



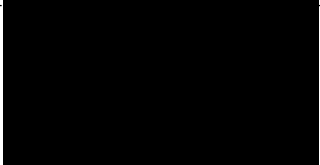
LAND AT MAIN STREET, SWADLINCOTE

PHASE I GEO-ENVIRONMENTAL ASSESSMENT
FOR
GRESLEY DEVELOPMENTS LIMITED

Project Ref:
EAL.109.20

Date:
November 2020

Prepared for:
Gresley Developments Limited
26 Little Burton West
Burton Upon Trent
Staffordshire
DE14 1PP

Prepared and Authorised by:		Phil Devitt BSc MSc FGS MRICS <i>Director</i>
Date:	November 2020	
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 Phase I Geo-Environmental Assessment. 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:	Land at Main Street, Swadlincote
CLIENT:	Gresley Developments Limited
DATE:	November 2020
REFERENCE	EAL.109.20
DEVELOPMENT PROPOSAL:	Football pitch with associated stands and buildings.
HUMAN HEALTH:	Moderate to high risk of heavy metals, PAHs, asbestos, TPH's VOC/SVOC's and PCB's associated with former site use and surrounding potentially contaminative land uses. Phase II investigation is recommended.
CONTROLLED WATERS:	Moderate to high risk of heavy metals, PAHs, TPH's VOC/SVOC's and PCB's associated with former site use. Phase II investigation is recommended.
GAS RISK:	Moderate to high risk of ground gas associated with previous site uses and surrounding historic backfilled clay and coal pits. Phase II investigation including ground gas monitoring is recommended.
RADON GAS:	No significant risk identified.
COMMENTS:	Further works - Phase II investigation is recommended.
FOUNDATIONS:	Piled foundations are likely to be required for the proposed buildings. Foundation type will need to be confirmed following the Phase II investigation.
FLOOR SLABS:	Floor slab design can be confirmed following a Phase II investigation.
COMMENTS:	Further works - Phase II investigation is recommended.

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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Site Plans
Historical OS Maps
Environmental Data Summary

1.0 INTRODUCTION

1.1 PREAMBLE

This Phase I Geo-Environmental Assessment has been produced for Gresley Developments Limited (hereafter referred to as 'the client') to provide a pre-development contamination and geotechnical assessment of the site known as *Land at Main Street, Swadlincote*. 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 Emapsite Ltd).
- British Geological Survey Online Geological Mapping.
- BSI (2015), BS 5930:2015 Code of practice for ground investigations.
- PHE-BGS (2011), Joint Indicative Atlas of Radon in Great Britain.
- Coal Mining Risk Assessment for a Proposed Football Stadium Development on Land at Main Street, Church Gresley, Derbyshire, by Ground Investigation & Piling Limited, (Ref: AJM/24875, dated June 2016).

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. (hereafter referred to as Erda), has relied upon information provided by third parties. Erda cannot accept responsibility for the reliability and authenticity of this information. Erda 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. Unauthorised third parties rely upon the information contained within this report at their own risk.

1.5 PROPOSED DEVELOPMENT

A proposed development plan is not available at the time of writing. However, it is understood that the site will be redeveloped with a football pitch with associated buildings and infrastructure. The football ground will serve as a new premises for Gresley Rovers Football Club. The existing football club ground will be redeveloped with residential dwellings under a separate planning application.

2.0 PHASE I DESK STUDY AND SITE OBSERVATIONS

2.1 GEOGRAPHICAL SETTING

The site is located approximately 1.1km to the south of Swadlincote town centre and situated within a semi-rural industrial/residential area. The site is roughly centred at national grid reference SK 3014 1840. Site location and boundary plans are presented in **Appendix A**.

2.2 SITE DESCRIPTION

The site is broadly rectangular in shape and approximately 3.83ha in size. It currently comprises brownfield scrub land with sporadic semi mature trees. The site generally slopes gently down to the east.

Residential dwellings are situated immediately to the east and west. An industrial depot is situated to the north and brownfield scrub land is located to the south.

Significant Features identified during site inspection:

Brownfield scrub land – potential historical contaminative land use.
Industrial depot to north – potential source of contamination.

2.3 HISTORICAL REVIEW: SITE DEVELOPMENT

Ordnance Survey maps have been reviewed for the years 1882 - 2020. 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	Albert Works, a brick and tile works with associated clay pit is recorded in the southern portion of the site. An Encaustic Tile Works is recorded in the northern portion of the site. This works extends further to the north off the site. A railway line is also recorded to dissect the site's north-western corner.	Residential dwellings are situated to the south and east of the site. Sewage tanks are recorded approximately 20m to the south-west. A Clay Mill is recorded approximately 150m to the north of the site. There are a number of shafts recorded in the wider area. The closest shaft is located some 150m to the east.
1901	The Encaustic Tile works is now also recorded to include a sanitary earthenware works and has expanded.	An Iron Foundry is recorded approximately 90m to the north of the site. A brick works is recorded 120m to the north. The Clay Mill recorded 150m to the north is now recorded as a 'Flint Mill'.
1923	A mineral railway serving Albert Works is recorded trending east to west and dissecting the centre of the site. An air shaft relating to Albert Works is also recorded in the southern area of the site.	Church Gresley Works is recorded 70m to the west of the site.
1959	Some of the buildings associated with Encaustic Tile Works are recorded as being 'ruins'.	The sewage tanks 20m to the south-west are no longer recorded. Church Gresley works has extended to within 50m of the western boundary. The brick works 120m to the north is no longer recorded.
1971	The Encaustic Tile Works is no longer illustrated. The Air shaft and mineral railway are no longer recorded. Tanks and a chimney stack associated with Albert Works are now	A scrap yard is illustrated approximately 50m to the north. A number of works are also recorded 50m to the north of the site. The Flint Mill and Iron Foundry are no longer illustrated to the north. Opencast

	recorded.	clay and coal workings are illustrated to the south of the site.
1976	No significant changes identified.	Church Gresley works is no longer recorded.
1990	Albert works is now recorded as being disused. No buildings are recorded to be present on site.	No significant changes identified.
2001	No significant changes identified.	A residential estate is now recorded adjacent the site's western boundary.
2020	No significant changes identified.	No significant changes identified.

Significant Features identified on OS Maps:	
On-site hazard	-Air shaft – potential indication of historic mining. -Albert Works and Encaustic Tile works and associated infrastructure and earthworks – potential sources of contamination and ground gas.
Off-site Hazard	-Surrounding clay and coal opencast extraction – potential source of ground gas. -Iron Foundry, scrap works, sewage tanks and clay works – potential sources of contamination and ground gas.

2.4 ANTICIPATED GEOLOGY

The BGS geological 1:50,000 scale data, sheet 141 – Loughborough, for this area illustrates;

- Made ground and infilled ground is recorded to be present across the whole site.
- Superficial deposits are not recorded to be present.
- A solid geology of the Pennine Middle Coal Measures Formation comprising interbedded mudstone, siltstone and sandstone is recorded beneath the site. Based on our previous experience, it is likely that the top horizon of these deposits has been weathered to a clay.

The site is not indicated to be directly affected by faulting. The closest recorded fault is located 45m to the north-west of the site and is not considered to pose a risk.

Significant Features identified from geological data:
Made ground and infilled ground – potential source of contamination and ground gas. Pennine Middle Coal Measures (likely weathered to clay at shallow depth) – potential risk of shrink/heave in conjunction with trees and hedgerows.

2.5 HYDROGEOLOGY & HYDROLOGY

2.5.1 Hydrogeology

The Pennine Middle Coal Measures are classified as a Secondary A Aquifer which are capable of supporting water supplies at a local scale, and in some cases forming an important baseflow to rivers.

There are no licensed groundwater abstraction licences within 500m of the site.

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

Significant Features identified from hydrogeological data:
Secondary A Aquifers – potential receptor.

2.5.2 Hydrology

An inland river is recorded within the southern portion of the site.

Environment Agency data suggests that the site does not lie within an indicative fluvial floodplain.

There are no licensed surface water abstraction licenses recorded within 1500m of the site.

Significant Features identified from hydrological data:
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Inland river – potential receptor.

2.6 MINING

2.6.1 Coal

The site has been the subject of a previous Coal Mining Risk Assessment undertaken by Ground Investigation & Piling Limited in June 2016.

In summary, the risk of coal mining was found to be unacceptable and the following mitigation recommendations were made;

- Rotary probe drilling investigation to identify the potential presence of shallow unrecorded workings.
- Probe drilling in the to identify the potential presence of a mine entry and adit recorded in the southern area of the site.

The above recommended works should be carried out prior to the site's redevelopment.

2.6.2 Non-Coal Extraction

Albert works is recorded to have undertaken underground fireclay extraction and, therefore, there is a high risk of clay mining beneath the property. Furthermore, there is a history of clay mining in the wider local area.

There are also a number of surface workings associated with the historic site uses and surrounding historic uses.

In addition, the Groundsure Report confirms that the site is within an area where sporadic Iron Ore mining may have occurred in the past. However, the report also confirms that any extraction will have been of restricted extent if it did occur. Therefore, the potential for difficult ground conditions are unlikely and localised at a level where they need not be considered.

No other non coal extraction is recorded within 500m of the site.

Significant Mining Risks:

Historic Surface Clay Extraction Sites – potential deep made ground (source of contamination and ground gas). Potential implication for foundation design also. Historic underground clay extraction – potential risk of subsidence from clay mining.
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2.7 POTENTIALLY CONTAMINATIVE LAND USES

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

- There are no active or historic landfill sites recorded within 500m of the site.
- There are numerous records relating potentially contaminative historical land uses within 250m of the site. The majority of these relate to the previous clay extraction sites and their associated infrastructure (e.g. railway sidings, tanks, ground workings and refuse heaps).
- There are two waste exemptions recorded 46m to the north of the site. Both records relate to Robin Hood Metals Ltd. and are for the storage of waste in a secure place and recovery of scrap metal.
- There are a number of current potentially contaminative land uses that are in close proximity to the site. The majority of these relate to an industrial estate located approximately 50m to the north/north-west. Some of the land uses include a scrap metal merchants, unspecified works, tanks and vehicle repair or servicing.
- A historic electrical substation was recorded 2m to the north-west.

- There are three discharge consents within 250m of the site. These all relate to sewage discharges from sewer storm overflow or from a nearby pumping station.
- There are no hazardous substance or IPC consents located within 500m of the site.
- There are two recorded pollution incidents recorded within 250m of the site. These relate to the oils/fuel and inorganic chemicals. Both incidents are dated to have occurred between 2001 and 2002 and had a minor impact to water only.
- There are two current petrol station sites situated 100m to the south-east and 207m to the west of the site.
- There are no historical petrol sites located within 500m of the site. However, there are seven records relating to a historic garage sites recorded between 203m and 236m to the west/south-east of the site.

Significant Features identified from Environmental Data:
Potentially contaminative historic and current land uses – potential sources of contamination and ground gas. Historic substation – potential source of PCB contamination. Historic garage site/current petrol sites – potential risk due of TPH contamination.

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 in a Radon Affected Area as less than 1% of properties are above the action level. Therefore, radon protective measures are not necessary for the proposed development.

Radon Gas Hazard:
No significant risk identified.

3.0 PHASE I CONCEPTUAL MODEL

3.1 SOURCE-PATHWAY-RECEPTOR

The conceptual model for the site considers the development proposal for a football pitch with associated buildings and infrastructure and the preceding information.

The site's former uses as Albert Brick Works and an Encaustic Tile Works are considered in respect to potential contaminative sources. In addition, historic surrounding potentially contaminative land uses including the Iron Foundry, Sewage Tanks and opencast clay and coal extraction sites are also considered.

Significant thicknesses of made ground may be present across the site due to the historic land uses. Based on all of the above, it is recommended that all shallow soils are analysed for the following potential contaminants of concern for end user;

- Heavy metals, speciated polycyclic aromatic hydrocarbons (PAHs), asbestos, total petroleum hydrocarbons (TPHs), VOC/SVOCs, PCBs and ground gas.

Pathways for the end user of the site include direct contact (dermal) with potentially contaminated soil dust; ingestion and inhalation of potentially contaminated soil dust; and inhalation of potential ground gas, vapours and fibres.

The primary receptors for the site are construction workers and end users of the site.

For the controlled waters environment the primary receptor is the Secondary A Aquifer (Pennine Middle Coal Measures) underlying the site. The inland river in the southern portion of the site is also considered to be a potential receptor.

Potential contaminants of concern for the environment include heavy metals, PAHs, TPHs, VOC/SVOCs and PCBs.

The primary pathway for controlled waters is the leaching, horizontal and vertical migration of potential contaminants through the vadose zone to the saturated zone.

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
Potentially contaminated made ground / natural strata associated with previous site uses and surrounding historic and current potentially contaminative land uses.	Indoor and outdoor inhalation of soil dust, vapours and asbestos fibres, the ingestion of, and dermal contact with, contaminated soil and soil dust.	End users.	Moderate to high risk – Phase II investigation recommended.
		Construction and Maintenance Workers.	
Historic potentially backfilled clay extraction on site and surrounding clay and coal extraction. Potential significant thicknesses of made ground from previous site uses.	Potential inhalation of ground gas (carbon dioxide and methane).	End users.	Moderate to high risk – Phase II investigation recommended.
Potentially contaminated made ground / natural strata associated with previous site uses and surrounding historic and current potentially contaminative land uses.	Water pipes.	End users.	Moderate risk – Phase II investigation recommended.

CONTROLLED WATERS			
Potentially contaminated made ground / natural strata associated with previous site uses and surrounding historic and current potentially contaminative land uses.	Leaching of contaminants and vertical migration to the groundwater. Potentially inhibited by underlying cohesive deposits.	Secondary A Aquifer (Pennine Middle Coal Measures).	Moderate risk – Phase II investigation recommended.
	Leaching of contaminants and lateral migration to surface waters.	Inland river in southern portion of site.	Moderate to high risk - Phase II investigation recommended.

4.0 RECOMMENDATIONS

A Phase II ground investigation is recommended to determine more accurately the effect of the identified hazards on the development. Initially, this should include:

- A ground investigation designed to BS5930:2015 and comprising trial pits and window sampling to confirm ground conditions and collect samples for analysis. Based on a site area of 3.83Ha and an investigation on a 50m grid 30No. exploratory holes are envisaged.
- Chemical analysis of soils followed by risk assessment so that the risk to human health and controlled waters can be determined.
- Based on the Phase I Conceptual Model (Section 3) the ground gas risk has been assessed as moderate to high. A ground gas investigation will be required to determine the ground gas regime beneath the site and allow any necessary mitigation measures to be recommended. At this stage allowance for 6 visits should be made to assess potential liabilities.
- Geotechnical soils testing of the founding strata to assess its character and suitable grades of buried concrete.
- Investigation for shallow mine workings as per recommendations in Ground Investigation & Piling Limited's Coal Mining Risk Assessment.

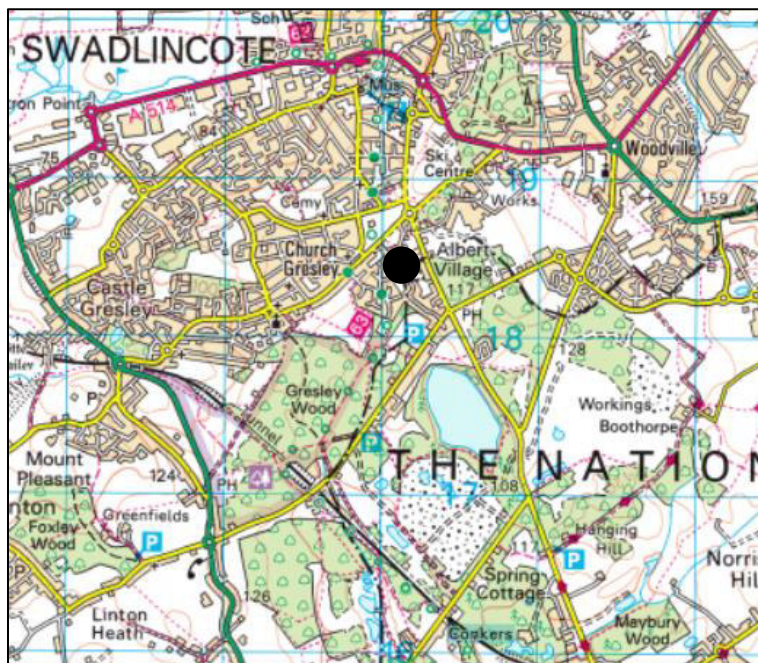
Following your review of this document, a copy of it should be submitted to the Planning Department of the Local Authority for comment and approval prior to any ground investigation works being undertaken, as this is often a condition of planning.

5.0 CONCLUSION

This Phase I Site Appraisal has shown the site is potentially suitable for the proposed development. However, a Phase II investigation will be required in order to assess and quantify the potential risk identified in this appraisal.

Appendix A

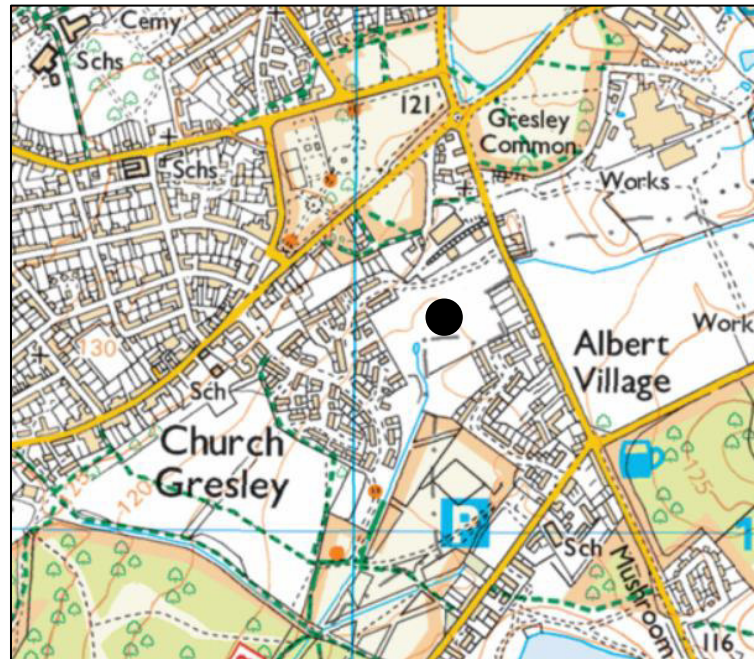




KEY:

● Approximate Site Location

DO NOT SCALE



TITLE:

Site Location Plan

PROJECT:

Main Street, Swadlincote

PROJECT No:

EAL.109.20

DATE:

11/2020

SCALE :

NTS

DRAWN :

PD

DWG No:

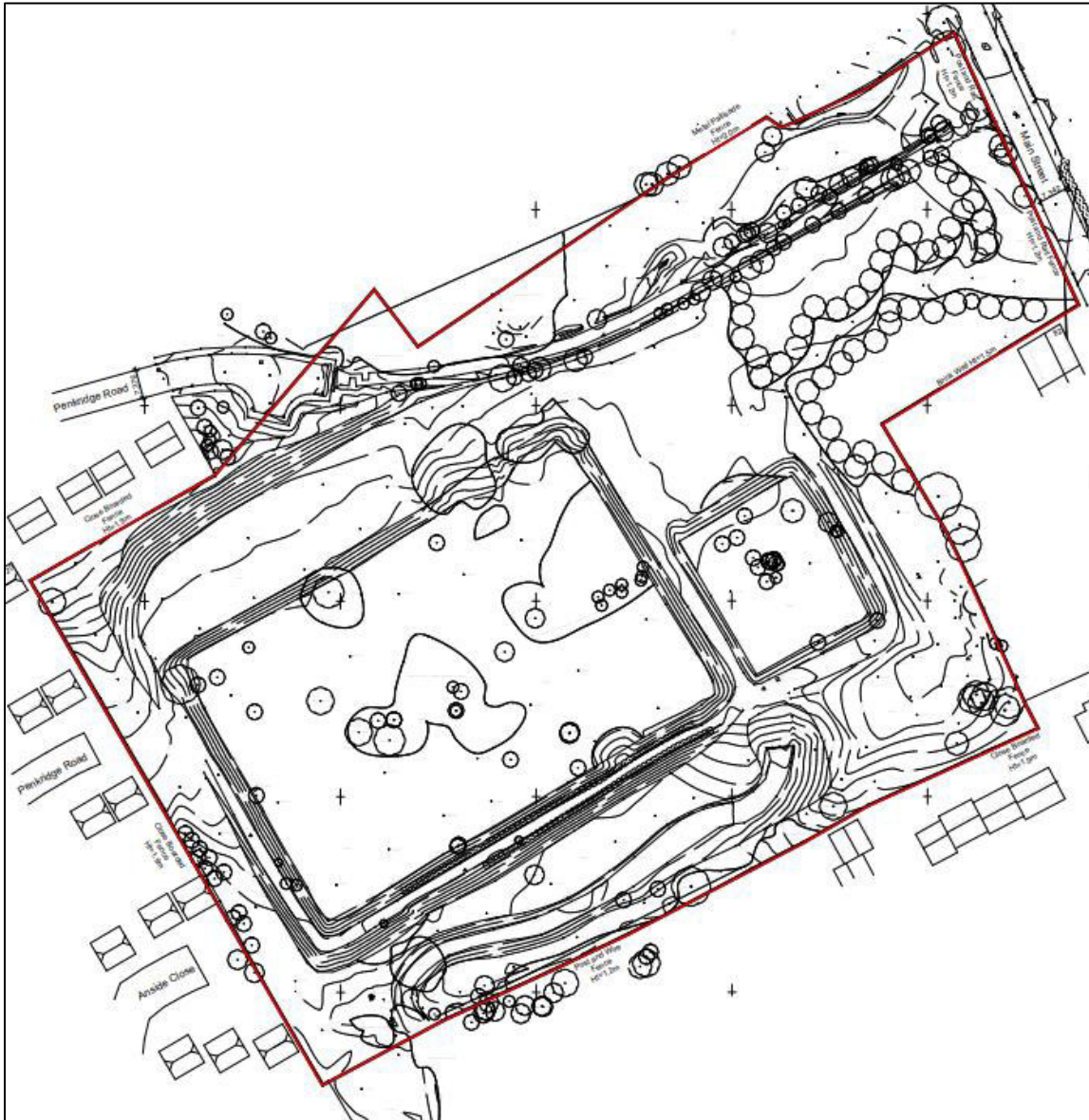
Figure 1



KEY:



Site Boundary



DO NOT SCALE



TITLE:

Site Layout

PROJECT:

Main Street, Swadlincote

PROJECT No:

EAL.109.20

DATE:

11/2020

SCALE :

NTS

DRAWN :

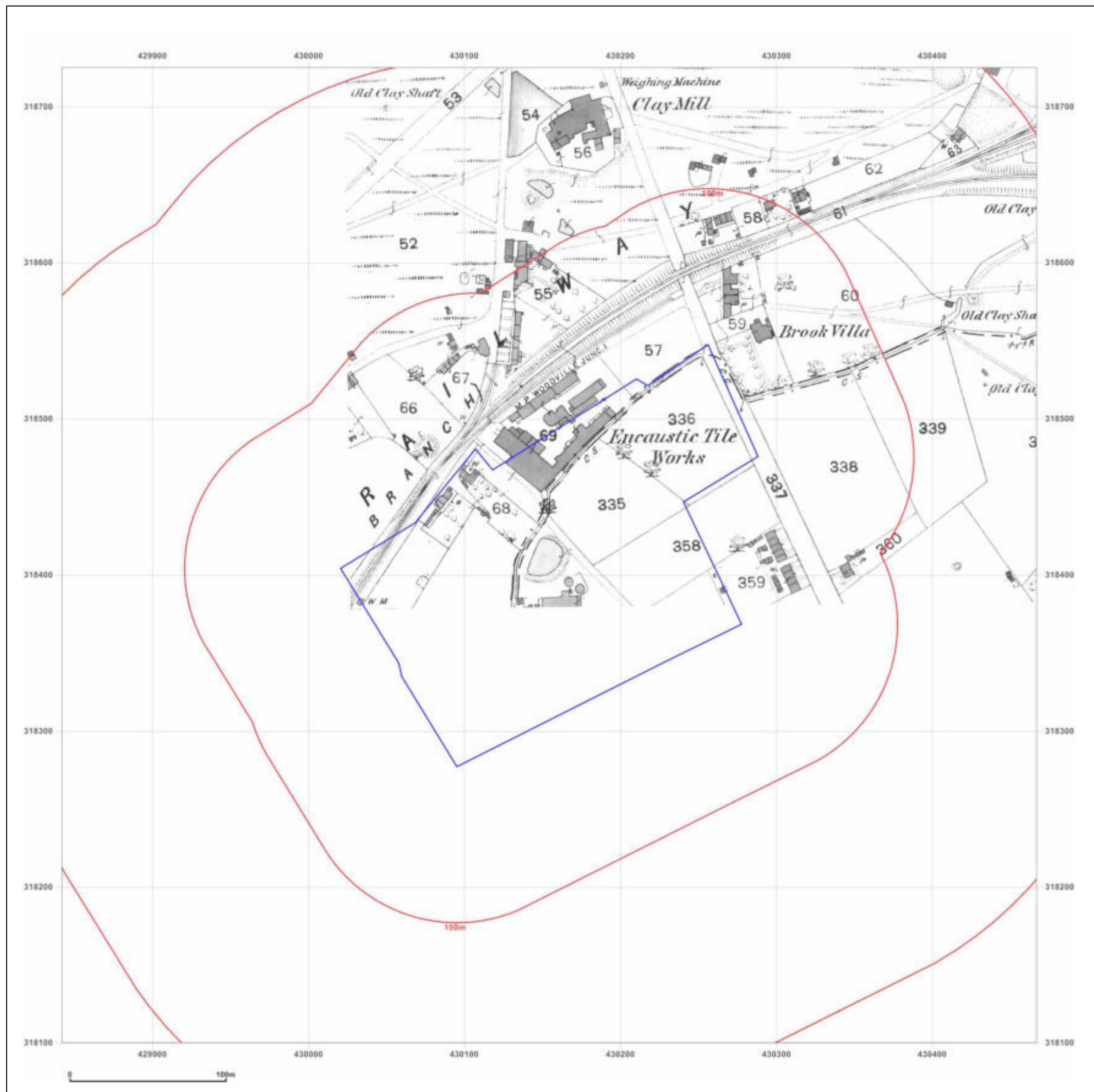
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DWG No:

Figure 2

Appendix B





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Site Details:

Main Street, Swadlincote, DE11 8EL

Client Ref: EMS_646242_857429
Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: County Series

Map date: 1883

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
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Edition N/A
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Site Details:

Main Street, Swadlincote, DE11
8EL

Client Ref: EMS_646242_857429
Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: County Series

Map date: 1882-1883

Scale: 1:2,500

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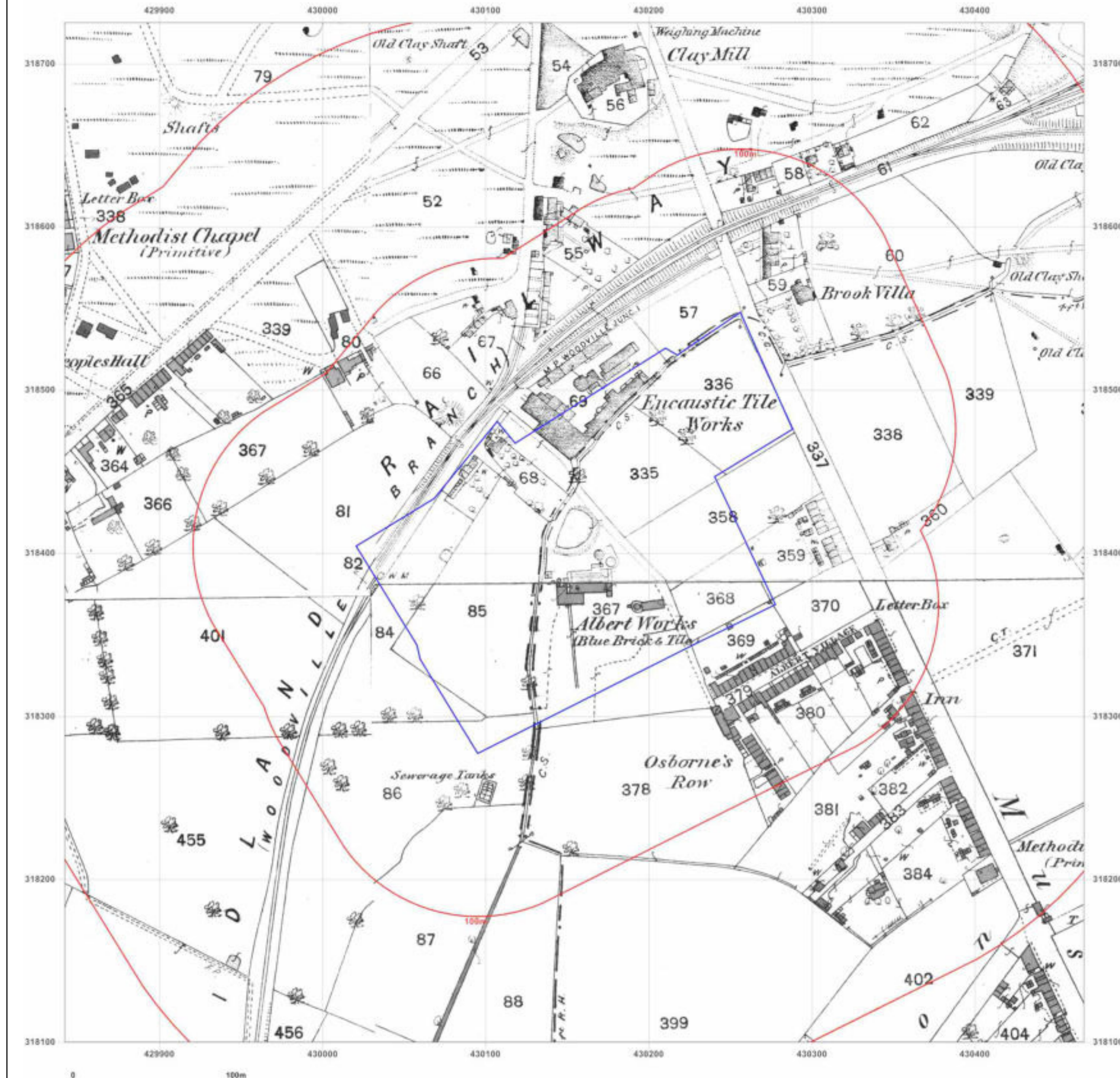


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Site Details:

Main Street, Swadlincote, DE11 8EL

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Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: County Series

Map date: 1901

Scale: 1:2,500

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 Edition 1901
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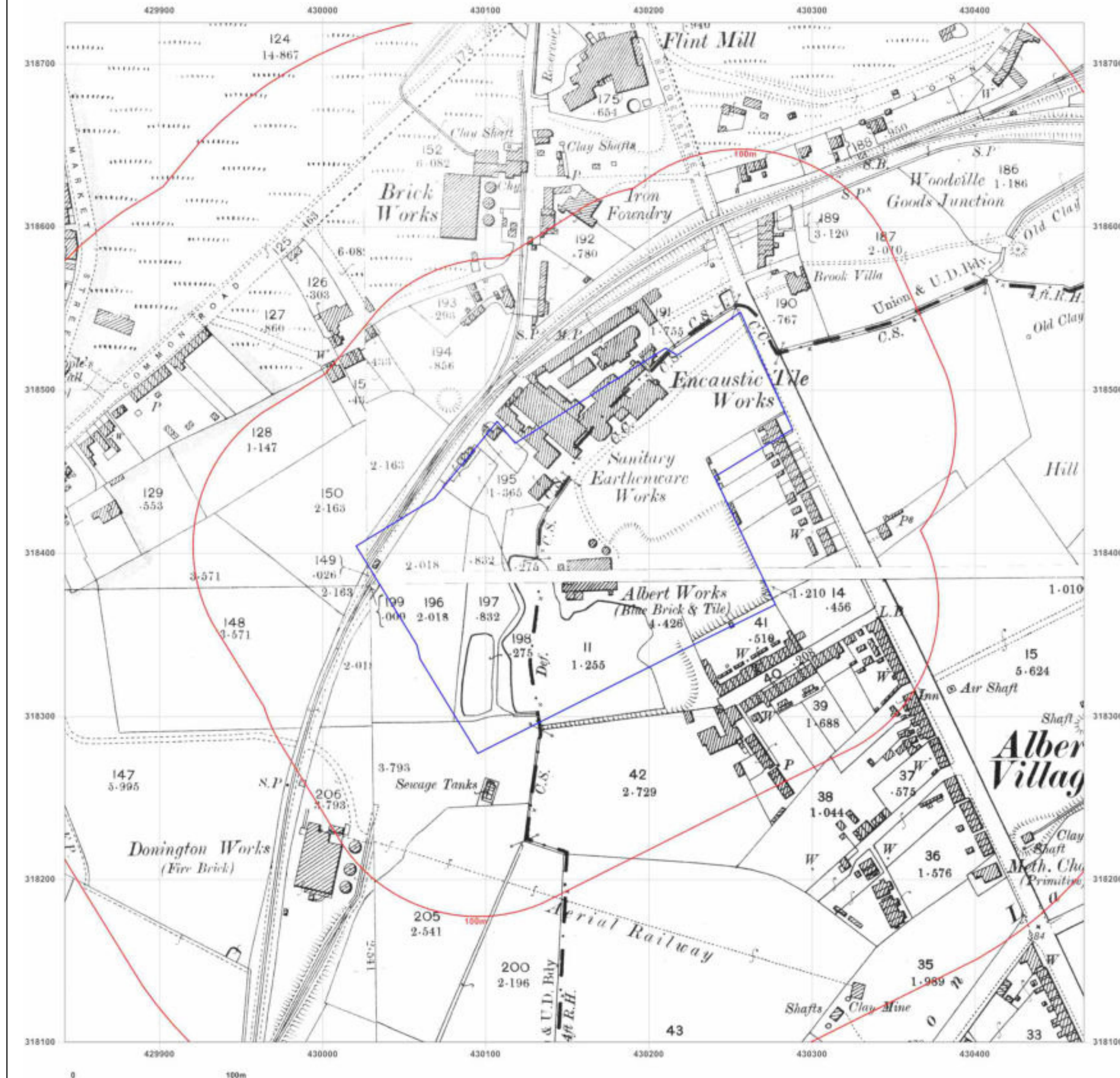


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Grid Ref: 430154, 318413

Map Name: County Series

Map date: 1901

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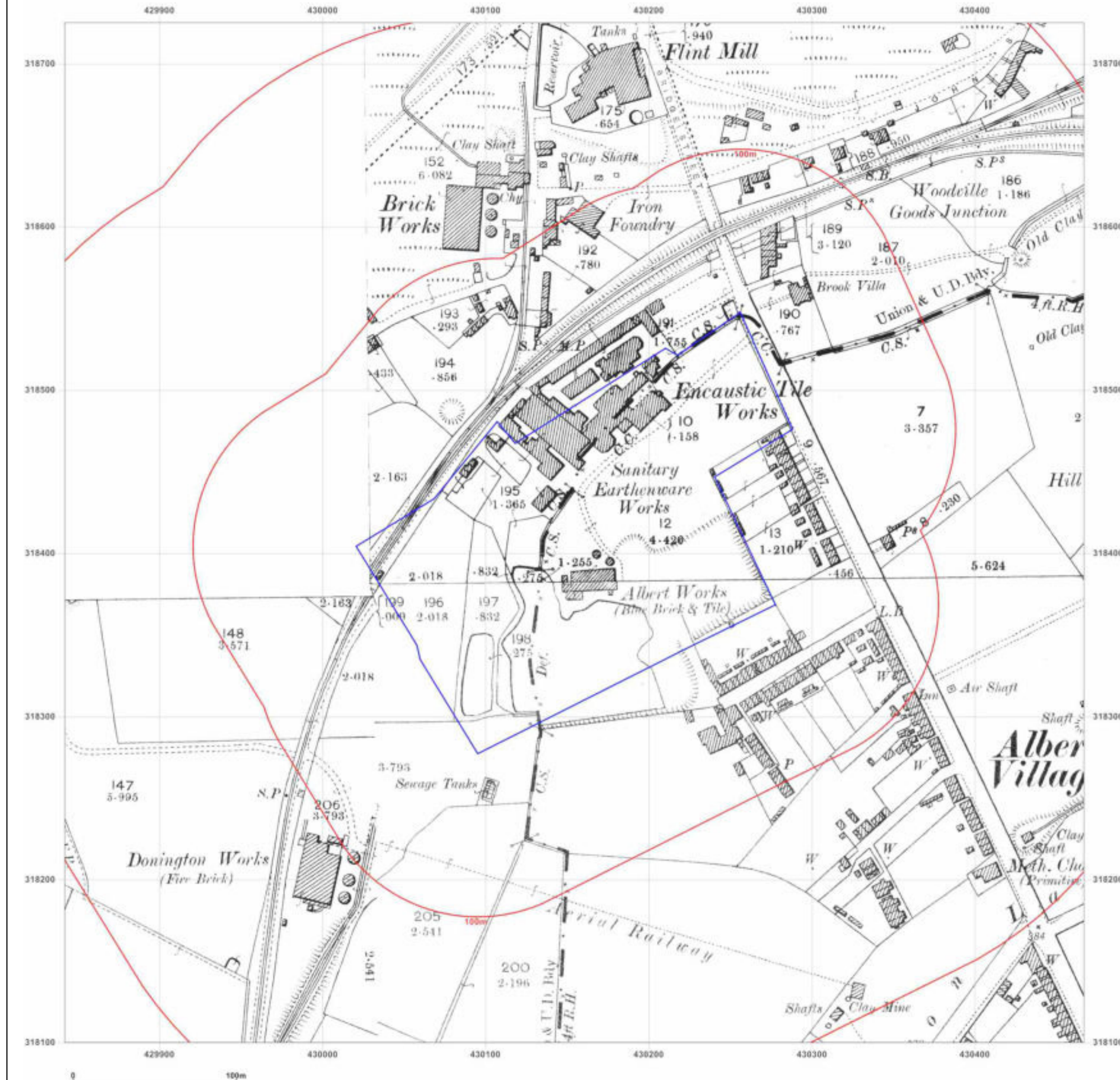


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Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: County Series

Map date: 1923

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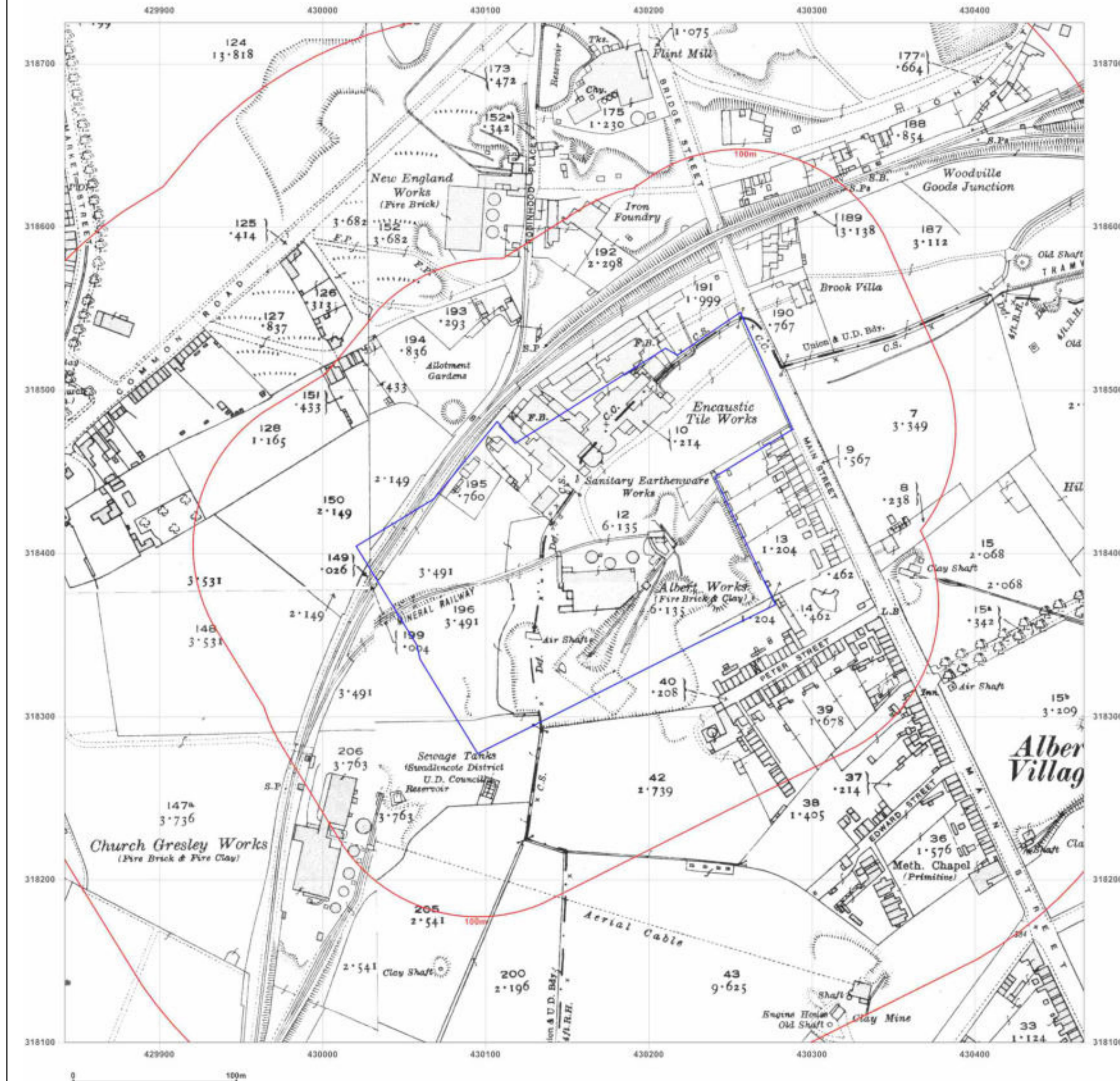


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Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: County Series

