



INVESTIGATE



REMEDiate



REGENERATE



DESK STUDY WITH WALKOVER SURVEY

**FOR
33 THE CRESCENT,
BRIMINGTON,
CHESTERFIELD**

**PREPARED FOR
CHESTERFIELD BOROUGH
COUNCIL**

**REPORT NO. NE4037
MAY 2021**

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EXECUTIVE SUMMARY

This executive summary is a brief summary only and should be read in conjunction with the full report.

Section	Subject	Summary
Site Details	Site Address	33 The Crescent, Brimington, Chesterfield, Derbyshire, S43 1AZ
	Grid Reference	439476, 373344
	Current Land Use	Residential property comprising a two-storey end terrace house and garden.
	Proposed Development	Ground investigation to assess ground conditions and remedial measures against subsidence.
Site History	On Site	Undeveloped field until between 1955 and 1963 when it was developed as the present residential property.
	Beyond Site Boundary	Several historical collieries, mines, quarries and brick works in the surrounding area including Brimington Colliery 110m to the north west in the late 1800s/ early 1900s. An unspecified mine with associated railway sidings and slag heap were developed near to the north west boundary post-1921, largely removed by 1970s, when a tip was located 20m to the north west of the site. Houses including on The Crescent by 1963.
Geological and Mining Appraisal	Made Ground	Made ground some 13m to the north west of the site in area of former mine.
	Superficial Geology	None recorded.
	Bedrock Geology	Undifferentiated mudstones, siltstones and sandstones of the Pennine Lower Coal Measures Formation. Coal seam inferred to outcrop on site.
	Radon	1% to 3% - No Radon Protection Measures required.
	Mining	Site is potentially underlain at surface and shallow depth by worked coal seams. A detailed geological and mining appraisal is recommended.
	Subsidence Hazards	Investigation into on site subsidence is ongoing.
Environmental Appraisal	Landfill Sites	None recorded. Historical spoil heap/ refuse tip located 20m to the north west.
	Hydrogeology	Underlying bedrock is designated a Secondary A aquifer. Surface water abstraction point 1.6km to the south west. No groundwater water or potable water abstraction points within 2km. No Source Protection Zones within 500m of the site.
	Hydrology	Nearest watercourse is located 61m to the south west. Three significant surface water features identified within 250m.
	Flood Risk	Very Low
	Industrial Land Uses	Historical mine workings some 10m to 20m to the north west.
	Other Relevant Details	None
Recommendations	<ul style="list-style-type: none"> A nominal intrusive ground investigation has been undertaken to assess the ground conditions. The ground investigation should obtain soil samples for contamination analysis and asbestos detection and, where possible, groundwater and surface water samples for contamination analysis. In addition gas standpipes would need to be installed and monitored over an extended period of time to allow an assessment to be made. A detailed geological and mining appraisal to determine the presence of shallow coal seams and/or mineworkings. 	
Other Considerations	Dependent on the findings of the intrusive ground investigation and geological and mining appraisal, a rotary borehole might be required to investigate potential coal mine workings.	

**DESK STUDY WITH WALKOVER SURVEY FOR 33 THE CRESCENT,
BRIMINGTON, CHESTERFIELD, S43 1AZ**

CLIENT: CHESTERFIELD BOROUGH COUNCIL

ENGINEER: PROPERTY AND TECHNICAL SERVICES

1. INTRODUCTION

This report has been prepared in accordance with Purchase Order No. DES/51669 dated 23rd March 2021, from the Client.

The brief was set out in our estimate, ref. E7036 dated 17th march 2021, and comprises a walkover survey and a desk study report including a historical, geological and environmental appraisal together with a conceptual ground model.

1.1 Site Location and Description

The site is located at 33 The Crescent, Brimington, Chesterfield, Derbyshire, S43 1AZ, as indicated on Figure 1. The approximate National Grid Reference of the centre of the site is 439476, 373343.

As shown on Figure 2, the site forms a roughly rectangular area of 0.02ha comprising an existing end terrace house with garden. The site is bound by The Crescent to the south east, 31 The Crescent adjoining to the south west, 35 the Crescent to the north east, and woodland to the north west.

1.2 Proposed Development and Purpose of the Desk Study

We understand that the existing property is showing signs of subsidence in the northern corner with cracking occurring both internally and externally, and consequently an investigation into potential causes and remedial measures required.

The purpose of the desk study is to obtain information regarding the sites historical, geological and environmental setting in order to produce a conceptual ground model, to assess the ground conditions, to undertake a preliminary assessment of contamination sources, pathways and receptors relating to potential hazards that exist or will potentially exist on the site and to assess the need for ground investigation.

1.3 Walkover Survey

The site walkover survey was undertaken on 14th March 2021. Photographs taken during the site walkover are appended with locations indicated on Figure 2.

At the time of the walkover the site comprised a brick-built two-storey end terrace house with a rear garden to the west and small front garden to the east. Some evidence of structural distress was observed in the north east of the property with cracking in the wall.

The generally level garden areas were mainly grassed with occasional concrete surfaced paths and concrete flags adjacent to the building. A shared brick outbuilding was located in the north east of the site. A hedge delineated the western boundary at the rear of the property, with an overgrown wooded area beyond, with mature trees noted several metres from the site.

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No visual or olfactory contamination was noted during the walkover survey.

2. DESK STUDY

2.1 Historical Appraisal

The past history of the site has been interpreted from the study of old Ordnance Survey plans supplied by Groundsure, as follows:

TABLE 1 SMALL SCALE SURVEYS TABLE 2 LARGE SCALE SURVEYS

Date	Scale
1876	1:10,560
1897-1899	1:10,560
1921	1:10,560
1938	1:10,560
1945-1947	1:10,560
1950-1955	1:10,560
1967-1968	1:10,560
1973-1976	1:10,000
1990-1991	1:10,000
2001	1:10,000
2010	1:10,000
2021	1:10,000

Date	Scale
1876-1881	1:2,500
1898	1:2,500
1916-1918	1:2,500
1938	1:2,500
1963	1:2,500
1964	1:1,250*
1976-1978**	1:1,250*
1990-1993	1:1,250*
2003	1:1,250

* Published scale, the appended extract is reproduced at 1:2,000, ** Site not shown

Extracts of the above surveys are appended.

TABLE 3 HISTORICAL APPRAISAL

Date	On site	Beyond site boundary
1876	The earliest survey depicts the site as part of a field.	The surrounding area largely comprises undeveloped fields. An old mine shaft and old quarry are denoted 150m to the north and east respectively. Tinkersick Colliery is shown approximately 250m to the south east. The nearest property is a house 200m to the south east. A stream is present some 10m north west of the site running from north east to south west.
1897-1899	No changes are noted at this time.	Brimington Colliery is shown 110m to the north west with an air shaft denoted 100m to the north west. Additional old shafts are shown 140m and 195m to the north. Brick works are shown 215m to the north west. A water channel is depicted 10m to the north west of the site.
1916-1921	No changes are noted at this time.	Brimington Colliery, previously 110m to the north west, has been removed with the associated ground workings evidently infilled/landscaped. The quarry 150m to the east is no longer shown, possibly backfilled. A small pond is depicted 15m to the west.

1938-1955	No changes are noted at this time.	Mine works comprising ground workings with mineral railway sidings and a works building are depicted 35m to the west and 70m to the south west. A refuse heap is depicted at the site of former brick works 235m to the north west. Several new houses are shown in the surrounding area with the nearest 160m to the south east.
1963-1968	The site has been developed with the end terrace house and outbuilding as found at the present time.	An extensive new housing development is depicted in the surrounding area generally to the east of the site. The Crescent is shown adjacent to the south east boundary with houses adjoining to the south west and adjacent to the north east. The unspecified mine has been expanded with additional buildings, sidings and ground workings with the nearest some 20m to the west and a slag heap denoted 35m to the north.
1973-1978	No changes are noted at this time.	The mine works to the west have been largely removed and associated ground workings infilled/ landscaped. The slag heap has been extended some 20m to the north west and is now denoted as a disused tip. New housing is shown 170m to the north east.
1993-2021	No changes are noted at this time.	No significant changes are noted at this time.

2.2 Geological Appraisal

This following appraisal is based upon the appended Groundsure Enviro+Geo Insight Report (Sections 14 to 17) and Chesterfield Borough Council's Preliminary Site Report (Structural) as provided by the Client.

Artificial Ground (Made Ground)

No made ground is identified underlying the site, however as the site has been developed some may be present underlying buildings or hardstanding.

Made ground is identified 13m to the north west on the site of a former mine and associated spoil heap. Areas of infilled ground are also shown 212m to the north and 225m to south east, identified on the historical maps as former brick works and ground workings associated with the Tinkersick Colliery, respectively.

Superficial Geology (Drift Deposits)

No drift deposits are indicated to be present within the site or in its immediate vicinity. However, a thin residual layer of weathered rockhead may be present.

Bedrock Geology

Within the site the bedrock underlying the site is indicated to be Pennine Lower Coal Measures strata comprising undifferentiated mudstones, siltstones and sandstones.

The Enviro+Geo Insight report identifies an inferred coal seam outcropping on the site and several others in close proximity including 27m, 53m and 77m to the north east and 28m to the west. The Council's Preliminary Site Report identifies the coal seams to the north east of the site as the Cockleshell, Low Tupton and Three Quarters Coal seams which are indicated to dip down to the west at 22 degrees and consequently underlie the site at shallow depth.

In our opinion, based on the location of the site on the historical maps and available published geological maps the coal seam indicated as outcropping across the site is the 2nd Piper Coal seam which overlies the Cockshell Coal seam.

Several geological faults are identified in the surrounding area with the nearest located 191m to the south west.

Potential Hazards in Natural Ground

The site is indicated to have a very low to negligible hazard rating of natural subsidence due to shrink-swell clays, running sands, compressible deposits, collapsible deposits, landslides and ground dissolution of soluble rocks.

2.3 Mining, Radon, Soil Chemistry and Railway Infrastructure Appraisal

This following appraisal is based upon the appended Groundsure Enviro+Geo Insight Report (Sections 18 to 21) and the Council's Preliminary Site Report.

Mining

The British Geological Surveys "BritPits" database contains details of currently active and closed surface and underground mineral workings. There are five records of BritPits within 500m of the site, with the nearest identified as a ceased sandstone quarry located 168m to the east.

Historical surface ground workings within 250m of the site as identified in the report include a colliery adjacent to the site, an unspecified disused tip 24m to the north west, a refuse tip 44m to the north, an unspecified pit 104m to the north, and old quarry 168m to the east, a colliery 199m to the south east, and brick works and associated ground workings 216m to the north.

A number of historical underground workings mainly related to mining are identified within 1km of the site, with the nearest indicated as an unspecified mine located adjacent to the site.

The British Geological Survey indicates that localised small scale underground mining for bedded iron ore may have occurred in the area of the site. However, the potential for difficult ground conditions are indicated to be at a level where they need not be considered.

The Coal Authority indicates that there is a potential for past coal mining beneath the site and recommends that a Coal Mining Report is obtained.

In view of the above and that a potentially worked coal seam outcrops on or in close proximity of the site, we recommend that a full Geological and Mining Appraisal is undertaken to assess the risk to ground stability due to mining.

According to the report the site is not in an area affected by brine extraction, gypsum extraction, tin mining or clay mining.

Radon

The British Geological Survey and Public Health England have estimated the percentage of dwellings exceeding the "Radon Action Level" of 200 Becquerels/ m³ for the UK based on geological assessments and long term measurements of radon in more than 479,000 households.

The site is in an area where between 1% and 3% of surrounding properties are above the Radon Action Level. No radon protection measures are required.

Soil Chemistry

The British Geological Survey have estimated likely background concentrations of potentially harmful arsenic, cadmium, chromium, lead and nickel in the topsoil. Data for on-site topsoil is given.

Railway Infrastructure

There are no active or historical underground or overground railways, or railway tunnels identified within 250m of the site. However railway sidings associated with mine workings are identified 17m to the west.

The site is not within 500m of the Crossrail 1, Crossrail 2 or High Speed 2 (HS2) rail projects.

2.4 Environmental Appraisal

This following appraisal is based upon the appended Groundsure Enviro+Geo Insight Report (Sections 1 to 13).

Historical Industrial Land Use

Historical potentially contaminative industrial land uses identified within 250m of the site include a colliery adjacent to the site, mineral railway sidings 17m to the west, an unspecified disused tip 24m to the north west, a refuse tip 44m to the north, an unspecified pit and old shafts 104m to the north, and old quarry 168m to the east, a colliery 199m to the south east, and brick works and associated ground workings 216m to the north.

Landfill

According to the report there are no active or recently closed landfill sites within 250m of the site.

Waste

According to the Environment Agency there are no active or recently closed waste sites, or sites issued with waste exemption permits, within 250m of the site.

Current Industrial Land Use

Current potentially contaminative industrial land within 250m of the site identified in the report are a disused slag heap 50m to the north and a pipeline 243m to the south west.

National Grid data indicates that there are currently no high voltage underground electricity transmission cables or high pressure underground gas transmission pipelines within 250m of the site.

Sites Determined as Contaminated Land

There are no sites determined as contaminated under Section 78R of the Environmental Protection Act (1990) within 250m of the site.

Control of Major Accident Hazards (COMAH)

Records of Control of Major Accident Hazards (COMAH), including Notification of Installations Handling Hazardous Substances (NIHHS) and other historical data, indicate that there are no dangerous or hazardous sites within 250m of the site.

Regulated Explosives Sites

Up to April 2015 there were no sites within 250m of the site boundary registered and licensed by the Health and Safety Executive under the 2005 Manufacture and Storage of Explosives Regulations.

Hazardous Substance Storage and Usage

There are no Local Authority records of consents granted for sites to hold certain quantities of hazardous substances at or above defined limits in accordance with the 2015 Planning (Hazardous Substances) Regulations within 250m of the site.

Historical Licenced Industrial Activities (IPC)

There are no historical Integrated Pollution Control (IPC) records of substances released to the air, land and water according to the Environment Agency within 250m of the site.

Licenced Industrial Activities (Part 1(A))

The Environment Agency indicate that there are no records of Part 1(A) installations regulated under the 2016 Environmental Permitting Regulations for release to the environment within 250m of the site.

Part A(2) and Part B Authorisations

Local Authority records indicate there are no Part A(2) and Part B installations regulated under the 2016 Environmental Permitting Regulations for the release of substances to the environment within 250m of the site.

Radioactive Substance Authorisations

The Environment Agency indicate that there are no records of storage, use, accumulation and disposal of radioactive substances regulated under the 1993 Radioactive Substances Act within 250m of the site.

Licensed Discharges to Controlled Waters

Within 250m of the site, there are two record of sites issued with an Environment Agency permit to discharge treated or untreated effluent to water under the 1991 Water Resources Act, located 55m and 64m to the south west.

Pollutant Release to Surface Waters (Red List)

The Environment Agency records indicate that there have been no discharges of specified substances under the 1991 Environmental Protection (Prescribed Processes and Substances) Regulations within 250m of the site.

Pollutant Release to Public Sewers

According to Environment Agency records there have been no discharges of special category effluents to public sewers within 250m of the site.

List I and List II Dangerous Substances

The Environment Agency records indicate that within 250m of the site there have been no discharges of List I and List II Dangerous Substances.

Pollution Incidents

According to the Environment Agency there are no records of substantiated pollution incidents within 250m of the site.

Pollution Inventory Substances

The Environment Agency indicate that there have been no reports on annual emissions of certain regulated substances to air, controlled waters and land within 250m of the site.

Pollution Inventory Waste Transfers

According to the Environment Agency there have been no reports on annual transfers and recovery/ disposal of controlled wastes within 250m of the site.

Pollution Inventory Radioactive Waste

The Environment Agency indicate that there have been no reports on annual releases of radioactive substances within 250m.

Hydrogeology

The following designation of aquifers is in accordance with the Environment Agency's April 2010 Groundwater Protection Policy. The underlying bedrock is indicated to be a Secondary A aquifer comprising permeable layers capable of supporting water supplies at a local scale and in some cases forming an important source of base flow to rivers.

The vulnerability of groundwater to a pollutant found within the site and its immediate surrounding area has been assessed as "Medium", an area which may transmit pollution and/or protect from pollution.

The report indicates that the site is not within a 1km grid where solution features are present that will enable rapid movement of a pollutant to groundwater.

Environment Agency data indicates that the site is not in an area where additional local information indicates that groundwater is vulnerable to pollution.

According to data provided by the Environment Agency there is one licensed surface water abstraction point within 2km of the site, located approximately 1.6km to the south west. However there are no licensed groundwater or potable water abstraction reports identified within 2km of the site.

According to the report, within 500m of the site there are no Source Protection Zones, set up to protect a water source.

Hydrology

The Ordnance Survey indicate that there is one watercourse (river, stream or canal) within 250m of the site, located 61m to the south west.

There are three surface water features (ponds or lakes) within 250m of the site boundary according to the Ordnance Survey.

The Water Framework Directive (WFD) indicates that the site is within the catchment of the Rother, Spittal Brook to Doe Lea, this watercourse being located 417m to the north west of the site. The groundwater body is identified as the Don and Rother Millstone Grit and Coal Measures.

Flooding

Flooding data is maintained by the Environment Agency. The Risk of Flooding from Rivers and Sea (RoFRaS) database indicates that within 50m of the site boundary the highest risk of flooding is "Very Low".

In the period since records began in 1946, there are no records of historical floods within 250m of the site.

There are no flood defences, no areas benefitting from flood defences and no flood storage areas present within 250m of the site boundary.

The site is not located within 50m of a Flood Zone 2 or Flood Zone 3.

Ambiental Risk Analytics indicate that the highest risk of surface water flooding on site is between 0.1m and 0.3m for a 1 in 100 year return period.

Groundwater flooding is caused when the water table rises in areas where this is usually at shallow depth. Ambiental Risk Analytics indicate that there is a negligible risk of groundwater flooding on and within 50m of the site.

Environmental and Habitat Designations

The site is located within a Nitrate Vulnerable Zone.

Deciduous woodland priority habitat is identified 130m to the north and 237m to the south.

2.5 Conceptual Ground Model

A conceptual ground model of a site and its environs uses available information to form a preliminary assessment of contamination sources, pathways and receptors, and the significance of hazards that exist or will potentially exist on the site. Its purpose is to identify the relationships between sources of contamination, pathways and receptors to allow exposure scenarios to be determined and thereby aid in the design of any intrusive investigation. It also forms the basis of the risk assessment.

Sources

Potential sources of contamination identified in the desk study are:

- General contaminants including asbestos in made ground derived from past building and demolition processes.
- Hydrocarbon contamination from spillage and leakage of oils and fuels associated with past site activity.
- Ground gases generated from infilled ground within 250m of the site including spoil heap/ refuse tip located to the north west of the site.

Pathways

Potential pathways from source and receptor for the proposed development are:

- Direct contact with and ingestion of contaminated soil and inhalation of dust by site workers during construction and by end users of the site in garden areas.
- Inhalation of vapours by site workers during construction and by the end users of the site in enclosed spaces.
- Uptake of contaminated groundwater by plants grown in the gardens.
- Migration of contaminants to controlled waters including the underlying aquifer.
- Consumption by end users of the site of contaminated fruit and vegetables grown in the garden areas.
- Accumulation of ground gases in enclosed spaces.

Receptors

Potential receptors for the proposed development are:

- Site workers during the demolition and construction phases.
- The residents who will be the end users of the site.
- Controlled waters including the underlying aquifer.
- Plants grown in the garden areas.

Conclusions

An appraisal of the sources, pathways and receptors has been considered and we have produced a conceptual ground model based upon the available information, as follows:

TABLE 4 CONCEPTUAL GROUND MODEL

Potential Source	Nature of Hazard	Contaminants Associated with the Source	Pathway	Receptor	Preliminary Risk Rating
Made Ground on site	Contaminants in Made Ground	<u>Gen. Contaminants</u> Arsenic Cadmium Chromium Lead Mercury Molybdenum Nickel Selenium Boron Copper Zinc Cyanide Sulphide Sulphate pH Phenols Polynuclear Aromatic Hydrocarbons (PAH) Total Petroleum Hydrocarbons (TPH)	Ingestion of soil and dust	Site Operatives	Low
			Dermal contact		
			Inhalation of dust and vapours		
			Ingestion of soil and dust	End Users	Low
			Ingestion of contaminated vegetable produce		
			Dermal contact		
Inhalation of dust and vapours	Vegetation	Very Low			
Uptake via contaminated groundwater					
Vertical and lateral movement of mobile contaminants to surface water and groundwater					
Direct contact	Structures and Services	Very Low			
Asbestos on/ in ground	Asbestos fibres	Asbestos fibres	Inhalation of fibres	Site Operatives	Low
				End Users	
Tanks/ Machinery/ Vehicles associated with past domestic on and adjacent to the site.	Fuel/ oil spillage and/or leakage from machinery, fuel/oil tanks and/or vehicles	Total Petroleum Hydrocarbons (TPH) and/ or Benzene/ Toluene/ Ethylbenzene/ Xylene (BTEX)	Ingestion of soil and dust	Site Operatives	Very Low
			Dermal contact		
			Inhalation of dust and vapours		
			Ingestion of soil and dust	End Users	Very Low
			Ingestion of contaminated vegetable produce		
			Dermal contact		
Inhalation of dust and vapours	Vegetation	Very Low			
Uptake via contaminated groundwater					
Vertical and lateral movement of mobile contaminants to surface water and groundwater					
Direct contact	Structures and Services	Very Low			

Infilled ground within 250m of the site.	Ground Gas (Asphyxiation, fire and explosion)	Methane Carbon Dioxide	Inhalation of gas Ignition of gas	Site Operatives End Users	Low
Mining (1)	Ground Gas (Asphyxiation, fire and explosion)	Methane Carbon Dioxide	Inhalation of gas Ignition of gas	Site Operatives End Users	Low to Moderate
Mining (2)	Subsidence	-	-	Structures and services	Moderate

The conceptual ground model indicates that a nominal intrusive ground investigation is required to assess the ground conditions. The ground investigation should obtain soil samples for contamination analysis and asbestos detection and, where possible, groundwater and surface water samples for contamination analysis.

In addition the conceptual ground model indicates that ground gases might be present and hence gas standpipes should be installed and monitored over an extended period of time to allow for an assessment to be made.

A ground investigation is ongoing to assess the shallow ground conditions in order to provide recommendations for remedial measures against further subsidence. However, given the findings of the brief geological and mining appraisal we would recommend that a detailed geological and mining risk assessment is carried out to determine the likely presence and/ or depth of potentially worked coal seams outcropping on site and at shallow depth beneath the site. If there is a significant risk of worked coal seams being present at shallow depth that might affect the current stability and / or impact the stability of any proposed remediation scheme, a rotary borehole investigation is recommended to allow further assessment.

2.6 General

No consideration has been given to flora and fauna as this was outside our brief.

We would recommend that consultation is undertaken with and written approval obtained from the Local Council Contaminated Land Officer, the Building Control Officer and the Coal Authority

We trust that this report fulfils your present requirements but if you have any queries or we can be of further assistance please contact the undersigned or Mr David Simpson at our Ossett office.

SUB SURFACE CONSULTANTS LIMITED
REPORT No. NE4037
MAY 2021

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For and on behalf of
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For and on behalf of
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PRELIMINARY RISK RATING GUIDANCE

PRELIMINARY RISK RATING GUIDANCE

The following table based on CIRIA C552 'Contaminated Land Risk Assessment. A Guide to Good Practice' has been used when developing the Conceptual Ground Model and the preliminary risk ratings. The method requires an assessment of the magnitude of the probability or likelihood of the risk occurring and the magnitude of the potential consequence or severity of the risk occurring to formulate a preliminary risk rating (Table A).

Table A DESCRIPTION OF RISK AND LIKELY ACTION REQUIRED

Preliminary Risk Rating	Action Required
Very High Risk	<p>Extensive Ground Investigation Required.</p> <p>There is a high probability that severe harm could arise to a designated receptor from an identified hazard, or there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required.</p>
High Risk	<p>Extensive Ground Investigation Required.</p> <p>Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short-term and are likely over the longer-term.</p>
Moderate	<p>Ground Investigation Required.</p> <p>It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the long-term.</p>
Low Risk	<p>Nominal Ground Investigation Required.</p> <p>It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.</p>
Very Low Risk	<p>No Ground Investigation Required.*</p> <p>There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.</p>
Negligible Risk	<p>No Ground Investigation Required.*</p> <p>There is a very low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.</p>

* No further action is required unless unforeseen contaminated ground conditions are encountered.

PHOTOGRAPHS



SUB SURFACE

SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS
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Photographs

Site: 33 THE CRESCENT, BRIMINGTON, CHESTERFIELD
Client: CHESTERFIELD BOROUGH COUNCIL
Engineer: PROPERTY AND TECHNICAL SERVICES

Job Number:
NE4037
Sheet:
1 / 1
Survey Date:
14/04/21

WALKOVER SURVEY PHOTOGRAPHS

1



2



3



4



ENVIRO+GEO INSIGHT REPORT

33 The Crescent, Chesterfield, Brimington, S43 1AZ

Order Details

Date: 27/03/2021
Your ref: 4199
Our Ref: CMAPS-CM-950025-4199-270321EDRGEO
Client: CENTREMAPS

Site Details

Location: 439476 373343
Area: 0.02 ha
Authority: [Chesterfield Borough Council](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.11

groundsure.com/insightuserguide

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
12	1.1	<u>Historical industrial land uses</u>	2	3	19	68	-
16	1.2	<u>Historical tanks</u>	0	0	0	12	-
17	1.3	<u>Historical energy features</u>	0	0	0	6	-
17	1.4	Historical petrol stations	0	0	0	0	-
18	1.5	Historical garages	0	0	0	0	-
18	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
19	2.1	<u>Historical industrial land uses</u>	2	4	21	98	-
24	2.2	<u>Historical tanks</u>	0	0	0	13	-
25	2.3	<u>Historical energy features</u>	0	0	0	14	-
26	2.4	Historical petrol stations	0	0	0	0	-
26	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
27	3.1	Active or recent landfill	0	0	0	0	-
27	3.2	Historical landfill (BGS records)	0	0	0	0	-
28	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
28	3.4	<u>Historical landfill (EA/NRW records)</u>	0	0	0	1	-
28	3.5	Historical waste sites	0	0	0	0	-
28	3.6	Licensed waste sites	0	0	0	0	-
29	3.7	<u>Waste exemptions</u>	0	0	0	14	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
31	4.1	<u>Recent industrial land uses</u>	0	1	1	-	-
32	4.2	<u>Current or recent petrol stations</u>	0	0	0	1	-
32	4.3	Electricity cables	0	0	0	0	-
32	4.4	Gas pipelines	0	0	0	0	-
32	4.5	Sites determined as Contaminated Land	0	0	0	0	-



32	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
33	4.7	Regulated explosive sites	0	0	0	0	-
33	4.8	Hazardous substance storage/usage	0	0	0	0	-
33	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
33	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
33	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	0	3	-
34	4.12	Radioactive Substance Authorisations	0	0	0	0	-
34	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	2	7	-
36	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
36	4.15	Pollutant release to public sewer	0	0	0	0	-
36	4.16	List 1 Dangerous Substances	0	0	0	0	-
36	4.17	List 2 Dangerous Substances	0	0	0	0	-
37	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	0	4	-
37	4.19	Pollution inventory substances	0	0	0	0	-
38	4.20	Pollution inventory waste transfers	0	0	0	0	-
38	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
39	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
40	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
41	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
42	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
42	5.5	Groundwater vulnerability- local information	None (within 0m)				
43	5.6	Groundwater abstractions	0	0	0	0	0
44	5.7	<u>Surface water abstractions</u>	0	0	0	0	2
44	5.8	Potable abstractions	0	0	0	0	0
45	5.9	Source Protection Zones	0	0	0	0	-
45	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
46	6.1	<u>Water Network (OS MasterMap)</u>	0	0	5	-	-



47	6.2	<u>Surface water features</u>	0	0	3	-	-
47	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
48	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
48	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
49	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
49	7.2	Historical Flood Events	0	0	0	-	-
49	7.3	Flood Defences	0	0	0	-	-
49	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
50	7.5	Flood Storage Areas	0	0	0	-	-
51	7.6	Flood Zone 2	None (within 50m)				
51	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
52	8.1	<u>Surface water flooding</u>	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
54	9.1	<u>Groundwater flooding</u>	Negligible (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
55	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
56	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
56	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
56	10.4	Special Protection Areas (SPA)	0	0	0	0	0
56	10.5	National Nature Reserves (NNR)	0	0	0	0	0
57	10.6	<u>Local Nature Reserves (LNR)</u>	0	0	0	0	2
57	10.7	Designated Ancient Woodland	0	0	0	0	0
57	10.8	Biosphere Reserves	0	0	0	0	0
57	10.9	Forest Parks	0	0	0	0	0
58	10.10	Marine Conservation Zones	0	0	0	0	0
58	10.11	<u>Green Belt</u>	0	0	0	0	2
58	10.12	Proposed Ramsar sites	0	0	0	0	0



58	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
59	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
59	10.15	Nitrate Sensitive Areas	0	0	0	0	0
59	10.16	<u>Nitrate Vulnerable Zones</u>	1	0	0	0	0
60	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
61	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
62	11.1	World Heritage Sites	0	0	0	-	-
62	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
62	11.3	National Parks	0	0	0	-	-
62	11.4	Listed Buildings	0	0	0	-	-
63	11.5	Conservation Areas	0	0	0	-	-
63	11.6	Scheduled Ancient Monuments	0	0	0	-	-
63	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
64	12.1	<u>Agricultural Land Classification</u>	Grade 4 (within 250m)				
65	12.2	Open Access Land	0	0	0	-	-
65	12.3	Tree Felling Licences	0	0	0	-	-
65	12.4	Environmental Stewardship Schemes	0	0	0	-	-
65	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
66	13.1	<u>Priority Habitat Inventory</u>	0	0	2	-	-
67	13.2	Habitat Networks	0	0	0	-	-
67	13.3	Open Mosaic Habitat	0	0	0	-	-
67	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
68	14.1	<u>10k Availability</u>	Identified (within 500m)				
69	14.2	<u>Artificial and made ground (10k)</u>	0	1	2	10	-
71	14.3	<u>Superficial geology (10k)</u>	0	0	0	1	-



72	14.4	Landslip (10k)	0	0	0	0	-
73	14.5	<u>Bedrock geology (10k)</u>	1	0	4	2	-
74	14.6	<u>Bedrock faults and other linear features (10k)</u>	1	2	10	30	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
77	15.1	<u>50k Availability</u>	Identified (within 500m)				
78	15.2	<u>Artificial and made ground (50k)</u>	0	1	1	6	-
79	15.3	<u>Artificial ground permeability (50k)</u>	0	1	-	-	-
80	15.4	<u>Superficial geology (50k)</u>	0	0	0	1	-
81	15.5	Superficial permeability (50k)	None (within 50m)				
81	15.6	Landslip (50k)	0	0	0	0	-
81	15.7	Landslip permeability (50k)	None (within 50m)				
82	15.8	<u>Bedrock geology (50k)</u>	1	0	4	1	-
83	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
83	15.10	<u>Bedrock faults and other linear features (50k)</u>	0	0	4	9	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
85	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence					
86	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
87	17.2	<u>Running sands</u>	Very low (within 50m)				
89	17.3	<u>Compressible deposits</u>	Very low (within 50m)				
91	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
92	17.5	<u>Landslides</u>	Very low (within 50m)				
93	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
94	18.1	Natural cavities	0	0	0	0	-
95	18.2	<u>BritPits</u>	0	0	1	4	-
96	18.3	<u>Surface ground workings</u>	1	3	11	-	-
97	18.4	<u>Underground workings</u>	1	0	11	20	16
99	18.5	Historical Mineral Planning Areas	0	0	0	0	-



99	18.6	<u>Non-coal mining</u>		1	0	0	0	1
99	18.7	Mining cavities		0	0	0	0	0
100	18.8	<u>JPB mining areas</u>		Identified (within 0m)				
100	18.9	<u>Coal mining</u>		Identified (within 0m)				
100	18.10	Brine areas		None (within 0m)				
100	18.11	Gypsum areas		None (within 0m)				
101	18.12	Tin mining		None (within 0m)				
101	18.13	Clay mining		None (within 0m)				
Page	Section	Radon						
102	19.1	<u>Radon</u>		Between 1% and 3% (within 0m)				
Page	Section	Soil chemistry		On site	0-50m	50-250m	250-500m	500-2000m
103	20.1	<u>BGS Estimated Background Soil Chemistry</u>		1	1	-	-	-
103	20.2	BGS Estimated Urban Soil Chemistry		0	0	-	-	-
103	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
104	21.1	Underground railways (London)		0	0	0	-	-
104	21.2	Underground railways (Non-London)		0	0	0	-	-
105	21.3	Railway tunnels		0	0	0	-	-
105	21.4	<u>Historical railway and tunnel features</u>		0	3	0	-	-
105	21.5	Royal Mail tunnels		0	0	0	-	-
105	21.6	Historical railways		0	0	0	-	-
106	21.7	Railways		0	0	0	-	-
106	21.8	Crossrail 1		0	0	0	0	-
106	21.9	Crossrail 2		0	0	0	0	-
106	21.10	HS2		0	0	0	0	-

