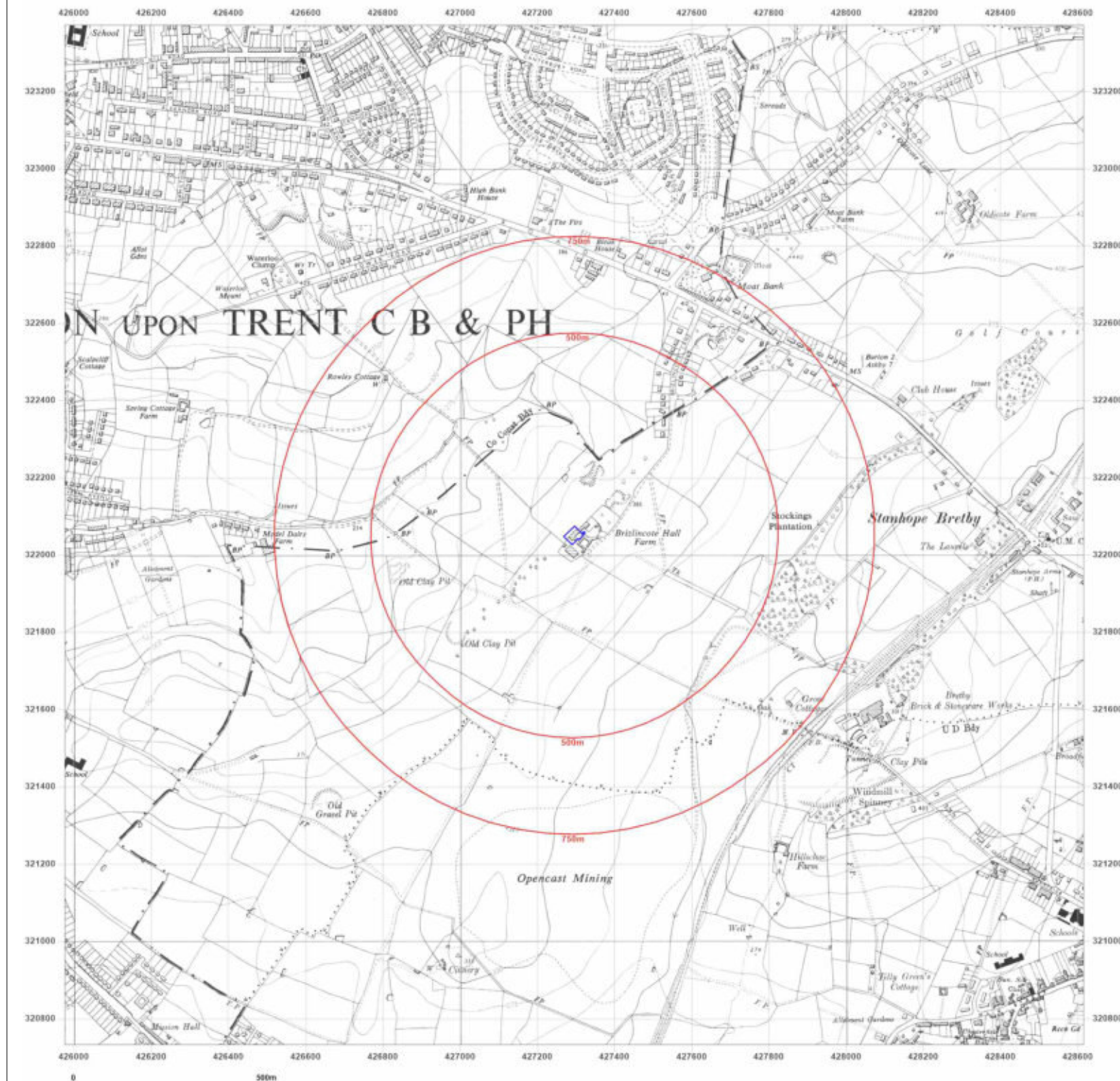


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Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: National Grid

Map date: 1969

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1969
Revised 1969
Edition N/A
Copyright N/A
Levelled N/A



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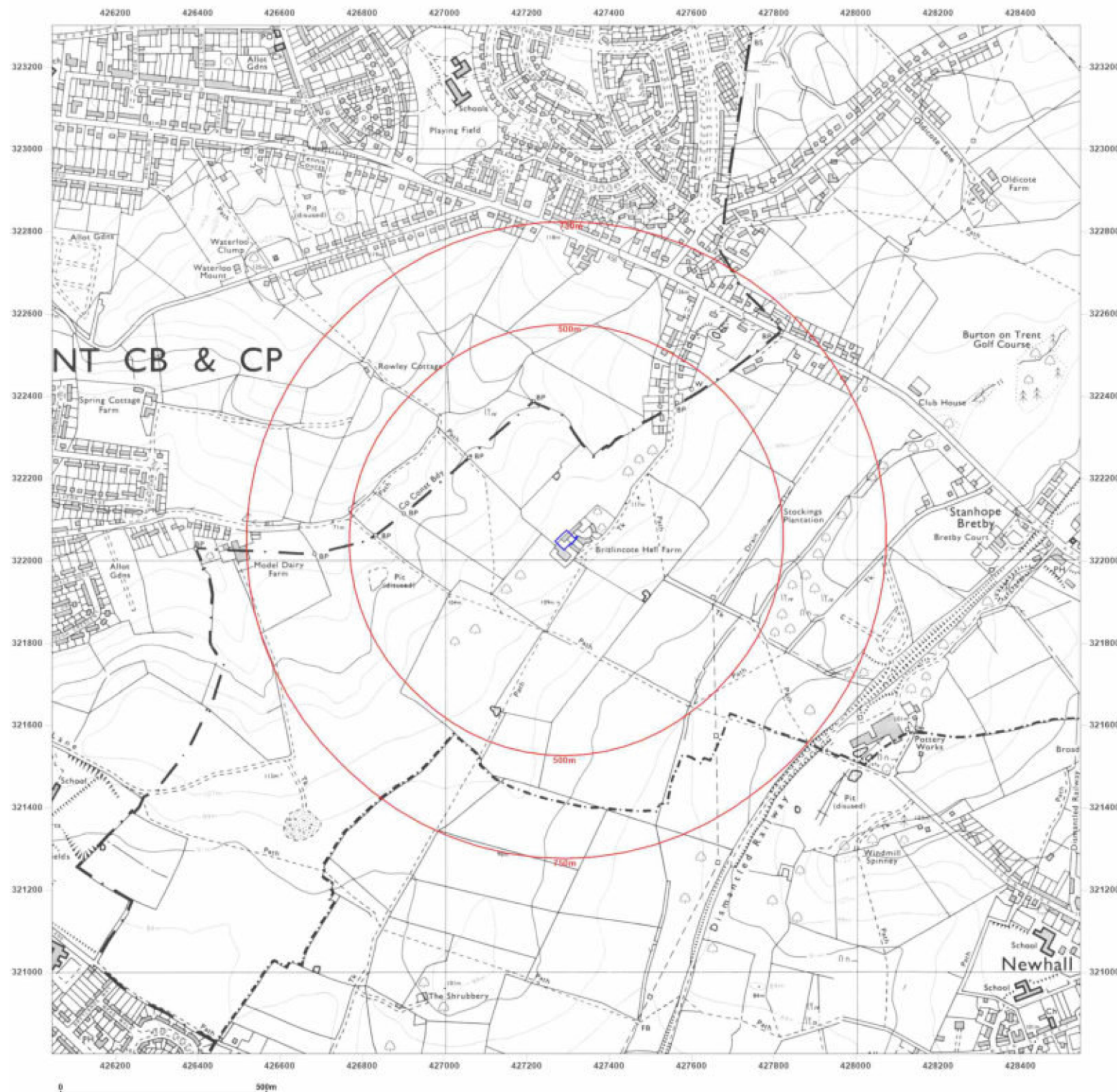


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Site Details:

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Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: National Grid

Map date: 1980

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1975
Revised 1980
Edition N/A
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Site Details:

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Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: National Grid

Map date: 1990

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1987
Revised 1990
Edition N/A
Copyright N/A
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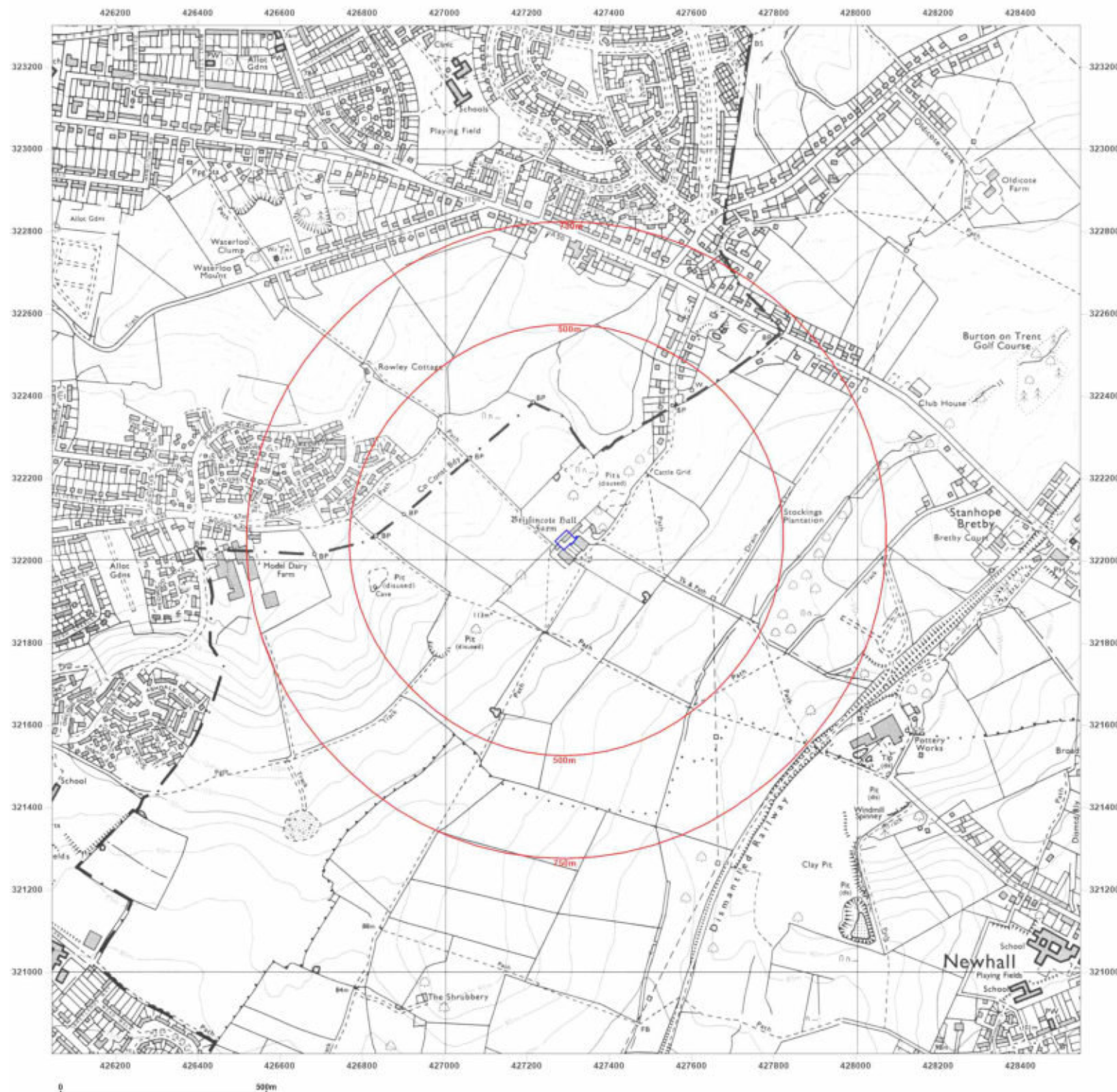


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Site Details:

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Burton Upon Trent, DE15 0PR

Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



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Site Details:

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Burton Upon Trent, DE15 0PR

Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



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Site Details:

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Client Ref: EMS_783614_973054
Report Ref: EMS-783614_1011500
Grid Ref: 427295, 322051