Map date: 1937

Scale: 1:2,500

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 Revised 1937
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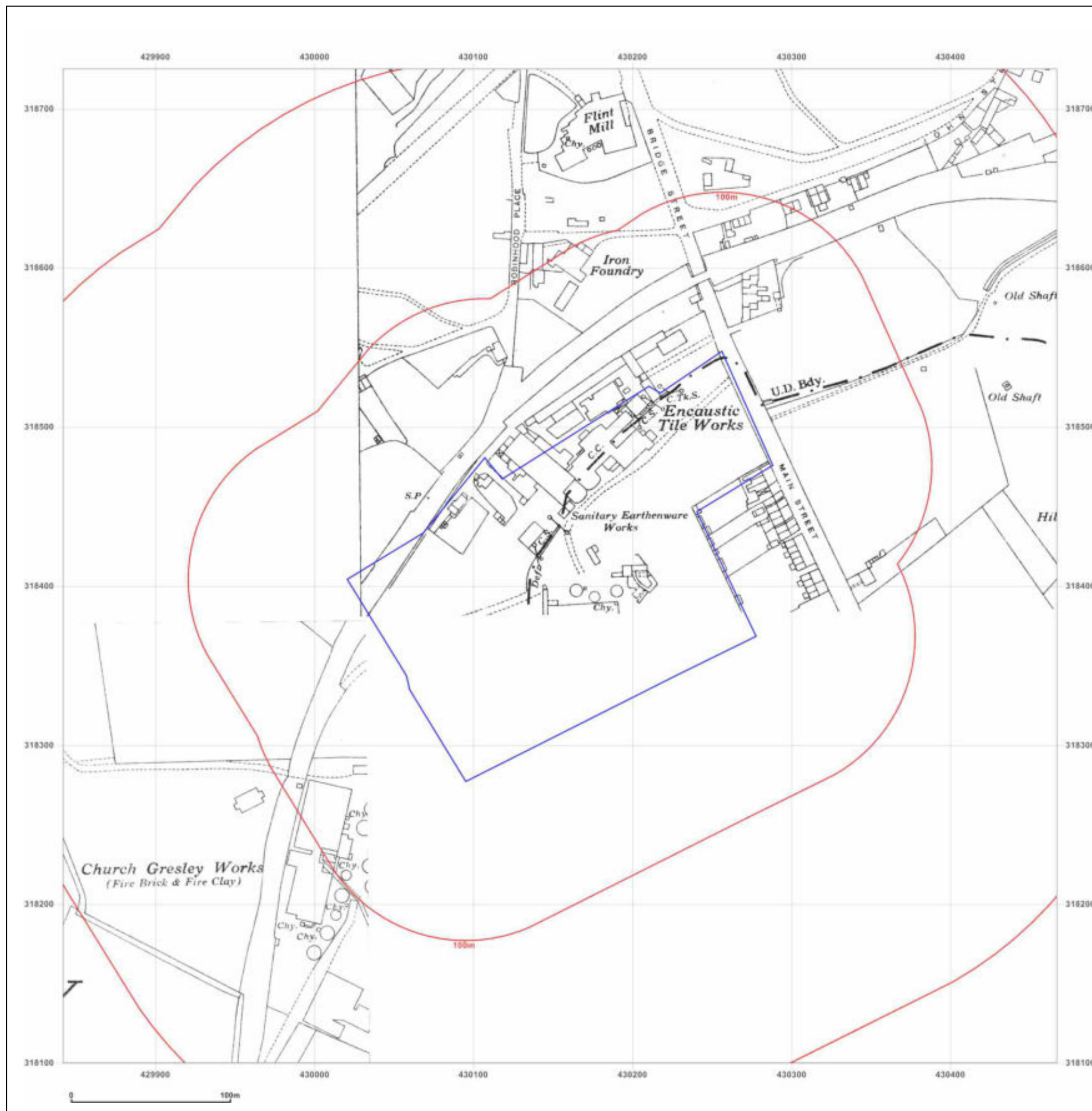


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Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: National Grid

Map date: 1959-1960

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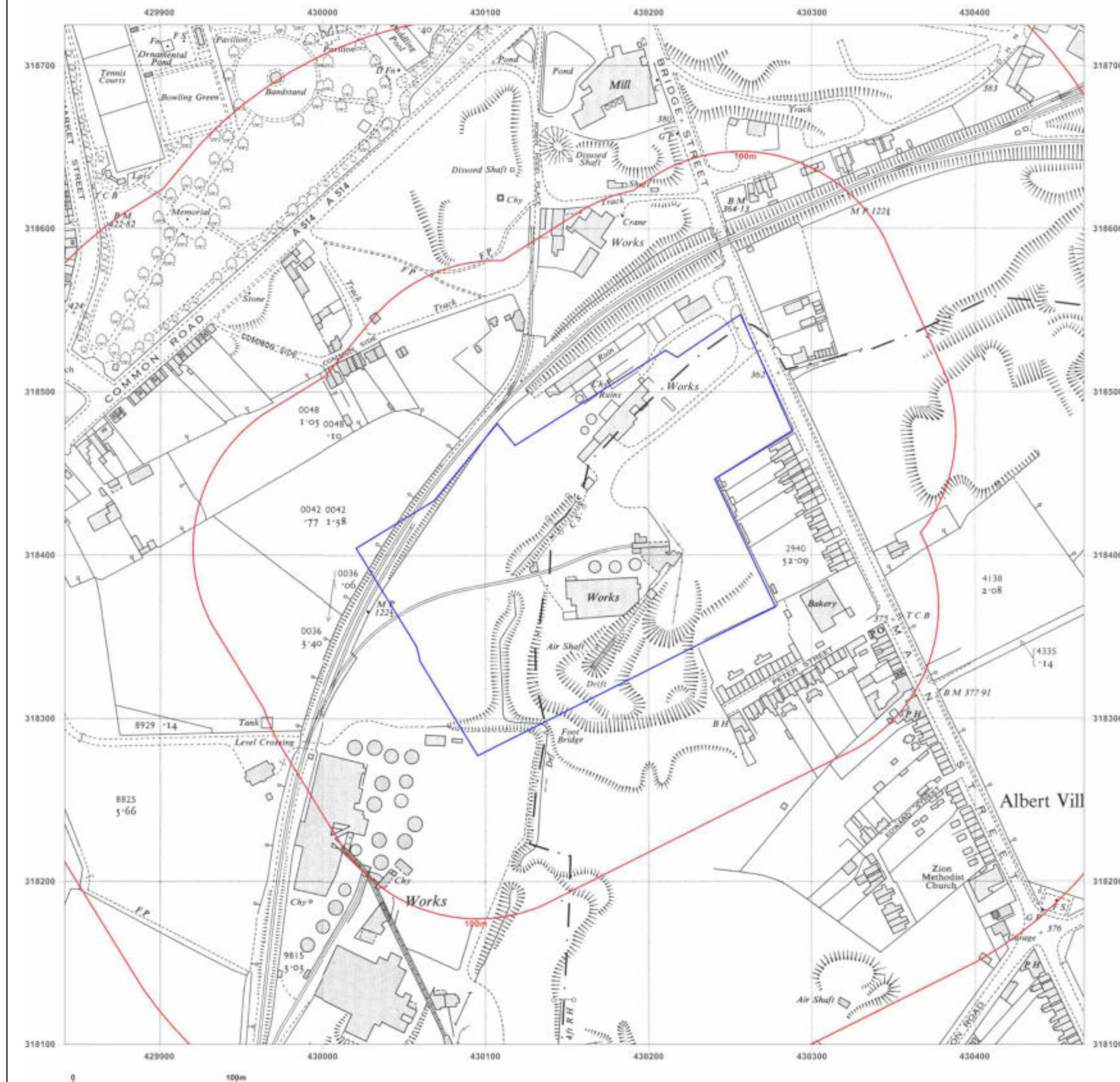


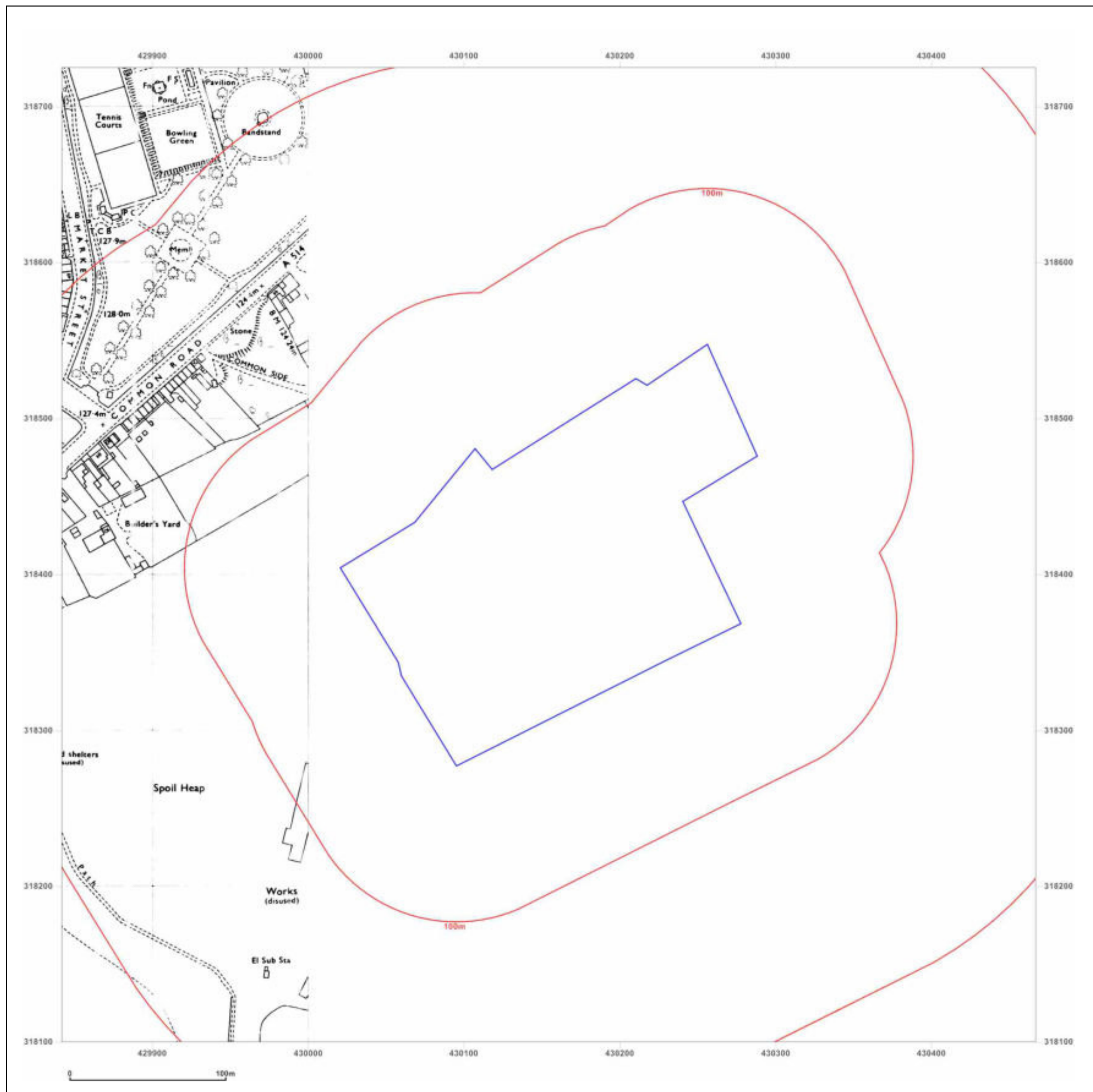
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Client Ref: EMS_646242_857429
Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: National Grid

Map date: 1972

Scale: 1:2,500

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Report Ref: EMS-646242_857429
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Map Name: National Grid

Map date: 1971-1974

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Surveyed 1974
Revised 1974
Edition N/A
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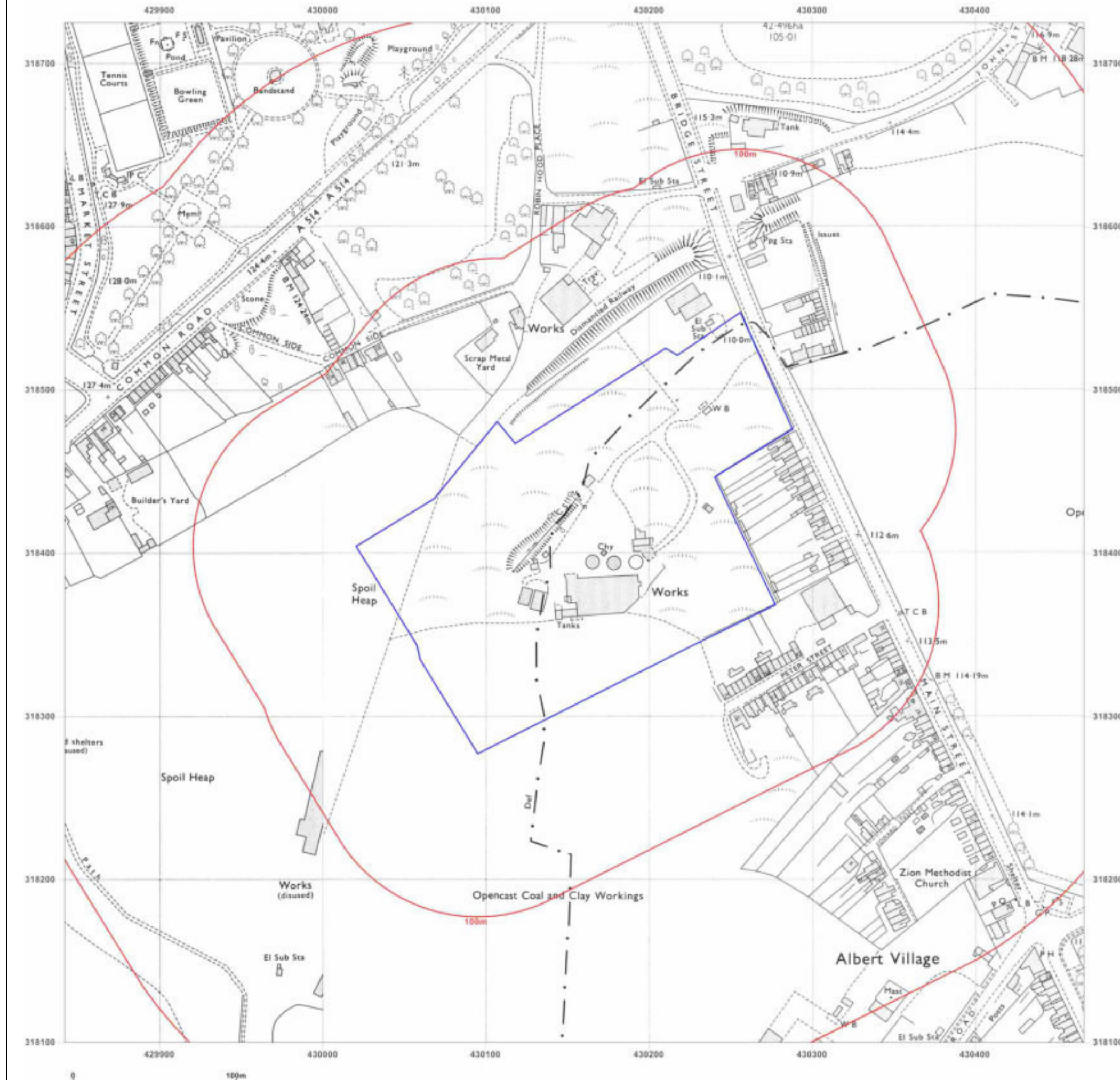


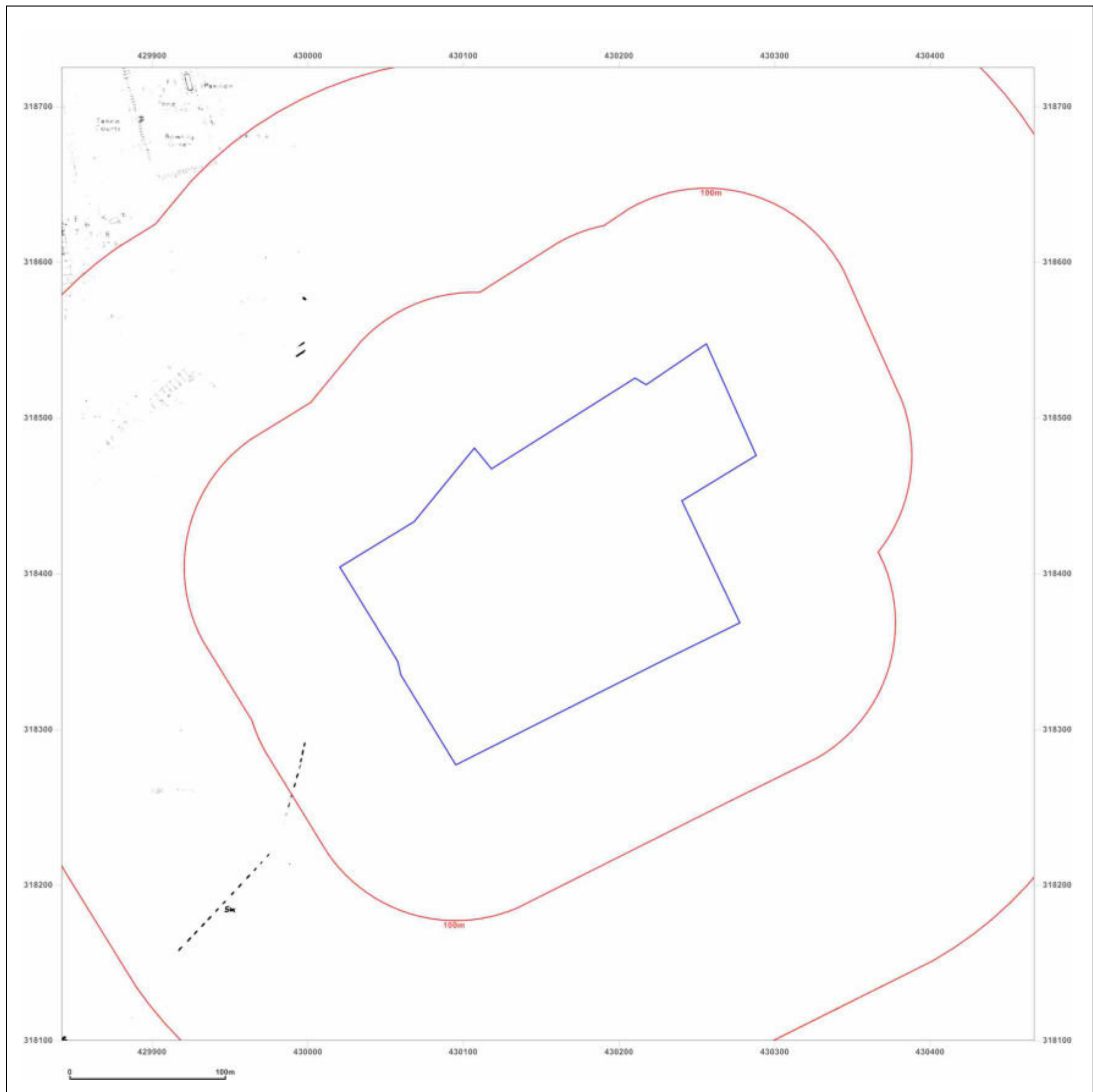
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Site Details:

Main Street, Swadlincote, DE11 8EL

Client Ref: EMS_646242_857429
Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: National Grid

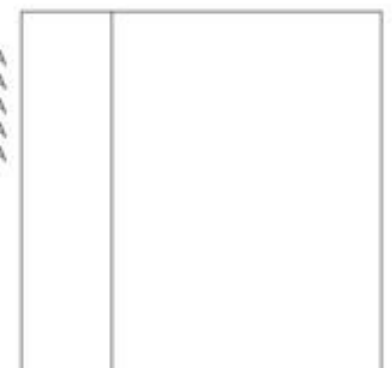
Map date: 1974

Scale: 1:2,500

Printed at: 1:2,500



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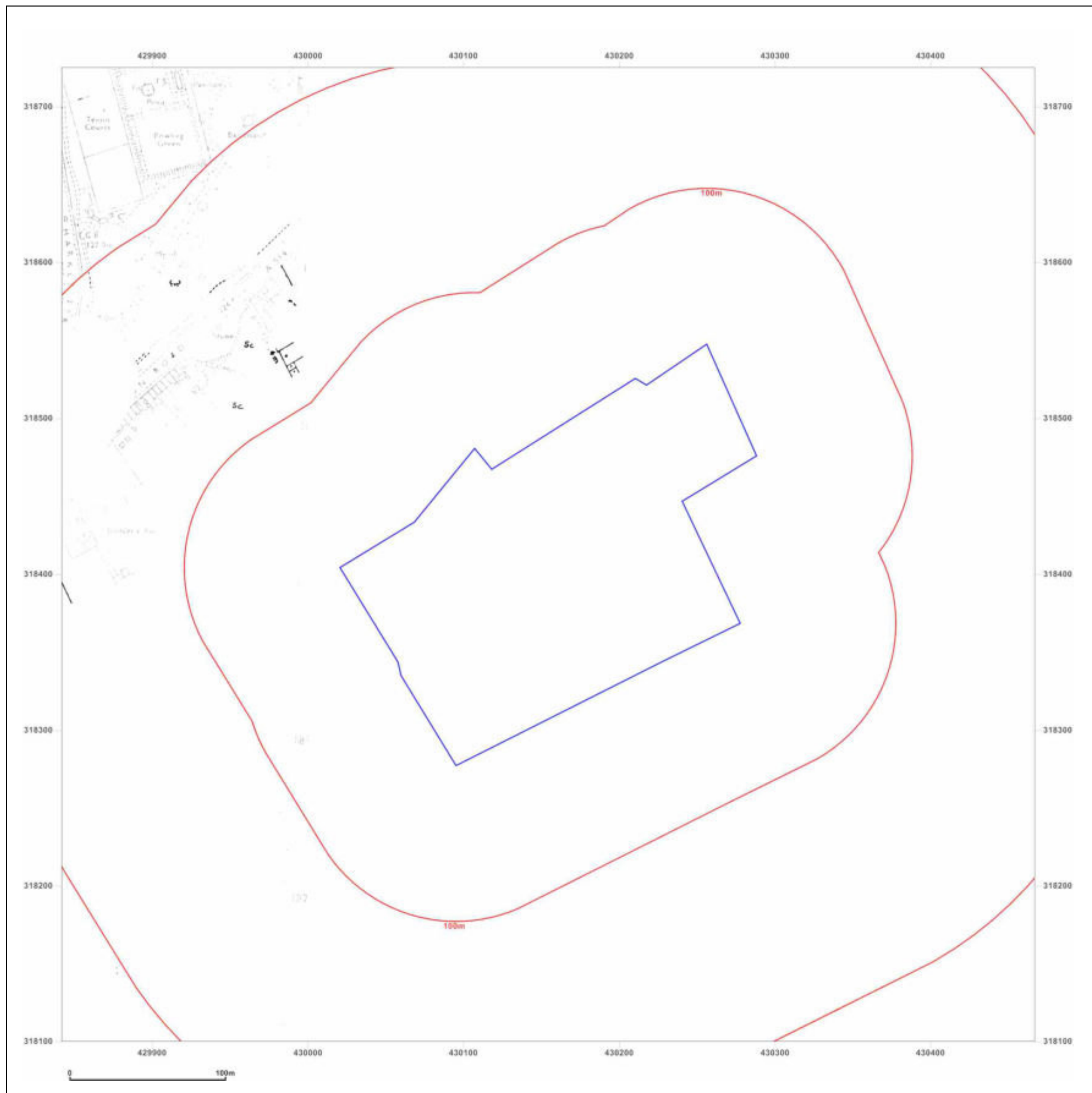


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Site Details:

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8EL

Client Ref: EMS_646242_857429
Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: National Grid

Map date: 1980

Scale: 1:2,500

Printed at: 1:2,500



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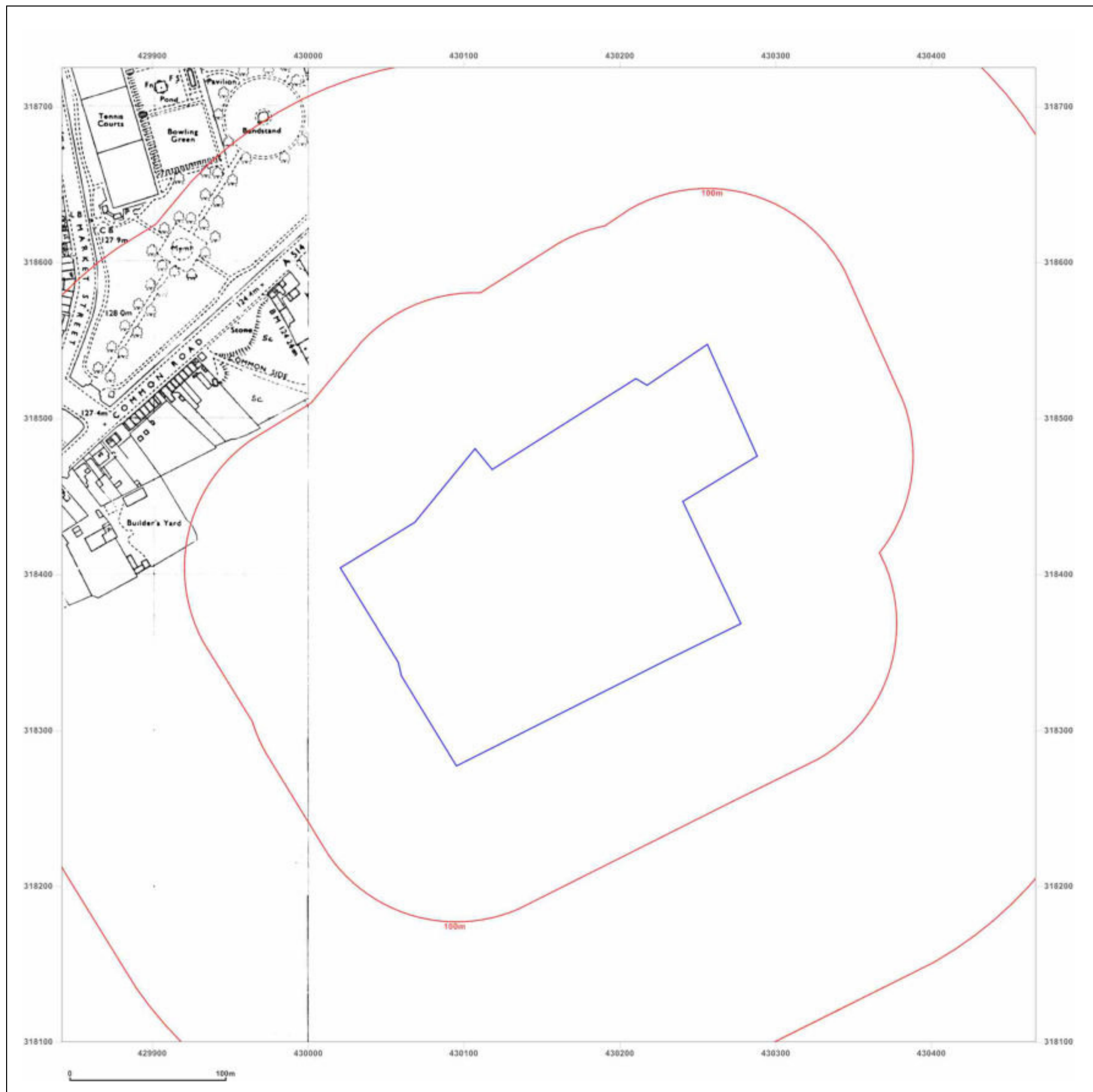


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Client Ref: EMS_646242_857429
Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: National Grid

Map date: 1980

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
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Site Details:

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Client Ref: EMS_646242_857429
Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: National Grid

Map date: 1978-1981

Scale: 1:2,500

Printed at: 1:2,500



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 Edition N/A
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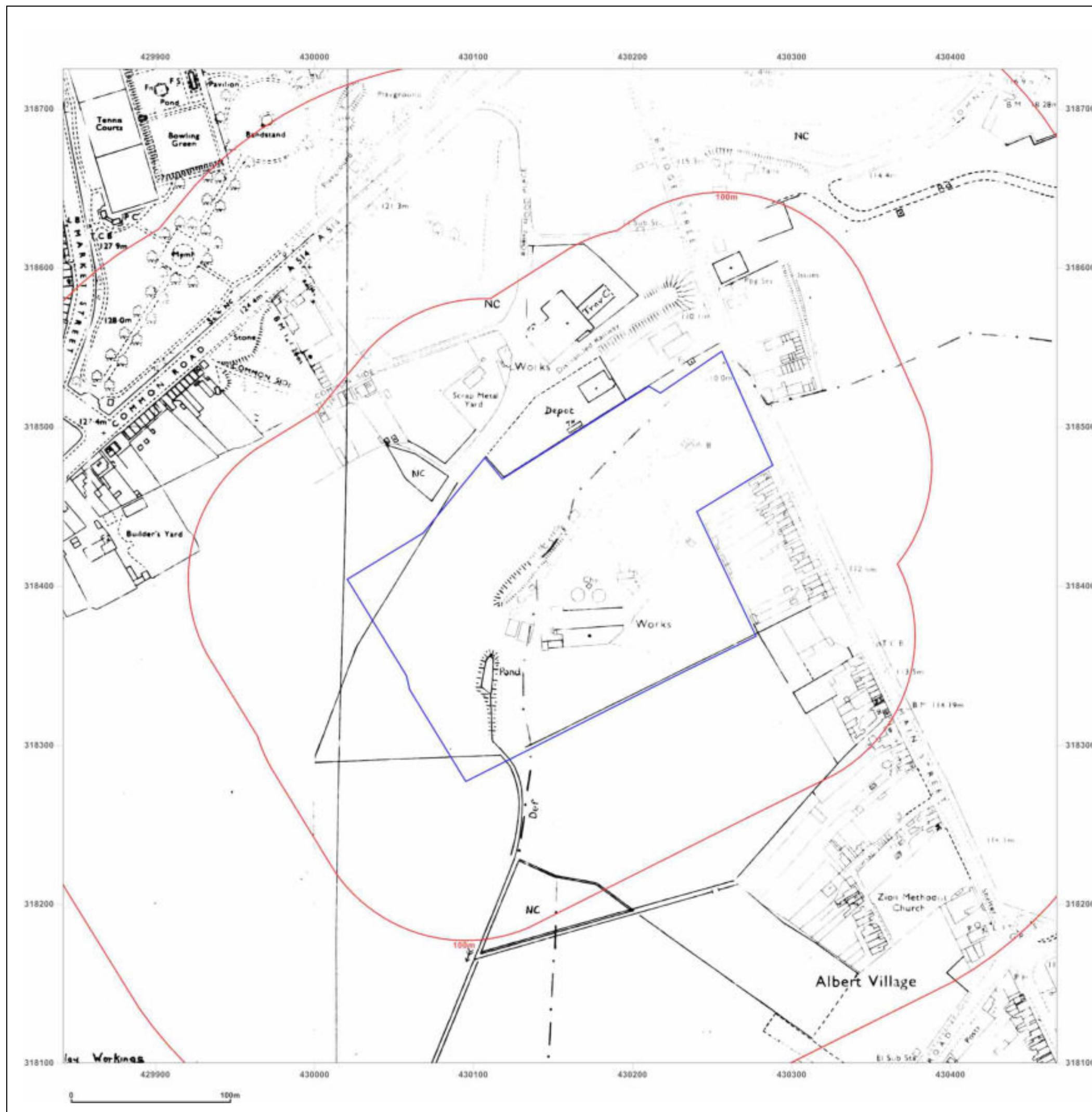


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Site Details:

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Client Ref: EMS_646242_857429

Report Ref: EMS-646242_857429

Grid Ref: 430154, 318413

Map Name: National Grid

Map date: 1985-1986

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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Revised 1984
Edition N/A
Copyright 1985
Levelled 1983

Surveyed 1984
Revised 1984
Edition N/A
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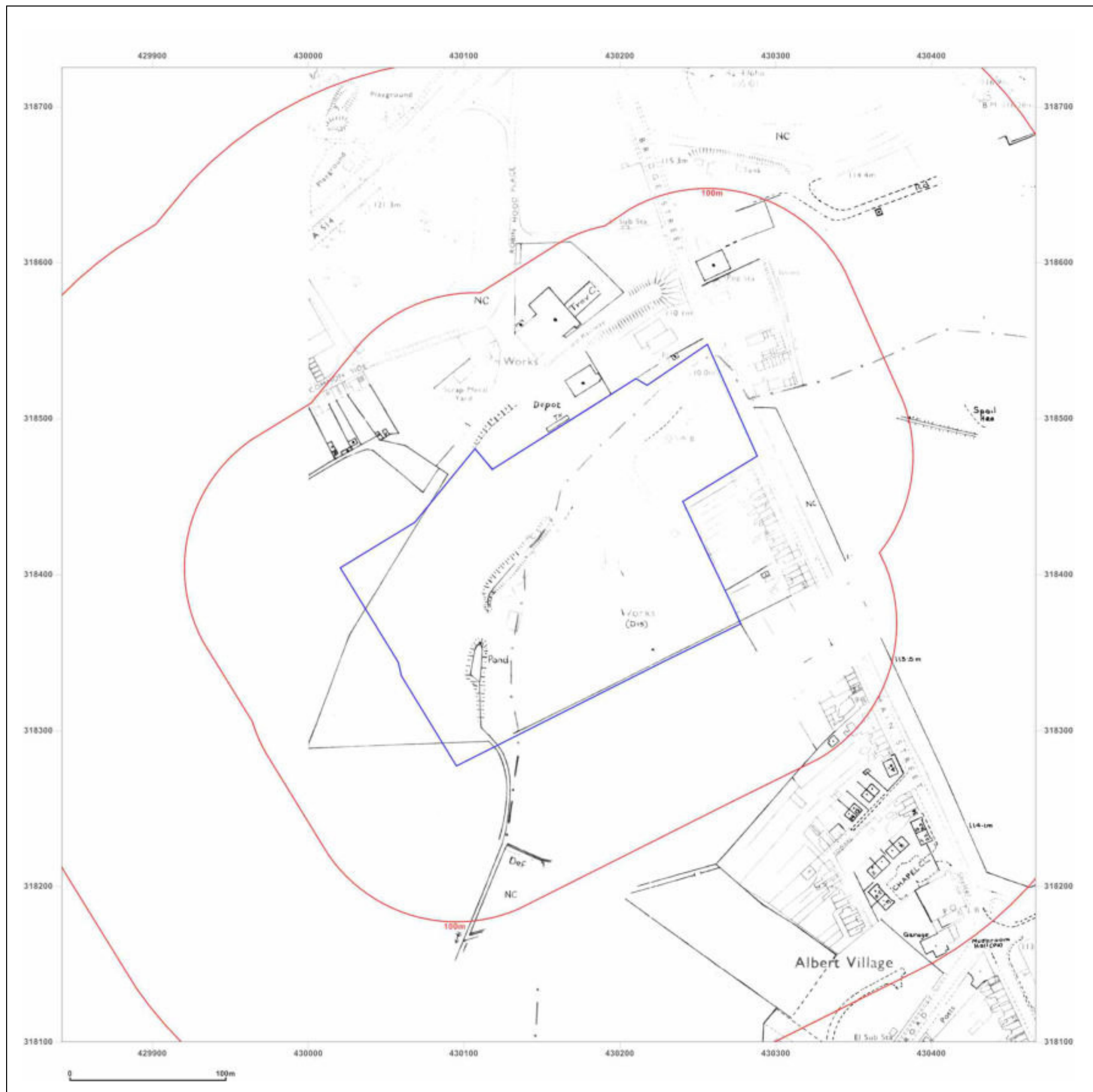
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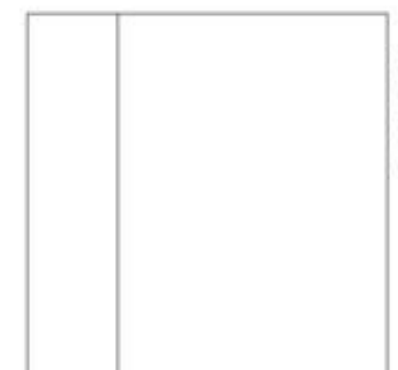
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Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: National Grid

Map date: 1990

Scale: 1:2,500

Printed at: 1:2,500



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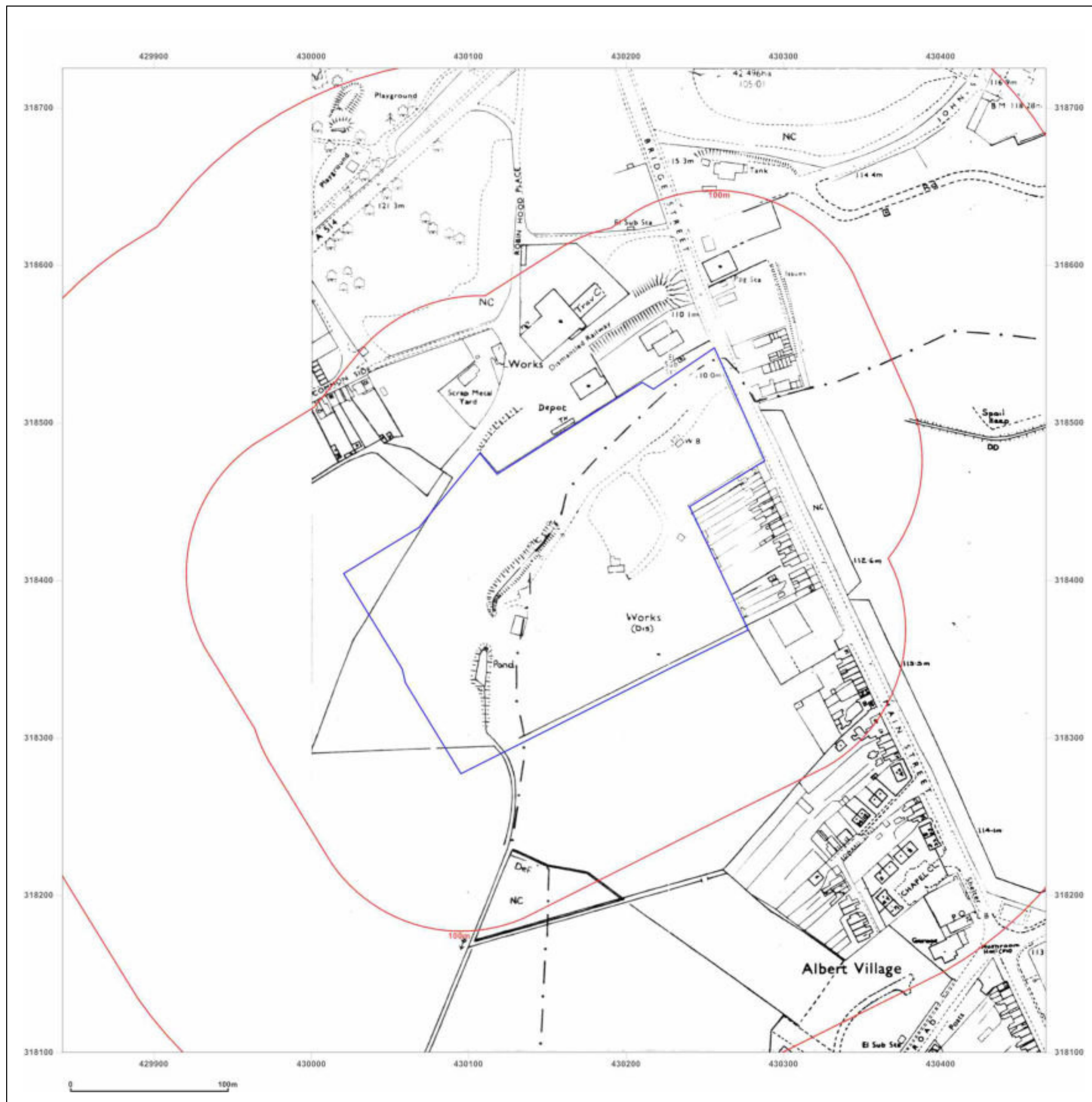


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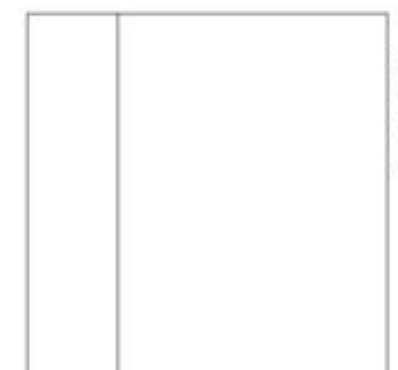
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Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: National Grid

Map date: 1990

Scale: 1:2,500

Printed at: 1:2,500



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Site Details:

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8EL

Client Ref: EMS_646242_857429
Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



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

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Client Ref: EMS_646242_857429
Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: National Grid

Map date: 1995

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1995
 Levelled N/A

Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1995
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Site Details:

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Client Ref: EMS_646242_857429
Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: National Grid

Map date: 1995

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1995
 Revised 1995
 Edition N/A
 Copyright 1995
 Levelled N/A

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 Revised N/A
 Edition N/A
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 Levelled N/A

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Client Ref: EMS_646242_857429
Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: National Grid

Map date: 1995

Scale: 1:1,250

Printed at: 1:2,000



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Client Ref: EMS_646242_857429
Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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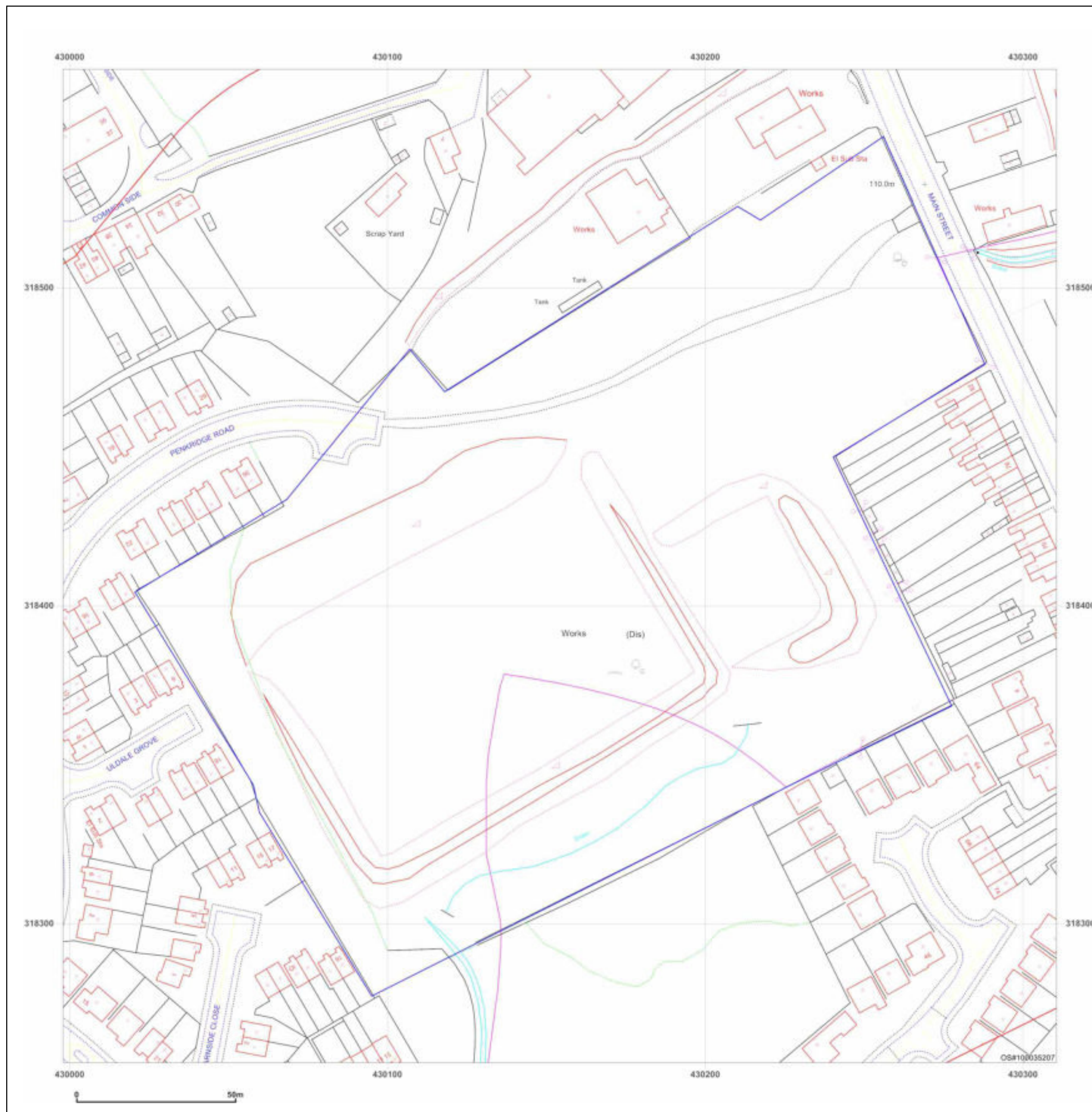