Recent aerial photograph



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Capture Date: 08/04/2017

Site Area: 0.02ha



Recent site history - 2010 aerial photograph



Capture Date: 25/10/2010

Site Area: 0.02ha



Recent site history - 1999 aerial photograph

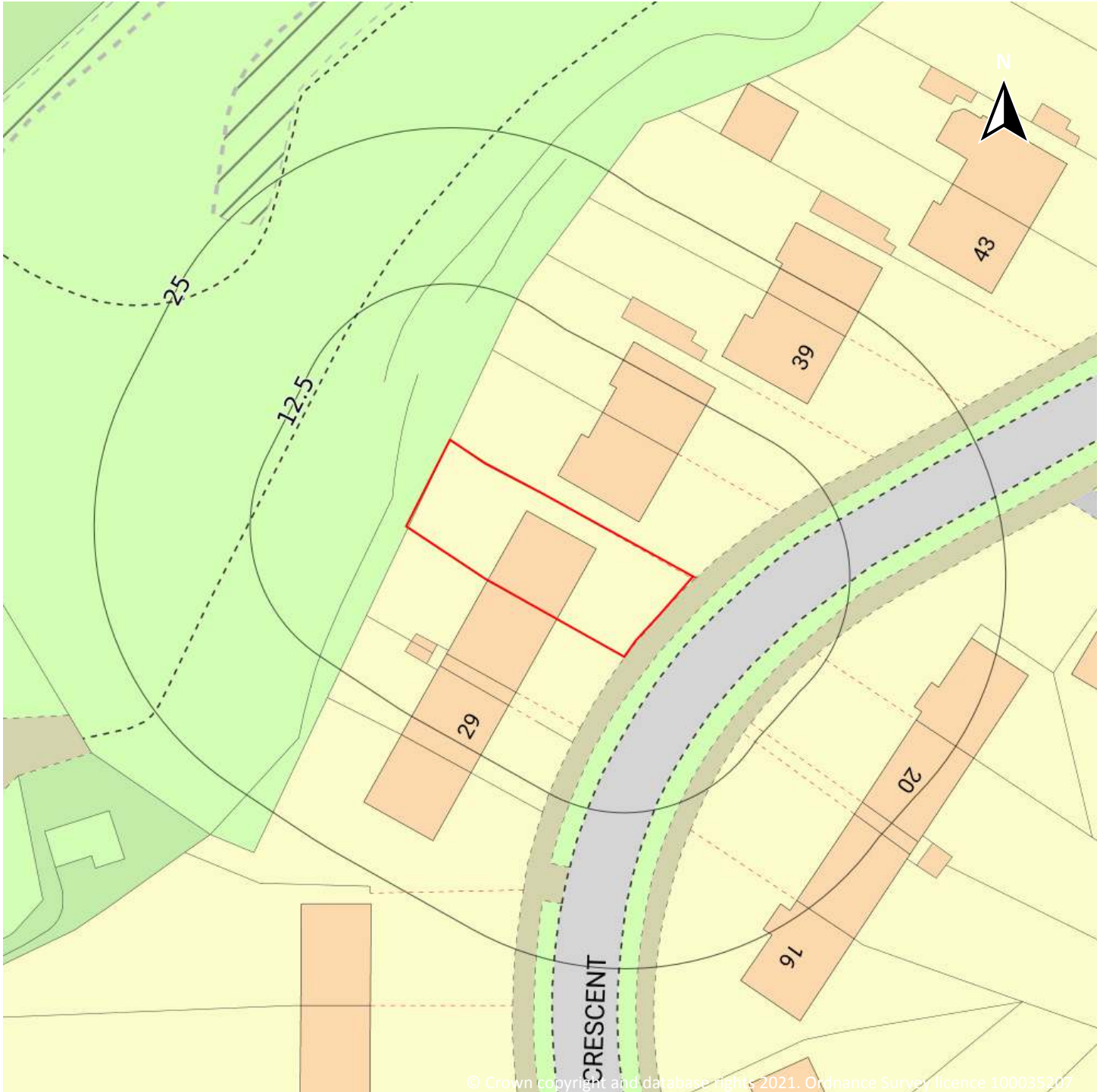


Capture Date: 30/07/1999

Site Area: 0.02ha



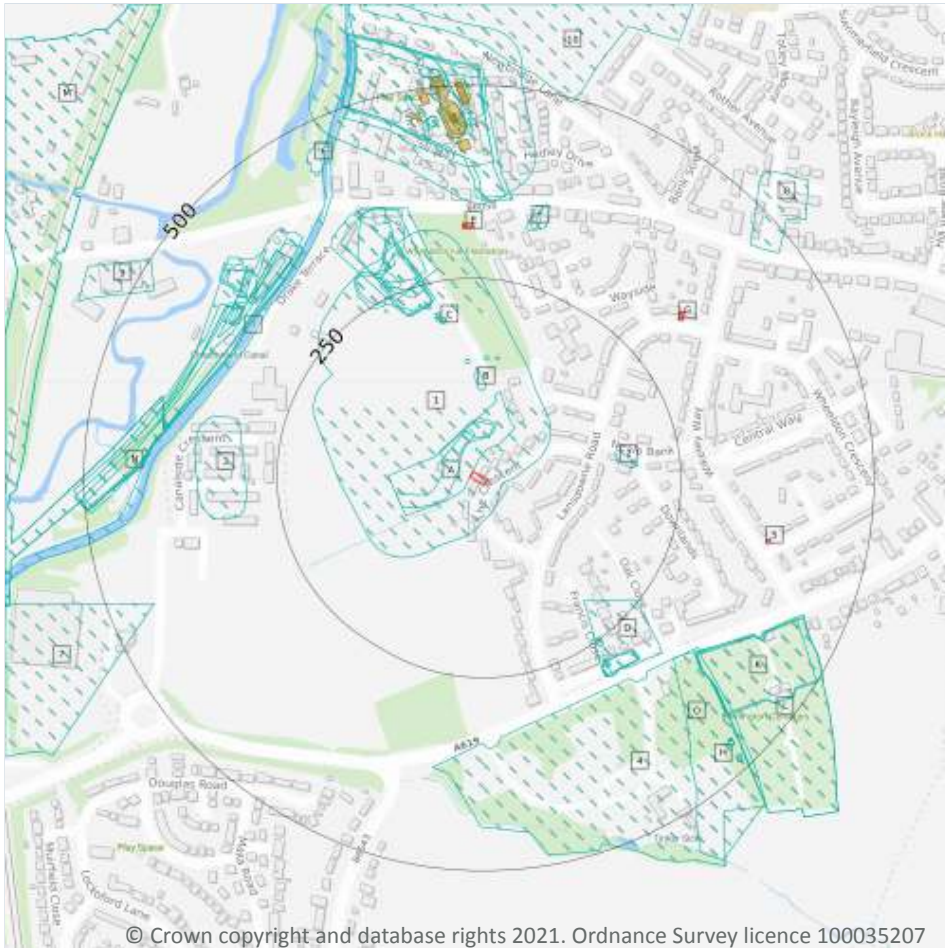
OS MasterMap site plan



Site Area: 0.02ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m **92**

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 12**

ID	Location	Land use	Dates present	Group ID
1	On site	Colliery	1897	1564372

ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Mine	1968	1611756
A	17m W	Railway Sidings	1968	1560908
A	24m NW	Unspecified Disused Tip	1976 - 1991	1744524
A	44m N	Refuse Heap	1968	1597503
B	104m N	Unspecified Pit	1897	1609694
B	140m N	Unspecified Old Shafts	1897	1559497
B	145m N	Unspecified Old Shafts	1897	1559499
B	148m N	Unspecified Old Shaft	1876	1571482
2	168m E	Unspecified Old Quarry	1876	1600964
C	195m N	Old Air Shaft	1897	1571966
C	197m N	Unspecified Old Shaft	1954	1571487
D	199m SE	Colliery	1876	1564373
C	200m N	Old Air Shaft	1914	1675646
C	204m N	Unspecified Old Shaft	1947	1571488
C	204m N	Old Air Shaft	1921 - 1938	1697721
C	216m N	Brick Works	1897	1583803
C	216m N	Unspecified Pit	1897	1609698
C	218m N	Unspecified Ground Workings	1897 - 1914	1655873
C	219m N	Unspecified Heap	1921 - 1938	1691288
C	237m N	Unspecified Ground Workings	1954	1665458
C	243m NW	Brick Yard	1876	1602085
D	247m SE	Unspecified Shaft	1876	1579152
C	250m N	Unspecified Heap	1947	1663195
D	251m SE	Old Coal Shaft	1921 - 1938	1657178
D	252m SE	Unspecified Old Shaft	1897	1571481
D	268m SE	Unspecified Ground Workings	1921	1566342
D	276m SE	Old Coal Pit	1938	1736384
D	276m SE	Old Coal Pit	1897	1750223



ID	Location	Land use	Dates present	Group ID
D	278m SE	Old Air Shaft	1921	1741911
D	280m SE	Old Air Shaft	1921 - 1938	1654086
C	285m NW	Unspecified Pit	1876	1609699
3	290m W	Unspecified Pit	1968 - 1991	1672313
4	307m SE	Crematorium	1968 - 1991	1738230
F	320m N	Unspecified Ground Workings	1897	1566340
F	323m N	Unspecified Pit	1876	1609692
H	333m SE	Disused Colliery	1876	1589381
I	334m NW	Disused Canal	1968 - 1991	1734500
I	344m NW	Railway Sidings	1921	1634318
I	346m NW	Railway Sidings	1954	1740539
J	347m N	Unspecified Works	1968 - 1976	1736390
K	348m SE	Cemetery	1897 - 1938	1697176
K	350m SE	Cemetery	1921	1747835
I	350m NW	Railway Sidings	1947	1618040
I	350m NW	Railway Sidings	1938	1676095
I	350m NW	Railway Sidings	1897	1691243
J	351m N	Sewage Works	1954	1634831
L	353m SE	Cemetery	1968 - 1991	1617031
L	353m SE	Cemetery	1954	1674738
J	355m N	Sewage Works	1914	1702033
I	355m NW	Unspecified Works	1991	1598504
I	357m NW	Railway Sidings	1914	1613822
I	359m NW	Railway Building	1954	1628844
I	363m NW	Railway Building	1921 - 1947	1620163
I	363m NW	Railway Building	1897	1659217
I	366m NW	Railway Building	1914	1652241
I	372m NW	Railway Station	1954	1633231



ID	Location	Land use	Dates present	Group ID
I	378m NW	Railway Station	1897	1617257
I	380m NW	Railway Station	1914 - 1947	1733330
J	394m N	Sewage Works	1921	1726238
M	400m W	Railway Sidings	1938	1613834
M	400m W	Railway Sidings	1945	1613835
M	400m W	Railway Sidings	1945	1613836
N	400m W	Railway Sidings	1899	1613757
O	400m SE	Unspecified Old Shaft	1876	1571605
N	401m W	Railway Sidings	1914	1613821
O	404m SE	Unspecified Old Shafts	1876	1559503
J	418m N	Sewage Works	1938 - 1947	1740590
6	432m NW	Flour Mill	1876	1589759
J	433m N	Unspecified Ground Workings	1954	1566341
J	435m N	Unspecified Tanks	1921	1618608
J	437m N	Unspecified Tanks	1976	1619956
J	437m N	Unspecified Tanks	1968	1661580
7	441m W	Colliery	1876	1564370
J	445m N	Unspecified Covered Tank	1954	1607482
J	448m N	Sewage Tank	1897	1575675
J	448m N	Unspecified Tank	1914	1692142
J	450m N	Unspecified Tank	1938	1675862
J	451m N	Unspecified Tanks	1938 - 1947	1677781
J	453m N	Unspecified Tanks	1921	1684495
8	457m NE	Brick Yard	1876	1602091
H	457m SE	Unspecified Old Shafts	1876	1656787
H	458m SE	Old Coal Shafts	1921 - 1938	1674248
H	459m SE	Old Coal Shaft	1921	1564037
H	459m SE	Unspecified Old Shafts	1897	1673667



ID	Location	Land use	Dates present	Group ID
J	461m N	Unspecified Tanks	1938 - 1954	1747270
9	474m NW	Unspecified Depot	1968 - 1991	1723754
J	479m N	Unspecified Tanks	1968 - 1976	1697567
H	480m SE	Old Coal Shafts	1921 - 1938	1722500
H	482m SE	Unspecified Old Shafts	1897	1559504
J	492m N	Unspecified Tank	1947	1648725
10	494m N	Opencast Workings	1991	1577131

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

12

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 12**

ID	Location	Land use	Dates present	Group ID
J	415m N	Settling Tanks	1978	259047
J	433m N	Tanks	1963 - 1964	276407
J	440m N	Unspecified Tank	1938	254777
J	446m N	Settling Tanks	1978	259046
J	451m N	Rural District Council Sewage Tank	1898	259420
J	454m N	Unspecified Tank	1916	254778
J	458m N	Settling Tanks	1978	259040
J	465m N	Unspecified Tank	1938	254783
J	474m N	Tanks	1963	260669
J	476m N	Settling Tanks	1978	259045
J	478m N	Settling Tanks	1978	259043



ID	Location	Land use	Dates present	Group ID
J	483m N	Settling Tanks	1978	259044

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	6
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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 12**

ID	Location	Land use	Dates present	Group ID
E	315m N	Electricity Substation	1978	155255
E	315m N	Electricity Substation	1990	167363
E	316m N	Electricity Substation	1996	160435
G	322m NE	Electricity Substation	1967	158939
G	328m NE	Electricity Substation	1984 - 1997	159568
5	368m E	Electricity Substation	1978 - 1993	152789

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0
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Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

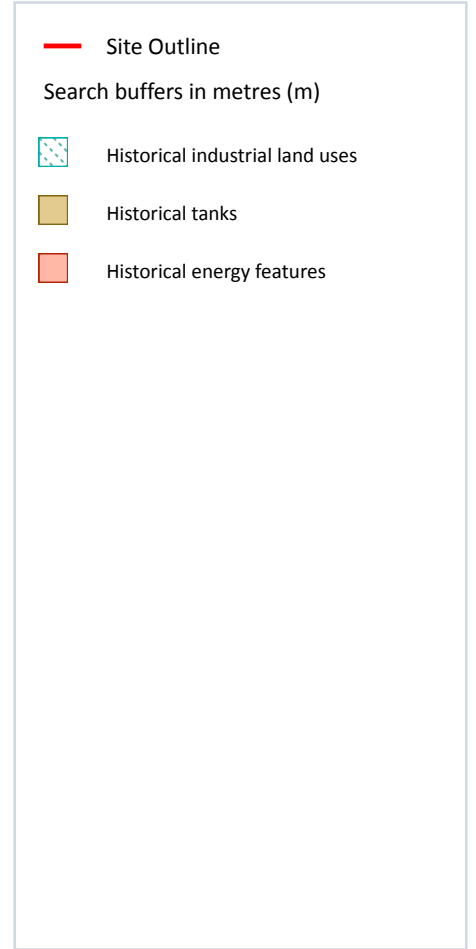
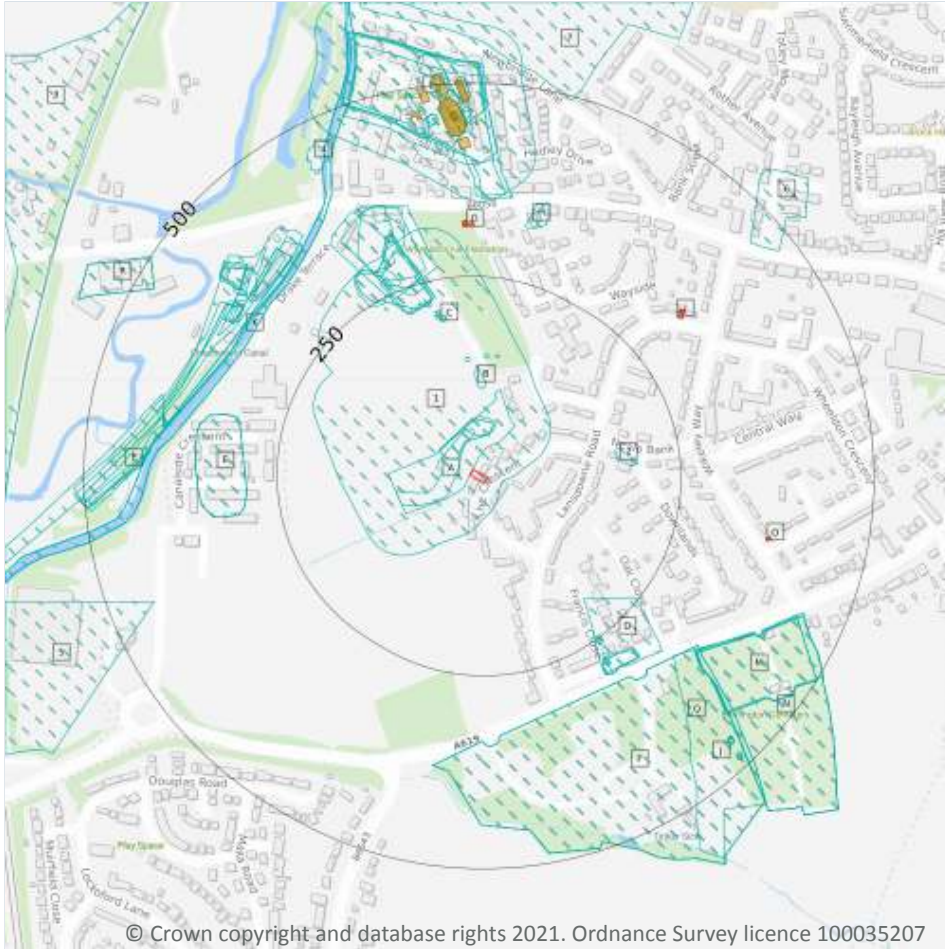
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Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

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



2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m

125

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 19**

ID	Location	Land Use	Date	Group ID
1	On site	Colliery	1897	1564372
A	On site	Unspecified Mine	1968	1611756
A	17m W	Railway Sidings	1968	1560908

ID	Location	Land Use	Date	Group ID
A	24m NW	Unspecified Disused Tip	1991	1744524
A	24m NW	Unspecified Disused Tip	1976	1744524
A	44m N	Refuse Heap	1968	1597503
B	104m N	Unspecified Pit	1897	1609694
B	140m N	Unspecified Old Shafts	1897	1559497
B	145m N	Unspecified Old Shafts	1897	1559499
B	148m N	Unspecified Old Shaft	1876	1571482
2	168m E	Unspecified Old Quarry	1876	1600964
C	195m N	Old Air Shaft	1897	1571966
C	197m N	Unspecified Old Shaft	1954	1571487
D	199m SE	Colliery	1876	1564373
C	200m N	Old Air Shaft	1914	1675646
C	204m N	Unspecified Old Shaft	1947	1571488
C	204m N	Old Air Shaft	1921	1697721
C	204m N	Old Air Shaft	1938	1697721
C	216m N	Unspecified Pit	1897	1609698
C	216m N	Brick Works	1897	1583803
C	218m N	Unspecified Ground Workings	1914	1655873
C	219m N	Unspecified Heap	1938	1691288
C	219m N	Unspecified Heap	1921	1691288
C	237m N	Unspecified Ground Workings	1954	1665458
C	243m NW	Brick Yard	1876	1602085
D	247m SE	Unspecified Shaft	1876	1579152
C	250m N	Unspecified Heap	1947	1663195
D	251m SE	Old Coal Shaft	1921	1657178
D	252m SE	Old Coal Shaft	1938	1657178
D	252m SE	Old Coal Shaft	1921	1657178
D	252m SE	Unspecified Old Shaft	1897	1571481



ID	Location	Land Use	Date	Group ID
D	268m SE	Unspecified Ground Workings	1921	1566342
D	276m SE	Old Coal Pit	1938	1736384
D	276m SE	Old Coal Pit	1897	1750223
D	278m SE	Old Air Shaft	1921	1741911
D	280m SE	Old Air Shaft	1938	1654086
D	280m SE	Old Air Shaft	1921	1654086
C	285m NW	Unspecified Pit	1876	1609699
E	290m W	Unspecified Pit	1991	1672313
E	290m W	Unspecified Pit	1968	1672313
E	290m W	Unspecified Pit	1976	1672313
F	307m SE	Crematorium	1991	1738230
F	307m SE	Crematorium	1968	1738230
F	307m SE	Crematorium	1976	1738230
C	312m N	Unspecified Ground Workings	1897	1655873
H	320m N	Unspecified Ground Workings	1897	1566340
H	323m N	Unspecified Pit	1876	1609692
J	333m SE	Disused Colliery	1876	1589381
K	334m NW	Disused Canal	1991	1734500
K	334m NW	Disused Canal	1968	1734500
K	334m NW	Disused Canal	1976	1734500
K	344m NW	Railway Sidings	1921	1634318
K	346m NW	Railway Sidings	1954	1740539
L	347m N	Unspecified Works	1976	1736390
M	348m SE	Cemetery	1938	1697176
M	348m SE	Cemetery	1897	1697176
M	348m SE	Cemetery	1921	1697176
M	350m SE	Cemetery	1921	1747835
K	350m NW	Railway Sidings	1947	1618040



ID	Location	Land Use	Date	Group ID
K	350m NW	Railway Sidings	1938	1676095
K	350m NW	Railway Sidings	1897	1691243
L	351m N	Sewage Works	1954	1634831
N	353m SE	Cemetery	1954	1674738
N	353m SE	Cemetery	1991	1617031
N	353m SE	Cemetery	1968	1617031
N	353m SE	Cemetery	1976	1617031
L	355m N	Sewage Works	1914	1702033
K	355m NW	Unspecified Works	1991	1598504
K	357m NW	Railway Sidings	1914	1613822
K	359m NW	Railway Building	1954	1628844
K	363m NW	Railway Building	1947	1620163
K	363m NW	Railway Building	1938	1620163
K	363m NW	Railway Building	1897	1659217
K	363m NW	Railway Building	1921	1620163
K	366m NW	Railway Building	1914	1652241
K	372m NW	Railway Station	1954	1633231
K	378m NW	Railway Station	1897	1617257
K	380m NW	Railway Station	1914	1733330
K	382m NW	Railway Station	1947	1733330
K	382m NW	Railway Station	1938	1733330
K	382m NW	Railway Station	1921	1733330
L	394m N	Sewage Works	1921	1726238
L	397m N	Unspecified Works	1968	1736390
P	400m W	Railway Sidings	1945	1613836
P	400m W	Railway Sidings	1899	1613757
Q	400m SE	Unspecified Old Shaft	1876	1571605
3	401m W	Railway Sidings	1938	1613834



ID	Location	Land Use	Date	Group ID
P	401m W	Railway Sidings	1914	1613821
Q	404m SE	Unspecified Old Shafts	1876	1559503
L	418m N	Sewage Works	1947	1740590
L	418m N	Sewage Works	1938	1740590
4	432m NW	Flour Mill	1876	1589759
L	433m N	Unspecified Ground Workings	1954	1566341
L	435m N	Unspecified Tanks	1921	1618608
L	437m N	Unspecified Tanks	1968	1661580
L	437m N	Unspecified Tanks	1976	1619956
5	441m W	Colliery	1876	1564370
L	445m N	Unspecified Covered Tank	1954	1607482
L	448m N	Sewage Tank	1897	1575675
L	448m N	Unspecified Tank	1914	1692142
L	450m N	Unspecified Tank	1938	1675862
L	451m N	Unspecified Tanks	1947	1677781
L	451m N	Unspecified Tanks	1938	1677781
L	453m N	Unspecified Tanks	1921	1684495
6	457m NE	Brick Yard	1876	1602091
J	457m SE	Unspecified Old Shafts	1876	1656787
J	458m SE	Old Coal Shafts	1921	1674248
J	459m SE	Old Coal Shafts	1938	1674248
J	459m SE	Old Coal Shaft	1921	1564037
J	459m SE	Unspecified Old Shafts	1897	1673667
L	461m N	Unspecified Tanks	1954	1747270
L	469m N	Unspecified Tanks	1947	1747270
L	469m N	Unspecified Tanks	1938	1747270
R	474m NW	Unspecified Depot	1991	1723754
R	474m NW	Unspecified Depot	1968	1723754



ID	Location	Land Use	Date	Group ID
R	474m NW	Unspecified Depot	1976	1723754
L	479m N	Unspecified Tanks	1968	1697567
L	479m N	Unspecified Tanks	1976	1697567
J	480m SE	Old Coal Shafts	1921	1722500
J	482m SE	Old Coal Shafts	1938	1722500
J	482m SE	Old Coal Shafts	1921	1722500
J	482m SE	Unspecified Old Shafts	1897	1559504
L	482m N	Unspecified Tanks	1954	1747270
L	492m N	Unspecified Tank	1947	1648725
7	494m N	Opencast Workings	1991	1577131

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

13

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 19**

ID	Location	Land Use	Date	Group ID
L	415m N	Settling Tanks	1978	259047
L	433m N	Tanks	1964	276407
L	433m N	Tanks	1963	276407
L	440m N	Unspecified Tank	1938	254777
L	446m N	Settling Tanks	1978	259046
L	451m N	Rural District Council Sewage Tank	1898	259420
L	454m N	Unspecified Tank	1916	254778
L	458m N	Settling Tanks	1978	259040
L	465m N	Unspecified Tank	1938	254783
L	474m N	Tanks	1963	260669



ID	Location	Land Use	Date	Group ID
L	476m N	Settling Tanks	1978	259045
L	478m N	Settling Tanks	1978	259043
L	483m N	Settling Tanks	1978	259044

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

14

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 19**

ID	Location	Land Use	Date	Group ID
G	315m N	Electricity Substation	1978	155255
G	315m N	Electricity Substation	1990	167363
G	316m N	Electricity Substation	1996	160435
G	316m N	Electricity Substation	1996	160435
I	322m NE	Electricity Substation	1967	158939
I	328m NE	Electricity Substation	1984	159568
I	328m NE	Electricity Substation	1990	159568
I	329m NE	Electricity Substation	1993	159568
I	329m NE	Electricity Substation	1996	159568
I	329m NE	Electricity Substation	1996	159568
I	329m NE	Electricity Substation	1997	159568
I	329m NE	Electricity Substation	1993	159568
O	368m E	Electricity Substation	1978	152789
O	368m E	Electricity Substation	1993	152789

This data is sourced from Ordnance Survey / Groundsure.



2.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

0


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

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
-  Historical landfill (EA/NRW)
- 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	1
----------------------------	----------

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.

Features are displayed on the Waste and landfill map on **page 27**

ID	Location	Details		
4	497m N	Site Address: Former Dixon Open Cast Coal Site, Chesterfield, Derbyshire Licence Holder Address: -	Waste Licence: Yes Site Reference: LS84 Waste Type: Industrial, Special Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 21/10/1986 Licence Surrender: -	Operator: Stanton Plc Licence Holder: Stanton Plc First Recorded 31/12/1986 Last Recorded: -

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

3.5 Historical waste sites

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

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

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

3.6 Licensed waste sites

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

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

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

3.7 Waste exemptions

Records within 500m

14

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 27**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	298m NW	Ryecroft Farm Station Road CHESTERFIELD Derbyshire S43 1LR	EPR/TF0830SN /A001	Disposing of waste exemption	Agricultura l Waste Only	Deposit of waste from dredging of inland waters
A	298m NW	Ryecroft Farm Station Road CHESTERFIELD Derbyshire S43 1LR	EPR/TF0830SN /A001	Disposing of waste exemption	Agricultura l Waste Only	Burning waste in the open
A	298m NW	Ryecroft Farm Station Road CHESTERFIELD Derbyshire S43 1LR	EPR/TF0830SN /A001	Treating waste exemption	Agricultura l Waste Only	Cleaning, washing, spraying or coating relevant waste
A	298m NW	Ryecroft Farm Station Road CHESTERFIELD Derbyshire S43 1LR	EPR/TF0830SN /A001	Treating waste exemption	Agricultura l Waste Only	Sorting mixed waste
A	298m NW	Ryecroft Farm Station Road CHESTERFIELD Derbyshire S43 1LR	EPR/TF0830SN /A001	Treating waste exemption	Agricultura l Waste Only	Screening and blending of waste
A	298m NW	Ryecroft Farm Station Road CHESTERFIELD Derbyshire S43 1LR	EPR/TF0830SN /A001	Treating waste exemption	Agricultura l Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	298m NW	Ryecroft Farm Station Road CHESTERFIELD Derbyshire S43 1LR	EPR/TF0830SN /A001	Treating waste exemption	Agricultura l Waste Only	Recovery of scrap metal
A	298m NW	Ryecroft Farm Station Road CHESTERFIELD Derbyshire S43 1LR	EPR/TF0830SN /A001	Using waste exemption	Agricultura l Waste Only	Use of waste in construction
A	298m NW	Ryecroft Farm Station Road CHESTERFIELD Derbyshire S43 1LR	EPR/TF0830SN /A001	Using waste exemption	Agricultura l Waste Only	Spreading waste on agricultural land to confer benefit
A	298m NW	Ryecroft Farm Station Road CHESTERFIELD Derbyshire S43 1LR	EPR/TF0830SN /A001	Using waste exemption	Agricultura l Waste Only	Use of mulch
A	298m NW	Ryecroft Farm Station Road CHESTERFIELD Derbyshire S43 1LR	EPR/TF0830SN /A001	Using waste exemption	Agricultura l Waste Only	Use of waste for a specified purpose

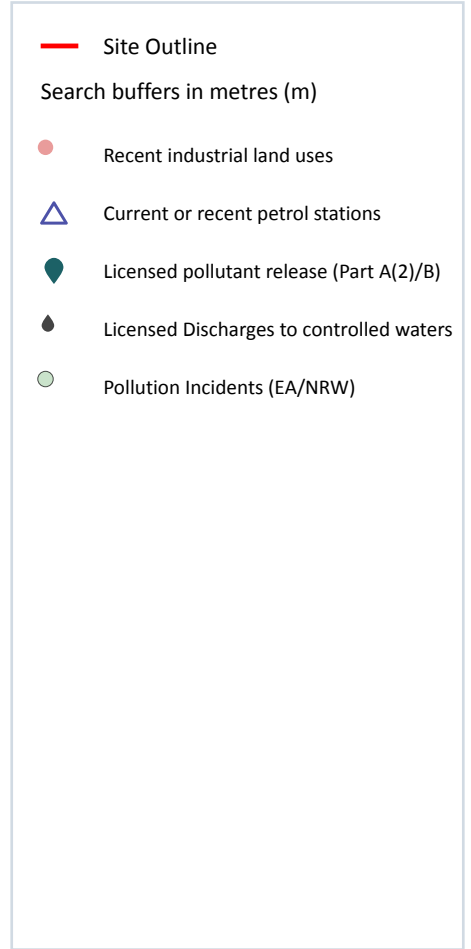
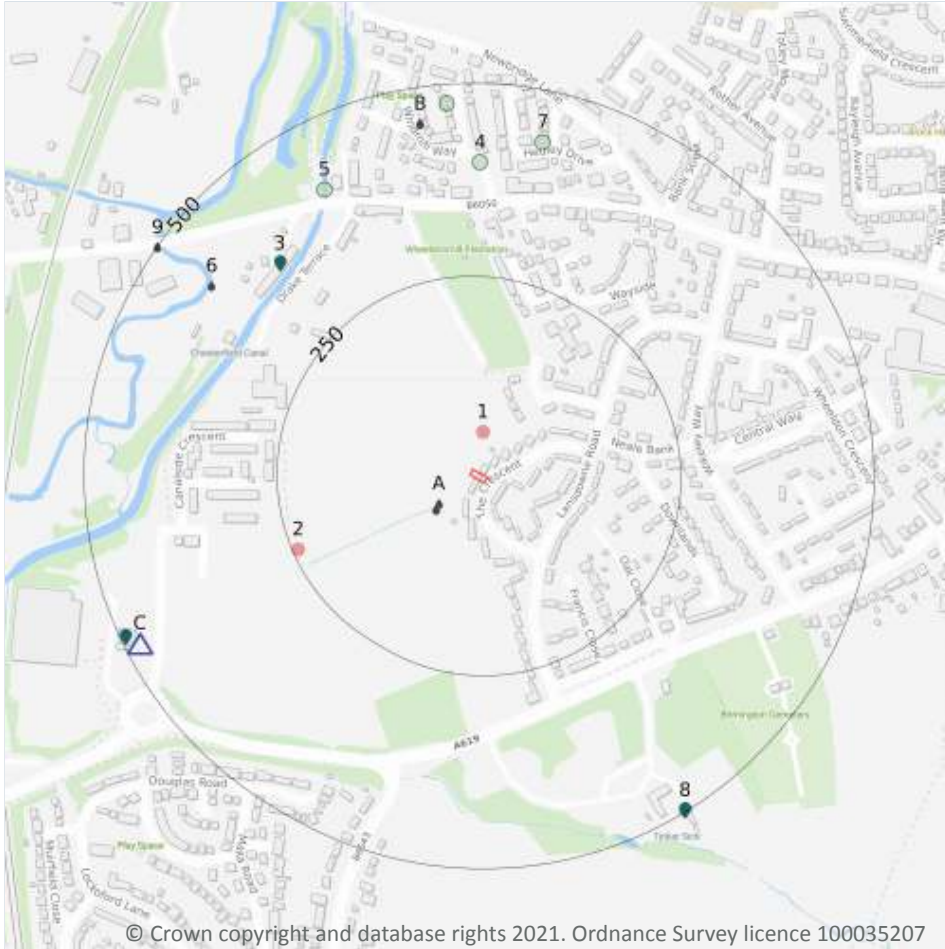


ID	Location	Site	Reference	Category	Sub-Category	Description
1	319m W	former Greyhound Stadium, Station Road, Brimington, Chesterfield, S43 1LR	WEX142263	Using waste exemption	Not on a farm	Use of waste in construction
2	456m S	Calow Green Farm Calow Green CHESTERFIELD Derbyshire S44 5XQ	EPR/ZH0271U D/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
3	463m NW	FIRST STAGE HOUSE, BRIMINGTON ROAD NORTH, CHESTERFIELD, S41 9BE	WEX227938	Disposing of waste exemption	Not on a farm	Burning waste in the open

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



4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m **2**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 31**

ID	Location	Company	Address	Activity	Category
1	50m N	Slag Heap (Disused)	Derbyshire, S43	Waste Storage, Processing and Disposal	Infrastructure and Facilities
2	243m SW	Pipeline	Derbyshire, S43	Pipelines	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	1
----------------------------	----------

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 31**

ID	Location	Company	Address	LPG	Status
C	480m SW	SAINSBURYS	Rother Way, Tapton, Chesterfield, Derbyshire, S41 0UB	No	Open

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 **3**

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 31**

ID	Location	Address	Details	
3	365m NW	Nu-Lux, Old Station Yard, Brimington, Chesterfield, Derbyshire, S43 1LS	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
C	493m SW	Sainsburys Supermarkets Ltd, Rother Way, Tapton, Chesterfield, Derbyshire, S41 0UB	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
8	498m SE	Chesterfield Borough Council, Chesterfield Road, Brimington, Chesterfield, Derbyshire, S43 1AU	Process: Crematoria Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement 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

9

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 31**

ID	Location	Address	Details	
A	55m SW	HILL VIEW ROAD NO 2 CSO, BRIMINGTON, CHESTERFIELD	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA7948 Permit Version: 2 Receiving Water: TRIB OF TINKER SICK	Status: VARIED UNDER EPR 2010 Issue date: 15/11/2017 Effective Date: 15/11/2017 Revocation Date: -



ID	Location	Address	Details	
A	64m SW	HILL VIEW ROAD NO 2 CSO, BRIMINGTON, CHESTERFIELD	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA7948 Permit Version: 1 Receiving Water: TRIB OF TINKER SICK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 18/11/2003 Effective Date: 31/03/2004 Revocation Date: 14/11/2017
6	413m NW	BRIMINGTON STATION YD SEW PMPNG STN, OFF STATION ROAD, BRIMINGTON, CHESTERFIELD, SOUTH YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA7664 Permit Version: 1 Receiving Water: RIVER ROTHER	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 13/03/2001 Effective Date: 13/03/2001 Revocation Date: -
B	452m N	BRIMINGTON WPC WORKS STORM TANKS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 2828 Permit Version: 1 Receiving Water: -	Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 01/01/1982 Effective Date: 01/01/1982 Revocation Date: 12/02/1986
B	452m N	BRIMINGTON WPC WORKS STORM TANKS	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 2828 Permit Version: 1 Receiving Water: -	Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 01/01/1982 Effective Date: 01/01/1982 Revocation Date: 12/02/1986
B	452m N	BRIMINGTON WPC WORKS STORM TANKS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 2828 Permit Version: 2 Receiving Water: -	Status: TRANSFERRED FROM COPA 1974 Issue date: 13/02/1986 Effective Date: 13/02/1986 Revocation Date: 12/03/1986
B	452m N	BRIMINGTON WPC WORKS STORM TANKS	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 2828 Permit Version: 2 Receiving Water: -	Status: TRANSFERRED FROM COPA 1974 Issue date: 13/02/1986 Effective Date: 13/02/1986 Revocation Date: 12/03/1986
B	452m N	BRIMINGTON WPC WORKS STORM TANKS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 2828 Permit Version: 3 Receiving Water: -	Status: REVOKED - UNSPECIFIED Issue date: 13/03/1986 Effective Date: 13/03/1986 Revocation Date: 14/05/1991