Map Name: National Grid

Map date: 2022

Scale: 1:10,000

Printed at: 1:10,000



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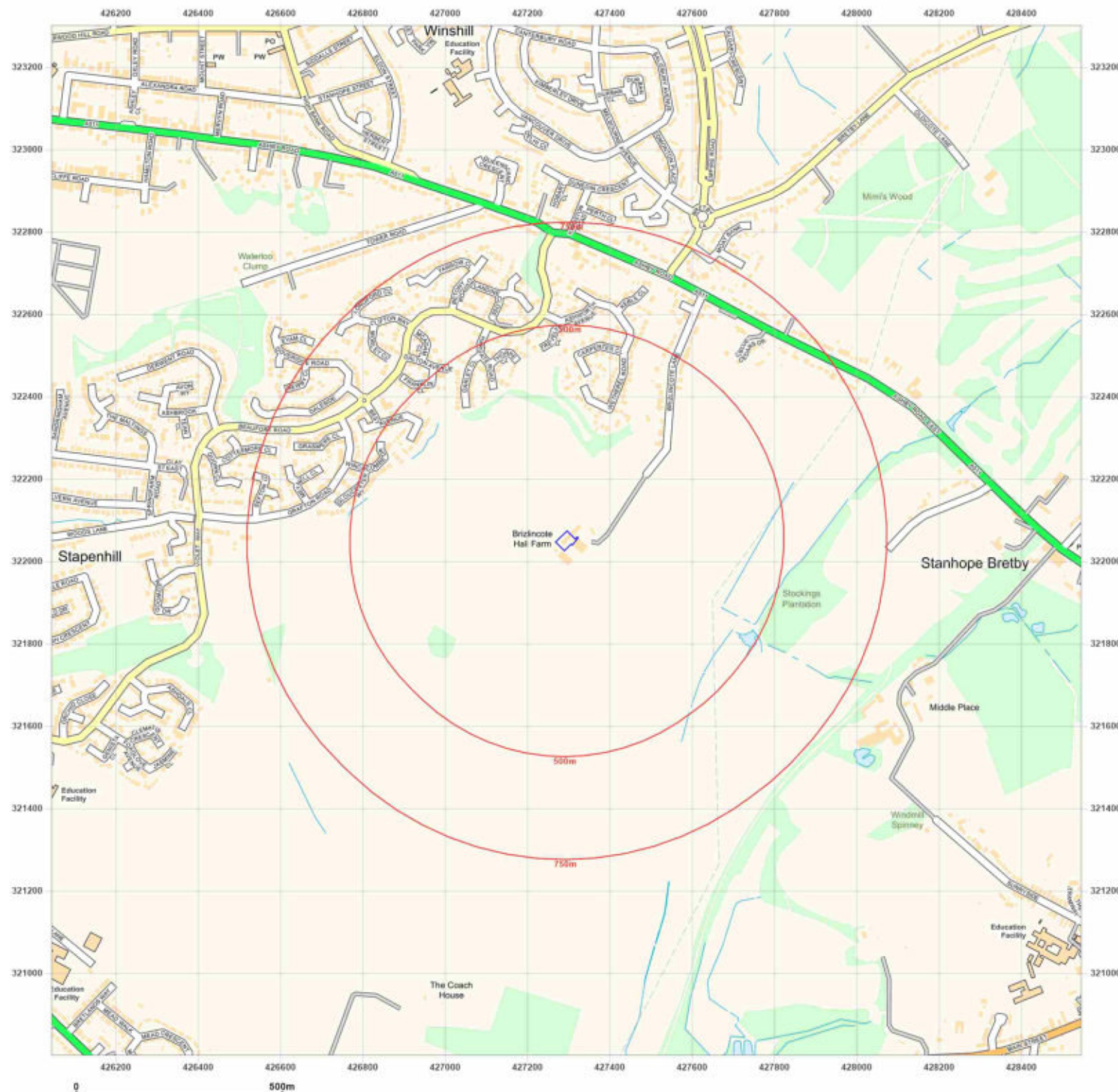


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Appendix C



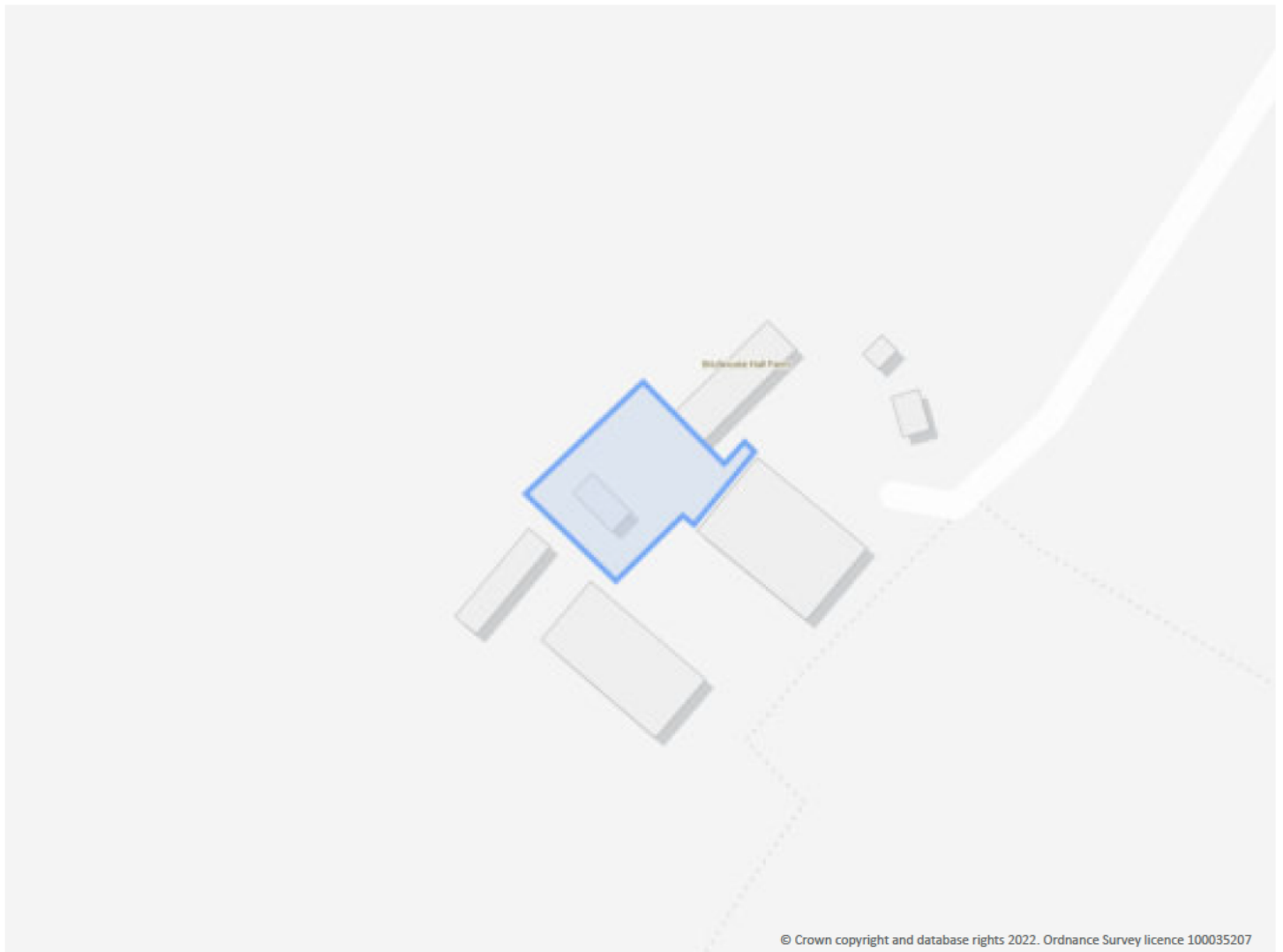
Brizlincote Hall - West Barn, Burton Upon Trent, DE15 0PR

Order Details

Date: 25/05/2022
Your ref: EMS_783614_973054
Our Ref: EMS-783614_1011501

Site Details

Location: 427293 322051
Area: 0.12 ha
Authority: [South Derbyshire District Council](#)



Summary of findings

p. 2 **Aerial image**

p. 8

OS MasterMap site plan

p.13 groundsure.com/insightuserguide

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	Historical industrial land uses	0	1	12	15	-
16	1.2	Historical tanks	1	0	0	0	-
16	1.3	Historical energy features	0	0	0	1	-
16	1.4	Historical petrol stations	0	0	0	0	-
17	1.5	Historical garages	0	0	0	0	-
17	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
18	2.1	Historical industrial land uses	0	1	14	23	-
20	2.2	Historical tanks	3	0	0	0	-
20	2.3	Historical energy features	0	0	0	2	-
21	2.4	Historical petrol stations	0	0	0	0	-
21	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
22	3.1	Active or recent landfill	0	0	0	0	-
22	3.2	Historical landfill (BGS records)	0	0	0	0	-
23	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
23	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
23	3.5	Historical waste sites	0	0	0	0	-
23	3.6	Licensed waste sites	0	0	0	0	-
23	3.7	Waste exemptions	0	20	1	0	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
26	4.1	Recent industrial land uses	0	0	2	-	-
27	4.2	Current or recent petrol stations	0	0	0	0	-
27	4.3	Electricity cables	0	0	0	0	-
27	4.4	Gas pipelines	0	0	0	0	-
27	4.5	Sites determined as Contaminated Land	0	0	0	0	-



27	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
28	4.7	Regulated explosive sites	0	0	0	0	-
28	4.8	Hazardous substance storage/usage	0	0	0	0	-
28	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
28	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
28	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
29	4.12	Radioactive Substance Authorisations	0	0	0	0	-
29	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
29	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
29	4.15	Pollutant release to public sewer	0	0	0	0	-
29	4.16	List 1 Dangerous Substances	0	0	0	0	-
30	4.17	List 2 Dangerous Substances	0	0	0	0	-
30	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
30	4.19	Pollution inventory substances	0	0	0	0	-
30	4.20	Pollution inventory waste transfers	0	0	0	0	-
30	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
31	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
32	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
34	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
35	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
35	5.5	Groundwater vulnerability- local information	None (within 0m)				
36	5.6	<u>Groundwater abstractions</u>	0	0	0	0	1
37	5.7	Surface water abstractions	0	0	0	0	0
37	5.8	Potable abstractions	0	0	0	0	0
37	5.9	Source Protection Zones	0	0	0	0	-
38	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
39	6.1	Water Network (OS MasterMap)	0	0	0	-	-

39	6.2	Surface water features	0	0	0	-	-
40	6.3	<u>WFD Surface water body catchments</u>	2	-	-	-	-
40	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
41	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
42	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
42	7.2	Historical Flood Events	0	0	0	-	-
42	7.3	Flood Defences	0	0	0	-	-
43	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
43	7.5	Flood Storage Areas	0	0	0	-	-
44	7.6	Flood Zone 2	None (within 50m)				
44	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
45	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding					
46	9.1	<u>Groundwater flooding</u>	Negligible (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
47	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
48	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
48	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
48	10.4	Special Protection Areas (SPA)	0	0	0	0	0
48	10.5	National Nature Reserves (NNR)	0	0	0	0	0
49	10.6	<u>Local Nature Reserves (LNR)</u>	0	0	0	0	1
49	10.7	<u>Designated Ancient Woodland</u>	0	0	0	0	1
49	10.8	Biosphere Reserves	0	0	0	0	0
50	10.9	Forest Parks	0	0	0	0	0
50	10.10	Marine Conservation Zones	0	0	0	0	0
50	10.11	<u>Green Belt</u>	1	0	0	2	2
50	10.12	Proposed Ramsar sites	0	0	0	0	0



51	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
51	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
51	10.15	Nitrate Sensitive Areas	0	0	0	0	0
51	10.16	<u>Nitrate Vulnerable Zones</u>	2	0	0	0	0
53	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
54	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
55	11.1	World Heritage Sites	0	0	0	-	-
56	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
56	11.3	National Parks	0	0	0	-	-
56	11.4	<u>Listed Buildings</u>	0	2	1	-	-
57	11.5	Conservation Areas	0	0	0	-	-
57	11.6	Scheduled Ancient Monuments	0	0	0	-	-
57	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
58	12.1	<u>Agricultural Land Classification</u>	Grade 3 (within 250m)				
59	12.2	Open Access Land	0	0	0	-	-
59	12.3	Tree Felling Licences	0	0	0	-	-
60	12.4	<u>Environmental Stewardship Schemes</u>	1	0	0	-	-
60	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
61	13.1	<u>Priority Habitat Inventory</u>	0	1	0	-	-
62	13.2	Habitat Networks	0	0	0	-	-
62	13.3	Open Mosaic Habitat	0	0	0	-	-
62	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
63	14.1	<u>10k Availability</u>	Identified (within 500m)				
64	14.2	Artificial and made ground (10k)	0	0	0	0	-
65	14.3	Superficial geology (10k)	0	0	0	0	-

65	14.4	Landslip (10k)	0	0	0	0	-
66	14.5	Bedrock geology (10k)	0	0	0	0	-
66	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
67	15.1	<u>50k Availability</u>	Identified (within 500m)				
68	15.2	<u>Artificial and made ground (50k)</u>	0	0	1	1	-
69	15.3	Artificial ground permeability (50k)	0	0	-	-	-
70	15.4	<u>Superficial geology (50k)</u>	0	0	0	1	-
71	15.5	Superficial permeability (50k)	None (within 50m)				
71	15.6	Landslip (50k)	0	0	0	0	-
71	15.7	Landslip permeability (50k)	None (within 50m)				
72	15.8	<u>Bedrock geology (50k)</u>	1	2	8	4	-
73	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
74	15.10	<u>Bedrock faults and other linear features (50k)</u>	0	0	4	6	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
75	16.1	<u>BGS Boreholes</u>	0	0	2	-	-
Page	Section	Natural ground subsidence					
76	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
77	17.2	<u>Running sands</u>	Negligible (within 50m)				
78	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
79	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
80	17.5	<u>Landslides</u>	Low (within 50m)				
82	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
83	18.1	Natural cavities	0	0	0	0	-
84	18.2	<u>BritPits</u>	0	0	1	2	-
84	18.3	<u>Surface ground workings</u>	0	1	14	-	-
85	18.4	<u>Underground workings</u>	0	0	0	0	3
86	18.5	Historical Mineral Planning Areas	0	0	0	0	-