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Site Details:

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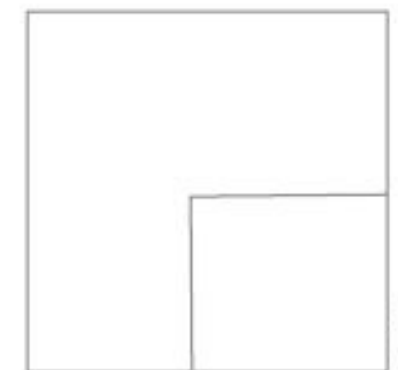
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Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

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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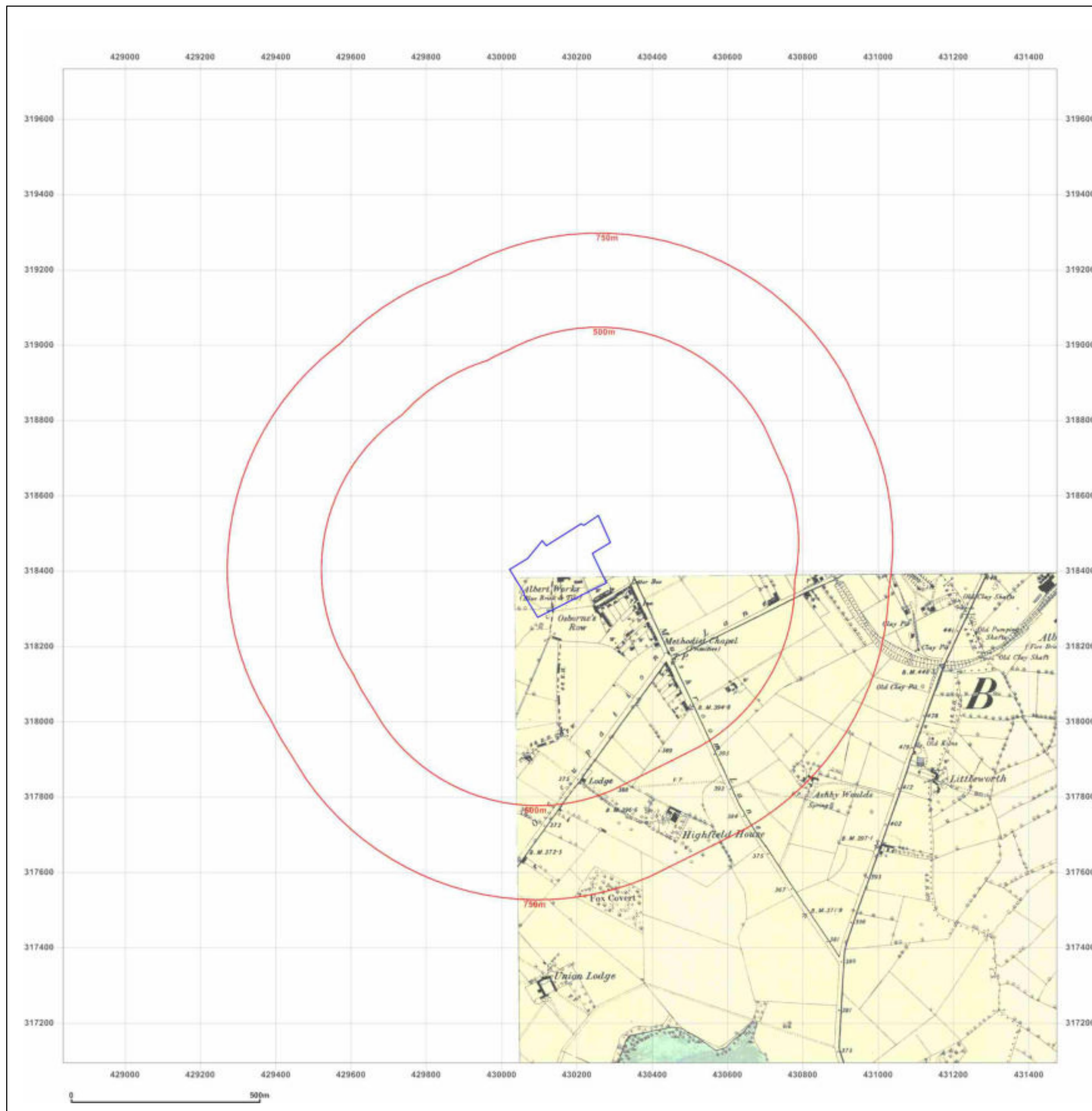


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Site Details:

Main Street, Swadlincote, DE11 8EL

Client Ref: EMS_646242_857429
Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: County Series

Map date: 1882-1885

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1882
Revised 1882
Edition N/A
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Revised 1882
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Edition N/A
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Site Details:

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Client Ref: EMS_646242_857429
Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: County Series

Map date: 1900

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1900
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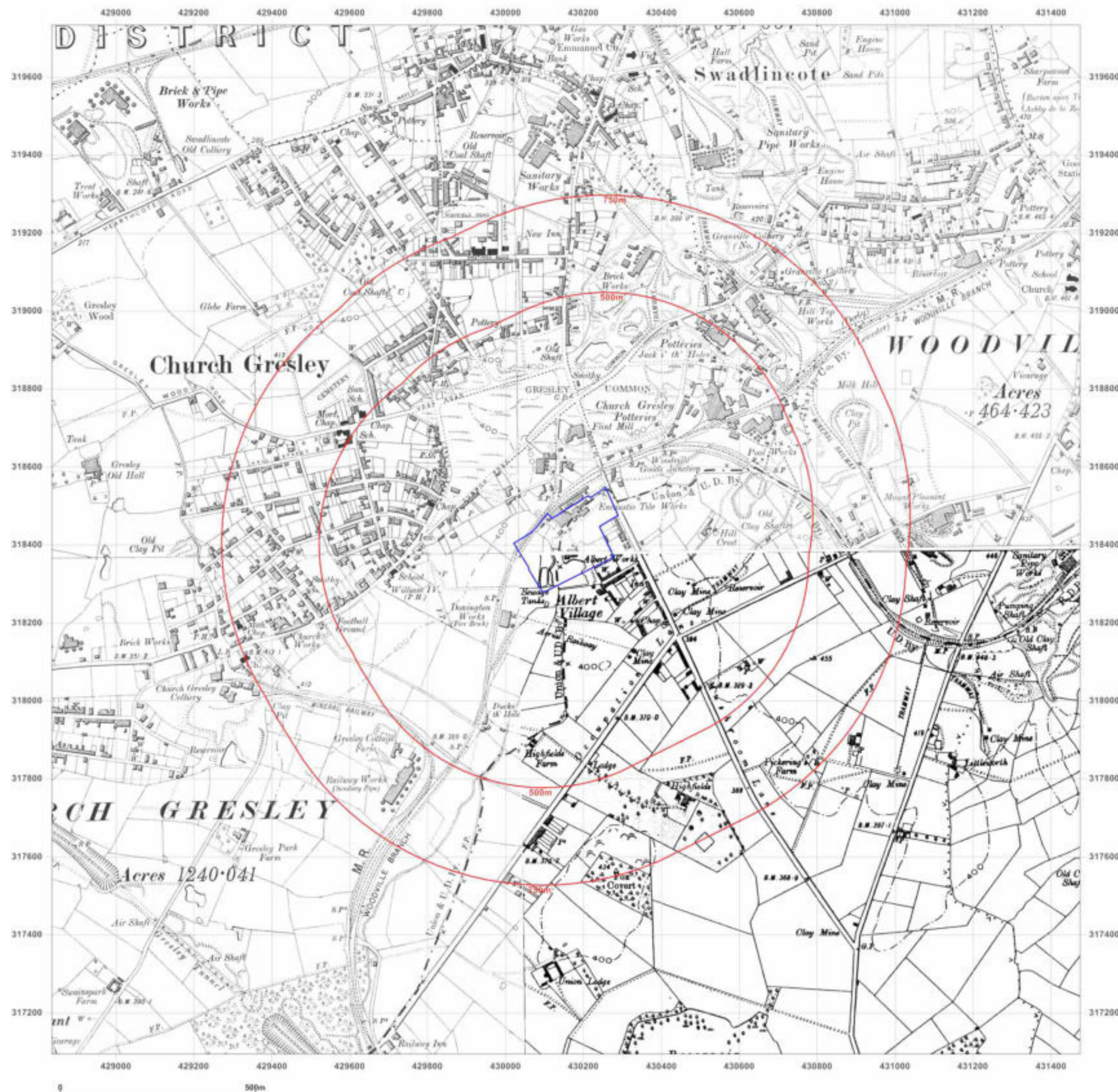


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Client Ref: EMS_646242_857429
Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: County Series

Map date: 1900-1902

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1900
Edition 1902
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Revised 1900
Edition 1902
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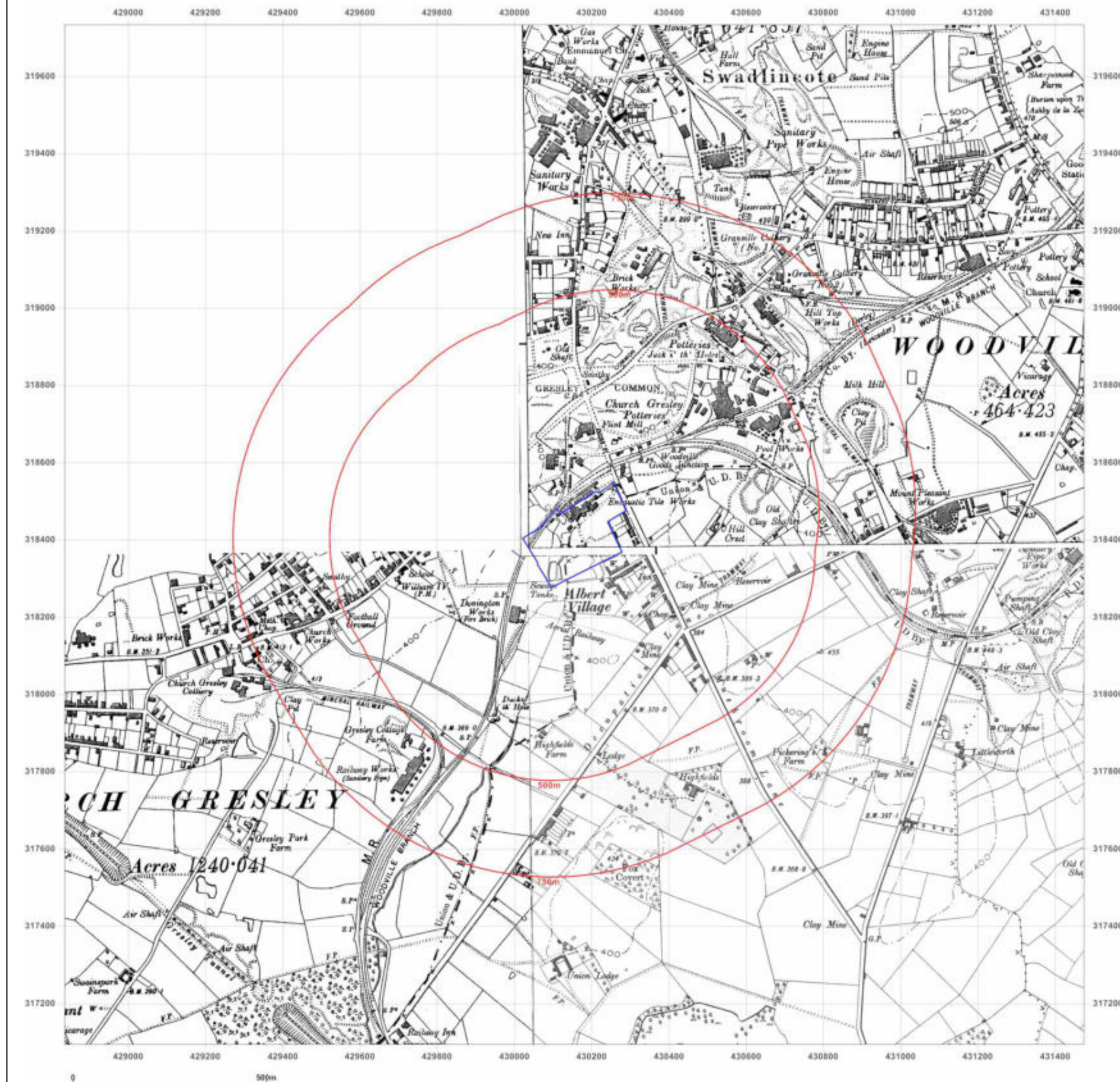


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Client Ref: EMS_646242_857429
Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: County Series

Map date: 1925

Scale: 1:10,560

Printed at: 1:10,560



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Edition 1925
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Levelled N/A

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Revised N/A
Edition 1925
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Surveyed 1881
Revised 1925
Edition N/A
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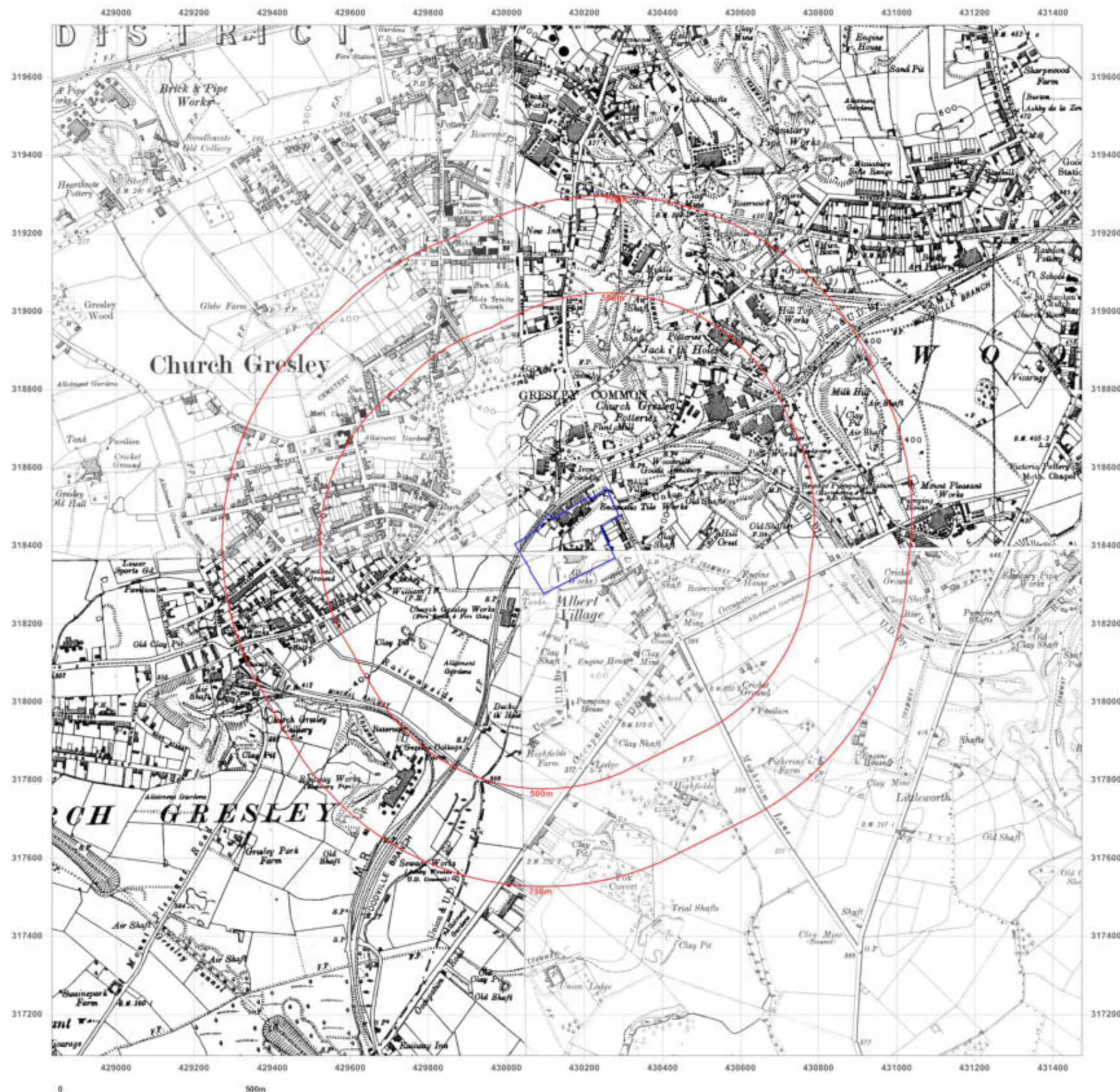


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Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: County Series

Map date: 1925

Scale: 1:10,560

Printed at: 1:10,560



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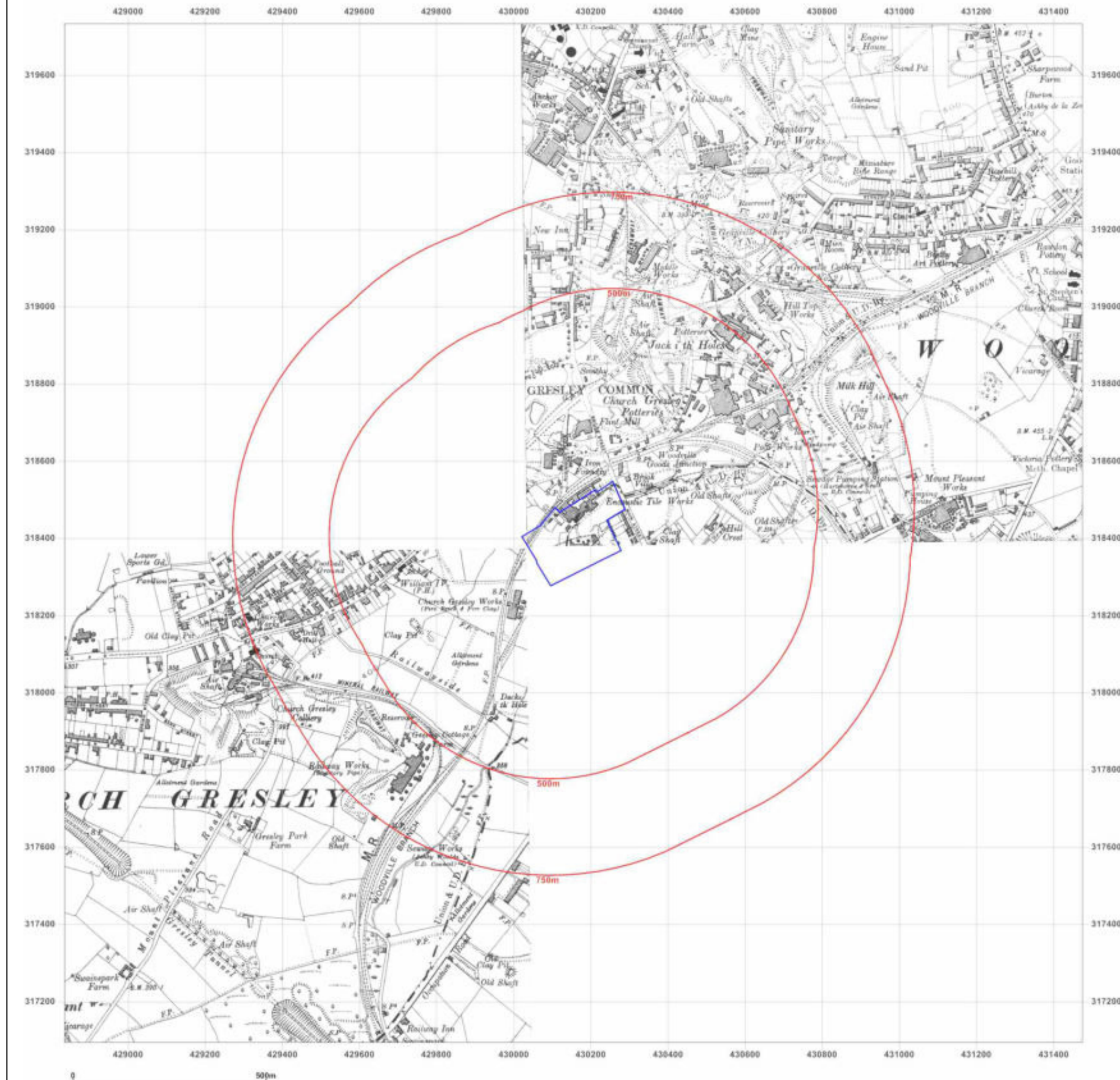


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Client Ref: EMS_646242_857429

Report Ref: EMS-646242_857429

Grid Ref: 430154, 318413

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



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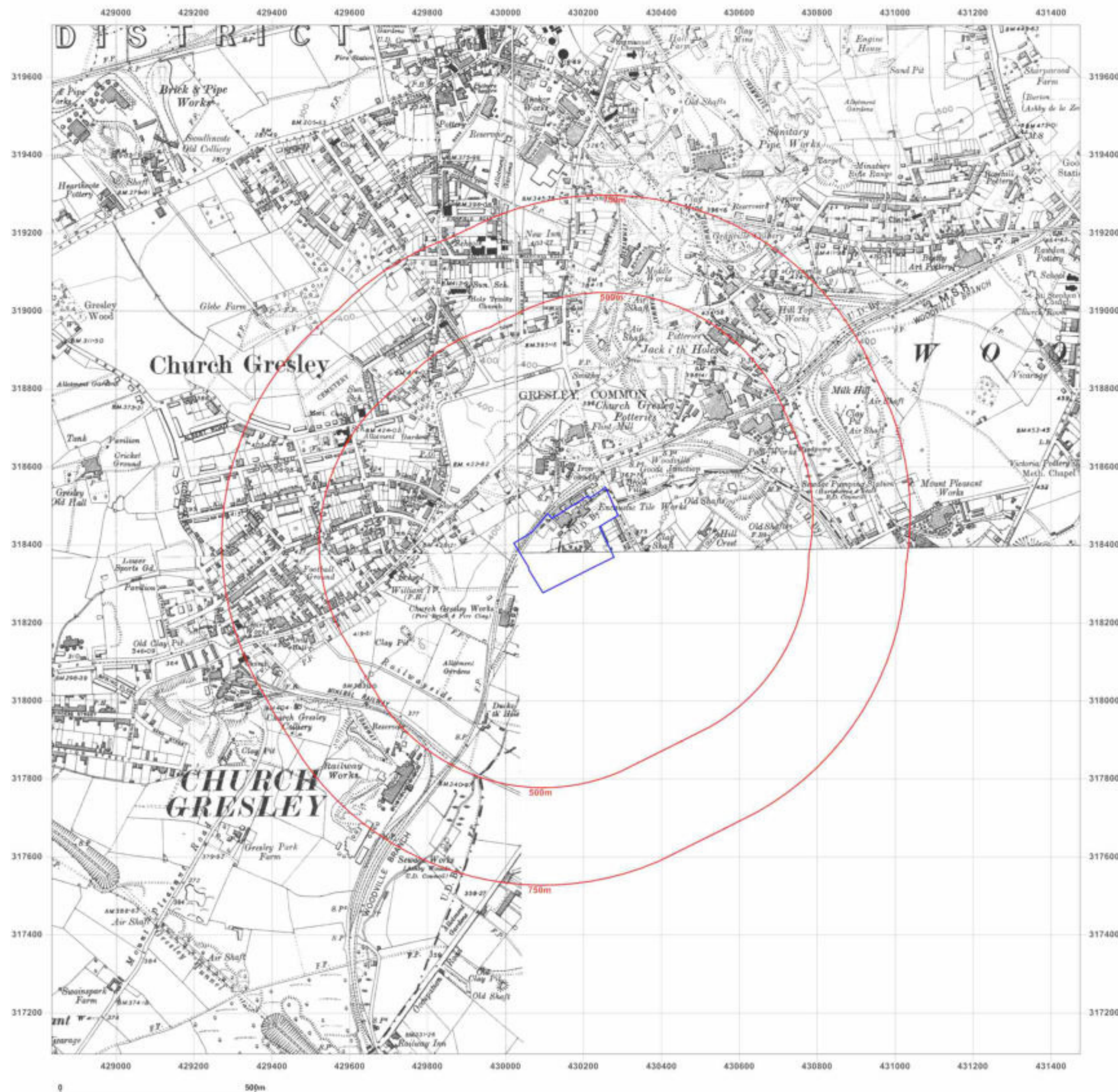


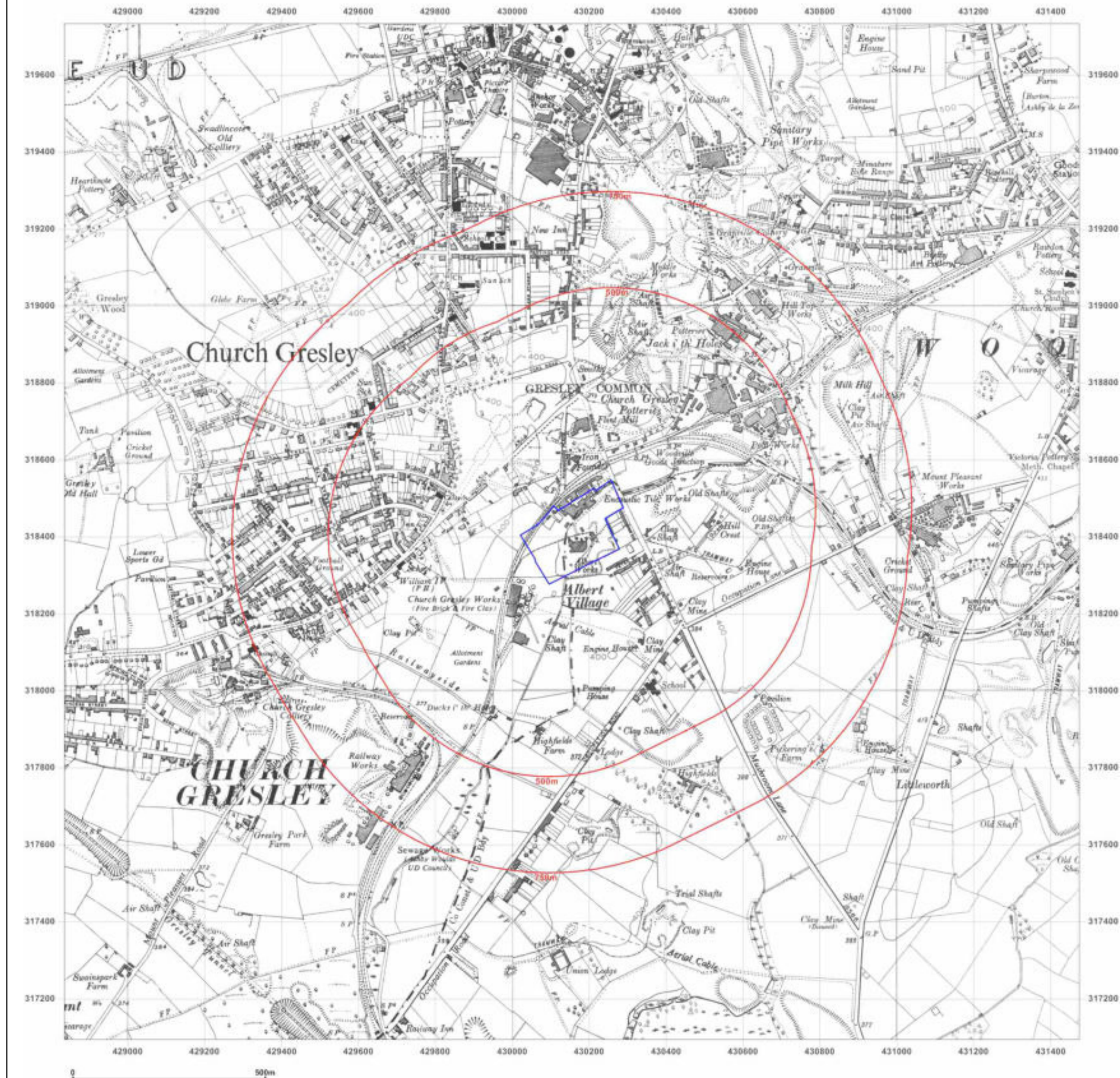
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8EL

Client Ref: EMS_646242_857429
Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: Provisional

Map date: 1955

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised 1954
Edition N/A
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Revised 1954
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Site Details:

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Client Ref: EMS_646242_857429
Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: Provisional

Map date: 1967

Scale: 1:10,560

Printed at: 1:10,560



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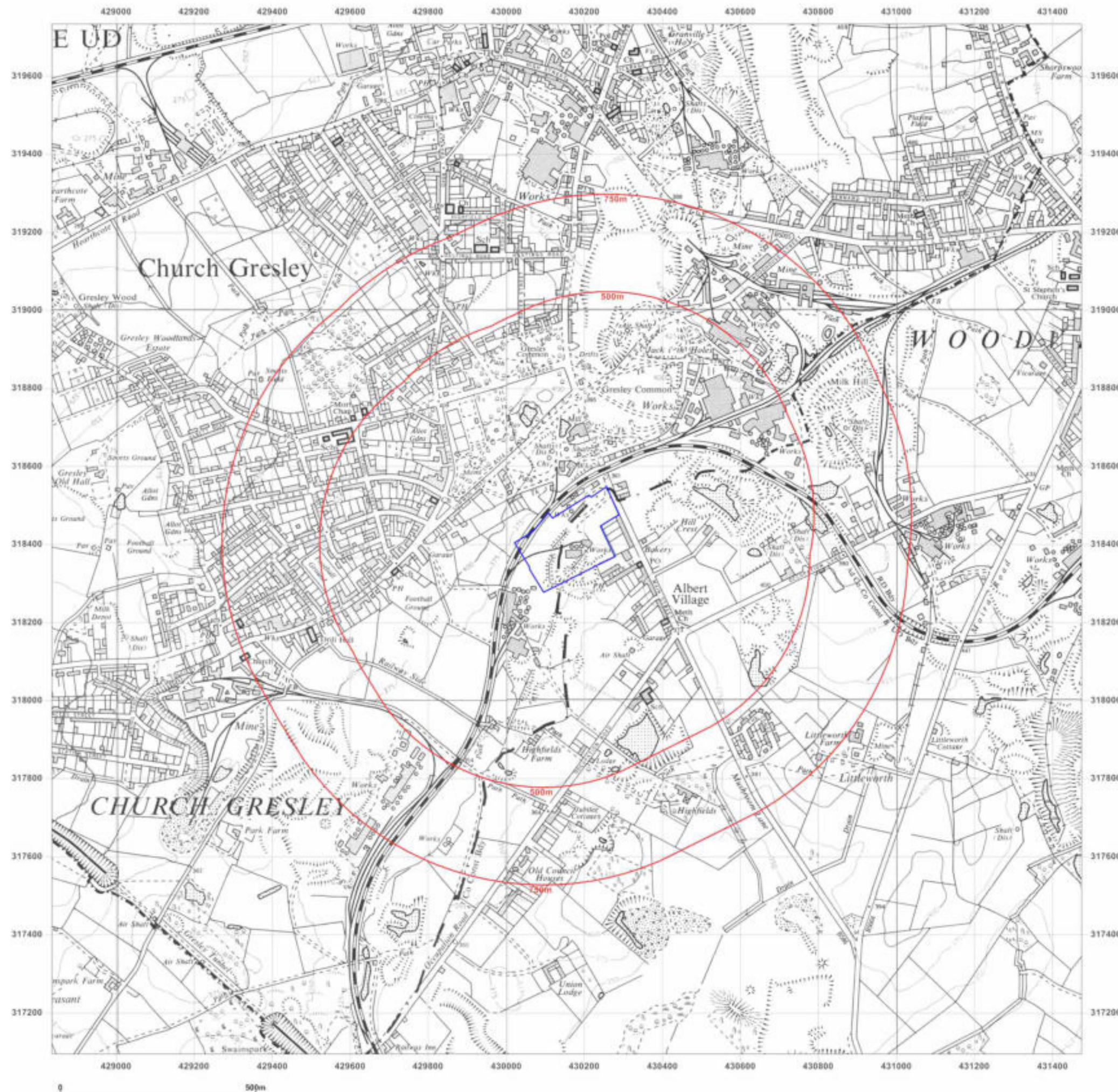


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Site Details:

Main Street, Swadlincote, DE11 8EL

Client Ref: EMS_646242_857429
Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: National Grid

Map date: 1989

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1984
 Revised 1989
 Edition N/A
 Copyright N/A
 Levelled N/A



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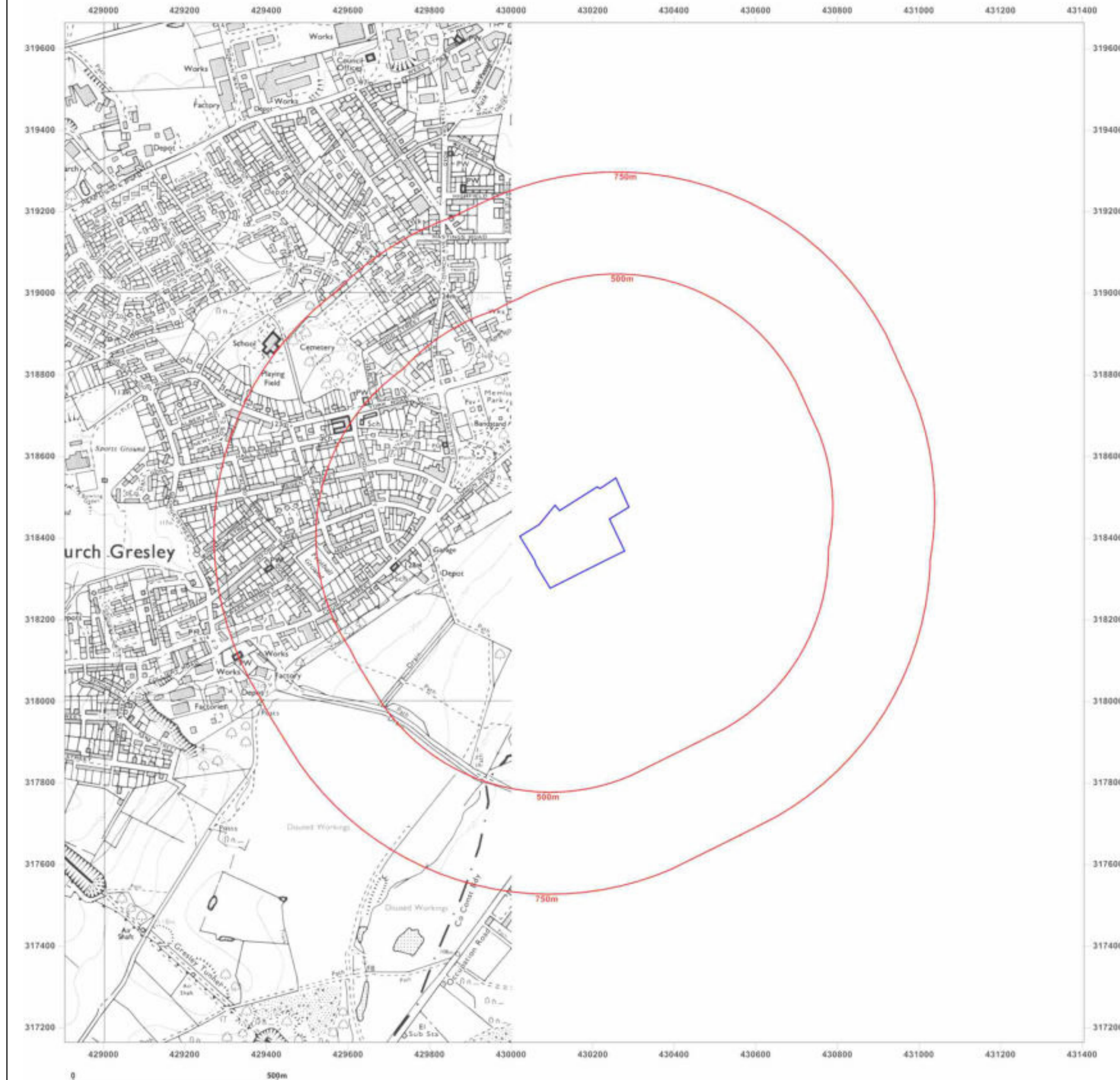


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Site Details:

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Client Ref: EMS_646242_857429
Report Ref: EMS-646242_857429
Grid Ref: 430154, 318413

Map Name: National Grid

Map date: 2020

Scale: 1:10,000

Printed at: 1:10,000



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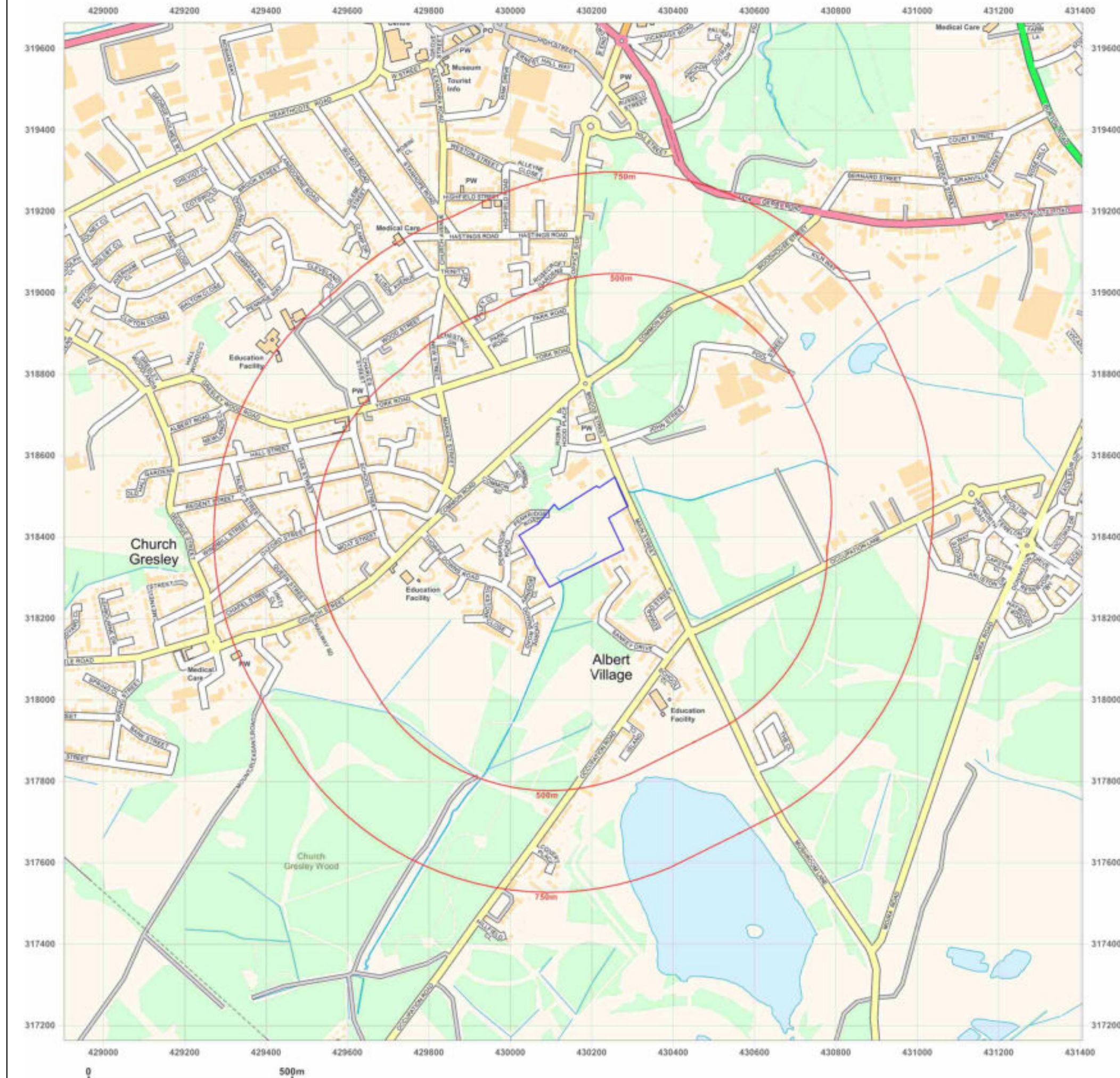


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Appendix C



Main Street, Swadlincote, DE11 8EL,

Order Details

Date: 10/11/2020
Your ref: EMS_646242_857430
Our Ref: EMS-646242_857430
Client: emapsite

Site Details

Location: 430161 318407
Area: 3.83 ha
Authority: [South Derbyshire District Council](#), [North West Leicestershire District Council](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.12

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Contact us with any questions at:

info@groundsure.com

08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	<u>Historical industrial land uses</u>	42	29	149	172	-
28	1.2	<u>Historical tanks</u>	8	7	22	44	-
31	1.3	<u>Historical energy features</u>	0	2	8	15	-
32	1.4	Historical petrol stations	0	0	0	0	-
32	1.5	<u>Historical garages</u>	0	0	7	0	-
33	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
34	2.1	<u>Historical industrial land uses</u>	51	35	168	201	-
51	2.2	<u>Historical tanks</u>	11	12	30	66	-
55	2.3	<u>Historical energy features</u>	0	4	11	31	-
57	2.4	Historical petrol stations	0	0	0	0	-
58	2.5	<u>Historical garages</u>	0	0	13	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
59	3.1	Active or recent landfill	0	0	0	0	-
59	3.2	Historical landfill (BGS records)	0	0	0	0	-
60	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
60	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
60	3.5	<u>Historical waste sites</u>	0	6	1	0	-
61	3.6	<u>Licensed waste sites</u>	0	0	0	3	-
62	3.7	<u>Waste exemptions</u>	0	2	0	3	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
64	4.1	<u>Recent industrial land uses</u>	0	9	12	-	-
66	4.2	<u>Current or recent petrol stations</u>	0	0	2	0	-
66	4.3	Electricity cables	0	0	0	0	-
66	4.4	Gas pipelines	0	0	0	0	-
66	4.5	Sites determined as Contaminated Land	0	0	0	0	-