ID	Location	Address	Details	
9	499m NW	FITZWISE LIMITED STATION ROAD L.O.M WHEELDON MILL CHESTERFIELD OUT, LET 1 TORIVER ROTHER	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: C4288 Permit Version: 1 Receiving Water: -	Status: CONSENT REVOKED - DISCHARGE CEASED (WRA 91, SCHED 10 & 6) Issue date: 27/06/1986 Effective Date: 27/06/1986 Revocation Date: 01/03/1991

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0
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Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

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

4.15 Pollutant release to public sewer

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

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

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

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

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

4.17 List 2 Dangerous Substances

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

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

4

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 31**

ID	Location	Details	
4	397m N	Incident Date: 10/11/2016 Incident Identification: 1484006 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
5	410m NW	Incident Date: 02/06/2004 Incident Identification: 241323 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 1 (Major) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
7	432m N	Incident Date: 13/06/2016 Incident Identification: 1443387 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
B	474m N	Incident Date: 04/05/2016 Incident Identification: 1432022 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)

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

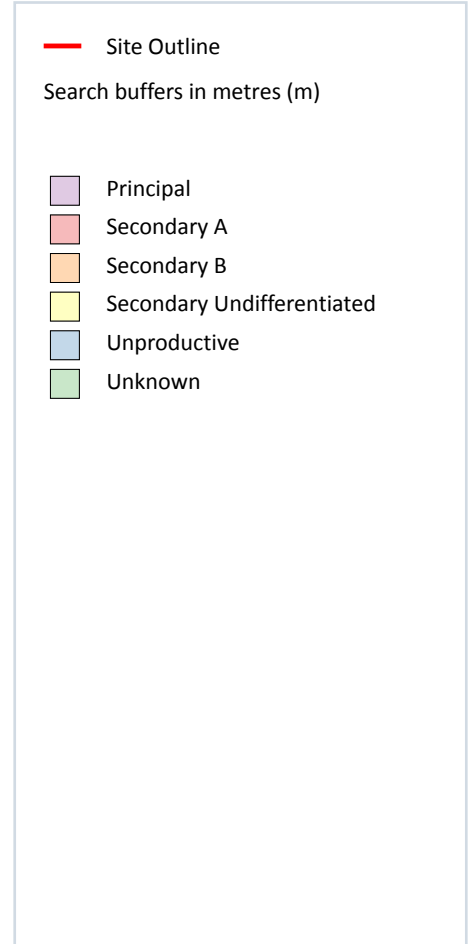
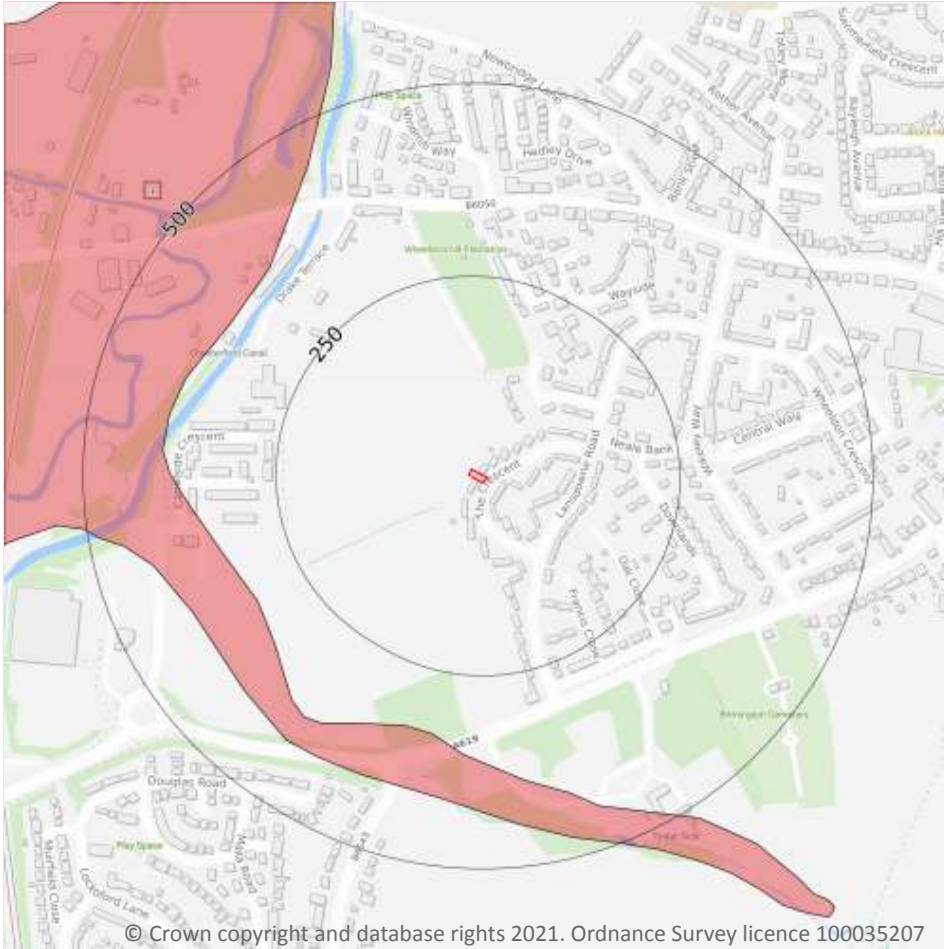
0

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

1

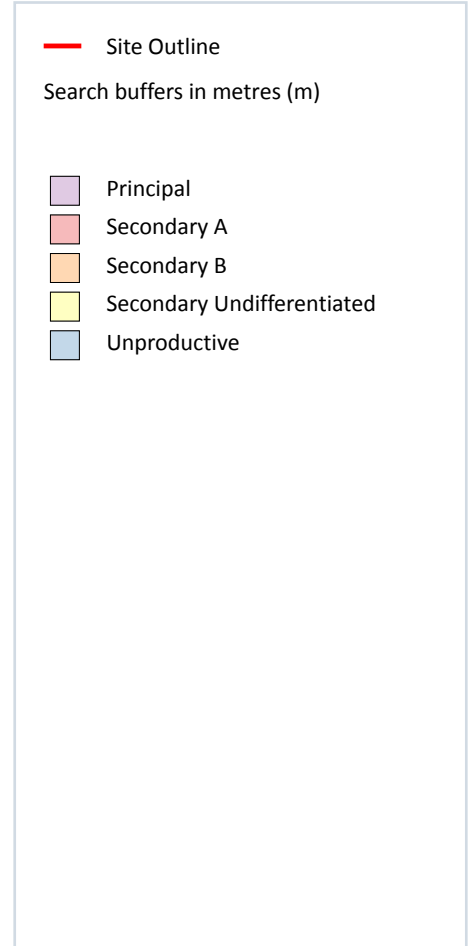
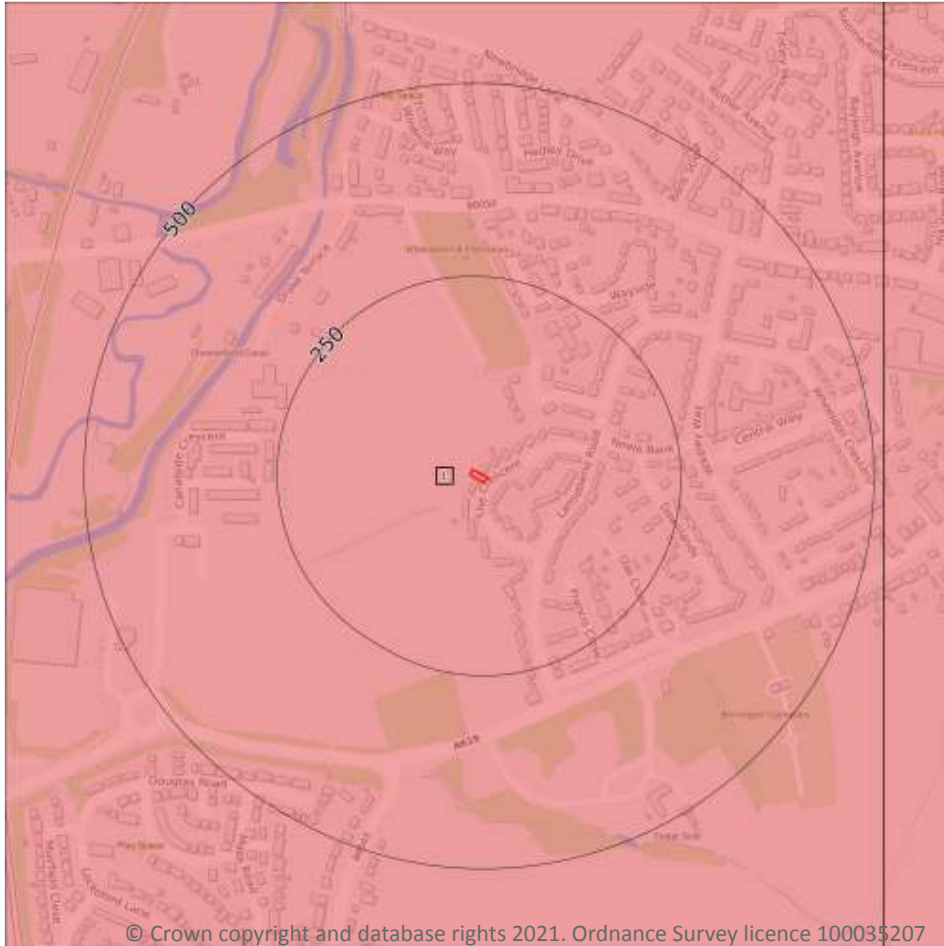
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 39**

ID	Location	Designation	Description
1	319m SW	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.

Bedrock aquifer



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5.2 Bedrock aquifer

Records within 500m

1

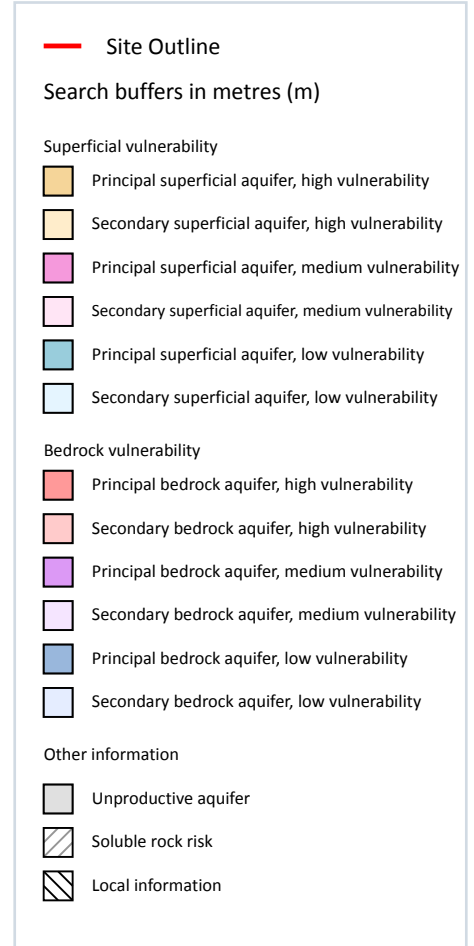
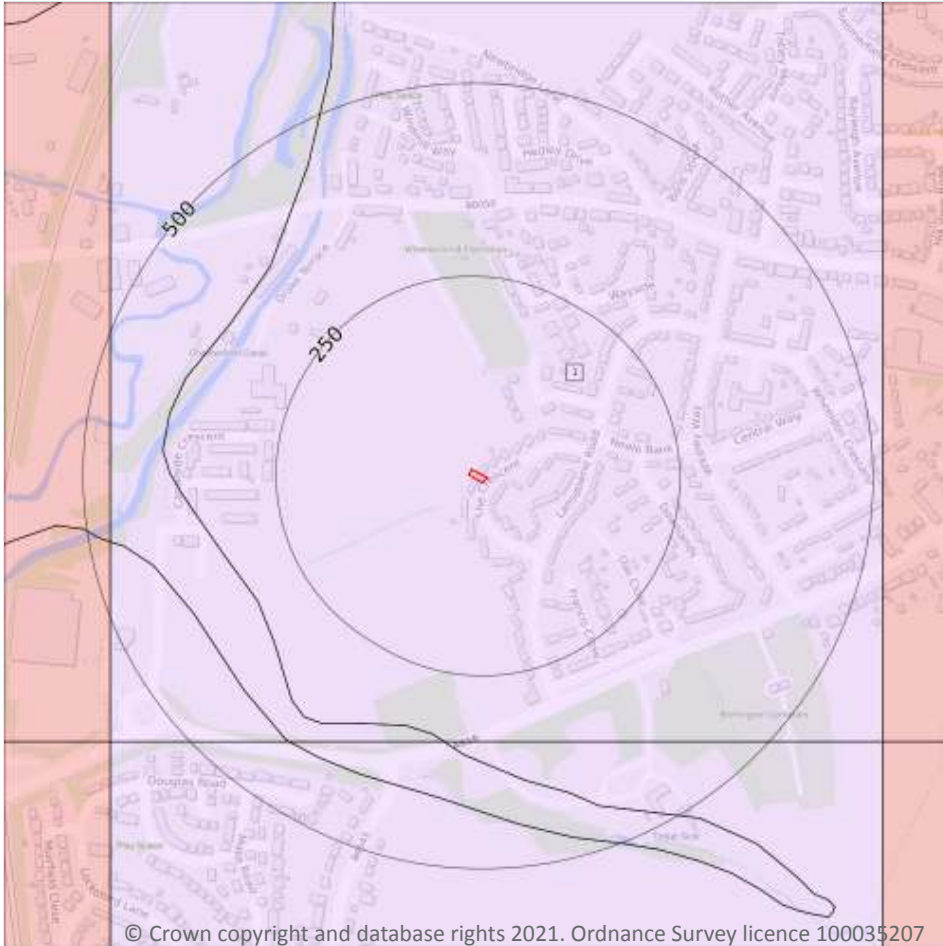
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 40**

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

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

Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

1

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 41**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium 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



5.6 Groundwater abstractions

Records within 2000m

0

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.

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

5.7 Surface water abstractions

Records within 2000m **2**

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 43**

ID	Location	Details	
-	1589m SW	Status: Historical Licence No: 2/27/02/055 Details: General Cooling (Existing Licences Only) (High Loss) Direct Source: SURFACE WATER Point: RIVER ROTHER Data Type: Point Name: KITCHIN ENGINEERING LTD Easting: 438800 Northing: 371900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 23/02/1995 Version End Date: -
-	1589m SW	Status: Historical Licence No: 2/27/02/055 Details: General Cooling (Existing Licences Only) (High Loss) Direct Source: SURFACE WATER Point: RIVER ROTHER Data Type: Point Name: KITCHIN ENGINEERING LTD Easting: 438800 Northing: 371900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 23/02/1995 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

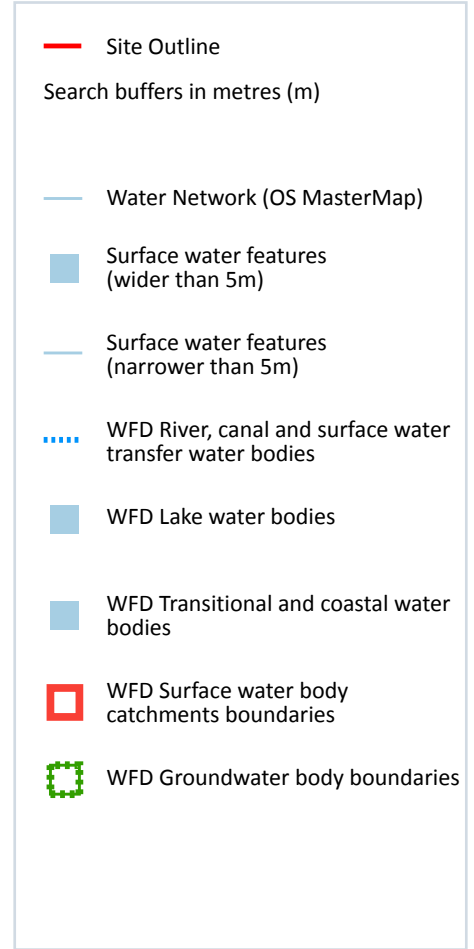
0

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



6.1 Water Network (OS MasterMap)

Records within 250m

5

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 46**

ID	Location	Type of water feature	Ground level	Permanence	Name
B	61m SW	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
B	151m SW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
B	156m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	239m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
B	246m 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	3
----------------------------	----------

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 46**

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 46**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River WB catchment	Rother, Spittal Brook to Doe Lea	GB104027057771	Rother and Doe Lea	Don and Rother

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 46**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
8	417m NW	River	Rother, Spittal Brook to Doe Lea	GB104027057771	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 46**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Don & Rother Millstone grit & Coal Measures	GB40402G992300	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

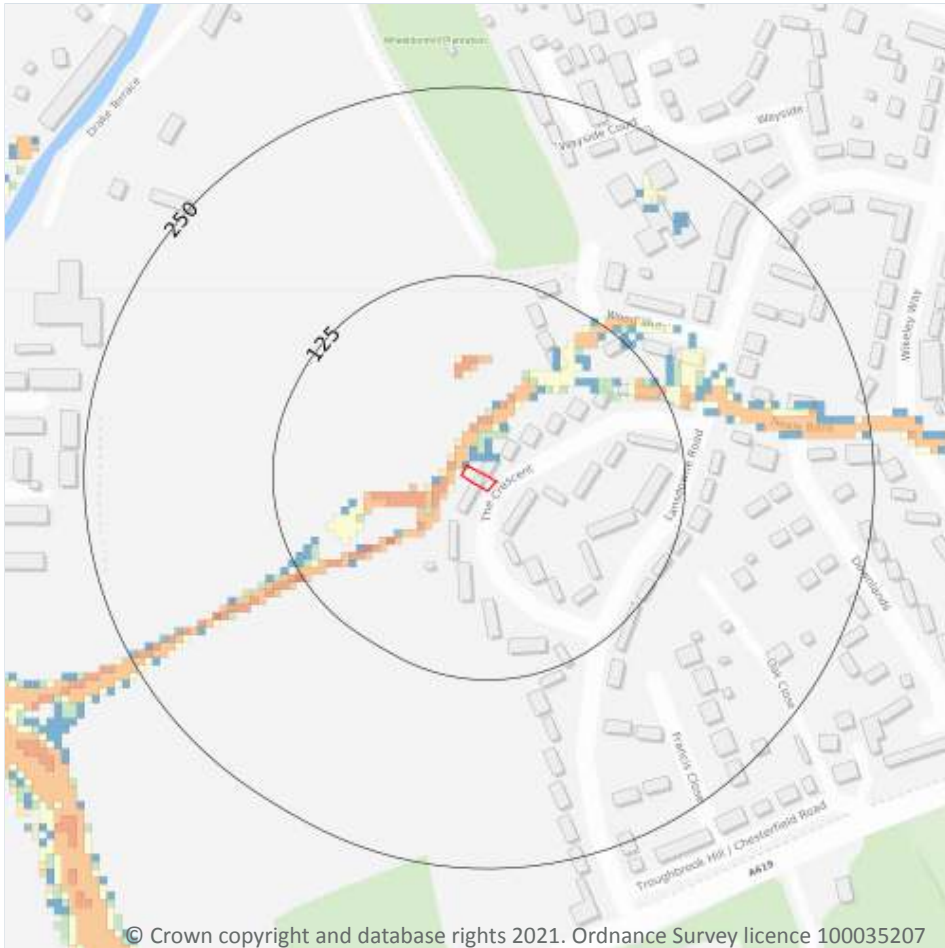
0

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



8.1 Surface water flooding

Highest risk on site

1 in 100 year, 0.1m - 0.3m

Highest risk within 50m

1 in 30 year, 0.3m - 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 52**

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.

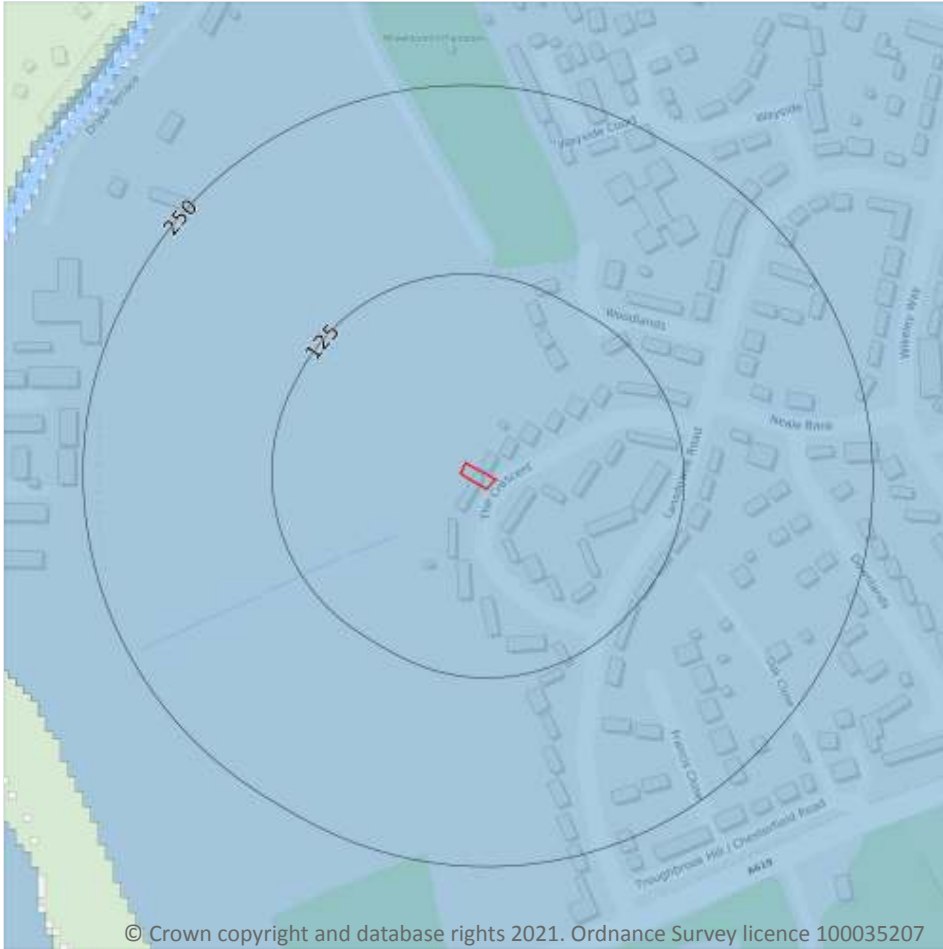
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.1m and 0.3m
1 in 250 year	Between 0.1m and 0.3m
1 in 100 year	Between 0.1m and 0.3m
1 in 30 year	Between 0.05m and 0.1m

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Negligible

Highest risk within 50m

Negligible

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

Features are displayed on the Groundwater flooding map on **page 54**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



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

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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



10.6 Local Nature Reserves (LNR)

Records within 2000m

2

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

Features are displayed on the Environmental designations map on **page 55**

ID	Location	Name	Data source
1	716m N	Bluebank Pools	Natural England
-	1327m N	Brearley Wetland	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m

0

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.

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

2

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

Features are displayed on the Environmental designations map on **page 55**

ID	Location	Name	Local Authority name
-	1802m NE	South and West Yorkshire	Chesterfield
-	1912m NW	South and West Yorkshire	Chesterfield

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

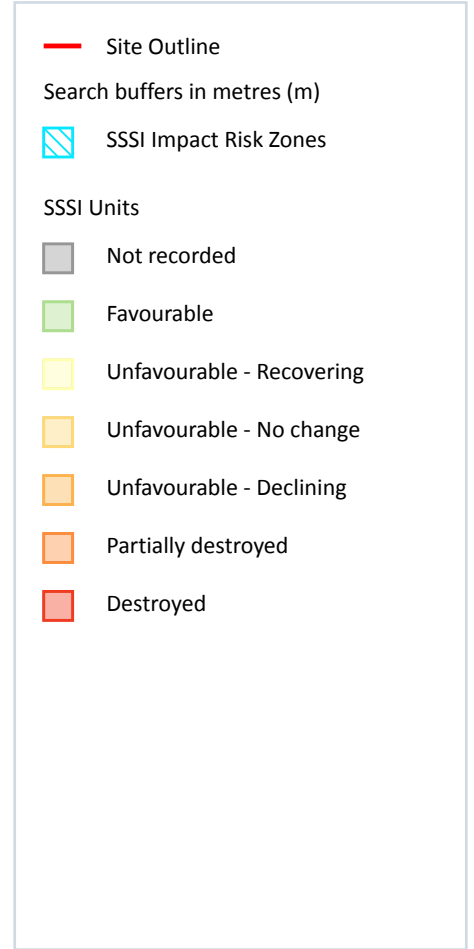
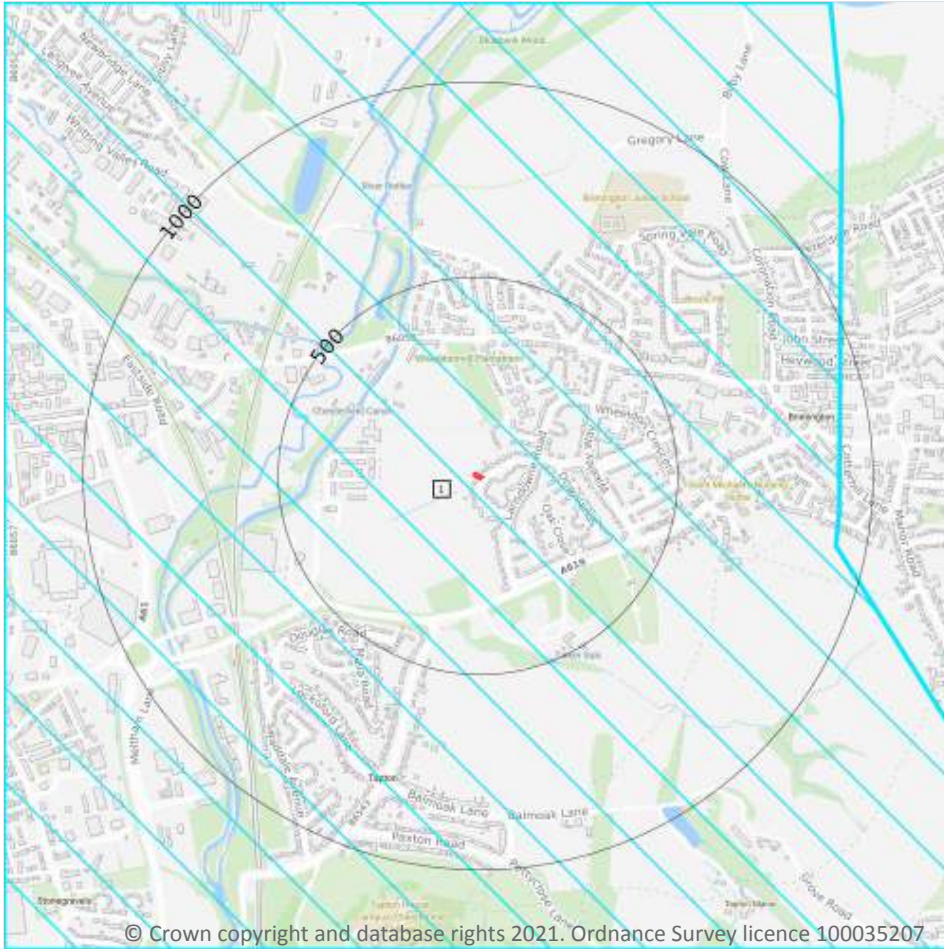
1

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

Location	Name	Type	NVZ ID	Status
On site	River Rother (source to Don) NVZ	Surface Water	S267	Changed

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

SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site

1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 60**

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 4000m².</p> <p>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</p>

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

0

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

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



11 Visual and cultural designations

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

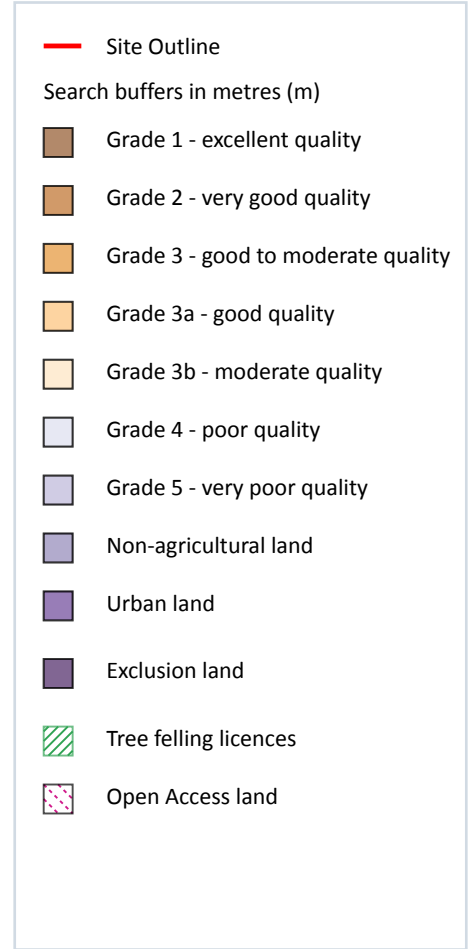
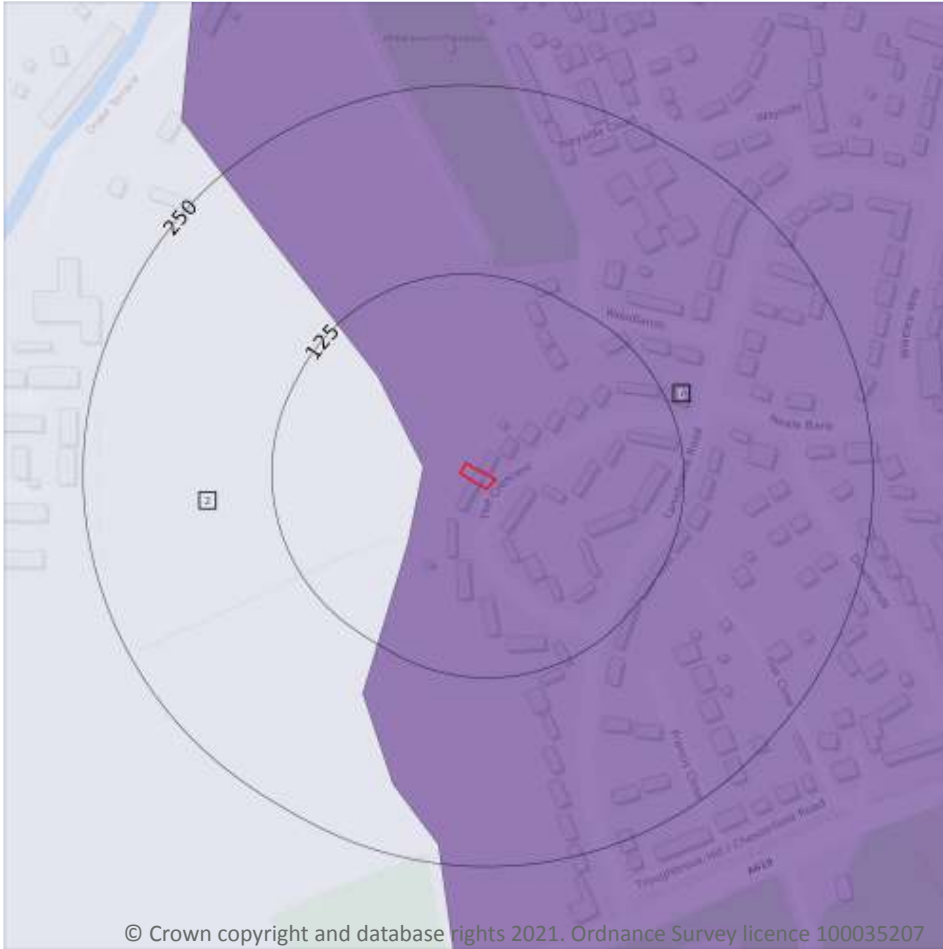
0

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



12.1 Agricultural Land Classification

Records within 250m

2

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 64**

ID	Location	Classification	Description
1	On site	Urban	-

ID	Location	Classification	Description
2	25m W	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.