86	18.6	<u>Non-coal mining</u>	0	0	1	0	0
86	18.7	Mining cavities	0	0	0	0	0
86	18.8	<u>JPB mining areas</u>	Identified (within 0m)				
87	18.9	<u>Coal mining</u>	Identified (within 0m)				
87	18.10	Brine areas	None (within 0m)				
87	18.11	Gypsum areas	None (within 0m)				
88	18.12	Tin mining	None (within 0m)				
88	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
89	19.1	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
90	20.1	<u>BGS Estimated Background Soil Chemistry</u>	1	4	-	-	-
90	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
91	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
92	21.1	Underground railways (London)	0	0	0	-	-
92	21.2	Underground railways (Non-London)	0	0	0	-	-
92	21.3	Railway tunnels	0	0	0	-	-
92	21.4	Historical railway and tunnel features	0	0	0	-	-
92	21.5	Royal Mail tunnels	0	0	0	-	-
93	21.6	Historical railways	0	0	0	-	-
93	21.7	Railways	0	0	0	-	-
93	21.8	Crossrail 1	0	0	0	0	-
93	21.9	Crossrail 2	0	0	0	0	-
93	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 20/04/2019

Site Area: 0.12ha



Recent site history - 2018 aerial photograph



Capture Date: 01/07/2018

Site Area: 0.12ha



Recent site history - 2010 aerial photograph



Capture Date: 24/04/2010

Site Area: 0.12ha



Recent site history - 2009 aerial photograph



Capture Date: 31/05/2009

Site Area: 0.12ha

Recent site history - 1999 aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2022. All Rights Reserved.

Capture Date: 17/11/1999

Site Area: 0.12ha



OS MasterMap site plan



Site Area: 0.12ha

1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

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1.1 Historical industrial land uses

Records within 500m

28

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
2	14m SW	Opencast Mining	1955	1572168



ID	Location	Land use	Dates present	Group ID
A	84m NE	Unspecified Pit	1900	1608069
A	84m NE	Old Clay Pits	1924 - 1938	1715570
A	86m NE	Unspecified Ground Workings	1955	1564844
A	88m NE	Old Clay Pits	1924	1687114
A	89m NE	Unspecified Disused Pits	1980	1589637
B	108m N	Unspecified Ground Workings	1955	1660107
B	110m N	Unspecified Ground Workings	1900	1737804
B	110m N	Old Clay Pits	1924 - 1938	1738992
B	113m N	Unspecified Disused Pit	1990	1589444
B	113m N	Unspecified Disused Pits	1980	1589636
B	113m N	Old Clay Pits	1924	1674495
B	116m N	Unspecified Pit	1882	1608070
C	356m SW	Unspecified Pit	1882 - 1900	1630281
C	356m SW	Old Clay Pit	1924 - 1938	1660414
C	356m SW	Old Clay Pit	1955	1743283
C	356m SW	Old Clay Pit	1924	1701494
C	360m SW	Unspecified Disused Pit	1980 - 1990	1704133
D	406m W	Old Clay Pit	1955	1622536
D	406m W	Unspecified Disused Pit	1990	1663915
D	406m W	Unspecified Disused Pit	1969	1714610
D	407m W	Unspecified Ground Workings	1882 - 1900	1685619
D	407m W	Old Clay Pit	1924 - 1938	1691404
D	408m W	Old Clay Pit	1924	1625751
D	413m W	Unspecified Disused Pit	1980	1742508
E	433m NE	Unspecified Heap	1924 - 1938	1639548
E	440m NE	Unspecified Heap	1955	1675863
3	497m NE	Old Brick Kiln	1924	1607131

This data is sourced from Ordnance Survey / Groundsure.



1.2 Historical tanks

Records within 500m

1

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Tank	1951 - 1960	279284

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

1

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
E	419m NE	Electricity Substation	1973 - 1994	152996

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.



1.5 Historical garages

Records within 500m

0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.

2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

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2.1 Historical industrial land uses

Records within 500m

38

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 18**

ID	Location	Land Use	Date	Group ID
1	14m SW	Opencast Mining	1955	1572168
B	84m NE	Unspecified Pit	1900	1608069
B	84m NE	Old Clay Pits	1938	1715570

ID	Location	Land Use	Date	Group ID
B	84m NE	Old Clay Pits	1924	1715570
B	86m NE	Unspecified Ground Workings	1955	1564844
B	88m NE	Old Clay Pits	1924	1687114
B	89m NE	Unspecified Disused Pits	1980	1589637
C	108m N	Unspecified Ground Workings	1955	1660107
C	110m N	Unspecified Ground Workings	1900	1737804
C	110m N	Old Clay Pits	1938	1738992
C	110m N	Old Clay Pits	1924	1738992
C	113m N	Unspecified Disused Pit	1990	1589444
C	113m N	Unspecified Disused Pits	1980	1589636
C	113m N	Old Clay Pits	1924	1674495
C	116m N	Unspecified Pit	1882	1608070
D	356m SW	Unspecified Pit	1900	1630281
D	356m SW	Unspecified Pit	1882	1630281
D	356m SW	Old Clay Pit	1938	1660414
D	356m SW	Old Clay Pit	1924	1660414
D	356m SW	Old Clay Pit	1955	1743283
D	356m SW	Old Clay Pit	1924	1701494
D	360m SW	Unspecified Disused Pit	1990	1704133
D	360m SW	Unspecified Disused Pit	1980	1704133
E	406m W	Old Clay Pit	1955	1622536
E	406m W	Unspecified Disused Pit	1990	1663915
E	406m W	Unspecified Disused Pit	1969	1714610
E	407m W	Unspecified Ground Workings	1900	1685619
E	407m W	Unspecified Ground Workings	1882	1685619
E	407m W	Old Clay Pit	1938	1691404
E	407m W	Old Clay Pit	1924	1691404
E	408m W	Old Clay Pit	1924	1625751



ID	Location	Land Use	Date	Group ID
E	413m W	Unspecified Disused Pit	1980	1742508
F	433m NE	Unspecified Heap	1938	1639548
F	433m NE	Unspecified Heap	1924	1639548
F	435m NE	Unspecified Heap	1924	1639548
F	435m NE	Unspecified Heap	1924	1639548
F	440m NE	Unspecified Heap	1955	1675863
2	497m NE	Old Brick Kiln	1924	1607131

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

3

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 18**

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Tank	1951	279284
A	On site	Unspecified Tank	1951	279284
A	On site	Unspecified Tank	1960	279284

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

2

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 18**

ID	Location	Land Use	Date	Group ID
F	419m NE	Electricity Substation	1973	152996



ID	Location	Land Use	Date	Group ID
F	420m NE	Electricity Substation	1994	152996

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0
---------------------	---

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	0
---------------------	---

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



— Site Outline
Search buffers in metres (m)
● Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m**0**

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m**0**

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m**0**

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m**0**

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m**21**

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 22**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	6m SE	-	WEX211940	Disposing of waste exemption	On a Farm	Burning waste in the open
A	6m SE	-	WEX211940	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
A	6m SE	-	WEX211940	Treating waste exemption	On a Farm	Recovery of scrap metal
A	6m SE	-	WEX211940	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	6m SE	-	WEX211940	Using waste exemption	On a Farm	Spreading of plant matter to confer benefit
A	6m SE	-	WEX211940	Using waste exemption	On a Farm	Use of mulch
A	6m SE	-	WEX211940	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
A	6m SE	-	WEX211940	Using waste exemption	On a Farm	Use of waste in construction
A	6m SE	Brizlincote Hall Farm Brizlincote Lane BURTON-ON-TRENT Staffordshire DE15 0PR	EPR/BH0778K H/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
A	6m SE	Brizlincote Hall Farm Brizlincote Lane BURTON-ON-TRENT Staffordshire DE15 0PR	EPR/BH0778K H/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
A	6m SE	Brizlincote Hall Farm Brizlincote Lane BURTON-ON-TRENT Staffordshire DE15 0PR	EPR/BH0778K H/A001	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	6m SE	Brizlincote Hall Farm Brizlincote Lane BURTON-ON-TRENT Staffordshire DE15 0PR	EPR/BH0778K H/A001	Treating waste exemption	Agricultural Waste Only	Recovery of scrap metal
A	6m SE	Brizlincote Hall Farm Brizlincote Lane BURTON-ON-TRENT Staffordshire DE15 0PR	EPR/BH0778K H/A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction



ID	Location	Site	Reference	Category	Sub-Category	Description
A	6m SE	Brizlincote Hall Farm Brizlincote Lane BURTON-ON-TRENT Staffordshire DE15 0PR	EPR/BH0778KH/A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit
A	6m SE	Brizlincote Hall Farm Brizlincote Lane BURTON-ON-TRENT Staffordshire DE15 0PR	EPR/BH0778KH/A001	Using waste exemption	Agricultural Waste Only	Use of mulch
A	6m SE	Brizlincote Hall Farm Brizlincote Lane BURTON-ON-TRENT Staffordshire DE15 0PR	EPR/BH0778KH/A001	Using waste exemption	Agricultural Waste Only	Spreading of plant matter to confer benefit
A	13m SE	BRIZLINCOTE HALL FARM, BRIZLINCOTE LANE, BURTON-ON-TRENT, DE15 0PR	WEX038411	Disposing of waste exemption	On a farm	Burning waste in the open
A	13m SE	BRIZLINCOTE HALL FARM, BRIZLINCOTE LANE, BURTON-ON-TRENT, DE15 0PR	WEX038411	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	13m SE	BRIZLINCOTE HALL FARM, BRIZLINCOTE LANE, BURTON-ON-TRENT, DE15 0PR	WEX038411	Using waste exemption	On a farm	Use of mulch
A	13m SE	BRIZLINCOTE HALL FARM, BRIZLINCOTE LANE, BURTON-ON-TRENT, DE15 0PR	WEX038411	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
1	178m E	Internal Stockpile Reference 9/FAL38_5354	WEX266782	Storing waste exemption	On a farm	Storage of sludge

This data is sourced from the Environment Agency and Natural Resources Wales.



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses

4.1 Recent industrial land uses

Records within 250m

2

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 26**

ID	Location	Company	Address	Activity	Category
1	124m NE	Pit (Disused)	Derbyshire, DE15	Unspecified Quarries Or Mines	Extractive Industries
2	146m N	Pit (Disused)	Derbyshire, DE15	Unspecified Quarries Or Mines	Extractive Industries

This data is sourced from Ordnance Survey.



4.2 Current or recent petrol stations

Records within 500m	0
---------------------	---

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0
---------------------	---

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0
---------------------	---

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0
---------------------	---

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0
---------------------	---

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m

0

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m

0

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m

0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m

0

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m

0

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m

0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m

0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.21 Pollution inventory radioactive waste

Records within 500m

0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



5 Hydrogeology - Superficial aquifer



- Site Outline**
- Search buffers in metres (m)**
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive
 - Unknown

5.1 Superficial aquifer

Records within 500m

1

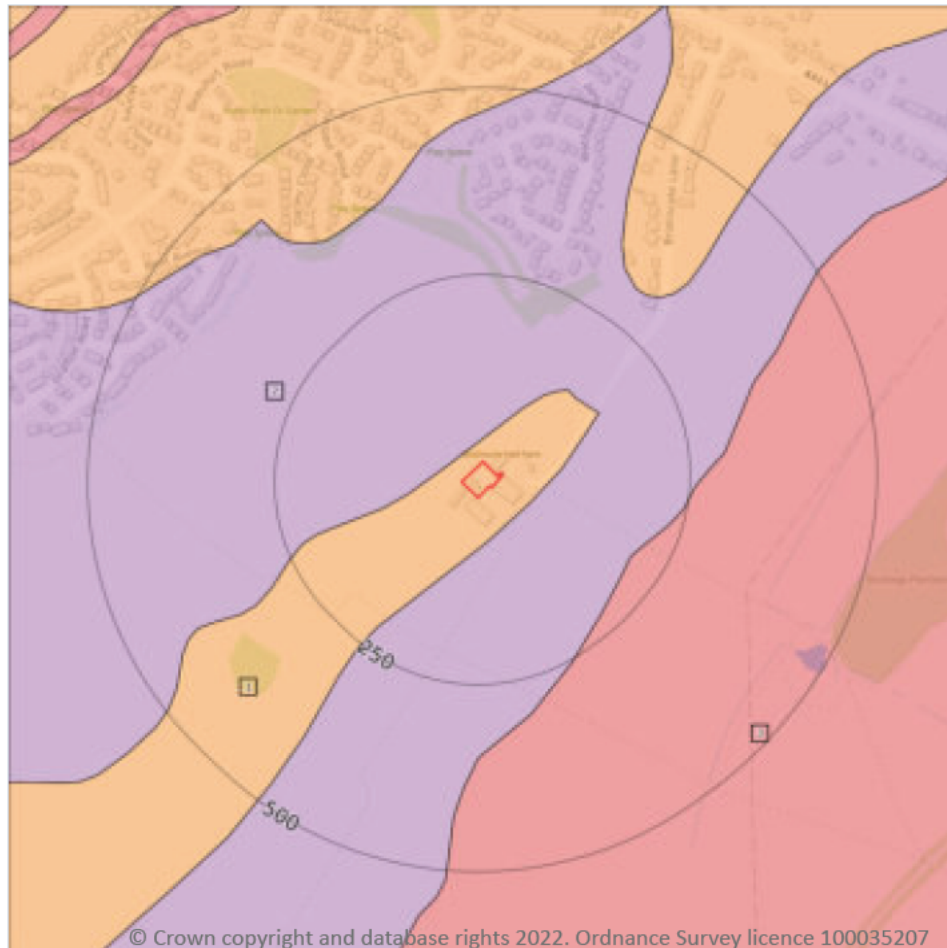
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 31](#)