67	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
67	4.7	Regulated explosive sites	0	0	0	0	-
67	4.8	Hazardous substance storage/usage	0	0	0	0	-
67	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
67	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
68	<u>4.11</u>	<u>Licensed pollutant release (Part A(2)/B)</u>	0	1	3	1	-
69	4.12	Radioactive Substance Authorisations	0	0	0	0	-
69	<u>4.13</u>	<u>Licensed Discharges to controlled waters</u>	0	0	3	2	-
70	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
70	4.15	Pollutant release to public sewer	0	0	0	0	-
70	4.16	List 1 Dangerous Substances	0	0	0	0	-
70	<u>4.17</u>	<u>List 2 Dangerous Substances</u>	0	0	0	2	-
71	<u>4.18</u>	<u>Pollution Incidents (EA/NRW)</u>	0	1	1	15	-
73	4.19	Pollution inventory substances	0	0	0	0	-
73	4.20	Pollution inventory waste transfers	0	0	0	0	-
73	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
74	5.1	Superficial aquifer	None (within 500m)				
75	<u>5.2</u>	<u>Bedrock aquifer</u>	Identified (within 500m)				
77	<u>5.3</u>	<u>Groundwater vulnerability</u>	Identified (within 50m)				
78	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
78	5.5	Groundwater vulnerability- local information	None (within 0m)				
79	<u>5.6</u>	<u>Groundwater abstractions</u>	0	0	0	0	1
80	<u>5.7</u>	<u>Surface water abstractions</u>	0	0	0	0	1
80	5.8	Potable abstractions	0	0	0	0	0
81	5.9	Source Protection Zones	0	0	0	0	-
81	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
82	<u>6.1</u>	<u>Water Network (OS MasterMap)</u>	4	3	11	-	-



84	6.2	<u>Surface water features</u>	1	2	5	-	-
84	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
85	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
85	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
86	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
86	7.2	Historical Flood Events	0	0	0	-	-
86	7.3	Flood Defences	0	0	0	-	-
86	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
87	7.5	Flood Storage Areas	0	0	0	-	-
88	7.6	Flood Zone 2	None (within 50m)				
88	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
89	8.1	<u>Surface water flooding</u>	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
91	9.1	<u>Groundwater flooding</u>	Negligible (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
92	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
93	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
93	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
93	10.4	Special Protection Areas (SPA)	0	0	0	0	0
93	10.5	National Nature Reserves (NNR)	0	0	0	0	0
94	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
94	10.7	<u>Designated Ancient Woodland</u>	0	0	0	0	1
94	10.8	Biosphere Reserves	0	0	0	0	0
94	10.9	Forest Parks	0	0	0	0	0
95	10.10	Marine Conservation Zones	0	0	0	0	0
95	10.11	Green Belt	0	0	0	0	0
95	10.12	Proposed Ramsar sites	0	0	0	0	0



95	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
95	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
96	10.15	Nitrate Sensitive Areas	0	0	0	0	0
96	10.16	<u>Nitrate Vulnerable Zones</u>	2	0	0	0	0
97	10.17	<u>SSSI Impact Risk Zones</u>	2	-	-	-	-
98	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
99	11.1	World Heritage Sites	0	0	0	-	-
99	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
99	11.3	National Parks	0	0	0	-	-
99	11.4	Listed Buildings	0	0	0	-	-
100	11.5	Conservation Areas	0	0	0	-	-
100	11.6	Scheduled Ancient Monuments	0	0	0	-	-
100	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
101	12.1	<u>Agricultural Land Classification</u>	Urban (within 250m)				
102	12.2	<u>Open Access Land</u>	0	0	12	-	-
103	12.3	Tree Felling Licences	0	0	0	-	-
103	12.4	Environmental Stewardship Schemes	0	0	0	-	-
103	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
104	13.1	<u>Priority Habitat Inventory</u>	0	0	4	-	-
105	13.2	Habitat Networks	0	0	0	-	-
105	13.3	<u>Open Mosaic Habitat</u>	1	1	0	-	-
105	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
107	14.1	<u>10k Availability</u>	Identified (within 500m)				
108	14.2	<u>Artificial and made ground (10k)</u>	3	4	7	16	-
110	14.3	Superficial geology (10k)	0	0	0	0	-



110	14.4	Landslip (10k)	0	0	0	0	-
<u>111</u>	<u>14.5</u>	<u>Bedrock geology (10k)</u>	1	2	3	10	-
<u>112</u>	<u>14.6</u>	<u>Bedrock faults and other linear features (10k)</u>	1	8	13	30	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
<u>115</u>	<u>15.1</u>	<u>50k Availability</u>	Identified (within 500m)				
<u>116</u>	<u>15.2</u>	<u>Artificial and made ground (50k)</u>	4	0	2	4	-
<u>117</u>	<u>15.3</u>	<u>Artificial ground permeability (50k)</u>	4	3	-	-	-
118	15.4	Superficial geology (50k)	0	0	0	0	-
118	15.5	Superficial permeability (50k)	None (within 50m)				
118	15.6	Landslip (50k)	0	0	0	0	-
118	15.7	Landslip permeability (50k)	None (within 50m)				
<u>119</u>	<u>15.8</u>	<u>Bedrock geology (50k)</u>	1	1	1	7	-
<u>120</u>	<u>15.9</u>	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
<u>120</u>	<u>15.10</u>	<u>Bedrock faults and other linear features (50k)</u>	0	4	2	11	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
<u>122</u>	<u>16.1</u>	<u>BGS Boreholes</u>	10	35	104	-	-
Page	Section	Natural ground subsidence					
<u>130</u>	<u>17.1</u>	<u>Shrink swell clays</u>	Very low (within 50m)				
<u>132</u>	<u>17.2</u>	<u>Running sands</u>	Very low (within 50m)				
<u>134</u>	<u>17.3</u>	<u>Compressible deposits</u>	Moderate (within 50m)				
<u>136</u>	<u>17.4</u>	<u>Collapsible deposits</u>	Very low (within 50m)				
<u>137</u>	<u>17.5</u>	<u>Landslides</u>	Very low (within 50m)				
<u>139</u>	<u>17.6</u>	<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
141	18.1	Natural cavities	0	0	0	0	-
<u>142</u>	<u>18.2</u>	<u>BritPits</u>	1	1	4	9	-
<u>144</u>	<u>18.3</u>	<u>Surface ground workings</u>	17	20	74	-	-
<u>149</u>	<u>18.4</u>	<u>Underground workings</u>	0	0	26	32	60
<u>153</u>	<u>18.5</u>	<u>Historical Mineral Planning Areas</u>	5	3	10	19	-



<u>155</u>	<u>18.6</u>	<u>Non-coal mining</u>	1	1	0	0	0
<u>156</u>	<u>18.7</u>	<u>Mining cavities</u>	0	0	2	1	2
<u>156</u>	<u>18.8</u>	<u>JPB mining areas</u>	Identified (within 0m)				
<u>157</u>	<u>18.9</u>	<u>Coal mining</u>	Identified (within 0m)				
157	18.10	Brine areas	None (within 0m)				
157	18.11	Gypsum areas	None (within 0m)				
157	18.12	Tin mining	None (within 0m)				
157	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
<u>158</u>	<u>19.1</u>	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
<u>159</u>	<u>20.1</u>	<u>BGS Estimated Background Soil Chemistry</u>	2	2	-	-	-
159	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
159	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
160	21.1	Underground railways (London)	0	0	0	-	-
160	21.2	Underground railways (Non-London)	0	0	0	-	-
161	21.3	Railway tunnels	0	0	0	-	-
<u>161</u>	<u>21.4</u>	<u>Historical railway and tunnel features</u>	12	10	38	-	-
163	21.5	Royal Mail tunnels	0	0	0	-	-
<u>163</u>	<u>21.6</u>	<u>Historical railways</u>	1	0	1	-	-
164	21.7	Railways	0	0	0	-	-
164	21.8	Crossrail 1	0	0	0	0	-
164	21.9	Crossrail 2	0	0	0	0	-
164	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 20/04/2019

Site Area: 3.83ha



Contact us with any questions at:

info@groundsure.com

08444 159 000

Date: 10 November 2020

Recent site history - 2018 aerial photograph



Capture Date: 01/07/2018

Site Area: 3.83ha



Contact us with any questions at:

info@groundsure.com

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Date: 10 November 2020

Recent site history - 2010 aerial photograph



Capture Date: 24/04/2010

Site Area: 3.83ha



Contact us with any questions at:

info@groundsure.com

08444 159 000

Date: 10 November 2020

Recent site history - 1999 aerial photograph



Capture Date: 17/11/1999

Site Area: 3.83ha



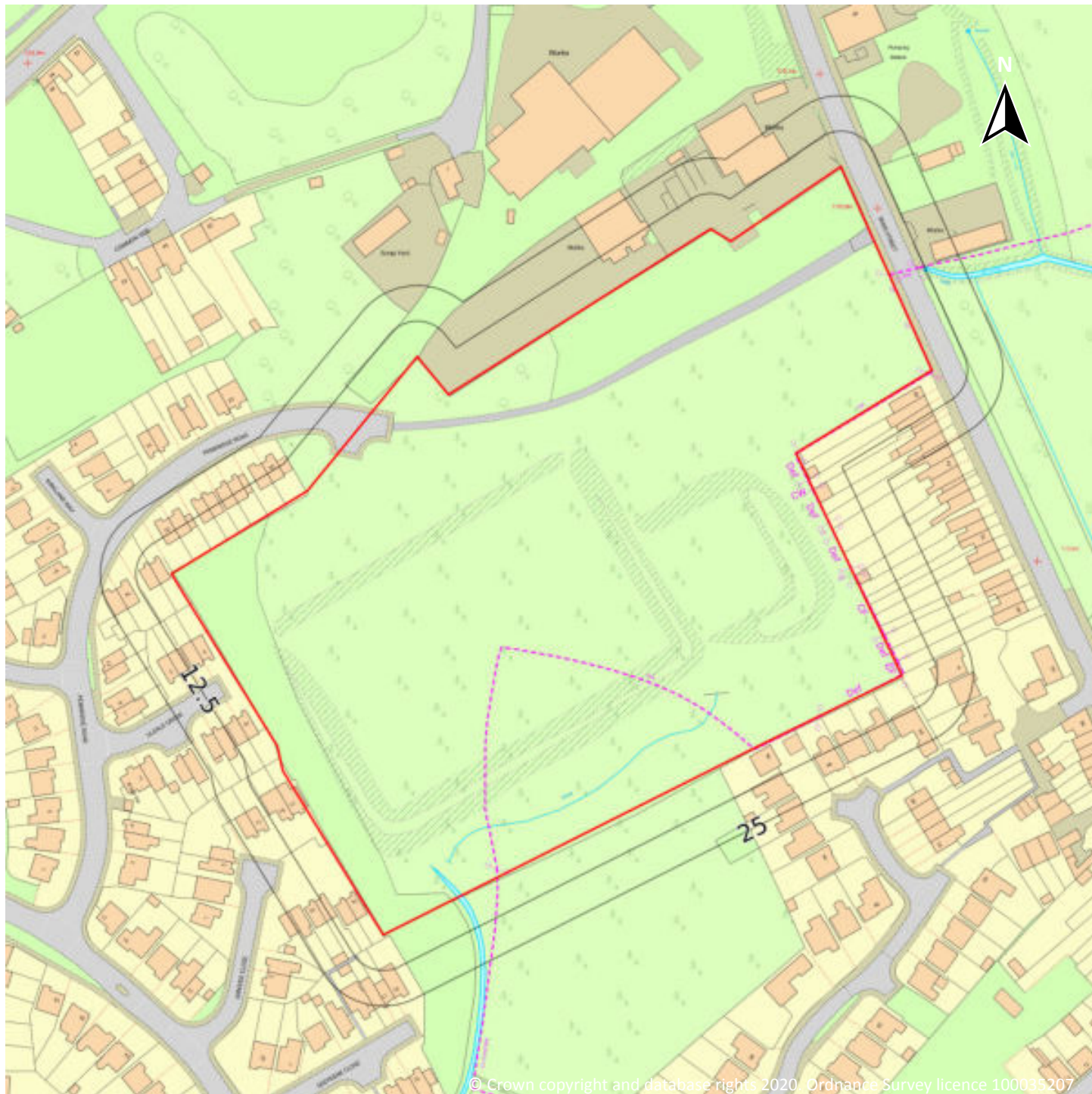
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Date: 10 November 2020

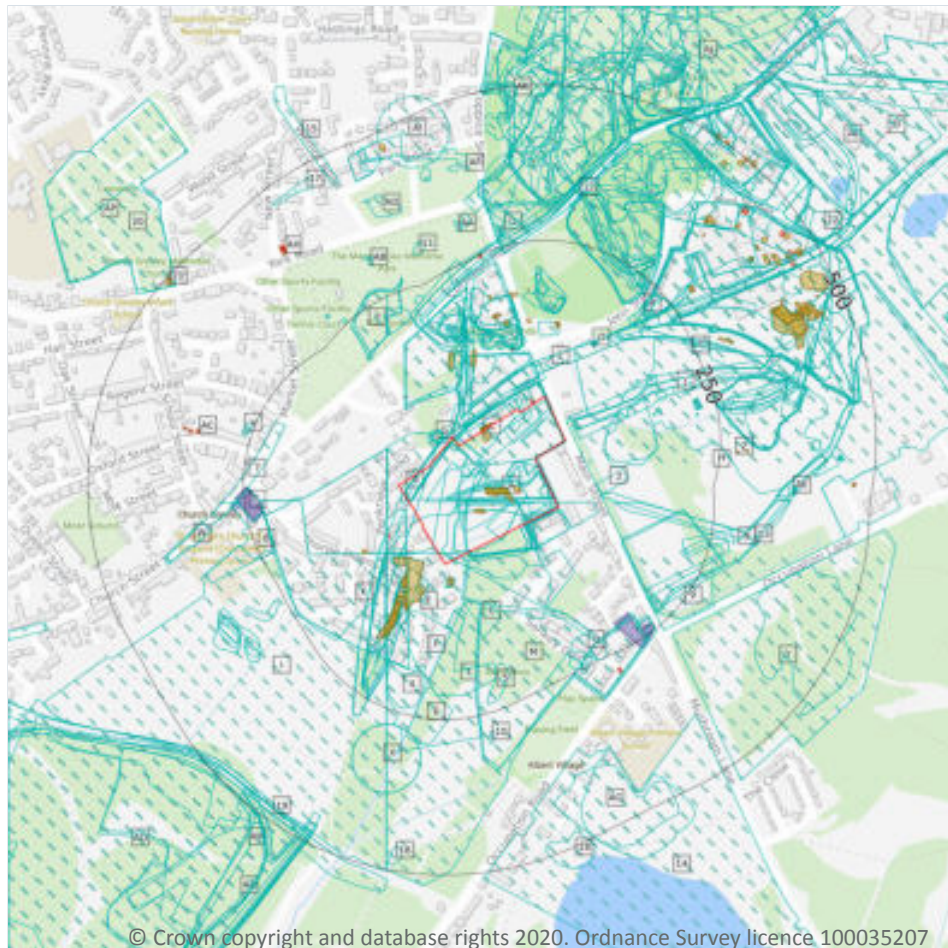
OS MasterMap site plan



Site Area: 3.83ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

392

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 13**

ID	Location	Land use	Dates present	Group ID
1	On site	Opencast Workings	1975	1577096



ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Tank	1967	1592155
A	On site	Refuse Heap	1882	1596136
A	On site	Brick and Tile Works	1882	1601428
A	On site	Unspecified Pit	1900	1611207
A	On site	Unspecified Tank	1967 - 1975	1620980
A	On site	Unspecified Tanks	1884	1622173
A	On site	Blue Brick and Tile Works	1882	1631586
A	On site	Railway Sidings	1925	1636341
A	On site	Unspecified Works	1967	1644311
A	On site	Railway Sidings	1925	1646922
A	On site	Unspecified Tanks	1925 - 1938	1646974
A	On site	Unspecified Works	1925	1657680
A	On site	Unspecified Tanks	1882 - 1900	1659203
A	On site	Unspecified Ground Workings	1925	1678294
A	On site	Unspecified Ground Workings	1925 - 1938	1678295
A	On site	Unspecified Ground Workings	1967	1682216
A	On site	Tile Works	1950	1683540
A	On site	Railway Sidings	1900 - 1967	1685254
A	On site	Unspecified Works	1900	1718620
A	On site	Unspecified Ground Workings	1884	1727092
A	On site	Blue Brick and Tile Works	1885	1731187
A	On site	Unspecified Tanks	1950	1731896
A	On site	Unspecified Ground Workings	1950	1733359
A	On site	Unspecified Tank	1967 - 1975	1735724
A	On site	Railway Sidings	1884	1746486
B	On site	Railway Sidings	1882	1613869
B	On site	Refuse Heap	1975	1619289
C	On site	Unspecified Tanks	1967	1580116



ID	Location	Land use	Dates present	Group ID
C	On site	Railway Sidings	1900	1623271
C	On site	Railway Sidings	1938	1646098
C	On site	Encaustic Tile Works	1900	1671674
C	On site	Encaustic Tile Works	1884	1684855
C	On site	Railway Sidings	1925	1699063
C	On site	Encaustic Tile Works	1882	1702213
C	On site	Encaustic Tile Works	1938	1716001
C	On site	Tile Works	1925	1718498
C	On site	Unspecified Works	1967 - 1975	1736456
D	On site	Railway Sidings	1925	1635511
D	On site	Railway Sidings	1884	1735538
E	On site	Unspecified Commercial/Industrial	1950	1691428
F	On site	Unspecified Works	1967	1709955
A	2m SE	Unspecified Works	1900	1649402
A	4m SE	Unspecified Ground Workings	1900	1729520
C	4m NW	Railway Sidings	1882	1678530
E	10m SW	Railway Sidings	1884	1668658
G	10m NW	Unspecified Pit	1900	1669612
G	10m NW	Unspecified Pit	1938 - 1950	1709897
G	10m NW	Unspecified Pit	1925	1637592
G	10m NW	Unspecified Pit	1925	1729290
D	12m N	Tramway Sidings	1884	1639233
G	12m NW	Unspecified Pit	1882 - 1884	1734867
H	14m NE	Opencast Workings	1975	1665492
E	14m SW	Fire Brick and Fire Clay Works	1925	1644310
E	19m W	Refuse Heap	1974	1698491
I	19m W	Unspecified Works	1974	1690903
C	20m NW	Railway Sidings	1884	1749982



ID	Location	Land use	Dates present	Group ID
D	21m NE	Railway Sidings	1938	1617244
E	23m S	Sewage Tanks	1900 - 1925	1659243
E	23m S	Sewage Tanks	1900	1726075
J	26m NE	Railway Sidings	1950	1655435
E	28m SW	Unspecified Tanks	1967	1738645
E	33m SW	Unspecified Tanks	1950	1718207
E	38m SW	Refuse Heap	1950	1596137
C	39m NW	Iron Foundry	1950	1734673
E	40m SW	Fire Brick and Clay Works	1884	1577772
K	42m SW	Fire Brick and Fire Clay Works	1938	1653146
K	42m SW	Fire Brick Works	1900	1727611
C	46m NW	Unspecified Works	1967	1712988
2	46m N	Unspecified Heap	1975	1568153
E	47m SW	Unspecified Tanks	1950	1691513
E	56m SW	Sewage Tanks	1925	1575706
C	57m NW	Iron Foundry	1884	1714464
J	63m E	Unspecified Ground Workings	1967	1632904
C	64m NW	Iron Foundry	1925	1621193
J	65m E	Refuse Heap	1950	1596187
H	69m E	Tramway Sidings	1950	1685721
E	69m SW	Unspecified Tanks	1884	1706491
L	71m SE	Unspecified Heap	1967	1568152
3	71m NE	Bakery	1967	1575351
E	71m SW	Fire Brick and Fire Clay Works	1950	1692885
E	71m SW	Unspecified Commercial/Industrial	1967	1744157
C	72m N	Unspecified Commercial/Industrial	1925	1630873
E	75m SW	Unspecified Tanks	1938	1624480
F	76m S	Railway Sidings	1967	1623270



ID	Location	Land use	Dates present	Group ID
L	76m S	Cuttings	1967	1561425
C	78m NW	Iron Foundry	1938	1617536
C	78m NW	Unspecified Commercial/Industrial	1900	1701339
E	81m SW	Unspecified Tanks	1925	1642545
M	83m SE	Clay Mine	1950	1626387
C	85m NW	Unspecified Heap	1950	1749775
C	86m NW	Ground Workings and Heap	1884	1599113
C	88m NW	Unspecified Heap	1925	1698784
E	88m SW	Unspecified Tanks	1900	1744290
C	88m NW	Unspecified Heap	1967	1623516
C	88m NW	Refuse Heap	1900	1654377
C	89m NW	Unspecified Heap	1938	1622867
M	90m SE	Clay Mine	1925	1664273
N	91m E	Tramway Sidings	1925	1640500
E	91m SW	Unspecified Tank	1900	1592133
C	97m N	Potteries	1884	1612131
C	100m N	Unspecified Shaft	1967	1578935
C	106m N	Unspecified Tanks	1884	1675979
C	107m N	Refuse Heap	1925	1685159
C	107m N	Refuse Heap	1938	1630771
E	108m SW	Unspecified Tanks	1967	1638804
E	108m SW	Unspecified Tanks	1950	1699053
C	109m N	Unspecified Tanks	1900	1673325
C	109m N	Unspecified Tanks	1925 - 1938	1731604
O	113m NE	Junction Station	1925	1577214
N	113m SE	Clay Mine	1900	1726027
E	113m SW	Unspecified Tank	1900	1592132
O	114m NE	Railway Building	1938	1584231



ID	Location	Land use	Dates present	Group ID
N	114m SE	Clay Mine	1925 - 1950	1669433
C	119m NW	Unspecified Pit	1938	1747010
C	119m N	Unspecified Pit	1925	1748352
C	123m NW	Unspecified Shaft	1967	1578936
C	123m N	Flint Mill	1884	1697238
C	124m N	Flint Mill	1950	1628344
C	124m N	Unspecified Mill	1967	1726874
C	124m NW	Flint Mill	1925	1748375
C	124m N	Unspecified Mill	1900	1630422
C	124m N	Unspecified Mill	1938	1656915
C	125m NW	Unspecified Tank	1925	1690427
C	126m NW	Refuse Heap	1882	1596133
C	126m NW	Unspecified Tank	1900	1719345
C	126m NW	Unspecified Tank	1938	1739703
C	127m NW	Chimney	1967	1605968
C	127m NW	Refuse Heap	1882	1596135
E	129m SW	Unspecified Tanks	1967	1673220
C	133m N	Unspecified Ground Workings	1884	1564773
C	134m NW	Clay Mill	1882	1612275
D	134m NE	Railway Sidings	1882	1613868
C	135m N	Refuse Heap	1925	1675316
C	135m N	Refuse Heap	1938	1701221
C	135m N	Unspecified Heap	1950	1568155
D	136m NW	Tramway Sidings	1925	1673855
C	137m N	Unspecified Heaps	1967	1599379
C	137m NW	Unspecified Disused Shafts	1967	1605882
C	140m NW	Refuse Heap	1900	1596134
J	143m NE	Old Clay Shaft	1882	1571049



ID	Location	Land use	Dates present	Group ID
C	147m NW	Unspecified Heap	1950	1680777
J	147m E	Old Clay Shafts	1882	1586998
C	148m NW	Unspecified Heap	1925	1652211
C	148m NW	Unspecified Heap	1884	1683784
D	150m NE	Railway Sidings	1900	1645807
J	153m E	Unspecified Old Shafts	1938	1560143
C	157m NW	Unspecified Heap	1967	1639419
J	158m NE	Refuse Heap	1882	1596186
C	162m N	Refuse Heap	1925	1718860
J	162m NE	Unspecified Pit	1950	1611211
J	164m NE	Old Clay Shafts	1882	1586997
4	166m S	Unspecified Ground Workings	1967	1564766
E	166m SW	Refuse Heap	1950	1619470
E	175m SW	Refuse Heap	1925	1617660
D	179m NE	Potteries	1950	1721312
D	179m NE	Railway Sidings	1950	1745669
D	180m NE	Unspecified Works	1967	1734872
P	181m NW	Unspecified Pit	1950	1611204
5	181m SE	Unspecified Pit	1967	1611208
P	183m NW	Unspecified Ground Workings	1925	1711827
P	184m NW	Unspecified Ground Workings	1938	1622499
D	192m NE	Ground Workings and Heap	1884	1599114
D	193m NE	Unspecified Ground Workings	1950	1654050
P	193m NW	Unspecified Heap	1950	1568156
N	195m SE	Tramway Sidings	1900	1640356
D	197m NE	Unspecified Ground Workings	1925	1741151
D	198m NE	Unspecified Works	1967 - 1975	1696191
6	199m S	Unspecified Ground Workings	1967	1564763



ID	Location	Land use	Dates present	Group ID
D	199m NE	Unspecified Ground Workings	1938	1728735
Q	201m SE	Unspecified Heap	1967	1568147
R	203m NE	Potteries	1884	1698189
D	205m NE	Potteries	1925 - 1938	1666903
7	206m NW	Railway Sidings	1950	1700353
Q	208m SE	Clay Mine	1900	1721975
N	209m E	Clay Mine	1900	1649825
Q	209m SE	Clay Mine	1900	1697801
R	211m NE	Refuse Heap	1882	1596181
J	215m E	Old Clay Shafts	1882	1586996
N	215m E	Tramway Sidings	1900	1727074
J	215m E	Unspecified Old Shafts	1950	1630846
J	216m E	Old Shafts	1884	1613036
J	217m E	Unspecified Old Shafts	1925	1624329
J	217m E	Unspecified Old Shafts	1925	1674336
J	217m E	Unspecified Old Shafts	1950	1728467
D	218m NE	Railway Sidings	1967	1657574
J	218m E	Unspecified Old Shafts	1925	1637662
J	218m E	Unspecified Old Shafts	1925	1640767
J	219m E	Unspecified Old Shafts	1938	1617042
8	219m W	Unspecified Depot	1989	1583303
D	220m NE	Unspecified Commercial/Industrial	1884	1562702
P	221m N	Old Clay Shaft	1882	1571051
S	221m W	Garage	1967 - 1974	1630799
S	221m W	Garage	1989	1747277
D	222m NE	Refuse Heap	1882	1692884
D	225m NW	Tram Sidings	1950	1579651
9	225m SE	Clay Mine	1900	1662553



ID	Location	Land use	Dates present	Group ID
Q	226m SE	Garage	1967	1613444
Q	228m SE	Refuse Heap	1925	1596138
D	229m NE	Railway Sidings	1938	1705608
D	231m NE	Unspecified Pits	1900	1577038
Q	232m SE	Clay Mine	1900	1667977
D	233m NE	Pool Works	1884 - 1900	1652307
D	233m NE	Railway Sidings	1950	1645678
D	234m NE	Fire Brick and Sanitary Pipe Works	1882	1579662
D	235m NE	Pool Works	1925	1698101
D	235m NE	Pool Works	1950	1615351
D	235m NE	Unspecified Works	1967	1704529
D	236m NE	Railway Sidings	1925	1678469
D	237m NE	Unspecified Works	1938	1734484
D	241m NE	Potteries	1882 - 1900	1708883
T	242m NE	Refuse Heap	1882	1596185
Q	243m SE	Engine House	1925 - 1950	1633861
U	245m N	Smithy	1900	1649409
U	245m N	Smithy	1938	1707424
H	246m E	Unspecified Ground Workings	1884	1713574
D	246m N	Unspecified Works	1950	1732441
H	247m E	Unspecified Pit	1950	1618629
H	247m E	Unspecified Pit	1925	1717348
H	248m E	Unspecified Pit	1938	1735688
T	251m NE	Old Clay Shaft	1882	1571050
H	252m E	Tram Sidings	1950	1579652
P	253m NW	Unspecified Shafts	1882	1574253
V	255m W	Smithy	1938 - 1950	1717322
V	257m W	Smithy	1925	1632290



ID	Location	Land use	Dates present	Group ID
W	260m W	Railway Sidings	1938	1661797
I	263m SW	Unspecified Ground Workings	1967	1564821
D	263m N	Cuttings	1925	1561426
U	265m N	Smithy	1950	1623849
U	266m N	Smithy	1884	1706308
U	268m N	Smithy	1925	1745182
D	268m N	Unspecified Works	1884	1740870
X	272m S	Unspecified Hole	1900	1658163
X	272m S	Unspecified Hole	1938	1678145
Y	274m SE	Refuse Heap	1975	1596184
P	275m NW	Unspecified Shafts	1882	1574252
D	276m NE	Unspecified Heap	1938	1711581
D	278m N	Unspecified Drifts	1967	1601423
10	280m S	Pumping House	1925 - 1950	1715697
H	292m E	Unspecified Pits	1900	1577042
11	294m NW	Refuse Heap	1882	1596129
D	297m NE	Unspecified Heap	1967	1725066
D	298m N	Unspecified Pit	1967	1611210
AA	298m NW	Pumping Shaft	1882	1579673
AA	300m NW	Refuse Heap	1882	1596132
D	303m NE	Old Clay Shaft	1882	1571052
H	305m E	Unspecified Old Shafts	1938	1560142
AB	305m NW	Unspecified Shafts	1882	1574244
D	306m N	Unspecified Works	1925	1631925
D	310m N	Brick Works	1900	1583727
D	310m N	Fire Brick and Terracotta Works	1882	1613090
D	310m N	Unspecified Works	1938	1668363
D	310m N	Unspecified Ground Workings	1938	1679731



ID	Location	Land use	Dates present	Group ID
D	310m N	Unspecified Ground Workings	1884 - 1900	1681553
D	310m N	Unspecified Ground Workings	1950	1671593
W	311m W	Railway Sidings	1950	1673370
D	311m N	Unspecified Ground Workings	1925	1730738
12	311m N	Tunnel	1925	1588944
AB	314m NW	Unspecified Shafts	1882	1574245
13	314m E	Engine House	1925 - 1950	1743380
D	316m N	Railway Sidings	1882	1674314
AB	318m NW	Unspecified Shafts	1882	1574246
I	320m SW	Clay Pit	1884	1659966
I	323m SW	Refuse Heap	1938 - 1950	1675293
I	330m SW	Refuse Heap	1925	1636355
I	335m SW	Unspecified Pit	1967	1611206
D	336m NE	Unspecified Holes	1967	1685061
I	340m SW	Clay Pit	1938	1739781
I	341m SW	Clay Pit	1950	1645514
D	345m N	Unspecified Heap	1967	1568139
I	345m SW	Clay Pit	1925	1722323
D	347m N	Unspecified Ground Workings	1884	1720275
D	348m NE	Unspecified Holes	1882 - 1900	1739598
D	349m N	Refuse Heap	1950	1657278
Y	352m SE	Unspecified Ground Workings	1967	1564765
D	356m NE	Unspecified Holes	1938	1741225
D	359m NE	Refuse Heap	1925	1658495
H	359m E	Refuse Heap	1882	1596183
14	361m SE	Unspecified Workings	1975	1587987
D	364m N	Refuse Heap	1900	1713111
AD	368m NW	Unspecified Pit	1882 - 1900	1675237



ID	Location	Land use	Dates present	Group ID
AE	368m E	Unspecified Disused Shaft	1967	1578597
D	371m N	Refuse Heap	1900	1621259
D	371m N	Refuse Heap	1882 - 1900	1676891
AE	373m E	Old Shafts	1884	1613033
AE	374m E	Unspecified Old Shafts	1950	1641192
AE	375m E	Unspecified Old Shafts	1925	1733105
D	378m NE	Refuse Heap	1882	1596182
D	379m NE	Unspecified Tanks	1967	1725945
AF	384m N	Unspecified Old Shaft	1900	1571822
AG	385m SE	Unspecified Pit	1967	1673666
D	387m N	Unspecified Ground Workings	1925	1700456
D	387m N	Unspecified Ground Workings	1925	1708322
D	388m NE	Unspecified Tanks	1884 - 1900	1626848
AF	389m N	Refuse Heap	1882	1596131
D	389m NE	Unspecified Tanks	1950	1737842
D	390m NE	Unspecified Tanks	1882	1645822
D	392m NE	Unspecified Tanks	1925	1681856
D	392m NE	Unspecified Tank	1884	1724168
D	392m N	Unspecified Heap	1967	1568154
D	392m NE	Unspecified Tanks	1938	1677834
AF	393m NW	Refuse Heap	1882	1596130
D	393m NE	Unspecified Tanks	1950	1614497
D	394m N	Shaft	1884	1583088
AE	395m E	Old Clay Shafts	1900	1586995
D	395m NE	Unspecified Tank	1925 - 1938	1618454
D	396m NE	Unspecified Tank	1900	1650264
AF	396m NW	Pumping Shaft	1882	1579674
AE	397m E	Refuse Heap	1900	1596180



ID	Location	Land use	Dates present	Group ID
AG	401m SE	Unspecified Pit	1950	1653603
D	402m NE	Unspecified Tanks	1882	1633442
AD	402m N	Unspecified Shaft	1882	1578938
AE	403m E	Pumping Shaft	1882	1579672
D	405m E	Unspecified Heap	1925	1699853
D	406m E	Unspecified Heap	1950	1724495
AE	408m E	Refuse Heap	1882	1596179
D	409m E	Refuse Heap	1882 - 1900	1633768
D	411m NE	Unspecified Holes	1950	1743660
AI	417m NW	Pottery	1882	1703162
AE	420m E	Unspecified Works	1975	1598159
D	420m NE	Unspecified Tank	1882	1592146
AJ	424m N	Colliery	1925	1683840
AJ	424m N	Colliery	1925	1703223
D	424m NE	Refuse Heap	1925	1653233
D	431m NE	Refuse Heap	1882 - 1900	1738365
AE	440m E	Old Clay Shaft	1882	1571053
AE	440m E	Old Clay Shafts	1900	1587002
AE	440m E	Old Shafts	1884	1613037
AE	440m E	Unspecified Old Shafts	1925 - 1950	1643972
AI	440m N	Unspecified Works	1989	1618597
AI	440m N	Unspecified Works	1974	1677597
AE	440m E	Unspecified Disused Shaft	1967	1578595
AK	442m N	Unspecified Ground Workings	1925	1670802
D	443m N	Unspecified Ground Workings	1975	1614988
D	443m NE	Unspecified Works	1975	1700998
D	443m NE	Potteries	1950	1655668
D	444m N	Refuse Heap	1938	1615450



ID	Location	Land use	Dates present	Group ID
AK	446m N	Unspecified Ground Workings	1884	1725427
15	447m NW	Railway Sidings	1950	1560711
D	447m NE	Potteries	1900	1683300
AI	448m NW	Pottery	1900	1660285
AJ	448m N	Colliery	1884	1656503
D	448m NE	Refuse Heap	1882 - 1900	1713623
AL	448m NE	Brick Yard	1882	1602044
AJ	448m N	Unspecified Mine	1967	1611702
AL	448m N	Railway Sidings	1967	1741714
D	450m NE	Potteries	1925	1620001
D	451m NE	Potteries	1938	1663536
AL	451m NE	Unspecified Works	1967 - 1975	1718818
AM	451m SW	Mineral Railway Sidings	1925 - 1938	1645848
AK	454m N	Unspecified Pit	1950	1611199
D	454m NE	Unspecified Commercial/Industrial	1884	1562701
16	460m S	Unspecified Pit	1967	1611205
17	460m NW	Unspecified Pit	1882	1611201
D	462m NE	Unspecified Holes	1975	1560214
D	464m N	Refuse Heap	1950	1723292
D	465m NE	Potteries	1884	1733125
D	465m NE	Unspecified Tank	1882	1592141
AN	467m SW	Railway Sidings	1925	1613815
AN	467m SW	Railway Sidings	1884	1613816
D	468m N	Ground Workings and Refuse Heap	1884	1576147
D	468m N	Refuse Heap	1925	1713712
D	468m NE	Unspecified Tanks	1882	1580117
D	470m NE	Unspecified Pit	1950	1611215
AO	473m SW	Unspecified Works	1967	1669290



ID	Location	Land use	Dates present	Group ID
18	478m SE	Unspecified Pit	1967	1611209
AM	478m SW	Railway Sidings	1967	1709479
AM	478m SW	Mineral Railway Sidings	1950	1718912
19	480m SW	Mineral Railway Sidings	1884	1652952
AO	480m SW	Refuse Heaps	1974	1573236
AN	481m SW	Railway Sidings	1900	1726169
D	481m N	Refuse Heap	1900	1642998
AP	481m NW	Cemetery	1974	1717378
AP	481m NW	Cemetery	1989	1729107
AL	482m NE	Unspecified Mine	1967	1611703
AN	482m SW	Railway Sidings	1882 - 1884	1635456
AL	482m NE	Unspecified Works	1884 - 1900	1637816
20	482m NW	Cemetery	1950	1666978
AL	487m NE	Unspecified Works	1925	1669539
AO	488m SW	Unspecified Disused Workings	1989	1612002
AL	488m NE	Unspecified Works	1950	1680858
AL	488m NE	Unspecified Works	1938	1684477
AO	488m SW	Railway Works	1938 - 1950	1695838
AN	491m SW	Sanitary Pipe Works	1900	1682711
AM	491m SW	Sanitary Pipe Works	1884 - 1900	1660241
D	493m NE	Unspecified Tanks	1882	1580118
AL	494m NE	Railway Sidings	1950	1635472
AK	494m N	Refuse Heap	1882	1596252
D	494m N	Railway Sidings	1975	1685912
D	495m N	Unspecified Ground Workings	1900	1564774
AM	498m SW	Sanitary Pipe Works	1925	1734936
22	499m NE	Refuse Heap	1882	1706239

This data is sourced from Ordnance Survey / Groundsure.



1.2 Historical tanks

Records within 500m

81

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 13**

ID	Location	Land use	Dates present	Group ID
A	On site	Tanks	1974	259705
A	On site	Unspecified Tank	1882	251438
A	On site	Tanks	1882	259808
A	On site	Tanks	1923 - 1937	273883
A	On site	Tanks	1883 - 1901	276418
A	On site	Tanks	1959	276991
A	On site	Tanks	1974	279326
C	On site	Tanks	1959	259810
C	0m NW	Unspecified Tank	1993 - 1995	272303
C	1m NW	Unspecified Tank	1985	268421
C	1m NW	Unspecified Tank	1999	267682
C	2m NW	Unspecified Tank	1990	263919
E	25m S	Sewerage Tanks	1883	259415
E	25m S	Sewage Tanks	1901 - 1923	266155
E	27m SW	Tanks	1959	274864
E	63m SW	Tanks	1937	277269
E	80m SW	Unspecified Tank	1923	251429
E	82m SW	Tanks	1937	271191
E	95m SW	Tanks	1937	274110
E	96m SW	Tanks	1923	272850
C	96m NW	Tanks	1901	267731



ID	Location	Land use	Dates present	Group ID
E	96m SW	Tanks	1901	277898
E	97m W	Unspecified Tank	1959	251428
E	109m SW	Tanks	1959	271223
C	110m N	Tanks	1923	259811
C	112m N	Unspecified Tank	1990	264679
C	113m N	Tanks	1993	279420
C	114m N	Tanks	1985	264875
C	114m N	Unspecified Tank	1974	266140
C	118m N	Tanks	1985	272689
C	120m N	Unspecified Tank	1901	274663
C	128m NW	Unspecified Tank	1923	251439
C	148m NW	Tanks	1959	266922
C	151m NW	Tanks	1923 - 1937	272075
C	167m N	Tanks	1901	270979
C	171m N	Tanks	1901	275219
C	178m NW	Tanks	1923	259809
Z	277m E	Unspecified Tank	1882	251443
D	287m NE	Unspecified Tank	1990	277693
D	291m NE	Unspecified Tank	1974	251424
Z	291m E	Unspecified Tank	1883	251442
T	291m NE	Unspecified Tank	1974	251440
D	361m NE	Unspecified Tank	1923	251422
D	376m N	Unspecified Tank	1923	251421
D	378m NE	Tanks	1990	273200
D	380m NE	Tanks	1959	278833
D	382m NE	Tanks	1974	264413
D	387m NE	Unspecified Tank	1985 - 1993	273300
D	390m NE	Tanks	1937	276041

ID	Location	Land use	Dates present	Group ID
D	391m NE	Tanks	1923	271831
D	394m NE	Unspecified Tank	1923 - 1937	264671
D	407m NE	Unspecified Tank	1985 - 1993	269262
D	409m NE	Tanks	1923	259764
D	414m NE	Tanks	1882	259763
D	415m NE	Unspecified Tank	1985 - 1993	271985
D	426m NE	Tanks	1901	263310
D	426m NE	Unspecified Tank	1882	251441
D	428m NE	Unspecified Tank	1901	270899
D	428m NE	Tanks	1883	259762
D	429m NE	Unspecified Tank	1923 - 1937	271573
D	432m NE	Tanks	1882	267172
D	441m NE	Tanks	1883	277244
D	447m NE	Tanks	1985 - 1993	268492
D	448m NE	Unspecified Tank	1974	251604
D	449m NE	Unspecified Tank	1882 - 1883	264562
D	462m NE	Unspecified Tank	1901	274071
D	462m NE	Unspecified Tank	1923	251414
D	463m NE	Tanks	1974 - 1990	278222
D	466m NE	Tanks	1985	273507
AI	466m NW	Tanks	1986 - 1995	272896
D	466m NE	Tanks	1993	276532
AE	467m E	Unspecified Tank	1990	273039
D	469m NE	Unspecified Tank	1923	251425
AE	469m E	Unspecified Tank	1974 - 1993	275748
AI	470m NW	Unspecified Tank	1901	251420
D	485m NE	Unspecified Tank	1882	251426
21	486m NW	Unspecified Tank	1959	251423



ID	Location	Land use	Dates present	Group ID
D	496m NE	Unspecified Tank	1901	265802
D	496m NE	Unspecified Tank	1883	251427
D	498m NE	Unspecified Tank	1901	275959
D	499m NE	Unspecified Tank	1901	275898

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	25
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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 13**

ID	Location	Land use	Dates present	Group ID
C	2m NW	Electricity Substation	1993	157713
C	3m NW	Electricity Substation	1985 - 1990	159138
E	54m SW	Electricity Substation	1999	147899
C	88m NW	Electricity Substation	1993	165299
C	90m NW	Electricity Substation	1985 - 1990	159313
E	177m SW	Electricity Substation	1971	147898
U	245m NW	Gas Governor	1993	150518
U	247m NW	Gas Governor	1985	157271
U	248m NW	Gas Governor	1990	162432
U	248m NW	Gas Governor	1974	157272
Q	274m SE	Electricity Substation	1990	162057
Q	279m SE	Electricity Substation	1995 - 1999	165350
AC	331m W	Electricity Substation	1986 - 1996	151587
AC	343m W	Electricity Substation	1971	147900



ID	Location	Land use	Dates present	Group ID
AC	352m W	Electricity Substation	1980	156919
AH	398m NW	Electricity Substation	1986	153936
AH	404m NW	Electricity Substation	1993 - 1995	160240
AH	404m NW	Electricity Substation	1980	160310
AH	407m NW	Electricity Substation	1971	166018
D	432m NE	Electricity Substation	1985 - 1990	154628
D	434m NE	Electricity Substation	1974 - 1993	167391
D	444m NE	Electricity Substation	1990	166209
D	449m NE	Electricity Substation	1985 - 1993	166437
D	453m NE	Electricity Substation	1974	147903
D	457m NE	Electricity Substation	1985 - 1993	155374

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

7

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'.