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	0
----------------------------	----------

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

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

12.3 Tree Felling Licences

Records within 250m	0
----------------------------	----------

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	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

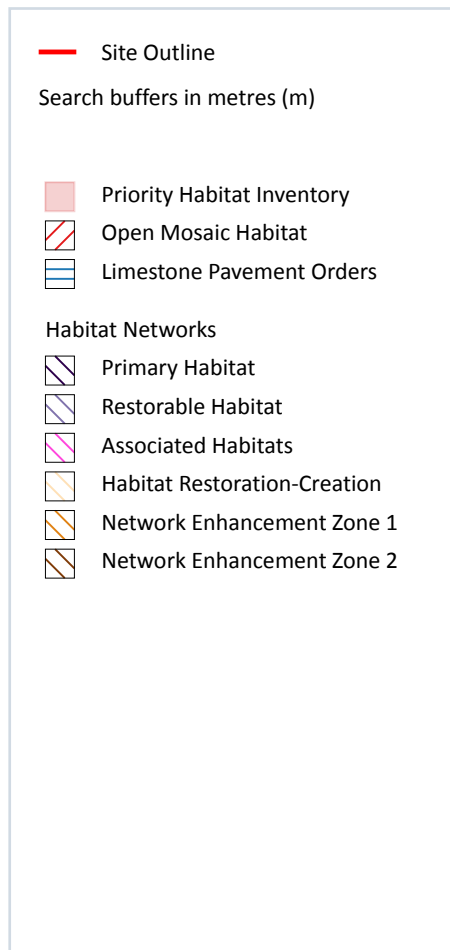
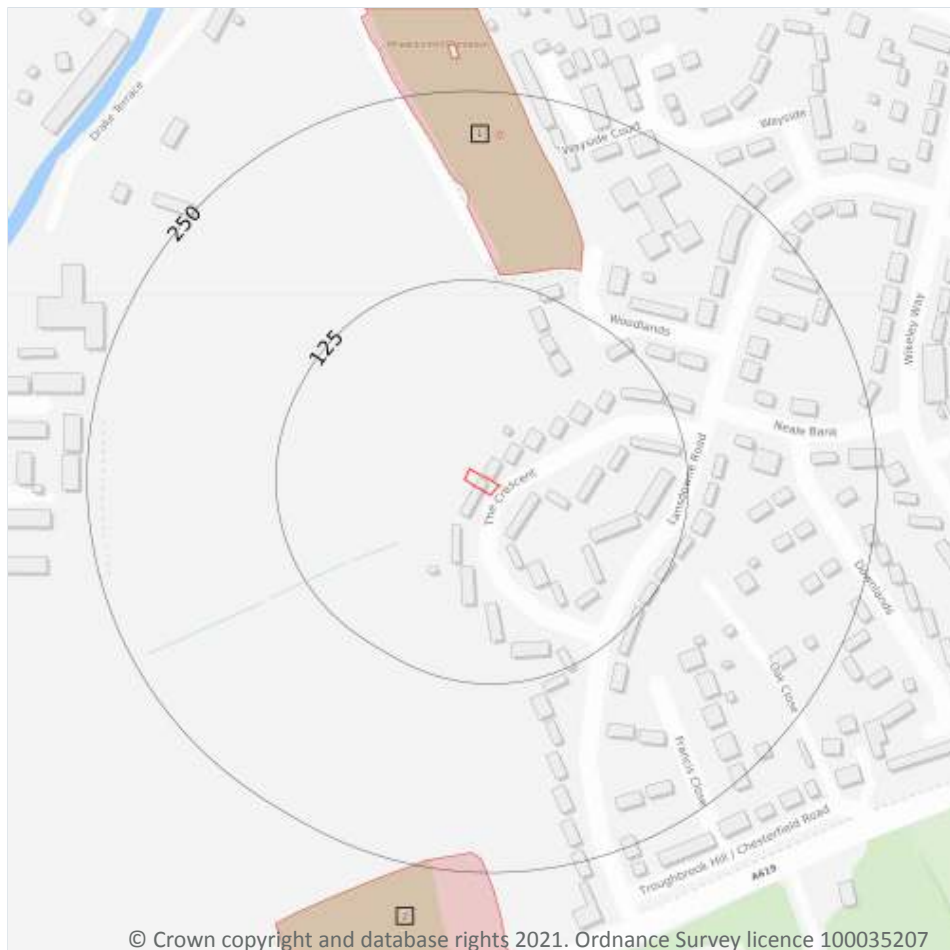
Records within 250m	0
----------------------------	----------

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



13.1 Priority Habitat Inventory

Records within 250m

2

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 66**

ID	Location	Main Habitat	Other habitats
1	130m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	237m S	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

0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

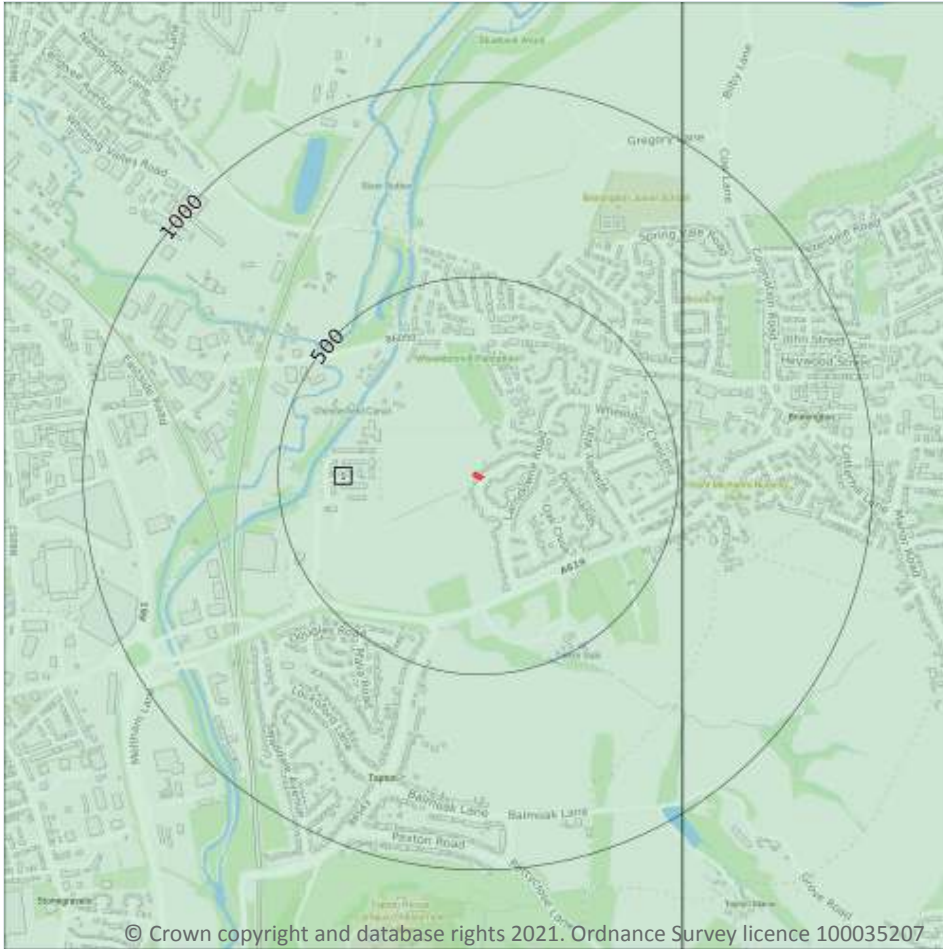
0

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

1

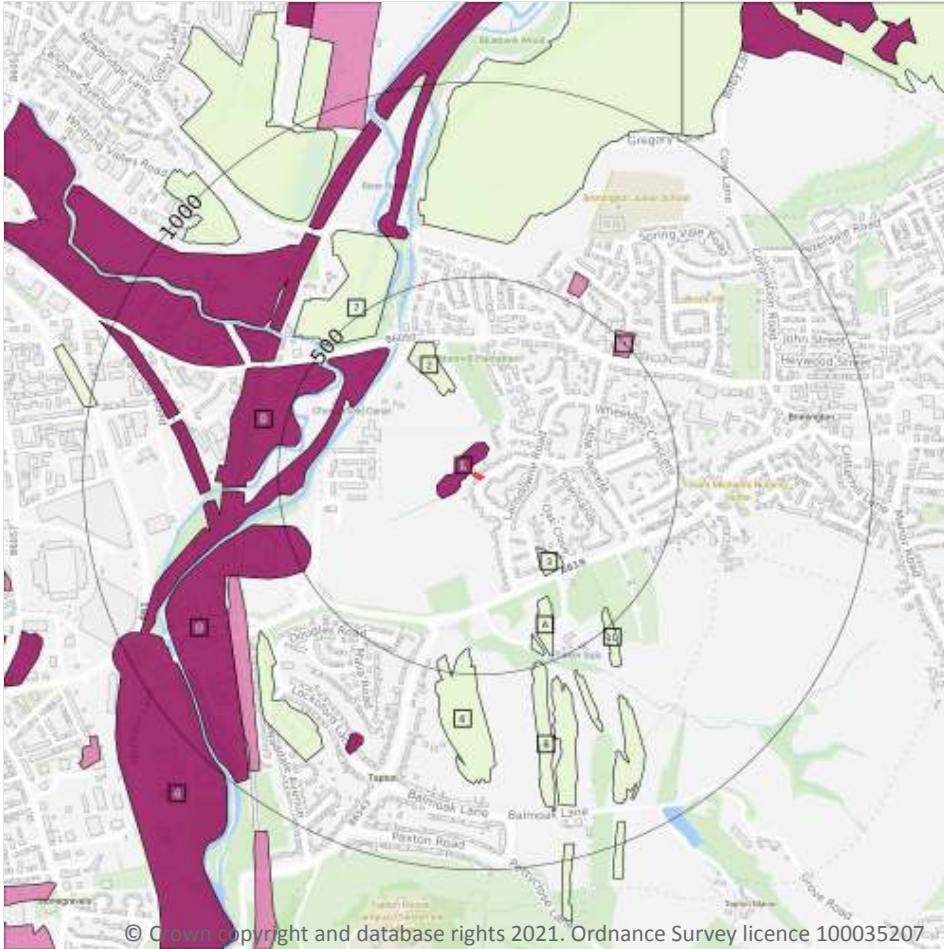
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 68**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SK37SE

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

13

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 69**

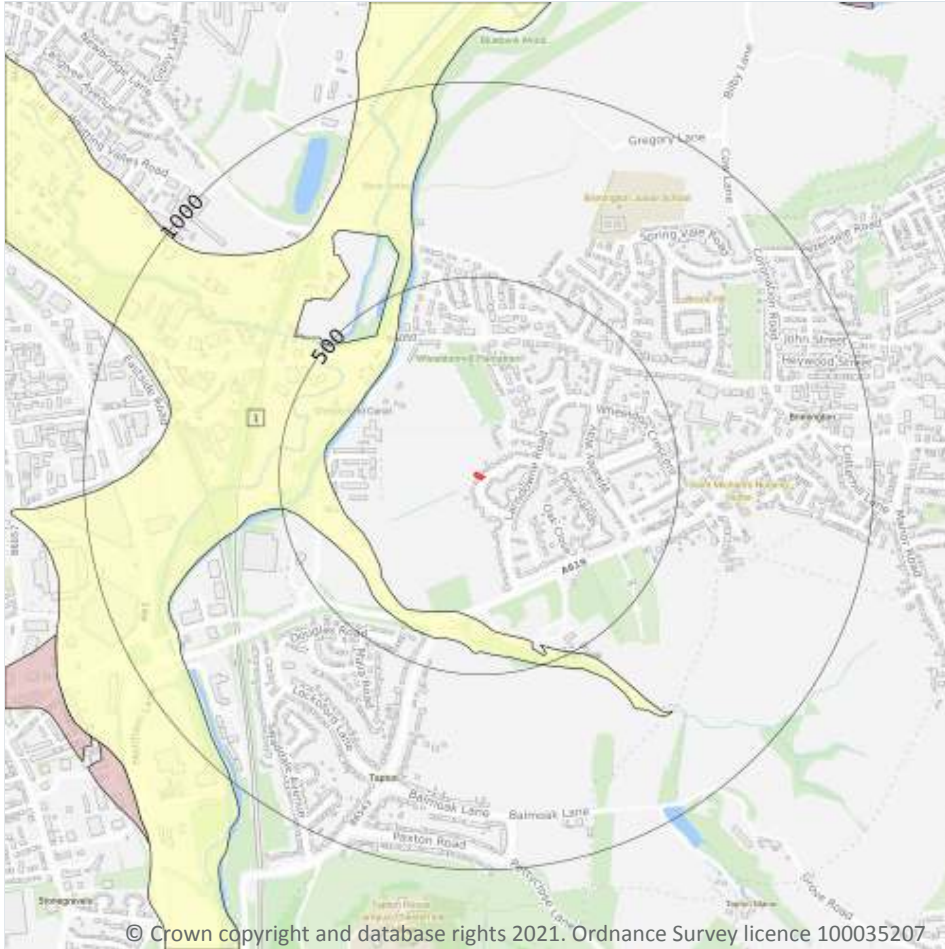
ID	Location	LEX Code	Description	Rock description
1	13m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	212m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
3	225m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	344m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
4	347m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	418m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
5	430m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	433m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
7	434m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
8	455m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
9	457m NE	WGR-VOID	Worked Ground (Undivided)	Void
10	457m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
B	489m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (10k)
- Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

1

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.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 71**

ID	Location	LEX Code	Description	Rock description
1	320m SW	ALV-XVSZC	Alluvium - Gravel, Sand, Silt And Clay	Gravel, Sand, Silt And Clay

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

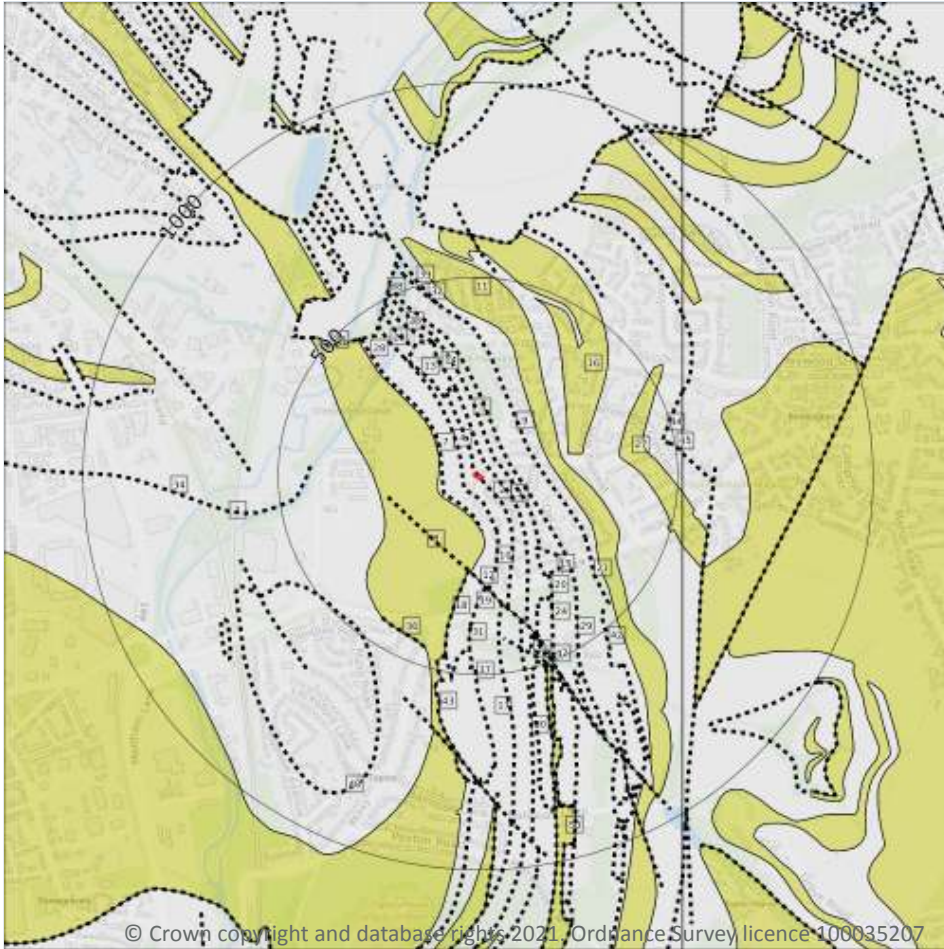
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



- 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

7

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 73**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
8	89m W	DHR-SDST	Deep Hard Rock - Sandstone	Langsettian Sub-age
11	170m NE	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
16	227m E	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
17	235m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
27	356m E	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
50	498m S	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

43

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 73**

ID	Location	Category	Description
2	On site	ROCK	Coal seam, inferred
3	27m NE	ROCK	Coal seam, inferred
4	28m W	ROCK	Coal seam, inferred
5	53m NE	ROCK	Coal seam, inferred
6	77m NE	ROCK	Coal seam, inferred
7	80m SW	ROCK	Coal seam, inferred
9	138m NE	ROCK	Coal seam, inferred
10	140m S	ROCK	Coal seam, inferred
12	191m SW	FAULT	Normal fault, inferred
13	212m N	ROCK	Coal seam, observed coincident with Artificial geology boundary
14	224m N	ROCK	Coal seam, observed coincident with Artificial geology boundary
15	225m SE	ROCK	Coal seam, observed coincident with Artificial geology boundary
18	235m S	ROCK	Coal seam, inferred coincident with bedrock geology boundary
19	275m S	ROCK	Coal seam, inferred



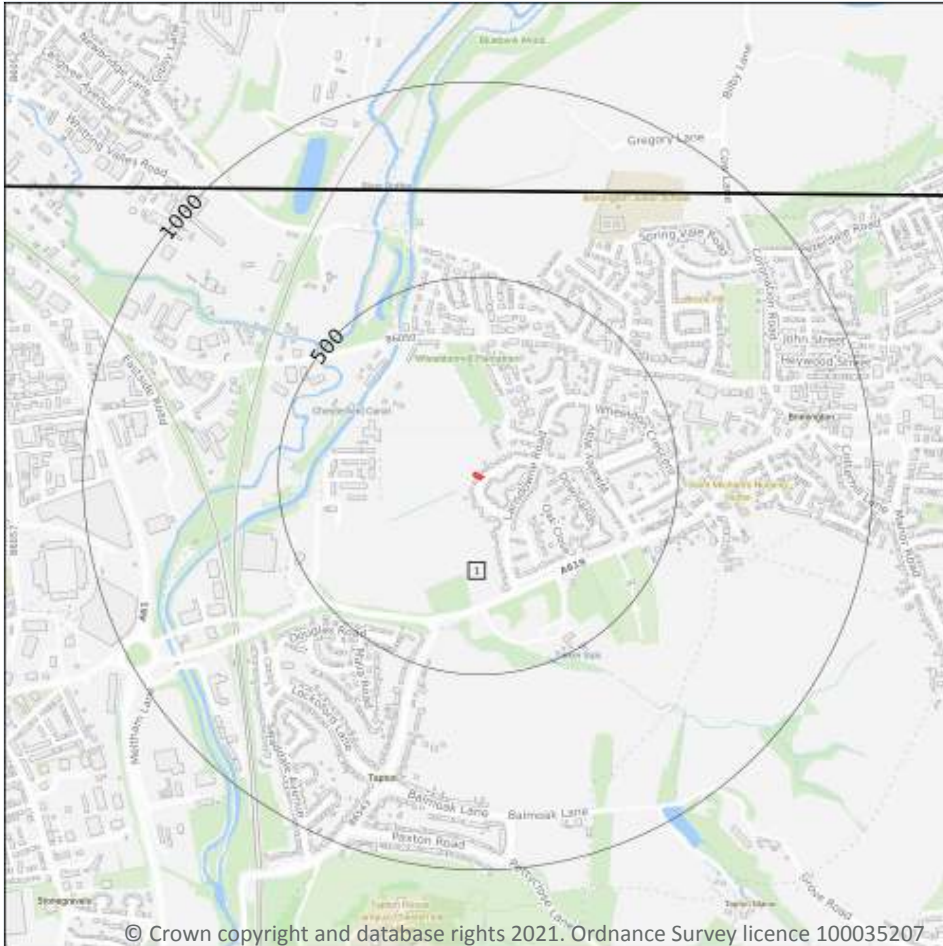
ID	Location	Category	Description
20	299m SE	ROCK	Coal seam, inferred
21	305m SE	ROCK	Coal seam, inferred
22	323m S	ROCK	Coal seam, inferred
23	343m NW	ROCK	Coal seam, inferred
24	344m SE	ROCK	Coal seam, observed coincident with Artificial geology boundary
25	350m N	ROCK	Coal seam, inferred
26	356m NW	ROCK	Coal seam, inferred
28	359m NW	ROCK	Coal seam, inferred
29	367m SE	ROCK	Coal seam, inferred
30	373m S	ROCK	Coal seam, inferred
31	380m S	ROCK	Coal seam, inferred
32	403m N	ROCK	Coal seam, inferred
33	411m S	FAULT	Normal fault, inferred
34	417m W	ROCK	Coal seam, inferred
35	418m S	ROCK	Coal seam, observed coincident with Artificial geology boundary
36	432m SW	ROCK	Coal seam, inferred coincident with bedrock geology boundary
37	433m S	ROCK	Coal seam, observed coincident with Artificial geology boundary
38	434m NW	ROCK	Coal seam, observed coincident with both Superficial geology boundary and Artificial geology boundar
39	443m N	ROCK	Coal seam, inferred
40	450m NW	ROCK	Coal seam, observed coincident with both Superficial geology boundary and Artificial geology boundar
41	454m NW	ROCK	Coal seam, observed coincident with bedrock geology boundary and Superficial geology boundary and Ar
42	457m SE	ROCK	Coal seam, observed coincident with Artificial geology boundary
43	458m S	ROCK	Coal seam, observed coincident with both bedrock geology boundary and Artificial geology boundary
44	471m E	ROCK	Coal seam, inferred
45	484m E	ROCK	Coal seam, inferred
46	489m S	ROCK	Coal seam, observed coincident with Artificial geology boundary



ID	Location	Category	Description
47	489m SE	ROCK	Coal seam, inferred
48	489m SW	ROCK	Coal seam, inferred
49	498m S	ROCK	Coal seam, inferred coincident with bedrock geology boundary

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.

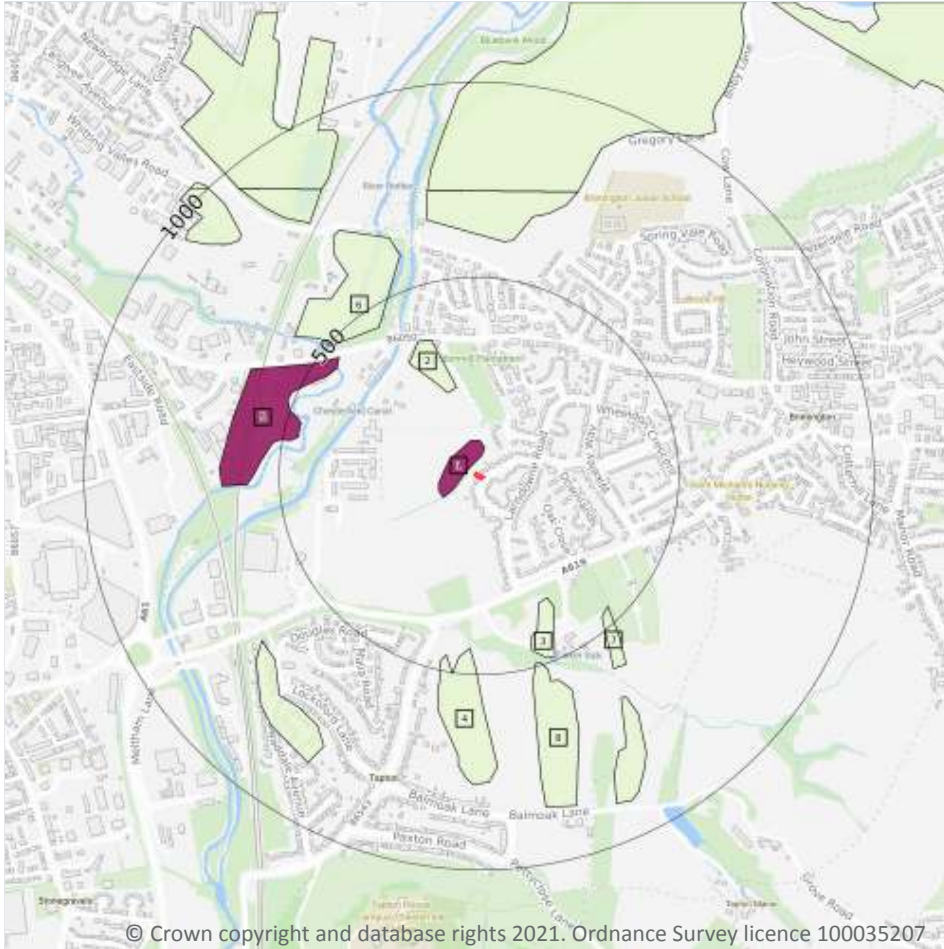
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 77](#)

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	Full	EW112_chesterfield_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

8

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 78**

ID	Location	LEX Code	Description	Rock description
1	20m NW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	217m N	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
3	346m SE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
4	433m S	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

ID	Location	LEX Code	Description	Rock description
5	445m NW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
6	448m NW	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
7	459m SE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
8	490m S	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

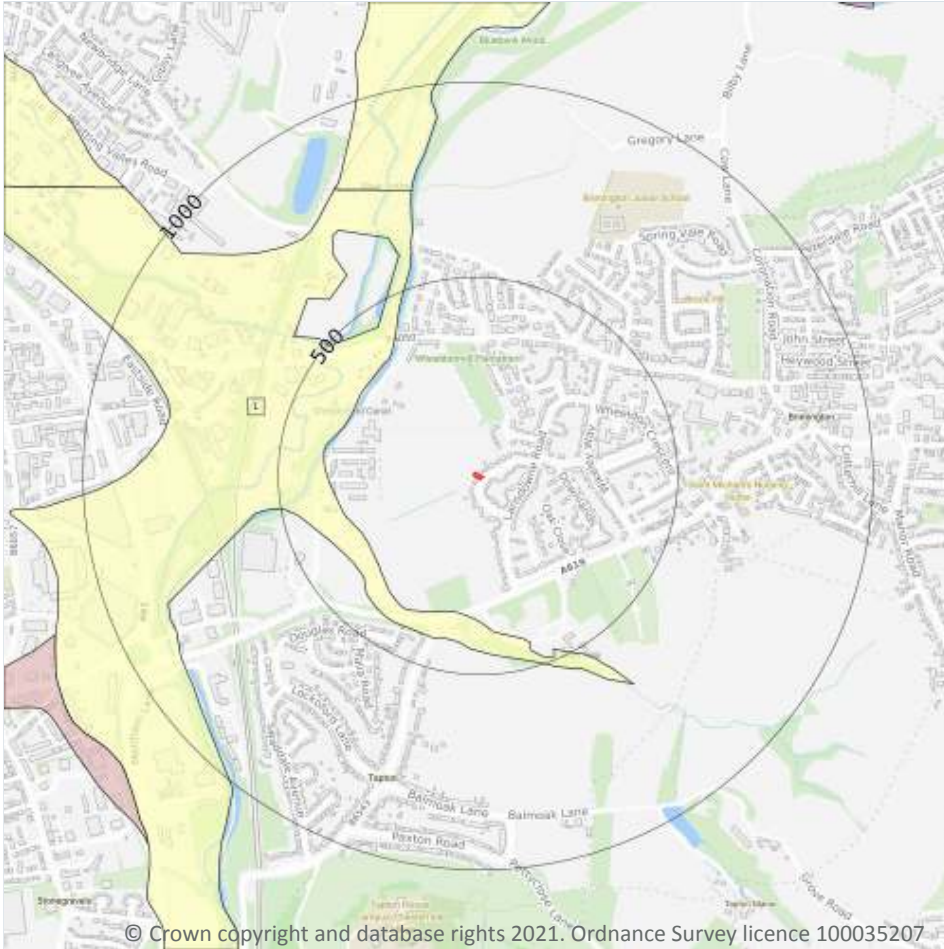
Records within 50m	1
---------------------------	----------

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
20m NW	Mixed	Very High	Low

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



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

15.4 Superficial geology (50k)

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 80**

ID	Location	LEX Code	Description	Rock description
1	320m SW	ALV-XVSZC	ALLUVIUM	GRAVEL, SAND, SILT AND CLAY

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

6

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 82**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
4	89m W	DHR-SDST	DEEP HARD ROCK - SANDSTONE	WESTPHALIAN
6	170m NE	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
8	227m E	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
9	245m W	PLCM-MDSI	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
11	355m E	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

1

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	High	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

13

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 82**

ID	Location	Category	Description
2	77m NE	ROCK	Coal seam, inferred
3	89m W	ROCK	Coal seam, inferred
5	138m NE	ROCK	Coal seam, inferred
7	217m N	ROCK	Coal seam, observed
10	346m SE	ROCK	Coal seam, observed
12	368m SE	ROCK	Coal seam, inferred
13	417m W	ROCK	Coal seam, inferred



ID	Location	Category	Description
14	443m N	ROCK	Coal seam, inferred
15	448m NW	ROCK	Coal seam, observed
16	459m SE	ROCK	Coal seam, observed
17	471m E	ROCK	Coal seam, inferred
18	489m SW	ROCK	Coal seam, inferred
19	490m S	ROCK	Coal seam, observed

This data is sourced from the British Geological Survey.



16 Boreholes

16.1 BGS Boreholes

Records within 250m

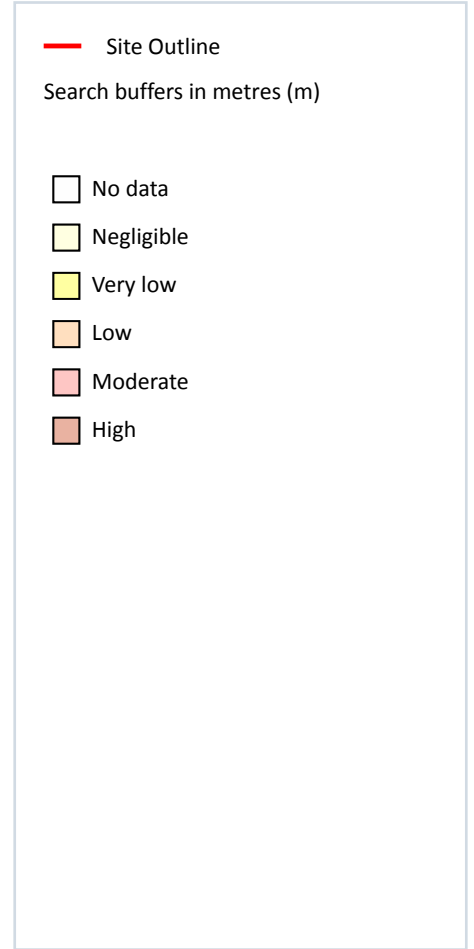
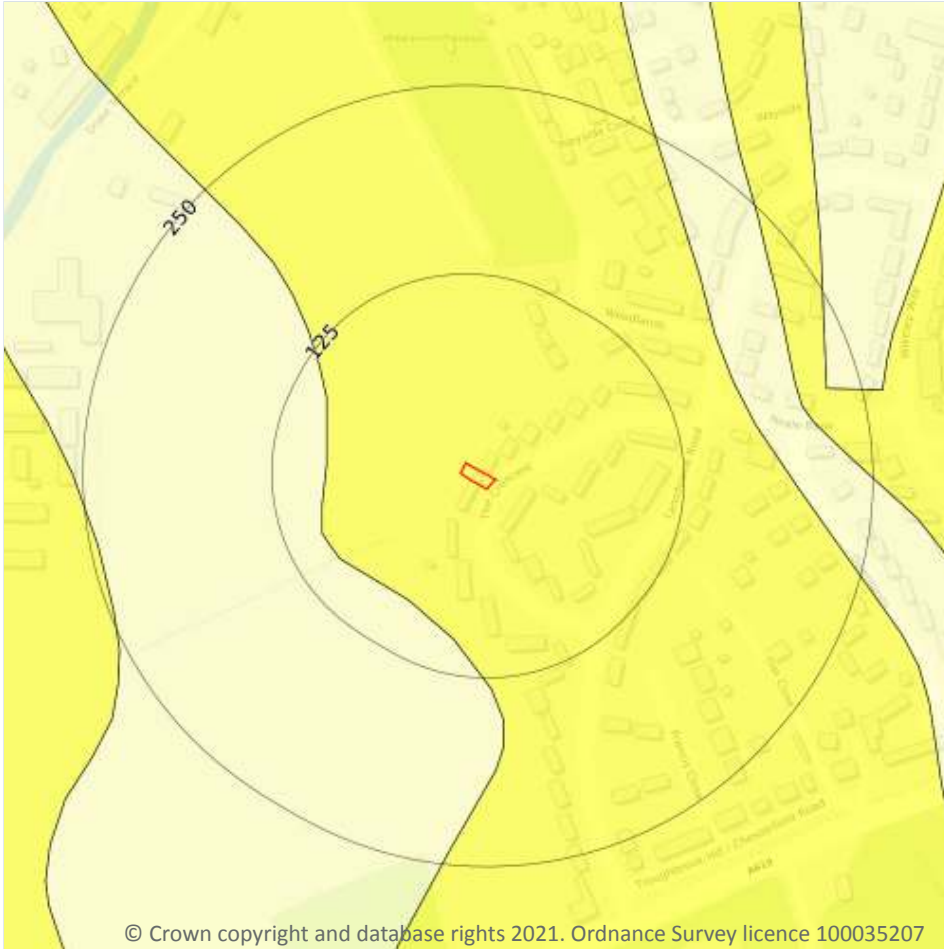
0

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.

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

1

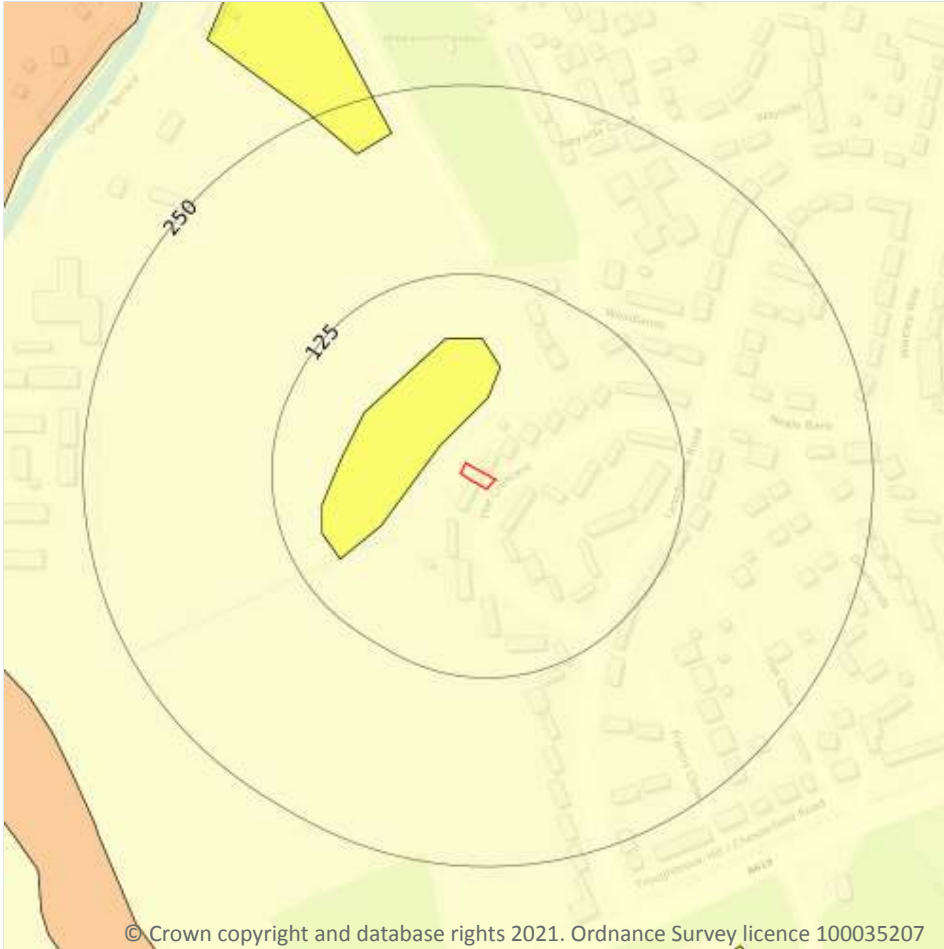
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 86**

Location	Hazard rating	Details
On site	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

2

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 87**

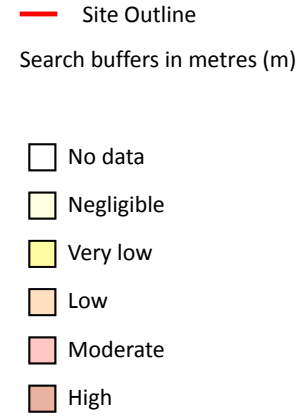
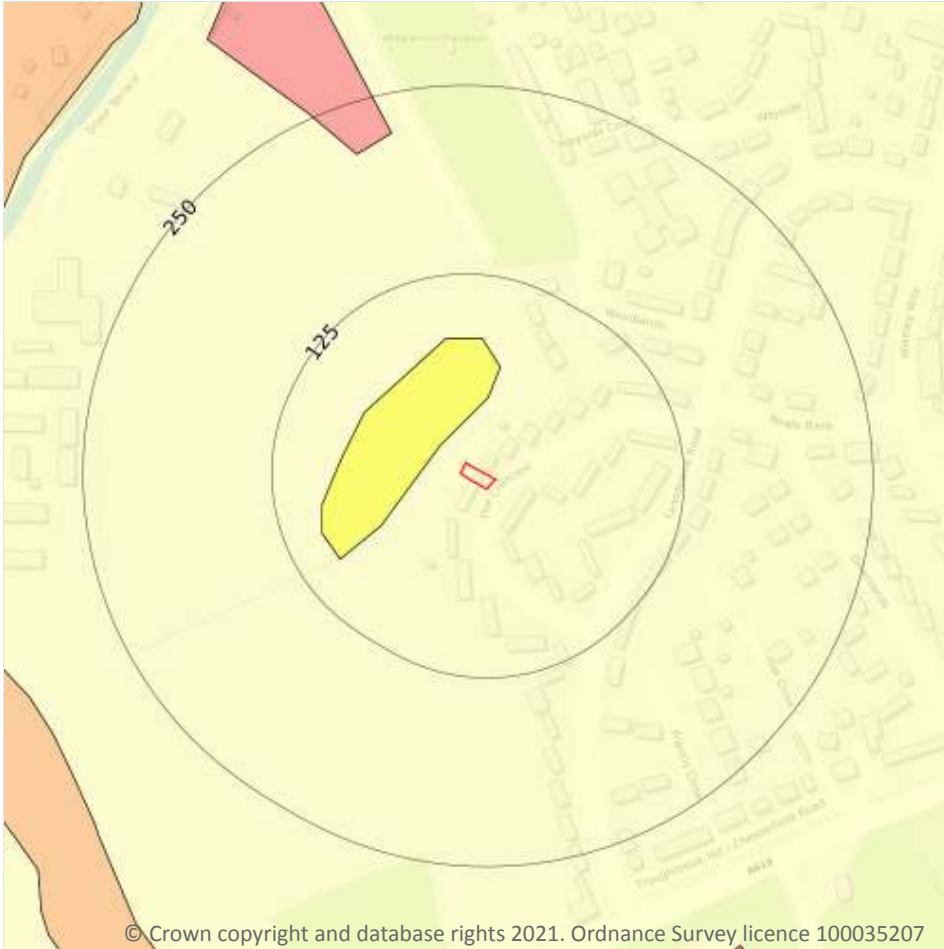
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Location	Hazard rating	Details
20m NW	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



17.3 Compressible deposits

Records within 50m

2

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.