ID	Location	Designation	Description
1	298m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Bedrock aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive

5.2 Bedrock aquifer

Records within 500m

3

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on page 32

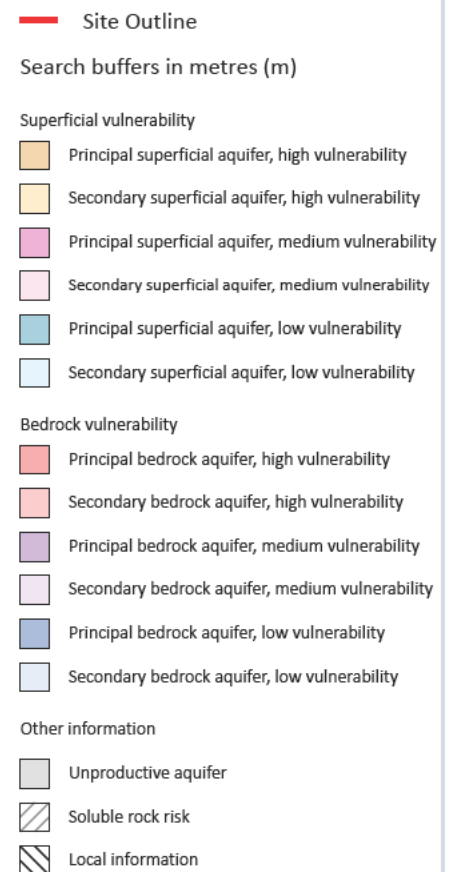
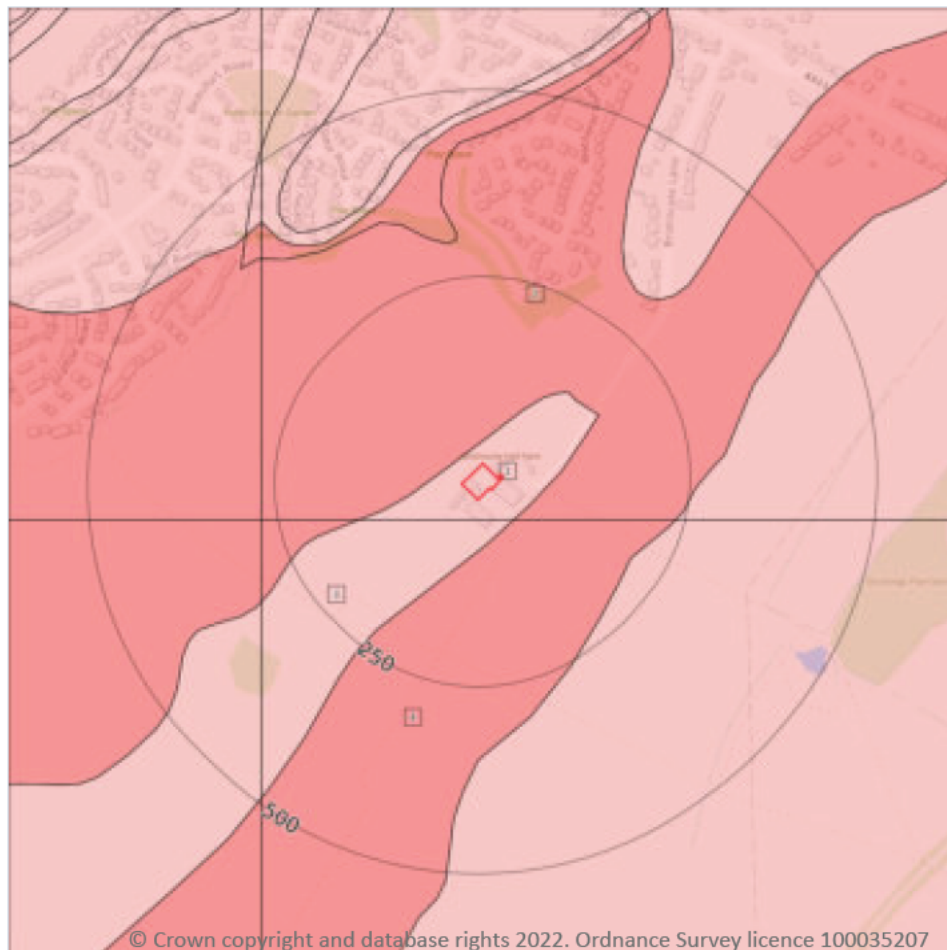
ID	Location	Designation	Description
1	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
2	25m NW	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers



ID	Location	Designation	Description
3	203m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

4

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 34**



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
2	24m NW	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
3	27m S	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
4	49m SE	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

Records on site

0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk.

This data is sourced from the British Geological Survey and the Environment Agency.



Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)**
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
Polygon features
- Drinking water abstraction licences
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m

1

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 36**

ID	Location	Details	
-	1068m W	Status: Historical Licence No: 03/28/24/0016 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: ALLOTMENTS OFF WOODS LANE, STAPENHILL Data Type: Point Name: NORTH STAPENHILL ALLOTMENTS ASS Easting: 426200 Northing: 322000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/10/1965 Expiry Date: - Issue No: 100 Version Start Date: 14/10/1965 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m	0
----------------------	---

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m	0
----------------------	---

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m	0
---------------------	---

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.10 Source Protection Zones (confined aquifer)

Records within 500m

0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.



6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

0

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

0

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.



This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	2
-----------------	---

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on [page 39](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	On site	River	Darklands Brook Catchment (trib of Trent)	GB104028047310	Trent - Tame to Dove Rivers	Tame Anker and Mease
3	On site	River	Trent - R Tame to R Dove	GB104028047180	Trent - Tame to Dove Rivers	Tame Anker and Mease

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified	2
--------------------	---

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on [page 39](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1838m W	River	Trent - R Tame to R Dove	GB104028047180	Poor	Fail	Poor	2019
-	2553m S	River	Darklands Brook Catchment (trib of Trent)	GB104028047310	Moderate	Fail	Moderate	2019

This data is sourced from the Environment Agency and Natural Resources Wales.



6.5 WFD Groundwater bodies

Records on site

1

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on [page 39](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	On site	Tame Anker Mease - PT Sandstone Burton	<u>GB40401G301200</u>	Poor	Poor	Good	2019

This data is sourced from the Environment Agency and Natural Resources Wales.



7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m

0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m

0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.



7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0
--------------------	---

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m	0
--------------------	---

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

8 Surface water flooding

8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

Negligible

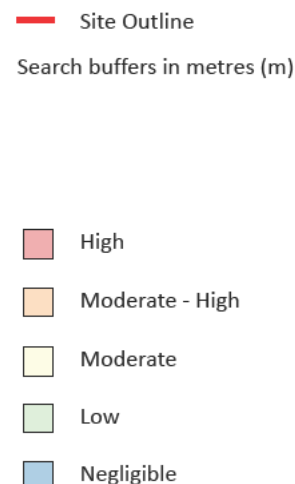
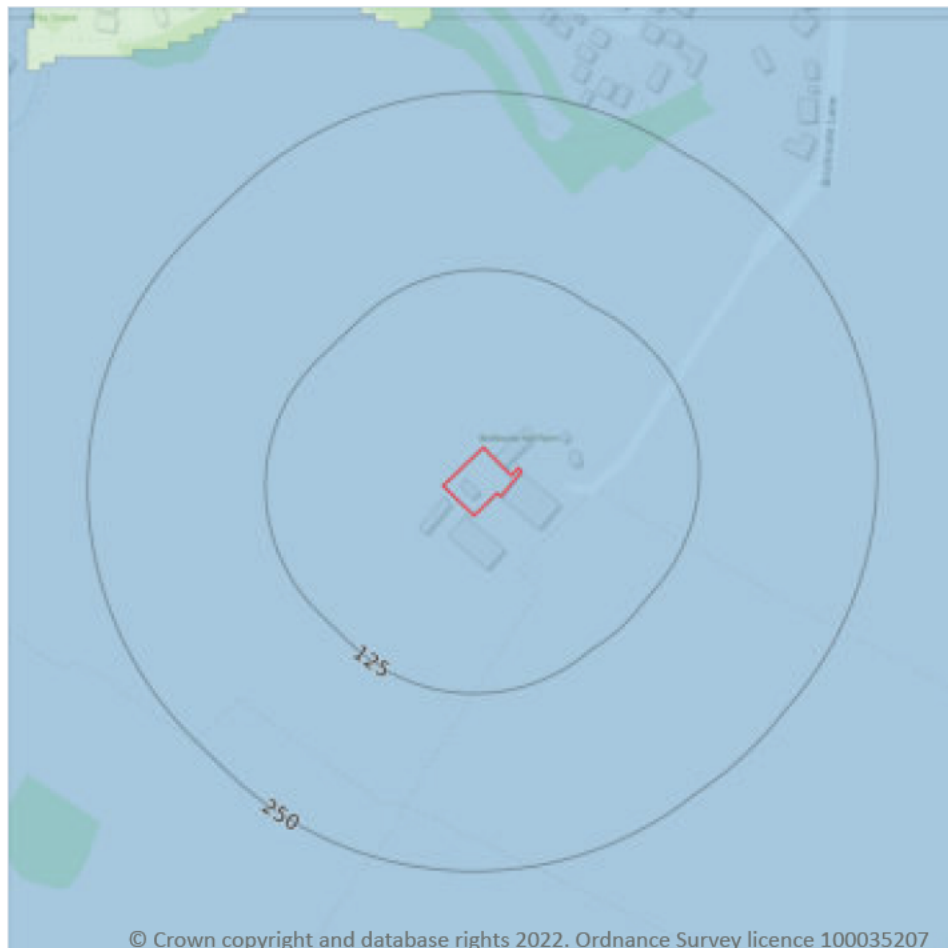
Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Negligible

Highest risk within 50m

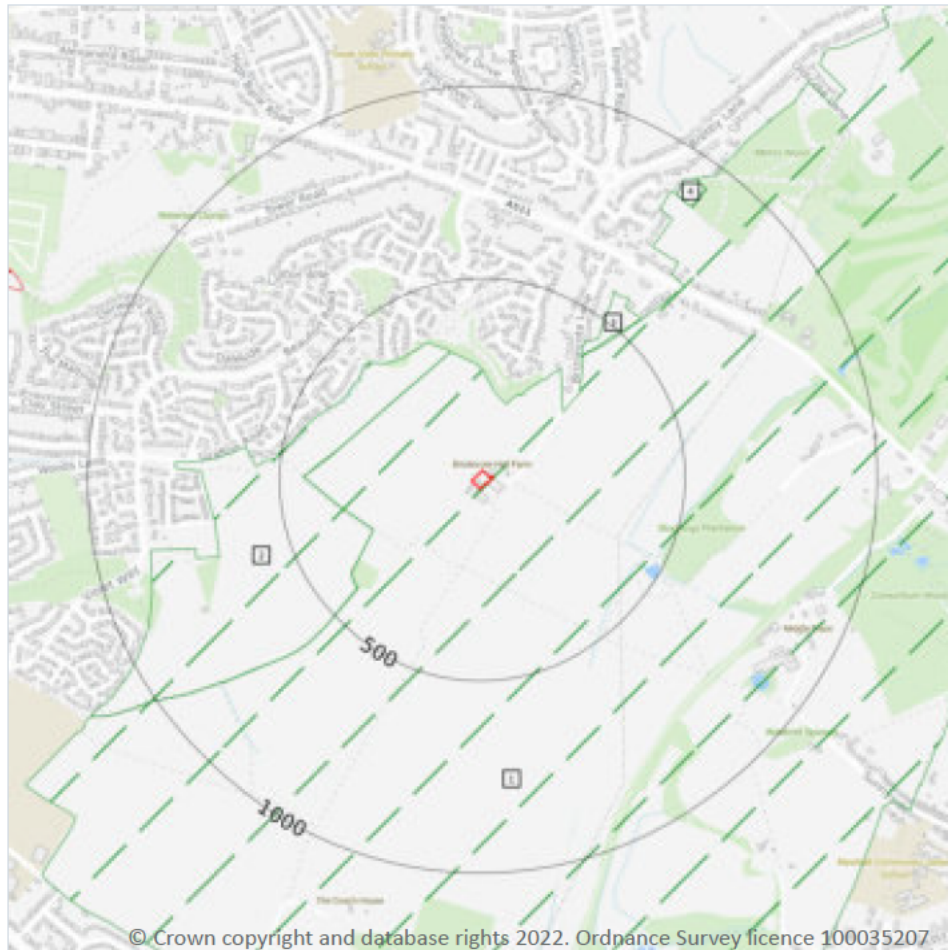
Negligible

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 46**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- + Local Nature Reserves (LNR)
- / Designated Ancient Woodland
- / Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m

1

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

Features are displayed on the Environmental designations map on [page 47](#)

ID	Location	Name	Data source
A	1274m NW	Scalpcliffe Hill	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m

1

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on [page 47](#)

ID	Location	Name	Woodland Type
-	1521m W	Scalpley Wood	Ancient & Semi-Natural Woodland

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m

0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m

5

Areas designated to prevent urban sprawl by keeping land permanently open.

