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PHASE I LAND CONTAMINATION ASSESSMENT

6 ST. GILES GARTH
BRAMHOPE
LEEDS
LS16 9BD

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Consultant in Contaminated Land

Report Ref: 236426CLRCW

Report Date: 19th May 2023

EXECUTIVE SUMMARY

Reports 4 Planning have been instructed by Mr Adam Mirza to undertake a Phase I Land Contamination Assessment of a property located at No.6 Giles Garth, Bramhope, Leeds.

It is understood that the client is progressing a planning application for a replacement residential development of the site. The site is currently occupied by a single dormer bungalow with proposals for its demolition and rebuild with a new two-storey dwelling. In order for the planning application to be further considered, it is necessary for a Phase I Land Contamination Assessment to be prepared and submitted.

The available evidence shows that the subject site was undeveloped without active use until the 1920's when the land was used as an allotment. It is believed that the existing dwelling was built around 1956/57. The site has remained unchanged ever since. The dwelling consists of a dormer bungalow with gardens to the front and rear. A single garage is also located to the rear corner of the dwelling. The site has negligible to low potential for contamination given expected previous site use. A small number of potential off-site contaminative sources have been identified and considered.

The superficial geology beneath the site comprises of till with a sandstone bedrock. The sandstone is a secondary aquifer and there are no local surface water features. The setting of the site is therefore considered to be of low to moderate environmental sensitivity.

A Preliminary Environmental Risk Assessment has considered relevant sources, potential pathways and potential receptors and assessed these for the level of risk posed to the site and future site users. In accordance with current guidance this information has been used to develop a Conceptual Site Model (CSM) for the site. The Conceptual Site Model shows that there is a general negligible to low risk of contaminative to sensitive receptors and future users of the site, with no plausible pollutant linkages identified. Through the Preliminary Risk Assessment, it has been possible to conclude with the required degree of certainty at this time that the site is free from significant contamination.

As such, there is no requirement at this stage to undertake further assessment of the site in relation to possible pollutant linkages at the site.

The report is based on the assumption by the author that the Local Planning Authority will follow guidance detailed in the NPPF where for all development involving disturbance to land, the LPA would impose a Condition requiring the reporting of all other instances of contamination currently unreported found during the course of development. Should instances of previously unreported contamination be found then the submission for approval of an assessment of the risks and proposed remediation scheme will be submitted to the Local Planning Authority.

The report is supplied subject to our standard terms and conditions, and these should be read alongside the report.

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1.0 INTRODUCTION

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The purpose of this Phase I Desk study and Preliminary Risk Assessment report is to gather information on the site to develop an initial conceptual site model (CSM) and establish whether or not there are any potentially unacceptable risks posed by either current or historical use of the land or the surrounding area which may affect the proposed development. The consultant who has prepared this report is an environmental risk specialist, with over twenty years' experience in environmental liability appraisal, contaminated land assessment, brownfield development and risk assessment. The Preliminary Risk Assessment report was undertaken based on Desk Study findings utilising publicly available data, along with data sourced directly and indirectly from various providers including the Environment Agency, the Local Authority, the British Geological Survey, The Coal Authority and Ordnance Survey. This has allowed characterisation of the site with respect to its geology, hydrology, hydrogeology, history and environmental setting. The site characterisation has been undertaken in general accordance with the procedures of the new LCRM methods as released in October 2020.

Predominantly these procedures relate to 'past' contamination, and assume that legislative controls such as Pollution Prevention and Control authorisations control current potentially polluting activities. Emphasis is therefore upon historical site use and how this may affect potential future users of the site should the proposed development plans be realised. A Preliminary Environmental Risk Assessment contained in this report has considered all the relevant receptors, potential pathways, and sources of contamination and assessed these for the level of risk posed to the site and future site users.

In accordance with current guidance the information has been used to develop a Conceptual Site Model (CSM) for the site. Pollutant linkages must be present, and the consequent linkage must be established in order to determine the requirement and scope of any future geo-environmental investigation. Reasonable skill and care have been exercised in preparation of this report in accordance with the technical requirements of the brief. Notwithstanding the efforts made by the professional team in undertaking this contamination assessment, it is possible that ground conditions other than that potentially indicated by this report may exist at the site.

2.0 SOURCES OF INFORMATION

This report draws upon many different information sources in order to gain a full understanding of the environmental setting of the site. These are summarized below:

2.1 Internet Sources

- British Geological Survey Borehole Database
- Environment Agency Pollution Inventory Database
- Multi-Agency Geographic Information for the Countryside Database
- 1:50,000 British Geological Survey Digital Map of Great Britain
- https://magic.defra.gov.uk/MagicMap

2.2 Reports

- Groundsure Dataset Report, GS-V8J-3PR-ZGU-9M1;
- Groundsure Historical Maps, GS-5XL-HG1-AQE-NVA_large and small scale.

2.3 Site Observations

A site reconnaissance visit was undertaken on the 3rd May 2023. A review of site conditions have been made at the site and these are discussed further in Section 3.0, with photographic evidence provided in Appendix A.

3.0 SITE RECONNAISSANCE

3.1 Site Location

The subject site is located at No.6 St. Giles Garth, Bramhope, Leeds, LS16 9BD.

Figure 1 and 2 Site Location Plan Small and Large Scale, and Figure 3 – Site Aerial Photograph shows the location and layout of the site.

3.2 Site Access

The site is accessible from the driveway which enters the site on the north eastern corner and runs along the eastern boundary of the site. There is good access on foot to the rear garden space.

3.3 Site Description

The plot comprises of a rectangular parcel of land, which extends to approximately 0.16 hectares in area. The site is located within an existing residential area.

The site is elevated to the roadway which passes the house to the north. The driveway which enters the site rises reasonably steeply into the site. The plot is characterised by a single dormer bungalow which is located slightly in the northern section of the site. The front space of the plot is given over to an established garden which is mostly grassed but contains other shrubbery. Some hardstanding is located near to the house.

The driveway passes the side of the house which is noted to be surfaced in concrete hardstanding. The concrete is cracked in various places, but has no evidence of staining.

On the southeastern corner of the site there is a single garage building which is empty except for a couple of waste disposal bins. The structure has a concrete floor which is noted to be in an excellent condition with no pits, or staining on the surface. The building has a flat roof which is constructed of wood with a felt top surface. To the rear of the garage there is a small old toilet block. There is some evidence that historically a small glass lean to was present for the growing of potted plants.

The rear garden is large and consists of well maintained grass. Large established trees, including conifers, bound the western side of the site.

A selection of photographs of the site are contained in Appendix A.

3.3.1 Site Topography

The site raised to the roadway to the north, by approximately 3-4m. The rear garden space is sloping only slightly in comparison.

3.3.2 Structures

The dormer bungalow property has been built traditionally from stone with a pitched tiled roof. The building appears to be in a good structural condition.

3.3.3 Surfacing

The entire external and internal (garage only) surfacing has been inspected and no staining of other evidence of contamination has been noted.

3.3.4 Vegetation

The site is well established and there are good examples of grassed lawns, flower beds, and established large trees to the rear. All appears to be healthy and not under distress. No evidence of invasive species was noted.

3.3.5 Underground and Aboveground Fuel Storage Tanks

No evidence of current or historical underground or aboveground storage tanks was observed.

3.3.6 Raw Material and Chemical Use and Storage

No evidence of significant volumes of potentially harmful chemical storage was observed at the site.

3.3.7 Solid Wastes

There are no significant solid wastes at the site.

3.3.8 Hazardous and Industrial Waste

No hazardous or industrial waste has been observed at the site.

3.3.9 Air Emissions

No evidence of significant air emission sources was observed.

3.3.10 Wastewater and stormwater

There is expected to be existing surface and foul drainage connected to the network on site.

3.3.11 Asbestos Containing Materials (ACM)

No evidence of any asbestos was noted during the visual site walkover. No specific asbestos surface was carried out on the bungalow as part of this assessment.

3.3.12 Polychlorinated Biphenyls (PCBs)

PCBs were historically used as a dielectric filler liquid in some types of transformers, switchgear, capacitors and the starter units in some fluorescent lights and fractional horsepower motors. PCBs are known to harm the environment and can damage health. No such potential sources were observed at the site.

3.3.13 Ionising Radiation

No evidence of ionising radiation sources was made at the site.

3.3.14 Spills and Releases

No evidence of any spills or releases have been observed at the site.

3.4 Surrounding Land Use

Surrounding land use is primarily residential in nature. There are no commercial or industrial land use within the vicinity of the site.

4.0 CURRENT LAND USES

4.1 Current Site Use

The site consists of a parcel of residential land which contains a single dormer bungalow with gardens to the front and rear. A single garage is located on site.

4.2 Potentially Contaminative Current Surrounding Land Use

The following records are available of potentially contaminative sites within 250m of the site:

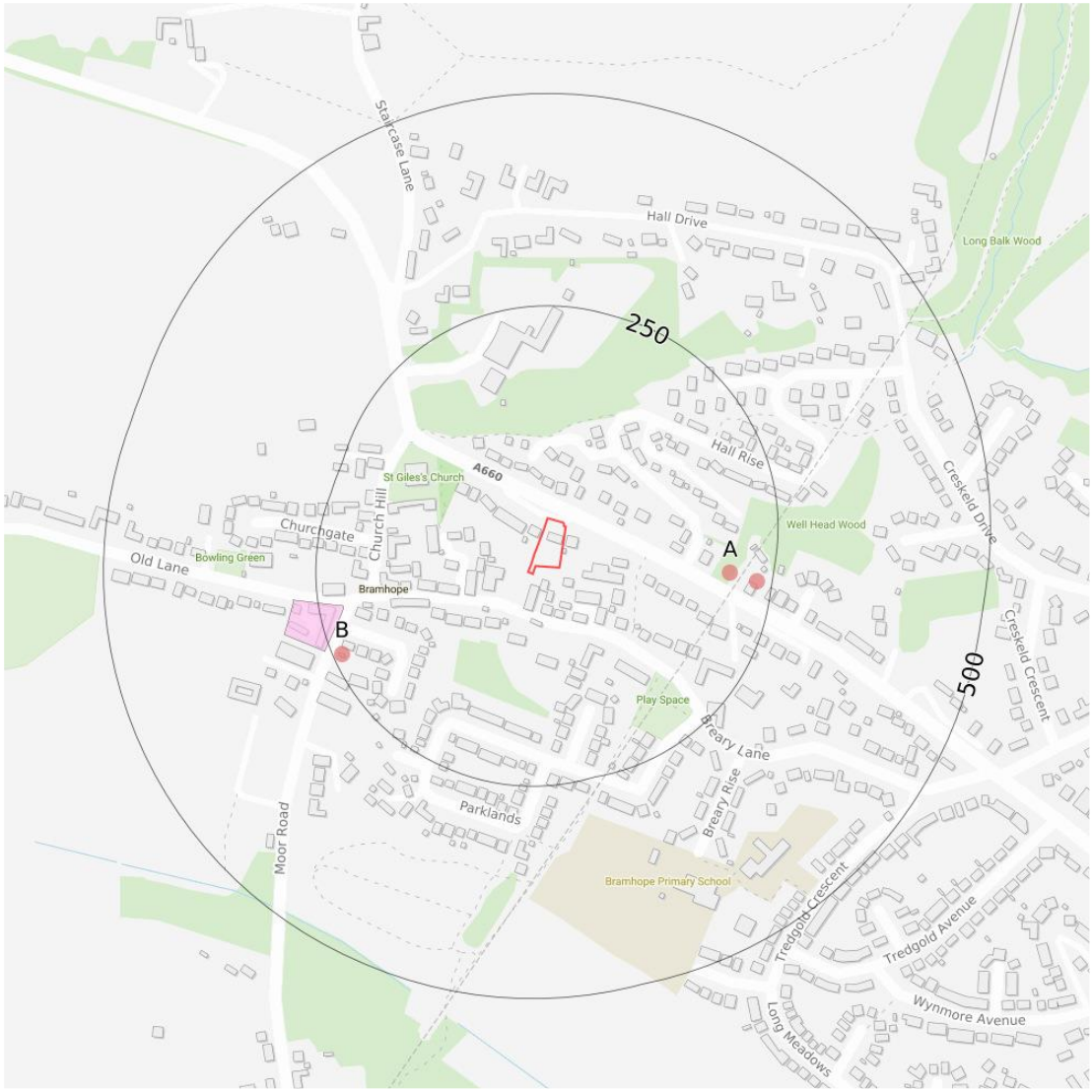


Table 1: Recent Industrial Land Use

Location	Company	Activity	Category
200m east	Electricity Sub Station	Electrical Feature	Infrastructure
232m east	Shaft	Unspecified Quarries	Extraction
239m SW	Electricity Sub Station	Electrical Feature	Infrastructure

4.3 Petrol and Fuel Sites

There are no records of any petrol and/or fuel sites within 250m of the site.

Table 2: Sites Determined as Contaminated Land

Location	Description	Site Name	Category
222m west	Former Garage	Electrical Feature	Potentially Contaminated

4.6 Control of Major Accident Hazards

There are no records of any current Control of Major Accident Hazards (COMAH) sites at or within 500m of the site.

4.7 Regulated Explosive Sites

There are no records of any sites registered and licensed by the HSE under the Manufacture and Storage of Explosives Regulations 2005 within 500m of the site.

4.8 Hazardous Substance Storage/Usage Sites

There are no records of any sites with consents issued under the Planning (Hazardous Substances) Regulations 2015 at or within 500m of the subject site.

4.9 Historical Licensed Industrial Activities

There are no records of operators holding historical Integrated Pollution Control (IPC) permits within 500m of the site.

4.10 Licensed Industrial Activities

There are no records of Part A(1) installations regulated under the Environmental Permitting (England and Wales)Regulations 2016 within 500m of the site.

4.11 Licensed Pollutant Release

There are no records of licensed pollutant releases from processes authorised under Part A(2)/B within a 500m radius of the site.

4.12 Radioactive Substance Authorisations

There are no recorded permits relating to the storage, use, accumulation or disposal of radioactive substances within 500m of the site.

5.0 HISTORICAL LAND USES

5.1 Site Observational Evidence

A walkover survey of the site has been completed and no evidence of previous development has been recorded other than current residential development.

5.2 Historical Maps Assessment

Several historical maps have been reviewed for evidence which may indicate potentially contaminative land uses for either the site or surrounding land within at least 500m of the site. Copies of the historical maps are provided in Appendix C and are discussed below:

Table 3: Historical Land Use

Map Year (Scale)	Site Use	Surrounding Land Use
1893 (1:2,500)	The site is undeveloped and forms part of a field	The following notable features are observed: **North:** Roadway and open field. Graveyard 255m north. **East:** Groundworks 210m east. Air shaft 190m east. Railway tunnel located 200m east. **South/West:** Fairly dense developments of residential use.
1908 (1:2,500)	The site is undeveloped and forms part of a field extending further to the west. The field appears to be part of St. Giles Church 150m to the west.	No significant changes shown.
1921(1:2,500)	Site shown as allotment gardens with possible access to the south	No significant changes shown.
1957 (1:2,500)	Site shown as developed to consist of a single detached dwelling. Layout is as seen today.	The following notable changes are observed: **North:** Greater density of housing noted.
1965 (1:2,500)	No significant changes shown.	The following notable changes are observed: **East:** Electrical Sub Station located 160m east. **South:** Garage located 80m south east. **West:** Old Manor Farm located 230m west. Garage located 240m west.
1977 (1:2,500)	No significant changes shown.	No significant changes shown.

Map Year (Scale)	Site Use	Surrounding Land Use
1992-95 (1:2,500)	No significant changes shown.	No significant changes shown. Garage previous seen 75m south east no longer referenced, but building remains.
2003 (1:2,500)	No significant changes shown.	The following notable changes are observed: **South:** New residential blocks located 40m south east known as Breary. Garage no longer present.
2010 (1:10,000)	No significant changes shown.	No significant changes shown.
2023 (1:10,000)	No significant changes shown.	No significant changes shown.

5.3 Other Historical Information

It is understood from discussions with the site owner that the land has always consisted of a residential site and there is no other anecdotal evidence to suggest anything otherwise.

5.4 Potentially Contaminative Historical Uses

The following records are available of potentially contaminative historical land uses at and within 250m of the site:

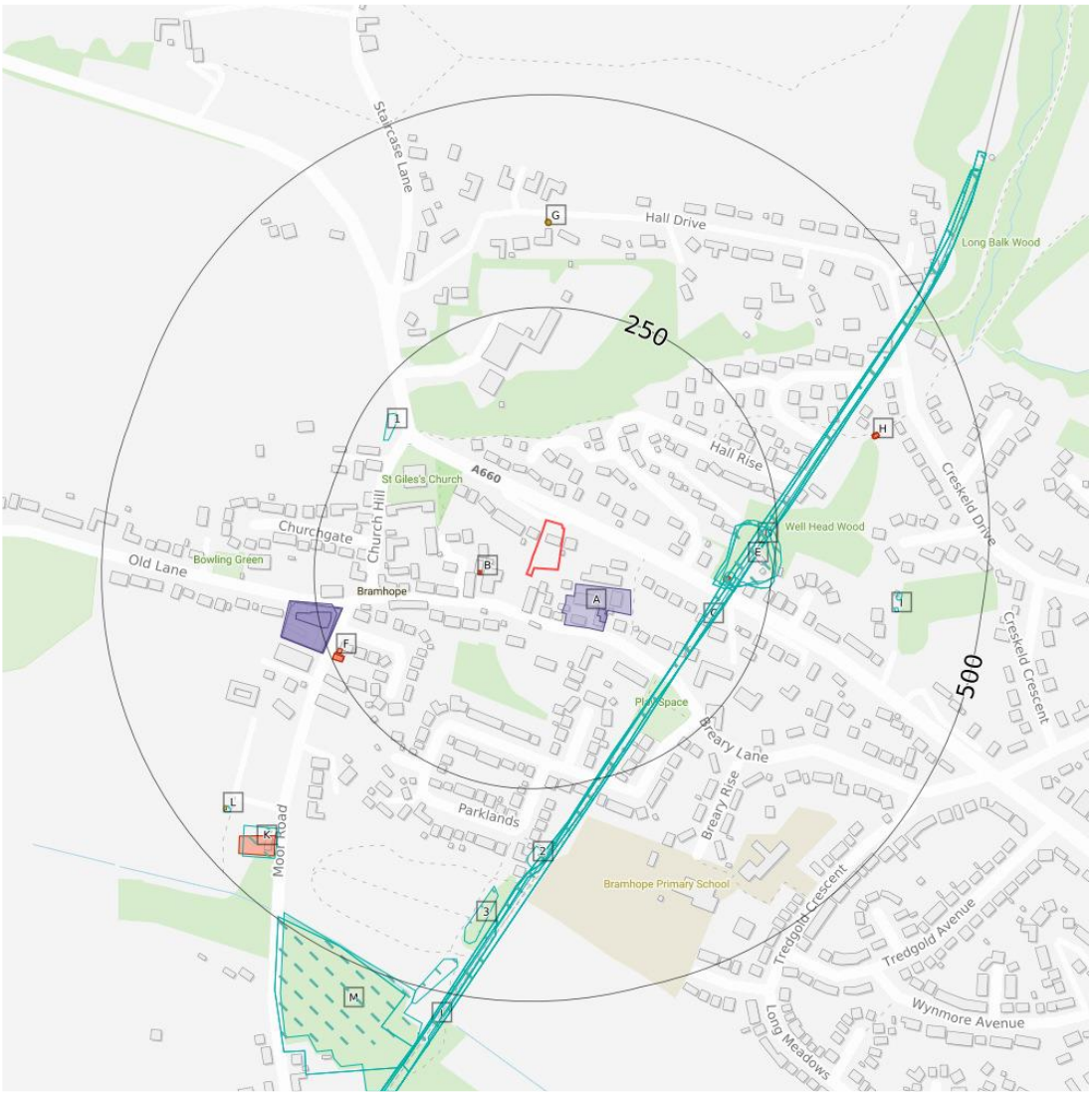


Table 4: Potentially Contaminative Historical Land Uses

Distance	Direction	Activity	Date
174m	South east	Tunnel	1938
183m	East	Unspecified Heap	1938 - 1955
194m	East	Unspecified Shaft	1891
208m	East	Unspecified Ground Workings	1967

5.4.1 Historical Tank Database

The following records are available of historical tanks within 500m of the site:

Table 5: Historical Tanks

Distance	Direction	Activity	Date
346m	North	Unspecified Tanks	1957-64
446m	South West	Sewage Tank	1934

5.4.2 Historical Energy Features Database

The following records are available of historical energy features within 250m of the site:

Table 6: Historical Energy Features

Distance	Direction	Activity	Date
54m	West	Electricity Sub Station	1964
194m	East	Electricity Sub Station	1957-1964
234m	South west	Electricity Sub Station	1992

5.4.3 Historical Petrol and Fuel Sites

There are no records of any sites with historical petrol and fuel features within 500m.