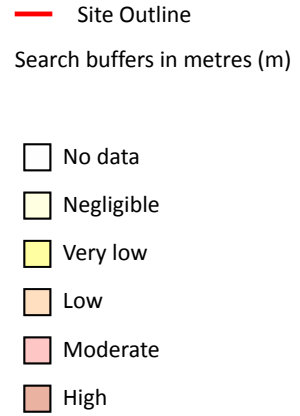
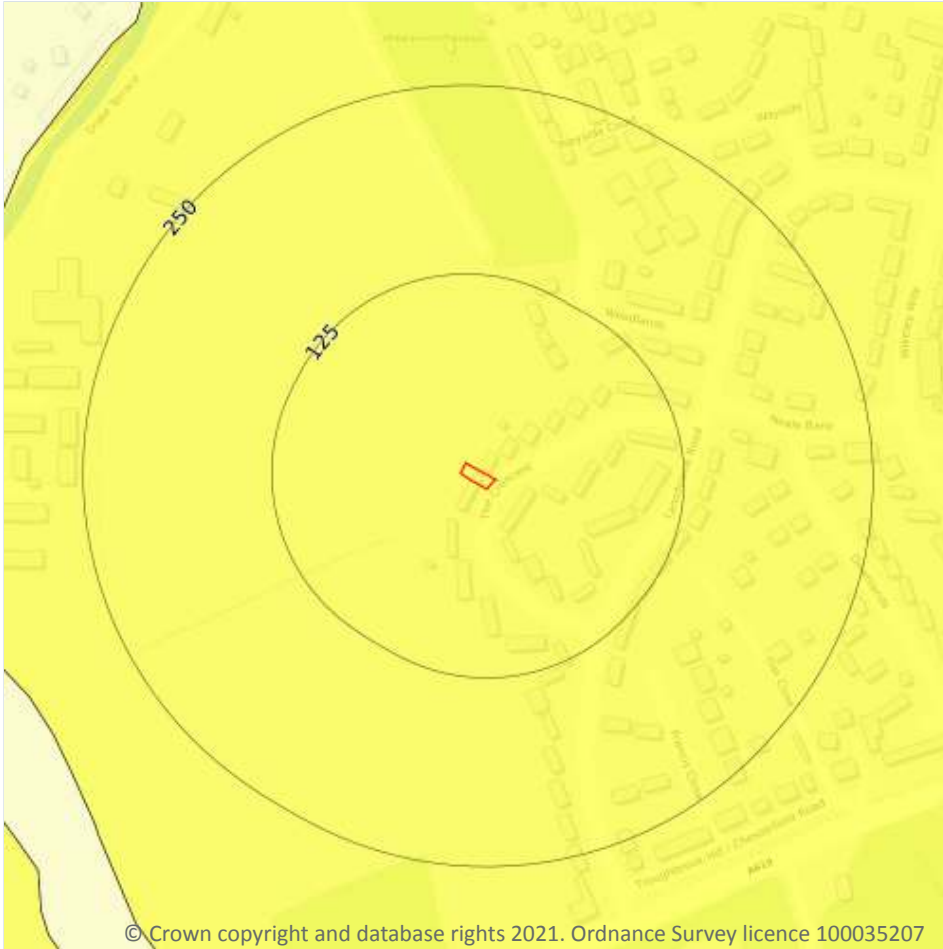
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 89**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
20m NW	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



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17.4 Collapsible deposits

Records within 50m

1

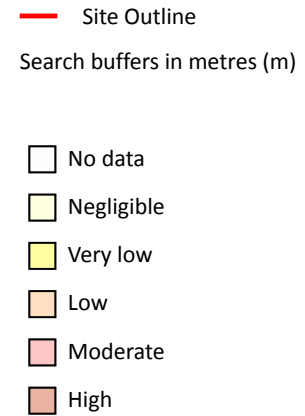
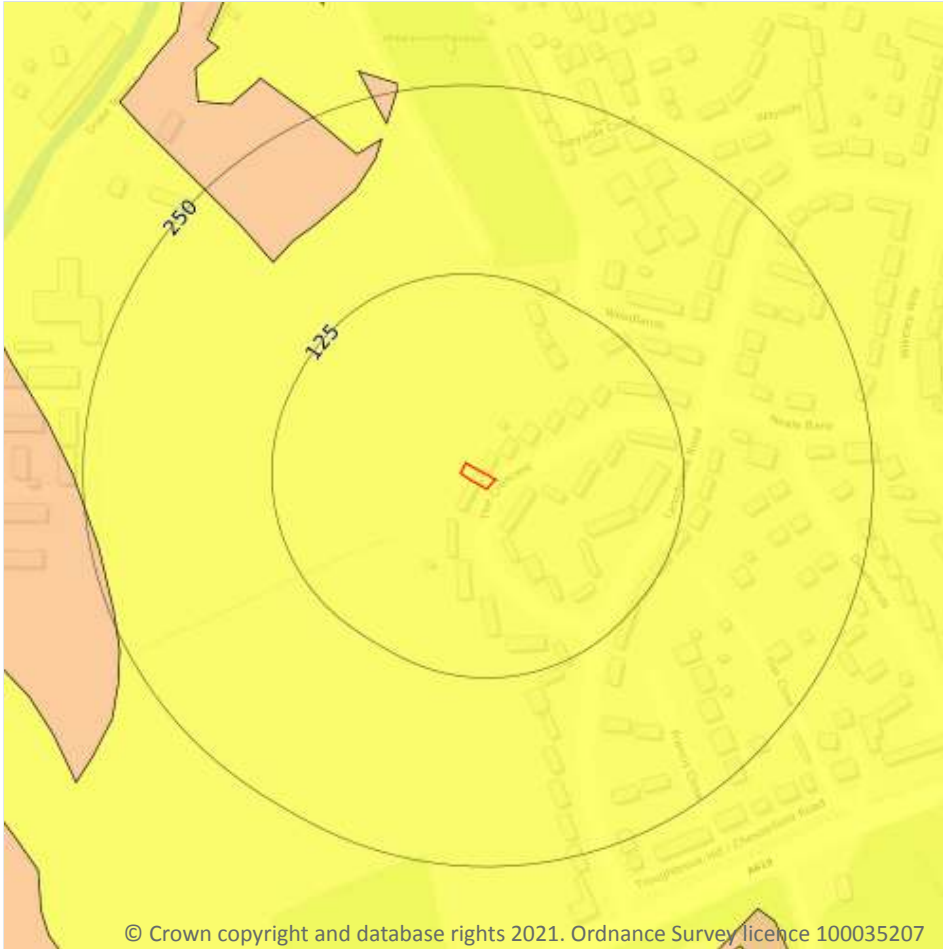
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 91**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m

1

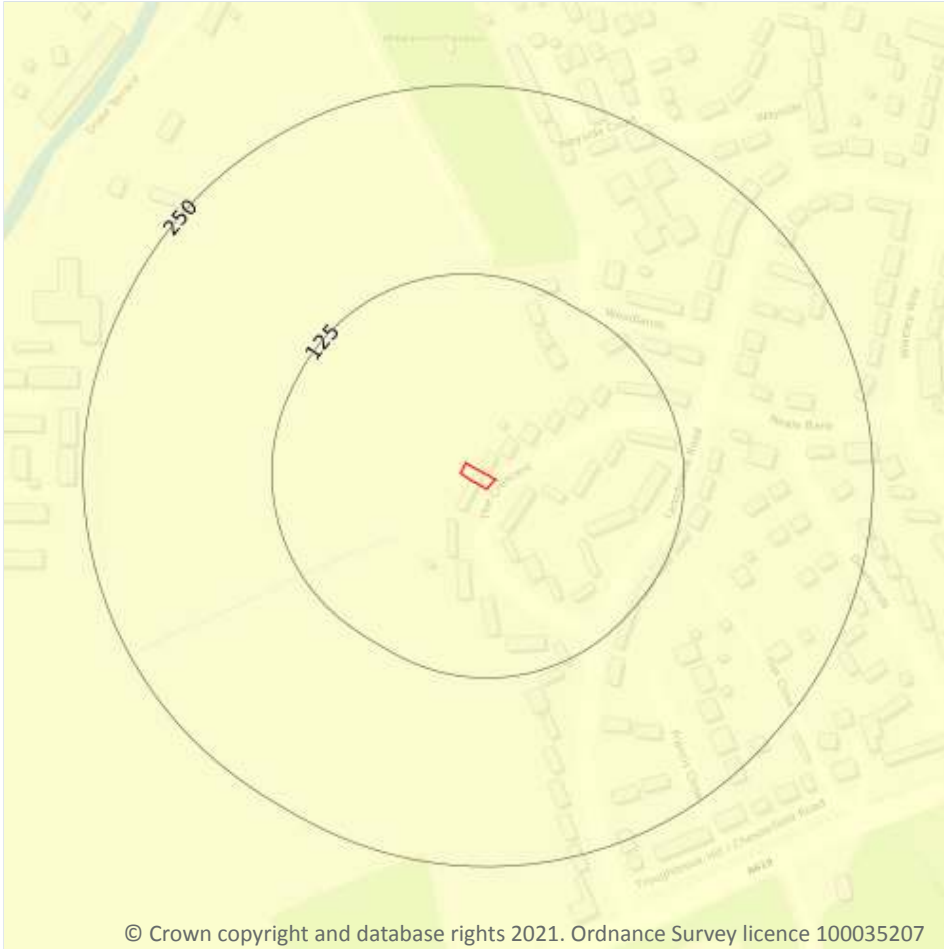
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 92**

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.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



— Site Outline
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m

1

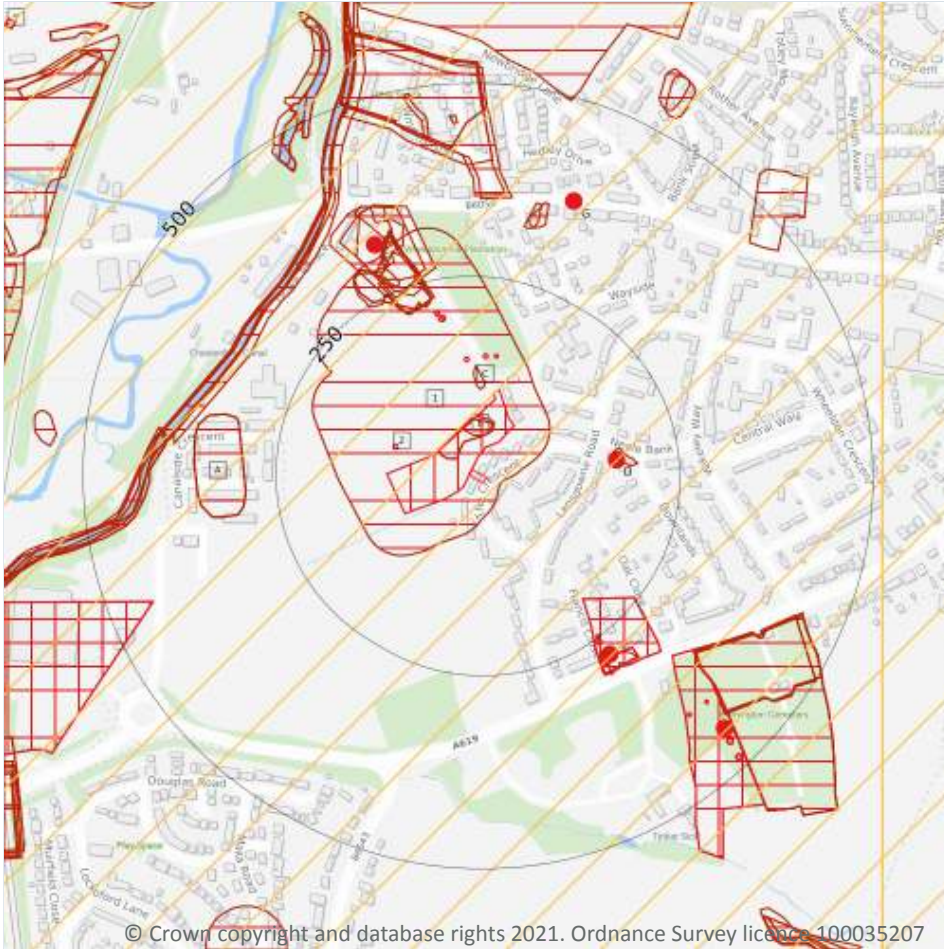
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 93**

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

This data is sourced from the British Geological Survey.

18 Mining, ground workings and natural cavities



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

18.1 Natural cavities

Records within 500m

0

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

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

18.2 BritPits

Records within 500m

5

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 94**

ID	Location	Details	Description
D	168m E	Name: Pitfield Plantation Quarry Address: Brimington, CHESTERFIELD, Derbyshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
F	276m SE	Name: Tinkersick Colliery Address: Brimington, CHESTERFIELD, Derbyshire Commodity: Coal, Deep Status: Ceased	Type: 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) 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
E	316m NW	Name: Wheeldon Brick Yard Address: Brimington, CHESTERFIELD, Derbyshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
G	371m N	Name: Station Road OCCS Address: Staveley, CHESTERFIELD, Derbyshire Commodity: Coal, Surface Mined Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority



ID	Location	Details	Description
I	446m SE	Name: Bagshaw Colliery Address: Brimington, CHESTERFIELD, Derbyshire Commodity: Coal, Deep Status: Ceased	Type: 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) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

15

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 94**

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Colliery	1897	1:10560
B	24m NW	Unspecified Disused Tip	1991	1:10000
B	24m NW	Unspecified Disused Tip	1976	1:10000
B	44m N	Refuse Heap	1968	1:10560
C	104m N	Unspecified Pit	1897	1:10560
D	168m E	Unspecified Old Quarry	1876	1:10560
F	199m SE	Colliery	1876	1:10560
E	216m N	Unspecified Pit	1897	1:10560
E	216m N	Brick Works	1897	1:10560
E	218m N	Unspecified Ground Workings	1914	1:10560
E	219m N	Unspecified Heap	1938	1:10560
E	219m N	Unspecified Heap	1921	1:10560
E	237m N	Unspecified Ground Workings	1954	1:10560
E	243m NW	Brick Yard	1876	1:10560
E	250m N	Unspecified Heap	1947	1:10560



This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

48

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 94**

ID	Location	Land Use	Year of mapping	Mapping scale
B	On site	Unspecified Mine	1968	1:10560
2	99m W	Air Shaft	1897	1:10560
C	140m N	Unspecified Old Shafts	1897	1:10560
C	145m N	Unspecified Old Shafts	1897	1:10560
C	148m N	Unspecified Old Shaft	1876	1:10560
E	195m N	Old Air Shaft	1897	1:10560
E	197m N	Unspecified Old Shaft	1949	1:10560
F	199m SE	Colliery	1876	1:10560
E	204m N	Unspecified Old Shaft	1947	1:10560
E	204m N	Old Air Shaft	1938	1:10560
E	204m N	Old Air Shaft	1921	1:10560
F	247m SE	Unspecified Shaft	1876	1:10560
F	252m SE	Old Coal Shaft	1938	1:10560
F	252m SE	Old Coal Shaft	1921	1:10560
F	252m SE	Unspecified Old Shaft	1897	1:10560
F	276m SE	Old Coal Pit	1938	1:10560
F	276m SE	Old Coal Pit	1897	1:10560
F	278m SE	Air Shaft	1876	1:10560
F	280m SE	Old Air Shaft	1938	1:10560
F	280m SE	Air Shaft	1897	1:10560
F	280m SE	Old Air Shaft	1921	1:10560
I	333m SE	Disused Colliery	1876	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
I	400m SE	Unspecified Old Shaft	1876	1:10560
I	404m SE	Unspecified Old Shafts	1876	1:10560
O	441m W	Colliery	1876	1:10560
I	457m SE	Unspecified Old Shafts	1876	1:10560
I	459m SE	Old Coal Shafts	1938	1:10560
I	459m SE	Old Coal Shaft	1921	1:10560
I	459m SE	Unspecified Old Shafts	1897	1:10560
I	482m SE	Old Coal Shafts	1938	1:10560
I	482m SE	Old Coal Shafts	1921	1:10560
I	482m SE	Unspecified Old Shafts	1897	1:10560
-	709m W	Unspecified Shafts	1898	1:10560
-	721m SW	Unspecified Shafts	1898	1:10560
-	722m SW	Coal Pit	1876	1:10560
-	726m W	Old Coal Shafts	1921	1:10560
-	727m W	Unspecified Shaft	1876	1:10560
-	728m W	Old Coal Shafts	1938	1:10560
-	732m SW	Old Coal Shafts	1921	1:10560
-	732m SW	Old Coal Shafts	1921	1:10560
-	734m SW	Old Coal Shafts	1938	1:10560
-	734m SW	Old Coal Shafts	1938	1:10560
-	737m W	Unspecified Shaft	1876	1:10560
-	744m SW	Unspecified Shaft	1876	1:10560
Y	825m NW	Unspecified Disused Shaft	1968	1:10560
Y	825m NW	Unspecified Disused Shaft	1976	1:10000
-	838m NW	Unspecified Old Shaft	1897	1:10560
-	985m NW	Air Shaft	1876	1:10560

This is data is sourced from Ordnance Survey/Groundsure.



18.5 Historical Mineral Planning Areas

Records within 500m	0
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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.

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 94**

ID	Location	Name	Commodity	Class	Likelihood
A	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
6	512m E	Not available	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m	0
-----------------------------	----------

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

This data is sourced from 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

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

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

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.



18.12 Tin mining

Records on site

0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

18.13 Clay mining

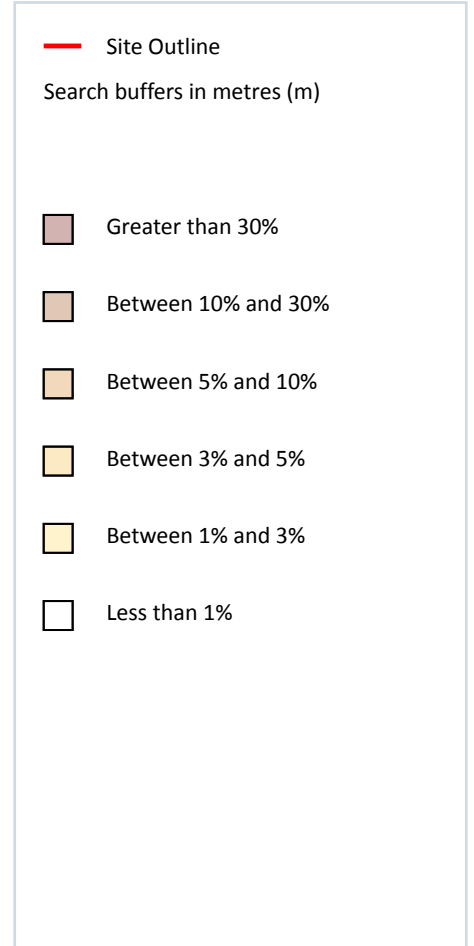
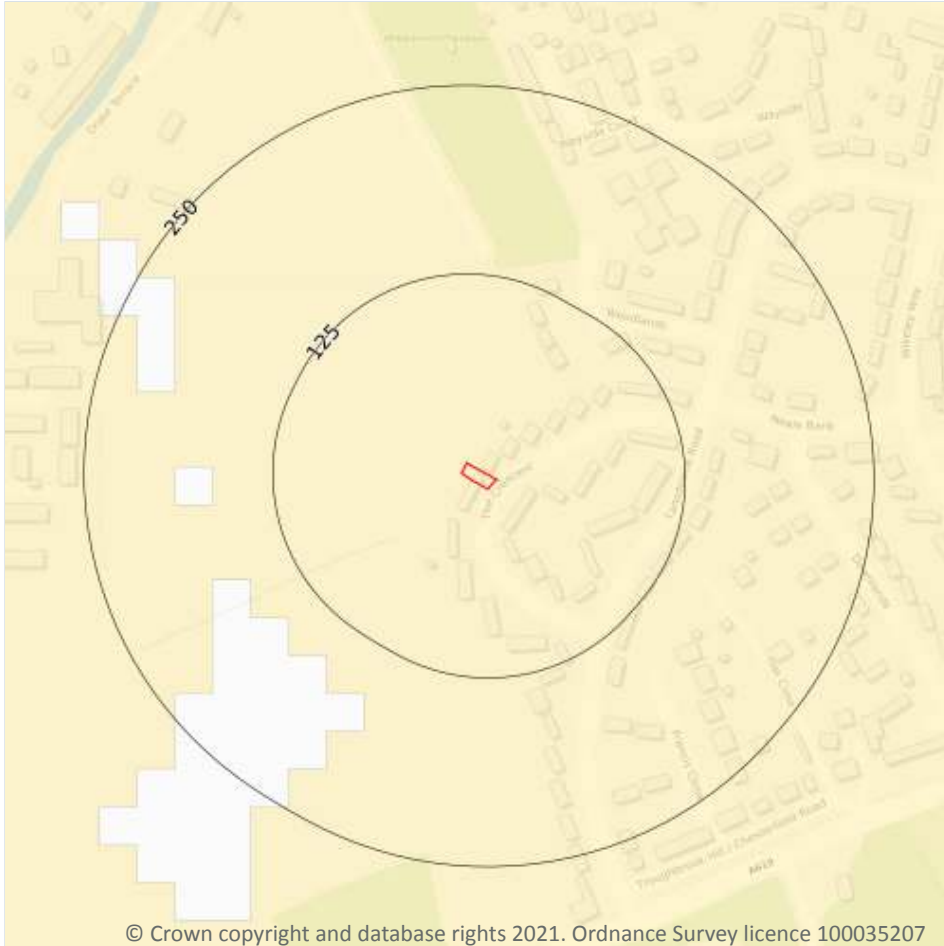
Records on site

0

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 102**

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 1% and 3%	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

2

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 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
12m SE	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

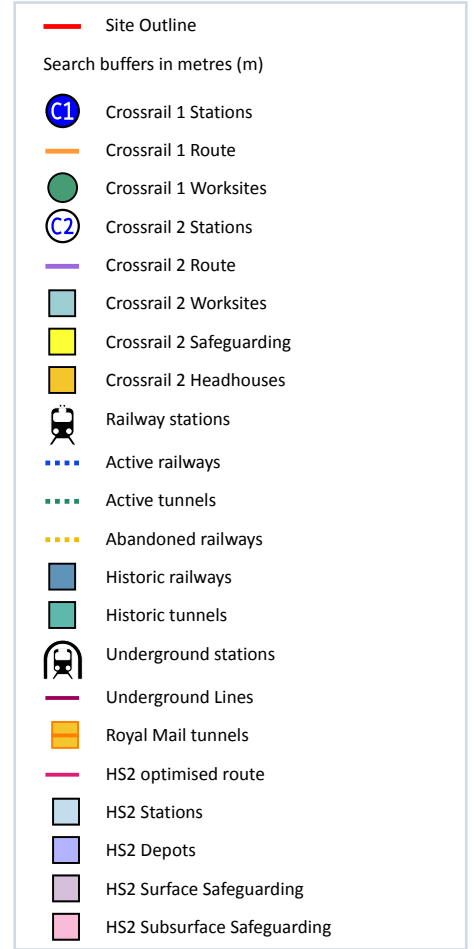
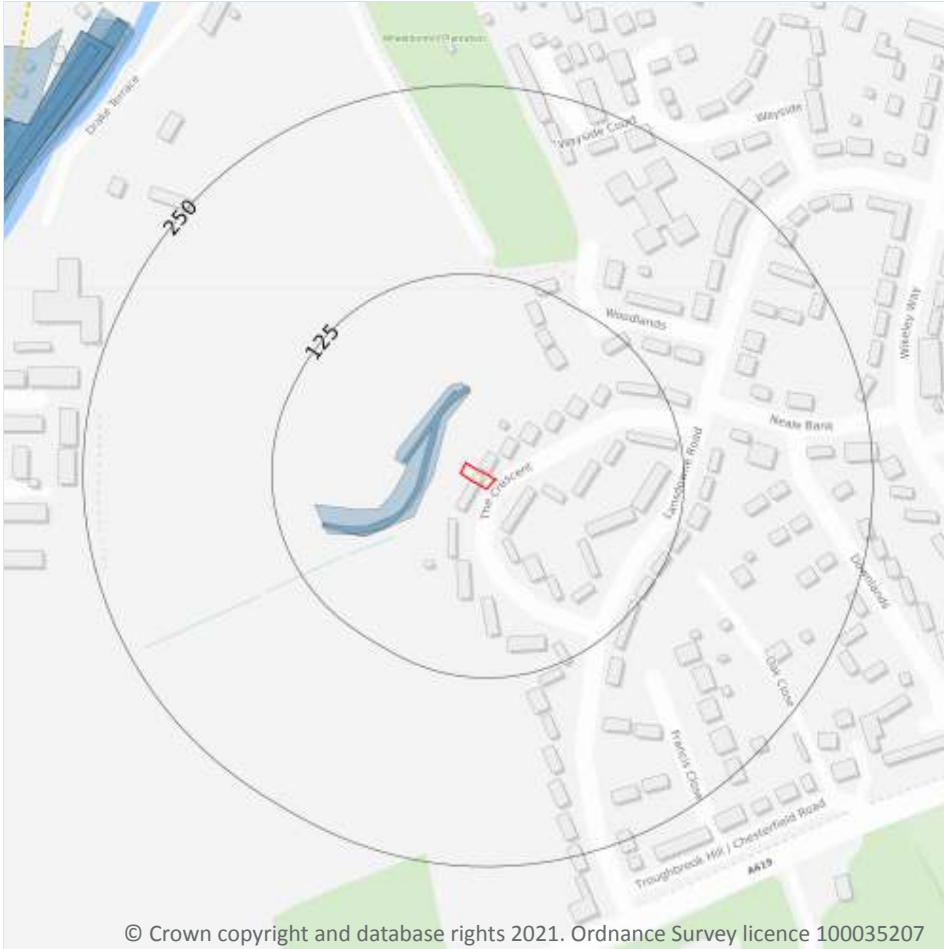
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The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



21.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

3

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 104**

Location	Land Use	Year of mapping	Mapping scale
17m W	Railway Sidings	1968	10560
22m W	Railway Sidings	1963	2500
23m W	Railway Sidings	1964	1250

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.



21.7 Railways

Records within 250m

0

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

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

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

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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SMALL SCALE SURVEY PLANS



Site Details:

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Client Ref: 4199
Report Ref: CMAPS-CM-950025-4199-270321HIS
Grid Ref: 439476, 373344

Map Name: County Series

Map date: 1876

Scale: 1:10,560

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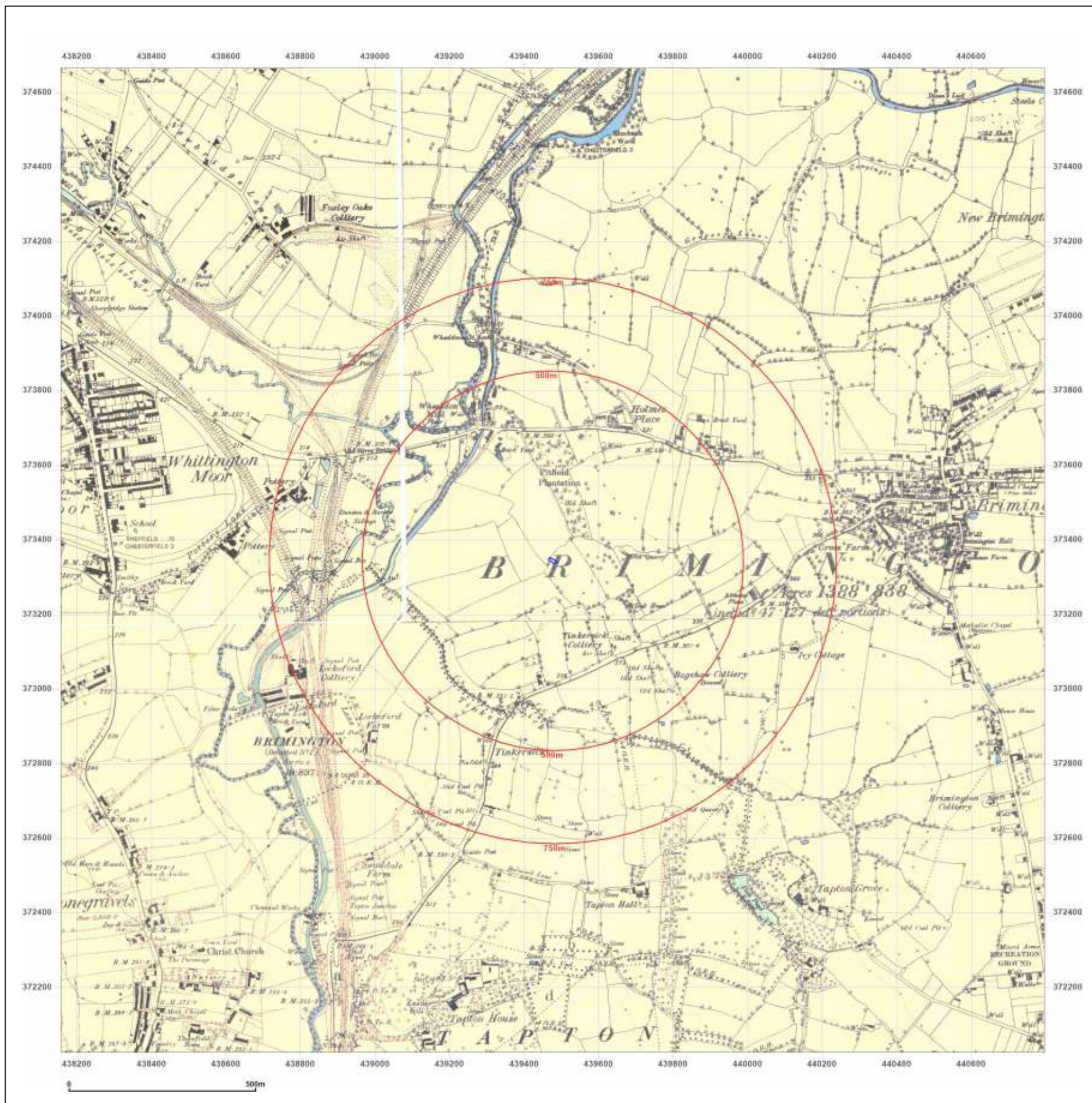


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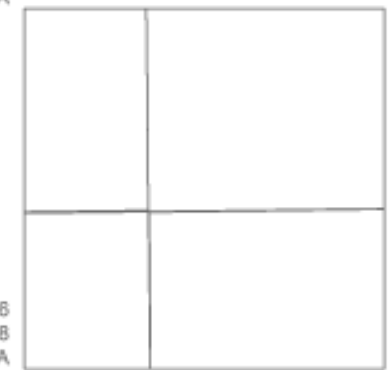
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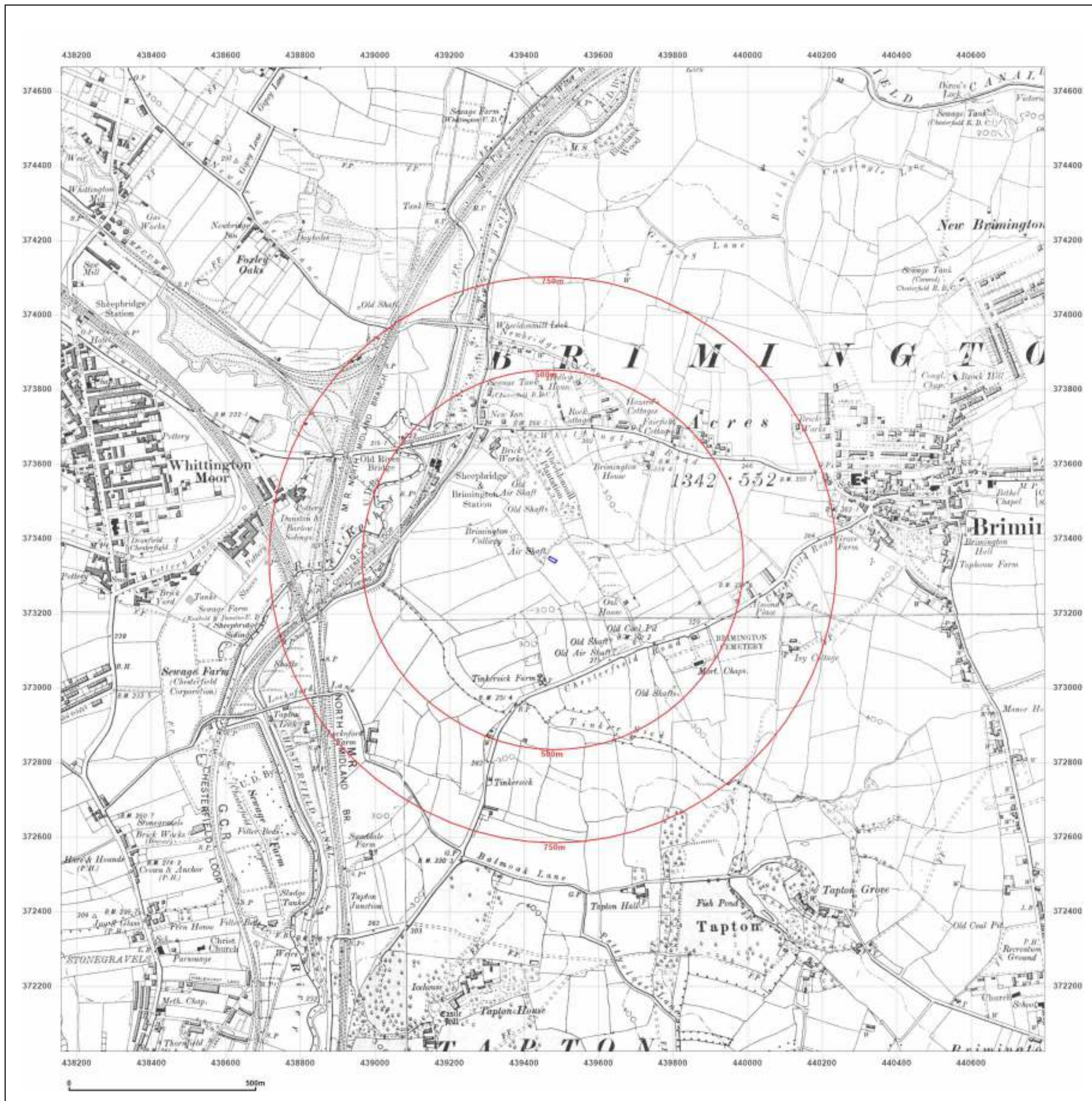