Features are displayed on the Past land use map on **page 13**



ID	Location	Land use	Dates present	Group ID
Q	203m SE	Garage	1990	51677
Q	206m SE	Garage	1995 - 1999	51183
S	222m W	Garage	1986	50635
S	222m W	Garage	1980	50524
S	224m W	Garage	1995 - 1996	53676
S	224m W	Garage	1959 - 1971	54234
Q	236m SE	Garage	1959	49891

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

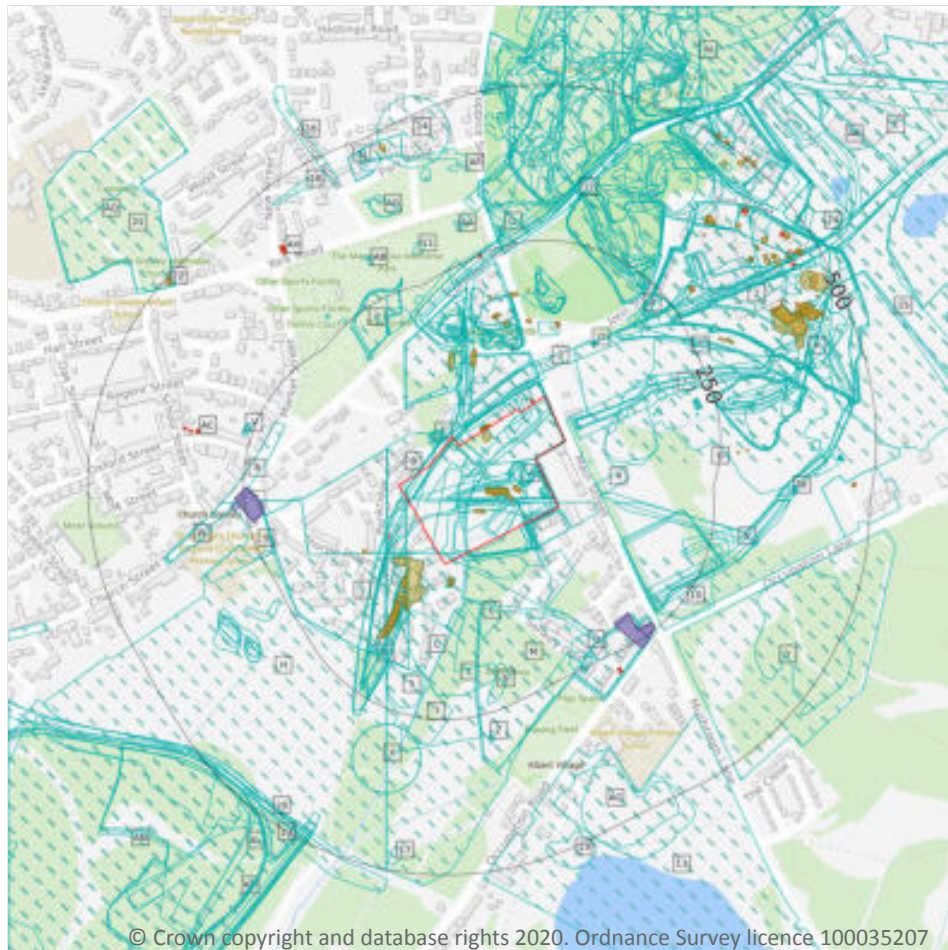
0

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
- Historical garages

2.1 Historical industrial land uses

Records within 500m

455

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 34**

ID	Location	Land Use	Date	Group ID
1	On site	Opencast Workings	1975	1577096
A	On site	Unspecified Ground Workings	1884	1727092
A	On site	Unspecified Tanks	1884	1622173



ID	Location	Land Use	Date	Group ID
A	On site	Encaustic Tile Works	1884	1684855
A	On site	Railway Sidings	1884	1746486
A	On site	Blue Brick and Tile Works	1885	1731187
A	On site	Unspecified Tank	1975	1735724
A	On site	Unspecified Tank	1975	1620980
A	On site	Unspecified Works	1975	1736456
A	On site	Unspecified Tank	1967	1620980
A	On site	Unspecified Tank	1967	1592155
A	On site	Unspecified Tank	1967	1735724
A	On site	Unspecified Tanks	1967	1580116
A	On site	Unspecified Works	1967	1736456
A	On site	Unspecified Works	1967	1644311
A	On site	Unspecified Ground Workings	1967	1682216
A	On site	Railway Sidings	1967	1685254
A	On site	Railway Sidings	1938	1646098
A	On site	Unspecified Tanks	1938	1646974
A	On site	Encaustic Tile Works	1938	1716001
A	On site	Unspecified Ground Workings	1938	1678295
A	On site	Unspecified Tanks	1900	1659203
A	On site	Encaustic Tile Works	1900	1671674
A	On site	Railway Sidings	1900	1623271
A	On site	Unspecified Pit	1900	1611207
A	On site	Unspecified Tanks	1882	1659203
A	On site	Encaustic Tile Works	1882	1702213
A	On site	Refuse Heap	1882	1596136
A	On site	Blue Brick and Tile Works	1882	1631586
A	On site	Railway Sidings	1925	1636341
A	On site	Unspecified Ground Workings	1925	1678294



ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Works	1925	1657680
A	On site	Unspecified Works	1900	1718620
A	On site	Railway Sidings	1950	1685254
A	On site	Unspecified Ground Workings	1950	1733359
A	On site	Tile Works	1950	1683540
A	On site	Unspecified Tanks	1950	1731896
A	On site	Brick and Tile Works	1882	1601428
A	On site	Tile Works	1925	1718498
A	On site	Railway Sidings	1925	1646922
A	On site	Unspecified Tanks	1925	1646974
A	On site	Railway Sidings	1925	1699063
A	On site	Unspecified Ground Workings	1925	1678295
A	On site	Unspecified Ground Workings	1925	1678295
B	On site	Refuse Heap	1975	1619289
B	On site	Railway Sidings	1882	1613869
C	On site	Unspecified Works	1967	1709955
D	On site	Railway Sidings	1938	1685254
D	On site	Railway Sidings	1900	1685254
D	On site	Unspecified Commercial/Industrial	1950	1691428
E	On site	Railway Sidings	1925	1635511
A	2m SE	Unspecified Works	1900	1649402
A	4m SE	Unspecified Ground Workings	1900	1729520
A	4m NW	Railway Sidings	1882	1678530
D	10m SW	Railway Sidings	1925	1685254
F	10m NW	Unspecified Pit	1938	1709897
F	10m NW	Unspecified Pit	1900	1669612
F	10m NW	Unspecified Pit	1925	1637592
F	10m NW	Unspecified Pit	1925	1729290



ID	Location	Land Use	Date	Group ID
E	12m N	Tramway Sidings	1884	1639233
F	12m NW	Unspecified Pit	1884	1734867
F	12m NW	Unspecified Pit	1950	1709897
G	14m NE	Opencast Workings	1975	1665492
D	14m SW	Fire Brick and Fire Clay Works	1925	1644310
F	16m NW	Unspecified Pit	1882	1734867
D	19m W	Refuse Heap	1974	1698491
H	19m W	Unspecified Works	1974	1690903
A	20m NW	Railway Sidings	1884	1749982
A	21m NW	Unspecified Works	1975	1736456
E	21m NE	Railway Sidings	1938	1617244
D	23m S	Sewage Tanks	1925	1659243
D	23m S	Sewage Tanks	1900	1659243
D	23m S	Sewage Tanks	1900	1726075
I	26m NE	Railway Sidings	1950	1655435
D	28m SW	Unspecified Tanks	1967	1738645
2	29m NE	Railway Sidings	1884	1735538
D	33m SW	Unspecified Tanks	1950	1718207
D	38m SW	Refuse Heap	1950	1596137
A	39m NW	Iron Foundry	1950	1734673
D	40m SW	Fire Brick and Clay Works	1884	1577772
J	42m SW	Fire Brick and Fire Clay Works	1938	1653146
J	42m SW	Fire Brick Works	1900	1727611
D	45m SW	Fire Brick Works	1900	1727611
A	46m NW	Unspecified Works	1967	1712988
3	46m N	Unspecified Heap	1975	1568153
D	47m SW	Unspecified Tanks	1950	1691513
D	56m SW	Sewage Tanks	1925	1575706



ID	Location	Land Use	Date	Group ID
A	57m NW	Iron Foundry	1884	1714464
D	62m SW	Railway Sidings	1884	1668658
I	63m E	Unspecified Ground Workings	1967	1632904
A	64m NW	Iron Foundry	1925	1621193
I	65m E	Refuse Heap	1950	1596187
K	69m E	Tramway Sidings	1950	1685721
D	69m SW	Unspecified Tanks	1884	1706491
L	71m SE	Unspecified Heap	1967	1568152
4	71m NE	Bakery	1967	1575351
D	71m SW	Unspecified Commercial/Industrial	1967	1744157
D	71m SW	Fire Brick and Fire Clay Works	1950	1692885
A	72m N	Unspecified Commercial/Industrial	1925	1630873
D	75m SW	Unspecified Tanks	1938	1624480
C	76m S	Railway Sidings	1967	1623270
L	76m S	Cuttings	1967	1561425
A	78m NW	Iron Foundry	1938	1617536
A	78m NW	Unspecified Commercial/Industrial	1900	1701339
D	81m SW	Unspecified Tanks	1925	1642545
M	83m SE	Clay Mine	1950	1626387
A	85m NW	Unspecified Heap	1950	1749775
A	86m NW	Ground Workings and Heap	1884	1599113
A	88m NW	Unspecified Heap	1925	1698784
A	88m NW	Unspecified Heap	1925	1698784
D	88m SW	Unspecified Tanks	1900	1744290
A	88m NW	Unspecified Heap	1967	1623516
A	88m NW	Refuse Heap	1900	1654377
A	89m NW	Unspecified Heap	1938	1622867
M	90m SE	Clay Mine	1925	1664273



ID	Location	Land Use	Date	Group ID
N	91m E	Tramway Sidings	1925	1640500
D	91m SW	Unspecified Tank	1900	1592133
A	97m N	Potteries	1884	1612131
A	100m N	Unspecified Shaft	1967	1578935
A	106m N	Unspecified Tanks	1884	1675979
A	107m N	Refuse Heap	1925	1685159
A	107m N	Refuse Heap	1925	1685159
A	107m N	Refuse Heap	1938	1630771
D	108m SW	Unspecified Tanks	1967	1638804
D	108m SW	Unspecified Tanks	1950	1699053
A	109m N	Unspecified Tanks	1938	1731604
A	109m N	Unspecified Tanks	1900	1673325
A	109m N	Unspecified Tanks	1925	1731604
O	113m NE	Junction Station	1925	1577214
N	113m SE	Clay Mine	1900	1726027
D	113m SW	Unspecified Tank	1900	1592132
O	114m NE	Railway Building	1938	1584231
N	114m SE	Clay Mine	1950	1669433
N	117m SE	Clay Mine	1925	1669433
A	119m NW	Unspecified Pit	1938	1747010
A	119m N	Unspecified Pit	1925	1748352
A	119m N	Unspecified Pit	1925	1748352
A	123m NW	Unspecified Shaft	1967	1578936
A	123m N	Flint Mill	1884	1697238
A	124m N	Unspecified Mill	1967	1726874
A	124m N	Flint Mill	1950	1628344
A	124m NW	Flint Mill	1925	1748375
A	124m N	Unspecified Mill	1938	1656915



ID	Location	Land Use	Date	Group ID
A	124m N	Unspecified Mill	1900	1630422
A	125m NW	Unspecified Tank	1925	1690427
A	126m NW	Refuse Heap	1882	1596133
A	126m NW	Unspecified Tank	1938	1739703
A	126m NW	Unspecified Tank	1900	1719345
A	127m NW	Chimney	1967	1605968
A	127m NW	Refuse Heap	1882	1596135
D	129m SW	Unspecified Tanks	1967	1673220
A	133m N	Unspecified Ground Workings	1884	1564773
A	134m NW	Clay Mill	1882	1612275
E	134m NE	Railway Sidings	1882	1613868
A	135m N	Refuse Heap	1925	1675316
A	135m N	Refuse Heap	1925	1675316
A	135m N	Refuse Heap	1938	1701221
A	135m N	Unspecified Heap	1950	1568155
E	136m NW	Tramway Sidings	1925	1673855
A	137m N	Unspecified Heaps	1967	1599379
A	137m NW	Unspecified Disused Shafts	1967	1605882
A	140m NW	Refuse Heap	1900	1596134
I	143m NE	Old Clay Shaft	1882	1571049
A	147m NW	Unspecified Heap	1950	1680777
I	147m E	Old Clay Shafts	1882	1586998
A	148m NW	Unspecified Heap	1884	1683784
A	148m NW	Unspecified Heap	1925	1652211
A	148m NW	Unspecified Heap	1925	1652211
E	150m NE	Railway Sidings	1900	1645807
I	153m E	Unspecified Old Shafts	1938	1560143
A	157m NW	Unspecified Heap	1967	1639419

ID	Location	Land Use	Date	Group ID
I	158m NE	Refuse Heap	1882	1596186
A	162m N	Refuse Heap	1925	1718860
A	162m N	Refuse Heap	1925	1718860
I	162m NE	Unspecified Pit	1950	1611211
I	164m NE	Old Clay Shafts	1882	1586997
5	166m S	Unspecified Ground Workings	1967	1564766
D	166m SW	Refuse Heap	1950	1619470
D	175m SW	Refuse Heap	1925	1617660
D	175m SW	Refuse Heap	1925	1617660
E	179m NE	Potteries	1950	1721312
E	179m NE	Railway Sidings	1950	1745669
E	180m NE	Unspecified Works	1967	1734872
P	181m NW	Unspecified Pit	1950	1611204
6	181m SE	Unspecified Pit	1967	1611208
P	183m NW	Unspecified Ground Workings	1925	1711827
P	183m NW	Unspecified Ground Workings	1925	1711827
P	184m NW	Unspecified Ground Workings	1938	1622499
E	192m NE	Ground Workings and Heap	1884	1599114
E	193m NE	Unspecified Ground Workings	1950	1654050
P	193m NW	Unspecified Heap	1950	1568156
N	195m SE	Tramway Sidings	1900	1640356
E	197m NE	Unspecified Ground Workings	1925	1741151
E	197m NE	Unspecified Ground Workings	1925	1741151
E	198m NE	Unspecified Works	1975	1696191
7	199m S	Unspecified Ground Workings	1967	1564763
E	199m NE	Unspecified Ground Workings	1938	1728735
Q	201m SE	Unspecified Heap	1967	1568147
R	203m NE	Potteries	1884	1698189



ID	Location	Land Use	Date	Group ID
E	205m NE	Potteries	1925	1666903
8	206m NW	Railway Sidings	1950	1700353
Q	208m SE	Clay Mine	1900	1721975
N	209m E	Clay Mine	1900	1649825
Q	209m SE	Clay Mine	1900	1697801
R	211m NE	Refuse Heap	1882	1596181
N	212m SE	Tramway Sidings	1900	1640356
I	215m E	Old Clay Shafts	1882	1586996
N	215m E	Tramway Sidings	1900	1727074
I	215m E	Unspecified Old Shafts	1950	1630846
I	216m E	Old Shafts	1884	1613036
I	217m E	Unspecified Old Shafts	1925	1674336
I	217m E	Unspecified Old Shafts	1925	1624329
I	217m E	Unspecified Old Shafts	1950	1728467
E	218m NE	Railway Sidings	1967	1657574
I	218m E	Unspecified Old Shafts	1925	1637662
I	218m E	Unspecified Old Shafts	1925	1640767
I	219m E	Unspecified Old Shafts	1938	1617042
9	219m W	Unspecified Depot	1989	1583303
E	220m NE	Unspecified Commercial/Industrial	1884	1562702
P	221m N	Old Clay Shaft	1882	1571051
S	221m W	Garage	1989	1747277
S	221m W	Garage	1974	1630799
S	221m W	Garage	1967	1630799
E	222m NE	Refuse Heap	1882	1692884
E	225m NW	Tram Sidings	1950	1579651
10	225m SE	Clay Mine	1900	1662553
Q	226m SE	Garage	1967	1613444



ID	Location	Land Use	Date	Group ID
Q	228m SE	Refuse Heap	1925	1596138
E	229m NE	Railway Sidings	1938	1705608
E	231m NE	Unspecified Pits	1900	1577038
Q	232m SE	Clay Mine	1900	1667977
E	233m NE	Pool Works	1884	1652307
E	233m NE	Railway Sidings	1950	1645678
E	234m NE	Fire Brick and Sanitary Pipe Works	1882	1579662
E	235m NE	Pool Works	1925	1698101
E	235m NE	Unspecified Works	1967	1704529
E	235m NE	Pool Works	1950	1615351
E	236m NE	Pool Works	1900	1652307
E	236m NE	Railway Sidings	1925	1678469
E	237m NE	Unspecified Works	1938	1734484
E	241m NE	Potteries	1938	1666903
E	241m NE	Potteries	1900	1708883
E	241m NE	Potteries	1882	1708883
T	242m NE	Refuse Heap	1882	1596185
Q	243m SE	Engine House	1950	1633861
U	245m N	Smithy	1938	1707424
U	245m N	Smithy	1900	1649409
K	246m E	Unspecified Ground Workings	1884	1713574
E	246m N	Unspecified Works	1950	1732441
K	247m E	Unspecified Pit	1950	1618629
K	247m E	Unspecified Pit	1925	1717348
K	247m E	Unspecified Pit	1925	1717348
K	248m E	Unspecified Pit	1938	1735688
Q	248m SE	Engine House	1925	1633861
T	251m NE	Old Clay Shaft	1882	1571050

ID	Location	Land Use	Date	Group ID
K	252m E	Tram Sidings	1950	1579652
P	253m NW	Unspecified Shafts	1882	1574253
V	255m W	Smithy	1950	1717322
V	256m W	Smithy	1938	1717322
V	257m W	Smithy	1925	1632290
W	260m W	Railway Sidings	1938	1661797
H	263m SW	Unspecified Ground Workings	1967	1564821
E	263m N	Cuttings	1925	1561426
U	265m N	Smithy	1950	1623849
U	266m N	Smithy	1884	1706308
U	268m N	Smithy	1925	1745182
E	268m N	Unspecified Works	1884	1740870
X	272m S	Unspecified Hole	1938	1678145
X	272m S	Unspecified Hole	1900	1658163
Y	274m SE	Refuse Heap	1975	1596184
P	275m NW	Unspecified Shafts	1882	1574252
E	276m NE	Unspecified Heap	1938	1711581
E	278m N	Unspecified Drifts	1967	1601423
Z	280m S	Pumping House	1950	1715697
Z	286m S	Pumping House	1925	1715697
K	292m E	Unspecified Pits	1900	1577042
11	294m NW	Refuse Heap	1882	1596129
E	297m NE	Unspecified Heap	1967	1725066
E	298m N	Unspecified Pit	1967	1611210
AA	298m NW	Pumping Shaft	1882	1579673
AA	300m NW	Refuse Heap	1882	1596132
E	303m NE	Old Clay Shaft	1882	1571052
K	305m E	Unspecified Old Shafts	1938	1560142



ID	Location	Land Use	Date	Group ID
AB	305m NW	Unspecified Shafts	1882	1574244
E	306m N	Unspecified Works	1925	1631925
E	310m N	Unspecified Works	1938	1668363
E	310m N	Brick Works	1900	1583727
E	310m N	Fire Brick and Terracotta Works	1882	1613090
E	310m N	Unspecified Ground Workings	1938	1679731
E	310m N	Unspecified Ground Workings	1884	1681553
E	310m N	Unspecified Ground Workings	1950	1671593
W	311m W	Railway Sidings	1950	1673370
E	311m N	Unspecified Ground Workings	1925	1730738
E	311m N	Unspecified Ground Workings	1925	1730738
12	311m N	Tunnel	1925	1588944
AB	314m NW	Unspecified Shafts	1882	1574245
N	314m E	Engine House	1950	1743380
N	314m E	Engine House	1925	1743380
E	316m N	Railway Sidings	1882	1674314
AB	318m NW	Unspecified Shafts	1882	1574246
H	320m SW	Clay Pit	1884	1659966
H	323m SW	Refuse Heap	1938	1675293
H	326m SW	Refuse Heap	1950	1675293
H	330m SW	Refuse Heap	1925	1636355
H	330m SW	Refuse Heap	1925	1636355
H	335m SW	Unspecified Pit	1967	1611206
E	336m NE	Unspecified Holes	1967	1685061
H	340m SW	Clay Pit	1938	1739781
H	341m SW	Clay Pit	1950	1645514
E	345m N	Unspecified Heap	1967	1568139
H	345m SW	Clay Pit	1925	1722323



ID	Location	Land Use	Date	Group ID
E	347m N	Unspecified Ground Workings	1884	1720275
E	348m NE	Unspecified Holes	1882	1739598
E	349m N	Refuse Heap	1950	1657278
Y	352m SE	Unspecified Ground Workings	1967	1564765
E	353m NE	Unspecified Holes	1900	1739598
E	356m NE	Unspecified Holes	1938	1741225
E	359m NE	Refuse Heap	1925	1658495
E	359m NE	Refuse Heap	1925	1658495
K	359m E	Refuse Heap	1882	1596183
13	361m SE	Unspecified Workings	1975	1587987
E	364m N	Refuse Heap	1900	1713111
AD	368m NW	Unspecified Pit	1900	1675237
AE	368m E	Unspecified Disused Shaft	1967	1578597
AD	371m N	Unspecified Pit	1882	1675237
E	371m N	Refuse Heap	1900	1621259
E	371m N	Refuse Heap	1882	1676891
AE	373m E	Old Shafts	1884	1613033
AE	374m E	Unspecified Old Shafts	1950	1641192
AE	375m E	Unspecified Old Shafts	1925	1733105
AE	375m E	Unspecified Old Shafts	1925	1733105
E	378m NE	Refuse Heap	1882	1596182
E	379m NE	Unspecified Tanks	1967	1725945
AF	384m N	Unspecified Old Shaft	1900	1571822
AG	385m SE	Unspecified Pit	1967	1673666
E	387m N	Unspecified Ground Workings	1925	1708322
E	387m N	Unspecified Ground Workings	1925	1700456
E	388m NE	Unspecified Tanks	1884	1626848
AF	389m N	Refuse Heap	1882	1596131



ID	Location	Land Use	Date	Group ID
E	389m NE	Unspecified Tanks	1950	1737842
E	390m NE	Unspecified Tanks	1882	1645822
E	392m NE	Unspecified Tanks	1925	1681856
E	392m NE	Unspecified Tank	1884	1724168
E	392m N	Unspecified Heap	1967	1568154
E	392m NE	Unspecified Tanks	1938	1677834
E	392m NE	Unspecified Tanks	1900	1626848
AF	393m NW	Refuse Heap	1882	1596130
E	393m NE	Unspecified Tanks	1950	1614497
E	394m N	Shaft	1884	1583088
AE	395m E	Old Clay Shafts	1900	1586995
E	395m NE	Unspecified Tank	1925	1618454
E	396m NE	Unspecified Tank	1938	1618454
E	396m NE	Unspecified Tank	1900	1650264
AF	396m NW	Pumping Shaft	1882	1579674
AE	397m E	Refuse Heap	1900	1596180
AG	401m SE	Unspecified Pit	1950	1653603
E	402m NE	Unspecified Works	1967	1696191
E	402m NE	Unspecified Tanks	1882	1633442
AD	402m N	Unspecified Shaft	1882	1578938
AE	403m E	Pumping Shaft	1882	1579672
E	405m E	Unspecified Heap	1925	1699853
E	405m E	Unspecified Heap	1925	1699853
E	406m E	Unspecified Heap	1950	1724495
AE	408m E	Refuse Heap	1882	1596179
E	409m E	Refuse Heap	1882	1633768
E	411m E	Refuse Heap	1900	1633768
E	411m NE	Unspecified Holes	1950	1743660



ID	Location	Land Use	Date	Group ID
14	417m NW	Pottery	1882	1703162
AE	420m E	Unspecified Works	1975	1598159
E	420m NE	Unspecified Tank	1882	1592146
AI	424m N	Colliery	1925	1703223
AI	424m N	Colliery	1925	1683840
E	424m NE	Refuse Heap	1925	1653233
E	424m NE	Refuse Heap	1925	1653233
E	431m NE	Refuse Heap	1900	1738365
E	431m NE	Refuse Heap	1882	1738365
E	432m N	Unspecified Ground Workings	1900	1681553
15	438m E	Opencast Workings	1975	1665492
AE	440m E	Old Clay Shafts	1900	1587002
AE	440m E	Old Clay Shaft	1882	1571053
AE	440m E	Old Shafts	1884	1613037
AE	440m E	Unspecified Old Shafts	1938	1643972
AJ	440m N	Unspecified Works	1989	1618597
AJ	440m N	Unspecified Works	1974	1677597
AE	440m E	Unspecified Disused Shaft	1967	1578595
AE	441m E	Unspecified Old Shafts	1950	1643972
E	442m N	Unspecified Ground Workings	1925	1670802
E	442m N	Unspecified Ground Workings	1925	1670802
E	443m N	Unspecified Ground Workings	1975	1614988
AE	443m E	Unspecified Old Shafts	1925	1643972
AE	443m E	Unspecified Old Shafts	1925	1643972
E	443m NE	Unspecified Works	1975	1700998
E	443m NE	Potteries	1950	1655668
E	444m N	Refuse Heap	1938	1615450
E	446m N	Unspecified Ground Workings	1884	1725427



ID	Location	Land Use	Date	Group ID
16	447m NW	Railway Sidings	1950	1560711
E	447m NE	Potteries	1900	1683300
AJ	448m NW	Pottery	1900	1660285
AJ	448m NW	Pottery	1882	1703162
AI	448m N	Colliery	1884	1656503
E	448m NE	Refuse Heap	1882	1713623
AK	448m NE	Brick Yard	1882	1602044
AI	448m N	Unspecified Mine	1967	1611702
AK	448m N	Railway Sidings	1967	1741714
E	450m NE	Potteries	1925	1620001
E	451m NE	Unspecified Works	1967	1718818
E	451m NE	Potteries	1938	1663536
AL	451m SW	Mineral Railway Sidings	1938	1645848
AI	453m N	Refuse Heap	1900	1676891
E	454m N	Unspecified Pit	1950	1611199
E	454m NE	Unspecified Commercial/Industrial	1884	1562701
E	458m NE	Refuse Heap	1900	1713623
17	460m S	Unspecified Pit	1967	1611205
18	460m NW	Unspecified Pit	1882	1611201
E	462m NE	Unspecified Holes	1975	1560214
E	464m N	Refuse Heap	1950	1723292
E	465m NE	Potteries	1884	1733125
E	465m NE	Unspecified Tank	1882	1592141
AM	467m SW	Railway Sidings	1925	1613815
E	468m N	Ground Workings and Refuse Heap	1884	1576147
E	468m N	Refuse Heap	1925	1713712
E	468m N	Refuse Heap	1925	1713712
E	468m NE	Unspecified Tanks	1882	1580117



ID	Location	Land Use	Date	Group ID
E	470m NE	Unspecified Pit	1950	1611215
AN	473m SW	Unspecified Works	1967	1669290
19	478m SE	Unspecified Pit	1967	1611209
AL	478m SW	Railway Sidings	1967	1709479
AL	478m SW	Mineral Railway Sidings	1950	1718912
20	480m SW	Mineral Railway Sidings	1884	1652952
AN	480m SW	Refuse Heaps	1974	1573236
AM	481m SW	Railway Sidings	1900	1726169
E	481m N	Refuse Heap	1900	1642998
AO	481m NW	Cemetery	1989	1729107
AO	481m NW	Cemetery	1974	1717378
AK	482m NE	Unspecified Mine	1967	1611703
AM	482m SW	Railway Sidings	1882	1635456
AK	482m NE	Unspecified Works	1884	1637816
21	482m NW	Cemetery	1950	1666978
23	487m SW	Mineral Railway Sidings	1925	1645848
AK	487m NE	Unspecified Works	1925	1669539
AN	488m SW	Unspecified Disused Workings	1989	1612002
AK	488m NE	Unspecified Works	1938	1684477
AK	488m NE	Unspecified Works	1900	1637816
AK	488m NE	Unspecified Works	1950	1680858
AL	488m SW	Railway Works	1938	1695838
AN	491m SW	Railway Works	1950	1695838
AM	491m SW	Sanitary Pipe Works	1900	1682711
AL	491m SW	Sanitary Pipe Works	1884	1660241
E	493m NE	Unspecified Tanks	1882	1580118
AK	494m NE	Railway Sidings	1950	1635472
E	494m N	Refuse Heap	1882	1596252



ID	Location	Land Use	Date	Group ID
E	494m N	Railway Sidings	1975	1685912
E	495m N	Unspecified Ground Workings	1900	1564774
AL	498m SW	Sanitary Pipe Works	1925	1734936
24	499m NE	Refuse Heap	1882	1706239

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	119
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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 34**

ID	Location	Land Use	Date	Group ID
A	On site	Tanks	1923	273883
A	On site	Tanks	1937	273883
A	On site	Tanks	1959	259810
A	On site	Tanks	1959	276991
A	On site	Tanks	1974	259705
A	On site	Tanks	1974	279326
A	On site	Tanks	1882	259808
A	On site	Unspecified Tank	1882	251438
A	On site	Tanks	1883	276418
A	On site	Tanks	1901	276418
A	On site	Tanks	1901	276418
A	0m NW	Unspecified Tank	1993	272303
A	1m NW	Unspecified Tank	1985	268421
A	1m NW	Unspecified Tank	1995	272303
A	1m NW	Unspecified Tank	1995	272303
A	1m NW	Unspecified Tank	1999	267682



ID	Location	Land Use	Date	Group ID
A	2m NW	Unspecified Tank	1990	263919
A	2m NW	Unspecified Tank	1990	263919
D	25m S	Sewerage Tanks	1883	259415
D	25m S	Sewage Tanks	1901	266155
D	25m S	Sewage Tanks	1901	266155
D	25m S	Sewage Tanks	1923	266155
D	27m SW	Tanks	1959	274864
D	63m SW	Tanks	1937	277269
D	80m SW	Unspecified Tank	1923	251429
D	82m SW	Tanks	1937	271191
D	95m SW	Tanks	1937	274110
D	96m SW	Tanks	1923	272850
A	96m NW	Tanks	1901	267731
A	96m NW	Tanks	1901	267731
D	96m SW	Tanks	1901	277898
D	96m SW	Tanks	1901	277898
D	97m W	Unspecified Tank	1959	251428
D	109m SW	Tanks	1959	271223
A	110m N	Tanks	1923	259811
A	112m N	Unspecified Tank	1990	264679
A	112m N	Unspecified Tank	1990	264679
A	113m N	Tanks	1993	279420
A	114m N	Tanks	1985	264875
A	114m N	Unspecified Tank	1974	266140
A	118m N	Tanks	1985	272689
A	120m N	Unspecified Tank	1901	274663
A	120m N	Unspecified Tank	1901	274663
A	128m NW	Unspecified Tank	1923	251439

ID	Location	Land Use	Date	Group ID
D	139m SW	Tanks	1959	271223
A	148m NW	Tanks	1959	266922
A	151m NW	Tanks	1923	272075
A	151m NW	Tanks	1937	272075
A	167m N	Tanks	1901	270979
A	167m N	Tanks	1901	270979
A	171m N	Tanks	1901	275219
A	171m N	Tanks	1901	275219
A	178m NW	Tanks	1923	259809
G	277m E	Unspecified Tank	1882	251443
E	287m NE	Unspecified Tank	1990	277693
E	287m NE	Unspecified Tank	1990	277693
E	291m NE	Unspecified Tank	1974	251424
G	291m E	Unspecified Tank	1883	251442
T	291m NE	Unspecified Tank	1974	251440
E	361m NE	Unspecified Tank	1923	251422
E	376m N	Unspecified Tank	1923	251421
E	378m NE	Tanks	1990	273200
E	378m NE	Tanks	1990	273200
E	380m NE	Tanks	1959	278833
E	382m NE	Tanks	1974	264413
E	387m NE	Unspecified Tank	1985	273300
E	387m NE	Unspecified Tank	1993	273300
E	390m NE	Tanks	1937	276041
E	391m NE	Tanks	1923	271831
E	394m NE	Unspecified Tank	1937	264671
E	394m NE	Unspecified Tank	1923	264671
E	407m NE	Unspecified Tank	1985	269262

ID	Location	Land Use	Date	Group ID
E	407m NE	Unspecified Tank	1993	269262
E	409m NE	Tanks	1923	259764
E	414m NE	Tanks	1882	259763
E	415m NE	Unspecified Tank	1985	271985
E	416m NE	Unspecified Tank	1993	271985
E	426m NE	Tanks	1901	263310
E	426m NE	Tanks	1901	263310
E	426m NE	Unspecified Tank	1882	251441
E	428m NE	Unspecified Tank	1901	270899
E	428m NE	Unspecified Tank	1901	270899
E	428m NE	Tanks	1883	259762
E	429m NE	Unspecified Tank	1923	271573
E	429m NE	Unspecified Tank	1937	271573
E	432m NE	Tanks	1882	267172
E	441m NE	Tanks	1883	277244
E	447m NE	Tanks	1985	268492
E	447m NE	Tanks	1993	268492
E	448m NE	Unspecified Tank	1974	251604
E	449m NE	Unspecified Tank	1882	264562
E	462m NE	Unspecified Tank	1901	274071
E	462m NE	Unspecified Tank	1901	274071
E	462m NE	Unspecified Tank	1923	251414
E	463m NE	Tanks	1990	278222
E	463m NE	Tanks	1990	278222
E	464m NE	Unspecified Tank	1883	264562
E	466m NE	Tanks	1985	273507
AJ	466m NW	Tanks	1986	272896
E	466m NE	Tanks	1993	276532



ID	Location	Land Use	Date	Group ID
AJ	467m NW	Tanks	1995	272896
AJ	467m NW	Tanks	1993	272896
AJ	467m NW	Tanks	1995	272896
E	467m NE	Tanks	1974	278222
AE	467m E	Unspecified Tank	1990	273039
AE	467m E	Unspecified Tank	1990	273039
E	469m NE	Unspecified Tank	1923	251425
AE	469m E	Unspecified Tank	1974	275748
AE	470m E	Unspecified Tank	1993	275748
AJ	470m NW	Unspecified Tank	1901	251420
E	485m NE	Unspecified Tank	1882	251426
22	486m NW	Unspecified Tank	1959	251423
E	496m NE	Unspecified Tank	1901	265802
E	496m NE	Unspecified Tank	1901	265802
E	496m NE	Unspecified Tank	1883	251427
E	498m NE	Unspecified Tank	1901	275959
E	498m NE	Unspecified Tank	1901	275959
E	499m NE	Unspecified Tank	1901	275898
E	499m NE	Unspecified Tank	1901	275898

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

46

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 34**

ID	Location	Land Use	Date	Group ID
A	2m NW	Electricity Substation	1993	157713



ID	Location	Land Use	Date	Group ID
A	3m NW	Electricity Substation	1985	159138
A	4m NW	Electricity Substation	1990	159138
A	4m NW	Electricity Substation	1990	159138
D	54m SW	Electricity Substation	1999	147899
A	88m NW	Electricity Substation	1993	165299
A	90m NW	Electricity Substation	1985	159313
A	90m NW	Electricity Substation	1990	159313
A	90m NW	Electricity Substation	1990	159313
D	177m SW	Electricity Substation	1971	147898
U	245m NW	Gas Governor	1993	150518
U	247m NW	Gas Governor	1985	157271
U	248m NW	Gas Governor	1990	162432
U	248m NW	Gas Governor	1990	162432
U	248m NW	Gas Governor	1974	157272
Q	274m SE	Electricity Substation	1990	162057
Q	274m SE	Electricity Substation	1990	162057
Q	279m SE	Electricity Substation	1995	165350
Q	279m SE	Electricity Substation	1995	165350
Q	279m SE	Electricity Substation	1999	165350
AC	331m W	Electricity Substation	1986	151587
AC	332m W	Electricity Substation	1996	151587
AC	332m W	Electricity Substation	1995	151587
AC	332m W	Electricity Substation	1995	151587
AC	343m W	Electricity Substation	1971	147900
AC	352m W	Electricity Substation	1980	156919
AC	352m W	Electricity Substation	1980	156919
AH	398m NW	Electricity Substation	1986	153936
AH	404m NW	Electricity Substation	1995	160240



ID	Location	Land Use	Date	Group ID
AH	404m NW	Electricity Substation	1993	160240
AH	404m NW	Electricity Substation	1995	160240
AH	404m NW	Electricity Substation	1980	160310
AH	404m NW	Electricity Substation	1980	160310
AH	407m NW	Electricity Substation	1971	166018
E	432m NE	Electricity Substation	1990	154628
E	432m NE	Electricity Substation	1990	154628
E	433m NE	Electricity Substation	1985	154628
E	434m NE	Electricity Substation	1993	167391
E	436m NE	Electricity Substation	1974	167391
E	444m NE	Electricity Substation	1990	166209
E	444m NE	Electricity Substation	1990	166209
E	449m NE	Electricity Substation	1985	166437
E	449m NE	Electricity Substation	1993	166437
E	453m NE	Electricity Substation	1974	147903
E	457m NE	Electricity Substation	1985	155374
E	458m NE	Electricity Substation	1993	155374

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

13

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'.