5.4.4 Historical Garages

The following records are available of historical garage features within 250m of the site:

Table 7: Historical Garage Features

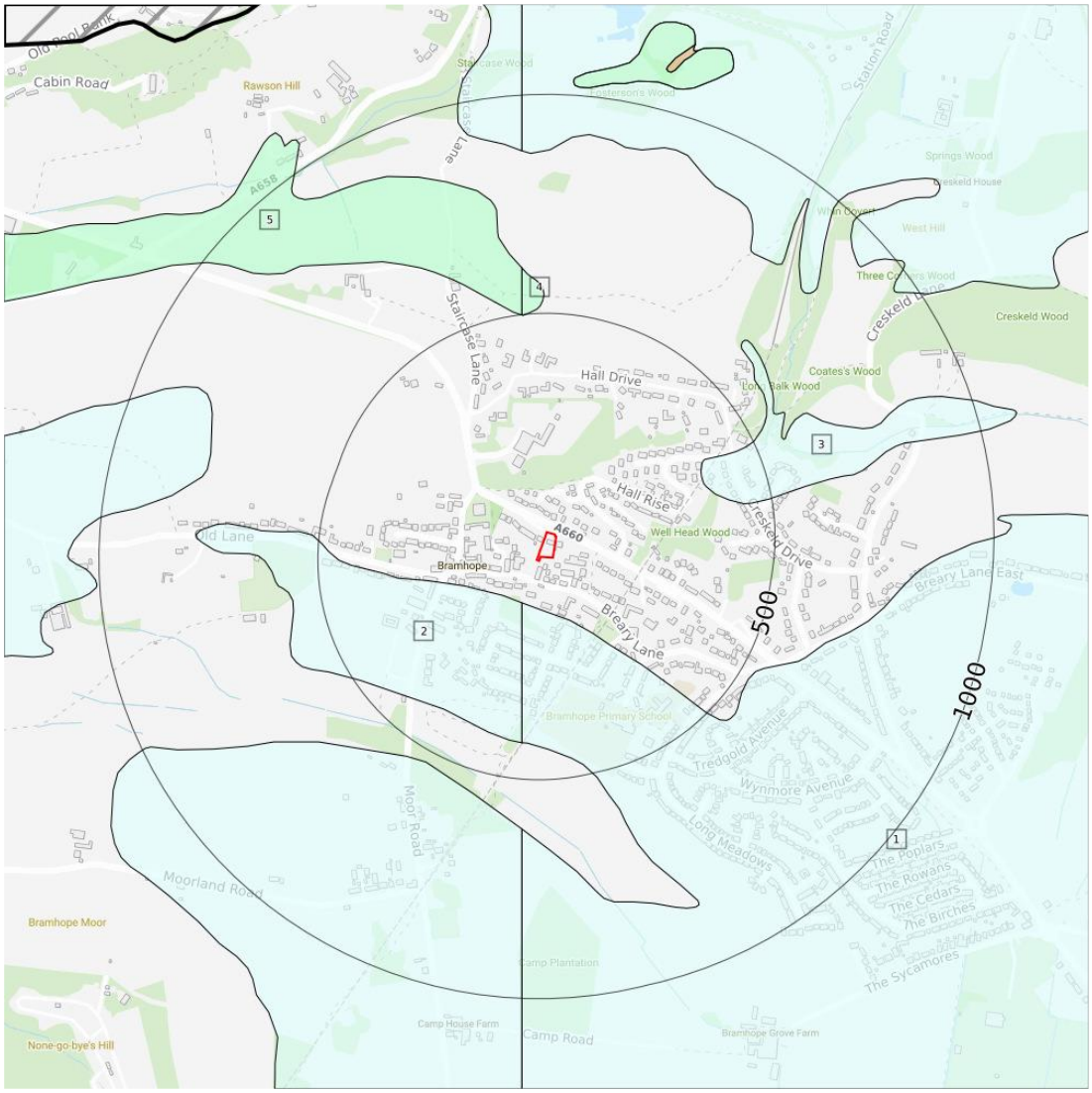
Distance	Direction	Activity	Date
27m	South east	Garage	1957 - 1992
67m	South east	Garage	
220m	West	Garage	1964

6.0 GEOLOGY

6.1 Artificial and Made Ground

The site is not located on any recorded artificial or made ground. Such ground is located 176m south east of the site.

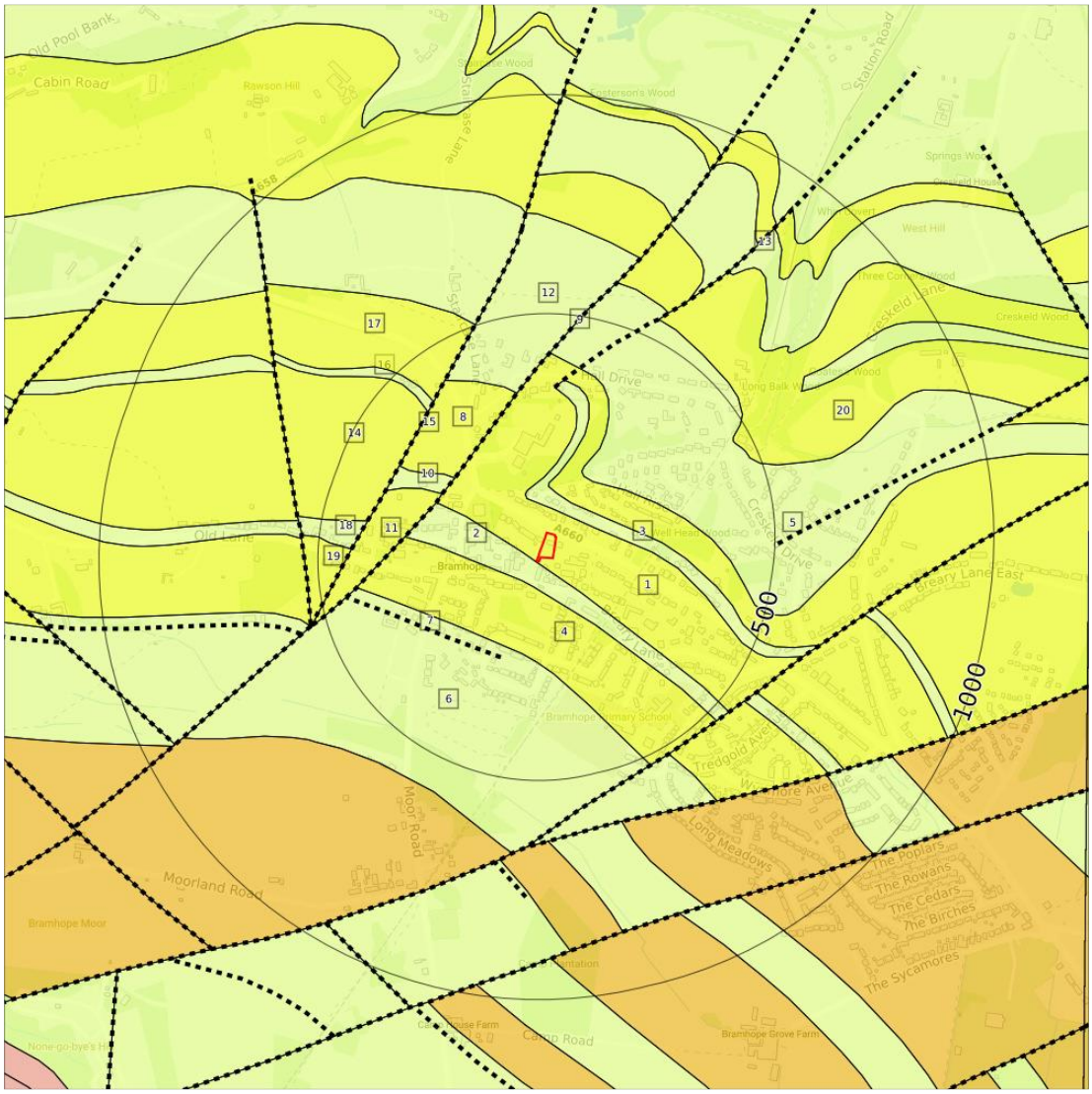
6.2 Superficial and Drift Geology



The British Geological Survey 1:50,000 Geological Map of Great Britain shows the presence of Diamicton till deposits. These deposits have no recorded permeability.

6.3 Solid Geology

The British Geological Survey 1:50,000 Geological Map of Great Britain shows that the solid geology beneath the site comprises the Doubler Stones Sandstone formation. These strata are of medium to high permeability.



6.4 Coal Mining

The site is not located within a coal mining area.

There are no reported natural cavities within 500m of the site.

There are 26 records of any underground workings within 500m of the site, the nearest being a tunnel (railway) located 174m south east of the site.

There are no active records of Britpits within 500m of the site.

There are 9no. records of surface ground workings within 250m of the site. The nearest of these is 183m east of the site, where an unspecified heap is recorded.

6.5 Non-coal Mining

There is a record of a mineral vein located on the site of which sporadic underground mining of restricted extent may have occurred.

There are no records of underground workings within 1km of the site.

6.6 Brine Affected Areas

There are no brine affected areas within the vicinity of the site.

6.7 Shrink Swell

The shrink swell hazard associated with the soils beneath the site has been rated by the BGS as Negligible.

6.8 Landslip/Slide

There are no records of any landslips on or near the site.

6.9 Soluble Rocks

There is a negligible risk from soluble rocks at the site. Soluble rocks are either not thought to be present within the ground or not prone to dissolution.

6.10 Compressible Ground

The compressible ground hazard for the site has been rated by the BGS as negligible. Compressible strata are not thought to occur.

6.11 Collapsible Rocks

The maximum collapsible rocks hazard for the site has been rated by the BGS as very low.

6.12 Running Sands

There is a negligible risk associated with running sand issues beneath the site. There are no identified constraints on the site's use due to running sand conditions, regardless of the height of the water table.

6.13 Radon

The Indicative Atlas of Radon in England and Wales as prepared by both the Health Protection Agency and the British Geological Survey shows that the site is not located in a radon areas as less than 1% of properties are above the Radon Action Level. No radon protection measures are required.

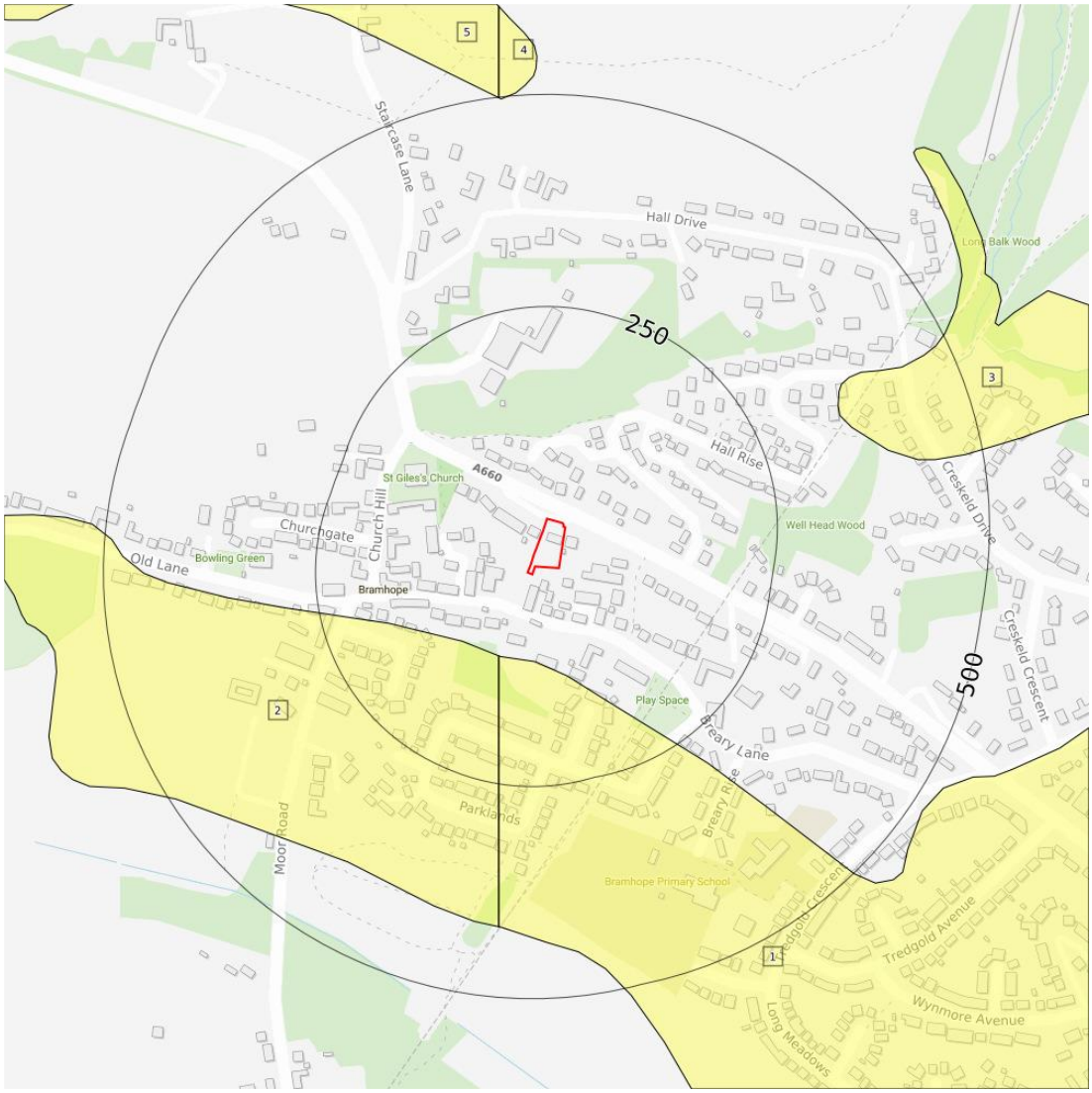
6.14 BGS Estimated Urban Soil Chemistry

It is recorded by the BGS that on site there is the potential for the following natural contaminants to be present: arsenic 15mg/kg, lead 100mg/kg, cadmium 1.8mg/kg, chromium 60-90mg/kg, nickel 15mg/kg.

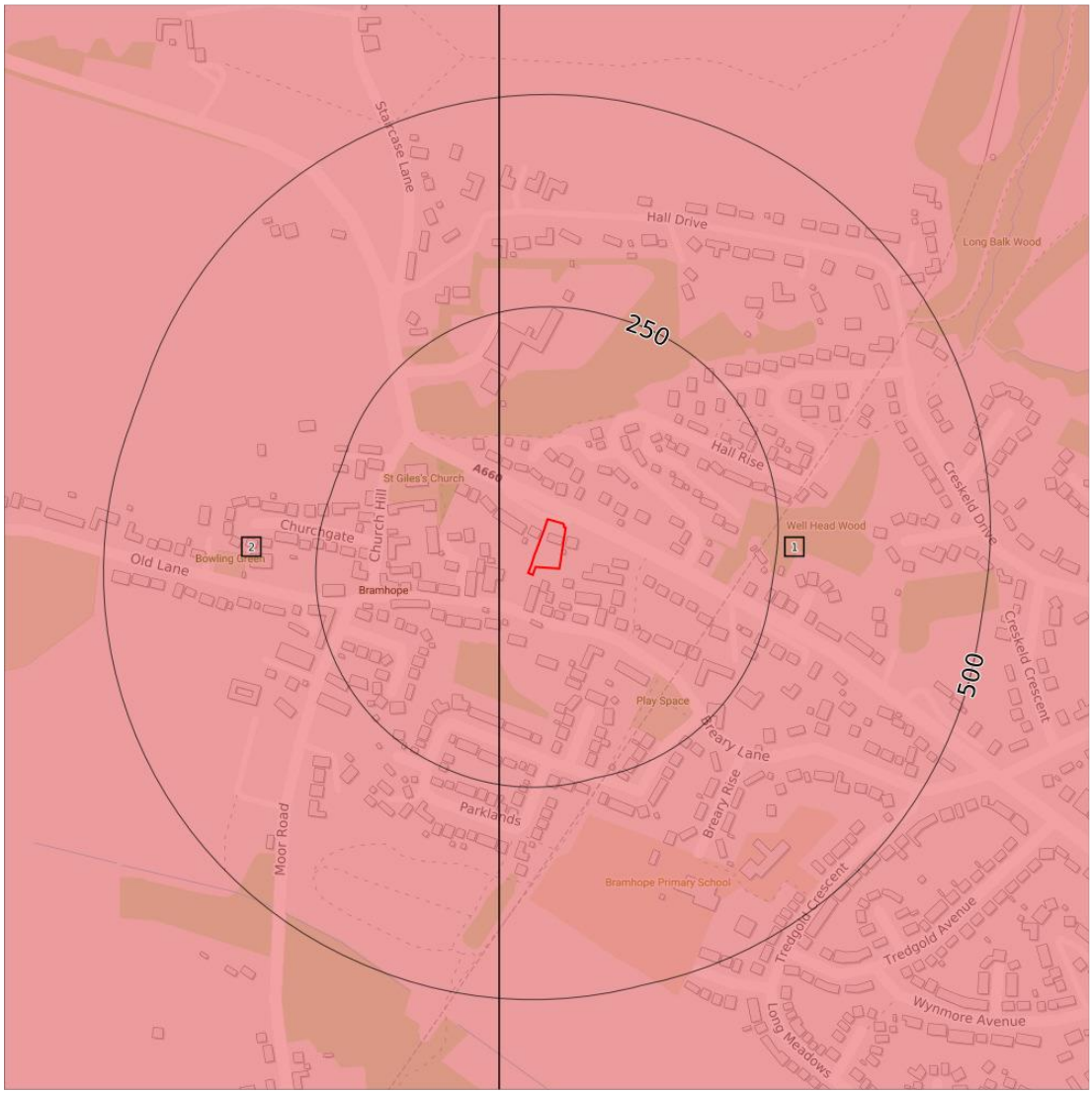
7.0 HYDROGEOLOGY

7.1 Groundwater Vulnerability and Soil Classification

There are no records of any superficial aquifers beneath the site. The nearest is locate 125m south west which is classified as a secondary aquifer with undifferentiated layers. These strata have been previously recorded as minor and non-aquifers. These soils have a medium vulnerability to pollution.



The underlying chalk bedrock is classified as a secondary aquifer which have permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases form an important source of base flow to rivers. The bedrock aquifer has a medium vulnerability classification through well connected fractures.



7.2 Groundwater Abstraction Licences

There are reportedly no current licensed groundwater abstractions within 1,000m of the site.

7.3 Licensed Discharges to Controlled Waters

There are no licences in place within 250m of the site for discharges to controlled waters.

7.4 Pollutant Release to Surface Waters (Red List)

There are no records of any licenses issued to sites at or within 500m of the site for a pollutant release to a surface water (Red List).

7.5 Pollutant Release to a Public Sewer

There are no records of any pollutant releases to a public sewer within 500m of the site.

7.6 List 1 and List 2 Dangerous Substances

There are no records of any discharges of substances as identified on Lists 1 and 2 of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015 within 500m of the site.

7.7 Pollution Incidents

There have been no recorded and substantiated pollution incidents within 250m of the subject site within the last 10 years.

7.8 Pollution Inventory Substances

There are no records of any pollution inventory (substances) including reporting on annual emission of certain regulated substances to air, controlled waters and land at or within 500m of the site.

7.9 Pollution Inventory Waste Transfers

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. There are no records of such transfers within 500m of the site.

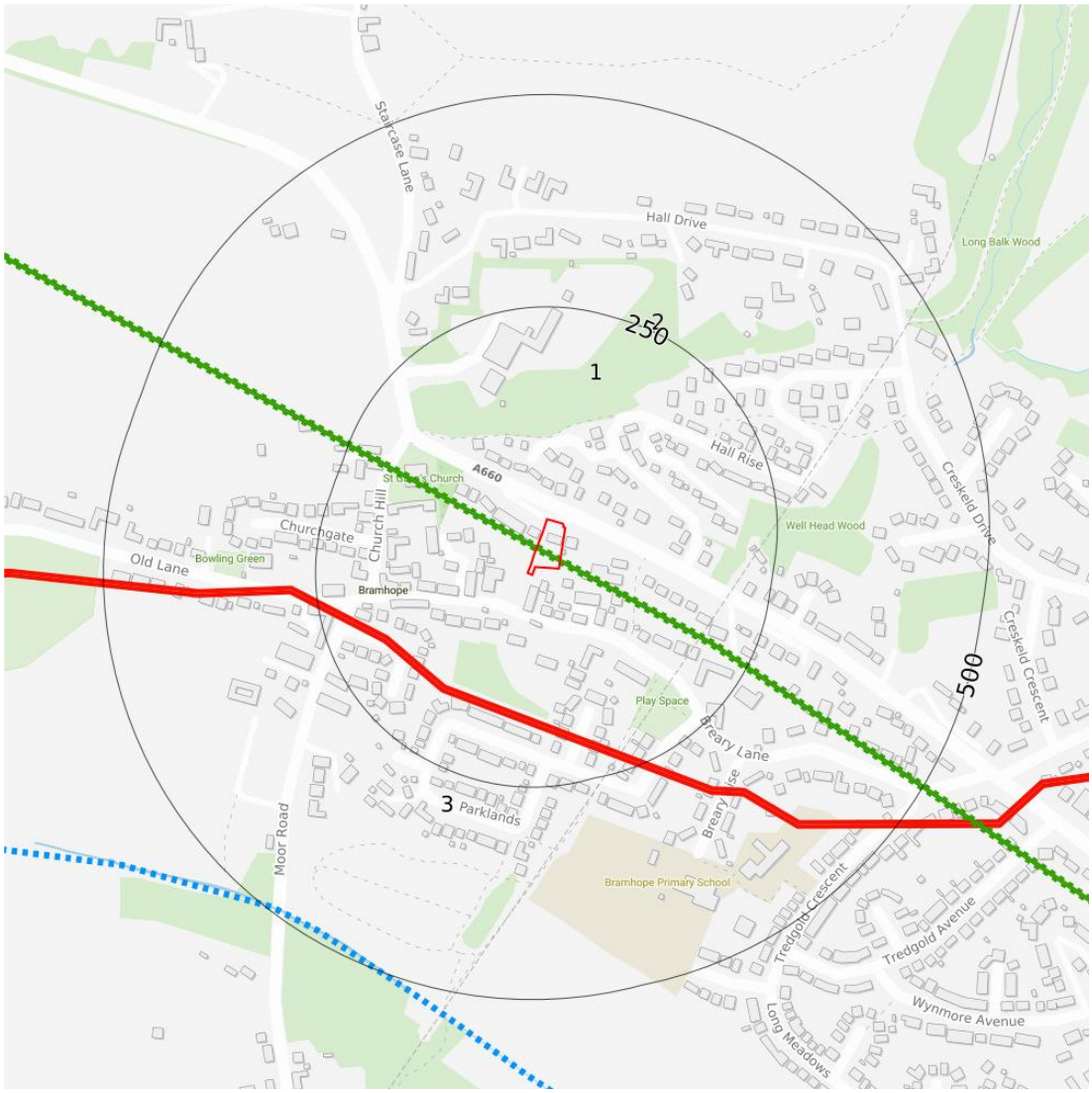
7.10 Pollution Inventory Radioactive Waste

There are no records of any pollution inventory (radioactive wastes) including reporting on annual releases of radioactive substances from a site within 500m of the site.

7.11 Source Protection Zones

The site is not located within a Source Protection Zone.

8.0 HYDROLOGY



8.1 Surface Waters

There are no surface water features located within 250m of the site.

8.2 Surface Water Abstraction Licenses

There are reportedly no active licensed surface water abstractions within 1,000m of the site.

8.3 Potable Water Abstraction Licenses

There are reportedly no licensed potable water abstractions recorded within 2,000m of the site.

8.4 Flooding

8.4.1 Risk of Flooding from Rivers and Seas (RoFRaS)

The subject site is located on ground which is considered to have a low risk of flooding.

8.4.2 Historical Flood Events

There are no records of historical flood events in the vicinity of the subject site.

8.4.3 River and Coastal Flooding (Flood Zones)

The Environment Agency Flood map (from rivers and the sea) shows that the site is not at risk of flooding.

8.4.4 Surface Water Flooding

There is a negligible risk of flooding at the site.