Features are displayed on the Environmental designations map on [page 47](#)

ID	Location	Name	Local Authority name
1	On site	Burton-upon-Trent and Swadlincote	South Derbyshire
2	287m SW	Burton-upon-Trent and Swadlincote	East Staffordshire
3	388m NE	Burton-upon-Trent and Swadlincote	East Staffordshire
4	872m NE	Burton-upon-Trent and Swadlincote	East Staffordshire
-	1726m SW	Burton-upon-Trent and Swadlincote	East Staffordshire

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m

0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.



10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

2

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	River Trent (source to confluence with Derwent)	Surface Water	308	Existing

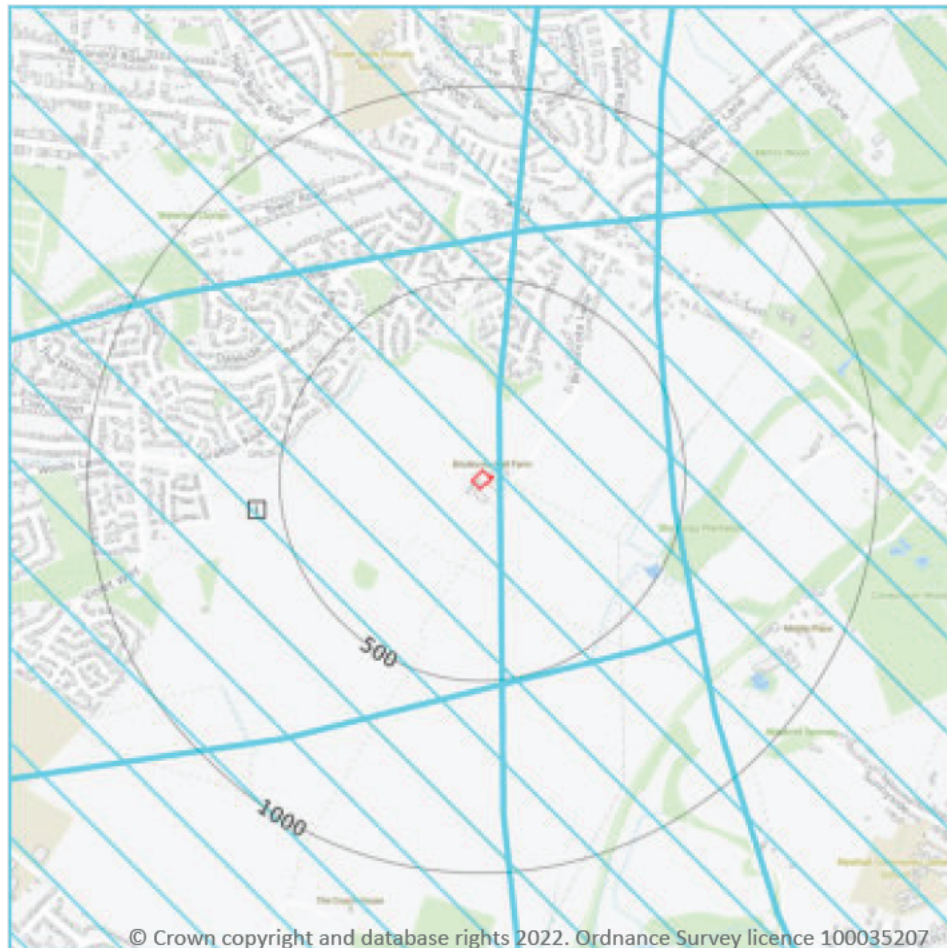


Location	Name	Type	NVZ ID	Status
On site	Burton	Groundwater	34	Existing

This data is sourced from Natural England and Natural Resources Wales.



SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site

1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on [page 53](#)

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 4000m². Combustion - General combustion processes >50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

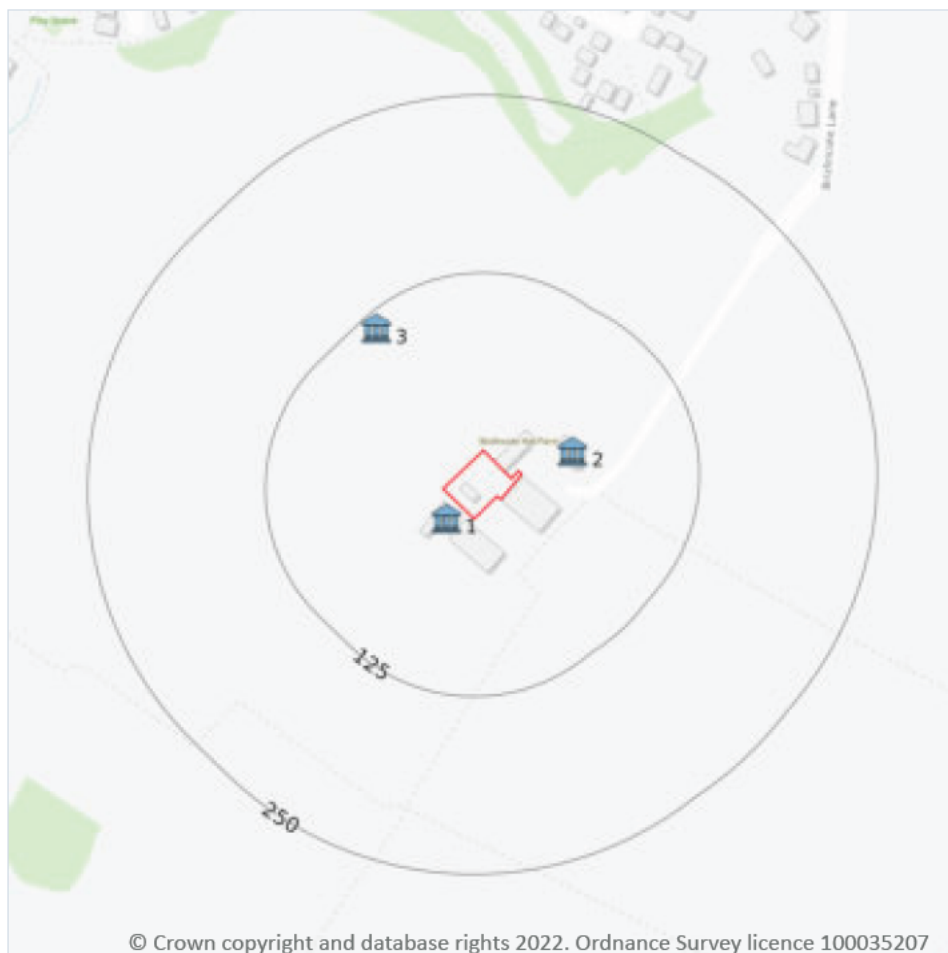
0

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

This data is sourced from Natural England and Natural Resources Wales.



11 Visual and cultural designations



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m

3

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on [page 55](#)

ID	Location	Name	Grade	Reference Number	Listed date
1	13m SW	Brizlincote Hall Farmhouse, Bretby, South Derbyshire, Derbyshire, DE15	II*	1096480	19/01/1967
2	39m NE	Range of Outbuildings To East of Brizlincote Hall Farmhouse, Bretby, South Derbyshire, Derbyshire, DE15	II	1096482	06/01/1987
3	114m NW	Gate Piers and Retaining Wall To North West of Brizlincote Hall Farmhouse, Bretby, South Derbyshire, Derbyshire, DE15	II	1096481	06/01/1987

This data is sourced from Historic England, Cadw and Historic Environment Scotland.



11.5 Conservation Areas

Records within 250m

0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.7 Registered Parks and Gardens

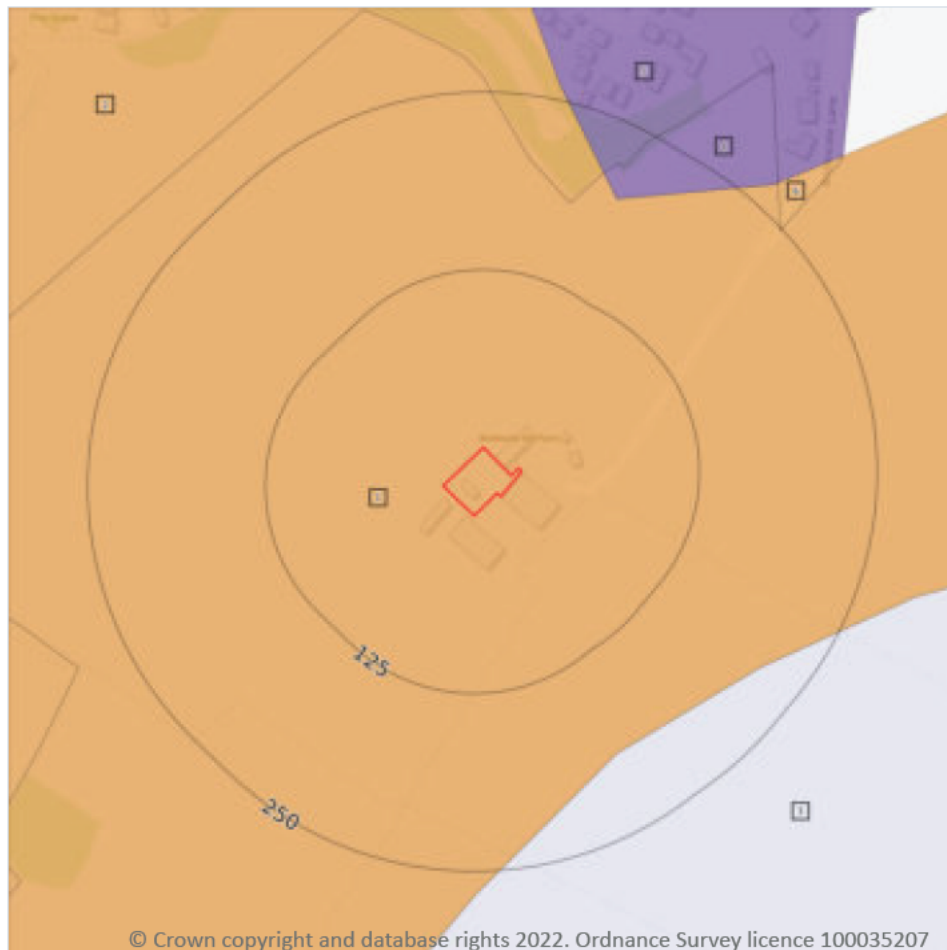
Records within 250m

0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

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12.1 Agricultural Land Classification

Records within 250m

6

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on [page 58](#)

ID	Location	Classification	Description
1	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.



ID	Location	Classification	Description
2	182m N	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
3	195m SE	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.
4	198m NE	Urban	-
5	211m NE	Urban	-
6	248m NE	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m

0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

1

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

Location	Reference	Scheme	Start Date	End date
On site	AG00301427	Entry Level plus Higher Level Stewardship	01/11/2009	31/10/2020

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.



13 Habitat designations



- Site Outline**
- Search buffers in metres (m)**
- Priority Habitat Inventory
 - Open Mosaic Habitat
 - Limestone Pavement Orders
- Habitat Networks**
- Primary Habitat
 - Restorable Habitat
 - Associated Habitats
 - Habitat Restoration-Creation
 - Network Enhancement Zone 1
 - Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m

1

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on [page 61](#)

ID	Location	Main Habitat	Other habitats
1	42m NE	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset

This data is sourced from Natural England.