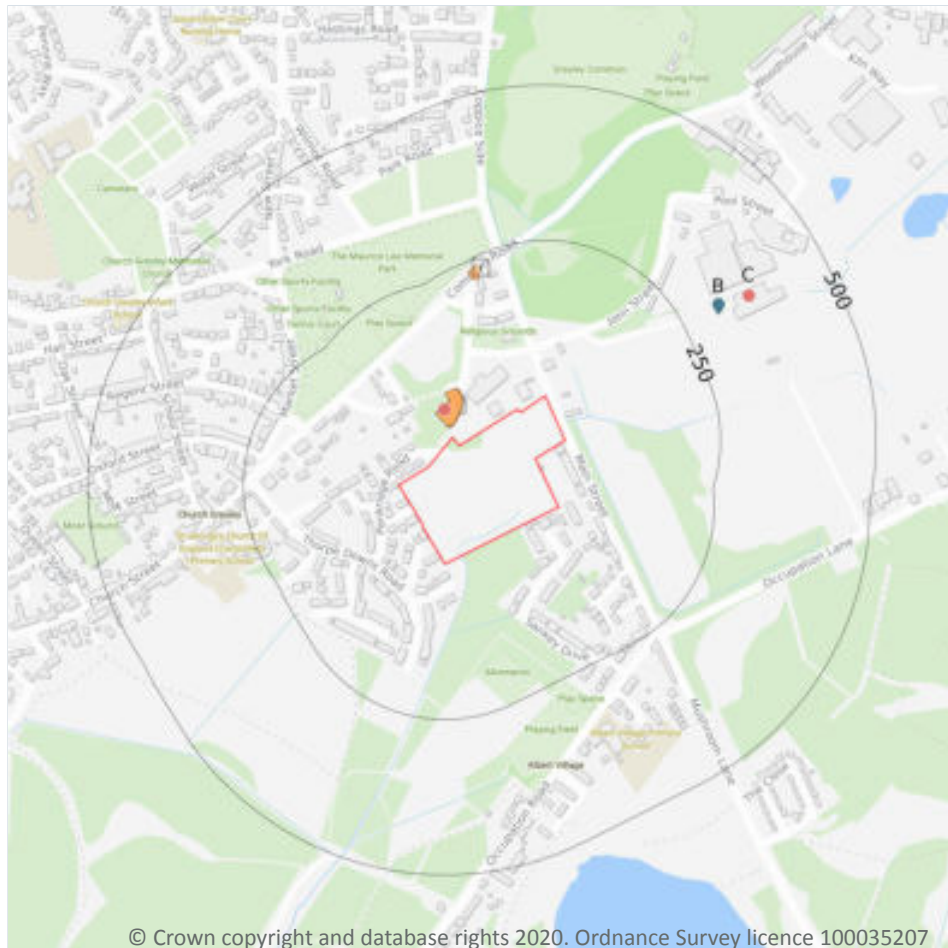
Features are displayed on the Past land use - un-grouped map on **page 34**

ID	Location	Land Use	Date	Group ID
Q	203m SE	Garage	1990	51677
Q	203m SE	Garage	1990	51677
Q	206m SE	Garage	1995	51183
Q	206m SE	Garage	1999	51183
Q	206m SE	Garage	1995	51183
S	222m W	Garage	1986	50635
S	222m W	Garage	1980	50524
S	224m W	Garage	1959	54234
S	224m W	Garage	1996	53676
S	224m W	Garage	1995	53676
S	224m W	Garage	1995	53676
S	224m W	Garage	1971	54234
Q	236m SE	Garage	1959	49891

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical waste sites
- Licensed waste sites
- 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

7

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

Features are displayed on the Waste and landfill map on **page 59**

ID	Location	Address	Further Details	Date
A	15m N	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1974
A	15m N	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1990
A	15m N	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1990

ID	Location	Address	Further Details	Date
A	15m N	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1989
A	18m N	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1993
A	19m N	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1984
1	216m NW	Site Address: N/A	Type of Site: Ground Workings and Refuse Heap Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1882

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

3.6 Licensed waste sites

Records within 500m

3

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

Features are displayed on the Waste and landfill map on **page 59**

ID	Location	Details		
B	312m NE	Site Name: Ensor Waste Transfer Facility Site Address: Ensor Waste Transfer Facility, Off John Street, Church Gresley, Swadlincote, Derbys, DE11 8EJ Correspondence Address: -	Type of Site: 75kte HCI Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ENS005 EPR reference: EA/EPR/AB3809UG/A001 Operator: Ensor Holdings Plc Waste Management licence No: 400905 Annual Tonnage: 74999	Issue Date: 02/01/2014 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
B	312m NE	Site Name: Ravensbourn Waste Transfer Facility Site Address: Ensor Waste Transfer Facility, Off John Street, Church Gresley, Swadlincote, Derbyshire, DE11 8EJ Correspondence Address: -	Type of Site: 75kte HCI Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: RAV009 EPR reference: EA/EPR/CB3703CB/T001 Operator: Ravensbourn Container Systems Limited Waste Management licence No: 400905 Annual Tonnage: 74999	Issue Date: 02/01/2014 Effective Date: 01/04/2015 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
B	312m NE	Site Name: Ravensbourn Waste Transfer Facility Site Address: Ensor Waste Transfer Facility, Off John Street, Church Gresley, Swadlincote, Derbyshire, DE11 8EJ Correspondence Address: -	Type of Site: 75kte HCI Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: RAV009 EPR reference: EA/EPR/CB3703CB/T001 Operator: Ravensbourn Limited Waste Management licence No: 400905 Annual Tonnage: 74999	Issue Date: 02/01/2014 Effective Date: 01/04/2015 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred

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

3.7 Waste exemptions

Records within 500m

5

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 59**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	46m N	Robin Hood Metals Ltd Robin Hood Place Swadlincote Derbyshire DE11 9NL	EPR/RF0732NT /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
A	46m N	Robin Hood Metals Ltd Robin Hood Place Swadlincote Derbyshire DE11 9NL	EPR/RF0732NT /A001	Treating waste exemption	Non-Agricultural Waste Only	Recovery of scrap metal

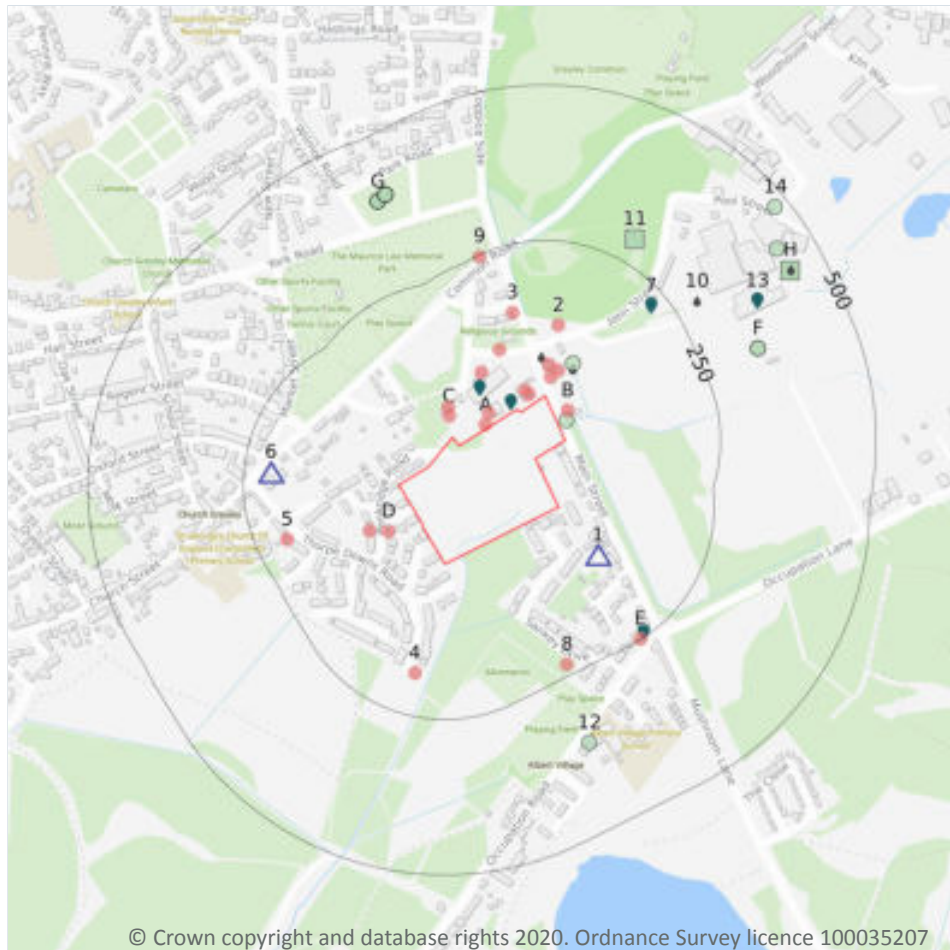


ID	Location	Site	Reference	Category	Sub-Category	Description
C	364m NE	Ensor Holdings Plc John STreet Swadlincote Derbyshire DE11 8EU	EPR/UH0273JK /A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting mixed waste
C	364m NE	Ensor Transfer Facility John STreet Swadlincote Derbyshire de11 8eu	EPR/YH0677YR /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
C	364m NE	Ensor Transfer Facility John STreet Swadlincote Derbyshire de11 8eu	EPR/YH0677YR /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place

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
- △ Current or recent petrol stations
- ◆ Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- List 2 Dangerous Substances
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

21

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 64**

ID	Location	Company	Address	Activity	Category
A	6m NW	Tank	Derbyshire, DE11	Tanks (Generic)	Industrial Features
A	17m NW	General Trailer Engineering	Albert Works, Bridge Street, Church Gresley, Swadlincote, Derbyshire, DE11 8EL	Lifting and Handling Equipment	Industrial Products
A	19m NW	Works	Derbyshire, DE11	Unspecified Works Or Factories	Industrial Features



ID	Location	Company	Address	Activity	Category
B	23m NE	Works	Derbyshire, DE11	Unspecified Works Or Factories	Industrial Features
A	26m NW	Works	Derbyshire, DE11	Unspecified Works Or Factories	Industrial Features
A	31m N	M & R Smith	1, Bridge Street, Church Gresley, Swadlincote, Derbyshire, DE11 8EL	Vehicle Repair, Testing and Servicing	Repair and Servicing
C	35m N	Scrap Yard	Derbyshire, DE11	Scrap Metal Merchants	Recycling Services
A	46m NE	Pumping Station	Derbyshire, DE11	Water Pumping Stations	Industrial Features
C	49m N	Robin Hood Metals Ltd	Robin Hood Place, Church Gresley, Swadlincote, Derbyshire, DE11 9NL	Scrap Metal Merchants	Recycling Services
A	50m N	K H Auto Centre	40, John Street, Church Gresley, Swadlincote, Derbyshire, DE11 8EJ	Vehicle Repair, Testing and Servicing	Repair and Servicing
D	53m SW	Electricity Sub Station	Derbyshire, DE11	Electrical Features	Infrastructure and Facilities
D	78m SW	Car Shine UK	7, Penkridge Road, Church Gresley, Swadlincote, Derbyshire, DE11 9FH	Vehicle Cleaning Services	Personal, Consumer and Other Services
A	81m NW	Works	Derbyshire, DE11	Unspecified Works Or Factories	Industrial Features
A	100m N	Electricity Sub Station	Derbyshire, DE11	Electrical Features	Infrastructure and Facilities
2	115m N	Tank	Derbyshire, DE11	Tanks (Generic)	Industrial Features
3	144m N	Electricity Sub Station	Derbyshire, DE11	Electrical Features	Infrastructure and Facilities
4	182m S	Electricity Sub Station	Derbyshire, DE11	Electrical Features	Infrastructure and Facilities
5	200m SW	UK Industrial Handrail Systems Ltd	2, Thorpe Downs Road, Church Gresley, Swadlincote, Derbyshire, DE11 9FB	General Construction Supplies	Industrial Products
8	232m SE	Electricity Sub Station	Leicestershire, DE11	Electrical Features	Infrastructure and Facilities
9	248m NW	Gas Governor Station	Derbyshire, DE11	Gas Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
E	249m SE	Fearns Garage	Main Street, Albert Village, Swadlincote, Leicestershire, DE11 8EN	Vehicle Repair, Testing and Servicing	Repair and Servicing

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

2

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 64**

ID	Location	Company	Address	LPG	Status
1	100m SE	UNBRANDED	Occupation Road, Albert Village, Swadlincote, Leicestershire, DE11 8EN	Not Applicable	Obsolete
6	207m W	OBSOLETE	Church Street, Church Gresley, Swadlincote, Derbyshire, DE11 9PN	Not Applicable	Obsolete

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

5

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.

Features are displayed on the Current industrial land use map on **page 64**

ID	Location	Address	Details	
A	14m NW	Tarmac Services Ltd (Lafarge Tarmac), 1 Bridge Street, Church Gresley, Swadlincote, Derbyshire, DE11 9HT	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
A	61m NW	Tarmac Ltd (Midlands Area), Bridge Street, Church Gresley, Derbyshire, DE11 8EL	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
7	223m NE	Sabine Brothers Limited, John Street, Church Gresley, Derbyshire, DE11 8EJ	Process: Non-ferrous Metal Foundry Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
E	241m SE	Fearns Garage, Occupation Road, Albert Village, Swadlincote, Derbyshire, DE11 8RN	Process: Unloading of Petrol into Storage at Service Stations Status: Historical Permit Permit Type: Part B	Enforcement: No enforcements notified Date of enforcement: No enforcements notified Comment: No enforcements notified
13	373m NE	Aggregate Industries Ltd, Occupation Lane, Woodville, DE11 8EU	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

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

5

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

Features are displayed on the Current industrial land use map on **page 64**

ID	Location	Address	Details	
A	61m NE	GIRDER BRIDGE PUMPING STATION	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: T/24/21870/O Permit Version: 1 Receiving Water: HOOBOROUGH BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 28/09/1992 Effective Date: 28/09/1992 Revocation Date: -
A	61m NE	CHURCH GRESLEY, SWADLINCOTE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: TSC3232 Permit Version: 1 Receiving Water: HOOBRO' BROOK	Status: VARIED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 12/08/2011
A	62m N	BRIDGE STREET, CHURCH GRESLEY, SWADLINCOTE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: DT/4939 Permit Version: 1 Receiving Water: HOOBOROUGH BROOK	Status: 1961 R(PP)A APPLICATION REFUSED Issue date: 29/05/1963 Effective Date: 29/05/1963 Revocation Date: 01/03/2001
10	287m NE	CHURCH GRESLEY, BURTON ON TRENT, STAFFORDSHIRE	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: T/24/22506/T Permit Version: 1 Receiving Water: HOOBOROUGH BROOK	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 29/06/1993 Effective Date: 29/06/1993 Revocation Date: 12/07/2006



ID	Location	Address	Details	
H	443m NE	PREMISES AT POOL STREET, CHURCH GRESLEY, BURTON ON TRENT, STAFFORDSHIRE	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: T/23/21142/T Permit Version: 1 Receiving Water: TRIB OF HOOBOROUGH BROOK	Status: REVOKED - UNSPECIFIED Issue date: 28/02/1992 Effective Date: 28/02/1992 Revocation Date: 14/04/2009

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	2
----------------------------	----------

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.

Features are displayed on the Current industrial land use map on **page 64**

ID	Location	Name	Status	Receiving Water	Authorised Substances
11	291m NE	T.g.green & Co. Ltd. Church Gresley	Not Active	Hooborough Brook	Lead, pH, Zinc
H	443m NE	Mason & Cash Ltd	Active	Hooborough Brook	pH, Zinc

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

17

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

Features are displayed on the Current industrial land use map on **page 64**

ID	Location	Details	
B	14m NE	Incident Date: 17/09/2001 Incident Identification: 31099 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
A	68m NE	Incident Date: 27/11/2002 Incident Identification: 123322 Pollutant: Inorganic Chemicals/Products Pollutant Description: Other Inorganic Chemical or Product	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
F	343m NE	Incident Date: 07/08/2018 Incident Identification: 1641597 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 2 (Significant)
F	343m NE	Incident Date: 07/08/2018 Incident Identification: 1641597 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 2 (Significant)
12	361m SE	Incident Date: 13/09/2002 Incident Identification: 112322 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
G	397m N	Incident Date: 28/01/2002 Incident Identification: 54911 Pollutant: Specific Waste Materials:Specific Waste Materials:Specific Waste Materials Pollutant Description: Household Waste:Vehicles and Vehicle Parts:Other Specific Waste Material	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)



ID	Location	Details	
G	397m N	Incident Date: 28/01/2002 Incident Identification: 54911 Pollutant: Specific Waste Materials Pollutant Description: Other Specific Waste Material	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
G	397m N	Incident Date: 28/01/2002 Incident Identification: 54911 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
G	397m N	Incident Date: 28/01/2002 Incident Identification: 54911 Pollutant: Specific Waste Materials Pollutant Description: Vehicles and Vehicle Parts	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
G	404m NW	Incident Date: 23/07/2001 Incident Identification: 18283 Pollutant: General Biodegradable Materials and Wastes:Specific Waste Materials:Specific Waste Materials:Specific Waste Materials Pollutant Description: Vegetable Cuttings and Deposits:Containers:Household Waste:Metal Wastes:Other Composites	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
G	404m NW	Incident Date: 23/07/2001 Incident Identification: 18283 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Vegetable Cuttings and Deposits	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
G	404m NW	Incident Date: 23/07/2001 Incident Identification: 18283 Pollutant: Specific Waste Materials Pollutant Description: Other Composites	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
G	404m NW	Incident Date: 23/07/2001 Incident Identification: 18283 Pollutant: Specific Waste Materials Pollutant Description: Containers	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
G	404m NW	Incident Date: 23/07/2001 Incident Identification: 18283 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
G	404m NW	Incident Date: 23/07/2001 Incident Identification: 18283 Pollutant: Specific Waste Materials Pollutant Description: Metal Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)



ID	Location	Details	
H	441m NE	Incident Date: 12/06/2003 Incident Identification: 165372 Pollutant: Contaminated Water Pollutant Description: Suspended Solids	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
14	479m NE	Incident Date: 27/03/2002 Incident Identification: 67072 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)

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

5.1 Superficial aquifer

Records within 500m

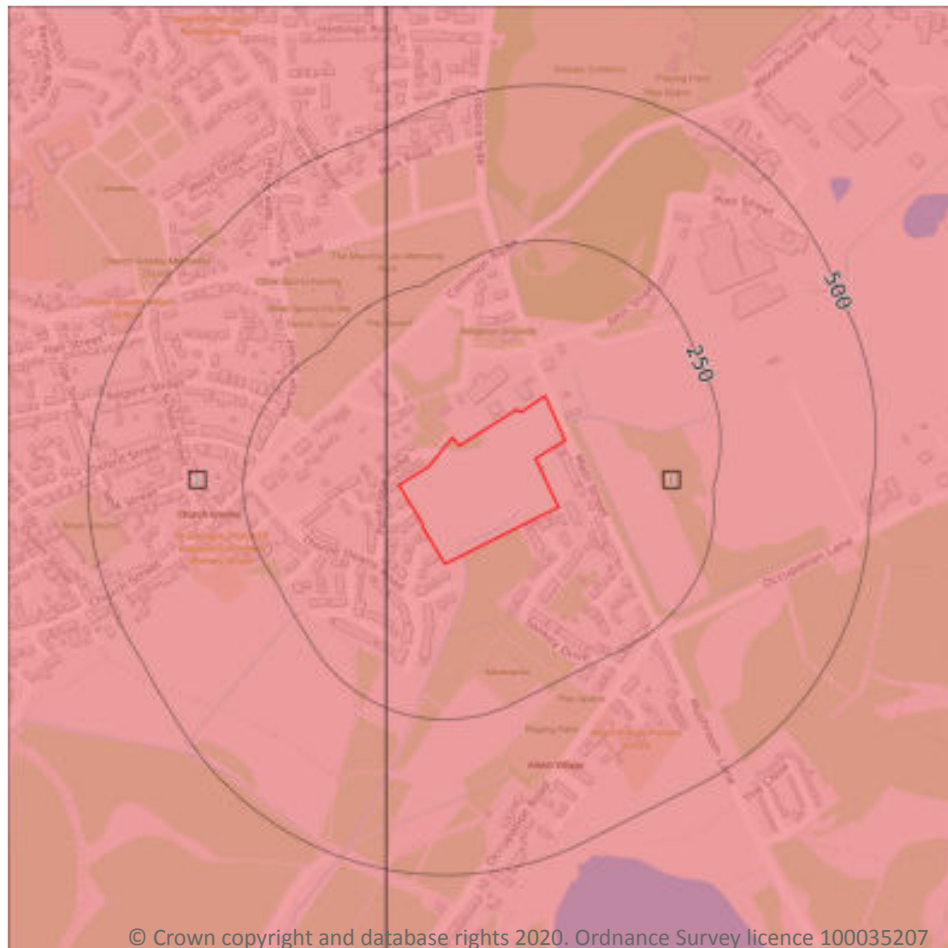
0

Aquifer status of groundwater held within superficial geology.

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

2

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 75**

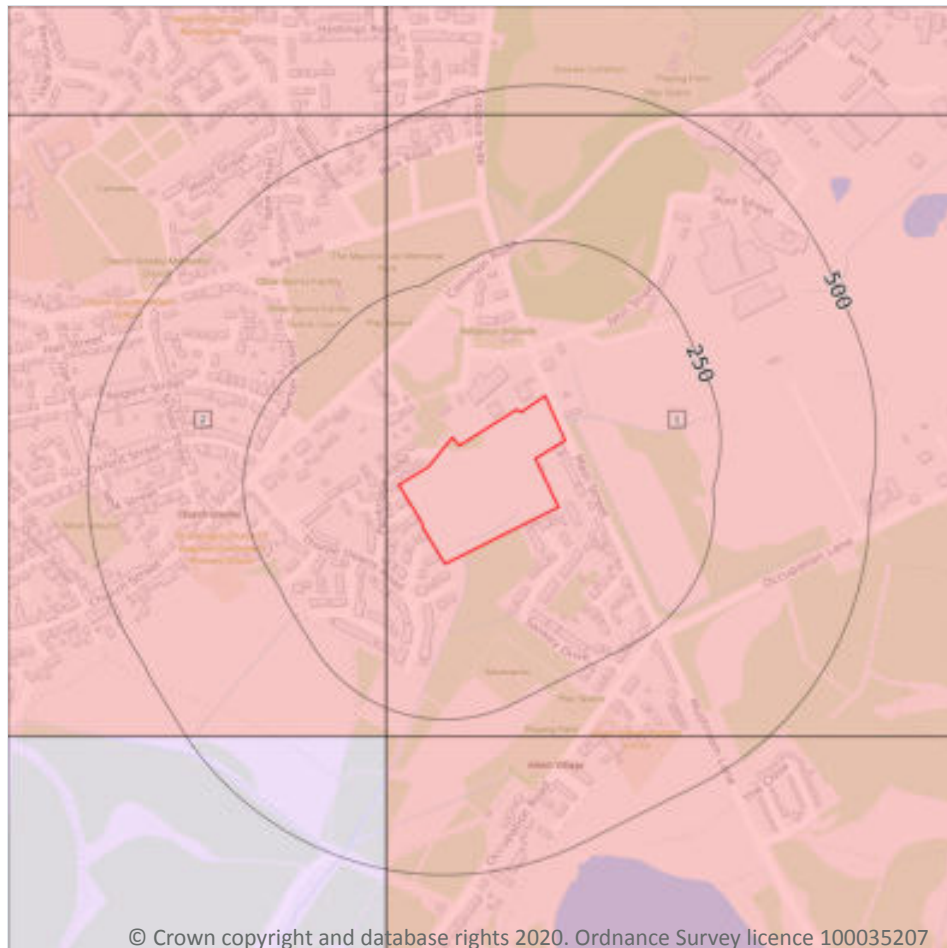
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	20m W	Secondary 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



— Site Outline

Search buffers in metres (m)

Superficial vulnerability

- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability

- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m

2

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 77**

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: 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
2	20m W	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

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 79**

ID	Location	Details	
1	587m NE	Status: Historical Licence No: 03/28/24/0085 Details: Process water Direct Source: Groundwater Midlands Region Point: LAGOON OFF WOODHOUSE STREET,WOODVILLE Data Type: Point Name: MIDLAND LEAD MANUFACTURERS Easting: 430740 Northing: 318880	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 28/05/1980 Expiry Date: - Issue No: 100 Version Start Date: 21/06/1994 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

1

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.

Features are displayed on the Abstractions and Source Protection Zones map on **page 79**

ID	Location	Details	
-	1577m S	Status: Historical Licence No: 03/28/23/0055 Details: Mineral Washing Direct Source: Surface Water Midlands Region Point: WORKINGS NR OVERSEAL - HOOBOROUGH BROOK Data Type: Point Name: NORTHERN STRIP MINING LTD Easting: 430100 Northing: 316700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 08/01/1976 Expiry Date: - Issue No: 100 Version Start Date: 08/01/1976 Version End Date: -

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

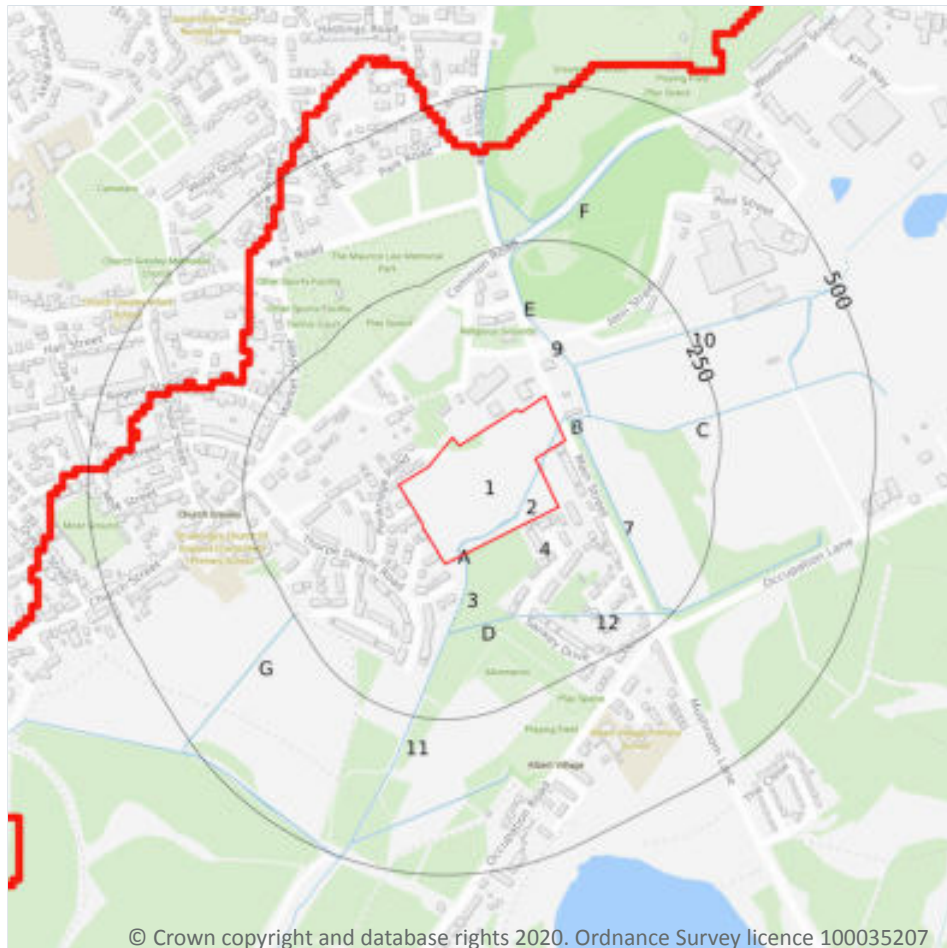
0

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

18

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

Features are displayed on the Hydrology map on **page 82**

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	12m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	26m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	27m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	51m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	51m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	52m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
9	65m NE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
10	65m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	109m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
11	111m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
12	123m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	134m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	178m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	249m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	8
----------------------------	----------

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.

Features are displayed on the Hydrology map on **page 82**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1
------------------------	----------

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 82**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
4	On site	River WB catchment	Hooborough Brook from Source to River Mease	GB104028046580	Mease 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

1

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 82**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1174m SW	River	Hooborough Brook from Source to River Mease	GB104028046580	Moderate	Good	Moderate	2016

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 82**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	On site	Tame Anker Mease - Coal Measures Swadlincote	GB40402G303600	Poor	Poor	Good	2015

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 Sea (RoFRaS)

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; 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).

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

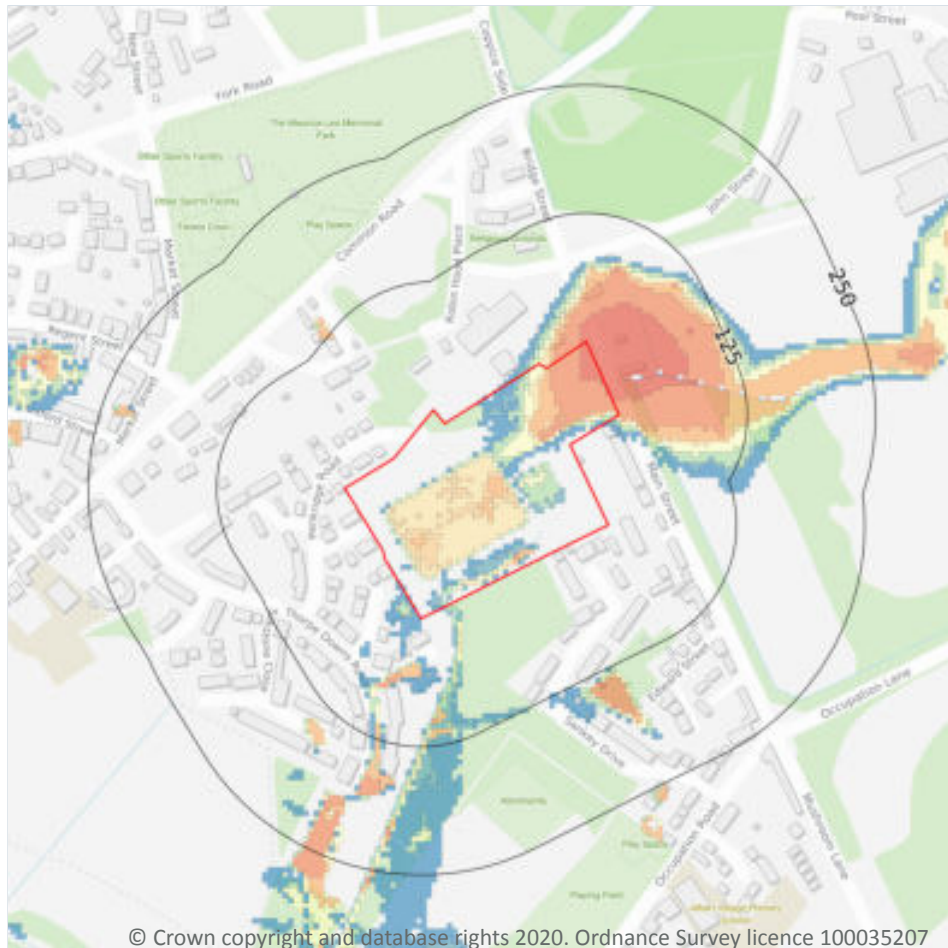
Records within 50m

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



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— Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site

1 in 30 year, Greater than 1.0m

Highest risk within 50m

1 in 30 year, Greater than 1.0m

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.

Features are displayed on the Surface water flooding map on **page 89**

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	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

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 91**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Designated Ancient Woodland

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**0**

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.

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 92**

ID	Location	Name	Woodland Type
1	1193m W	Hall 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

0

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

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

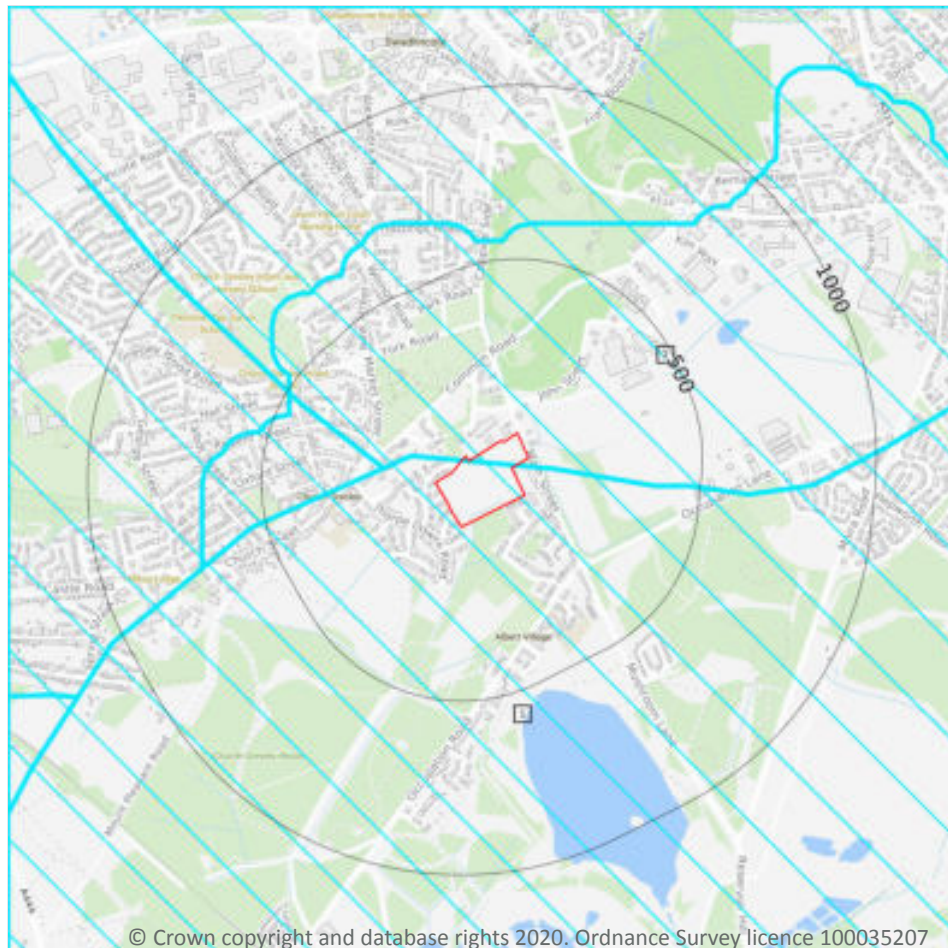
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	Burton	Groundwater	G34	Existing
On site	River Trent (source to confluence with Derwent)	Surface Water	S308	Changed

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

2

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 97**

ID	Location	Type of developments requiring consultation
1	On site	All applications - All Planning Applications - Except Householder Applications.

ID	Location	Type of developments requiring consultation
2	On site	Infrastructure - Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Oil & gas exploration/extraction. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t. 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 Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream (NB This does not include discharges to mains sewer which are unlikely to pose a risk at this location)

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0
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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

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

0

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.



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

11.7 Registered Parks and Gardens

Records within 250m

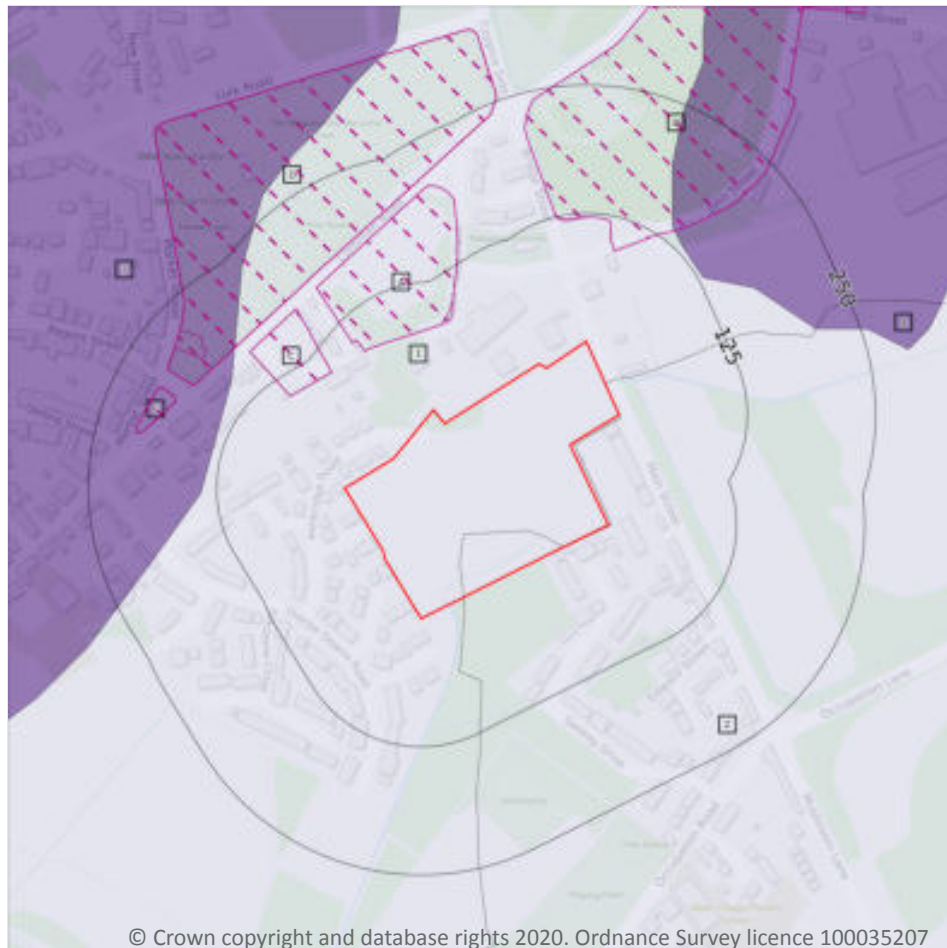
0

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 English Heritage, 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

12.1 Agricultural Land Classification

Records within 250m

4

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 101**

ID	Location	Classification	Description
1	On site	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.

ID	Location	Classification	Description
2	On site	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.
3	130m NE	Urban	-
4	210m NE	Urban	-

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

12

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.

Features are displayed on the Agricultural designations map on **page 101**

ID	Location	Name	Classification	Other relevant legislation
A	77m N	Pelsall North Common	Section 15 Land	S.193 - Urban Borough District
A	77m N	Land at Church Gresley	Section 4 Conclusive Registered Common Land	-
B	92m N	Pelsall North Common	Section 15 Land	S.193 - Urban Borough District
B	92m N	Land at Church Gresley	Section 4 Conclusive Registered Common Land	-
C	100m NW	Pelsall North Common	Section 15 Land	S.193 - Urban Borough District
C	100m NW	Land at Church Gresley	Section 4 Conclusive Registered Common Land	-
D	174m NW	Gresley Common	Section 15 Land	1899
D	174m NW	Pelsall North Common	Section 15 Land	S.193 - Urban Borough District
D	174m NW	Land at Church Gresley	Section 4 Conclusive Registered Common Land	-
E	186m NW	Gresley Common	Section 15 Land	1899
E	186m NW	Pelsall North Common	Section 15 Land	S.193 - Urban Borough District
E	186m NW	Land at Church Gresley	Section 4 Conclusive Registered Common Land	-

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

0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

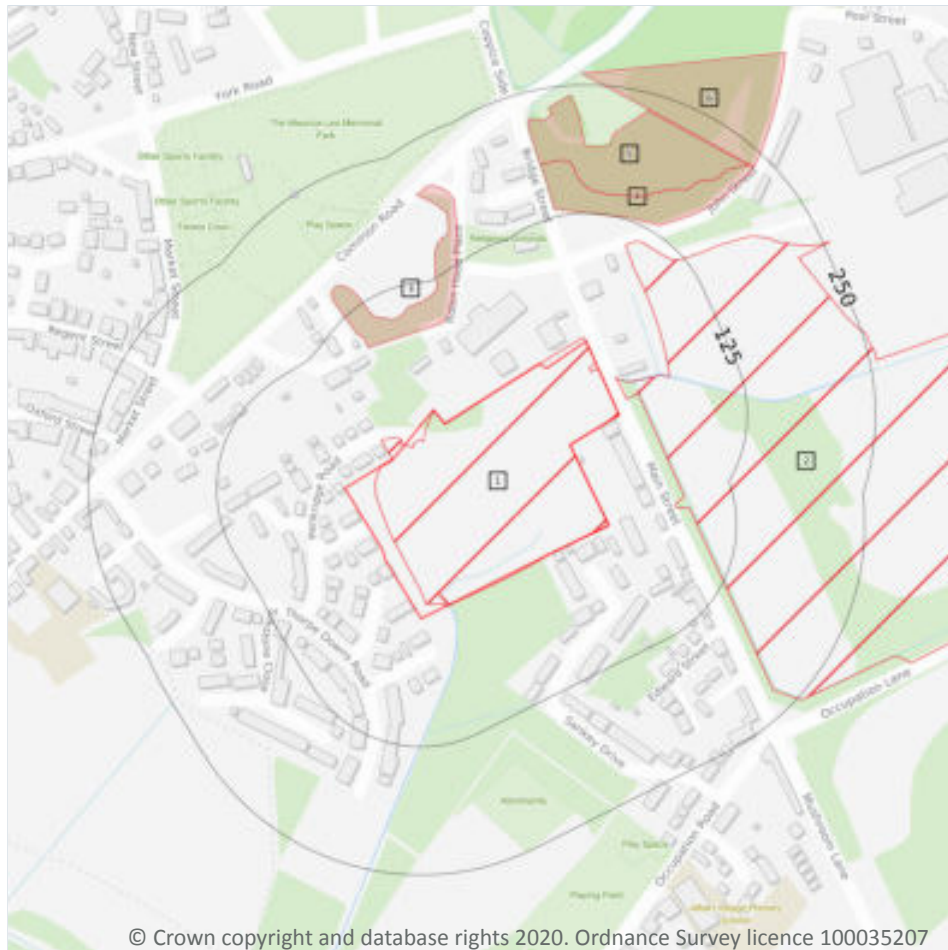
Records within 250m

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

4

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 104**

ID	Location	Main Habitat	Other habitats
3	78m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	125m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
5	145m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	228m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



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

2

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.

Features are displayed on the Habitat designations map on **page 104**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
1	On site	NLUD Ref: 104000012	Low	National Land Use Database - Previously Developed Land	British Geological Survey BRITPITS database	-
2	12m NE	NLUD Ref: 104000005; BRITPITS ref: 27562	Low	National Land Use Database - Previously Developed Land	British Geological Survey BRITPITS database	UK Perspectives Aerial Photography

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

2

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.

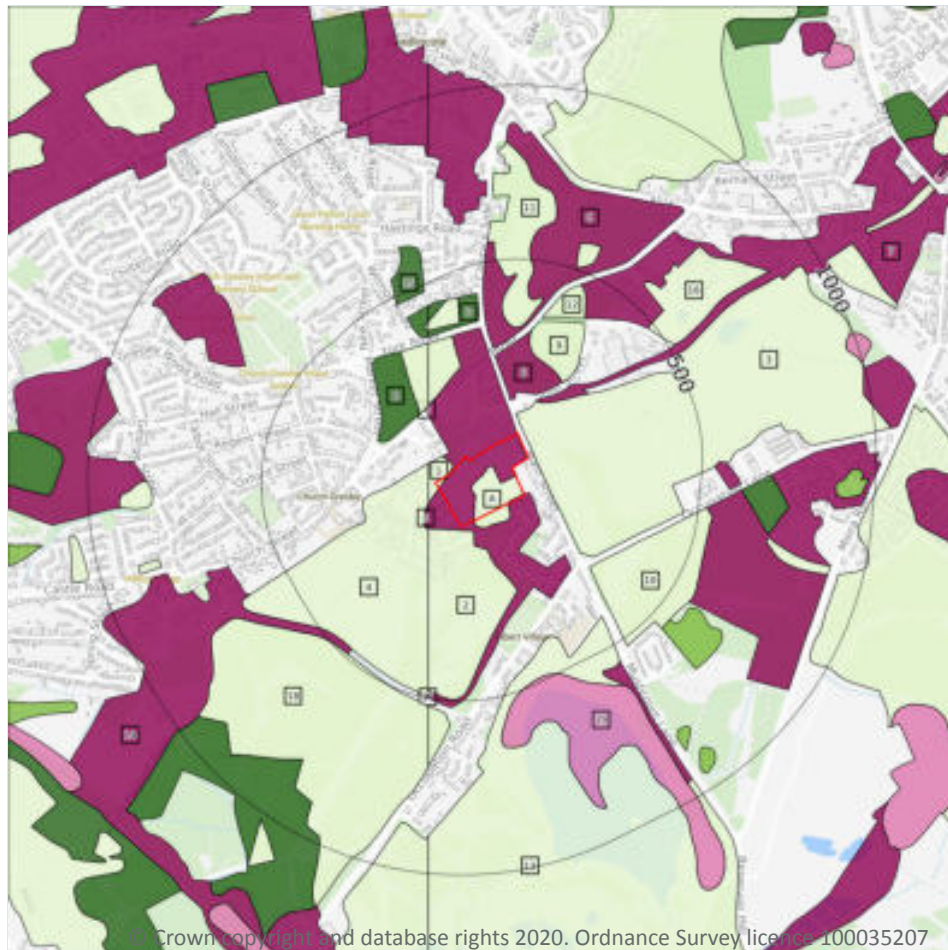
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 107**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SK31NW
2	20m W	Full	Full	Full	No coverage	SK21NE

This data is sourced from the British Geological Survey.