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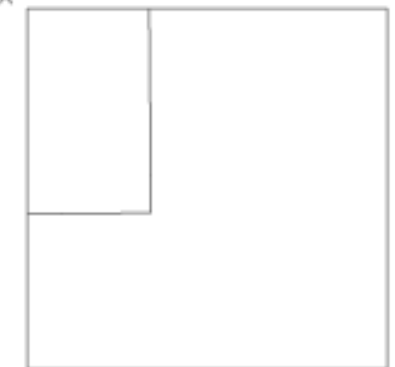
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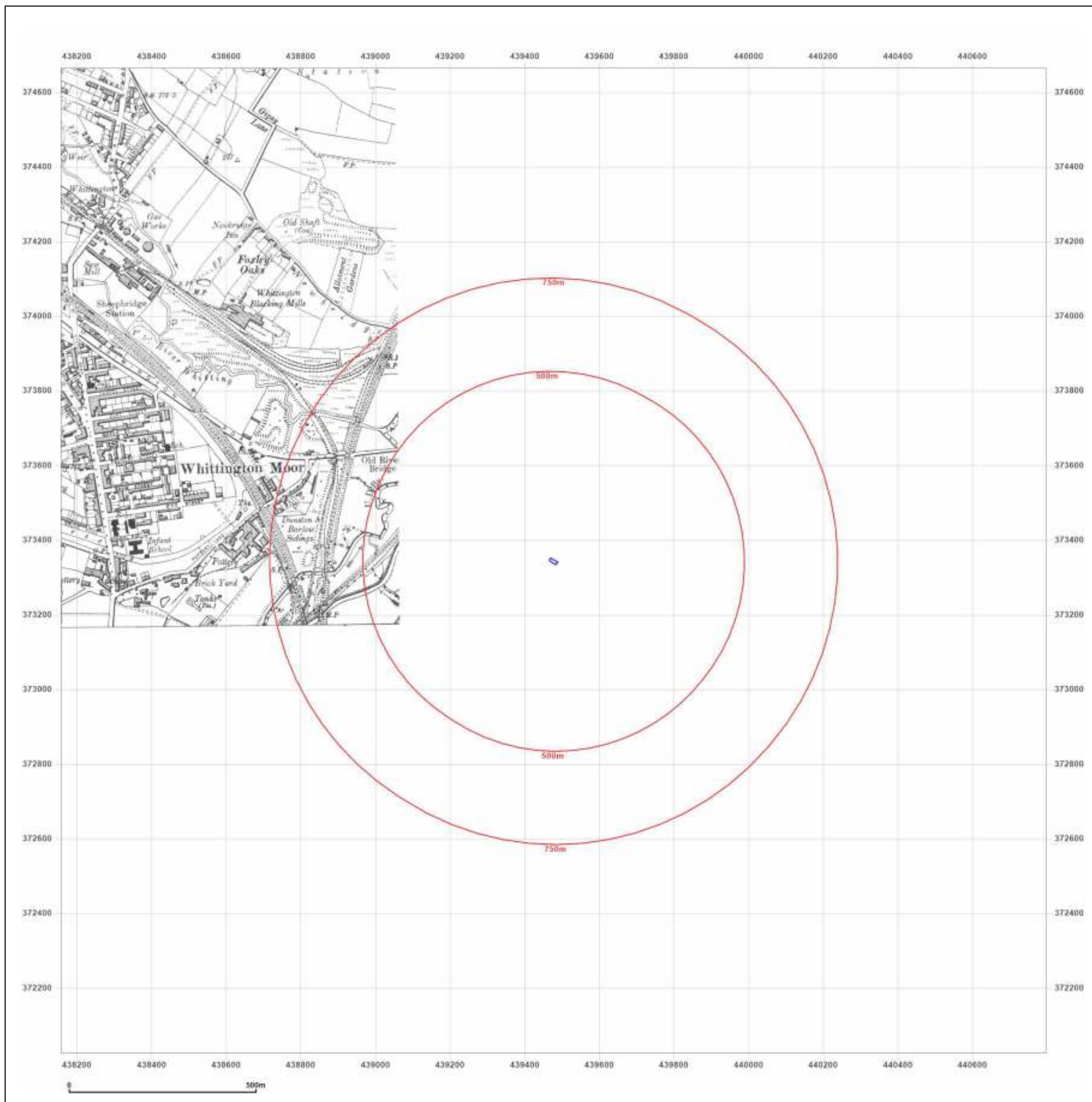


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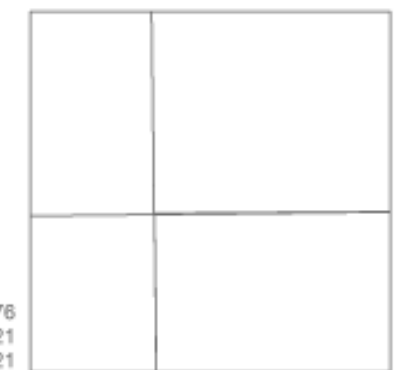
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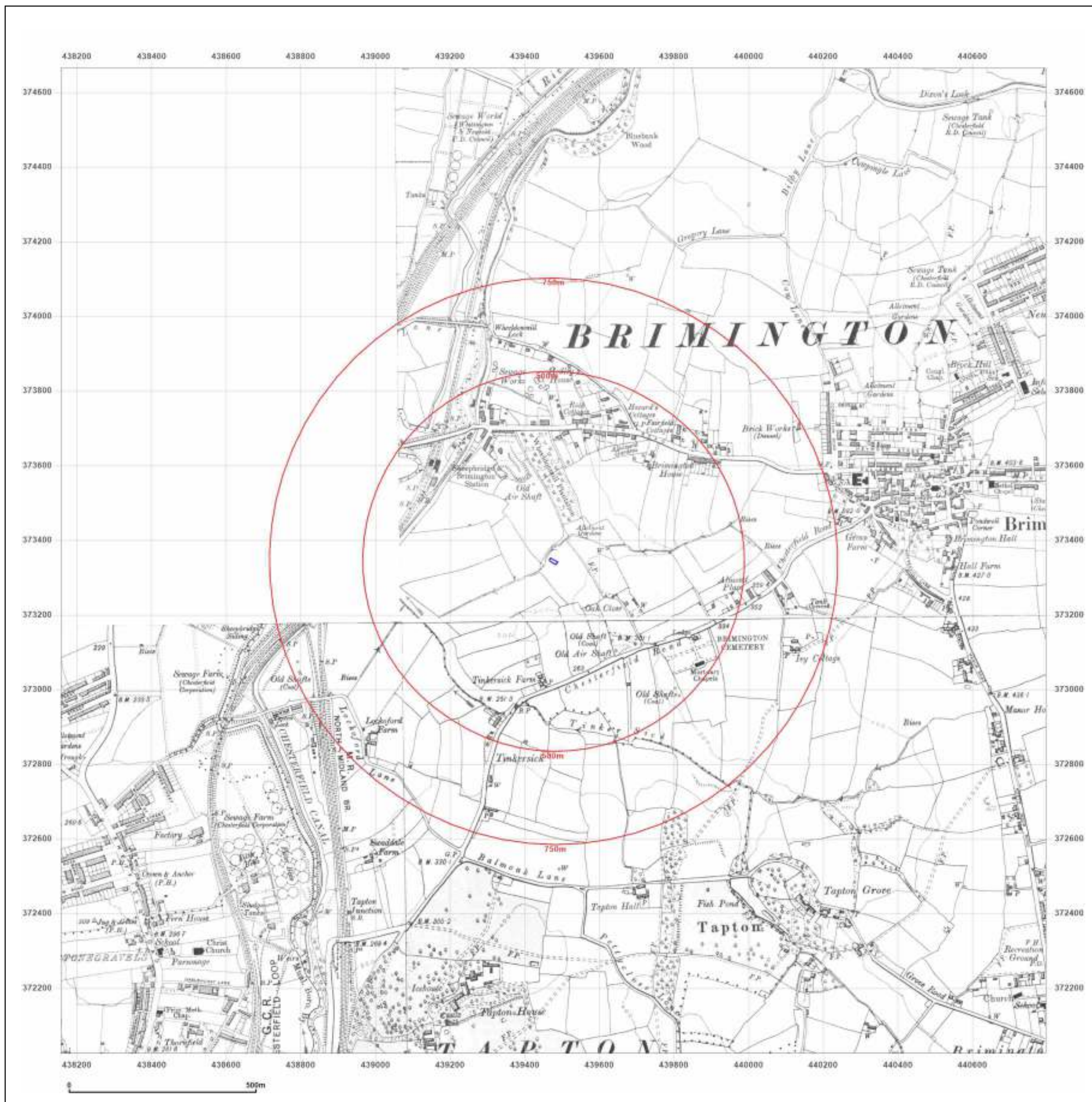


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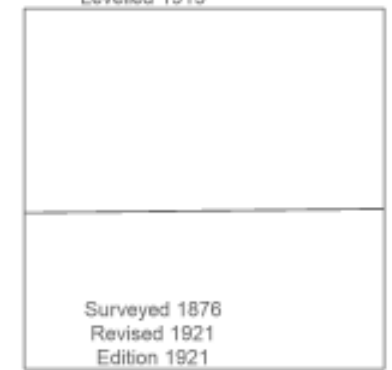
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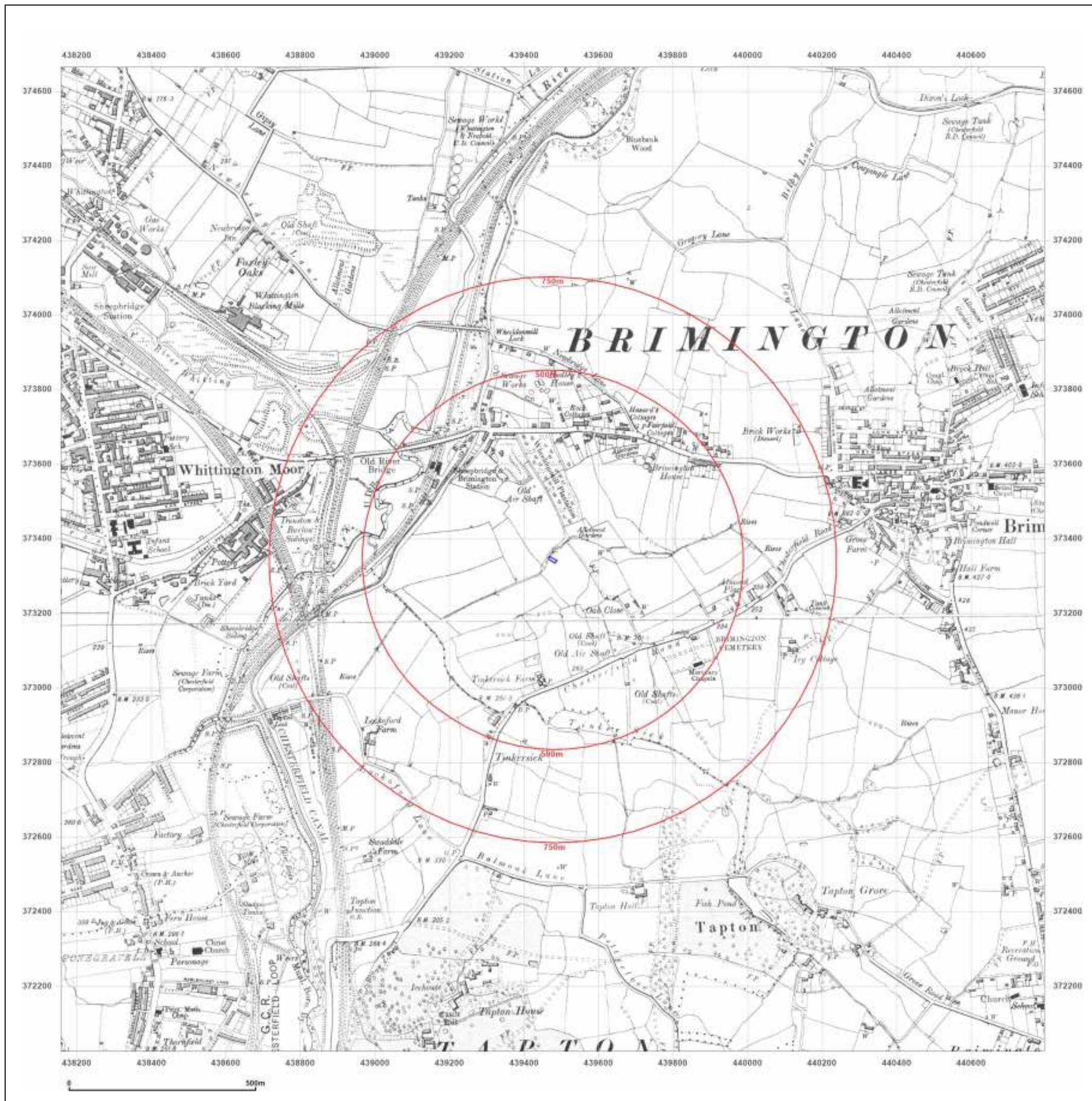


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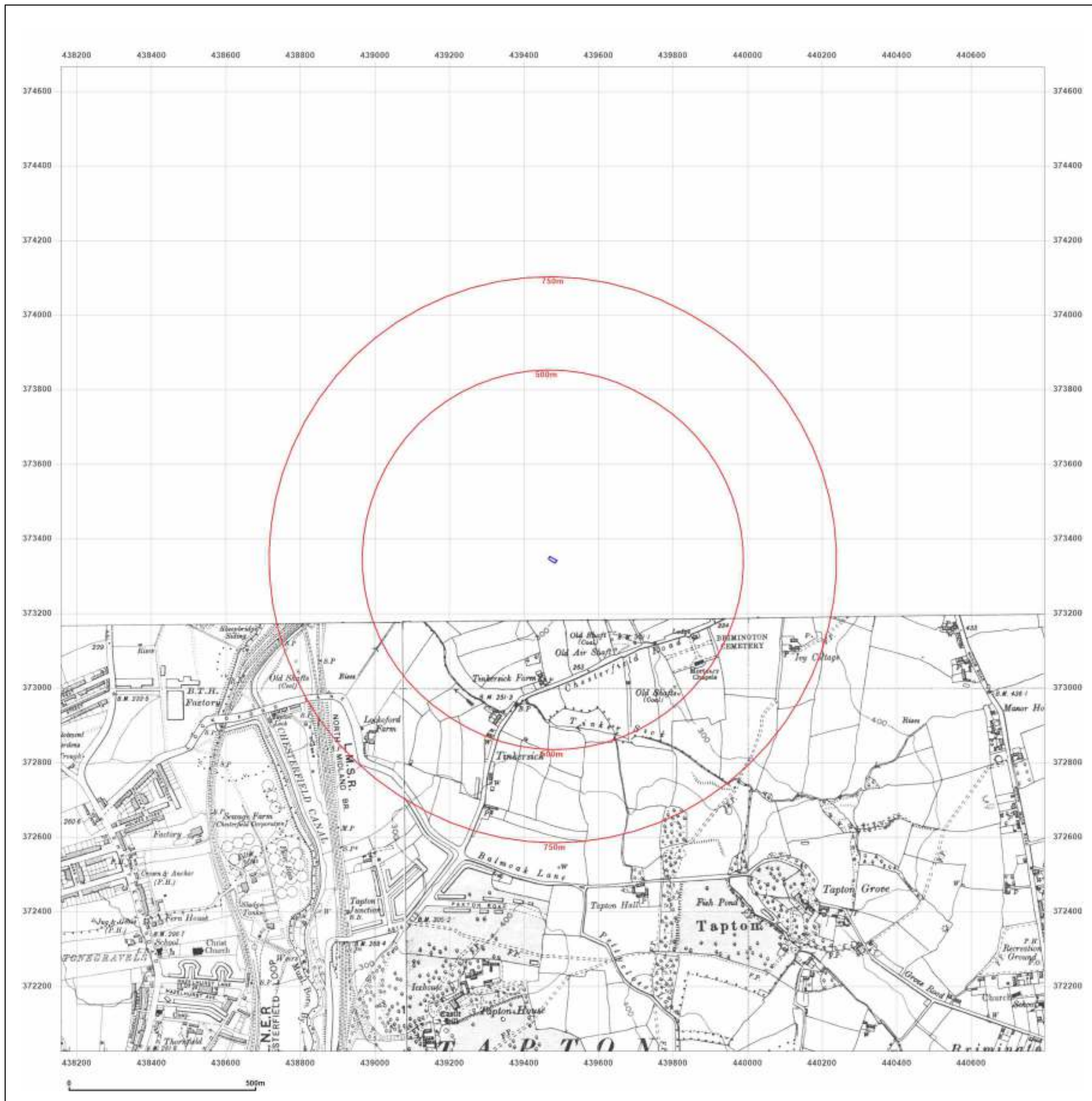
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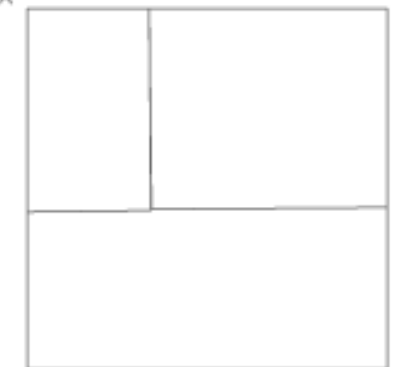
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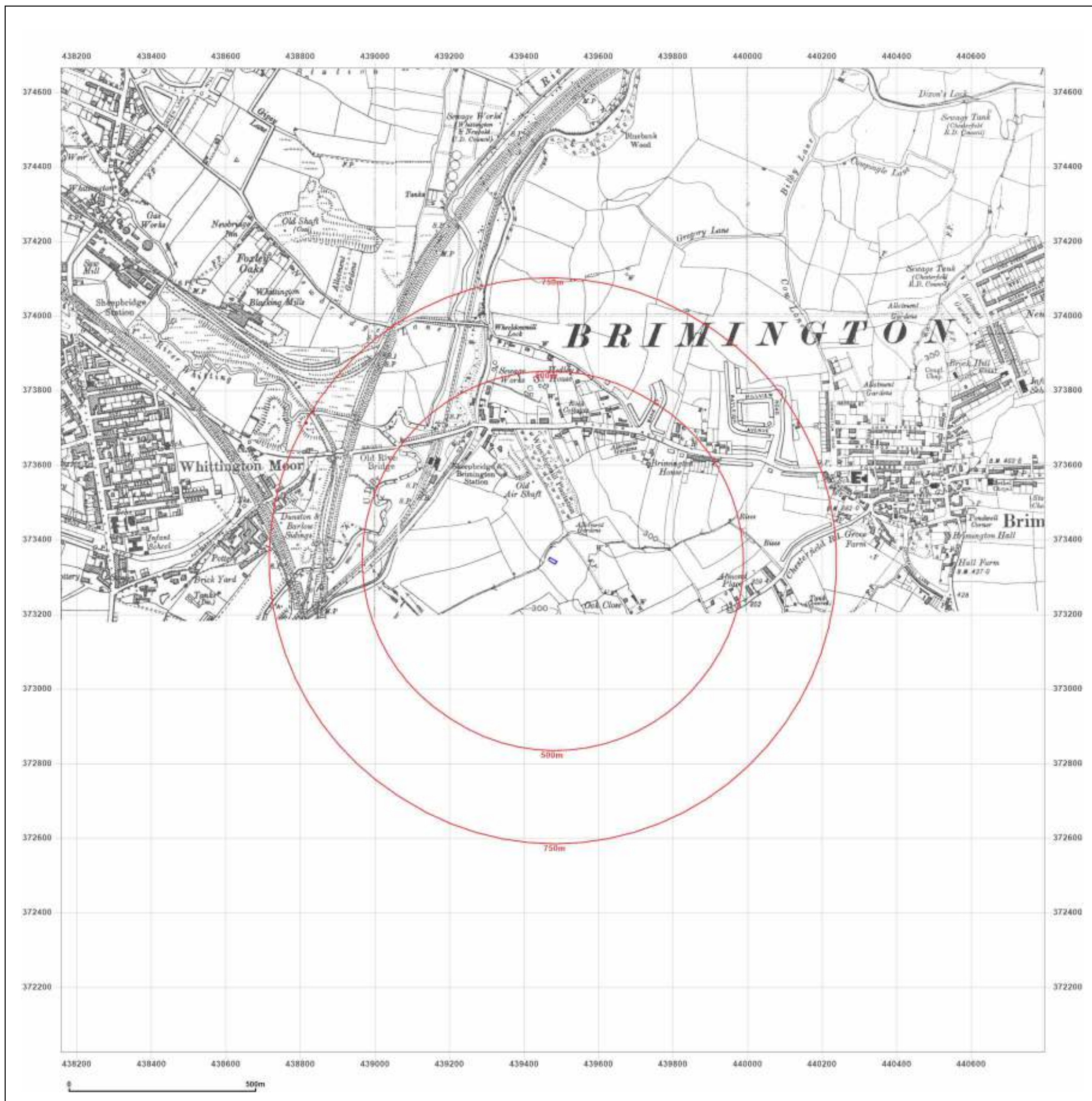


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Map Name: County Series

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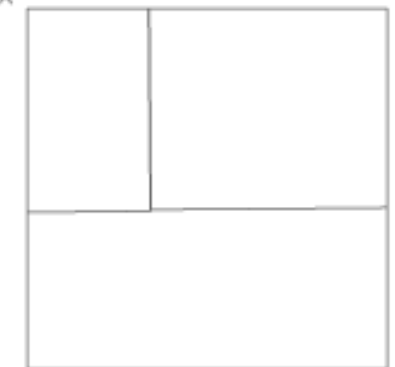
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Printed at: 1:10,560



Surveyed 1876
Revised 1945
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1947
Edition 1947
Copyright N/A
Levelled 1945



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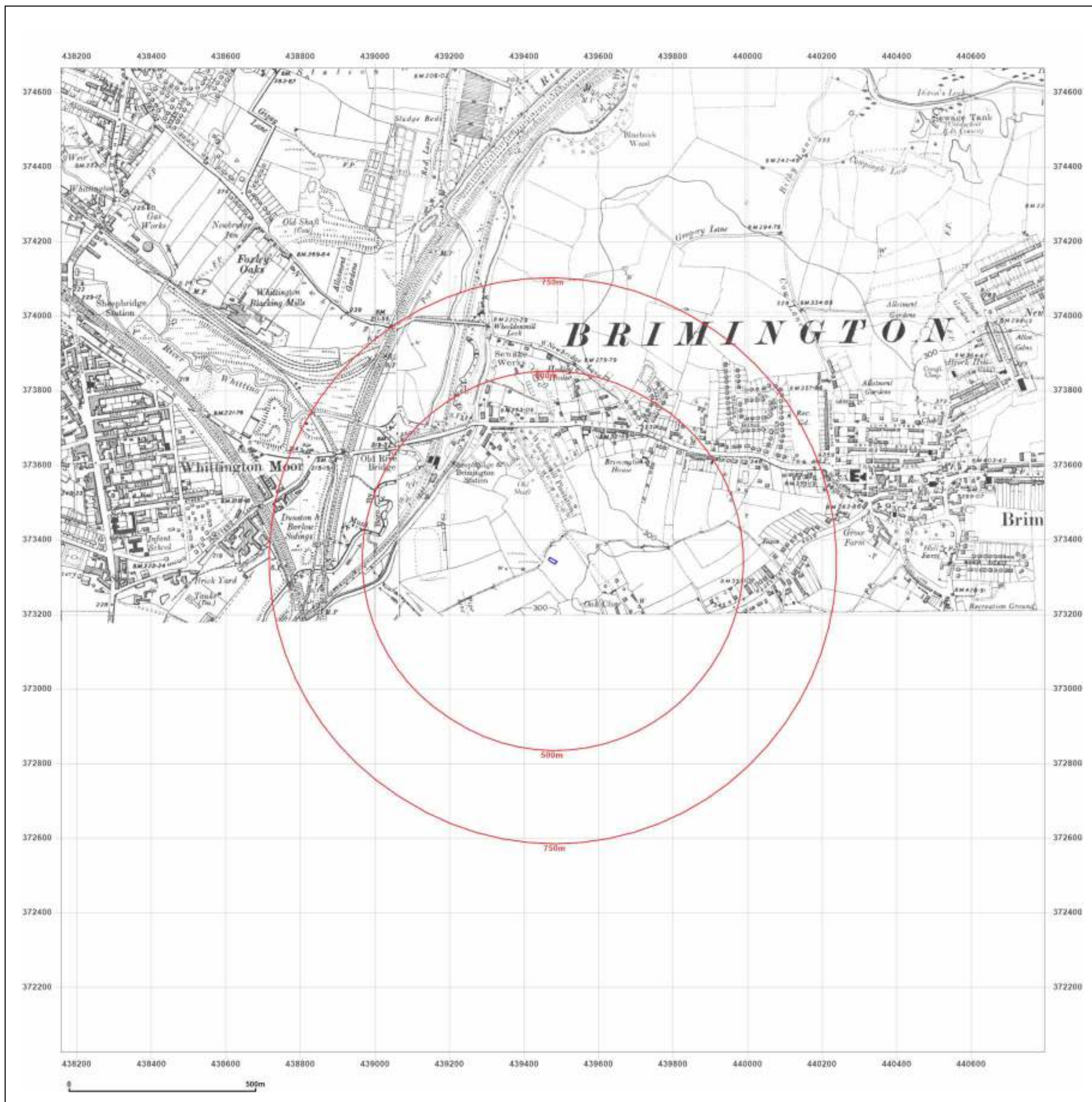


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Site Details:

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Client Ref: 4199
Report Ref: CMAPS-CM-950025-4199-270321HIS
Grid Ref: 439476, 373344

Map Name: Provisional

Map date: 1950-1955

Scale: 1:10,560

Printed at: 1:10,560



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

Surveyed 1950
Revised 1950
Edition N/A
Copyright 1950
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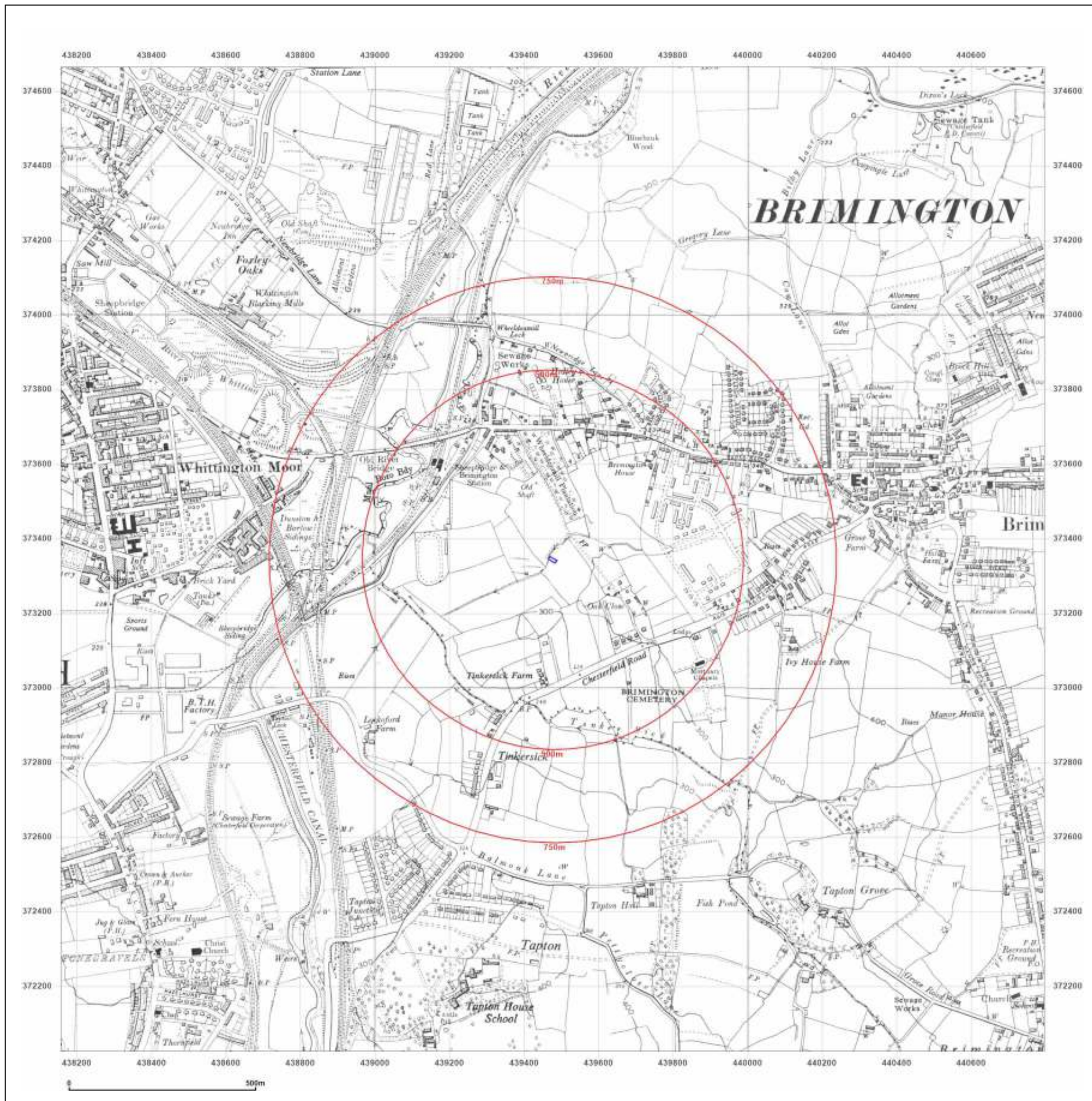


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Client Ref: 4199
Report Ref: CMAPS-CM-950025-4199-270321HIS
Grid Ref: 439476, 373344

Map Name: Provisional

Map date: 1967-1968

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1968
Revised 1968
Edition N/A
Copyright 1968
Levelled N/A

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



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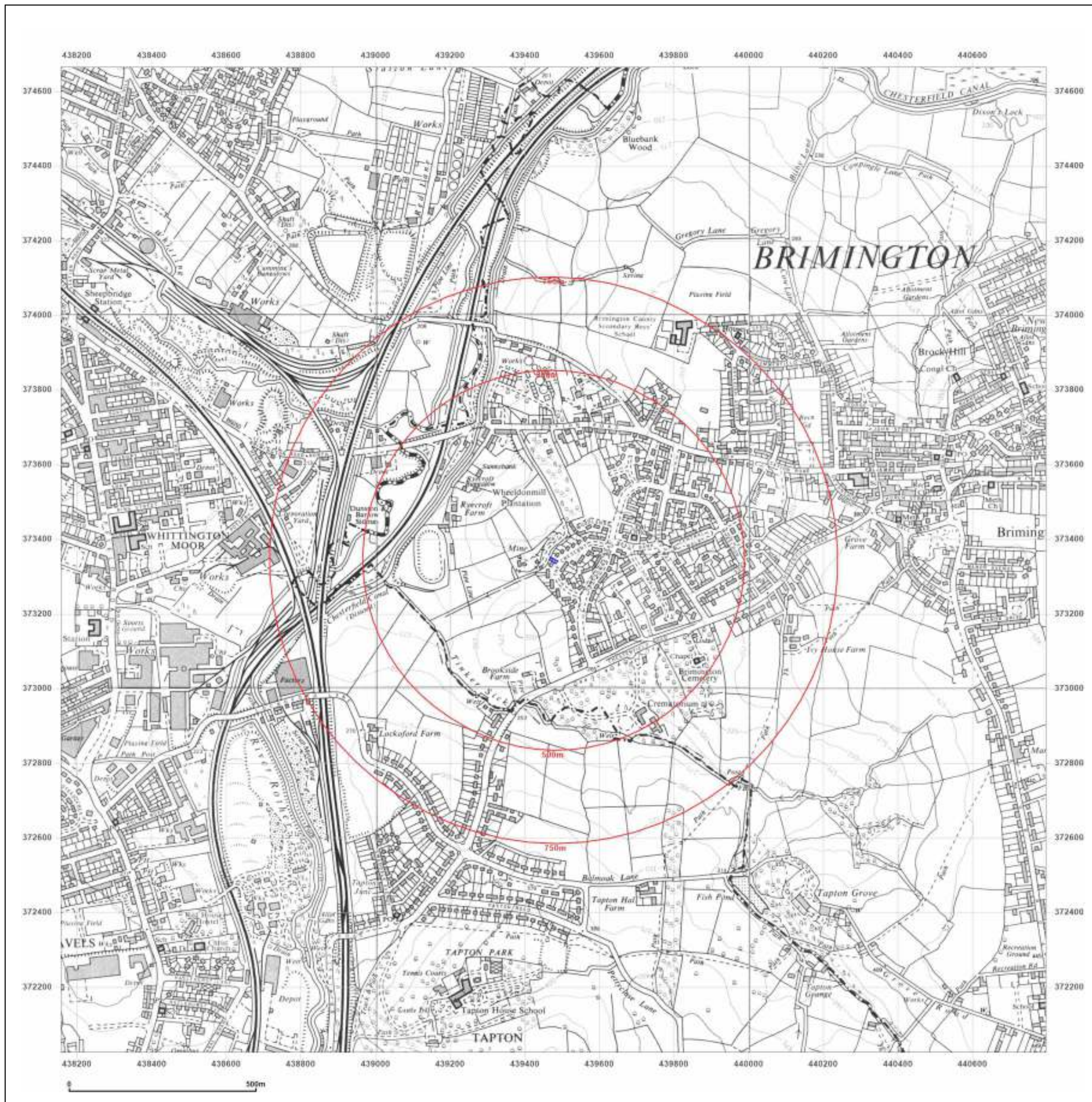


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Site Details:

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Brimington, S43 1AZ

Client Ref: 4199
Report Ref: CMAPS-CM-950025-4199-270321HIS
Grid Ref: 439476, 373344

Map Name: National Grid

Map date: 1973-1976

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1976
Revised 1976
Edition N/A
Copyright 1976
Levelled 1977