13.2 Habitat Networks

Records within 250m

0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



- Site Outline
- Search buffers in metres (m)
- Full coverage
 - Partial coverage
 - No coverage

14.1 10k Availability

Records within 500m

1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on [page 63](#)

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	No coverage	No coverage	No coverage	NoCov

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Artificial and made ground

14.2 Artificial and made ground (10k)

Records within 500m

0

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m

0

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m

0

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

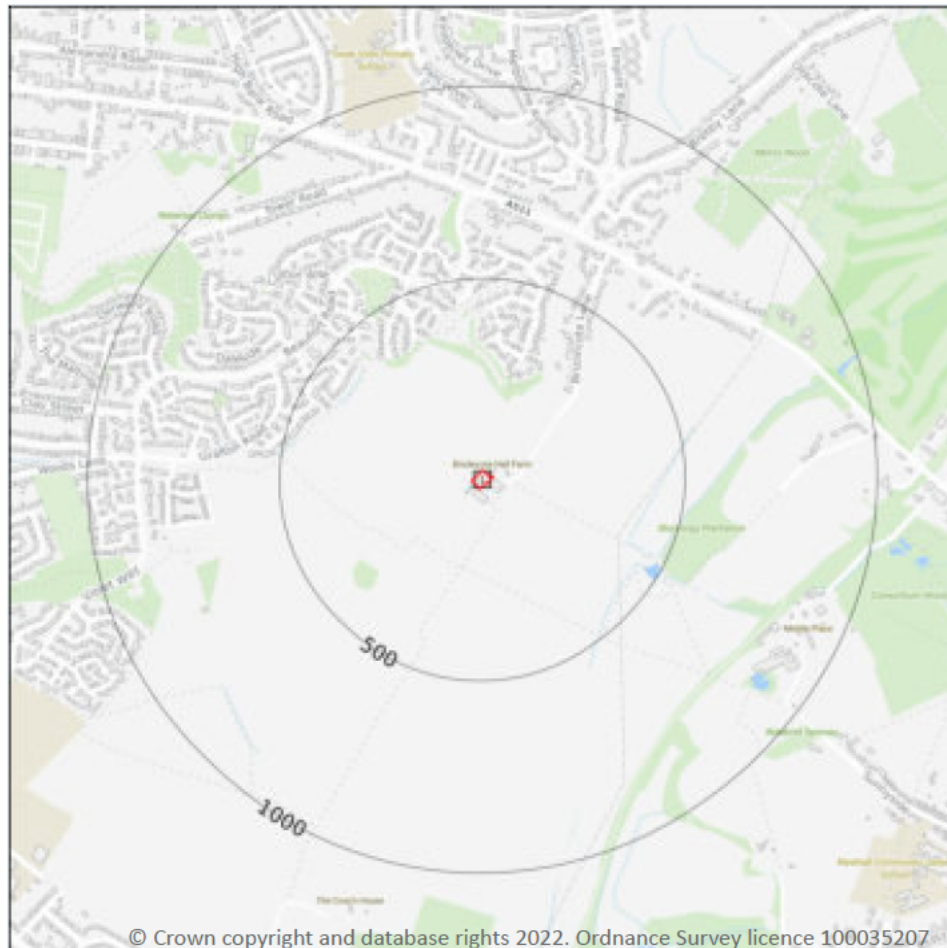
0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



- Site Outline
- Search buffers in metres (m)
- ☐ Geological map tile

15.1 50k Availability

Records within 500m

1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

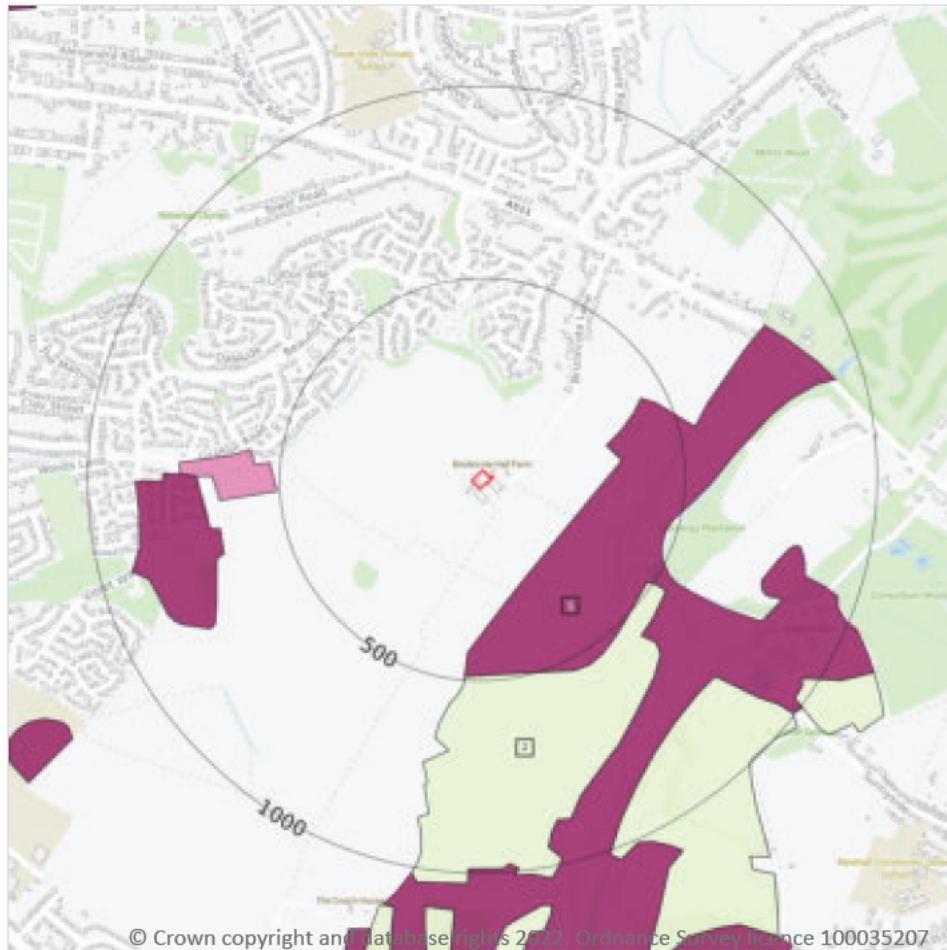
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 67](#)

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW141_loughborough_v4

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Artificial and made ground



- Site Outline
- Search buffers in metres (m)
- Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m

2

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 68](#)

ID	Location	LEX Code	Description	Rock description
1	231m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	486m S	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.



15.3 Artificial ground permeability (50k)

Records within 50m

0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (50k)
- Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

1

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 70](#)

ID	Location	LEX Code	Description	Rock description
1	298m N	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.



15.5 Superficial permeability (50k)

Records within 50m

0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

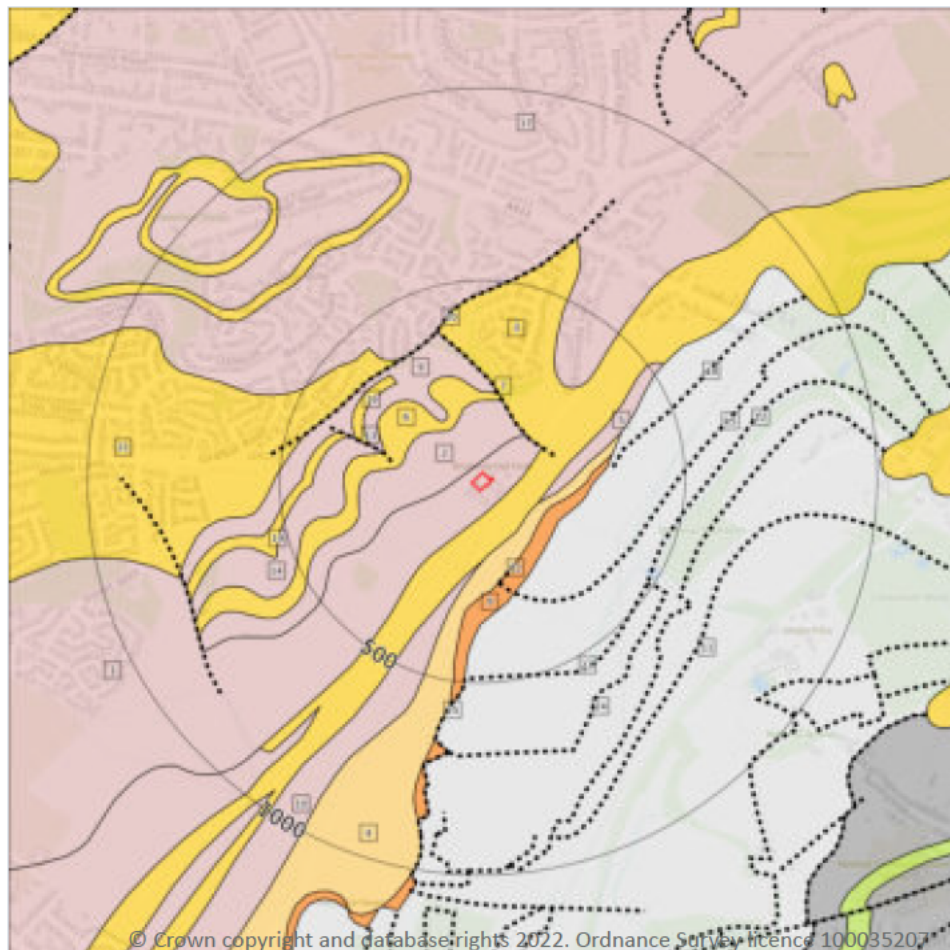
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

..... Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

15

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 72](#)

ID	Location	LEX Code	Description	Rock age
1	On site	TPSF-SIMS	TARPORLEY SILTSTONE FORMATION - SILTSTONE, MUDSTONE AND SANDSTONE	OLENEKIAN
2	25m NW	HEY-MDST	HELSEBY SANDSTONE FORMATION - MUDSTONE	ANISIAN
3	50m SE	HEY-SDST	HELSEBY SANDSTONE FORMATION - SANDSTONE	ANISIAN

ID	Location	LEX Code	Description	Rock age
4	128m SE	CHES-SCON	CHESTER FORMATION - SANDSTONE AND CONGLOMERATE, INTERBEDDED	OLENEKIAN
5	133m SE	HEY-MDST	HELSEBY SANDSTONE FORMATION - MUDSTONE	ANISIAN
6	139m NW	HEY-SDST	HELSEBY SANDSTONE FORMATION - SANDSTONE	ANISIAN
8	162m SE	MOI-BREC	MOIRA FORMATION - BRECCIA	-
9	167m NW	HEY-MDST	HELSEBY SANDSTONE FORMATION - MUDSTONE	ANISIAN
10	182m S	HEY-MDST	HELSEBY SANDSTONE FORMATION - MUDSTONE	ANISIAN
11	203m SE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
14	241m W	HEY-MDST	HELSEBY SANDSTONE FORMATION - MUDSTONE	ANISIAN
16	281m W	HEY-SDST	HELSEBY SANDSTONE FORMATION - SANDSTONE	ANISIAN
17	305m NE	TPSF-SIMS	TARPORLEY SILTSTONE FORMATION - SILTSTONE, MUDSTONE AND SANDSTONE	OLENEKIAN
19	344m W	HEY-SDST	HELSEBY SANDSTONE FORMATION - SANDSTONE	ANISIAN
21	362m NW	HEY-SDST	HELSEBY SANDSTONE FORMATION - SANDSTONE	ANISIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	3
---------------------------	----------

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Moderate	Low
24m W	Fracture	Low	Low
49m E	Mixed	High	Moderate

This data is sourced from the British Geological Survey.