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



— Site Outline
Search buffers in metres (m)

- Reclaimed ground
- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

30

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.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 108**

ID	Location	LEX Code	Description	Rock description
1	On site	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	On site	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	10m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit



ID	Location	LEX Code	Description	Rock description
3	17m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
4	20m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
5	49m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	97m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	108m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	160m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	178m NW	LSGR-UNKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
B	178m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
B	181m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
9	195m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
C	252m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
10	278m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
11	303m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
12	340m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
D	341m N	LSGR-UNKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
D	356m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
D	359m N	LSGR-UNKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
D	376m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
13	395m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
D	402m NW	LSGR-UNKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
14	471m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
15	478m NW	LSGR-UNKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
16	480m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
17	487m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
18	489m SW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
19	489m SE	WGR-VOID	Worked Ground (Undivided)	Void

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

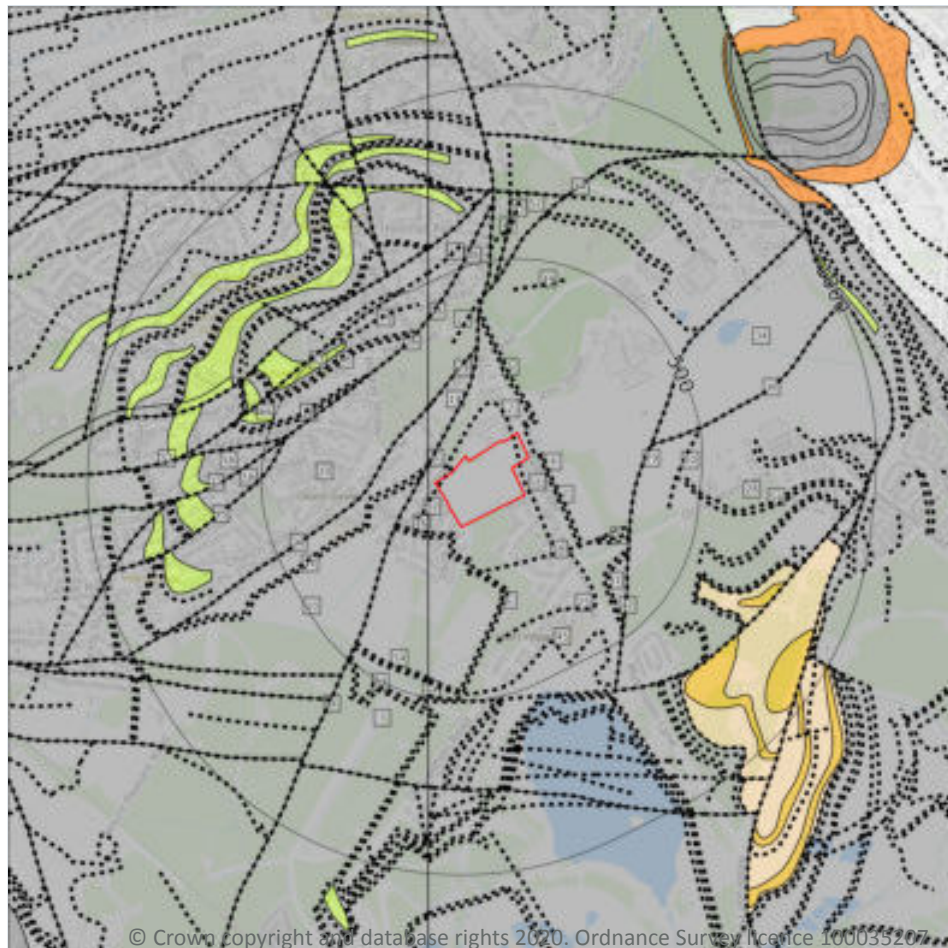
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Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

16

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.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 111**

ID	Location	LEX Code	Description	Rock age
1	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
3	20m W	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age



ID	Location	LEX Code	Description	Rock age
10	44m NW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
14	55m NW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
20	162m NW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
22	177m NW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
28	309m E	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
34	354m E	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
35	355m NW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
43	406m N	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
47	410m NW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
52	436m N	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
56	444m W	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
58	444m W	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
62	465m NW	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
66	499m W	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovia Sub-age - Duckmantian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

52

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.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 111**



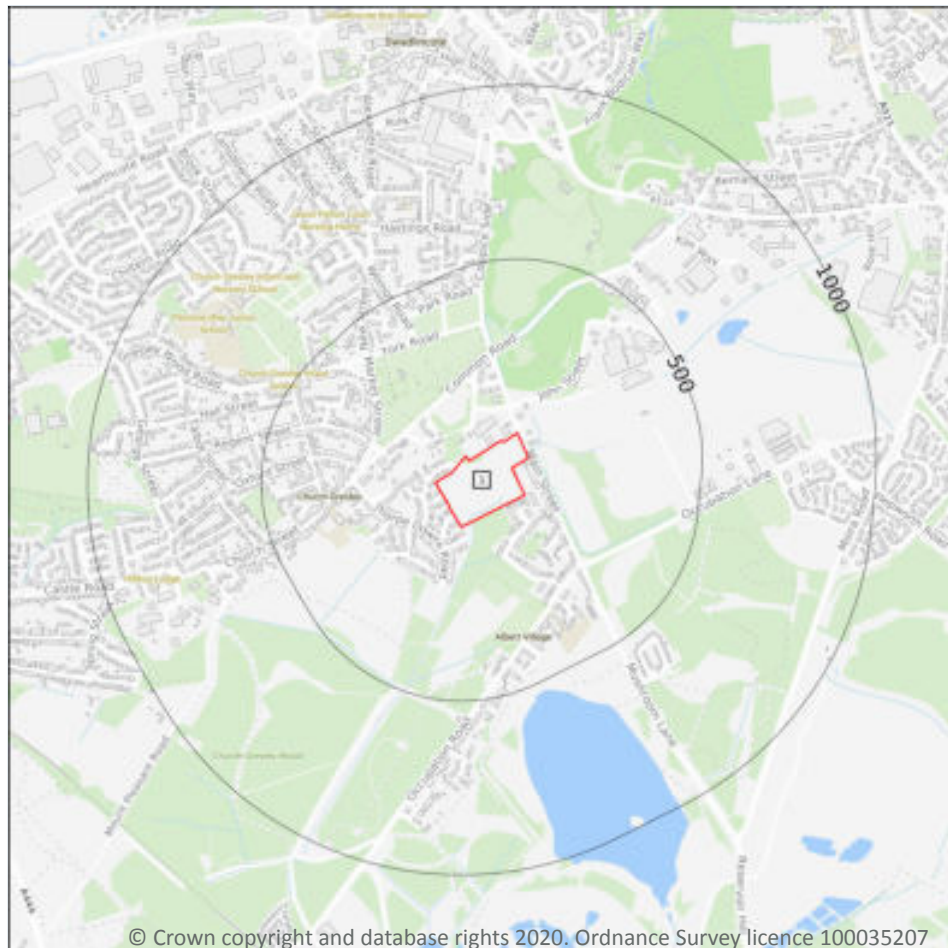
ID	Location	Category	Description
2	On site	ROCK	Coal seam, inferred (P27/28)
4	21m NE	ROCK	Coal seam, observed (DERBY)
5	30m NE	FOSSIL_HORIZON	Fossil horizon, marine band (AEGIRANUM MARINE BAND)
6	30m SW	FOSSIL_HORIZON	Fossil horizon, marine band (AEGIRANUM MARINE BAND)
7	33m E	FOSSIL_HORIZON	Fossil horizon, marine band (AEGIRANUM MARINE BAND)
8	44m SW	ROCK	Coal seam, observed (DERBY)
9	44m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
11	44m W	ROCK	Coal seam, inferred (DERBY)
12	47m SW	ROCK	Coal seam, inferred (P27/28)
13	53m NW	FOSSIL_HORIZON	Fossil horizon, marine band (AEGIRANUM MARINE BAND)
A	55m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
A	57m NW	FOSSIL_HORIZON	Fossil horizon, marine band (AEGIRANUM MARINE BAND)
15	58m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
16	90m SW	FOSSIL_HORIZON	Fossil horizon, marine band (AEGIRANUM MARINE BAND)
17	90m N	ROCK	Coal seam, inferred (DERBY)
18	97m SW	ROCK	Coal seam, observed (DERBY)
19	135m S	FAULT	Normal fault, inferred; crossmarks on downthrow side
21	162m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
23	177m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
24	181m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
25	199m SE	ROCK	Coal seam, inferred ()
26	233m SE	FOSSIL_HORIZON	Fossil horizon, marine band (AEGIRANUM MARINE BAND)
27	250m SE	ROCK	Coal seam, inferred (DERBY)
29	309m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
30	313m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
31	316m SE	FOSSIL_HORIZON	Fossil horizon, marine band (AEGIRANUM MARINE BAND)
32	329m SE	ROCK	Coal seam, observed (DERBY)
33	354m E	FAULT	Normal fault, inferred; crossmarks on downthrow side

ID	Location	Category	Description
36	355m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
37	360m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
38	362m NW	ROCK	Coal seam, inferred (P39/40)
39	363m NW	FOSSIL_HORIZON	Fossil horizon, lingula band (MALTBY MARINE BAND)
40	377m NW	ROCK	Coal seam, inferred (ELL)
41	389m NW	FOSSIL_HORIZON	Fossil horizon, marine band (HAUGHTON MARINE BAND)
42	394m SE	ROCK	Coal seam, inferred (DERBY)
44	406m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
45	410m SE	ROCK	Coal seam, inferred (P25/26)
46	410m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
48	411m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
49	412m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
50	415m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
51	427m E	ROCK	Coal seam, inferred (P23/24)
53	436m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
54	438m S	ROCK	Coal seam, observed (DERBY)
55	444m W	FAULT	Normal fault, inferred; crossmarks on downthrow side
57	444m W	FAULT	Normal fault, inferred; crossmarks on downthrow side
59	448m S	FOSSIL_HORIZON	Fossil horizon, marine band (AEGIRANUM MARINE BAND)
60	451m E	FOSSIL_HORIZON	Fossil horizon, marine band (EDMONDIA MARINE BAND)
61	456m N	ROCK	Coal seam, inferred (P32)
63	488m SW	FOSSIL_HORIZON	Fossil horizon, marine band (AEGIRANUM MARINE BAND)
64	493m S	ROCK	Coal seam, inferred (P25/26)
65	498m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side

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.

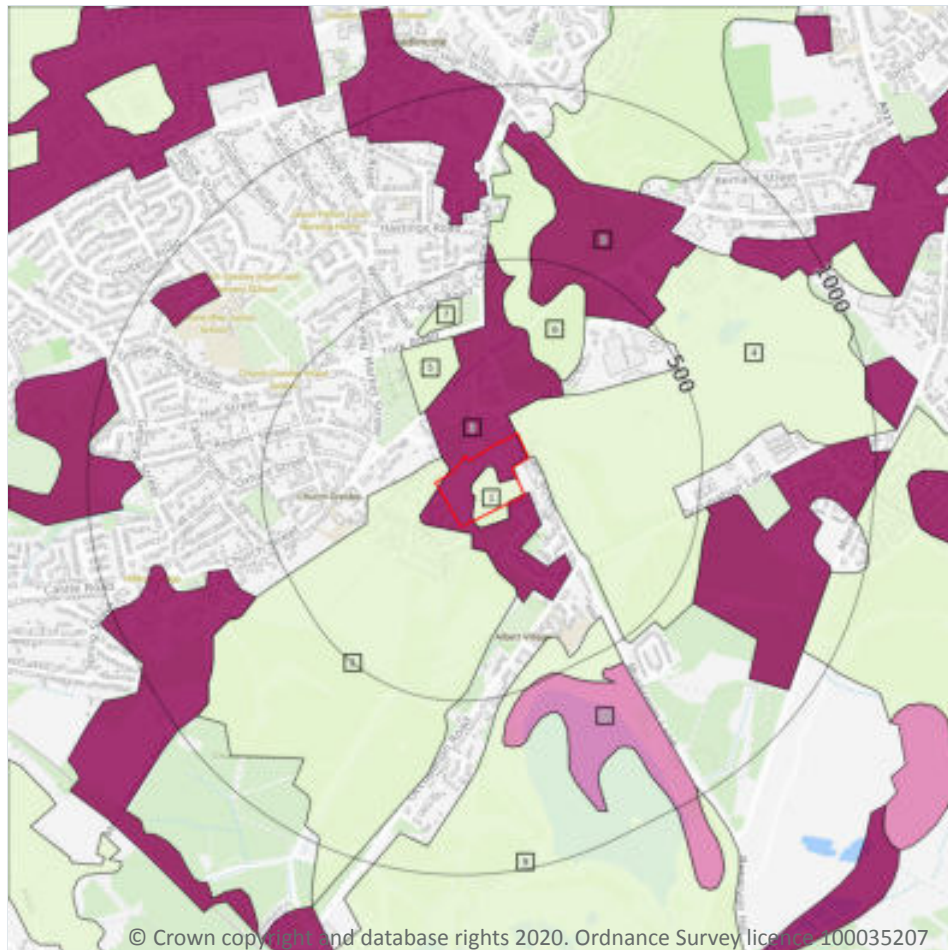
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 115**

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

10

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 116**

ID	Location	LEX Code	Description	Rock description
1	On site	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
2	On site	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
3	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
4	On site	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT



ID	Location	LEX Code	Description	Rock description
5	175m NW	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
6	196m NE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
7	355m NW	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
8	373m N	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
9	397m SE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
10	490m SE	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

7

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).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	Very High	Low
On site	Mixed	Very High	Low
On site	Mixed	Very High	Low
On site	Mixed	Very High	Low
13m S	Mixed	Very High	Low
20m SW	Mixed	Very High	Low
48m SW	Mixed	Very High	Low

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial

15.4 Superficial geology (50k)

Records within 500m

0

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.

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)

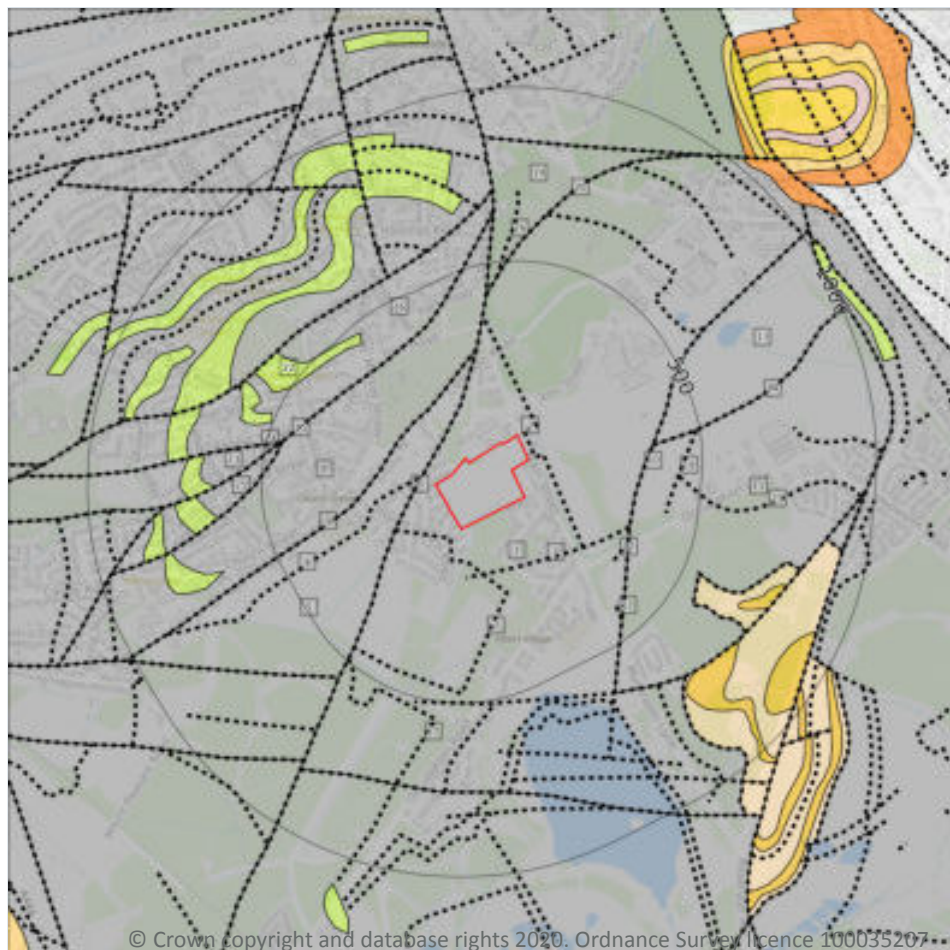
Records within 50m

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

10

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 119**

ID	Location	LEX Code	Description	Rock age
1	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
5	45m NW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
8	157m NW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
11	311m E	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
13	360m E	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
16	360m NW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
19	412m N	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
22	444m NW	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
23	458m W	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
25	458m W	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

2

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
20m W	Fracture	Moderate	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

17

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 119**

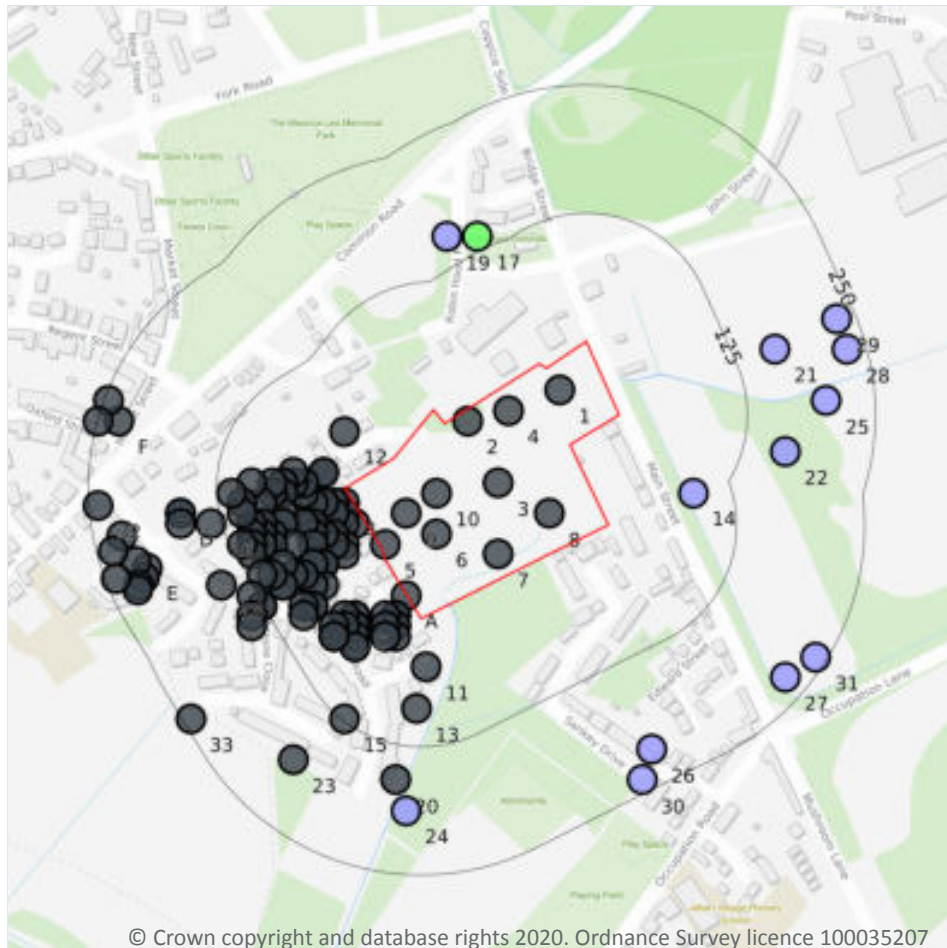


ID	Location	Category	Description
2	21m NE	FOSSIL_HORIZON	Marine band
3	41m SW	FOSSIL_HORIZON	Marine band
4	45m NW	FOSSIL_HORIZON	Marine band
6	45m NW	FAULT	Fault, inferred
7	140m S	FAULT	Fault, inferred
9	157m NW	FAULT	Fault, inferred
10	311m E	FAULT	Fault, inferred
12	314m SE	FOSSIL_HORIZON	Marine band
14	360m E	FAULT	Fault, inferred
15	360m NW	FAULT	Fault, inferred
17	402m SE	FOSSIL_HORIZON	Marine band
18	408m E	FAULT	Fault, inferred
20	412m N	FAULT	Fault, inferred
21	434m E	ROCK	Coal seam, observed
24	458m W	FAULT	Fault, inferred
26	461m N	ROCK	Coal seam, observed
27	494m SW	FOSSIL_HORIZON	Marine band

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

16.1 BGS Boreholes

Records within 250m

149

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 122**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	430230 318500	MANSFIELD POTTERIES BH1	-	Y	N/A
2	On site	430140 318470	MANSFIELD POTTERIES BH3	-	Y	N/A
3	On site	430170 318410	MANSFIELD POTTERIES BH10&R	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
4	On site	430180 318480	MANSFIELD POTTERIES BH2	-	Y	N/A
5	On site	430060 318350	MANSFIELD POTTERIES BH6&6R	-	Y	N/A
6	On site	430110 318360	MANSFIELD POTTERIES BH8	-	Y	N/A
7	On site	430170 318340	MANSFIELD POTTERIES BH9&9R	-	Y	N/A
8	On site	430220 318380	MANSFIELD POTTERIES BH11	-	Y	N/A
9	On site	430080 318380	MANSFIELD POTTERIES BH5&5R	-	Y	N/A
10	On site	430110 318400	MANSFIELD POTTERIES BH4	-	Y	N/A
A	1m SW	430080 318300	MANSFIELD POTTERIES BH7&7R	-	Y	N/A
B	8m SW	430020 318390	LAND OFF CHURCH STREET CHURCH GRESLEY 27.1	-	Y	N/A
B	10m SW	430030 318370	LAND OFF CHURCH STREET CHURCH GRESLEY 7.12	-	Y	N/A
B	13m SW	430020 318380	LAND OFF CHURCH STREET CHURCH GRESLEY 7.10	-	Y	N/A
B	16m SW	430010 318390	LAND OFF CHURCH STREET CHURCH GRESLEY 7.7	-	Y	N/A
B	18m SW	430020 318370	LAND OFF CHURCH STREET CHURCH GRESLEY 7.11	-	Y	N/A
A	20m SW	430070 318280	LAND OFF CHURCH STREET CHURCH GRESLEY 5.6	-	Y	N/A
A	20m SW	430070 318280	LAND OFF CHURCH STREET CHURCH GRESLEY 5.5	-	Y	N/A
A	20m SW	430070 318280	LAND OFF CHURCH STREET CHURCH GRESLEY 23.3	-	Y	N/A
B	22m SW	430010 318380	LAND OFF CHURCH STREET CHURCH GRESLEY 7.8	-	Y	N/A
B	22m SW	430010 318380	LAND OFF CHURCH STREET CHURCH GRESLEY 7.9	-	Y	N/A
B	25m SW	430000 318390	LAND OFF CHURCH STREET CHURCH GRESLEY 7.5	-	Y	N/A
B	25m SW	430000 318390	LAND OFF CHURCH STREET CHURCH GRESLEY 7.6	-	Y	N/A
A	25m SW	430070 318270	LAND OFF CHURCH STREET CHURCH GRESLEY 23.2	-	Y	N/A
A	25m SW	430070 318270	LAND OFF CHURCH STREET CHURCH GRESLEY 5.4	-	Y	N/A
B	26m NW	430000 318420	CHURCH GRESLEY 2	-	Y	N/A
B	26m NW	430000 318420	LAND OFF CHURCH STREET CHURCH GRESLEY TP 5	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	28m SW	430060 318280	LAND OFF CHURCH STREET CHURCH GRESLEY 23.4	-	Y	N/A
B	29m SW	430020 318350	LAND OFF CHURCH STREET CHURCH GRESLEY 10.1	-	Y	N/A
A	30m SW	430070 318260	LAND OFF CHURCH STREET CHURCH GRESLEY 23.1	-	Y	N/A
B	32m SW	430010 318360	LAND OFF CHURCH STREET CHURCH GRESLEY 10.3	-	Y	N/A
A	34m SW	430060 318270	LAND OFF CHURCH STREET CHURCH GRESLEY 5.3	-	Y	N/A
B	34m SW	429990 318390	LAND OFF CHURCH STREET CHURCH GRESLEY 7.4	-	Y	N/A
B	34m SW	430020 318340	LAND OFF CHURCH STREET CHURCH GRESLEY 26.1	-	Y	N/A
B	37m SW	430010 318350	LAND OFF CHURCH STREET CHURCH GRESLEY 10.2	-	Y	N/A
A	39m SW	430060 318260	LAND OFF CHURCH STREET CHURCH GRESLEY 5.2	-	Y	N/A
A	39m SW	430060 318260	LAND OFF CHURCH STREET CHURCH GRESLEY 4.6	-	Y	N/A
A	39m SW	430060 318260	LAND OFF CHURCH STREET CHURCH GRESLEY 5.1	-	Y	N/A
B	41m SW	430000 318360	LAND OFF CHURCH STREET CHURCH GRESLEY 10.4	-	Y	N/A
B	41m W	429980 318400	LAND OFF CHURCH STREET CHURCH GRESLEY 7.3	-	Y	N/A
B	41m W	429980 318410	LAND OFF CHURCH STREET CHURCH GRESLEY 7.2	-	Y	N/A
B	44m SW	429990 318370	LAND OFF CHURCH STREET CHURCH GRESLEY 10.6	-	Y	N/A
11	48m S	430100 318230	LAND OFF CHURCH STREET CHURCH GRESLEY TP 9	-	Y	N/A
12	48m NW	430020 318460	LAND OFF CHURCH STREET CHURCH GRESLEY TP 4	-	Y	N/A
B	49m SW	429990 318360	LAND OFF CHURCH STREET CHURCH GRESLEY 10.5	-	Y	N/A
B	51m W	429970 318410	LAND OFF CHURCH STREET CHURCH GRESLEY 17.5	-	Y	N/A
B	51m W	429970 318410	LAND OFF CHURCH STREET CHURCH GRESLEY 7.1	-	Y	N/A
B	52m SW	429980 318370	LAND OFF CHURCH STREET CHURCH GRESLEY 10.7	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
B	53m W	429970 318420	LAND OFF CHURCH STREET CHURCH GRESLEY 17.6	-	Y	N/A
C	54m SW	430030 318280	LAND OFF CHURCH STREET CHURCH GRESLEY 6.1	-	Y	N/A
C	54m SW	430030 318280	LAND OFF CHURCH STREET CHURCH GRESLEY 6.2	-	Y	N/A
B	54m SW	429990 318350	LAND OFF CHURCH STREET CHURCH GRESLEY 25.1	-	Y	N/A
B	56m SW	430000 318330	LAND OFF CHURCH STREET CHURCH GRESLEY 8.3	-	Y	N/A
B	56m SW	430000 318330	LAND OFF CHURCH STREET CHURCH GRESLEY 8.4	-	Y	N/A
C	59m SW	430030 318270	LAND OFF CHURCH STREET CHURCH GRESLEY 4.2	-	Y	N/A
C	59m SW	430030 318270	LAND OFF CHURCH STREET CHURCH GRESLEY 21.1	-	Y	N/A
B	61m W	429960 318410	LAND OFF CHURCH STREET CHURCH GRESLEY 17.4	-	Y	N/A
B	61m W	429960 318410	LAND OFF CHURCH STREET CHURCH GRESLEY 17.7	-	Y	N/A
B	61m W	429960 318400	LAND OFF CHURCH STREET CHURCH GRESLEY 17.3	-	Y	N/A
C	63m SW	430020 318280	LAND OFF CHURCH STREET CHURCH GRESLEY TP 7	-	Y	N/A
C	64m SW	430030 318260	LAND OFF CHURCH STREET CHURCH GRESLEY 21.2	-	Y	N/A
B	65m SW	430000 318310	LAND OFF CHURCH STREET CHURCH GRESLEY 11.8	-	Y	N/A
B	65m SW	429990 318330	LAND OFF CHURCH STREET CHURCH GRESLEY 8.2	-	Y	N/A
B	65m SW	429990 318330	LAND OFF CHURCH STREET CHURCH GRESLEY 8.1	-	Y	N/A
B	65m W	429960 318380	LAND OFF CHURCH STREET CHURCH GRESLEY 9.1	-	Y	N/A
C	68m SW	430020 318270	LAND OFF CHURCH STREET CHURCH GRESLEY 4.1	-	Y	N/A
B	70m SW	429960 318370	LAND OFF CHURCH STREET CHURCH GRESLEY 24.1	-	Y	N/A
B	70m SW	429960 318370	LAND OFF CHURCH STREET CHURCH GRESLEY 9.2	-	Y	N/A
C	70m SW	430030 318250	LAND OFF CHURCH STREET CHURCH GRESLEY 21.3	-	Y	N/A
C	70m SW	430030 318250	LAND OFF CHURCH STREET CHURCH GRESLEY 21.4	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
B	71m W	429950 318400	LAND OFF CHURCH STREET CHURCH GRESLEY 17.2	-	Y	N/A
B	71m W	429950 318410	LAND OFF CHURCH STREET CHURCH GRESLEY 18.1	-	Y	N/A
B	71m SW	429970 318350	LAND OFF CHURCH STREET CHURCH GRESLEY TP 6	-	Y	N/A
B	74m W	429990 318310	LAND OFF CHURCH STREET CHURCH GRESLEY 11.7	-	Y	N/A
C	76m SW	430010 318270	LAND OFF CHURCH STREET CHURCH GRESLEY 20.1	-	Y	N/A
B	79m SW	429980 318320	LAND OFF CHURCH STREET CHURCH GRESLEY 11.6	-	Y	N/A
C	82m SW	430010 318260	LAND OFF CHURCH STREET CHURCH GRESLEY 20.2	-	Y	N/A
C	82m SW	430010 318260	CHURCH GRESLEY 6	-	Y	N/A
C	82m SW	430010 318260	LAND OFF CHURCH STREET CHURCH GRESLEY TP 8	-	Y	N/A
C	82m SW	430010 318260	LAND OFF CHURCH STREET CHURCH GRESLEY 20.3	-	Y	N/A
B	82m W	429940 318390	LAND OFF CHURCH STREET CHURCH GRESLEY 17.1	-	Y	N/A
B	83m SW	429990 318290	LAND OFF CHURCH STREET CHURCH GRESLEY 3.1	-	Y	N/A
B	83m SW	429990 318290	LAND OFF CHURCH STREET CHURCH GRESLEY 3.2	-	Y	N/A
B	83m SW	429950 318360	LAND OFF CHURCH STREET CHURCH GRESLEY 9.3	-	Y	N/A
B	87m SW	429970 318320	LAND OFF CHURCH STREET CHURCH GRESLEY 11.5	-	Y	N/A
B	87m SW	429940 318370	LAND OFF CHURCH STREET CHURCH GRESLEY 16.4	-	Y	N/A
B	87m SW	429940 318370	LAND OFF CHURCH STREET CHURCH GRESLEY 16.5	-	Y	N/A
13	88m S	430090 318190	CHURCH GRESLEY 5	-	Y	N/A
14	88m E	430360 318400	WOODVILLE	-2.0	N	207280
B	89m SW	429950 318350	LAND OFF CHURCH STREET CHURCH GRESLEY 9.4	-	Y	N/A
B	90m SW	429960 318330	LAND OFF CHURCH STREET CHURCH GRESLEY 11.4	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
B	91m W	429930 318410	LAND OFF CHURCH STREET CHURCH GRESLEY TP 3	-	Y	N/A
B	92m SW	429980 318290	LAND OFF CHURCH STREET CHURCH GRESLEY 12.1	-	Y	N/A
B	92m SW	429940 318360	LAND OFF CHURCH STREET CHURCH GRESLEY 2.10	-	Y	N/A
B	97m SW	429980 318280	LAND OFF CHURCH STREET CHURCH GRESLEY 3.3	-	Y	N/A
B	97m W	429930 318370	LAND OFF CHURCH STREET CHURCH GRESLEY 16.2	-	Y	N/A
B	97m W	429930 318370	LAND OFF CHURCH STREET CHURCH GRESLEY 16.3	-	Y	N/A
B	97m SW	429940 318350	LAND OFF CHURCH STREET CHURCH GRESLEY 11.3	-	Y	N/A
B	101m SW	429930 318360	LAND OFF CHURCH STREET CHURCH GRESLEY 2.9	-	Y	N/A
B	101m SW	429960 318310	LAND OFF CHURCH STREET CHURCH GRESLEY 13.5	-	Y	N/A
B	101m SW	429960 318310	LAND OFF CHURCH STREET CHURCH GRESLEY 13.6	-	Y	N/A
B	101m W	429920 318390	LAND OFF CHURCH STREET CHURCH GRESLEY 19.1	-	Y	N/A
B	103m W	429920 318380	LAND OFF CHURCH STREET CHURCH GRESLEY 16.1	-	Y	N/A
B	104m SW	429950 318320	LAND OFF CHURCH STREET CHURCH GRESLEY 14.1	-	Y	N/A
B	106m SW	429930 318350	LAND OFF CHURCH STREET CHURCH GRESLEY 15.5	-	Y	N/A
B	106m SW	429930 318350	LAND OFF CHURCH STREET CHURCH GRESLEY 15.6	-	Y	N/A
B	106m SW	429930 318350	LAND OFF CHURCH STREET CHURCH GRESLEY 11.2	-	Y	N/A
B	111m W	429910 318400	LAND OFF CHURCH STREET CHURCH GRESLEY 19.2	-	Y	N/A
B	111m SW	429930 318340	LAND OFF CHURCH STREET CHURCH GRESLEY 15.4	-	Y	N/A
B	113m SW	429940 318320	LAND OFF CHURCH STREET CHURCH GRESLEY 14.2	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
B	114m SW	429920 318350	LAND OFF CHURCH STREET CHURCH GRESLEY 15.7	-	Y	N/A
15	123m SW	430020 318180	LAND OFF CHURCH STREET CHURCH GRESLEY TP 11	-	Y	N/A
B	128m W	429940 318290	LAND OFF CHURCH STREET CHURCH GRESLEY 9.6	-	Y	N/A
B	128m W	429940 318290	LAND OFF CHURCH STREET CHURCH GRESLEY 9.9	-	Y	N/A
B	132m SW	429930 318300	CHURCH GRESLEY 3	-	Y	N/A
16	135m W	429890 318370	LAND OFF CHURCH STREET CHURCH GRESLEY 2.7	-	Y	N/A
17	138m NW	430150 318650	NEW ENGLAND MINE SHAFTS	23.77	N	206804
B	141m SW	429930 318280	LAND OFF CHURCH STREET CHURCH GRESLEY 9.7	-	Y	N/A
B	145m SW	429930 318270	LAND OFF CHURCH STREET CHURCH GRESLEY 9.8	-	Y	N/A
18	152m SW	429900 318310	LAND OFF CHURCH STREET CHURCH GRESLEY TP 13	-	Y	N/A
19	153m NW	430120 318650	NEW ENGLAND MINE SHAFTS	-2.0	N	206805
20	159m S	430070 318120	LAND OFF CHURCH STREET CHURCH GRESLEY TP 10	-	Y	N/A
D	162m W	429860 318380	LAND OFF CHURCH STREET CHURCH GRESLEY TP 2	-	Y	N/A
D	162m W	429860 318380	LAND OFF CHURCH STREET CHURCH GRESLEY 2.1	-	Y	N/A
D	164m W	429860 318370	CHURCH GRESLEY 1	-	Y	N/A
21	165m NE	430440 318540	WOODVILLE	-2.0	N	207275
22	166m E	430450 318440	WOODVILLE	-2.0	N	207279
23	186m SW	429970 318140	CHURCH GRESLEY 4	-	Y	N/A
24	188m S	430080 318090	WOODVILLE	-2.0	N	207257
25	203m E	430490 318490	WOODVILLE	-2.0	N	207278
E	207m W	429828 318327	CHURCH GRESLEY SWADLINCOTE 4	-	Y	N/A
E	214m SW	429825 318317	CHURCH GRESLEY SWADLINCOTE R2	-	Y	N/A
26	215m SE	430320 318150	WOODVILLE	-2.0	N	207314
E	216m W	429817 318333	CHURCH GRESLEY SWADLINCOTE TP 6	-	Y	N/A
E	222m SW	429820 318310	LAND OFF CHURCH STREET CHURCH GRESLEY TP 1	-	Y	N/A

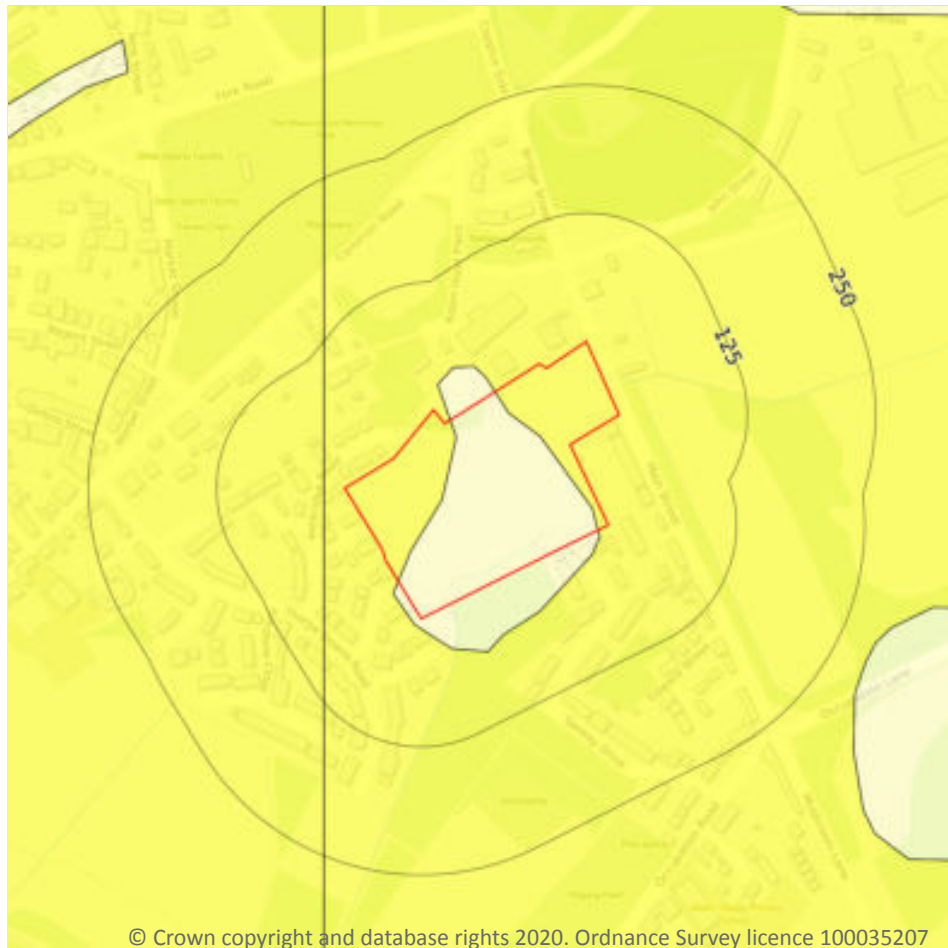


ID	Location	Grid reference	Name	Length	Confidential	Web link
E	222m W	429803 318358	CHURCH GRESLEY SWADLINCOTE TP 5	-	Y	N/A
E	225m SW	429819 318305	CHURCH GRESLEY SWADLINCOTE TP 7	-	Y	N/A
27	228m SE	430450 318220	WOODVILLE	-2.0	N	207313
F	230m W	429800 318470	OXFORD STREET CHURCH GRESLEY TP 3	-	Y	N/A
28	231m E	430510 318540	WOODVILLE	-2.0	N	207277
29	232m NE	430500 318570	WOODVILLE	-2.0	N	207276
E	234m W	429795 318343	CHURCH GRESLEY SWADLINCOTE TP 8	-	Y	N/A
30	237m SE	430310 318120	WOODVILLE	-2.0	N	207315
31	240m SE	430480 318240	WOODVILLE	-2.0	N	207312
E	240m W	429797 318316	CHURCH GRESLEY SWADLINCOTE TP 2	-	Y	N/A
32	241m W	429780 318388	CHURCH GRESLEY SWADLINCOTE 3	-	Y	N/A
33	243m SW	429870 318180	LAND OFF CHURCH STREET CHURCH GRESLEY TP 12	-	Y	N/A
F	246m W	429790 318490	OXFORD STREET CHURCH GRESLEY TP 1	-	Y	N/A
F	249m W	429780 318470	OXFORD STREET CHURCH GRESLEY TP 2	-	Y	N/A

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

3

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).

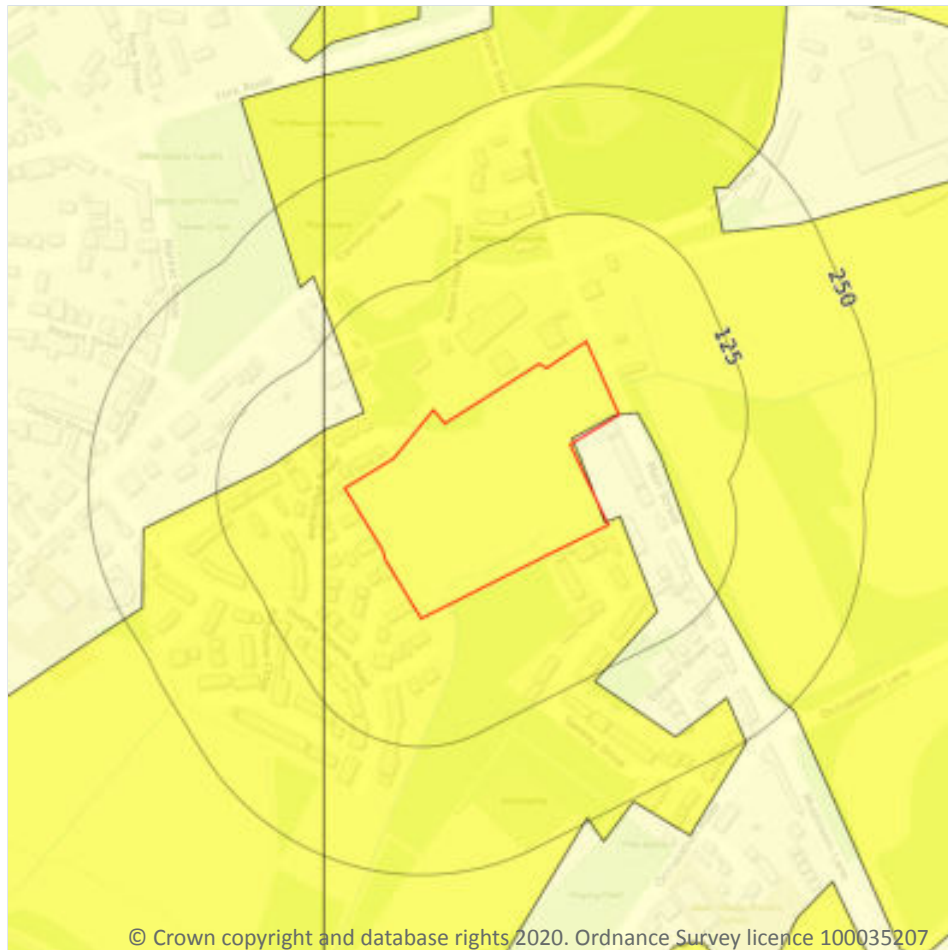
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 130**

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
20m W	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

3

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 132**

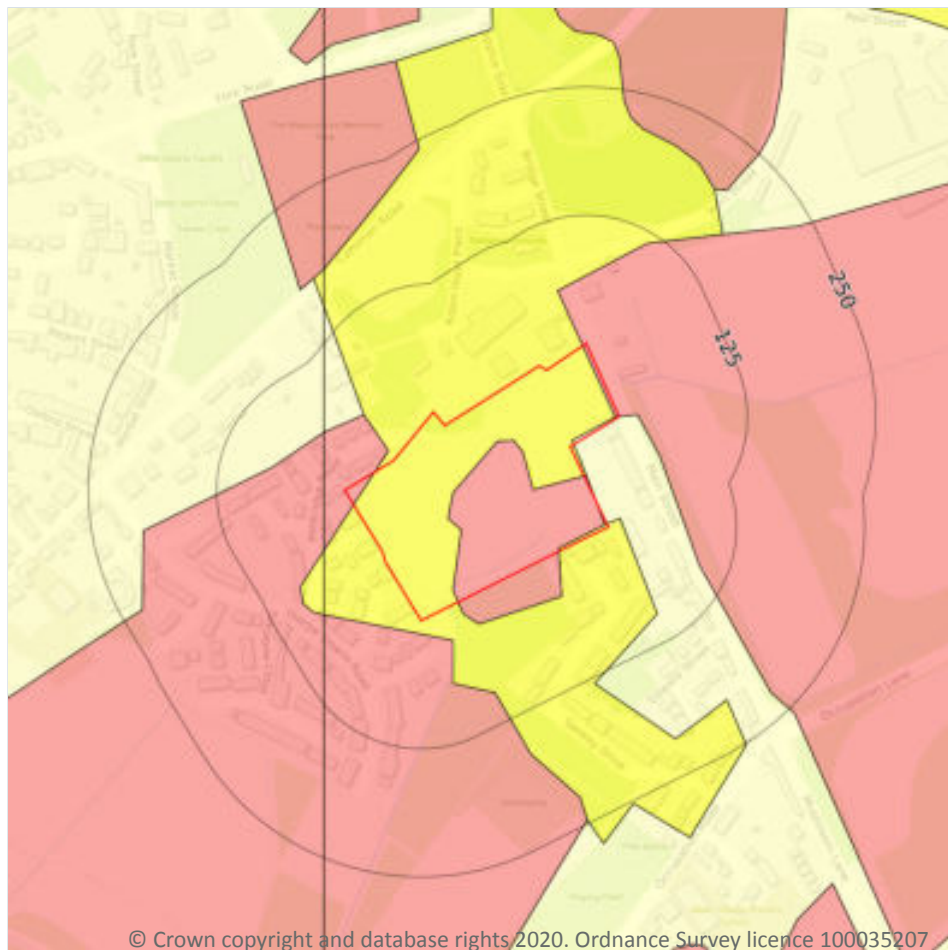
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
20m W	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

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

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17.3 Compressible deposits

Records within 50m

6

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 134**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

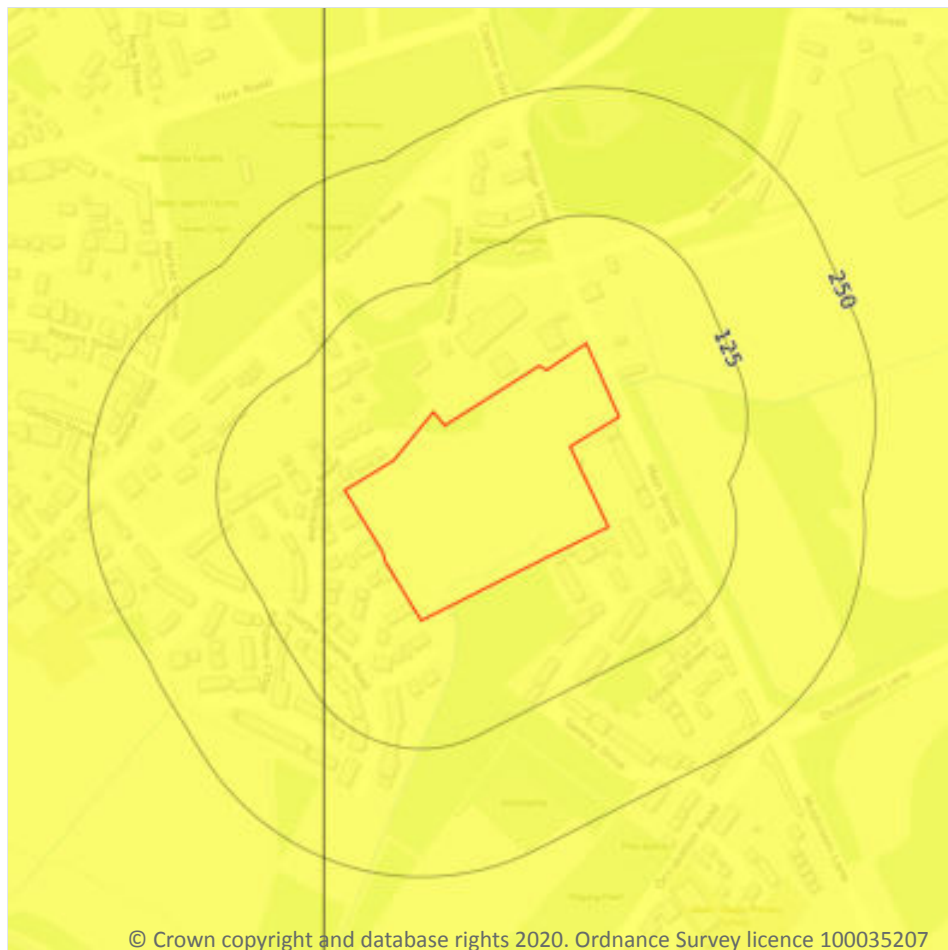


Location	Hazard rating	Details
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.
13m S	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.
20m W	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.
48m SW	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

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

2

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.