8.4.5 Groundwater Flooding

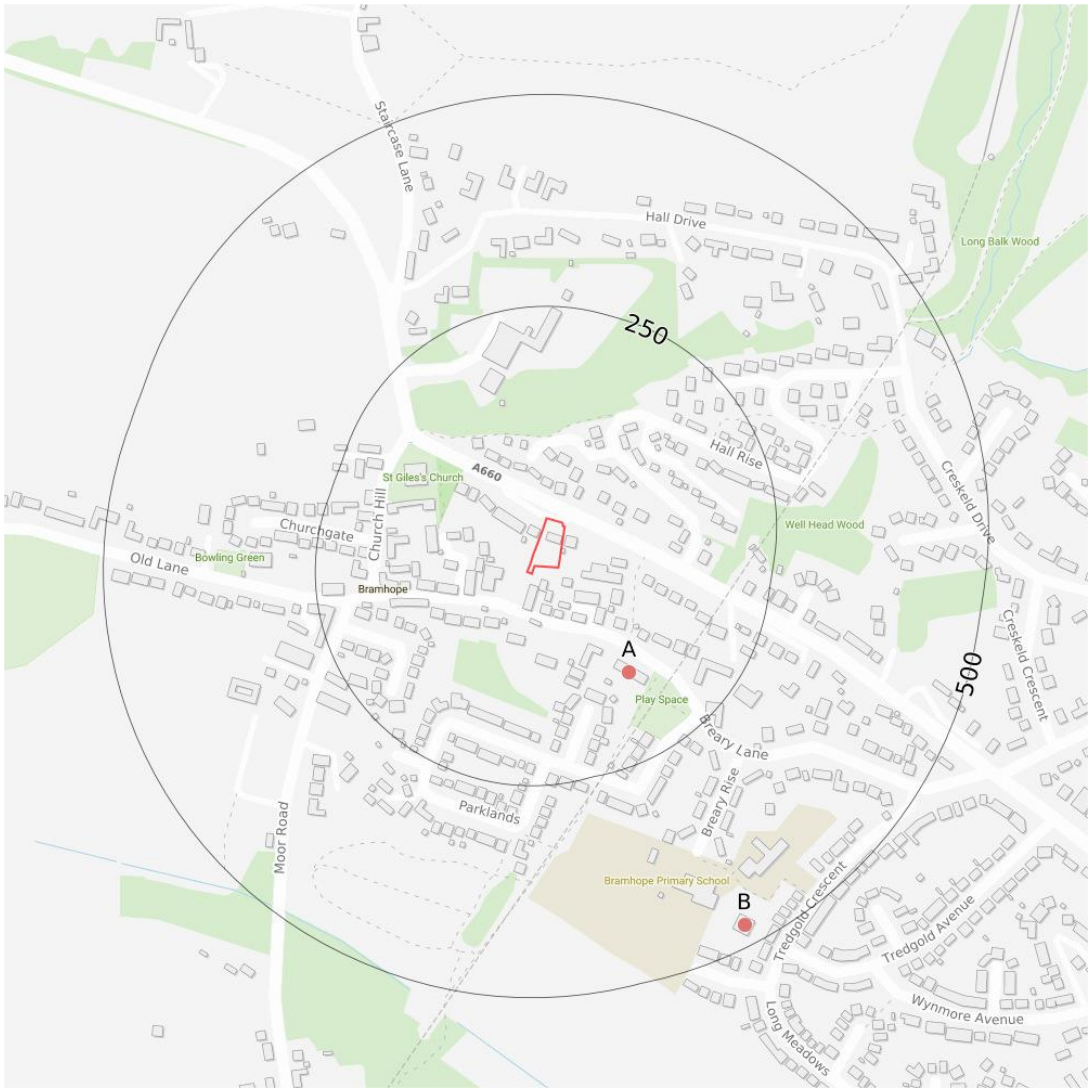
There is reported to be a negligible risk of groundwater flooding across the site.

8.4.6 Flood Defences

The site is not located in an area that benefits from flood defences, that are owned, managed or inspected by the Environment Agency.

There are no areas which are shown to benefit from flood storage within 250m of the site.

9.0 WASTE



9.1 Landfill Sites

There are no records of any active or recent landfill sites subject to Environment Agency regulation within 500m of the site.

The British Geological Survey hold no records of any historical landfill sites within 500m of the site.

The Local Authority hold no records of any historical landfill sites within 500m of the site.

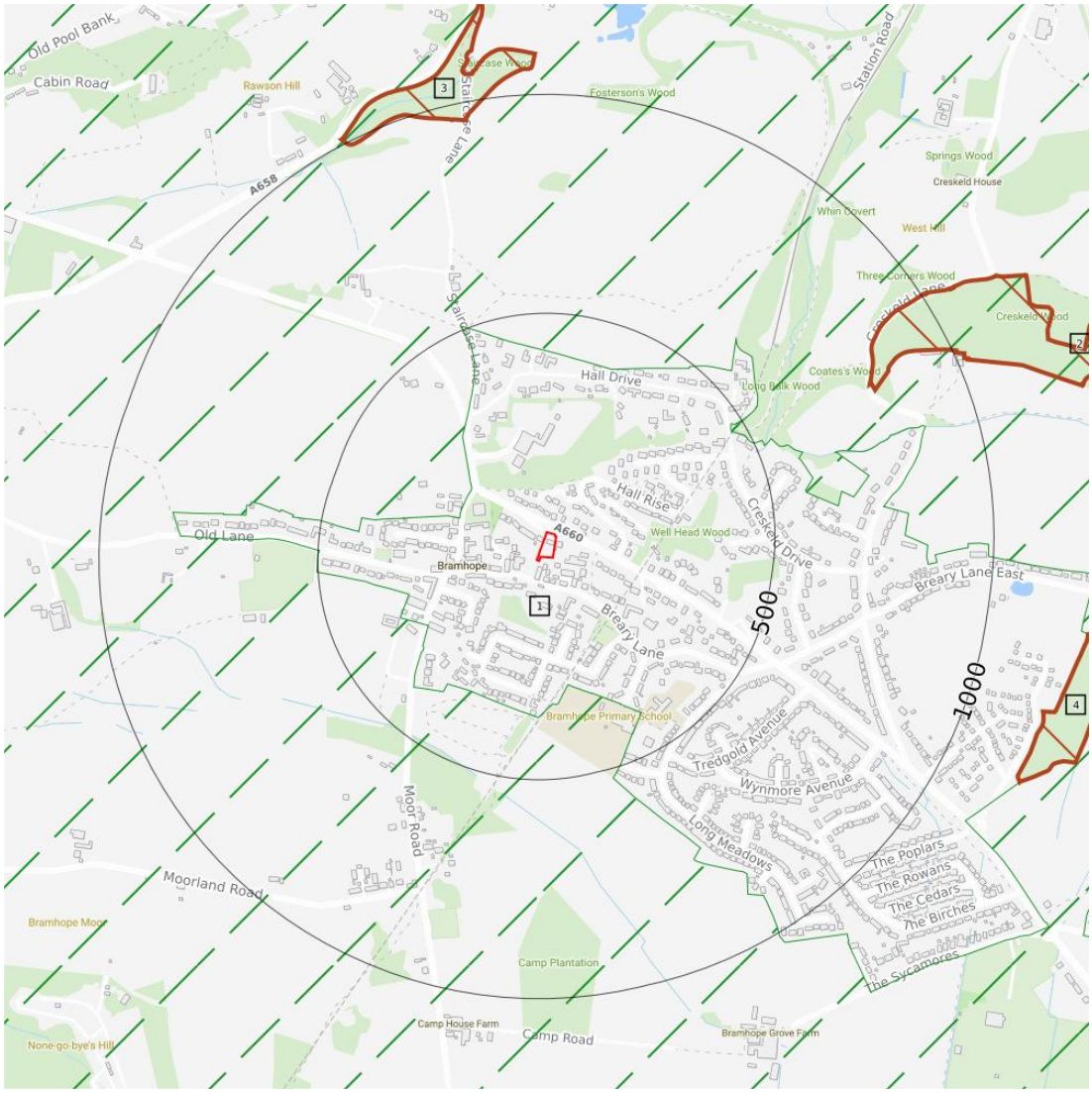
The Environment Agency hold no records of any historical landfill sites within 500m of the site.

9.2 Waste Sites

The Local Authority hold no records of any current or historical waste sites within 500m of the site.

Sites located 149m south east and 476m south east of the site has waste exception licences in place.

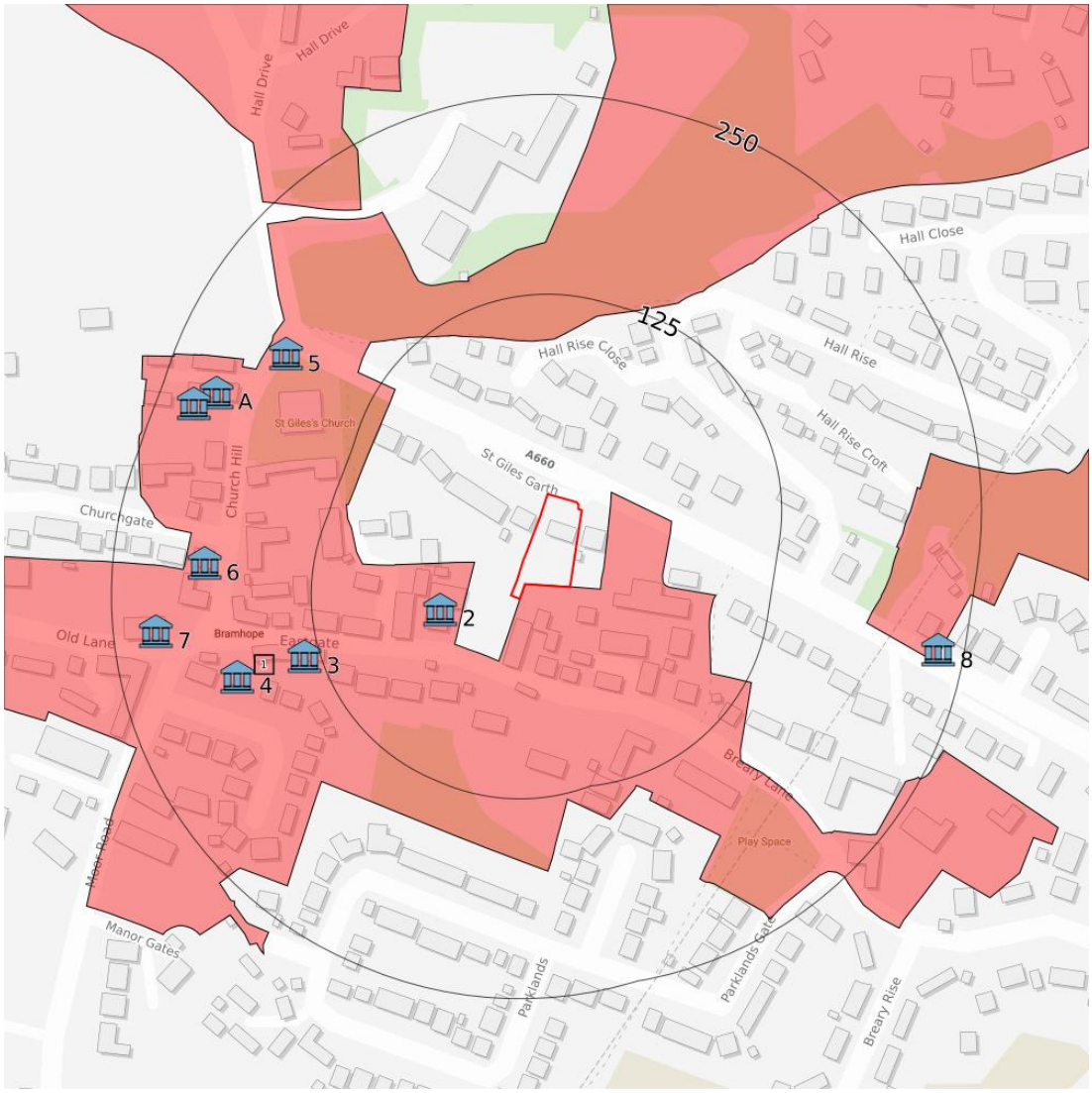
10.0 DESIGNATED ENVIRONMENTALLY SENSITIVE SITES



10.1 Designated Ancient Woodland

An unknown wood (797m NE), Bramhope Wood (959m N) and Spring Wood (1173m SE) of the site are all designated as ancient woodland.

11.0 VISUAL AND CULTURAL DESIGNATIONS



It is understood that potentially part of the southern area of the site is located within a Conservation Area.

There are reportedly 9no. Grade II listed buildings within 250m of the site. The closest of these is the Methodist Church located 45m south west of the site.

There are no other records of any visual or cultural designations within 250m of the site.

12.0 CONCEPTUAL SITE MODEL

The model assessment has been made on the understanding that the site is used for <u>Residential Purposes</u>. Those potential pathways which may give rise to unacceptable contaminative risk under this scheme have been brought forward and form part of the Model as discussed below.

Table 7: Conceptual Site Model

Consideration of Potential Contaminants:	
On-Site Contaminants	▪ The current and historical use of the site for allotment and residential use is likely to have resulted in a negligible or low risk of contamination.
Off-Site Contaminants	▪ Off-site potential sources of contamination in the site's vicinity include electrical substations, former garage, groundworks, tunnel. ▪ The risk of these activities having impacted the subject site is mitigated by time since operational, distance from the subject site, topographical site levels and the nature of the underlying superficial soil and groundwater.

Consideration of Potential Receptors:	
Controlled Waters	▪ None.
Human Health	▪ Future residents and workers at the site. ▪ Construction workers primarily those involved in groundworks excavation. ▪ Neighbouring residents subject to disturbed vapours and dusts arising from on-site development.
Other	▪ Existing and new underground service infrastructure.

Potential Contaminant Pathways and Pollutant Linkages:	
On-Site Contaminants	▪ No obvious potential pollutant linkages have been identified.
Off-Site Contaminants	▪ No potential pollutant linkages have been identified.

Other Considerations	
Cultural	▪ Nearby conservation area ▪ Nearby listed buildings.

13.0 PRELIMINARY ENVIRONMENTAL RISK ASSESSMENT

13.1 Introduction

The current contaminated land regime is explained in Part IIA of the Environmental Protection Act 1990 and was introduced on the 1st April 2000 in England. Also, this assessment has been completed taking into account the advice and guidance contained in the NPPF and particularly paragraphs 109 (fourth and fifth bullet points) and the new LCRM regulations which is the latest guidelines issued by Government Environment Agency Published on 08/10/2020. In general, the purpose of these aspects of the legislation is to achieve the identification of contaminated land and the remediation of contaminated land to ensure the such land poses no significant risk to human health and/or the environment.

Contaminated Land is defined as:

'*any land which appears to the local authority in whose area it is situated, to be in such a condition, by reason or substances in, on, or under the land, that: significant harm is being caused or there is a significant possibility of such harm being caused; or pollution of controlled water is being or is likely to be caused.'*

For land to be classified as contaminated land a significant pollutant linkage must be identified.

Statutory Definitions	
Contaminant Source (Hazard)	A substance which is in, on or under the land and which has the potential to cause harm or cause pollution of controlled waters
Receptor (Target)	A living organism or group of organisms, an ecological system or property, controlled waters which are or could be polluted by a contaminant
Pathway (Route)	One or more routes or means which either allows the contaminant to cause significant harm to that receptor, or that there is a significant possibility of such harm being caused to the receptor, or that pollution of controlled waters is being or likely to be caused.

A Preliminary Environmental Risk Assessment involves assessing the likely probability and consequence of a Pollutant Linkage and determining a consequent level of risk.

The term 'risk' is widely used in different contexts and situation but a prescriptive definition is provided by the Guidelines for Environmental Risk Assessment and Management (DEFRA et al, 2000):

Risk is a combination of the probability, or frequency, of occurrence of a defined hazard and the magnitude of the consequence of the occurrence'.

A hazard is defined as '*a property or situation that in particular circumstance could lead to harm'*.

The risk category for a particular scenario can be assessed in terms of the consequences and probability of an occurrence which can be defined as follows (Ref: CIRIA C552):

Classification of a Consequence

Classification	Definition
Severe	1 – short term (acute) risk to human health likely to result in significant harm 2 – short term risk to controlled waters 3 – catastrophic damage to buildings / structures 4 – short term risk to an ecosystem or organism within the particular ecosystem.
Medium	1 – chromic damage to human health (long term risk) 2 – pollution of a sensitive water resource 3 – a significant change in an ecosystem or organism within the ecosystem
Mild	1 – pollution of non-sensitive water resources 2 – significant damage to buildings / structures
Minor	1 – harm (not necessarily significant) which may result in financial loss; 2 – non permanent health effects to humans (easily prevented by PPE for example) 3 – easily repairable effects of structural (building damage).

Classification of a Probability

Classification	Definition
High Likelihood	1 – there is a complete pollution linkage and an event appears very likely to occur in the short term and is inevitable in the long term 2 – evidence of harm to the receptor
Likely	1 – there is a complete pollution linkage which means that it is probable that an event will occur 2 – the event is not inevitable but possible in the short term and likely in the long term
Low Likelihood	1 – there is a complete pollution linkage and circumstance are possible under which an event could occur 2 – it is not certain that an event will occur in the long term, and it is less likely to occur in the short term
Unlikely	1 – there is a complete pollution linkage but circumstance are such that is improbable that an event would occur even in the long term.

The consequences of a risk and the probability of an event taking place can be assessed and the likely risk category can be determined as follows:

		Consequence			
Probability		***Severe***	***Medium***	***Mild***	***Minor***
	High	**Very High**	**High**	**Medium**	**Medium / Low**
	Likely	**High**	**Medium**	**Medium / Low**	**Low**
	Low	**Medium**	**Medium / Low**	**Low**	**Very Low**
	Unlikely	**Medium / Low**	**Low**	**Very Low**	**Very Low**

High Risk – there is a high probability that severe harm could risk a receptor, or there is evidence that a receptor is being harmed. The risk is realised is likely to result in liability and/or significant harm, and urgent investigation or remediation will be required.

Medium Risk - it is probable that harm will arise to a receptor. However it is relatively unlikely that such harm would be severe, or if harm does occur then the harm is likely to be

relatively mild. Investigation will be required to determine the liability, and some remedial works may be required in the long term.

Low Risk – it is possible that harm may arise to a receptor, but it is likely that the harm would be mild.

Very Low Risk – There is a very low risk of harm to the receptor. In the event of harm being realised the harm is not likely to be severe.

13.2 Potential Sources

The current and historical use of the site has been carefully assessed. Potential risks have been determined and assessed as part of this study.

The risk of contaminant source material located on site is negligible to low. The site has supported a residential dwelling in since 1956/57.

13.3 Potential Pathways

Exposure pathways link any contamination to the receptor. All or any of the following potential pathways may apply:

Future Site Workers, including Construction Workers

Oral Pathway (W-O)	Indoor /outdoor ingestion of dust
	Indoor/outdoor ingestion of soil
	Indoor/outdoor ingestion of Flora/Fauna
	Ingestion of tainted mains water
Inhalation Pathway (W-I)	Indoor/outdoor inhalation of fugitive dust
	Indoor/outdoor inhalation of soil vapour
Dermal Pathway (W-D)	Indoor/Outdoor exposure to soil through dermal contact

Future Site Users, Occasional Visitors and Neighbouring Residents including Children

Oral Pathway (O-O)	Indoor ingestion of dust (post construction)
	Outdoor ingestion of soil (post construction)
	Indoor/outdoor ingestion of Flora/Fauna
Inhalation Pathway (O-I)	Outdoor inhalation of fugitive dust
	Indoor inhalation of fugitive dust (post construction)
	Outdoor inhalation of soil vapour
	Indoor inhalation of soil vapour (post construction)
Dermal Pathway (O-D)	Outdoor exposure to soil through dermal contact
	Indoor exposure to soil dust through dermal contact

Flora (potential new on-site or off-site flora affected by potential contamination on the site, or migrating onto or from the site).

Plant Uptake (Fl-PU)	General uptake of contaminants by plants growing in the vicinity of, or on, the site

Fauna (on-site or off-site affected by potential contamination on the site, or migrating from the site)

Oral Pathway (Fa-OP)	Consumption of contaminated Flora located on site

Water Resources

Surface Water Mobilisation (SWM)	Surface water run-off from site, migrating off site Also infiltration into the site from adjacent sites.

Groundwater Mobilisation (Leaching Potential) (GWM)	Percolation and mobilisation of contaminants within the soil into waters held locally within pore space beneath the site.

13.4 Potential Receptors

The following potential receptors have been identified and considered in the risk assessment:

Human Receptors (H):	Site workers (W), Future Site Occupiers.
Water Resources (SW, GW):	Underlying secondary aquifer.
Site Infrastructure (SI):	Existing and future foundations and drainage services.
Buildings and Services (BS):	Site and neighbouring buildings.
Flora and Fauna (FL, FA)	Future, on and off-site fauna and flora.
Archaeological (A):	None
Cultural (C):	Conservation Areas and Listed Buildings.