15.10 Bedrock faults and other linear features (50k)

Records within 500m

10

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

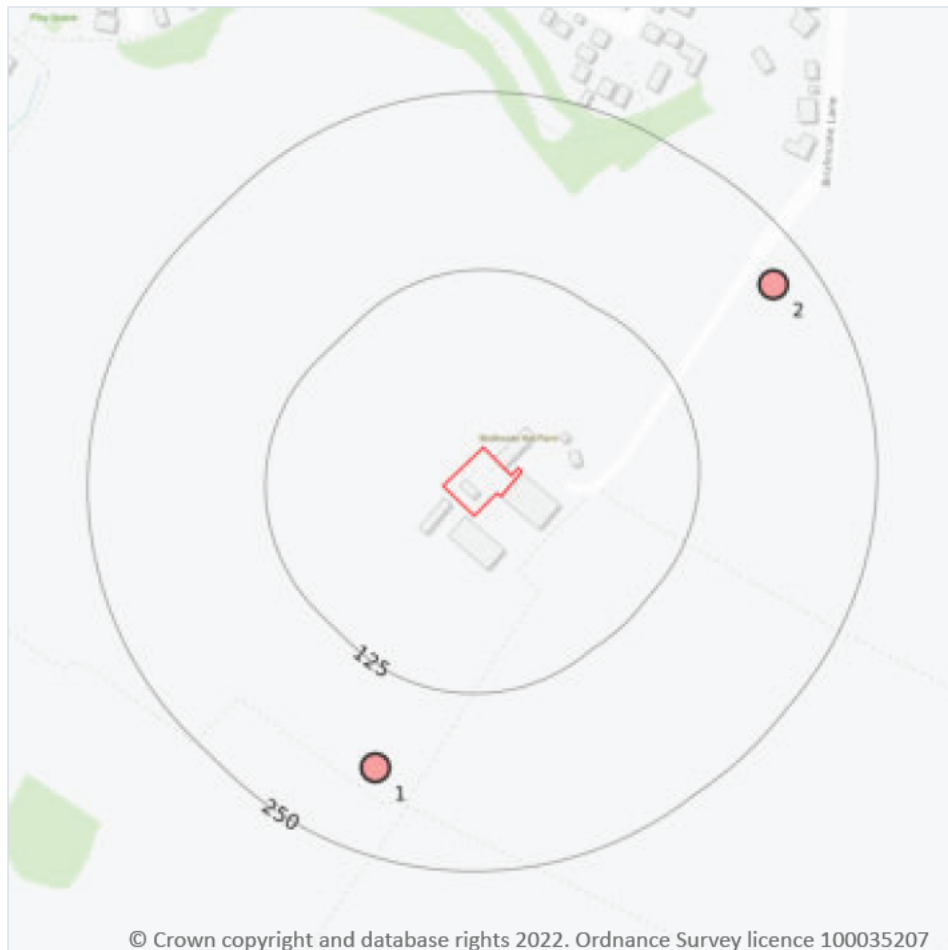
Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 72](#)

ID	Location	Category	Description
7	141m NE	FAULT	Fault, inferred
12	212m SE	ROCK	Coal seam, observed
13	216m W	FAULT	Fault, inferred
15	245m S	ROCK	Coal seam, observed
18	308m E	ROCK	Coal seam, observed
20	361m NW	FAULT	Fault, inferred
22	472m SE	ROCK	Coal seam, observed
23	486m S	ROCK	Coal seam, observed
24	486m SE	ROCK	Coal seam, observed
25	491m S	ROCK	Coal seam, observed

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

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16.1 BGS Boreholes

Records within 250m

2

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

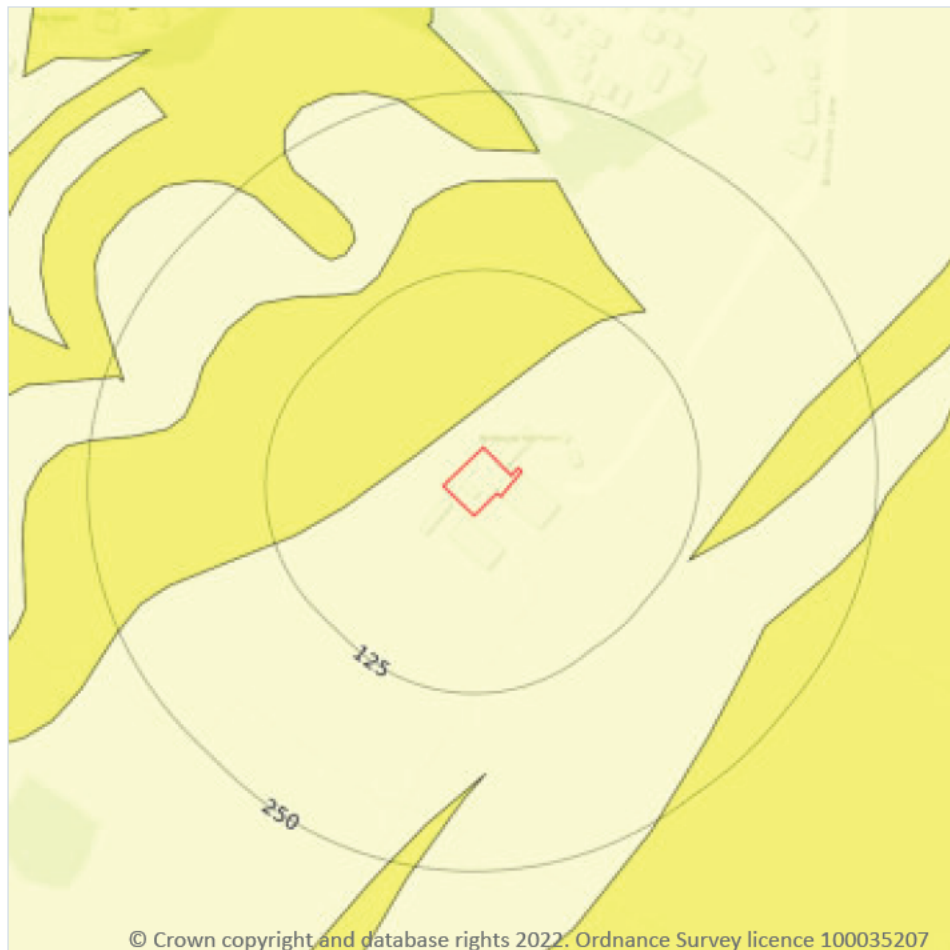
Features are displayed on the Boreholes map on [page 75](#)

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	190m S	427220 321850	BRIZLINCOTE HALL FARM	87.48	N	200477
2	221m NE	427500 322190	BRIZLINCOTE LANE	67.97	N	200475

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



- Site Outline**
- Search buffers in metres (m)**
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.1 Shrink swell clays

Records within 50m

2

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

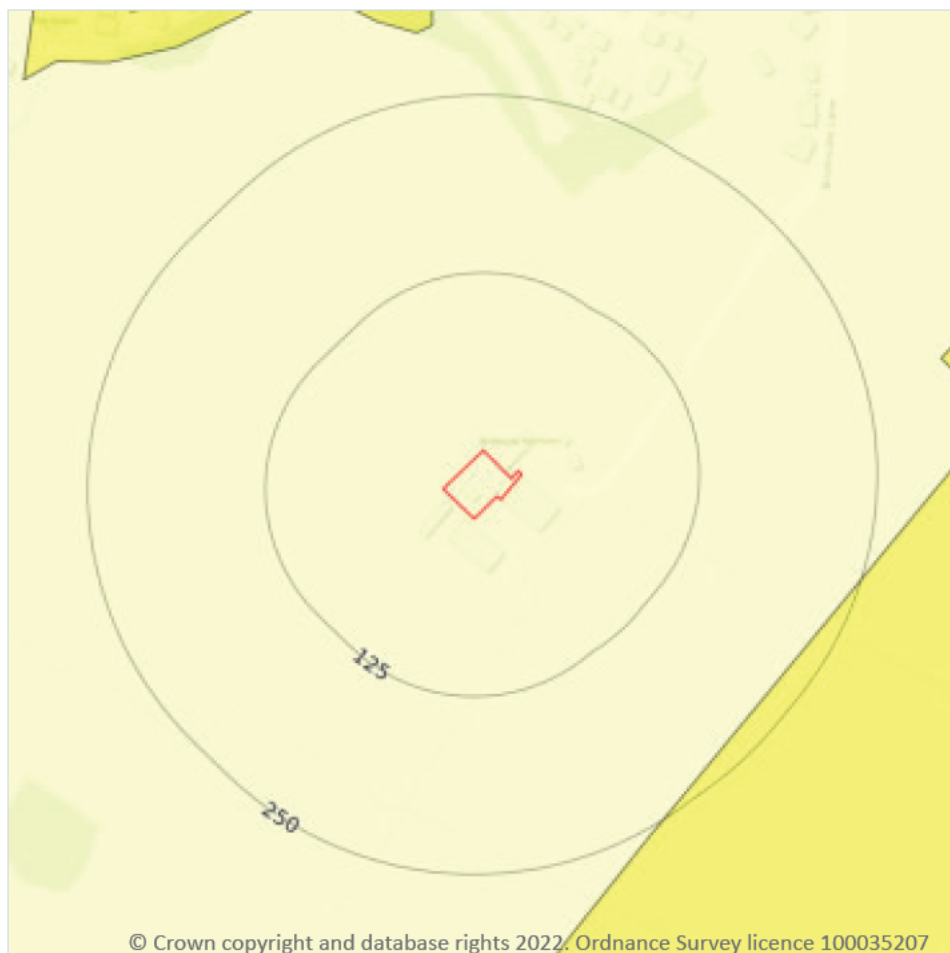
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 76](#)

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
25m NW	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.2 Running sands

Records within 50m

1

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

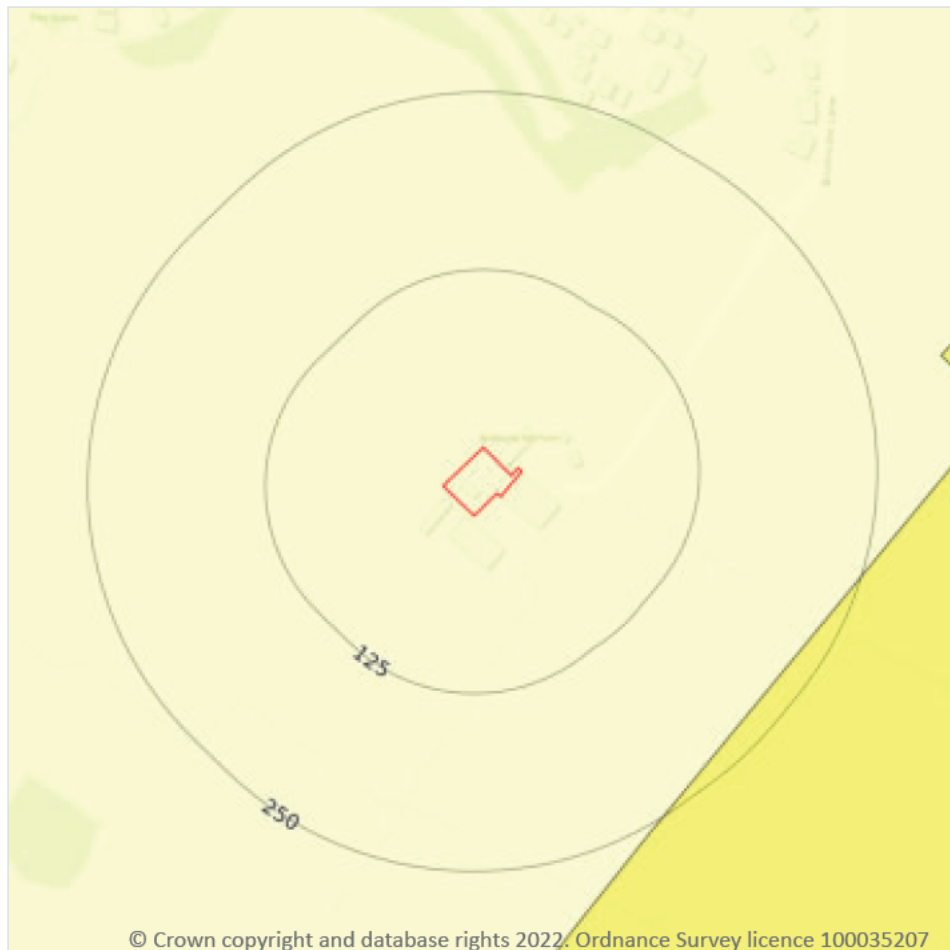
Features are displayed on the Natural ground subsidence - Running sands map on [page 77](#)

Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.3 Compressible deposits

Records within 50m

1

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

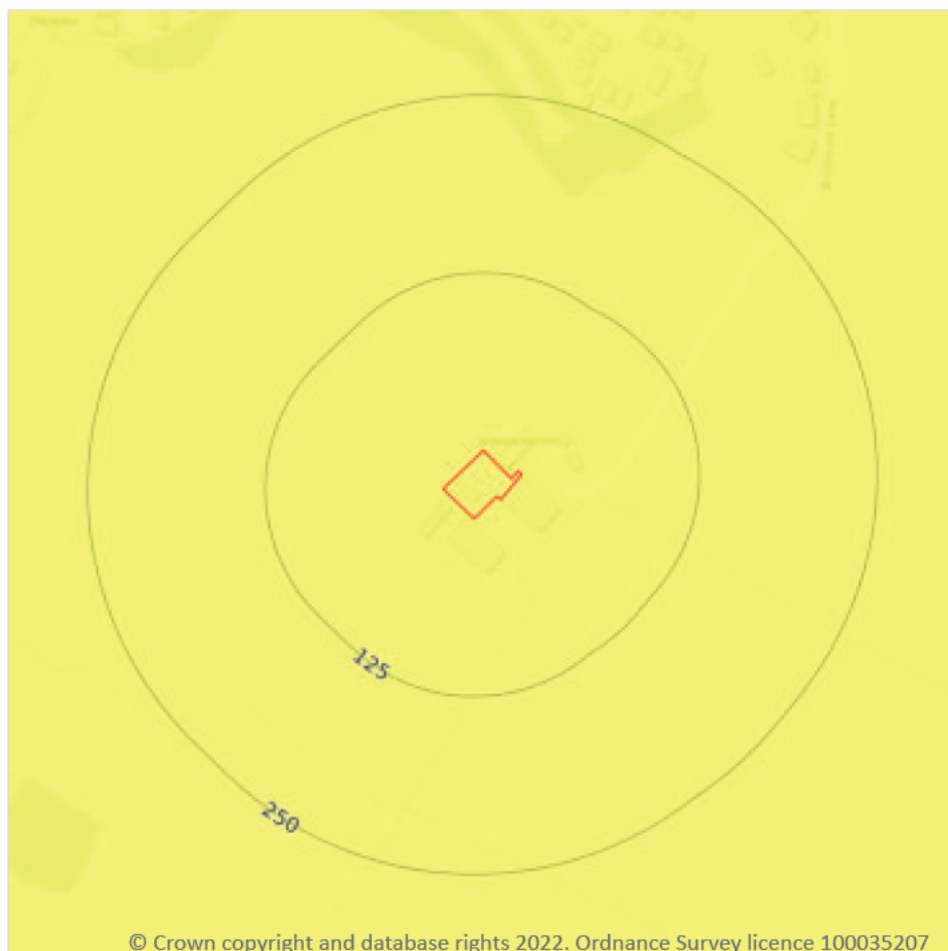
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 78**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☒ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.4 Collapsible deposits