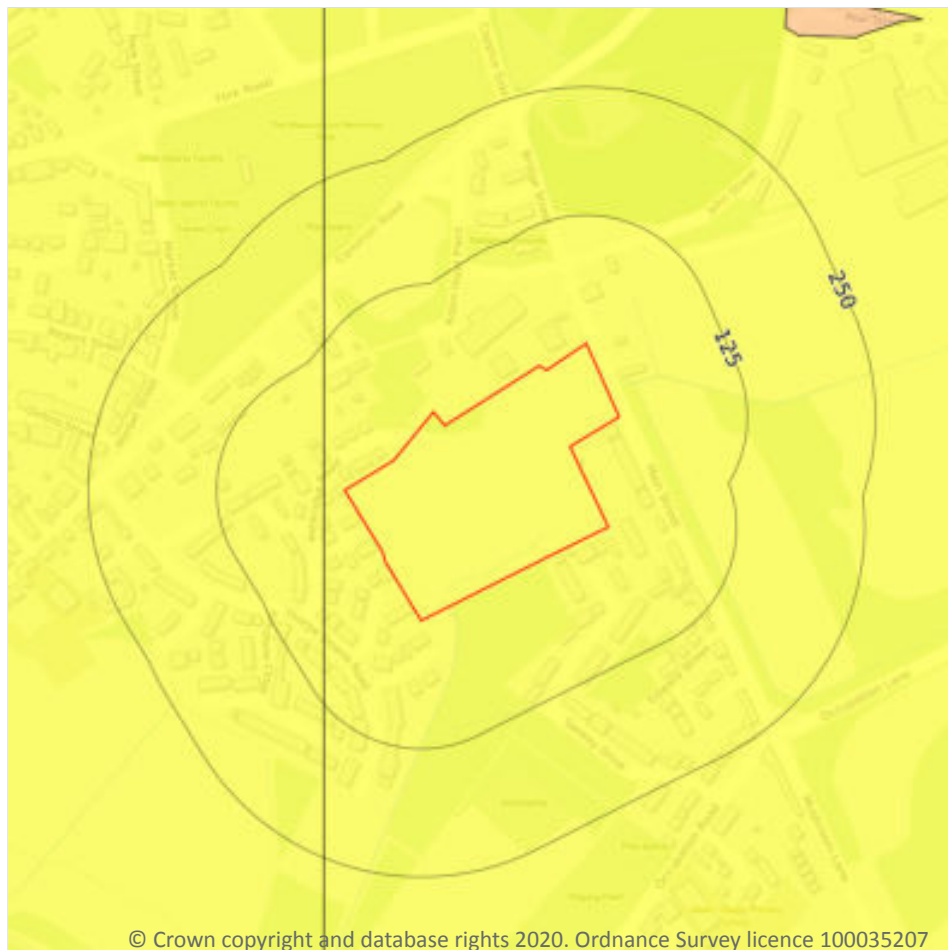
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 136**

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
20m W	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 137**

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.

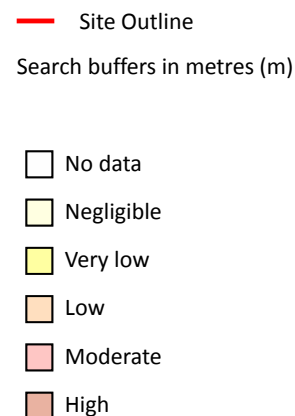
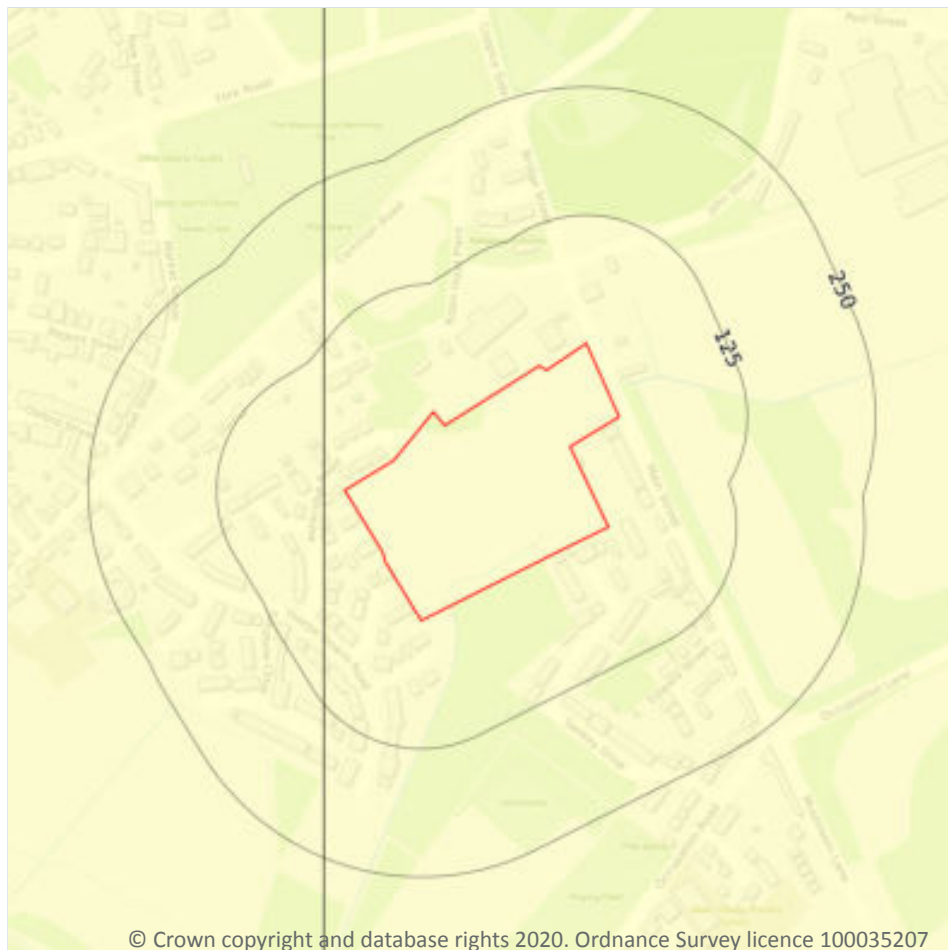


Location	Hazard rating	Details
20m W	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

2

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 139**

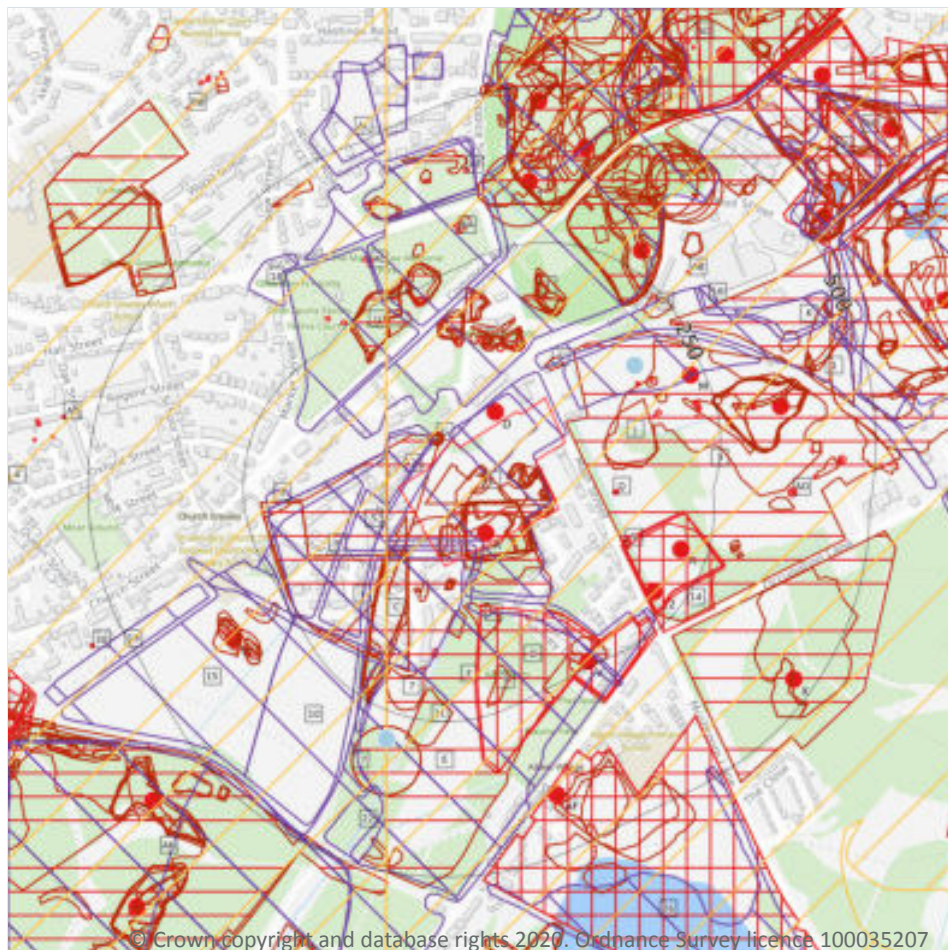
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

Location	Hazard rating	Details
20m W	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 Peter Brett Associates (PBA).

18.2 BritPits

Records within 500m

15

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 141**

ID	Location	Details	Description
A	On site	Name: Albert Works Address: Albert Village, ASHBY-DE-LA-ZOUCH, Leicestershire Commodity: Fireclay Status: Working is partly surface and partly underground, working the same bodies for the same commodities	Type: Ceased 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	18m NW	Name: Albert Village Address: Albert Village, SWADLINCOTE, Derbyshire Commodity: Clay & Shale Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Dormant Status description: Site which, at the date of entry, is defined under the Environment Act 1995 as a mineral site where no mineral development has taken place to any substantial extent in, on, or under the site at any time in the period 22nd February 1982 and 6 June 1995.
12	202m SE	Name: Ensor's Clay Mine No 5 Address: Albert Village, ASHBY-DE-LA-ZOUCH, Leicestershire Commodity: Fireclay Status: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Type: Ceased 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
R	207m E	Name: Ensor's Clay Mine Address: Albert Village, ASHBY-DE-LA-ZOUCH, Leicestershire Commodity: Fireclay Status: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Type: Ceased 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
M	228m NE	Name: Ensor's No 1 Quarry Address: Woodville, SWADLINCOTE, Derbyshire Commodity: Fireclay Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased 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



ID	Location	Details	Description
V	239m SE	Name: Occupation Road Clay Mine Address: Albert Village, ASHBY-DE-LA-ZOUCH, Leicestershire Commodity: Fireclay Status: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Type: Ceased 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
L	282m NE	Name: Church Gresley Potteries Address: SWADLINCOTE, Derbyshire Commodity: Clay & Shale Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased 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
Y	348m N	Name: Swadlincote Brick Works Address: SWADLINCOTE, Derbyshire Commodity: Clay & Shale Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased 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
W	351m SW	Name: Railwayside Clay Pit Address: Church Gresley, SWADLINCOTE, Derbyshire Commodity: Clay & Shale Status: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Type: Ceased 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
M	352m E	Name: Ensor's Pit No 3 Address: Woodville, SWADLINCOTE, Derbyshire Commodity: Fireclay Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased 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
L	407m N	Name: Swadlincote Brick Works Address: SWADLINCOTE, Derbyshire Commodity: Clay & Shale Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased 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



ID	Location	Details	Description
AF	409m SE	Name: Ensor's Clay Mine No 4 Address: Albert Village, ASHBY-DE-LA-ZOUCH, Leicestershire Commodity: Fireclay Status: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Type: Ceased 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
AF	440m SE	Name: Ensor's No 2 Quarry Address: Albert Village, ASHBY-DE-LA-ZOUCH, Leicestershire Commodity: Fireclay Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased 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
X	466m SE	Name: Ensor's No 5 Quarry Address: Albert Village, ASHBY-DE-LA-ZOUCH, Leicestershire Commodity: Fireclay Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased 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
L	477m N	Name: Swadlincote Brick Works Address: SWADLINCOTE, Derbyshire Commodity: Clay & Shale Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased 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

111

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 141**

ID	Location	Land Use	Year of mapping	Mapping scale
2	On site	Refuse Heap	1975	1:10000
A	On site	Unspecified Ground Workings	1967	1:10560
A	On site	Unspecified Ground Workings	1938	1:10560
A	On site	Unspecified Pit	1900	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Unspecified Ground Workings	1925	1:10560
A	On site	Unspecified Ground Workings	1950	1:10560
A	On site	Brick and Tile Works	1882	1:10560
A	On site	Pond	1900	1:10560
A	On site	Pond	1900	1:10560
A	On site	Unspecified Ground Workings	1925	1:10560
A	On site	Unspecified Ground Workings	1925	1:10560
A	On site	Unspecified Ground Workings	1884	1:10560
A	On site	Ponds	1900	1:10560
A	On site	Blue Brick and Tile Works	1885	1:10560
B	On site	Refuse Heap	1882	1:10560
B	On site	Blue Brick and Tile Works	1882	1:10560
F	On site	Opencast Workings	1975	1:10000
A	4m SE	Unspecified Ground Workings	1900	1:10560
G	10m NW	Unspecified Pit	1938	1:10560
G	10m NW	Unspecified Pit	1900	1:10560
G	10m NW	Unspecified Pit	1925	1:10560
G	10m NW	Unspecified Pit	1925	1:10560
G	12m NW	Unspecified Pit	1950	1:10560
G	12m NW	Unspecified Pit	1884	1:10560
3	14m NE	Opencast Workings	1975	1:10000
C	14m SW	Fire Brick and Fire Clay Works	1925	1:10560
G	16m NW	Unspecified Pit	1882	1:10560
H	19m W	Refuse Heap	1974	1:10000
C	23m S	Sewage Tanks	1925	1:10560
C	23m S	Sewage Tanks	1900	1:10560
C	23m S	Sewage Tanks	1900	1:10560
C	38m SW	Refuse Heap	1950	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
C	40m SW	Fire Brick and Clay Works	1884	1:10560
I	42m SW	Fire Brick and Fire Clay Works	1938	1:10560
I	42m SW	Fire Brick Works	1900	1:10560
C	45m SW	Fire Brick Works	1900	1:10560
6	46m N	Unspecified Heap	1975	1:10000
C	56m SW	Sewage Tanks	1925	1:10560
M	63m E	Unspecified Ground Workings	1967	1:10560
J	65m E	Refuse Heap	1950	1:10560
N	71m SE	Unspecified Heap	1967	1:10560
C	71m SW	Fire Brick and Fire Clay Works	1950	1:10560
N	76m S	Cuttings	1967	1:10560
P	85m NW	Unspecified Heap	1950	1:10560
P	88m NW	Unspecified Heap	1925	1:10560
P	88m NW	Unspecified Heap	1925	1:10560
P	88m NW	Unspecified Heap	1967	1:10560
P	88m NW	Refuse Heap	1900	1:10560
P	89m NW	Unspecified Heap	1938	1:10560
P	107m N	Refuse Heap	1925	1:10560
P	107m N	Refuse Heap	1925	1:10560
P	107m N	Refuse Heap	1938	1:10560
P	119m NW	Unspecified Pit	1938	1:10560
P	119m N	Unspecified Pit	1925	1:10560
P	119m N	Unspecified Pit	1925	1:10560
P	126m NW	Refuse Heap	1882	1:10560
P	127m NW	Refuse Heap	1882	1:10560
T	133m N	Unspecified Ground Workings	1884	1:10560
T	135m N	Refuse Heap	1925	1:10560
T	135m N	Refuse Heap	1925	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
T	135m N	Refuse Heap	1938	1:10560
T	135m N	Unspecified Heap	1950	1:10560
T	137m N	Unspecified Heaps	1967	1:10560
P	140m NW	Refuse Heap	1900	1:10560
P	147m NW	Unspecified Heap	1950	1:10560
P	148m NW	Unspecified Heap	1925	1:10560
P	148m NW	Unspecified Heap	1925	1:10560
P	148m NW	Unspecified Heap	1884	1:10560
P	157m NW	Unspecified Heap	1967	1:10560
J	158m NE	Refuse Heap	1882	1:10560
P	160m NW	Pond	1925	1:10560
P	161m NW	Pond	1967	1:10560
T	162m N	Refuse Heap	1925	1:10560
T	162m N	Refuse Heap	1925	1:10560
J	162m NE	Unspecified Pit	1950	1:10560
P	164m NW	Pond	1938	1:10560
P	164m NW	Pond	1900	1:10560
P	164m NW	Pond	1882	1:10560
7	166m S	Unspecified Ground Workings	1967	1:10560
C	166m SW	Refuse Heap	1950	1:10560
C	175m SW	Refuse Heap	1925	1:10560
C	175m SW	Refuse Heap	1925	1:10560
U	181m NW	Unspecified Pit	1950	1:10560
9	181m SE	Unspecified Pit	1967	1:10560
U	183m NW	Unspecified Ground Workings	1925	1:10560
U	183m NW	Unspecified Ground Workings	1925	1:10560
U	184m NW	Unspecified Ground Workings	1938	1:10560
L	193m NE	Unspecified Ground Workings	1950	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
U	193m NW	Unspecified Heap	1950	1:10560
L	197m NE	Unspecified Ground Workings	1925	1:10560
L	197m NE	Unspecified Ground Workings	1925	1:10560
11	199m S	Unspecified Ground Workings	1967	1:10560
L	199m NE	Unspecified Ground Workings	1938	1:10560
V	201m SE	Unspecified Heap	1967	1:10560
M	201m E	Pond	1967	1:10560
13	211m NE	Refuse Heap	1882	1:10560
U	221m N	Pond	1884	1:10560
U	221m N	Pond	1938	1:10560
U	221m N	Pond	1925	1:10560
L	222m NE	Refuse Heap	1882	1:10560
U	224m N	Pond	1950	1:10560
U	224m N	Pond	1967	1:10560
V	228m SE	Refuse Heap	1925	1:10560
L	231m NE	Unspecified Pits	1900	1:10560
K	234m NE	Fire Brick and Sanitary Pipe Works	1882	1:10560
M	242m NE	Refuse Heap	1882	1:10560
M	246m E	Unspecified Ground Workings	1884	1:10560
M	247m E	Unspecified Pit	1950	1:10560
M	247m E	Unspecified Pit	1925	1:10560
M	247m E	Unspecified Pit	1925	1:10560
M	248m E	Unspecified Pit	1938	1:10560

This is data is sourced from Ordnance Survey/Groundsure.



18.4 Underground workings

Records within 1000m

118

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 141**

ID	Location	Land Use	Year of mapping	Mapping scale
O	83m SE	Clay Mine	1950	1:10560
O	90m SE	Clay Mine	1925	1:10560
Q	92m E	Clay Shaft	1950	1:10560
Q	95m E	Clay Shaft	1938	1:10560
P	100m N	Unspecified Shaft	1967	1:10560
R	113m SE	Clay Mine	1900	1:10560
R	114m SE	Clay Mine	1950	1:10560
R	117m SE	Clay Mine	1925	1:10560
S	120m SE	Air Shaft	1950	1:10560
S	123m SE	Air Shaft	1925	1:10560
P	123m NW	Unspecified Shaft	1967	1:10560
F	134m S	Clay Shaft	1950	1:10560
P	137m NW	Unspecified Disused Shafts	1967	1:10560
F	141m S	Clay Shaft	1925	1:10560
J	143m NE	Old Clay Shaft	1882	1:10560
J	147m E	Old Clay Shafts	1882	1:10560
J	153m E	Unspecified Old Shafts	1938	1:10560
J	164m NE	Old Clay Shafts	1882	1:10560
V	209m SE	Clay Mine	1900	1:10560
M	215m E	Old Clay Shafts	1882	1:10560
M	215m E	Unspecified Old Shafts	1950	1:10560
M	217m E	Unspecified Old Shafts	1950	1:10560
M	219m E	Unspecified Old Shafts	1938	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
U	221m N	Old Clay Shaft	1882	1:10560
14	225m SE	Clay Mine	1900	1:10560
V	228m SE	Air Shaft	1967	1:10560
M	251m NE	Old Clay Shaft	1882	1:10560
U	253m NW	Unspecified Shafts	1882	1:10560
U	275m NW	Unspecified Shafts	1882	1:10560
AA	298m NW	Pumping Shaft	1882	1:10560
AB	303m NE	Old Clay Shaft	1882	1:10560
M	305m E	Unspecified Old Shafts	1938	1:10560
AC	305m NW	Unspecified Shafts	1882	1:10560
AC	314m NW	Unspecified Shafts	1882	1:10560
AC	318m NW	Unspecified Shafts	1882	1:10560
21	361m SE	Unspecified Workings	1975	1:10000
AD	368m E	Unspecified Disused Shaft	1967	1:10560
AD	368m E	Clay Shaft	1882	1:10560
AD	374m E	Unspecified Old Shafts	1950	1:10560
AE	384m N	Unspecified Old Shaft	1900	1:10560
L	394m N	Air Shaft	1967	1:10560
L	394m N	Air Shaft	1950	1:10560
AD	395m E	Old Clay Shafts	1900	1:10560
AE	396m NW	Pumping Shaft	1882	1:10560
L	397m N	Air Shaft	1938	1:10560
AE	402m N	Unspecified Shaft	1882	1:10560
AD	403m E	Pumping Shaft	1882	1:10560
AF	417m SE	Clay Shaft	1950	1:10560
AF	418m SE	Clay Shaft	1925	1:10560
AD	440m E	Unspecified Old Shafts	1938	1:10560
AD	440m E	Old Clay Shafts	1900	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
AD	440m E	Old Clay Shaft	1882	1:10560
AD	440m E	Unspecified Disused Shaft	1967	1:10560
AD	441m E	Unspecified Old Shafts	1950	1:10560
AG	448m N	Unspecified Mine	1967	1:10560
L	467m N	Air Shaft	1950	1:10560
L	472m N	Air Shaft	1938	1:10560
AP	482m NE	Unspecified Mine	1967	1:10560
AG	508m NE	Colliery	1950	1:10560
AG	528m NE	Colliery	1938	1:10560
AG	528m NE	Colliery	1900	1:10560
AG	528m NE	Colliery	1882	1:10560
AT	548m W	Unspecified Old Shafts	1882	1:10560
30	552m SW	Unspecified Old Shaft	1882	1:10560
AT	560m W	Unspecified Old Shafts	1882	1:10560
AT	585m W	Unspecified Old Shafts	1882	1:10560
AT	588m W	Unspecified Old Shafts	1882	1:10560
AT	589m W	Unspecified Old Shafts	1882	1:10560
AG	610m NE	Air Shaft	1882	1:10560
AG	614m N	Unspecified Old Shaft	1882	1:10560
AH	614m E	Unspecified Disused Shaft	1967	1:10560
AH	619m E	Unspecified Shaft	1882	1:10560
AH	622m E	Air Shaft	1950	1:10560
AP	622m NE	Colliery	1938	1:10560
AP	622m NE	Colliery	1900	1:10560
AH	624m E	Air Shaft	1938	1:10560
BD	673m SW	Unspecified Mine	1967	1:10560
BD	675m SW	Colliery	1950	1:10560
BB	680m NW	Unspecified Old Shaft	1882	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
AH	686m NE	Air Shaft	1950	1:10560
AH	690m NE	Air Shaft	1938	1:10560
BB	695m NW	Unspecified Old Shafts	1882	1:10560
BB	697m NW	Old Coal Shafts	1900	1:10560
BB	699m NW	Old Coal Shafts	1900	1:10560
BB	700m NW	Unspecified Old Shafts	1882	1:10560
BE	711m SW	Colliery	1900	1:10560
BE	712m SW	Colliery	1938	1:10560
BE	718m SW	Colliery	1882	1:10560
-	730m N	Tunnel	1882	1:10560
-	742m N	Clay Mine	1950	1:10560
-	755m N	Unspecified Shaft	1938	1:10560
-	755m NE	Old Clay Shaft	1882	1:10560
39	766m SE	Clay Mine	1925	1:10560
BH	789m SE	Unspecified Mine	1967	1:10560
-	796m N	Tunnel	1882	1:10560
-	817m E	Clay Shafts	1925	1:10560
-	817m E	Clay Shaft	1900	1:10560
-	817m E	Clay Shaft	1950	1:10560
-	835m E	Clay Mine	1950	1:10560
-	850m SE	Trial Shafts	1950	1:10560
-	852m SE	Trial Shafts	1925	1:10560
-	852m SW	Air Shafts	1882	1:10560
-	860m S	Trial Shafts	1925	1:10560
-	860m S	Trial Shafts	1950	1:10560
-	862m SW	Air Shafts	1882	1:10560
-	917m NE	Clay Mine	1938	1:10560
-	920m E	Clay Mine	1900	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	947m E	Old Clay Shafts	1882	1:10560
-	949m NW	Old Coal Shaft	1900	1:10560
-	977m N	Unspecified Disused Shafts	1975	1:10000
-	977m N	Unspecified Disused Shafts	1967	1:10560
-	977m E	Pumping Shaft	1900	1:10560
-	981m SW	Unspecified Old Shaft	1882	1:10560
-	984m E	Pumping Shaft	1950	1:10560
-	986m E	Old Pumping Shaft	1882	1:10560
-	988m E	Pumping Shaft	1925	1:10560
-	994m E	Old Pumping Shaft	1882	1:10560
-	997m E	Old Pumping Shaft	1882	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	37
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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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 141**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
B	On site	Albert	Fireclay, clay	Working is wholly underground	Valid	5/9/60,26/7/51
C	On site	Church Street	Fireclay	Surface mineral working	Valid	Not available
D	On site	Albert	Fireclay, clay	Mineral working is partly on the surface and partly underground	Valid	5/9/60,26/7/51
E	On site	Church Gresley	Coal	Surface mineral working	Valid	10/9/73
F	On site	Church Street	Fireclay	Working is wholly underground	Valid	26/7/51
5	32m SW	Church Street	Fireclay	Surface mineral working	Valid	26/6/63



ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
J	42m NE	Pool Works	Fireclay, clay (crucible)	Surface mineral working	Valid	28/2/53,14/2/73
K	47m N	Albert Village	Clay, coal	Surface mineral working	Valid	26/4/72
L	52m NW	Swadlincote	Fireclay	Working is wholly underground	Valid	20/4/53
H	58m W	Church Street	Fireclay	Surface mineral working	Valid	26/6/53
I	92m SW	Church Street	Fireclay	Surface mineral working	Valid	26/6/63
U	161m NW	Swadlincote	Fireclay	Working is wholly underground	Refused	20/4/53
8	174m W	Church Street	Fireclay	Surface mineral working	Valid	Not available
10	187m SW	Off Church Street	Clay	Surface mineral working	Valid	28/2/53
U	189m N	Swadlincote	Fireclay	Working is wholly underground	Refused	20/4/53
W	242m SW	Church Street	Clay, coal	Working is wholly underground	Valid	15/1/70
W	242m SW	Church Street	Clay, coal	Surface mineral working	Valid	15/1/70
15	247m SW	Off Church Street	Clay	Surface mineral working	Valid	28/2/53
K	289m NE	Albert Village	Clay, coal	Surface mineral working	Valid	26/4/72
16	296m NE	Albert Village	Clay, coal	Surface mineral working	Valid	26/4/72
17	318m SW	Off Occupation Road	Clay, coal	Surface mineral working	Valid	1/10/71
K	335m NE	Albert Village	Clay, coal	Surface mineral working	Valid	26/4/72
18	344m NW	Swadlincote	Fireclay	Working is wholly underground	Valid	20/4/53
AE	352m NW	Swadlincote	Fireclay	Working is wholly underground	Valid	20/4/53
19	353m SW	Off Church Street	Clay	Surface mineral working	Refused	28/2/53
L	354m N	Coppice Side	Marl, fireclay	Surface mineral working	Valid	26/1/53
AE	355m N	Gresley Common	Fireclay	Surface mineral working	Valid	15/7/55
22	370m S	Church Street	Fireclay	Surface mineral working	Valid	24/6/60
AL	463m NW	Hastings Road	Fireclay	Working is wholly underground	Valid	4/12/53



ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
AH	472m E	Milk Hill	Clay, fireclay, coal	Surface mineral working	Valid	11/6/47
AN	475m SW	Railway Brickworks	Marl, fireclay	Surface mineral working	Valid	30/11/53
AL	479m N	Hastings Road	Fireclay	Surface mineral working	Valid	4/12/53
AH	481m E	Milk Hill	Clay	Working is wholly underground	Valid	11/6/47
26	481m SE	Highfields	Clay, coal	Surface mineral working	Valid	7/5/58
AL	482m NW	Church Street	Clay	Surface mineral working	Valid	28/2/53
AN	487m SW	Railway Brickworks	Marl, fireclay	Working is wholly underground	Valid	30/11/53
AI	490m NE	Hillside	Clay, fireclay, coal	Surface mineral working	Application	Not available

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

2

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 141**

ID	Location	Name	Commodity	Class	Likelihood
1	On site	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
4	20m W	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

5

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 141**

ID	Location	Mine Address	Mineral	Data source	Publisher
J	153m NE	Swadlincote, Leicestershire	Clay	-	-
R	233m E	Pool No. 8, Swadlincote, Derbyshire	Clay	CATALOGUE OF PLANS OF ABANDONED MINES (NON COAL)	-
E	293m S	Ashby Woulds, Derbyshire	Clay	CATALOGUE OF PLANS OF ABANDONED MINES (NON COAL)	-
-	839m SW	Railway Works No.2, Derbyshire	Fireclay	MINING FILE	-
-	920m SE	Swadlincote, Derbyshire	Clay	CATALOGUE OF PLANS OF ABANDONED MINES (NON COAL)	-

This data is sourced from Peter Brett Associates (PBA).

18.8 JPB mining areas

Records on site

1

Areas which could be affected by former coal 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. Further details and a quote for services 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 Mining Searches UK.

18.13 Clay mining

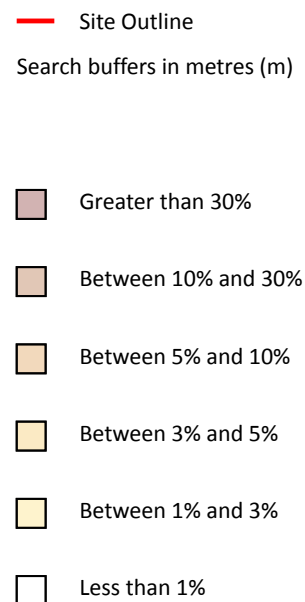
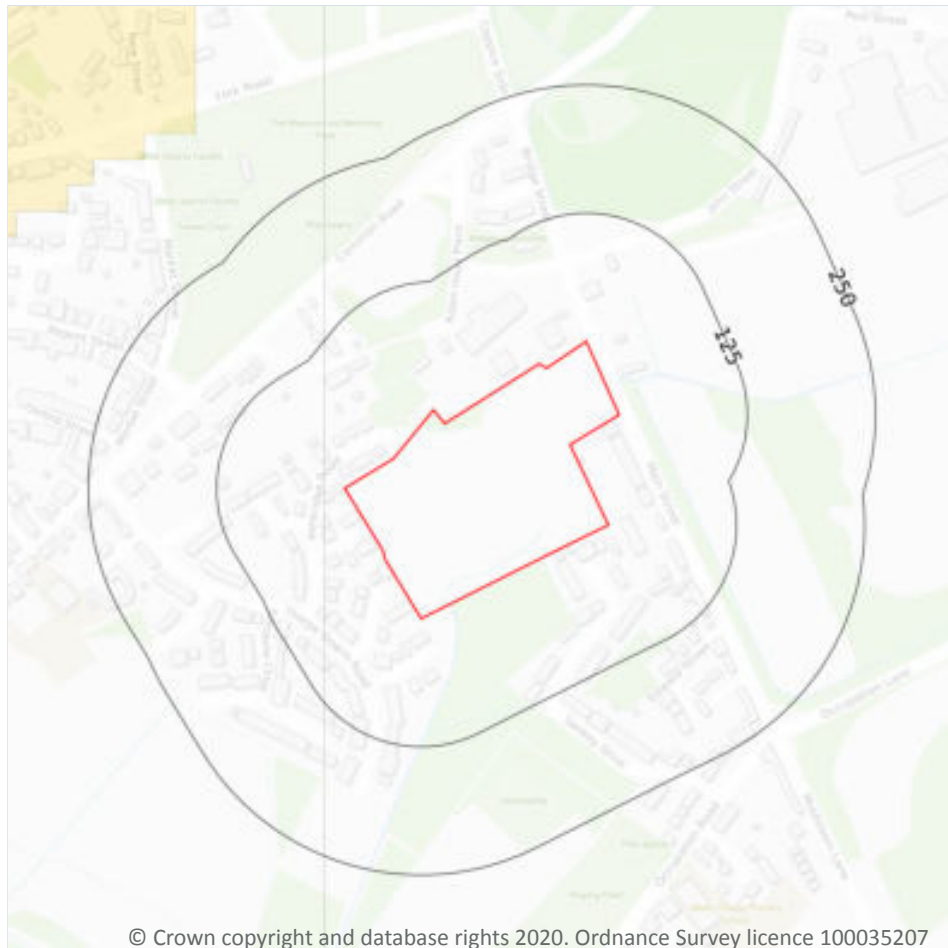
Records on site	0
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Generalised areas that may be affected by kaolin and ball clay extraction.

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 158**

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

4

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	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
20m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
45m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 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

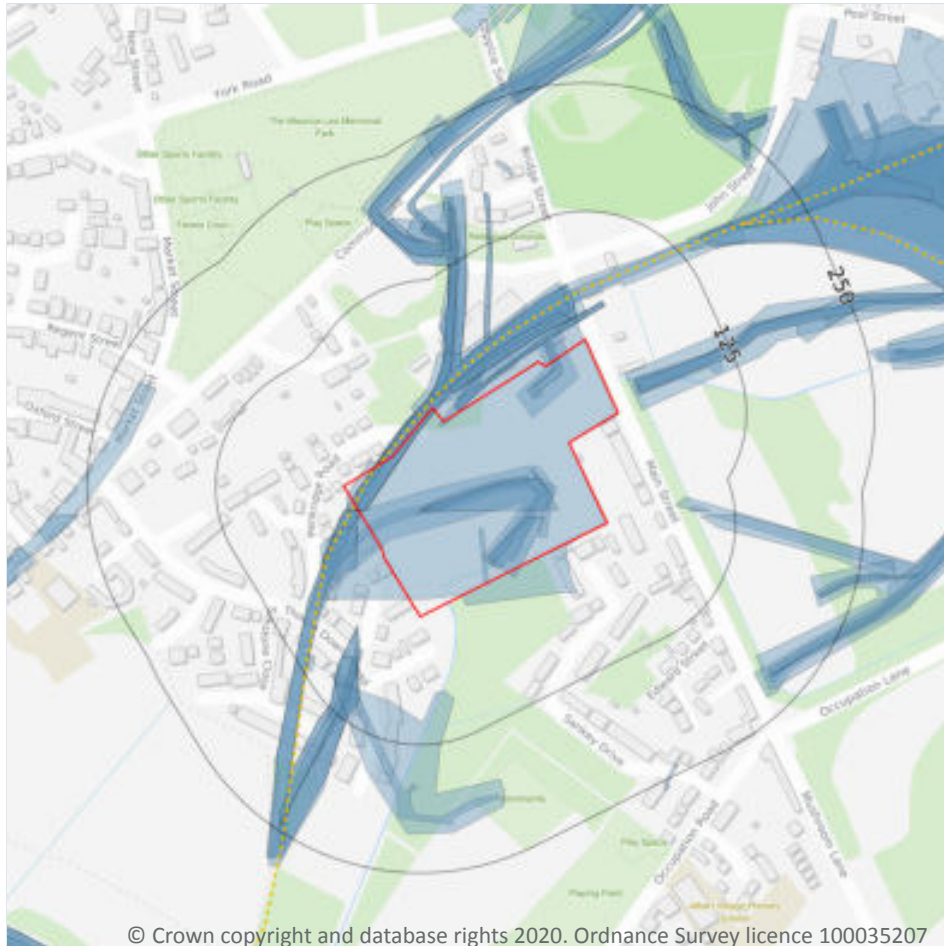
0

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



- Site Outline
- Search buffers in metres (m)
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 1 Worksites
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

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

60

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.

Features are displayed on the Railway infrastructure and projects map on **page 160**

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1959	2500
On site	Railway Sidings	1882	2500
On site	Railway Sidings	1883	2500
On site	Railway Sidings	1923	2500
On site	Mineral Railway Sidings	1923	2500
On site	Railway Sidings	1938	10560
On site	Railway Sidings	1967	10560
On site	Railway Sidings	1884	10560
On site	Railway Sidings	1950	10560
On site	Railway Sidings	1900	10560
On site	Railway Sidings	1882	10560
On site	Railway Sidings	1925	10560
1m NW	Railway Sidings	1883	2500
1m NW	Railway Sidings	1901	2500
4m NW	Railway Sidings	1882	10560
10m SW	Railway Sidings	1925	10560
12m N	Tramway Sidings	1884	10560



Location	Land Use	Year of mapping	Mapping scale
20m NW	Railway Sidings	1884	10560
21m NE	Railway Sidings	1938	10560
26m NE	Railway Sidings	1950	10560
28m NE	Tramway Sidings	1923	2500
29m NE	Railway Sidings	1884	10560
61m SW	Railway Sidings	1959	2500
62m SW	Railway Sidings	1925	10560
64m SW	Railway Sidings	1923	2500
69m E	Tramway Sidings	1950	10560
74m SW	Railway Sidings	1901	2500
76m S	Railway Sidings	1967	10560
82m E	Tramway Sidings	1923	2500
91m E	Tramway Sidings	1925	10560
95m SW	Railway Sidings	1959	2500
108m SW	Railway Sidings	1901	2500
134m NE	Railway Sidings	1882	10560
135m NW	Tramway Sidings	1901	2500
136m NW	Tramway Sidings	1925	10560
138m NW	Mineral Railway Sidings	1923	2500
143m NW	Railway Sidings	1923	2500
150m NE	Railway Sidings	1900	10560
153m SW	Railway Sidings	1959	2500
175m NW	Railway Sidings	1923	2500
179m NE	Railway Sidings	1950	10560
195m SE	Tramway Sidings	1900	10560
206m NW	Railway Sidings	1950	10560
212m SE	Tramway Sidings	1900	10560
215m E	Tramway Sidings	1900	10560



Location	Land Use	Year of mapping	Mapping scale
216m SE	Tramways Sidings	1901	2500
218m NE	Railway Sidings	1967	10560
218m SE	Tramway Sidings	1923	2500
221m NE	Railway Sidings	1882	2500
225m NW	Tram Sidings	1950	10560
225m NE	Railway Sidings	1901	2500
229m NE	Railway Sidings	1938	10560
233m NE	Railway Sidings	1950	10560
235m NE	Railway Sidings	1923	2500
236m NE	Railway Sidings	1925	10560
237m SW	Railway Sidings	1901	2500
237m SW	Railway Sidings	1923	2500
238m NE	Railway Sidings	1923	2500
238m NE	Railway Sidings	1883	2500
241m SE	Railway Sidings	1923	2500

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

2

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

Features are displayed on the Railway infrastructure and projects map on **page 160**



Location	Description
On site	Abandoned
190m NE	Abandoned

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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