Under the proposals, the site is to be developed for residential purposes. The Critical Human Receptor for this site will be a **female child who may reside at the site.**

13.5 Qualitative Risk Assessment

A qualitative risk assessment has been undertaken to provide an initial assessment of the potential risks caused by contaminant sources identified during this assessment to construction workers, future users of the site, building structures and the aquatic environment. **The assessment has been made on the understanding that the site is to be developed for residential purposes.**

Table 8: Risk Assessment

Hazard Identification			Hazard Assessment		Risk Estimation			Risk Evaluation
Sources	**Location**	**Potential Contaminants**	**Pathway**	**Receptor**	**Magnitude of Consequence**	**Probability Occurrence**	**Risk Appraisal**	**Rationale**
Historical and current use of the site Allotment (1920's_ and Residential	On site	Herbicides, pesticides	W-O, W-I, W-D, O-O, O-I, O-D, FLPU, FaOP SWM, GWM	H,GW,FL, FA	Minor	Low	Very Low	- Allotment use many years ago with no long lasting risk of contamination from likely herbicides / pesticides; - Long history of residential use; - Possible use of herbicides and/or pesticides; Small-scale targeted application to arable crops and subsequent degradation of applied substances expected; - No potential sources of contamination from current site use. - **No further assessment required.**
Shaft (Air to tunnel)	232m east	Made / Disturbed Ground,	W-O, W-I, W-D, O-O, O-I, O-D, FLPU, FaOP SWM, GWM	H,GW,FL, FA	Minor	Low	Very Low	- Air shaft only with no implications to mining. - No viable polluant linkages; - **No further assessment required.**
Former Garage	80m south west, 222m west	Organic hydrocarbons	W-O, W-I, W-D, O-O, O-I, O-D, FLPU, FaOP SWM, GWM	H,GW,FL, FA	Mild	Low	Low	- Historical small service garage - Possible risk of limited on-site organic contamination from oils etc - Site now redeveloped for housing with presumed clean-up instigated if applicable; - No continuing source - **No further assessment required.**
Railway Tunnel / Groundworks	200m east	Made Ground,	W-O, W-I, W-D, O-O, O-I, O-D, FLPU, FaOP SWM, GWM	H,GW,FL, FA	Minor	Low	Very Low	- Made Ground at depth; - Located below level of site at distance; - No viable pathway of contamination; - **No further assessment required.**
Electrical Substations	Various – nearest 54m west	Made Ground, possibly oils	W-O, W-I, W-D, O-O, O-I, O-D, FLPU, FaOP SWM, GWM	H,GW,FL, FA	Mild	Likely	Very Low	- Active and managed facility with low risk of contaminant source; - None observed at nearest stations not located upgradient of site. - **No further assessment required.**

14.0 CONCLUSIONS AND RECOMMENDATIONS

14.1 Conclusions

A Phase I Land Contamination Assessment has been completed to determine the potential risks from contamination on land subject to redevelopment consisting of the build of new replacement domestic dwelling. Following review of geo-environmental data for the site and a site reconnaissance, a full Preliminary Risk Assessment has been undertaken to assess potentially contaminative sources and applicable pollutant pathways which may give rise to adverse impact to future users of the site.

The available evidence shows that the subject site was undeveloped without active use until the 1920's when the land was used as an allotment. It is believed that the existing dwelling was built around 1956/57. The site has remained unchanged ever since. The dwelling consists of a dormer bungalow with gardens to the front and rear. A single garage is also located to the rear corner of the dwelling. The site has negligible to low potential for contamination given expected previous site use. A small number of potential off-site contaminative sources have been identified and considered.

Visual inspection of the site surface across the site revealed no obvious areas of made ground across the site. No evidence of any historical infilling activity or other visual evidence of contamination was noted.

Potential small-scale off-site sources of contamination have been identified. However, these have been subject to a risk assessment and given the site setting, local geology and specific nature of these sites, are generally considered to be a negligible to low risk.

Following completion of a site walkover and review of site-specific desk study information, a conceptual model of the site has been developed. This demonstrates the absence of significant potential pollutant linkages and, through the risk assessment, it has been possible to conclude with the required degree of certainty at this time that the site is free from significant contamination. Therefore no further work is required in relation to possible contaminants on site.

The report is based on the assumption by the author that the Local Planning Authority will follow guidance detailed in the NPPF where for all development involving disturbance to land, the LPA would impose a Condition requiring the reporting of all other instances of contamination currently unreported found during the course of development. Should instances of previously unreported contamination be found then the submission for approval of an assessment of the risks and proposed remediation scheme will be submitted to the Local Planning Authority.

The report is supplied subject to our standard terms and conditions, and these should be read alongside the report.

FIGURES

FIGURE 1

SITE LOCATION PLAN
SMALL SCALE

6 ST. GILES GARTH
BRAMHOPE
LEEDS
LS16 9BD

FIGURE 2

SITE LOCATION PLAN
LARGE SCALE

6 ST. GILES GARTH
BRAMHOPE
LEEDS
LS16 9BD

FIGURE 3

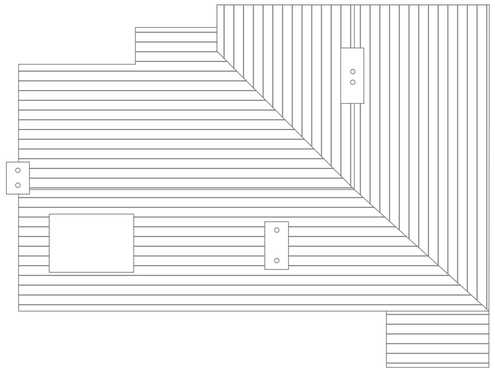
SITE AERIAL PHOTOGRAPH

6 ST. GILES GARTH
BRAMHOPE
LEEDS
LS16 9BD

FIGURE 4

EXISTING SITE PLAN

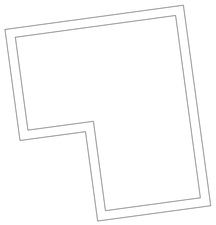
6 ST. GILES GARTH
BRAMHOPE
LEEDS
LS16 9BD

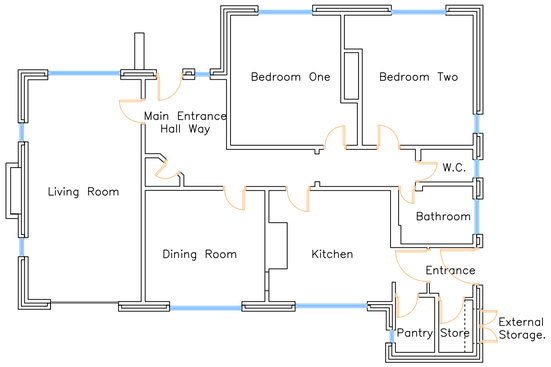


EXISTING ROOF PLAN
SCALE 1:100

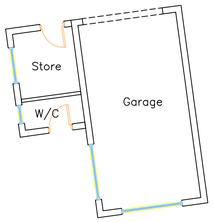
EXISTING SOUTH WEST ELEVATION
SCALE 1:100

EXISTING NORTH WEST ELEVATION
SCALE 1:100

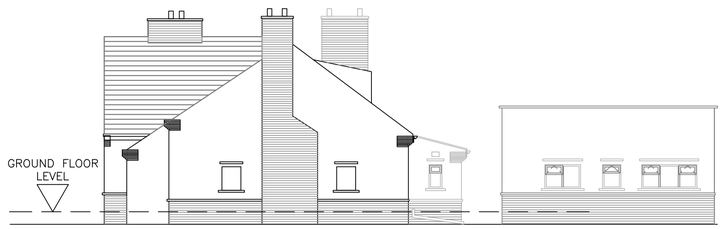




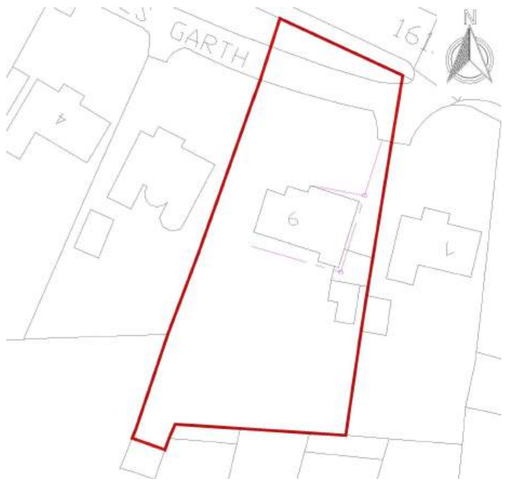
EXISTING GROUND FLOOR PLAN
SCALE 1:100



EXISTING NORTH EAST ELEVATION
SCALE 1:100



EXISTING SOUTH EAST ELEVATION
SCALE 1:100



EXISTING SITE DRAINAGE
SCALE 1:500

EXISTING SITE LOCATION PLAN
SCALE 1:1250

notes

rev	date	by	app.	description
A	04/23	AM		External storage to the underside of the property added to the drawing. Site boundary line thickness reduced.

Consultant:
A.M.

Project Title:
No. 6 SAINT GILES GARTH
BRAMHOPE, LEEDS, LS16 9BD.

Drawing Title
EXISTING PLANS AND ELEVATIONS
-

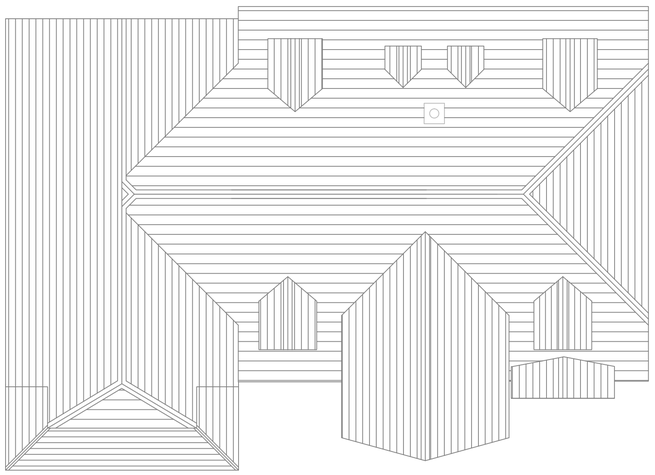
Drawn	Checked by	Scale
AM	CHKD	VARIABLE
Level	Plan	Date
	PLAN	13.10.2022
Project No.	Drawing No.	Revision
BH-E-001	D001	A

DATE PLOTTED : DPL
DWG FILNAME : DWN
SAVED VIEW : SVN
XREFERENCES : XREF

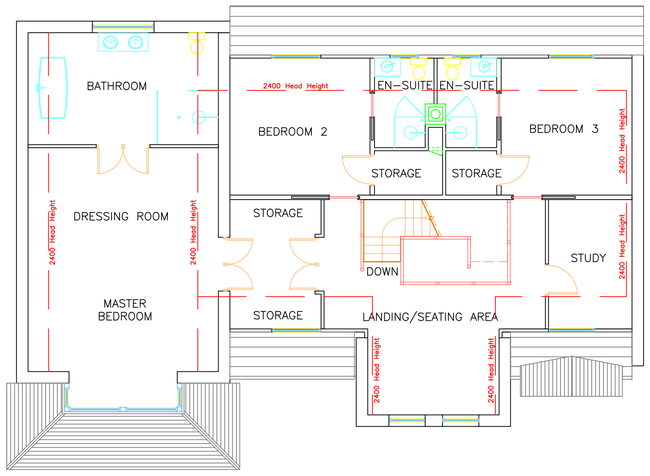
FIGURE 5

PROPOSED SITE PLAN

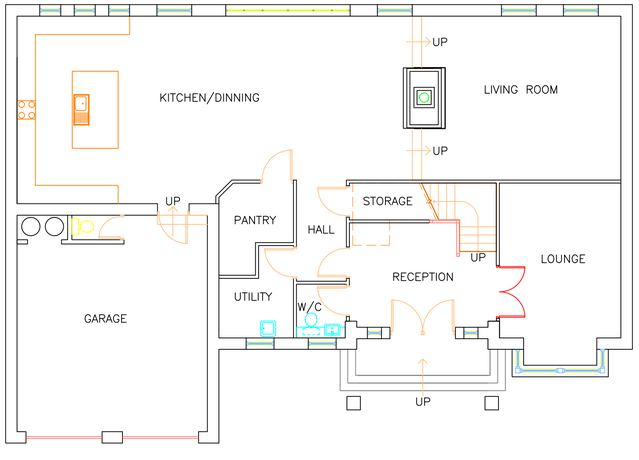
6 ST. GILES GARTH
BRAMHOPE
LEEDS
LS16 9BD



PROPOSED ROOF PLAN
SCALE 1:100

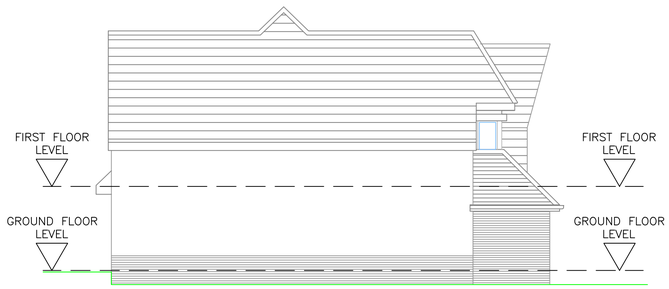


PROPOSED FIRST FLOOR PLAN
SCALE 1:100



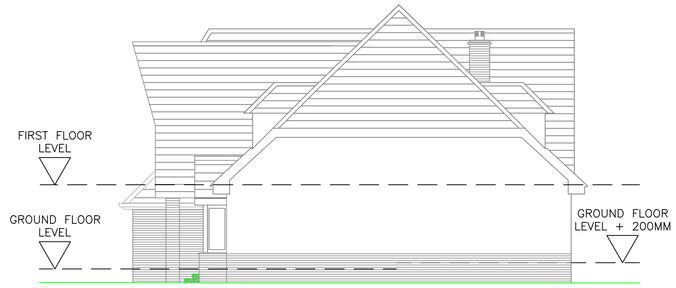
PROPOSED GROUND FLOOR PLAN
SCALE 1:100

PROPOSED NORTH EAST ELEVATION
SCALE 1:100



PROPOSED NORTH WEST ELEVATION
SCALE 1:100

PROPOSED SOUTH WEST ELEVATION
SCALE 1:100



PROPOSED SOUTH EAST ELEVATION
SCALE 1:100

PROPOSED SITE PLAN
SCALE 1:250

PROPOSED SITE LOCATION PLAN
SCALE 1:1250

notes

rev	date	by	app.	description
A	04/23	AM		Site boundary line thickness reduced.

Consultant:
A.M.

Project Title:
No. 6 SAINT GILES GARTH
BRAMHOPE, LEEDS,LS16 9BD.

Drawing Title
PROPOSED PLANS AND ELEVATIONS
-

Drawn	Checked by	Scale
AM	CHKD	VARIABLE
Level	Plan	Date
	PLAN	13.10.2022
Project No.	Drawing No.	Revision
BH-P-001	D002	A

DATE PLOTTED : DPL
DWG SCALE : SCN
SAVED VIEW :
XREFERENCES : XREF

APPENDICES

APPENDIX A

SITE PHOTOGRAPHS

Photograph 1: A view of the property as taken from the roadway of St. Giles Garth.

Photograph 2: A view of the rising driveway along the eastern side of the site. Note cracked, but otherwise good quality concrete.

Photograph 3: A view of the front garden space falling slightly towards the roadway. Garden is generally well maintained with no invasive species.

Photograph 4: A view of the front elevation of the property.

Photograph 5: A view across the front garden space from west to east.

Photograph 6: The top end of the driveway extending to the rear garage.

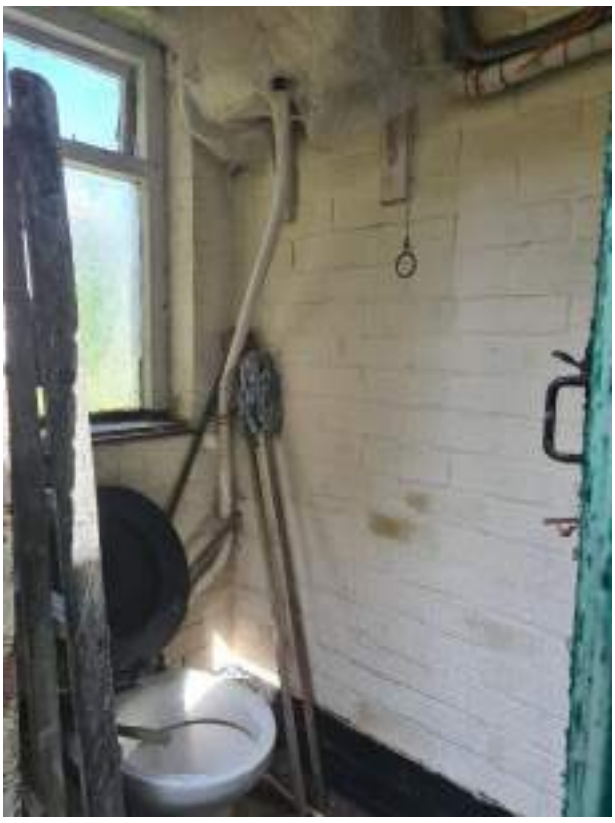
Photograph 7: Side elevation of the property noting construction of local Yorkshire sandstone.

Photograph 8: A view of the garage block to the rear of the site.

Photograph 9: An internal view of the garage. Noted clean concrete flooring and no storage of potentially hazardous materials.

Photograph 10: Garage roof structure of wood ply with felted top surface above.

Photograph 11: Garage roof structure of wood ply with felted top surface above.



Photograph 12: Small disused toilet to the rear of the garage.

Photograph 13: A view across the rear of the property

Photograph 14: Former potting shed located to the rear of the garage

Photograph 15: Rear garden space showing grassed lawn and tall established trees around the boundary.

Photograph 16: Rear garden space from west to east

Photograph 17: A view of the dormer bungalow property from the far southern boundary of the site.

Photograph 18: Am apartment block to the south of the site where a historical garage may have once been sited in the 1960's.

APPENDIX B

DATA REPORT

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

6, ST GILES GARTH, BRAMHOPE, LEEDS, LS16 9BD

Order Details

Date: 02/05/2023

Your ref: CLR6426_-_6_St_Giles_Garth_Leeds

Our Ref: GS-V8J-3PR-ZGU-9M1

Site Details

Location: 425059 443337

Area: 0.16 ha

Authority: Leeds City Council ↗

Contact us with any questions at:
info@groundsure.com ↗
01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
12 >	1.1 >	Historical industrial land uses >	0	0	16	13	-
14 >	1.2 >	Historical tanks >	0	0	0	4	-
14 >	1.3 >	Historical energy features >	0	0	7	4	-
15 >	1.4 >	Historical petrol stations >	0	0	0	0	-
15 >	1.5 >	Historical garages >	0	1	5	0	-
16 >	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
17 >	2.1 >	Historical industrial land uses >	0	0	21	18	-
19 >	2.2 >	Historical tanks >	0	0	0	6	-
20 >	2.3 >	Historical energy features >	0	0	9	5	-
20 >	2.4 >	Historical petrol stations >	0	0	0	0	-
21 >	2.5 >	Historical garages >	0	2	8	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
22 >	3.1 >	Active or recent landfill >	0	0	0	0	-
22 >	3.2 >	Historical landfill (BGS records) >	0	0	0	0	-
23 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	0	0	-
23 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	0	-
23 >	3.5 >	Historical waste sites >	0	0	0	0	-
23 >	3.6 >	Licensed waste sites >	0	0	0	0	-
23 >	3.7 >	Waste exemptions >	0	0	2	2	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
25 >	4.1 >	Recent industrial land uses >	0	0	3	-	-
26 >	4.2 >	Current or recent petrol stations >	0	0	0	0	-
26 >	4.3 >	Electricity cables >	0	0	0	0	-
26 >	4.4 >	Gas pipelines >	0	0	0	0	-
26 >	4.5 >	Sites determined as Contaminated Land >	0	0	1	0	-

26 >	4.6 >	Control of Major Accident Hazards (COMAH) >	0	0	0	0	-
27 >	4.7 >	Regulated explosive sites >	0	0	0	0	-
27 >	4.8 >	Hazardous substance storage/usage >	0	0	0	0	-
27 >	4.9 >	Historical licensed industrial activities (IPC) >	0	0	0	0	-
27 >	4.10 >	Licensed industrial activities (Part A(1)) >	0	0	0	0	-
27 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	0	0	-
28 >	4.12 >	Radioactive Substance Authorisations >	0	0	0	0	-
28 >	4.13 >	Licensed Discharges to controlled waters >	0	0	0	0	-
28 >	4.14 >	Pollutant release to surface waters (Red List) >	0	0	0	0	-
28 >	4.15 >	Pollutant release to public sewer >	0	0	0	0	-
28 >	4.16 >	List 1 Dangerous Substances >	0	0	0	0	-
29 >	4.17 >	List 2 Dangerous Substances >	0	0	0	0	-
29 >	4.18 >	Pollution Incidents (EA/NRW) >	0	0	0	0	-
29 >	4.19 >	Pollution inventory substances >	0	0	0	0	-
29 >	4.20 >	Pollution inventory waste transfers >	0	0	0	0	-
29 >	4.21 >	Pollution inventory radioactive waste >	0	0	0	0	-
Page	Section	**Hydrogeology** >	On site	0-50m	50-250m	250-500m	500-2000m
30 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
32 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
34 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
35 >	5.4 >	Groundwater vulnerability- soluble rock risk >	None (within 0m)				
35 >	5.5 >	Groundwater vulnerability- local information >	None (within 0m)				
36 >	5.6 >	Groundwater abstractions >	0	0	0	0	4
37 >	5.7 >	Surface water abstractions >	0	0	0	0	1
38 >	5.8 >	Potable abstractions >	0	0	0	0	0
38 >	5.9 >	Source Protection Zones >	0	0	0	0	-
38 >	5.10 >	Source Protection Zones (confined aquifer) >	0	0	0	0	-
Page	Section	**Hydrology** >	On site	0-50m	50-250m	250-500m	500-2000m
39 >	6.1 >	Water Network (OS MasterMap) >	0	0	0	-	-

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

51 >	10.13 >	Possible Special Areas of Conservation (pSAC) >	0	0	0	0	0
51 >	10.14 >	Potential Special Protection Areas (pSPA) >	0	0	0	0	0
51 >	10.15 >	Nitrate Sensitive Areas >	0	0	0	0	0
51 >	10.16 >	Nitrate Vulnerable Zones >	0	0	0	0	0
52 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
53 >	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
54 >	11.1 >	World Heritage Sites >	0	0	0	-	-
55 >	11.2 >	Area of Outstanding Natural Beauty >	0	0	0	-	-
55 >	11.3 >	National Parks >	0	0	0	-	-
55 >	11.4 >	Listed Buildings >	0	1	8	-	-
56 >	11.5 >	Conservation Areas >	1	0	0	-	-
56 >	11.6 >	Scheduled Ancient Monuments >	0	0	0	-	-
57 >	11.7 >	Registered Parks and Gardens >	0	0	0	-	-
Page	Section	**Agricultural designations >**	On site	0-50m	50-250m	250-500m	500-2000m
58 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
59 >	12.2 >	Open Access Land >	0	0	0	-	-
59 >	12.3 >	Tree Felling Licences >	0	0	0	-	-
59 >	12.4 >	Environmental Stewardship Schemes >	0	0	0	-	-
59 >	12.5 >	Countryside Stewardship Schemes >	0	0	0	-	-
Page	Section	**Habitat designations >**	On site	0-50m	50-250m	250-500m	500-2000m
60 >	13.1 >	Priority Habitat Inventory >	0	0	6	-	-
61 >	13.2 >	Habitat Networks >	0	0	0	-	-
61 >	13.3 >	Open Mosaic Habitat >	0	0	0	-	-
61 >	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
62 >	14.1 >	10k Availability >	Identified (within 500m)				
63 >	14.2 >	Artificial and made ground (10k) >	0	0	2	4	-
65 >	14.3 >	Superficial geology (10k) >	0	0	2	3	-