Records within 50m

1

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

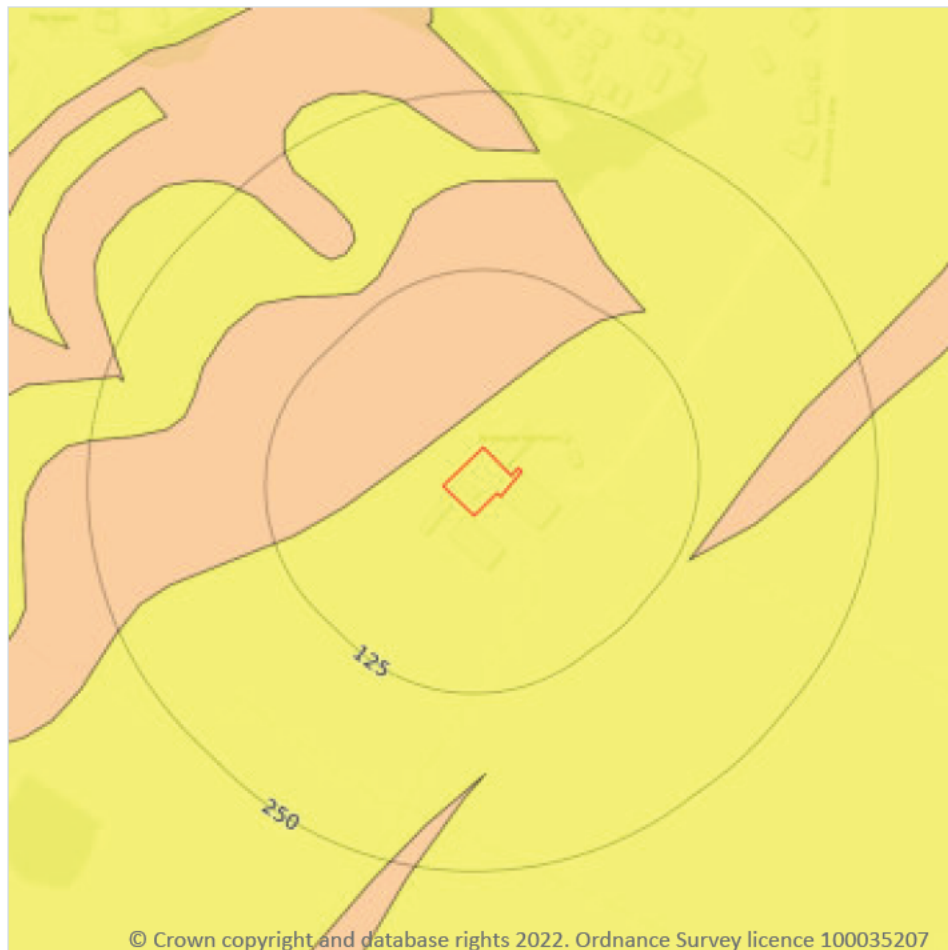
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 79](#)

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.5 Landslides

Records within 50m

2

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 80**

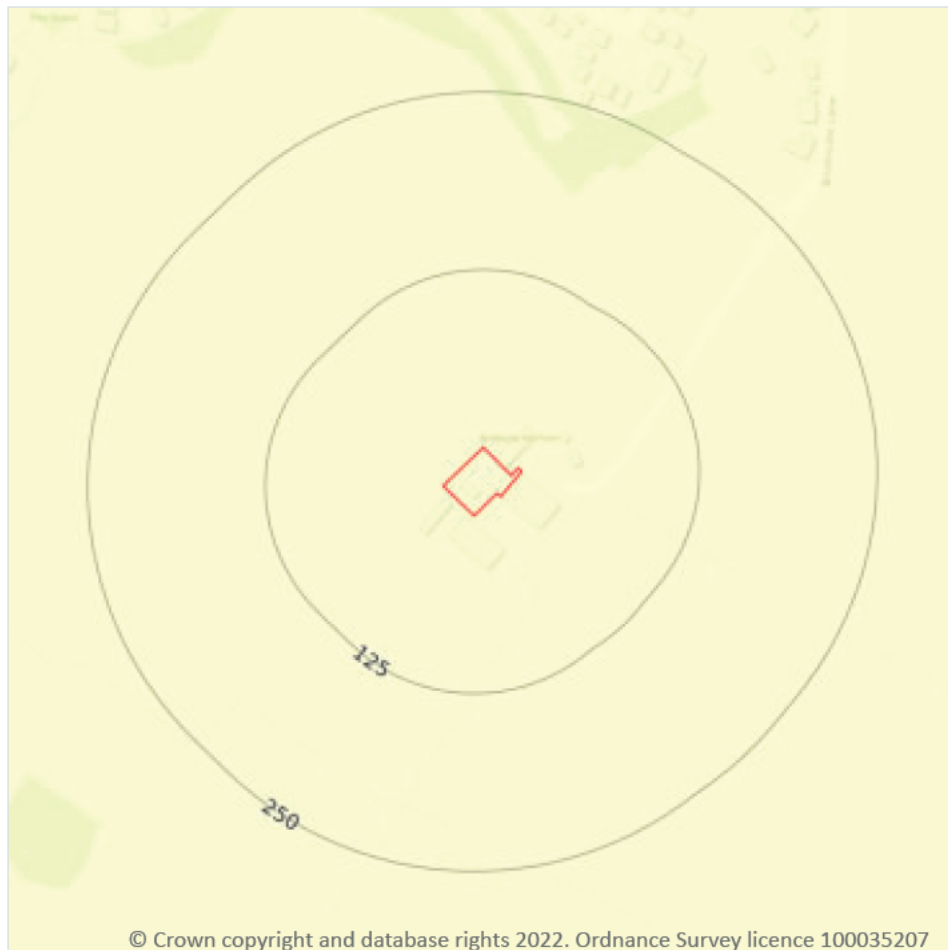
Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Location	Hazard rating	Details
25m NW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.6 Ground dissolution of soluble rocks

Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 82**

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

3

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining, ground workings and natural cavities map on [page 83](#)

ID	Location	Details	Description
B	150m N	Name: Brizlincote Hall Address: Stapenhill, SWADLINCOTE, Derbyshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
D	376m SW	Name: Brizlincote Hall Address: Stapenhill, SWADLINCOTE, Derbyshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
F	447m W	Name: Brizlincote Hall Address: Stapenhill, BURTON UPON TRENT, Staffordshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

15

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on [page 83](#)

ID	Location	Land Use	Year of mapping	Mapping scale
1	14m SW	Opencast Mining	1955	1:10560
A	84m NE	Old Clay Pits	1938	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
A	84m NE	Unspecified Pit	1900	1:10560
A	84m NE	Old Clay Pits	1924	1:10560
A	86m NE	Unspecified Ground Workings	1955	1:10560
A	88m NE	Old Clay Pits	1924	1:10560
A	89m NE	Unspecified Disused Pits	1980	1:10000
B	108m N	Unspecified Ground Workings	1955	1:10560
B	110m N	Old Clay Pits	1938	1:10560
B	110m N	Unspecified Ground Workings	1900	1:10560
B	110m N	Old Clay Pits	1924	1:10560
B	113m N	Unspecified Disused Pit	1990	1:10000
B	113m N	Unspecified Disused Pits	1980	1:10000
B	113m N	Old Clay Pits	1924	1:10560
B	116m N	Unspecified Pit	1882	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

3

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining, ground workings and natural cavities map on **page 83**

ID	Location	Land Use	Year of mapping	Mapping scale
-	783m SE	Colliery	1882	1:10560
-	875m SE	Tunnel	1938	1:10560
-	912m SE	Tunnel	1950	1:10560

This is data is sourced from Ordnance Survey/Groundsure.



18.5 Historical Mineral Planning Areas

Records within 500m

0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

1

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

Features are displayed on the Mining, ground workings and natural cavities map on **page 83**

ID	Location	Name	Commodity	Class	Likelihood
C	203m SE	Not available	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site

1

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

Location	Details
On site	In addition to being located inside an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property which may supplement this information. Please note, the plans held by JPB may also relate to non-mining records. Further details and a quote for services (if appropriate) can be obtained by emailing this report to enquiries.gs@jpb.co.uk .

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	1
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Areas which could be affected by past, current or future coal mining.

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0
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The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site	0
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

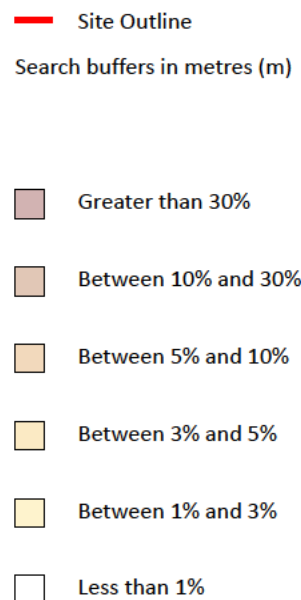
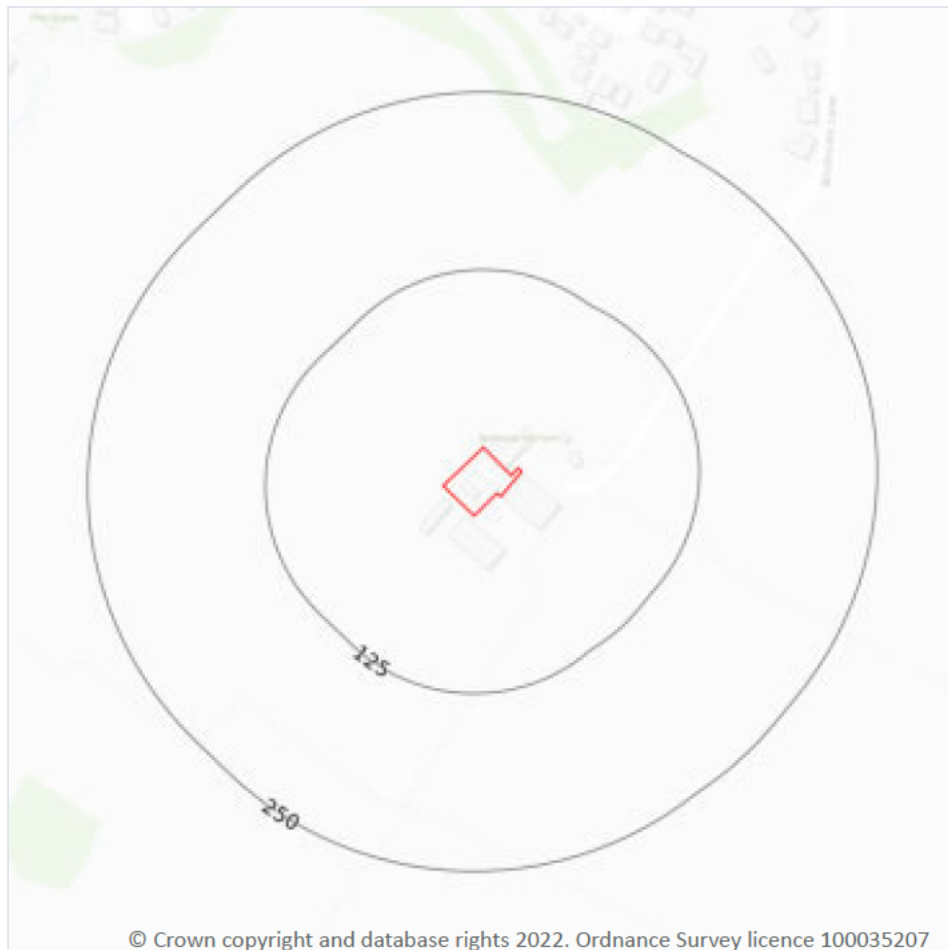
18.13 Clay mining

Records on site	0
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Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Radon



19.1 Radon

Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on [page 89](#)

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None**

This data is sourced from the British Geological Survey and Public Health England.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

5

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
24m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
27m SW	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
49m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
50m S	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.



20.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects

21.1 Underground railways (London)

Records within 250m

0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

0

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.



This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m	0
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Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m	0
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Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m	0
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The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m	0
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Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m	0
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HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.



Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference>.

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