Surveyed 1973
Revised 1973
Edition N/A
Copyright 1973
Levelled N/A



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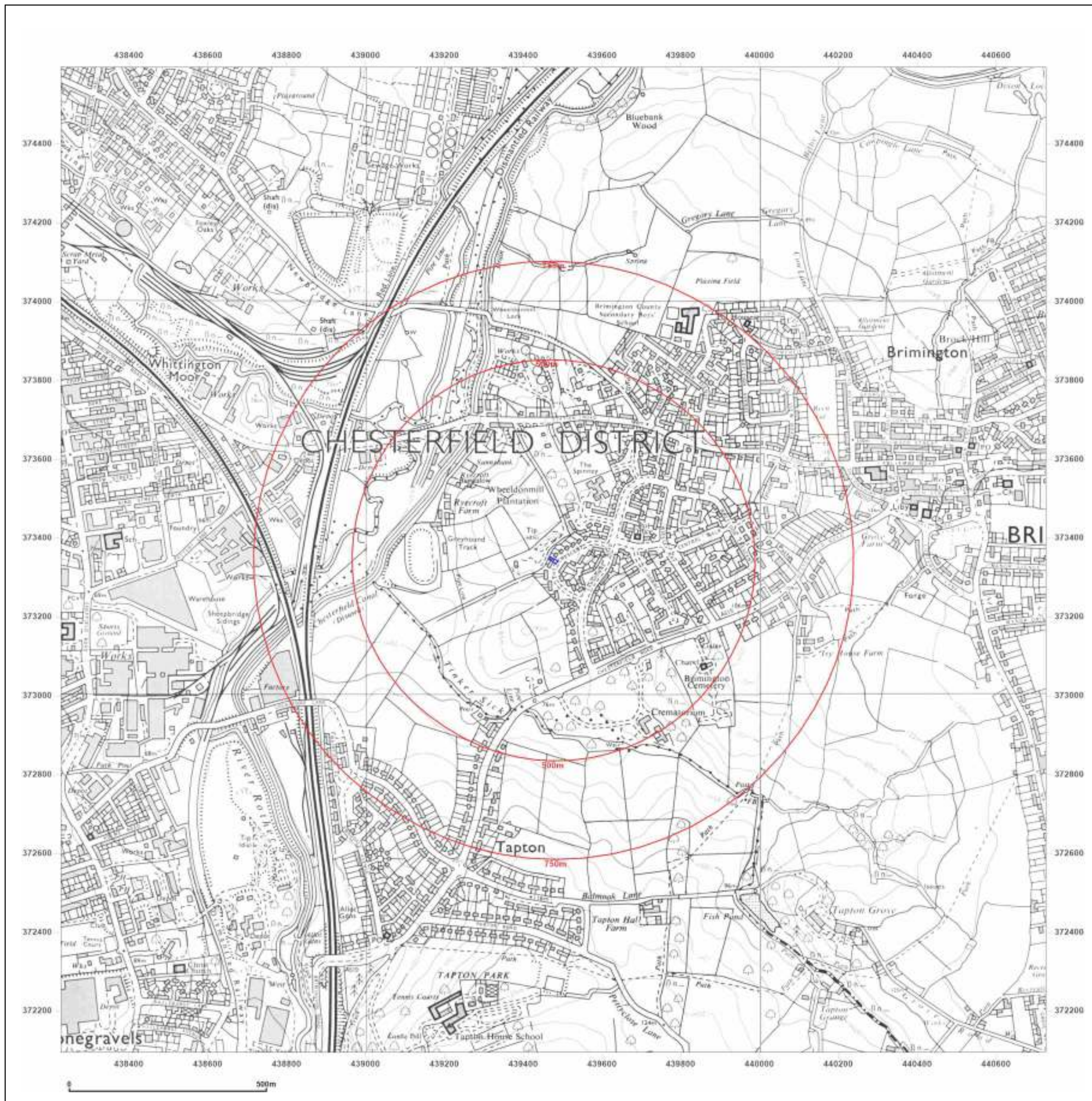


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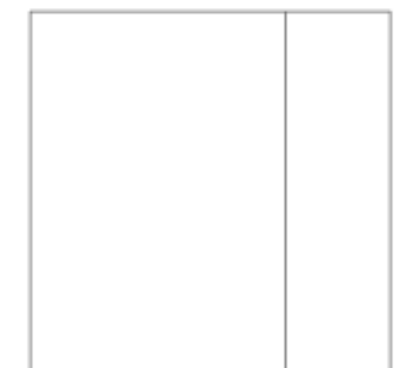
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Report Ref: CMAPS-CM-950025-4199-270321HIS
Grid Ref: 439476, 373344

Map Name: National Grid

Map date: 1982

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1977
Revised 1982
Edition N/A
Copyright 1982
Levelled 1981



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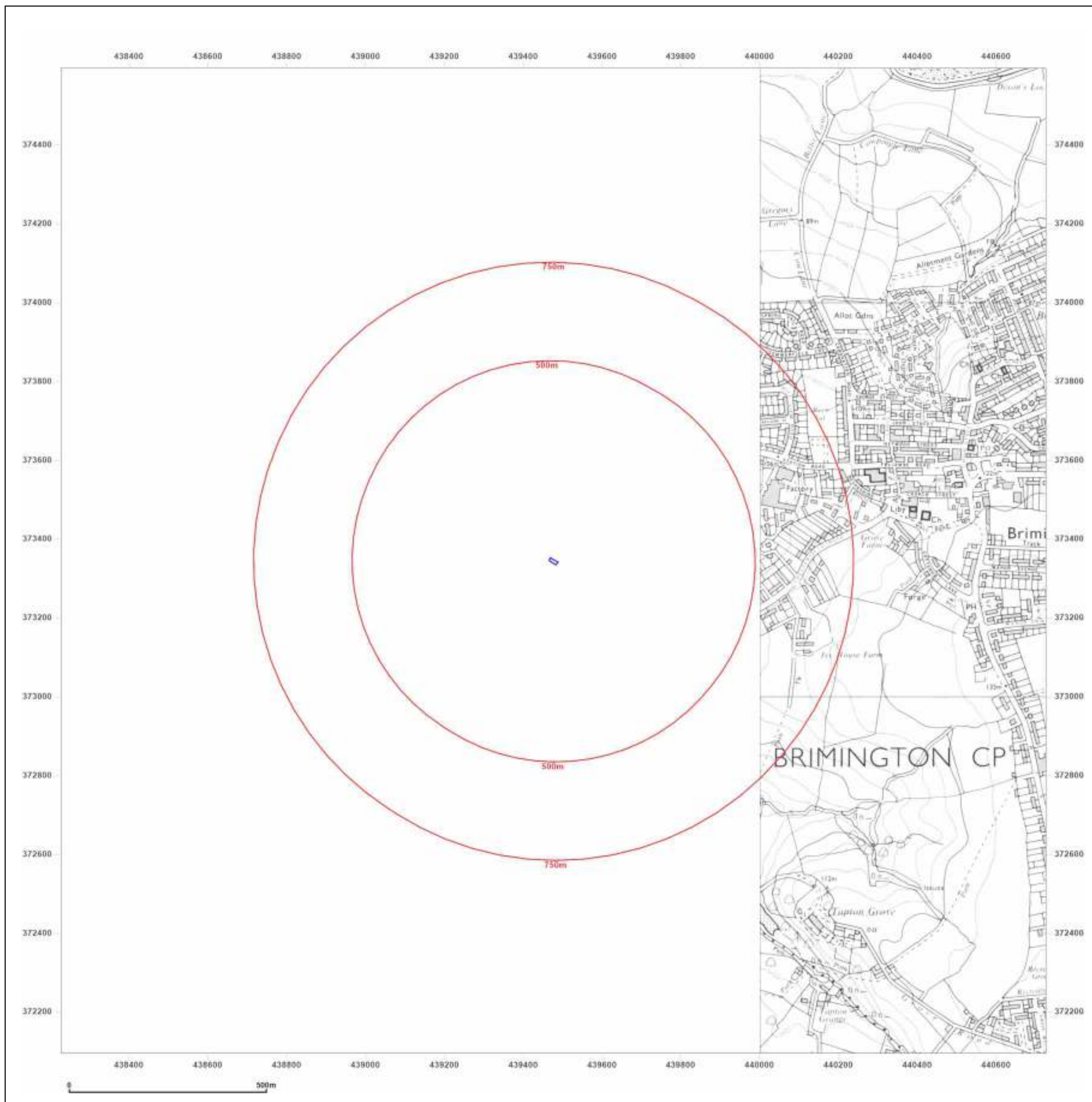


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Site Details:

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Brimington, S43 1AZ

Client Ref: 4199
Report Ref: CMAPS-CM-950025-4199-270321HIS
Grid Ref: 439476, 373344

Map Name: National Grid

Map date: 1990-1991

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1989 Revised 1991 Edition N/A Copyright 1991 Levelled 1981	Surveyed 1977 Revised 1990 Edition N/A Copyright 1990 Levelled 1981
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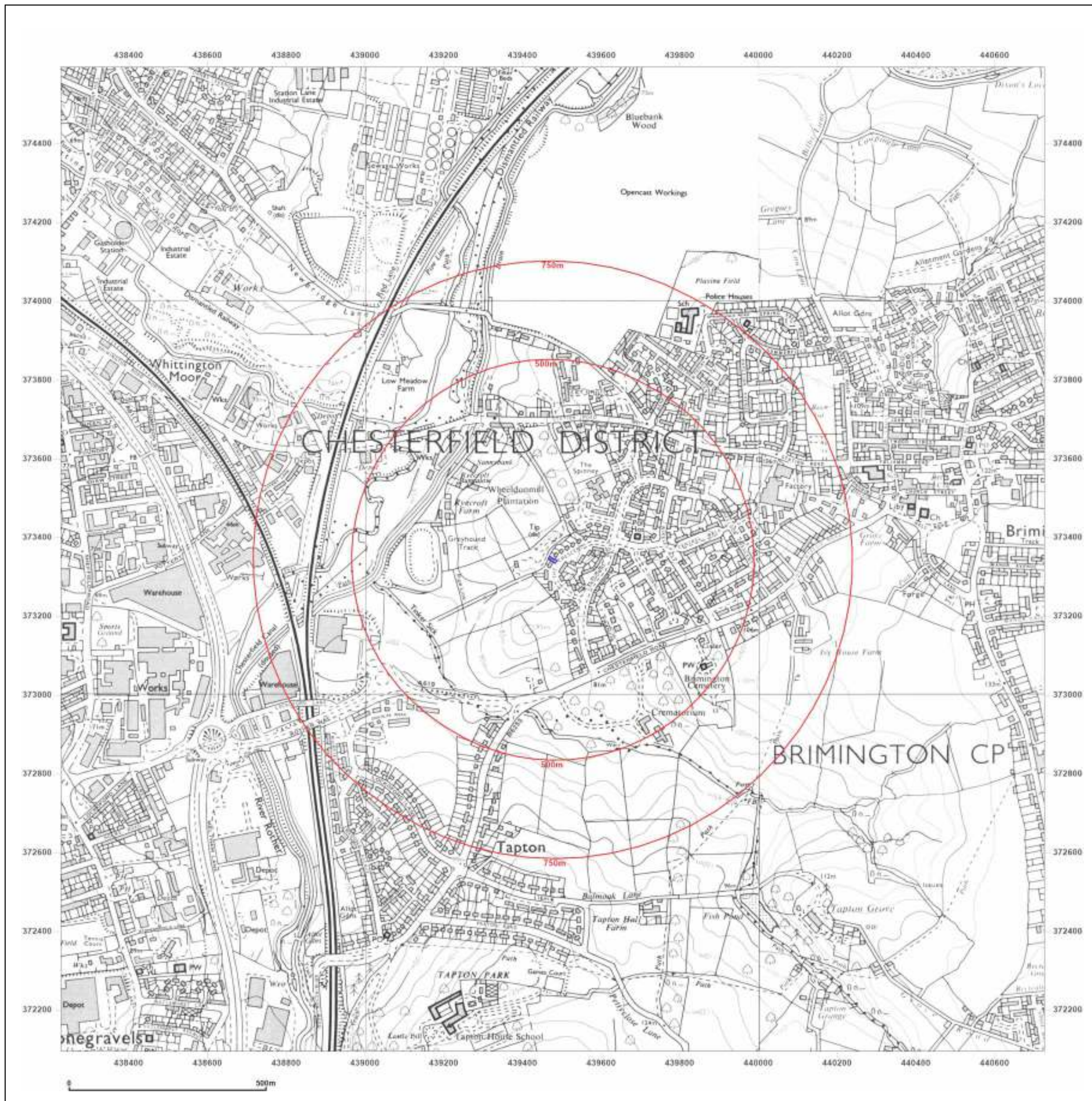


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Site Details:

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Client Ref: 4199
Report Ref: CMAPS-CM-950025-4199-270321HIS
Grid Ref: 439476, 373344

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



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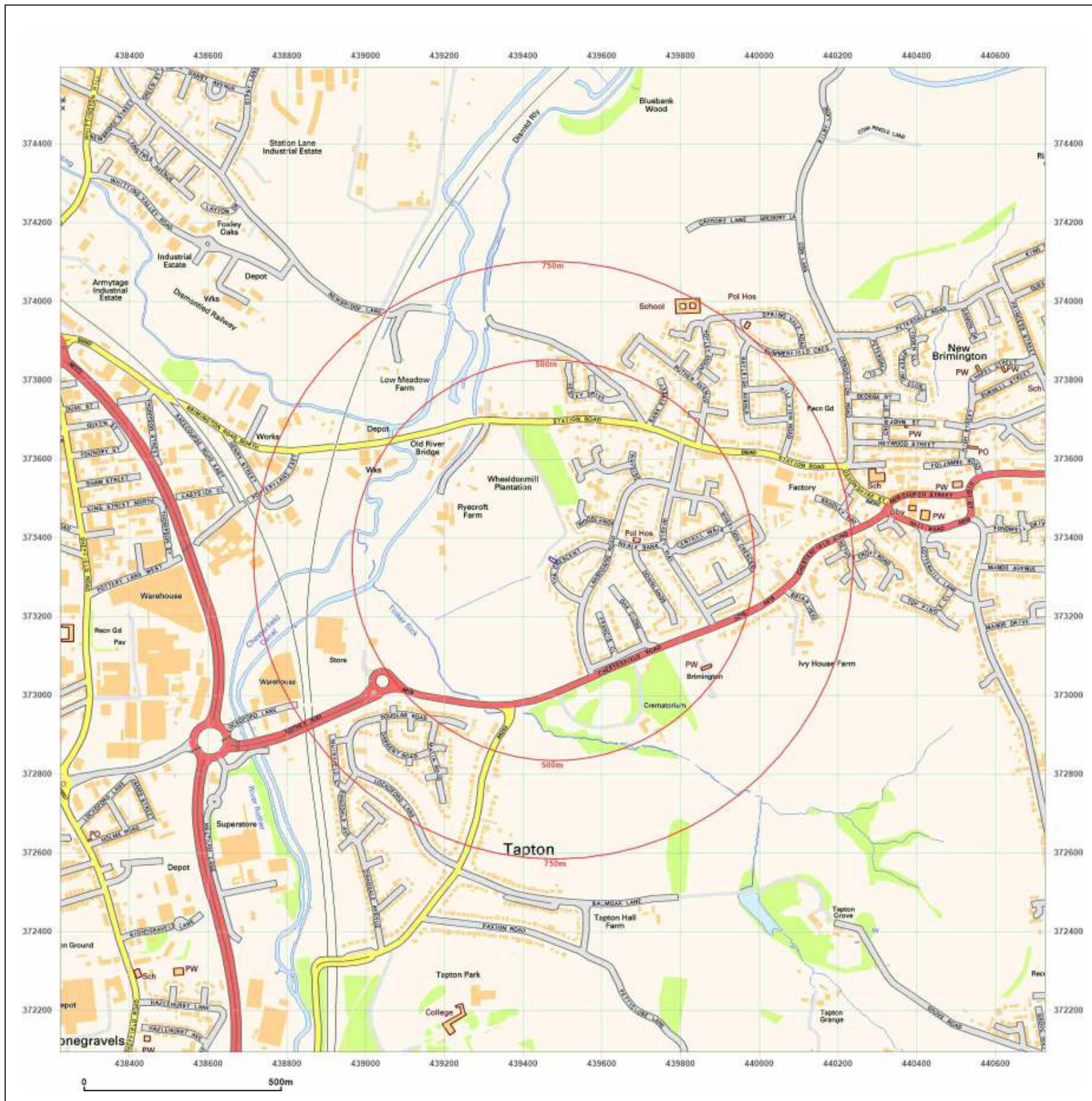


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Client Ref: 4199
Report Ref: CMAPS-CM-950025-4199-270321HIS
Grid Ref: 439476, 373344

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



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Client Ref: 4199
Report Ref: CMAPS-CM-950025-4199-270321HIS
Grid Ref: 439476, 373344

Map Name: National Grid

Map date: 2021

Scale: 1:10,000

Printed at: 1:10,000



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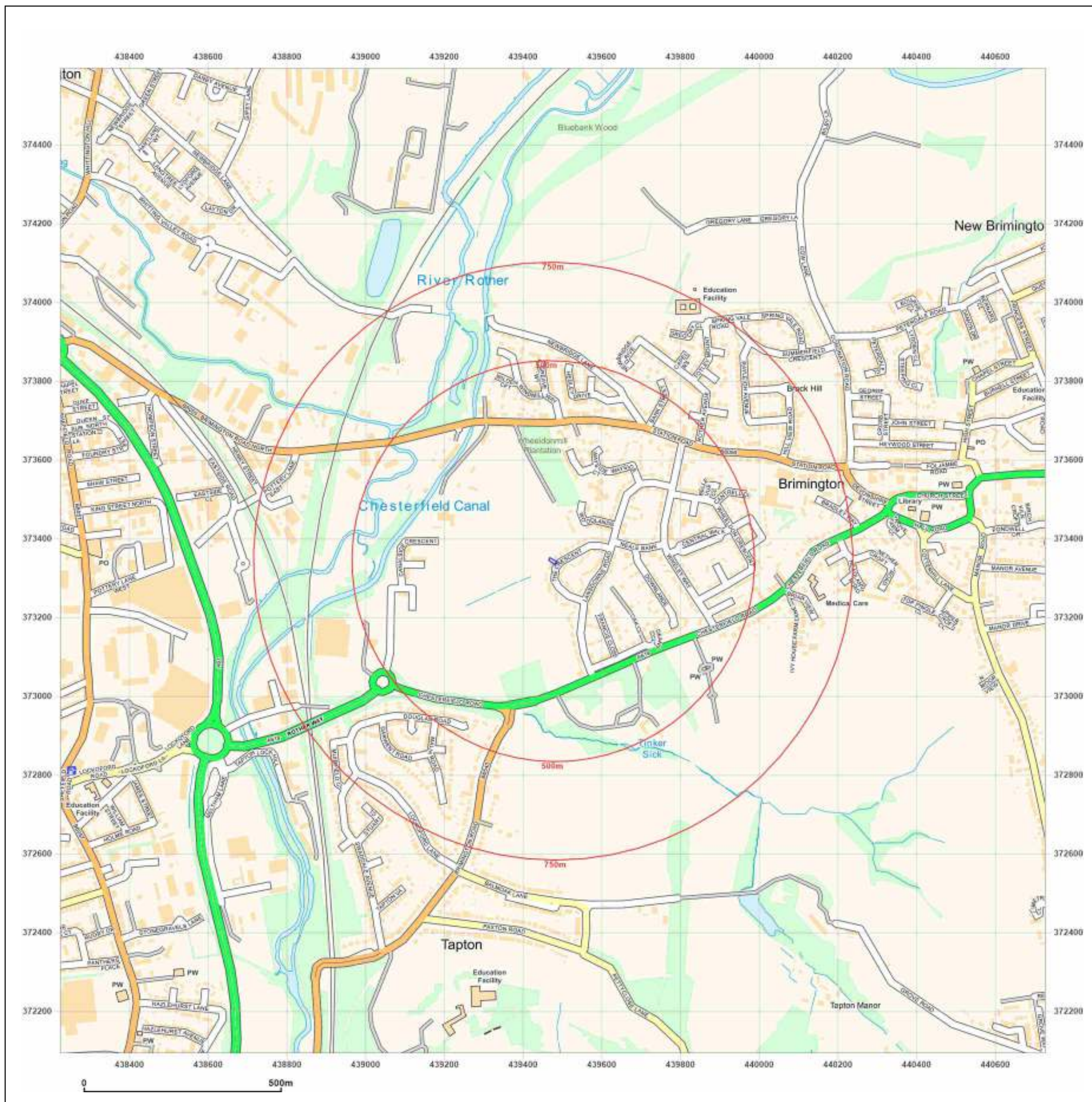


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LARGE SCALE SURVEY PLANS



Site Details:

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Client Ref: 4199
Report Ref: CMAPS-CM-950025-4199-270321HIS
Grid Ref: 439476, 373344

Map Name: County Series

Map date: 1876-1881

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1881
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1876
Revised 1876
Edition N/A
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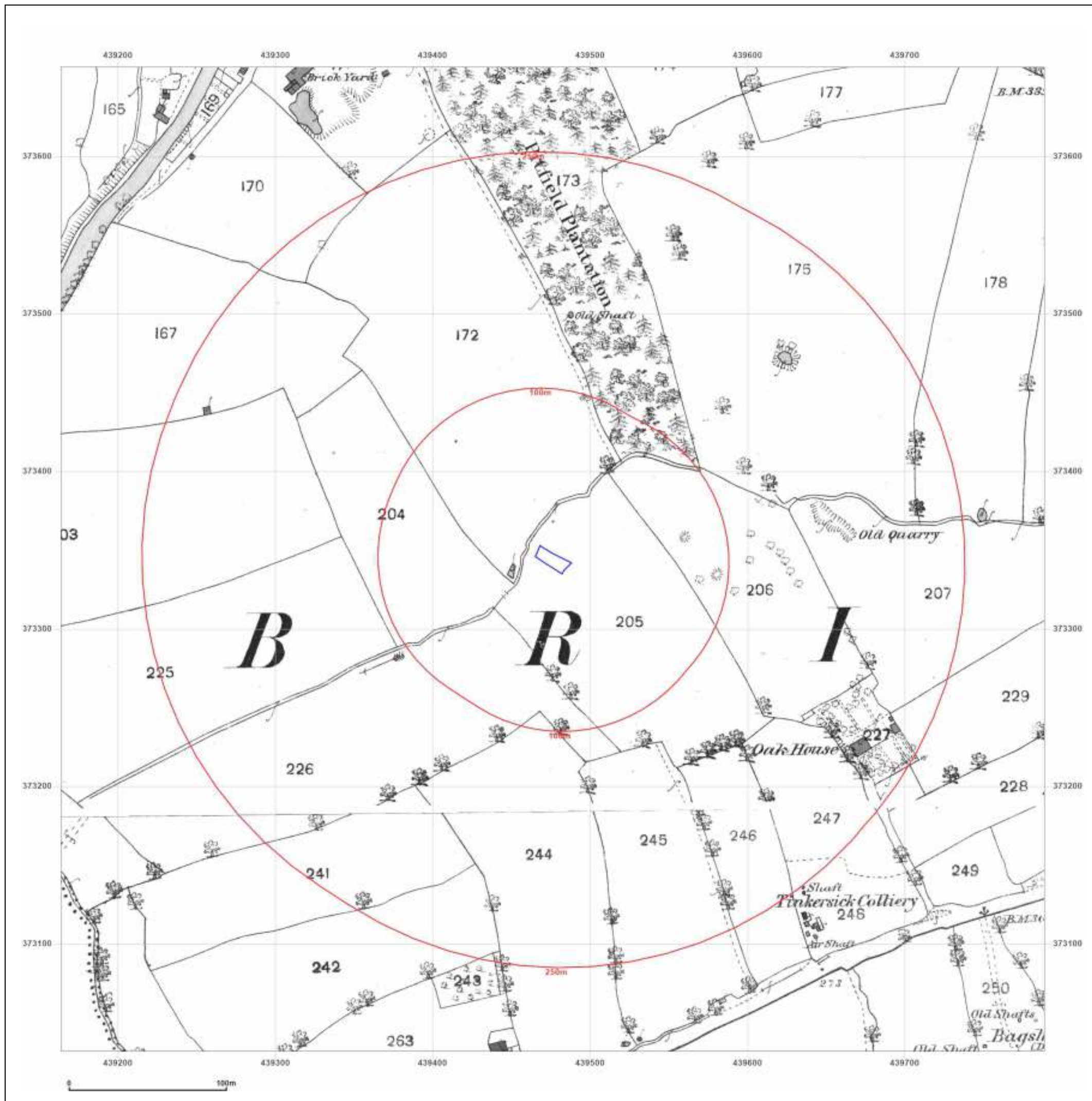


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Production date: 27 March 2021

Map legend available at:
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Site Details:

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Brimington, S43 1AZ

Client Ref: 4199
Report Ref: CMAPS-CM-950025-4199-270321HIS
Grid Ref: 439476, 373344

Map Name: County Series

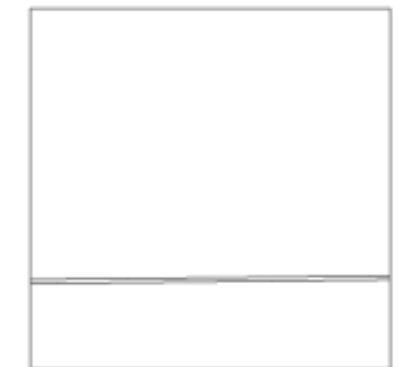
Map date: 1898

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1877
Revised 1897
Edition 1898
Copyright N/A
Levelled N/A



Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A



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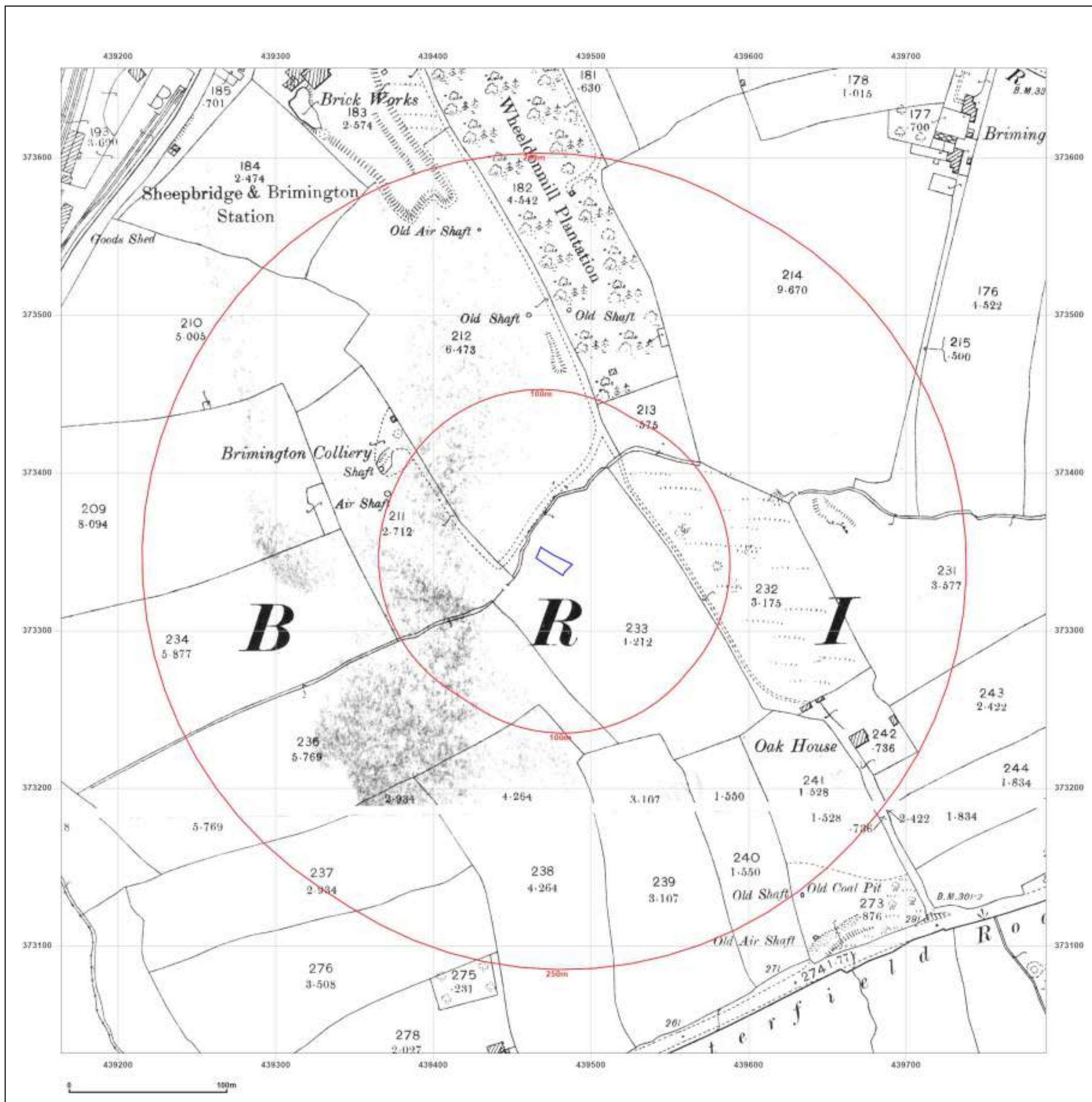


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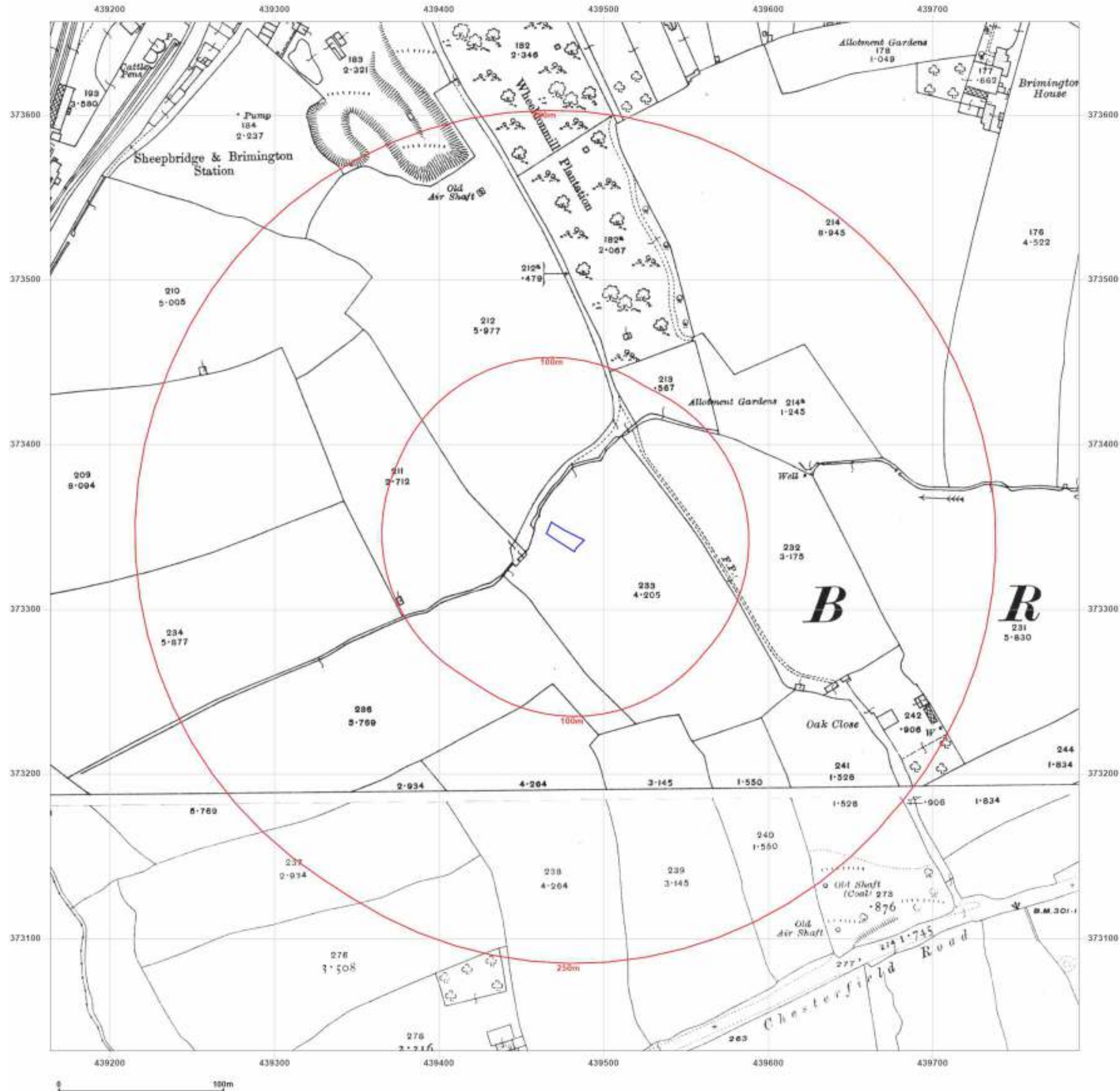
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Report Ref: CMAPS-CM-950025-4199-270321HIS
Grid Ref: 439476, 373344

Map Name: County Series

Map date: 1916-1918

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1877
Revised 1914
Edition 1916
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Surveyed 1918
Revised 1918
Edition N/A
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Client Ref: 4199
Report Ref: CMAPS-CM-950025-4199-270321HIS
Grid Ref: 439476, 373344

Map Name: County Series

Map date: 1938

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1877
Revised 1938
Edition 1938
Copyright N/A
Levelled 1915



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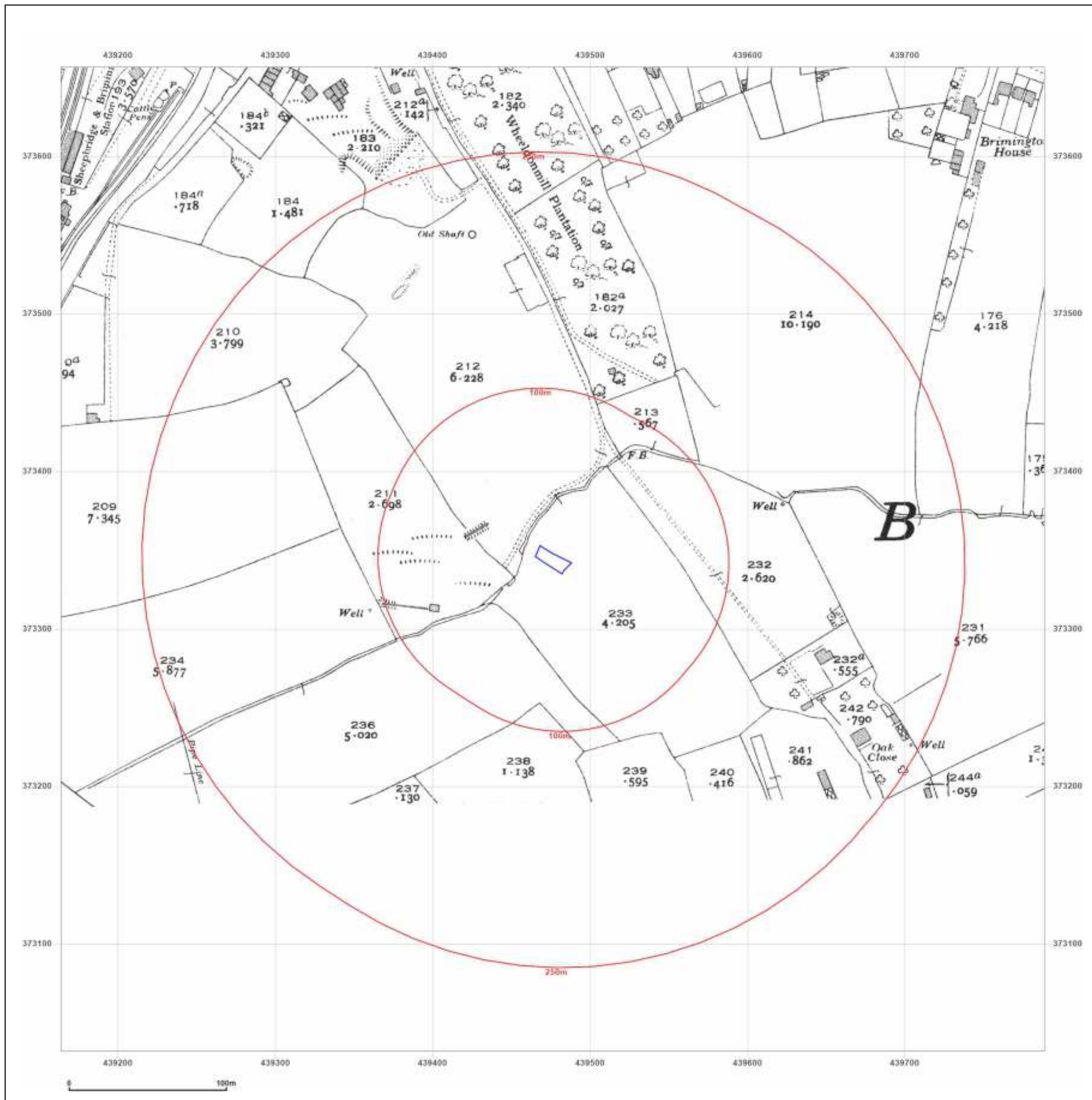