66 >	14.4 >	Landslip (10k) >	0	0	0	0	-
67 >	14.5 >	Bedrock geology (10k) >	1	3	9	16	-
69 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	3	5	-
Page	Section	**Geology 1:50,000 scale >**	On site	0-50m	50-250m	250-500m	500-2000m
70 >	15.1 >	50k Availability >	Identified (within 500m)				
71 >	15.2 >	Artificial and made ground (50k) >	0	0	0	0	-
71 >	15.3 >	Artificial ground permeability (50k) >	0	0	-	-	-
72 >	15.4 >	Superficial geology (50k) >	0	0	1	2	-
73 >	15.5 >	Superficial permeability (50k) >	None (within 50m)				
73 >	15.6 >	Landslip (50k) >	0	0	0	0	-
73 >	15.7 >	Landslip permeability (50k) >	None (within 50m)				
74 >	15.8 >	Bedrock geology (50k) >	1	1	6	8	-
75 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
76 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	2	2	-
Page	Section	**Boreholes >**	On site	0-50m	50-250m	250-500m	500-2000m
77 >	16.1 >	BGS Boreholes >	0	0	0	-	-
Page	Section	**Natural ground subsidence >**					
78 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
80 >	17.2 >	Running sands >	Negligible (within 50m)				
82 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
83 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
84 >	17.5 >	Landslides >	Low (within 50m)				
86 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	**Mining, ground workings and natural cavities >**	On site	0-50m	50-250m	250-500m	500-2000m
88 >	18.1 >	Natural cavities >	0	0	0	0	-
89 >	18.2 >	BritPits >	0	0	0	0	-
89 >	18.3 >	Surface ground workings >	0	0	9	-	-
89 >	18.4 >	Underground workings >	0	0	14	3	9
91 >	18.5 >	Historical Mineral Planning Areas >	0	0	0	0	-

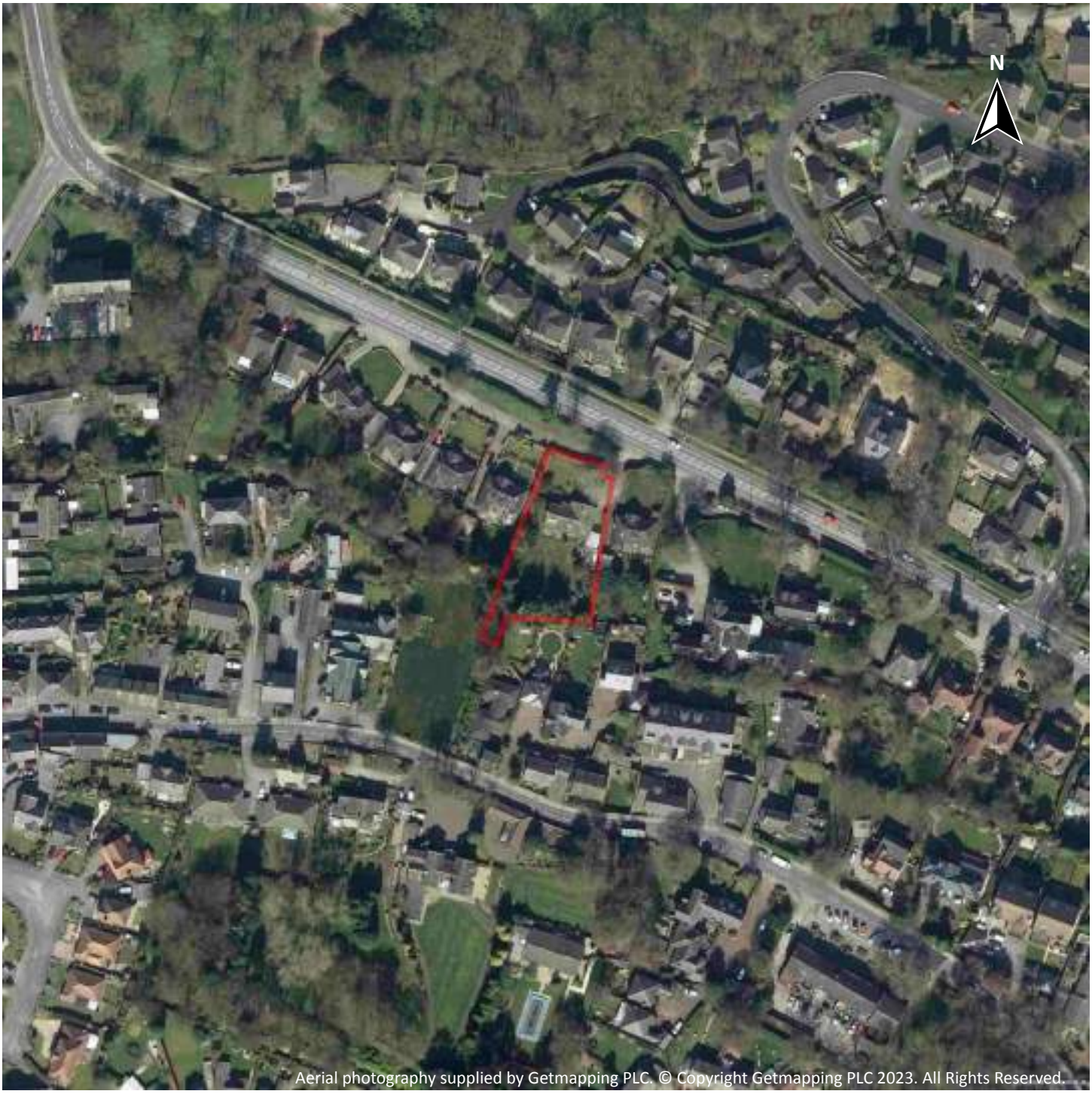
91 >	18.6 >	Non-coal mining >	1	1	0	0	0
91 >	18.7 >	Mining cavities >	0	0	0	0	0
92 >	18.8 >	JPB mining areas >	None (within 0m)				
92 >	18.9 >	Coal mining >	None (within 0m)				
92 >	18.10 >	Brine areas >	None (within 0m)				
92 >	18.11 >	Gypsum areas >	None (within 0m)				
92 >	18.12 >	Tin mining >	None (within 0m)				
93 >	18.13 >	Clay mining >	None (within 0m)				
Page	Section	**Radon** >					
94 >	19.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	**Soil chemistry** >	On site	0-50m	50-250m	250-500m	500-2000m
96 >	20.1 >	BGS Estimated Background Soil Chemistry >	1	5	-	-	-
96 >	20.2 >	BGS Estimated Urban Soil Chemistry >	0	0	-	-	-
97 >	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
98 >	21.1 >	Underground railways (London) >	0	0	0	-	-
98 >	21.2 >	Underground railways (Non-London) >	0	0	0	-	-
99 >	21.3 >	Railway tunnels >	0	0	1	-	-
99 >	21.4 >	Historical railway and tunnel features >	0	0	18	-	-
100 >	21.5 >	Royal Mail tunnels >	0	0	0	-	-
100 >	21.6 >	Historical railways >	0	0	0	-	-
100 >	21.7 >	Railways >	0	0	2	-	-
101 >	21.8 >	Crossrail 1 >	0	0	0	0	-
101 >	21.9 >	Crossrail 2 >	0	0	0	0	-
101 >	21.10 >	HS2 >	0	0	0	0	-

Recent aerial photograph

Capture Date: 19/04/2020

Site Area: 0.16ha

Recent site history - 2017 aerial photograph



Capture Date: 08/04/2017

Site Area: 0.16ha

Recent site history - 1999 aerial photograph

Capture Date: 10/07/1999

Site Area: 0.16ha

OS MasterMap site plan

Site Area: 0.16ha

1 Past land use

Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

1.1 Historical industrial land uses

Records within 500m	29

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
C	174m SE	Tunnel	1938	1457958

ID	Location	Land use	Dates present	Group ID
C	174m SE	Tunnel	1934	1457959
C	174m SE	Tunnel	1934	1457960
C	174m SE	Tunnel	1938	1457961
C	174m SE	Tunnel	1891 - 1906	1533114
D	175m SE	Tunnel	1955	1457962
D	175m SE	Tunnel	1990	1457999
D	175m SE	Tunnel	1980	1458009
D	175m SE	Tunnel	1968	1458051
E	183m E	Unspecified Heap	1938 - 1955	1480116
E	183m E	Unspecified Heap	1968 - 1980	1525214
E	183m E	Unspecified Heap	1891 - 1906	1494980
E	190m E	Unspecified Heap	1934	1465642
E	194m E	Unspecified Shaft	1891	1469586
E	202m E	Unspecified Shaft	1968 - 1990	1489161
1	208m NW	Unspecified Ground Workings	1967	1413438
2	318m S	Unspecified Heap	1955	1416460
3	367m S	Unspecified Ground Workings	1967	1413436
I	398m E	Unspecified Tank	1955	1434009
I	398m E	Unspecified Tank	1934 - 1938	1478613
J	414m S	Tunnel	1990	1464158
J	414m S	Tunnel	1967	1467047
J	414m S	Tunnel	1955	1521540
K	418m SW	Electric Substation	1990	1443254
L	444m SW	Sewage Tank	1934 - 1955	1496230
J	459m S	Unspecified Ground Workings	1967	1413437
M	488m SW	Nurseries	1967 - 1990	1478671
M	490m SW	Nurseries	1906	1464461
M	490m SW	Nurseries	1938	1530015

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	4

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 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
G	346m N	Unspecified Tank	1957 - 1964	250206
G	347m N	Unspecified Tank	-	222622
G	347m N	Unspecified Tank	-	222771
L	446m SW	Sewage Tank	1934	229866

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	11

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 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
B	53m W	Electricity Substation	1964	129848
B	55m W	Electricity Substation	-	128685
E	194m E	Electricity Substation	1957 - 1964	143722
E	197m E	Electricity Substation	-	128788
F	234m SW	Electricity Substation	1992	138104
F	235m SW	Electricity Substation	1964 - 1992	141146
F	236m SW	Electricity Substation	-	128653

ID	Location	Land use	Dates present	Group ID
H	378m E	Electricity Substation	1957 - 1964	141218
H	379m E	Electricity Substation	-	128631
H	379m E	Electricity Substation	-	128709
K	427m SW	Electricity Substation	1992	129847

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped 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	6

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 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
A	27m SE	Garage	1957 - 1992	46281
A	67m SE	Garage	-	41031
F	220m W	Garage	1964	46496
F	221m W	Garage	-	41054
F	228m W	Garage	1992	43717
F	234m W	Garage	1992	43424

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m	0

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

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

2 Past land use - un-grouped

Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

2.1 Historical industrial land uses

Records within 500m	39

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 17 >**

ID	Location	Land Use	Date	Group ID
C	174m SE	Tunnel	1891	1533114
C	174m SE	Tunnel	1938	1457958
C	174m SE	Tunnel	1906	1533114

ID	Location	Land Use	Date	Group ID
D	175m SE	Tunnel	1990	1457999
D	175m SE	Tunnel	1968	1458051
D	175m SE	Tunnel	1980	1458009
D	175m SE	Tunnel	1955	1457962
C	175m SE	Tunnel	1934	1457960
E	183m E	Unspecified Heap	1968	1525214
E	183m E	Unspecified Heap	1980	1525214
E	183m E	Unspecified Heap	1955	1480116
E	183m E	Unspecified Heap	1891	1494980
E	183m E	Unspecified Heap	1938	1480116
E	183m E	Unspecified Heap	1906	1494980
E	190m E	Unspecified Heap	1934	1465642
E	190m E	Unspecified Heap	1934	1465642
E	194m E	Unspecified Shaft	1891	1469586
E	202m E	Unspecified Shaft	1990	1489161
E	202m E	Unspecified Shaft	1968	1489161
E	202m E	Unspecified Shaft	1980	1489161
1	208m NW	Unspecified Ground Workings	1967	1413438
2	318m S	Unspecified Heap	1955	1416460
3	367m S	Unspecified Ground Workings	1967	1413436
I	398m E	Unspecified Tank	1955	1434009
I	398m E	Unspecified Tank	1938	1478613
I	398m E	Unspecified Tank	1934	1478613
J	414m S	Tunnel	1990	1464158
J	414m S	Tunnel	1955	1521540
J	414m S	Tunnel	1967	1467047
K	418m SW	Electric Substation	1990	1443254
L	444m SW	Sewage Tank	1934	1496230

ID	Location	Land Use	Date	Group ID
L	444m SW	Sewage Tank	1934	1496230
L	444m SW	Sewage Tank	1955	1496230
L	445m SW	Sewage Tank	1938	1496230
J	459m S	Unspecified Ground Workings	1967	1413437
M	488m SW	Nurseries	1967	1478671
M	488m SW	Nurseries	1990	1478671
M	490m SW	Nurseries	1938	1530015
M	490m SW	Nurseries	1906	1464461

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**6**

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 17 >**

ID	Location	Land Use	Date	Group ID
G	346m N	Unspecified Tank	1964	250206
G	346m N	Unspecified Tank	1964	250206
G	347m N	Unspecified Tank	-	222771
G	347m N	Unspecified Tank	-	222622
G	347m N	Unspecified Tank	1957	250206
L	446m SW	Sewage Tank	1934	229866

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 17 >**

ID	Location	Land Use	Date	Group ID
B	53m W	Electricity Substation	1964	129848
B	55m W	Electricity Substation	-	128685
E	194m E	Electricity Substation	1957	143722
E	196m E	Electricity Substation	1964	143722
E	197m E	Electricity Substation	-	128788
F	234m SW	Electricity Substation	1992	138104
F	235m SW	Electricity Substation	1964	141146
F	236m SW	Electricity Substation	-	128653
F	236m SW	Electricity Substation	1992	141146
H	378m E	Electricity Substation	1957	141218
H	379m E	Electricity Substation	-	128631
H	379m E	Electricity Substation	-	128709
H	380m E	Electricity Substation	1964	141218
K	427m SW	Electricity Substation	1992	129847

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	10

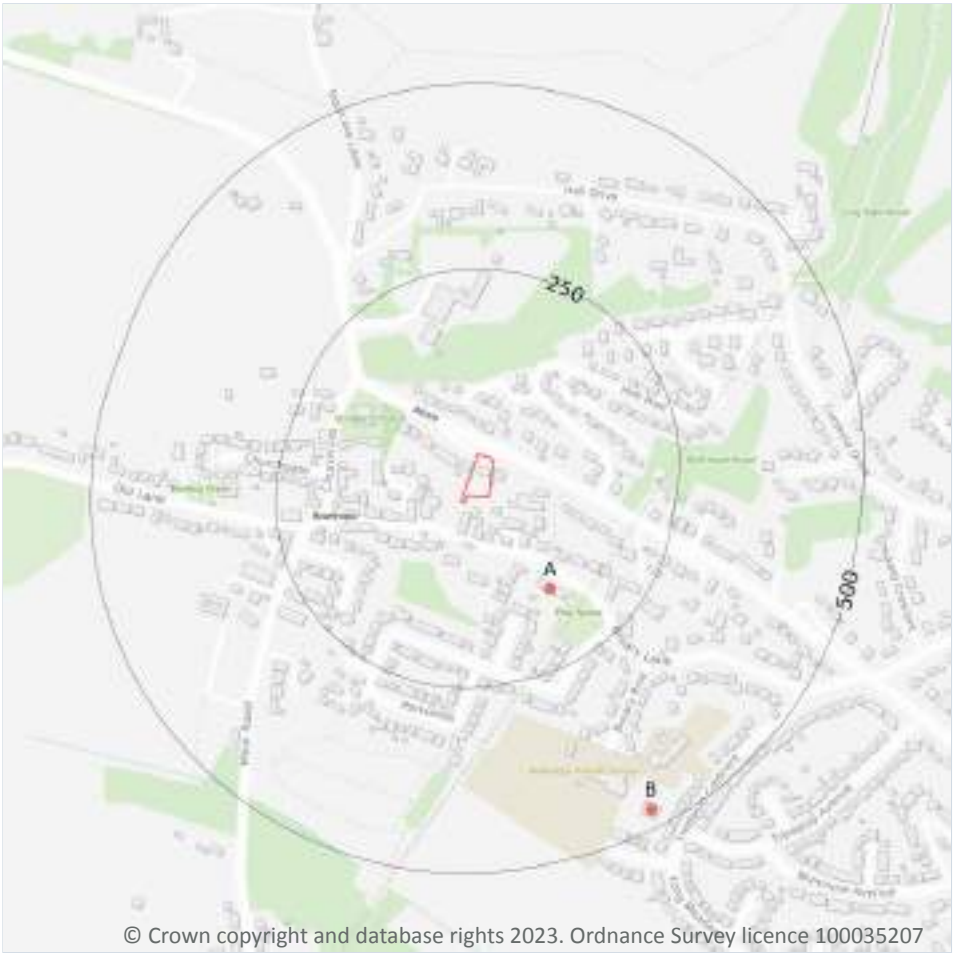
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 17 >**

ID	Location	Land Use	Date	Group ID
A	27m SE	Garage	1957	46281
A	27m SE	Garage	1992	46281
A	60m SE	Garage	1964	46281
A	60m SE	Garage	1964	46281
A	67m SE	Garage	-	41031
F	220m W	Garage	1964	46496
F	220m W	Garage	1964	46496
F	221m W	Garage	-	41054
F	228m W	Garage	1992	43717
F	234m W	Garage	1992	43424

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	0

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

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

3.5 Historical waste sites

Records within 500m	0

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

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

3.6 Licensed waste sites

Records within 500m	0

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

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

3.7 Waste exemptions

Records within 500m	4

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

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

ID	Location	Site	Reference	Category	Sub-Category	Description
A	149m SE	4, THE PARADE, BRAMHOPE, LEEDS, LS16 9AF	WEX250859	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
A	149m SE	4, THE PARADE, BRAMHOPE, LEEDS, LS16 9AF	WEX109355	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	476m SE	TREDGOLD CRESCENT, BRAMHOPE, LEEDS, LS16 9BR	WEX258176	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	476m SE	TREDGOLD CRESCENT, BRAMHOPE, LEEDS, LS16 9BR	WEX116991	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal

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

4 Current industrial land use

Site Outline

Search buffers in metres (m)

Recent industrial land uses

Sites determined as Contaminated Land

4.1 Recent industrial land uses

Records within 250m	3

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 25 >**

ID	Location	Company	Address	Activity	Category
A	200m E	Electricity Sub Station	West Yorkshire, LS16	Electrical Features	Infrastructure and Facilities
A	232m E	Shaft	West Yorkshire, LS16	Unspecified Quarries Or Mines	Extractive Industries
B	239m SW	Electricity Sub Station	West Yorkshire, LS16	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	1

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

Features are displayed on the Current industrial land use map on **page 25 >**

ID	Location	Description	Site name	Category	Year identified
B	222m W	Former Garage/PFS	Moor Road, Bramhope, Leeds	Potentially Contaminated Land	Not specified

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	0

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

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	0

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

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	0

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

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

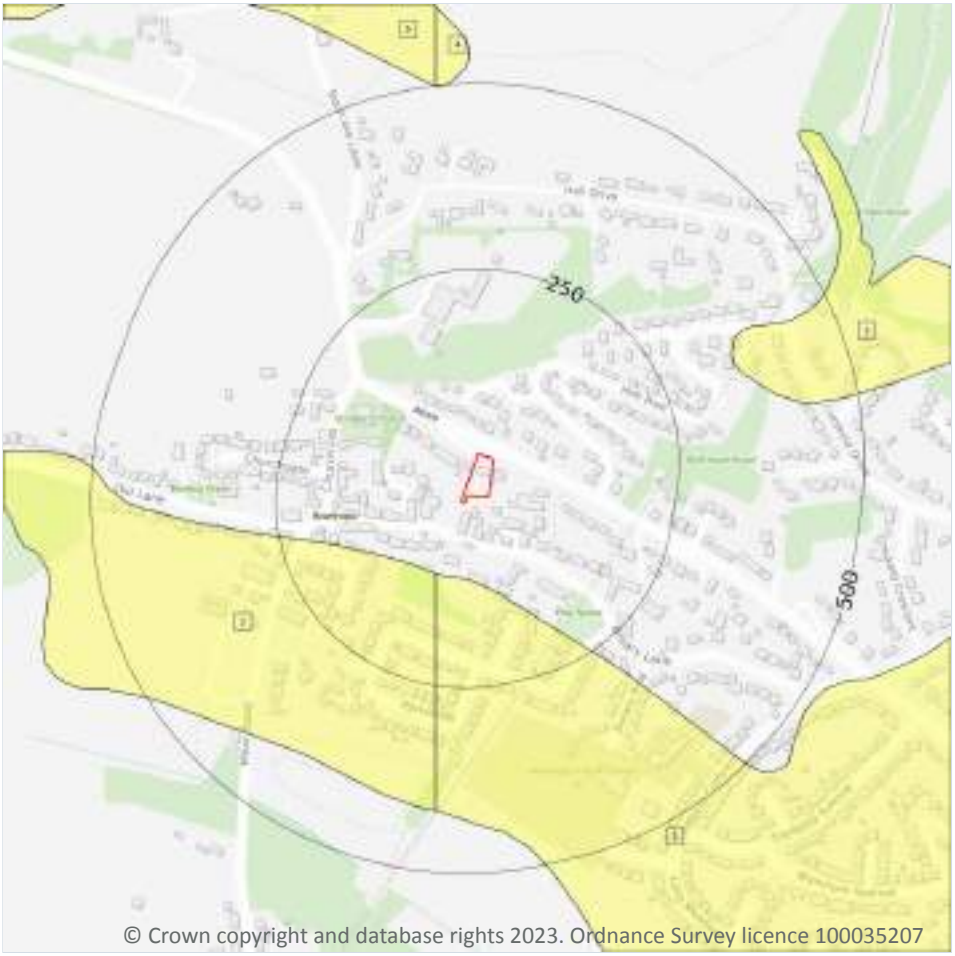
4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive
- Unknown

5.1 Superficial aquifer

Records within 500m	5

Aquifer status of groundwater held within superficial geology.

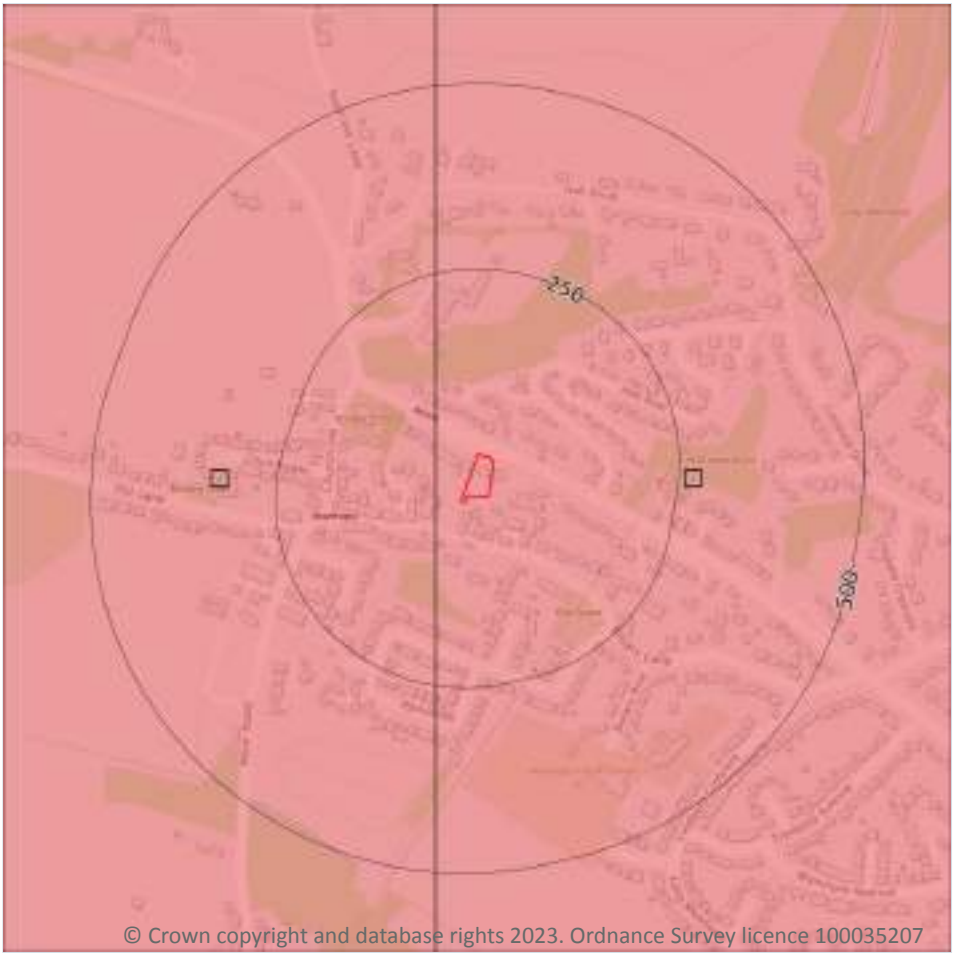
Features are displayed on the Hydrogeology map on **page 30 >**

ID	Location	Designation	Description
1	101m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	104m SW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

ID	Location	Designation	Description
3	349m NE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	498m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
5	499m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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

Bedrock aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

5.2 Bedrock aquifer

Records within 500m	2

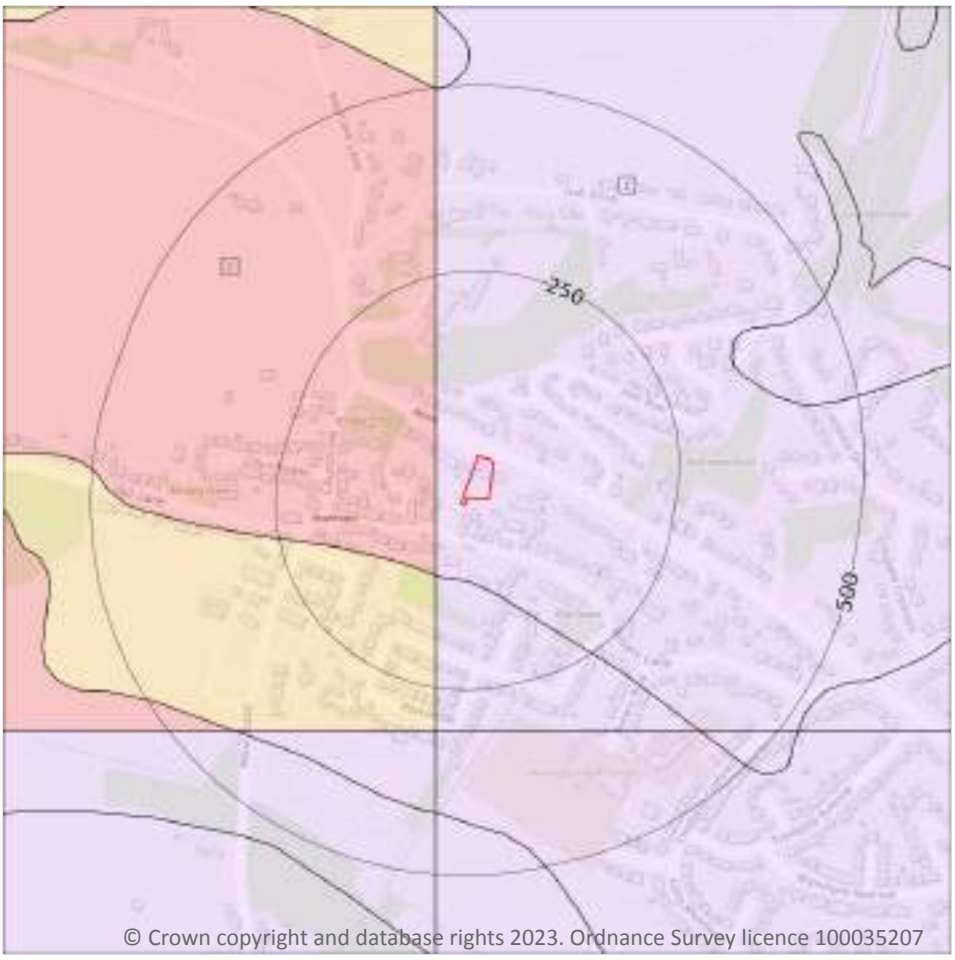
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 32 >**

ID	Location	Designation	Description
1	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**
2	34m 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.

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

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

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

Other information
- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	2

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

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

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

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**
2	34m SW	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	**0**

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

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

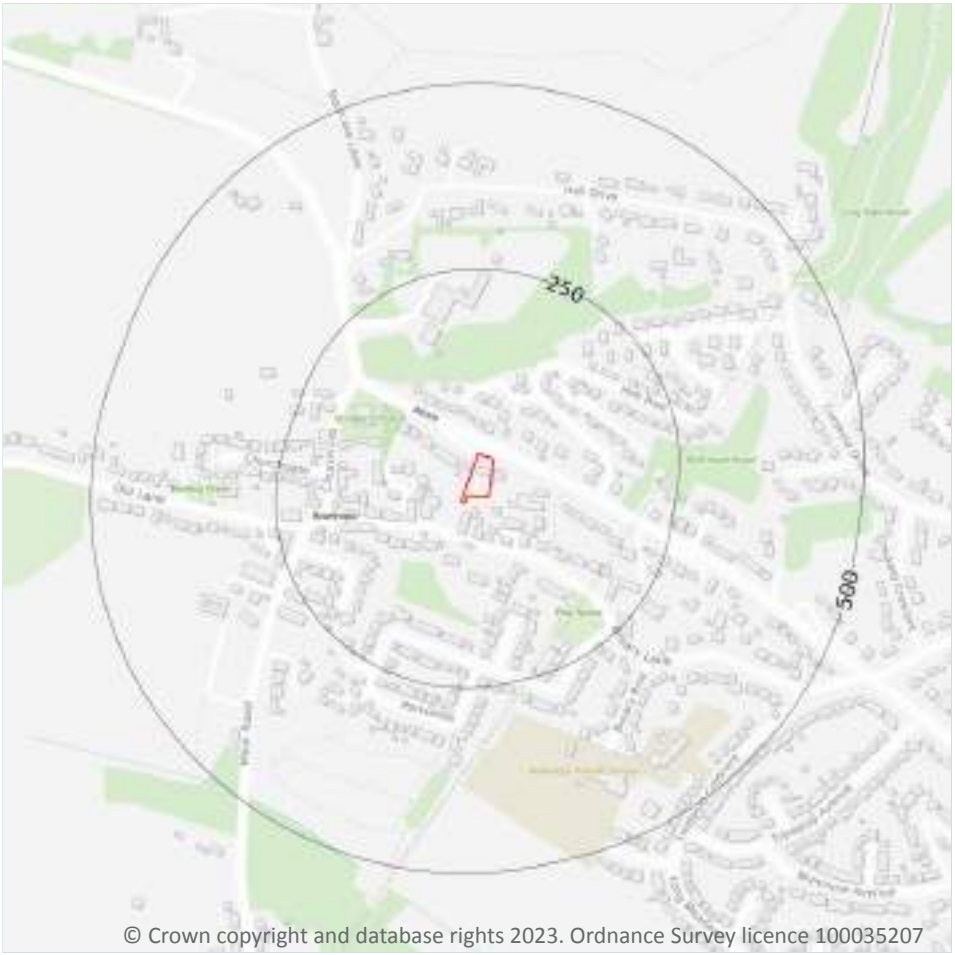
5.5 Groundwater vulnerability- local information

Records on site	**0**

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

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

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

- Source Protection Zone 1 — Inner catchment
- Source Protection Zone 2 — Outer catchment
- Source Protection Zone 3 — Total catchment
- Source Protection Zone 4 — Zone of Special Interest
- Source Protection Zone 1c — Inner catchment - confined aquifer
- Source Protection Zone 2c — Outer catchment - confined aquifer
- Source Protection Zone 3c — Total catchment - confined aquifer
- Drinking water abstraction licences
- Drinking water abstraction licences — Polygon features
- Drinking water abstraction licences — Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m	4

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

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

ID	Location	Details	
-	1099m SE	Status: Historical Licence No: 2/27/17/187 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: HERON Easting: 425500 Northing: 442300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 08/12/1994 Expiry Date: - Issue No: 100 Version Start Date: 08/12/1994 Version End Date: -
-	1099m SE	Status: Active Licence No: 2/27/17/187 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - MILLSTONE GRIT - BRAMHOPE Data Type: Point Name: HERON Easting: 425500 Northing: 442300	Annual Volume (m^3): 10000 Max Daily Volume (m^3): 24 Original Application No: 6651 Original Start Date: 08/12/1994 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
-	1739m NE	Status: Historical Licence No: 2/27/20/003 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: J & C STODDART-SCOTT Easting: 426300 Northing: 444600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1997 Version End Date: -
-	1739m NE	Status: Active Licence No: 2/27/20/003 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - MILLSTONE GRIT - ARTHINGTON - LEEDS Data Type: Point Name: J & C STODDART-SCOTT Easting: 426300 Northing: 444600	Annual Volume (m^3): 9955 Max Daily Volume (m^3): 27.27 Original Application No: 313 Original Start Date: 01/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**1**

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

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

ID	Location	Details	
-	1289m NE	Status: Historical Licence No: 2/27/20/005 Details: General Farming & Domestic Direct Source: SURFACE WATER Point: ARTHINGTON TUNNEL STREAM Data Type: Point Name: SPRINGALL Easting: 425740 Northing: 444470	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 28/11/1972 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	0

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

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

5.9 Source Protection Zones

Records within 500m	0

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

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

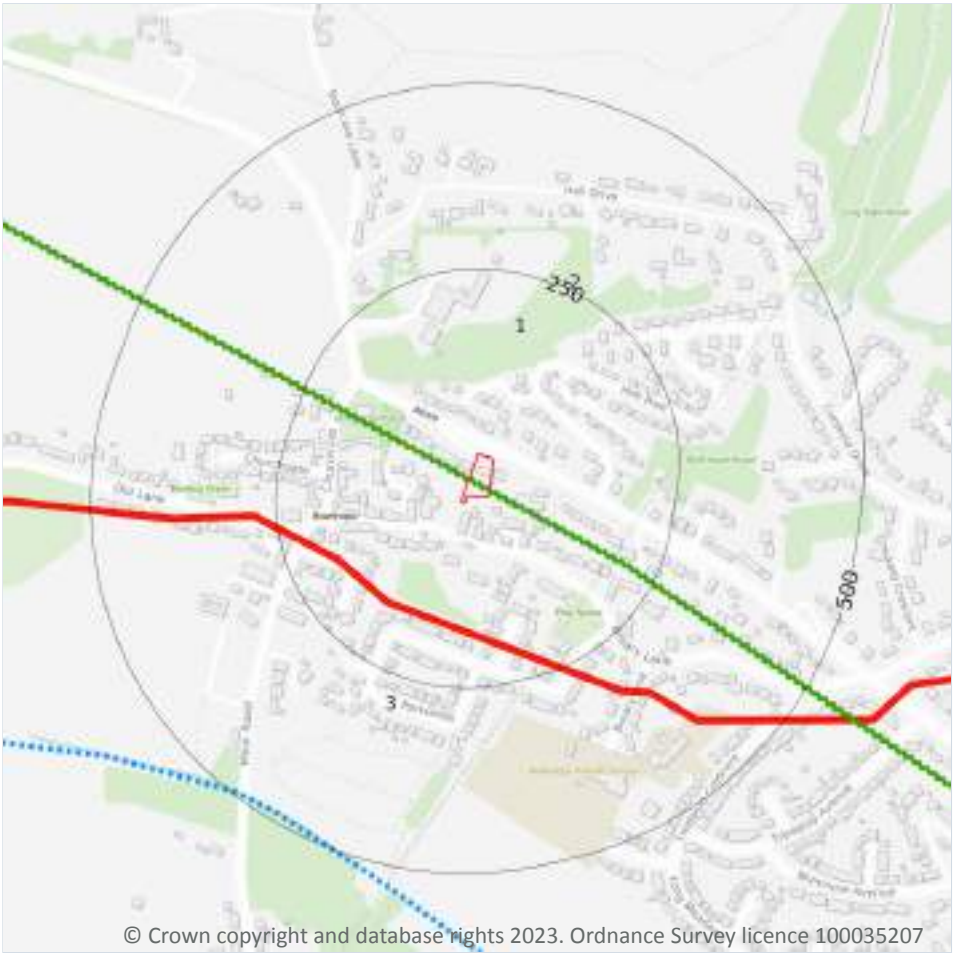
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	0

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

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	0

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

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	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 39 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	**On site**	**River**	**Wharfe from R Washburn to Collingham Beck**	**GB104027064254**	**Wharfe Middle and Washburn**	**Wharfe and Ouse Lower**

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 39 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1946m N	River	Wharfe from R Washburn to Collingham Beck	GB104027064254 ↗	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site	2

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

Features are displayed on the Hydrology map on **page 39 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	**On site**	**Wharfe & Lower Ouse Millstone Grit and Carb Limestone**	**GB40402G700500** ↗	**Poor**	**Poor**	**Good**	**2019**
3	**On site**	**Aire & Calder Carb Limestone / Millstone Grit / Coal Measures.**	**GB40402G700400** ↗	**Poor**	**Poor**	**Good**	**2019**

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

7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m	0

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

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

7.2 Historical Flood Events

Records within 250m	0

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

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

7.3 Flood Defences

Records within 250m	0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

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

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

7.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0

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

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

7.7 Flood Zone 3

Records within 50m	0

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

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

8 Surface water flooding

8.1 Surface water flooding

Highest risk on site	**Negligible**
Highest risk within 50m	**Negligible**

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

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

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

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding

Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

Highest risk on site	**Negligible**
Highest risk within 50m	**Negligible**

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

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

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations

Site Outline

Search buffers in metres (m)

Designated Ancient Woodland

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	0

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

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

10.7 Designated Ancient Woodland

Records within 2000m	3

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

Features are displayed on the Environmental designations map on **page 47 >**

ID	Location	Name	Woodland Type
2	797m NE	Unknown	Ancient Replanted Woodland
3	959m N	Bramhope Wood	Ancient & Semi-Natural Woodland
4	1173m SE	Spring Wood	Ancient Replanted Woodland

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	2

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

Features are displayed on the Environmental designations map on **page 47 >**

ID	Location	Name	Local Authority name
1	197m NW	South and West Yorkshire	Leeds
-	1942m N	South and West Yorkshire	Harrogate

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.

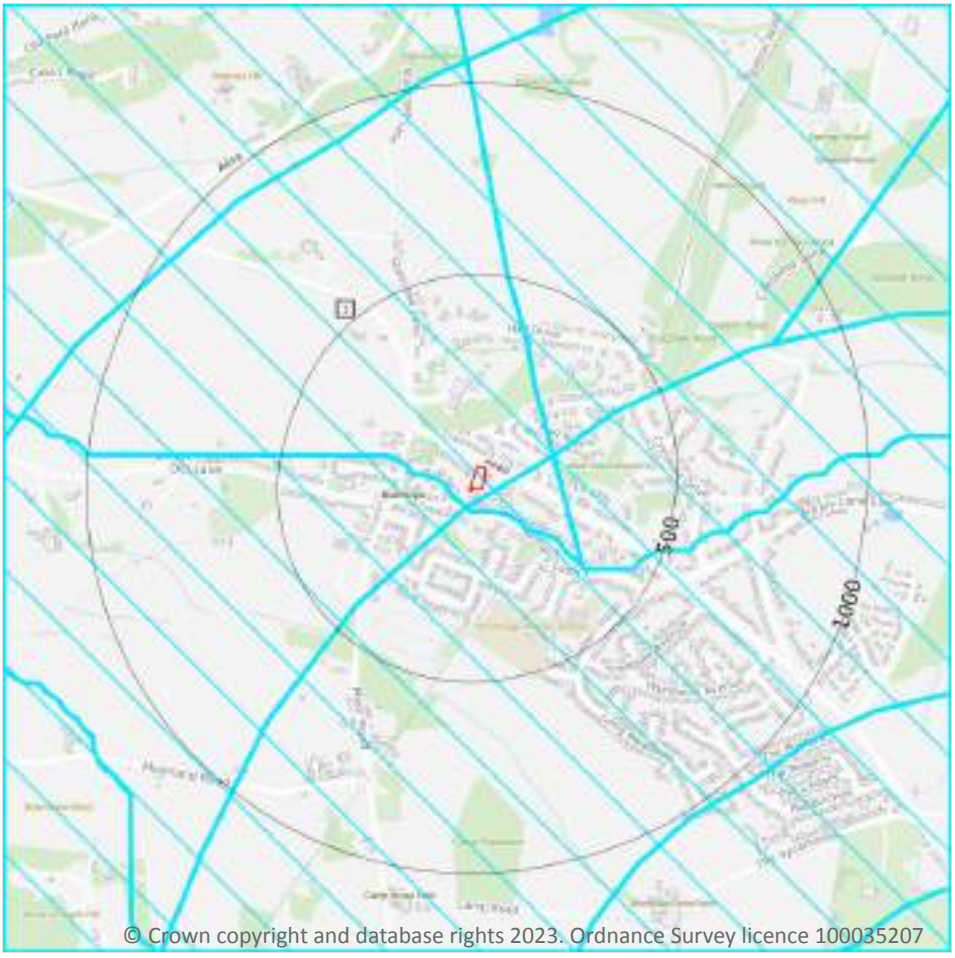
10.16 Nitrate Vulnerable Zones

Records within 2000m	0

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.

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

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

Not recorded

Favourable

Unfavourable - Recovering

Unfavourable - No change

Unfavourable - Declining

Partially destroyed

Destroyed

10.17 SSSI Impact Risk Zones

Records on site	1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 52 >**

ID	Location	Type of developments requiring consultation
1	**On site**	**Infrastructure - Airports, helipads and other aviation proposals.** **Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction.** **Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t.** **Combustion - General combustion processes >50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.**

This data is sourced from Natural England.

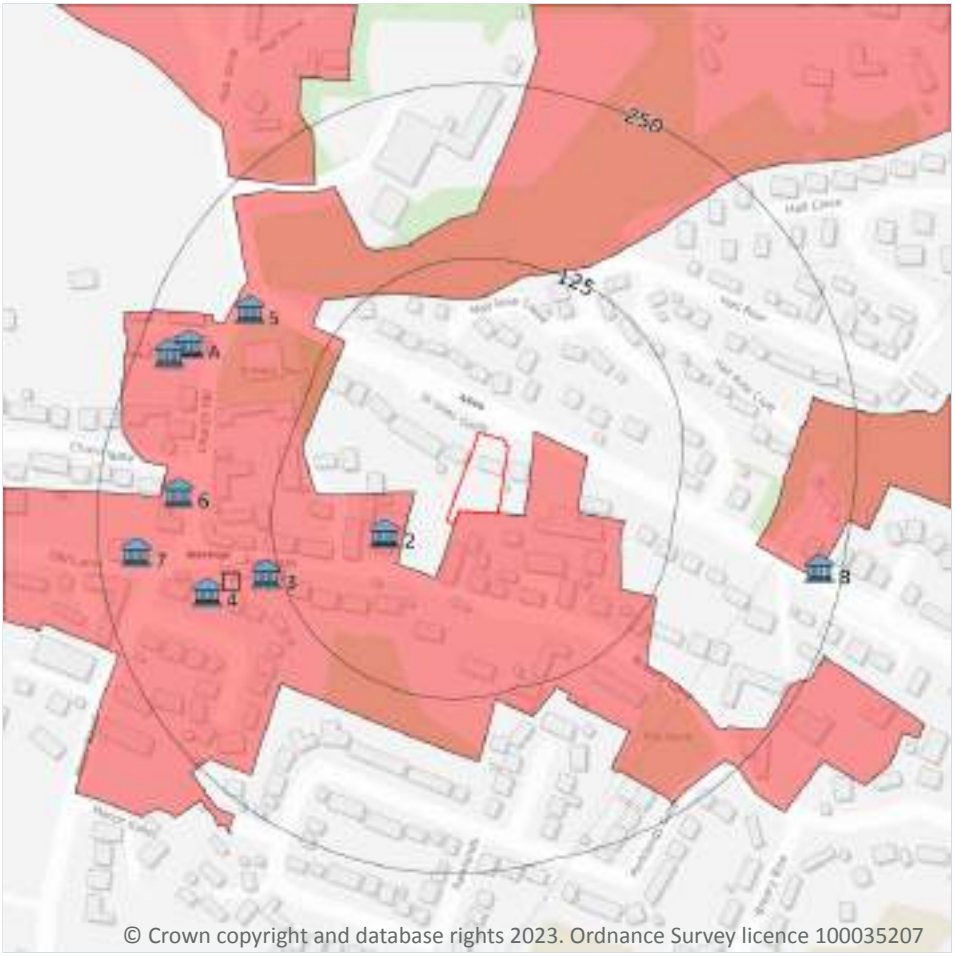
10.18 SSSI Units

Records within 2000m	**0**

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

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

11 Visual and cultural designations



Site Outline

Search buffers in metres (m)

Listed buildings

Conservation areas

Conservation areas - no data

National Parks

Areas of Outstanding Natural Beauty

Registered parks and gardens

Scheduled Monuments

World Heritage Sites

11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	9

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

Features are displayed on the Visual and cultural designations map on **page 54 >**

ID	Location	Name	Grade	Reference Number	Listed date
2	45m SW	Methodist Church, Bramhope, Leeds, LS16	II	1253373	30/04/1982
3	135m SW	Weavers Cottage, Bramhope, Leeds, LS16	II	1261836	07/04/1988
4	179m W	Manor House, Bramhope, Leeds, LS16	II	1253375	07/04/1988
5	186m NW	Milepost On East Corner of Junction With Church Hill At Se 249 434, Bramhope, Leeds, LS16	II	1261800	07/04/1988
6	193m W	1, Church Hill, Bramhope, Leeds, LS16	II	1253371	07/04/1988

ID	Location	Name	Grade	Reference Number	Listed date
A	217m NW	Old Manor Farmhouse (Rear Portion Only), Bramhope, Leeds, LS16	II	1261835	07/04/1988
7	223m W	The Hollies, Bramhope, Leeds, LS16	II	1253380	26/10/1987
A	228m W	Barn Approximately 5 Metres West of Old Manor Farmhouse, Bramhope, Leeds, LS16	II	1253372	07/04/1988
8	234m E	Milepost At Se 253 432, Bramhope, Leeds, LS16	II	1253384	07/04/1988

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

11.5 Conservation Areas

Records within 250m	**1**

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.