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Client Ref: 4199
Report Ref: CMAPS-CM-950025-4199-270321HIS
Grid Ref: 439476, 373344

Map Name: National Grid

Map date: 1963

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1963
Revised 1963
Edition 1965
Copyright 1965
Levelled 1961



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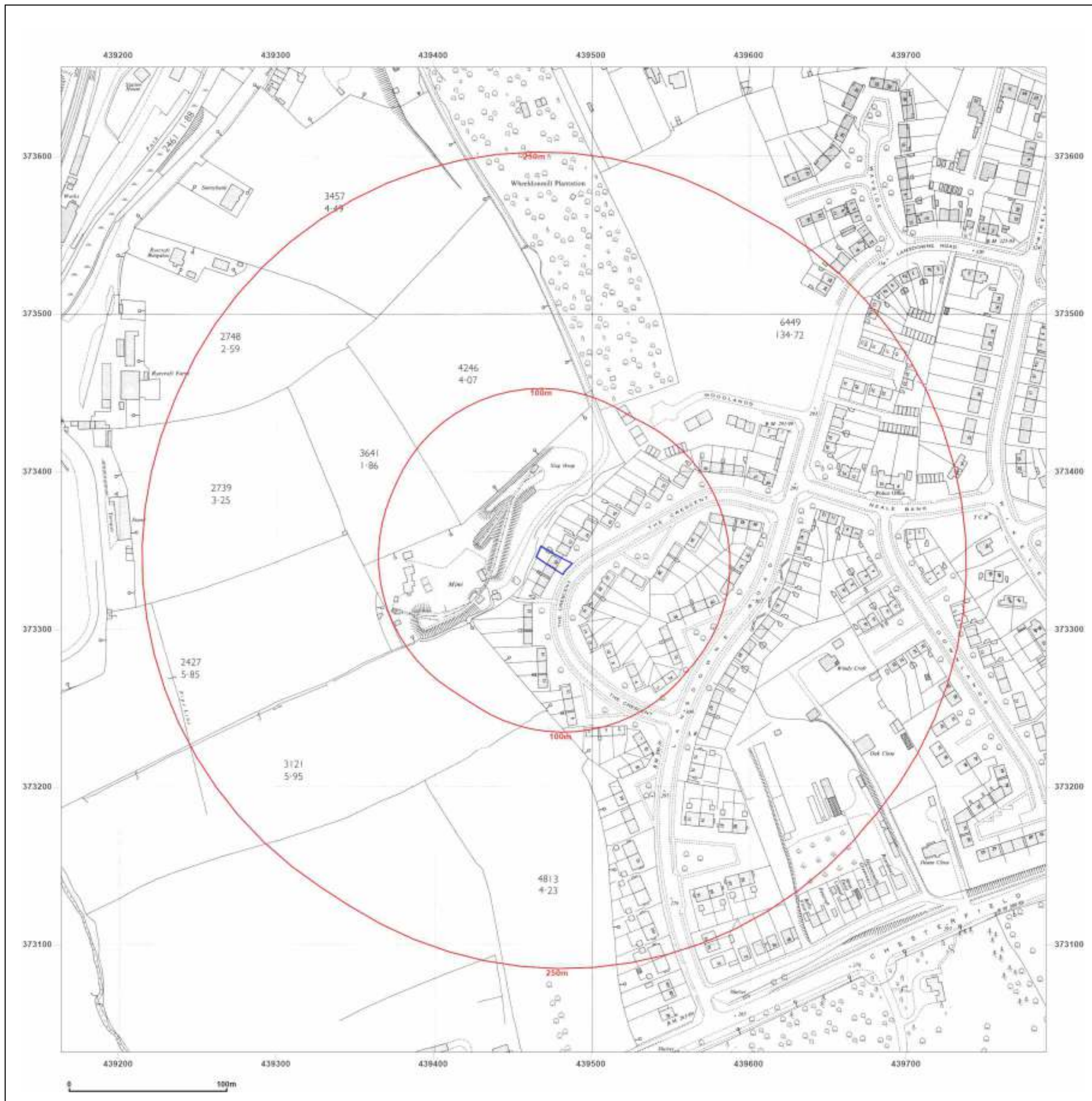


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Client Ref: 4199
Report Ref: CMAPS-CM-950025-4199-270321HIS
Grid Ref: 439476, 373344

Map Name: National Grid

Map date: 1976-1978

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1963
Revised 1976
Edition N/A
Copyright 1978
Levelled 1961

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



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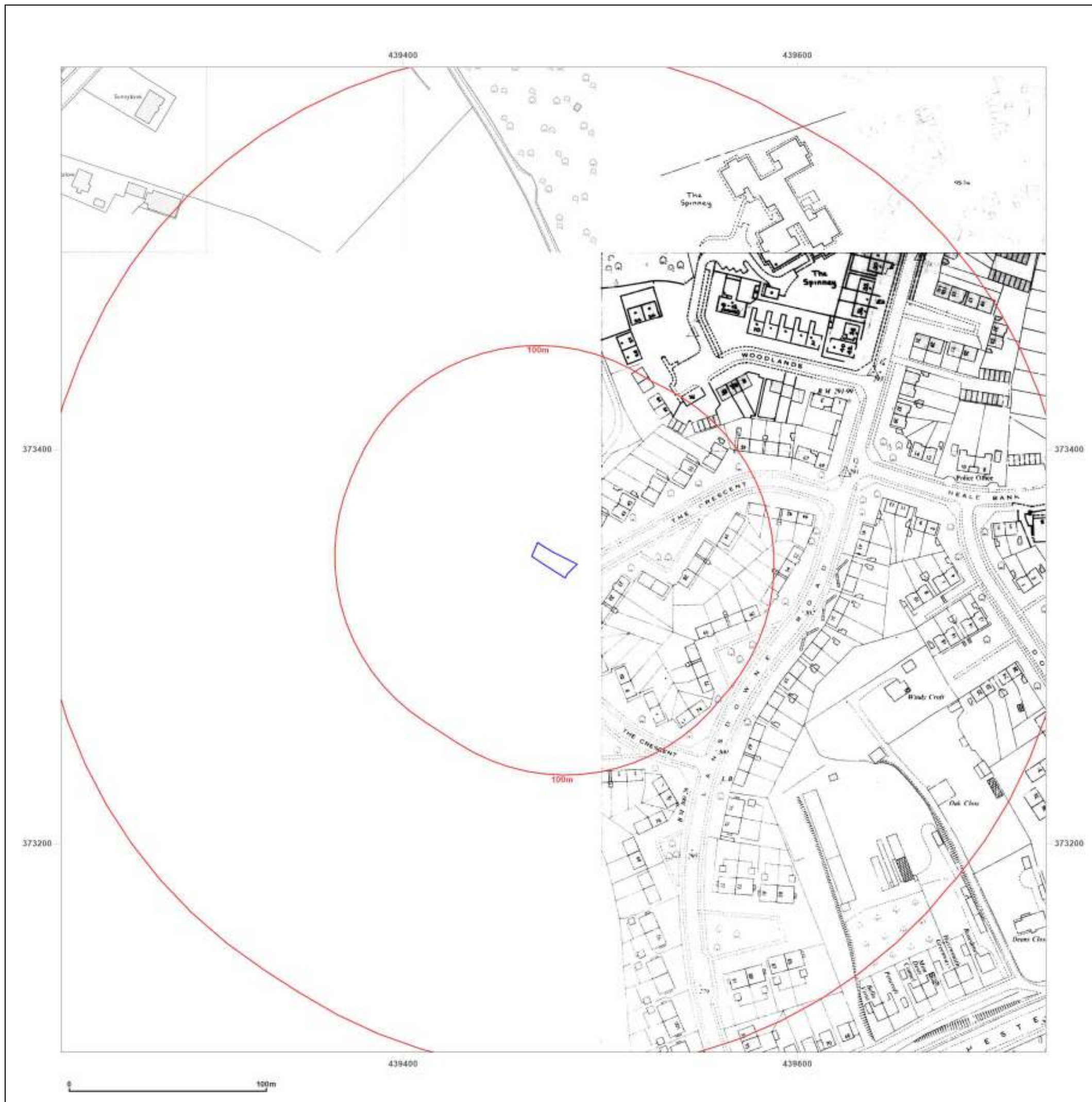


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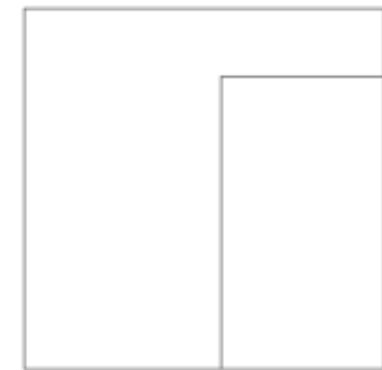
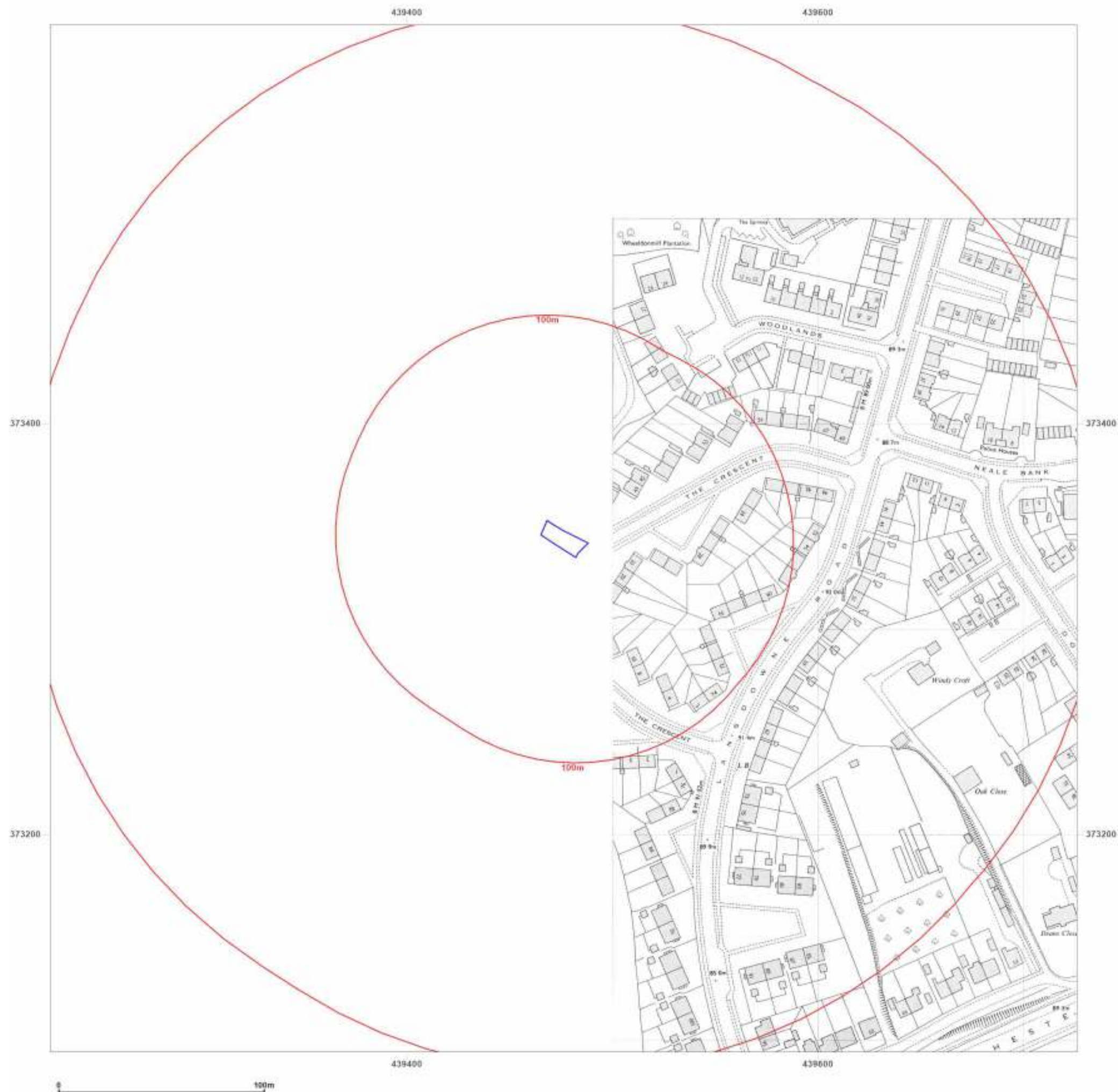
Client Ref: 4199
Report Ref: CMAPS-CM-950025-4199-270321HIS
Grid Ref: 439476, 373344

Map Name: National Grid

Map date: 1978

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1963
Revised 1977
Edition N/A
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Client Ref: 4199
Report Ref: CMAPS-CM-950025-4199-270321HIS
Grid Ref: 439476, 373344

Map Name: National Grid

Map date: 1990-1993

Scale: 1:1,250

Printed at: 1:2,000



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

Surveyed 1961
Revised 1990
Edition N/A
Copyright 1990
Levelled 1961

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

Surveyed 1993
Revised N/A
Edition N/A
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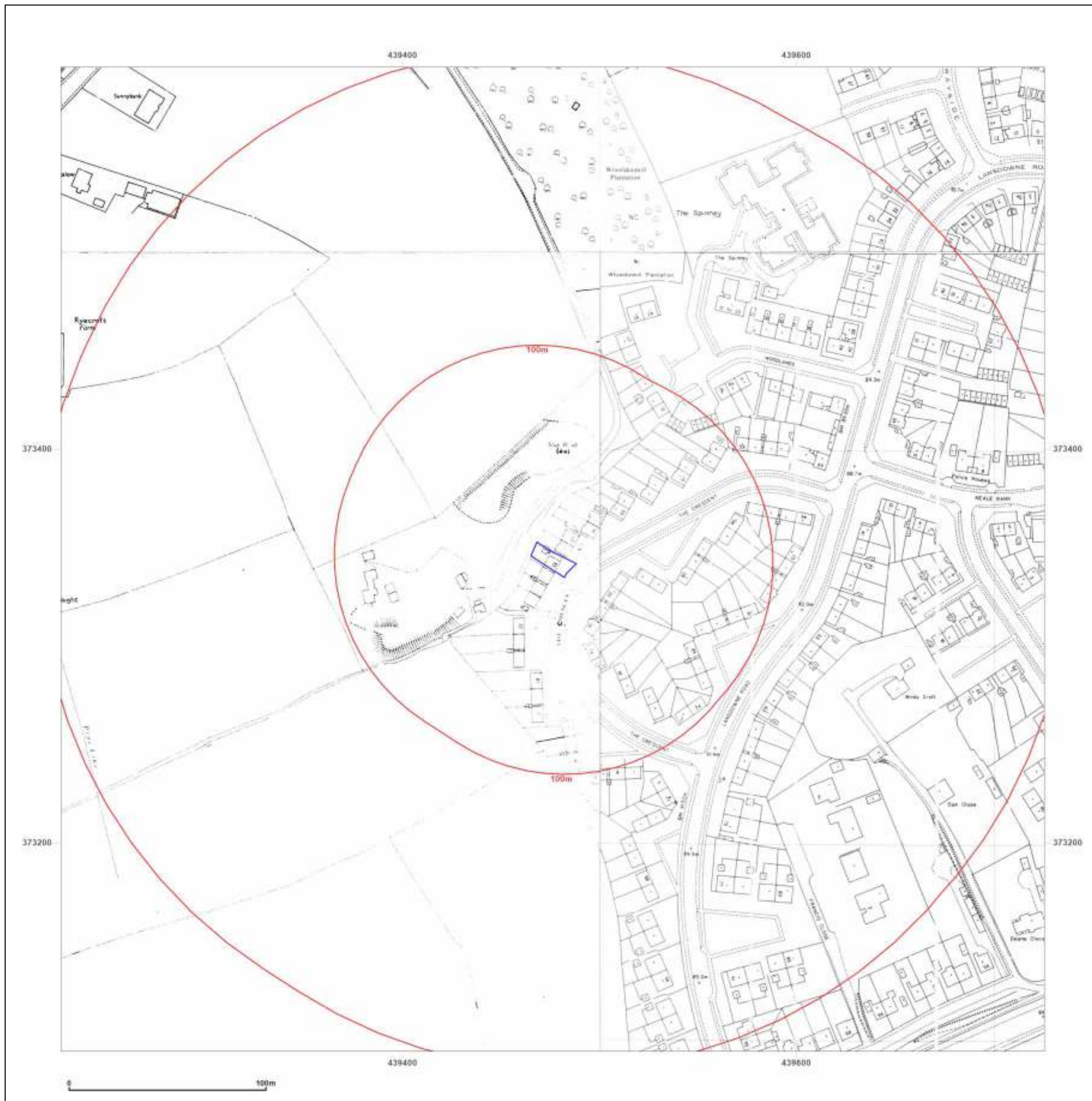


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Client Ref: 4199
Report Ref: CMAPS-CM-950025-4199-270321HIS
Grid Ref: 439476, 373344

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

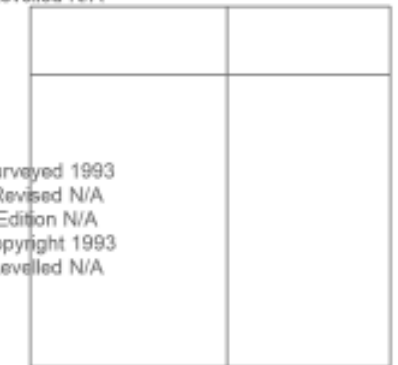
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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

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



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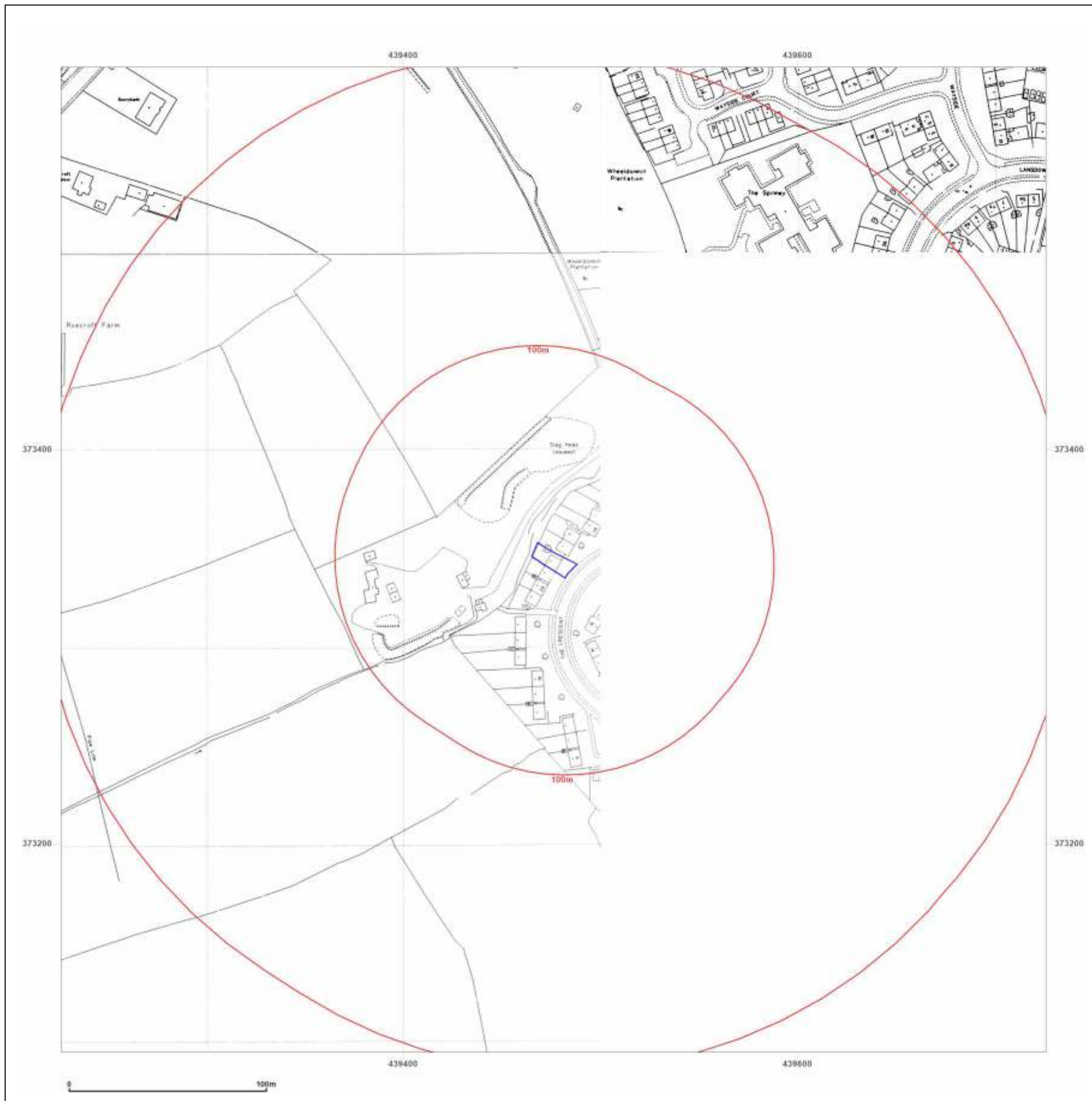


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Client Ref: 4199
Report Ref: CMAPS-CM-950025-4199-270321HIS
Grid Ref: 439476, 373344

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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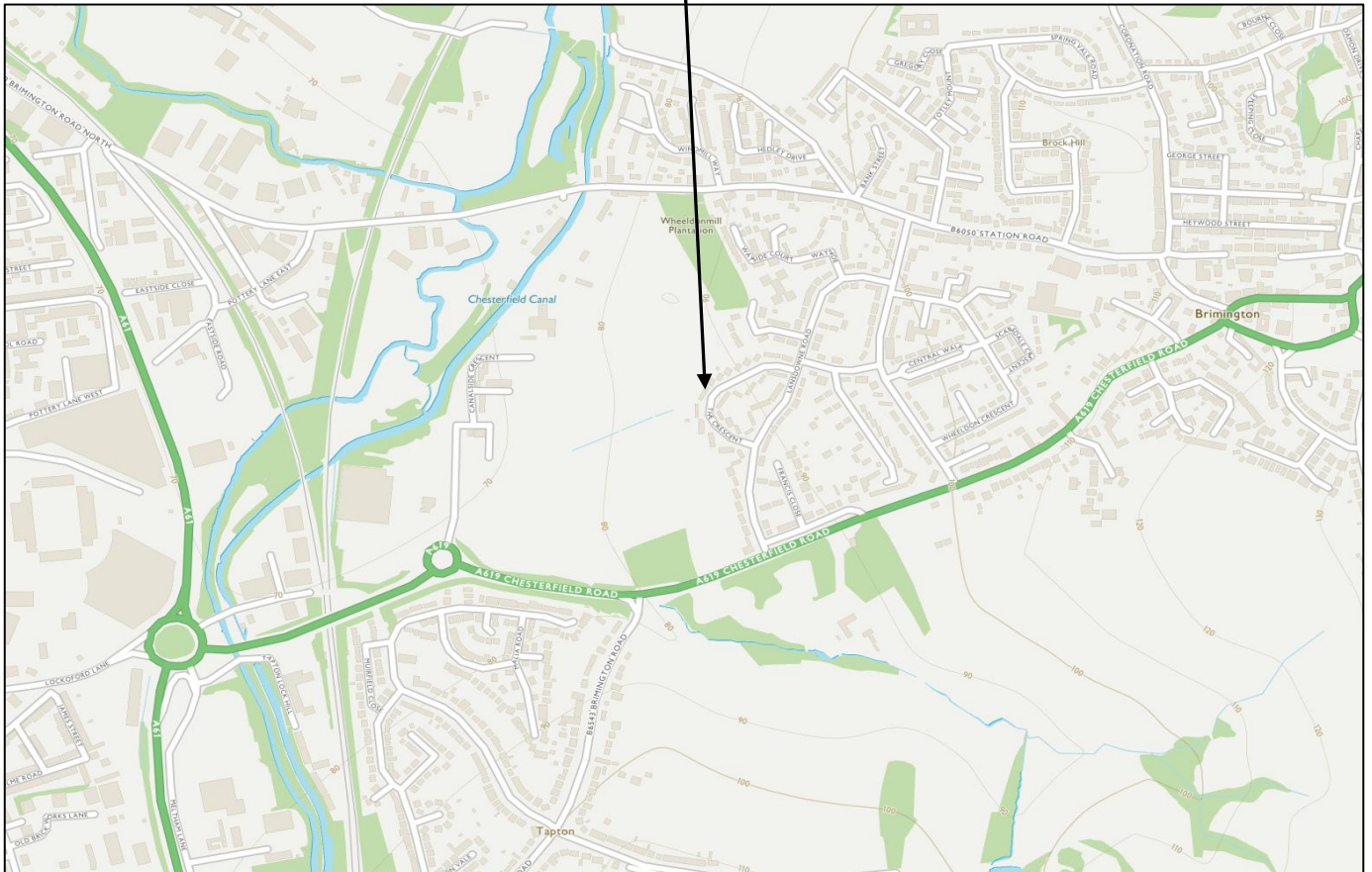
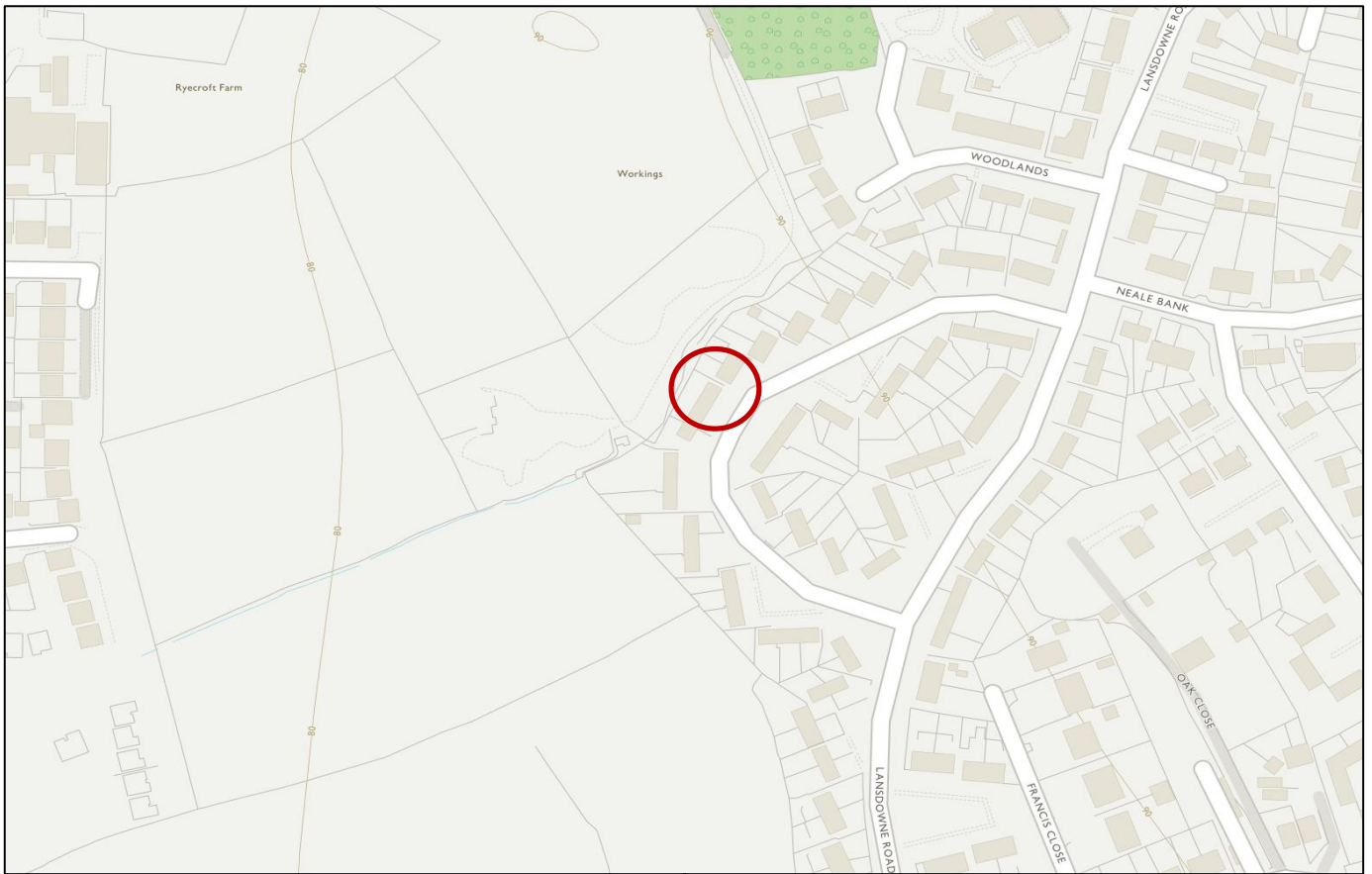
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FIGURES



SUB SURFACE

SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

General Site Location

Site
33 THE CRESCENT, BRIMINGTON, CHESTERFIELD

Date Drawn
07-May-21

Date Checked



Job No.
NE4037

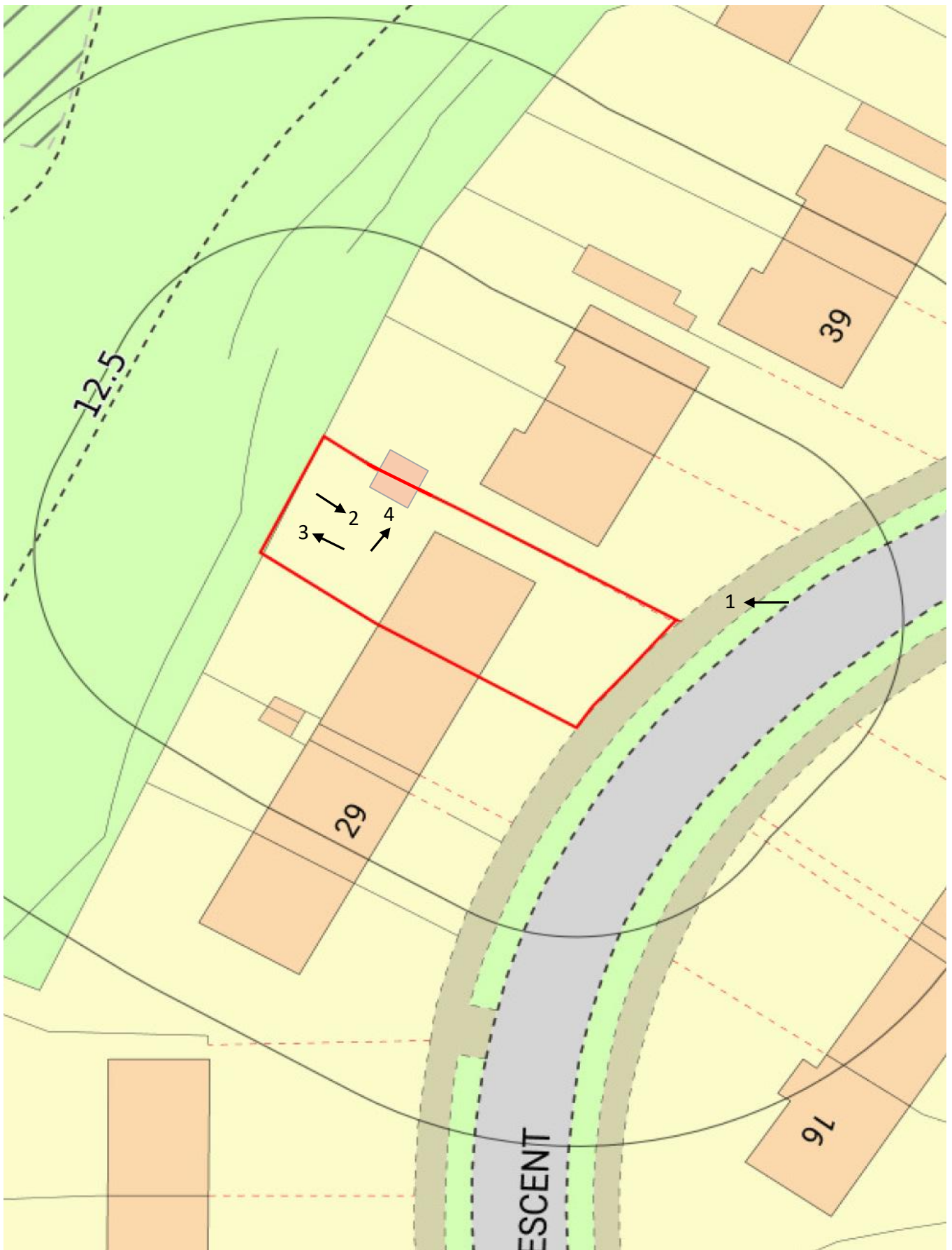
Client
CHESTERFIELD BOROUGH COUNCIL

Drawn By
TP

Checked By

Scale
-


Figure No.
1



SUB SURFACE

SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 56135 Fax (01772) 204907

Site Location/ Photograph Location Plan

Site 33 THE CRESCENT, BRIMINGTON, CHESTERFIELD	Date Drawn 07-May-21	Date Checked	Orientation 	Job No. NE4037
Client CHESTERFIELD BOROUGH COUNCIL	Drawn By TP	Checked By	Scale -	Figure No. 2