Features are displayed on the Visual and cultural designations map on **page 54 >**

ID	Location	Name	District	Date of designation
1	**On site**	**Bramhope, Leeds**	**Leeds**	**30/05/2011**

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

11.6 Scheduled Ancient Monuments

Records within 250m	**0**

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

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

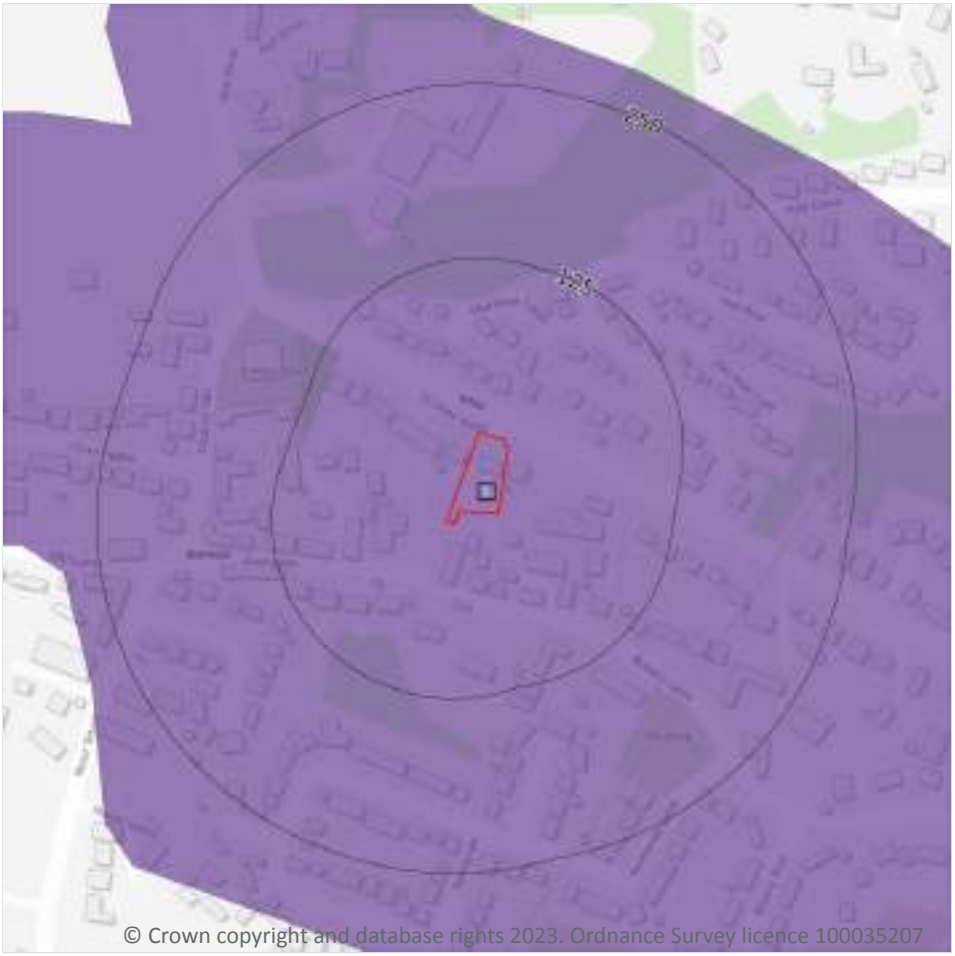
11.7 Registered Parks and Gardens

Records within 250m	0

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

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

12 Agricultural designations



Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m	1

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

Features are displayed on the Agricultural designations map on **page 58 >**

ID	Location	Classification	Description
1	**On site**	**Urban**	-

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. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

13 Habitat designations

Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

Habitat Networks

Primary Habitat
Restorable Habitat
Associated Habitats
Habitat Restoration-Creation
Network Enhancement Zone 1
Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m	6

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 60 >**

ID	Location	Main Habitat	Other habitats
A	92m SW	No main habitat but additional habitats present	Main habitat: DWOOD (INV > 50%)
1	96m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	152m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	189m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
3	198m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	198m E	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	2

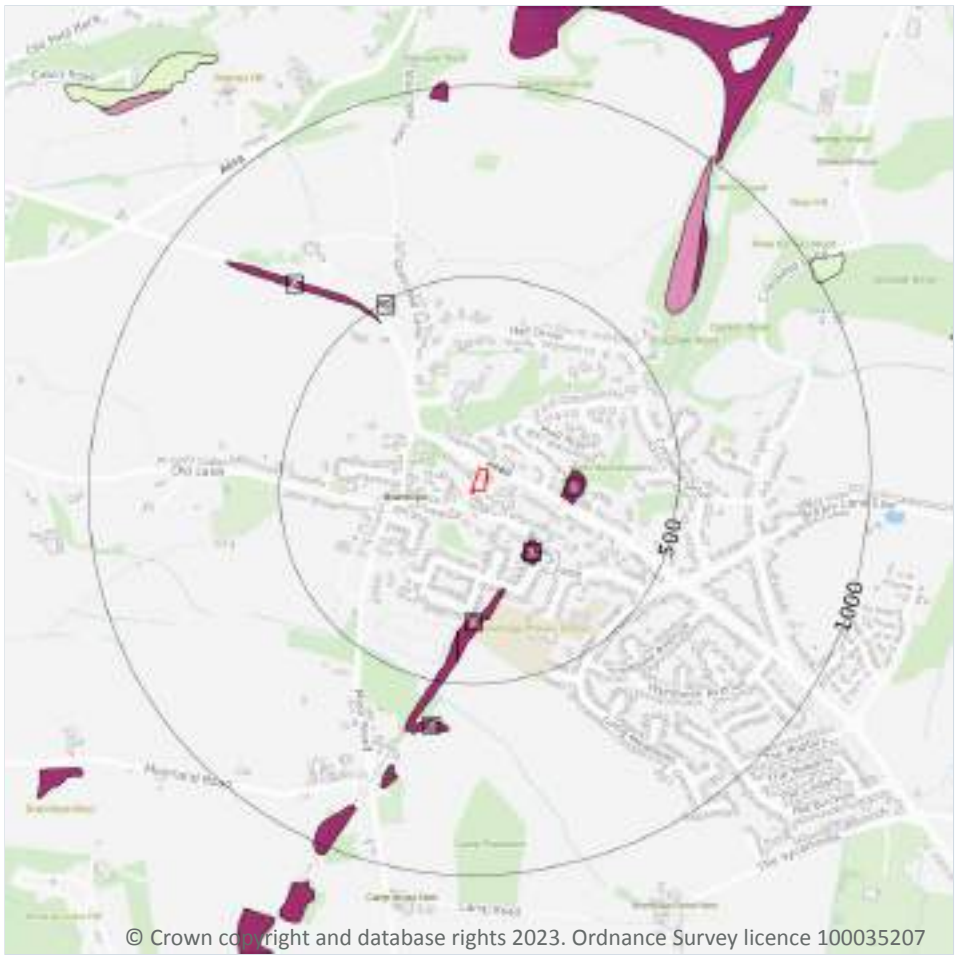
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 62 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**SE24SE**
2	34m SW	Full	Full	Full	Full	SE24SW

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 **6**

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 63 >**

ID	Location	LEX Code	Description	Rock description
1	176m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	197m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	262m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	364m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
5	458m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	476m NW	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	5

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 65 >**

ID	Location	LEX Code	Description	Rock description
1	104m SW	TILL-DMTN	Till - Diamicton	Diamicton
2	104m SW	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
3	358m E	TILL-DMTN	Till - Diamicton	Diamicton

ID	Location	LEX Code	Description	Rock description
4	498m N	HMGD-DMTN	Hummocky (moundy) Glacial Deposits - Diamicton	Diamicton
5	499m N	HMGD-DMTN	Hummocky (moundy) Glacial Deposits - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

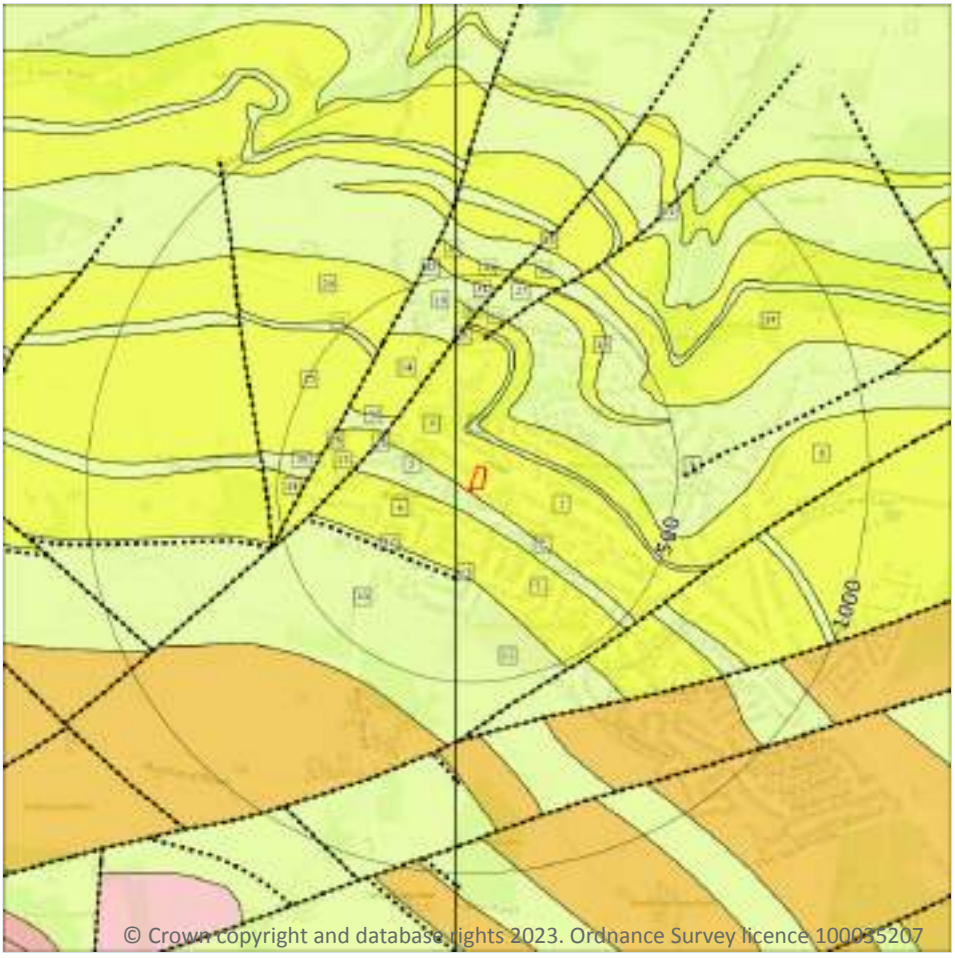
14.4 Landslip (10k)

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 **29**

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 67 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**DSS-SDST**	**Doubler Stones Sandstone - Sandstone**	**Kinderscoutian Sub-age**
2	3m SW	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
3	34m SW	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age

ID	Location	LEX Code	Description	Rock age
4	39m W	DSS-SDST	Doubler Stones Sandstone - Sandstone	Kinderscoutian Sub-age
5	57m SW	HMSA-SDST	High Moor Sandstone - Sandstone	Kinderscoutian Sub-age
6	58m SW	HMSA-SDST	High Moor Sandstone - Sandstone	Kinderscoutian Sub-age
7	69m NE	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
8	82m NE	LRSS-SDST	Long Ridge Sandstone - Sandstone	Kinderscoutian Sub-age
9	149m NE	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
10	209m SW	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
11	214m S	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
14	243m NW	LRSS-SDST	Long Ridge Sandstone - Sandstone	Kinderscoutian Sub-age
16	244m NW	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
17	255m NW	DSS-SDST	Doubler Stones Sandstone - Sandstone	Kinderscoutian Sub-age
18	317m NE	MGCK-SDST	Unnamed Sandstone Of Kinderscoutian Age (in Millstone Grit Group) - Sandstone	Kinderscoutian Sub-age
19	326m N	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
22	337m N	LRSS-SDST	Long Ridge Sandstone - Sandstone	Kinderscoutian Sub-age
24	352m N	LRSS-SDST	Long Ridge Sandstone - Sandstone	Kinderscoutian Sub-age
25	369m NW	DSS-SDST	Doubler Stones Sandstone - Sandstone	Kinderscoutian Sub-age
27	382m N	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
28	386m NW	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
29	395m NW	LRSS-SDST	Long Ridge Sandstone - Sandstone	Kinderscoutian Sub-age
30	397m W	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
31	401m N	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
33	424m W	HMSA-SDST	High Moor Sandstone - Sandstone	Kinderscoutian Sub-age

ID	Location	LEX Code	Description	Rock age
34	461m NE	AE-SDST	Addingham Edge Grit - Sandstone	Kinderscoutian Sub-age
35	466m N	MGCK-SDST	Unnamed Sandstone Of Kinderscoutian Age (in Millstone Grit Group) - Sandstone	Kinderscoutian Sub-age
36	491m N	MGCK-SDST	Unnamed Sandstone Of Kinderscoutian Age (in Millstone Grit Group) - Sandstone	Kinderscoutian Sub-age
37	496m N	MGCK-SDST	Unnamed Sandstone Of Kinderscoutian Age (in Millstone Grit Group) - Sandstone	Kinderscoutian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m **8**

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 67 >**

ID	Location	Category	Description
12	227m SW	FOSSIL_HORIZON	Fossil horizon, marine band
13	233m S	FOSSIL_HORIZON	Fossil horizon, marine band
15	243m NW	FAULT	Normal fault, inferred
20	326m N	FAULT	Normal fault, inferred
21	332m N	FAULT	Normal fault, inferred
23	337m N	FAULT	Normal fault, inferred
26	369m NW	FAULT	Normal fault, inferred
32	405m NW	FAULT	Normal fault, inferred

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 70 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW069_bradford_v4**

This data is sourced from the British Geological Survey.

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

15.2 Artificial and made ground (50k)

Records within 500m	0

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.

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial

Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m	3

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 72 >**

ID	Location	LEX Code	Description	Rock description
1	101m S	HRT-CSV	HARROGATE TILL FORMATION	CLAY, SANDY, GRAVELLY
2	349m NE	HRT-CSV	HARROGATE TILL FORMATION	CLAY, SANDY, GRAVELLY
3	498m N	HMGDD-DMTN	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS, DEVENSIAN	DIAMICTON

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.

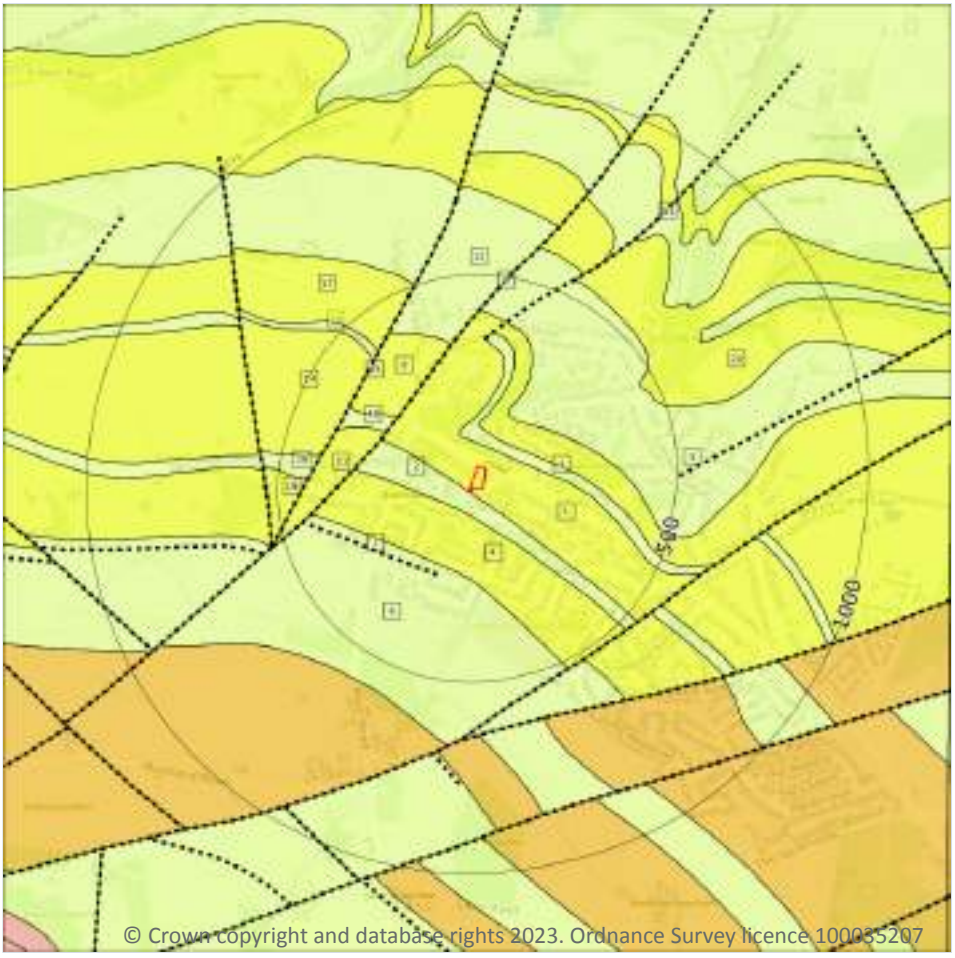
15.7 Landslip permeability (50k)

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	16

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 74 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**DSS-SDST**	**DOUBLER STONES SANDSTONE - SANDSTONE**	**NAMURIAN**
2	4m SW	MG-MDSS	MILLSTONE GRIT GROUP [SEE ALSO MIGR] - MUDSTONE, SILTSTONE AND SANDSTONE	NAMURIAN
3	52m NE	MG-MDSS	MILLSTONE GRIT GROUP [SEE ALSO MIGR] - MUDSTONE, SILTSTONE AND SANDSTONE	NAMURIAN

ID	Location	LEX Code	Description	Rock age
4	57m SW	HMSA-SDST	HIGH MOOR SANDSTONE - SANDSTONE	NAMURIAN
5	149m NE	MG-MDSS	MILLSTONE GRIT GROUP [SEE ALSO MIGR] - MUDSTONE, SILTSTONE AND SANDSTONE	NAMURIAN
6	209m SW	MG-MDSS	MILLSTONE GRIT GROUP [SEE ALSO MIGR] - MUDSTONE, SILTSTONE AND SANDSTONE	NAMURIAN
8	243m NW	LRSS-SDST	LONG RIDGE SANDSTONE - SANDSTONE	NAMURIAN
10	244m NW	MG-MDSS	MILLSTONE GRIT GROUP [SEE ALSO MIGR] - MUDSTONE, SILTSTONE AND SANDSTONE	NAMURIAN
11	255m NW	DSS-SDST	DOUBLER STONES SANDSTONE - SANDSTONE	NAMURIAN
12	326m N	MG-MDSS	MILLSTONE GRIT GROUP [SEE ALSO MIGR] - MUDSTONE, SILTSTONE AND SANDSTONE	NAMURIAN
14	369m NW	DSS-SDST	DOUBLER STONES SANDSTONE - SANDSTONE	NAMURIAN
16	387m NW	MG-MDSS	MILLSTONE GRIT GROUP [SEE ALSO MIGR] - MUDSTONE, SILTSTONE AND SANDSTONE	NAMURIAN
17	395m NW	LRSS-SDST	LONG RIDGE SANDSTONE - SANDSTONE	NAMURIAN
18	397m W	MG-MDSS	MILLSTONE GRIT GROUP [SEE ALSO MIGR] - MUDSTONE, SILTSTONE AND SANDSTONE	NAMURIAN
19	424m W	DSS-SDST	DOUBLER STONES SANDSTONE - SANDSTONE	NAMURIAN
20	460m NE	AE-SDST	ADDINGHAM EDGE GRIT - SANDSTONE	NAMURIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m **4**

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**	**Moderate**
4m SW	Fracture	Moderate	Low
34m SW	Fracture	Moderate	Low
39m W	Fracture	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	4

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 74 >**

ID	Location	Category	Description
7	236m SW	FOSSIL_HORIZON	Marine band
9	243m NW	FAULT	Fault, inferred
13	332m N	FAULT	Fault, inferred
15	369m NW	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.

16 Boreholes

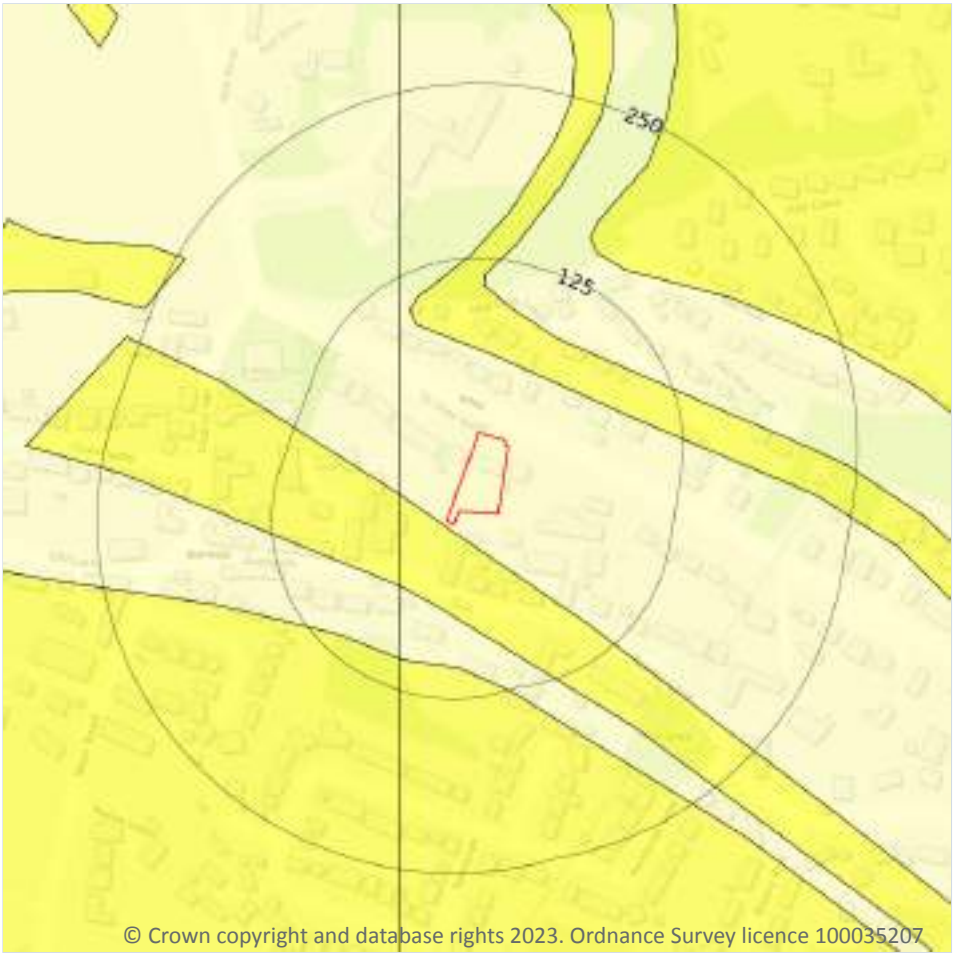
16.1 BGS Boreholes

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



Site Outline

Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m	4

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).

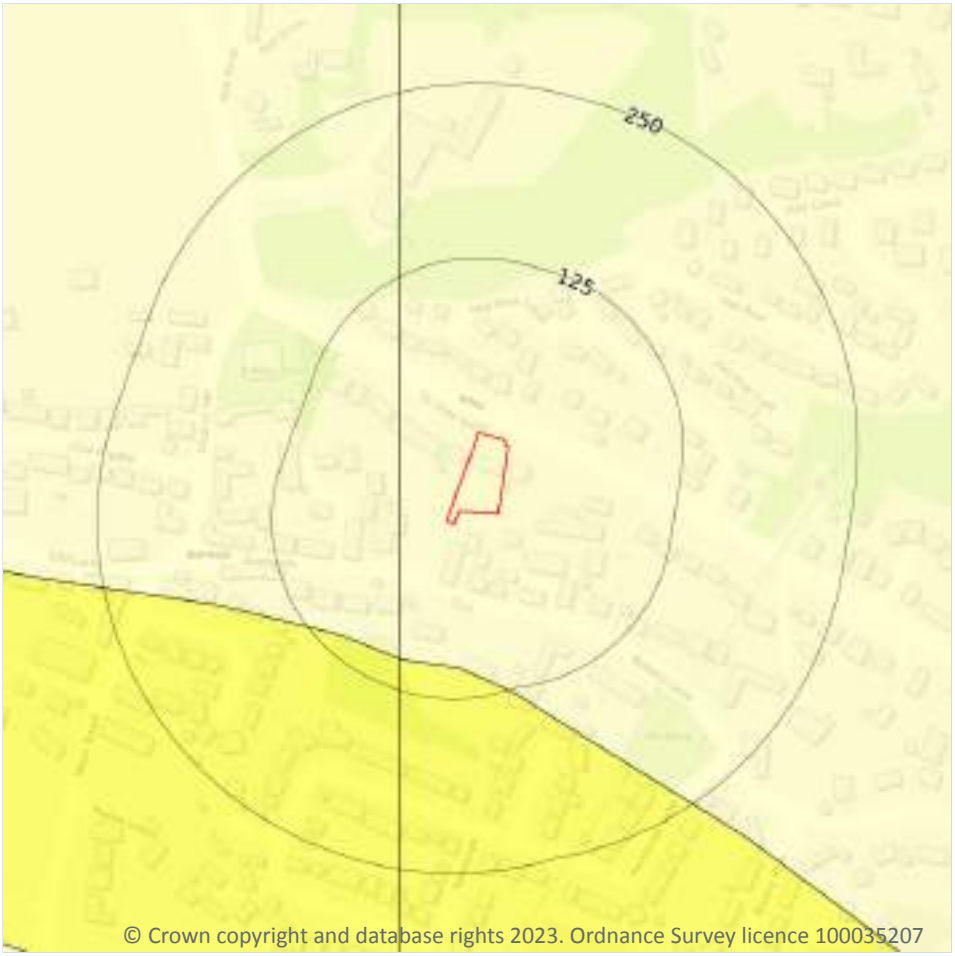
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 78 >**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**
4m SW	Very low	Ground conditions predominantly low plasticity.
34m SW	Very low	Ground conditions predominantly low plasticity.

Location	Hazard rating	Details
39m W	Negligible	Ground conditions predominantly non-plastic.

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.

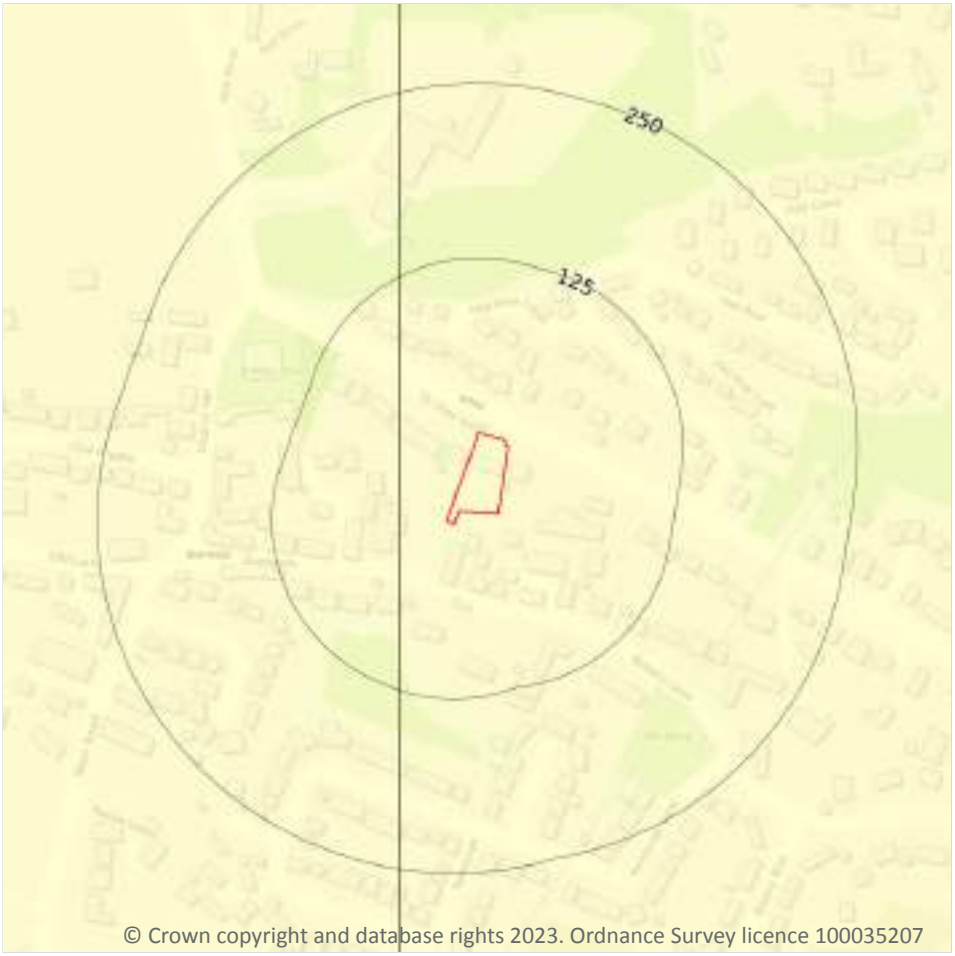
Features are displayed on the Natural ground subsidence - Running sands map on **page 80 >**

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
34m SW	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	2

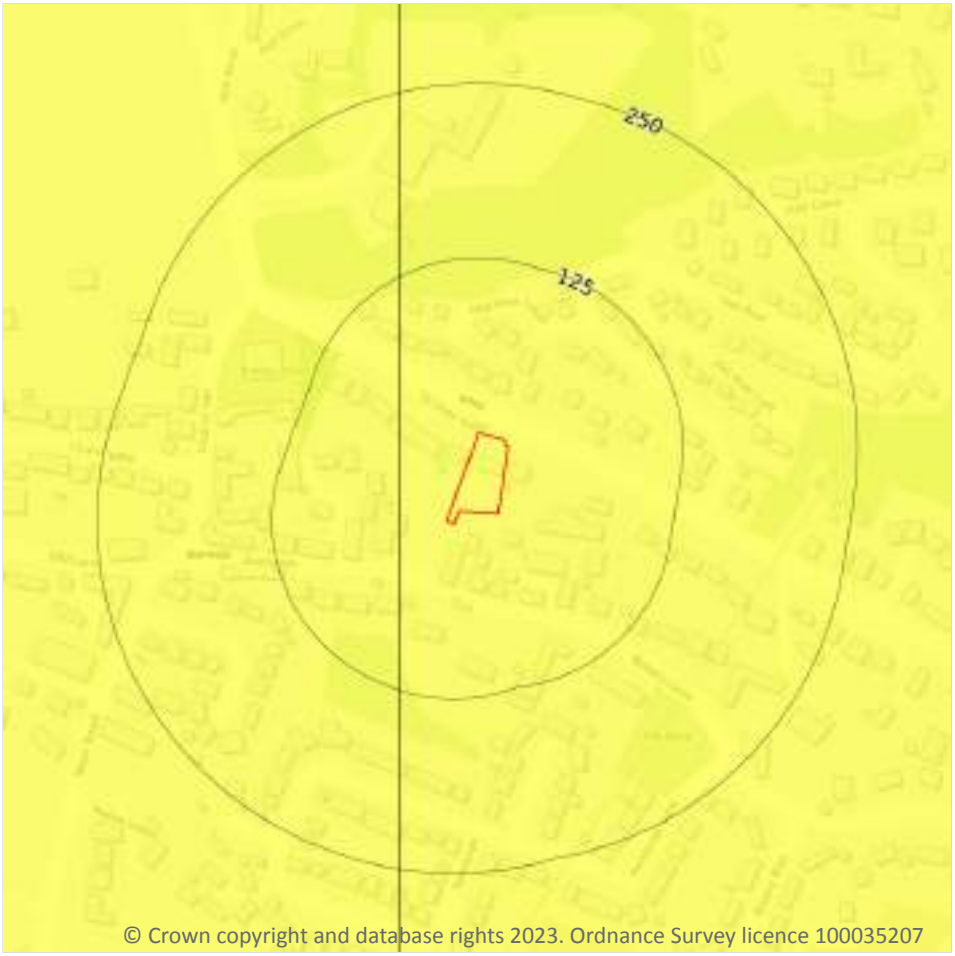
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 82 >**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**
34m SW	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	2

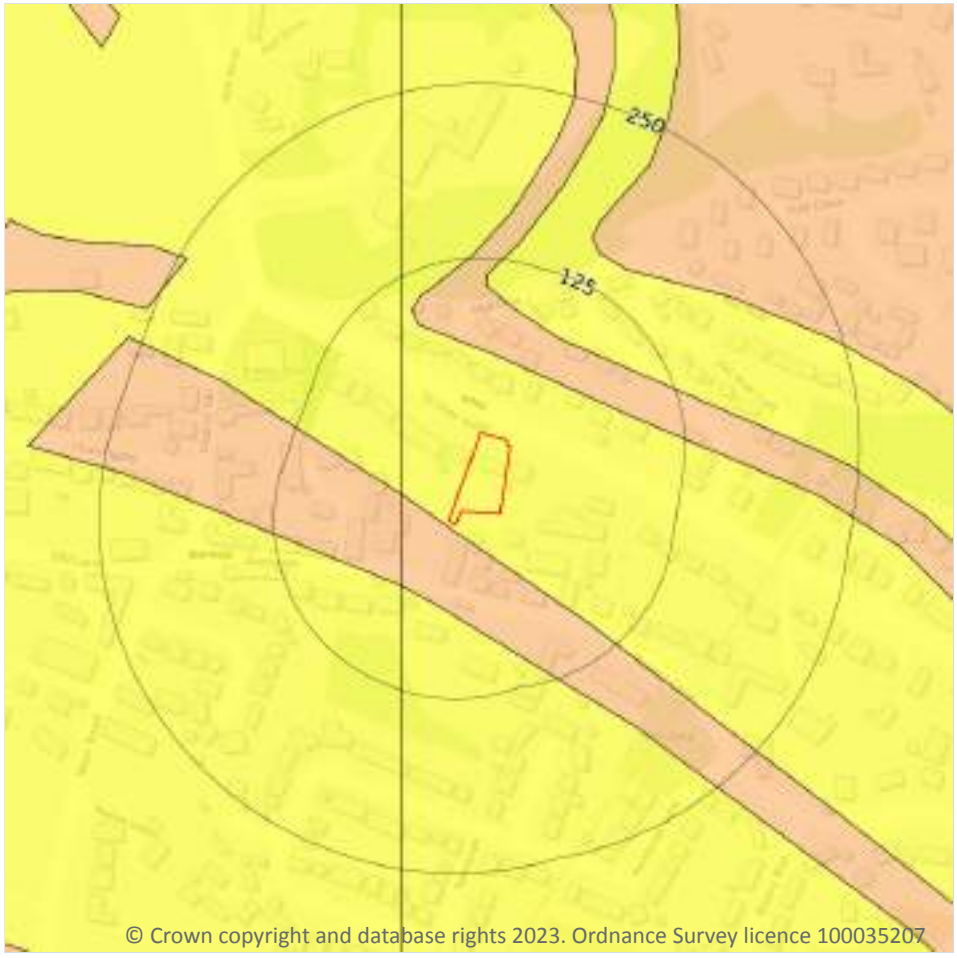
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 83 >**

Location	Hazard rating	Details
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely to be present.**
34m SW	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m	4

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.

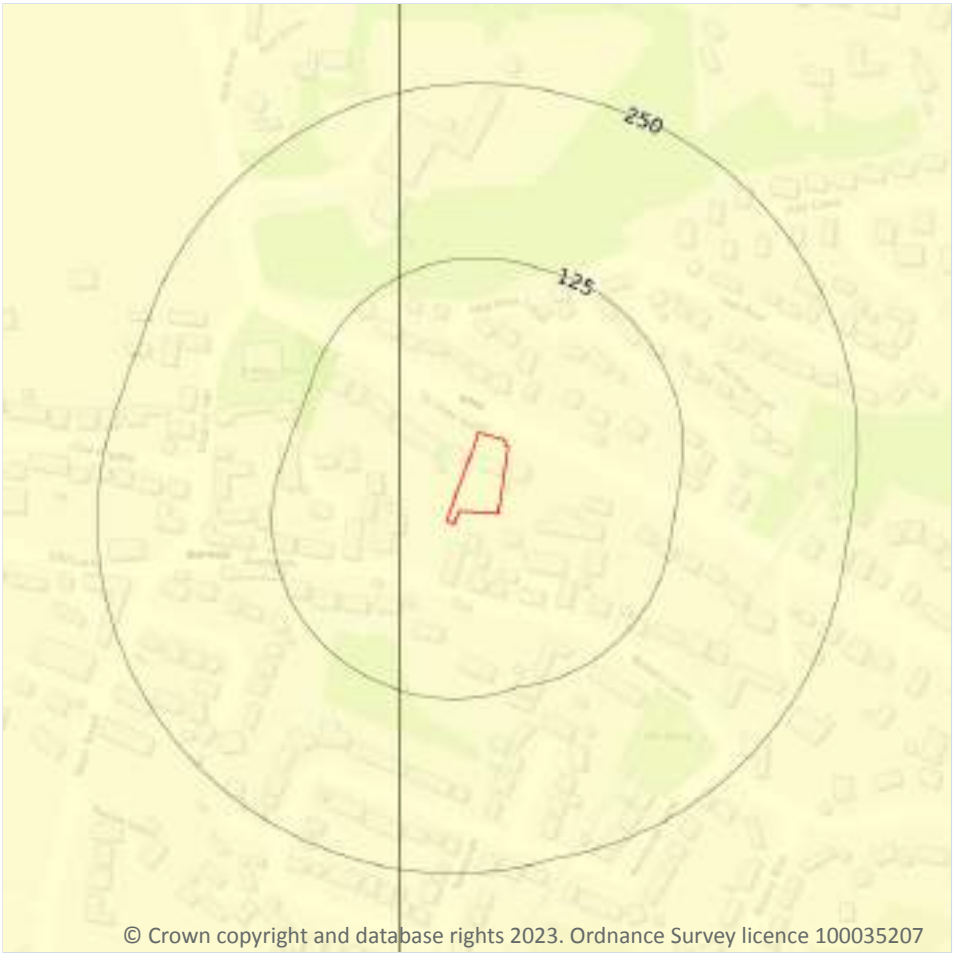
Features are displayed on the Natural ground subsidence - Landslides map on **page 84 >**

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

Location	Hazard rating	Details
4m SW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
34m SW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
39m W	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



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	2

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

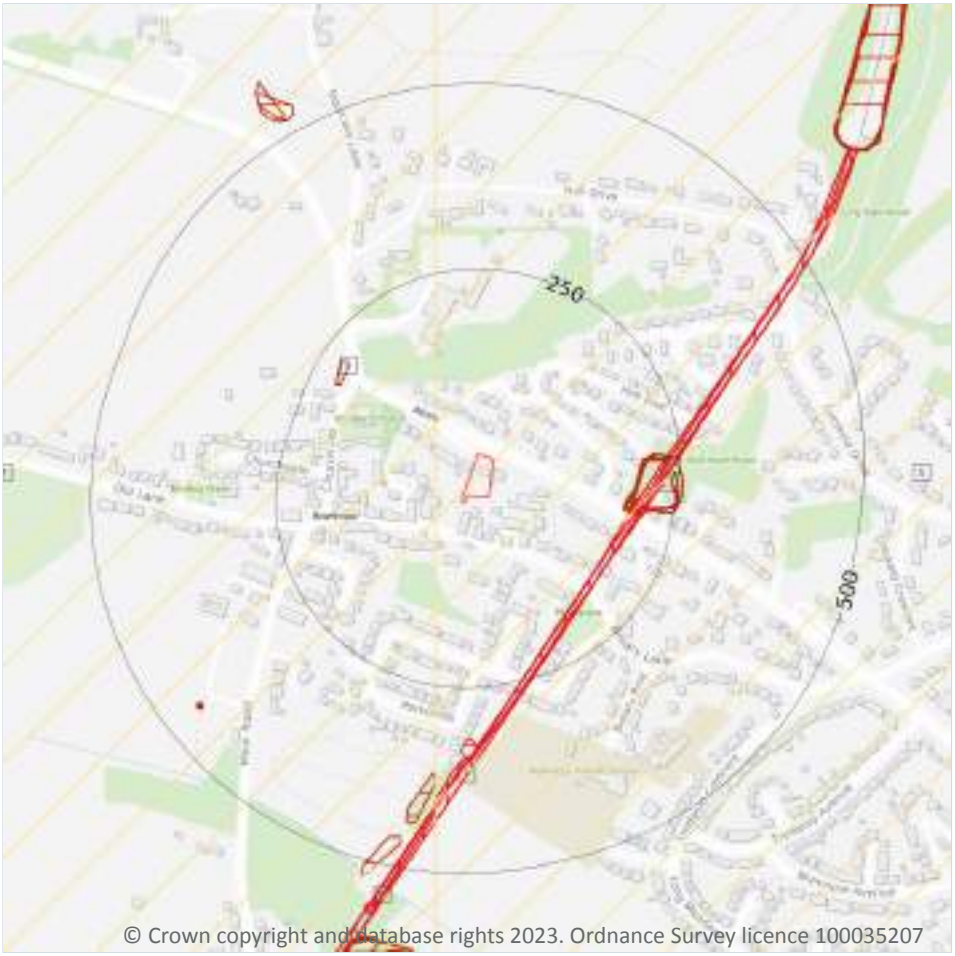
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 86 >**

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

Location	Hazard rating	Details
34m SW	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.

18 Mining, ground workings and natural cavities



Site Outline

Search buffers in metres (m)

Natural cavities (Area)

Natural cavities (Point)

BritPits

Surface ground workings

Underground workings

Historical Mineral Planning Areas

Mining Cavities

Non Coal Mining

Sporadic underground mining of restricted extent possible

Localised small scale underground mining possible

Small scale mining possible

Underground mining known or likely within or in close proximity

Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m	0

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.

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m	9

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 88 >**

ID	Location	Land Use	Year of mapping	Mapping scale
C	183m E	Unspecified Heap	1968	1:10560
C	183m E	Unspecified Heap	1980	1:10000
C	183m E	Unspecified Heap	1955	1:10560
C	183m E	Unspecified Heap	1938	1:10560
C	183m E	Unspecified Heap	1906	1:10560
C	183m E	Unspecified Heap	1891	1:10560
C	190m E	Unspecified Heap	1934	1:10560
C	190m E	Unspecified Heap	1934	1:10560
3	208m NW	Unspecified Ground Workings	1967	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m	26

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 88 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	174m SE	Tunnel	1891	1:10560
A	174m SE	Tunnel	1938	1:10560
A	174m SE	Tunnel	1906	1:10560
B	175m SE	Tunnel	1990	1:10000
B	175m SE	Tunnel	1968	1:10560
B	175m SE	Tunnel	1980	1:10000
B	175m SE	Tunnel	1953	1:10560
C	194m E	Unspecified Shaft	1891	1:10560
C	194m E	Air Shaft	1938	1:10560
C	194m E	Air Shaft	1906	1:10560
C	202m E	Unspecified Shaft	1990	1:10000
C	202m E	Unspecified Shaft	1968	1:10560
C	202m E	Unspecified Shaft	1980	1:10000
C	202m E	Air Shaft	1953	1:10560
D	414m S	Tunnel	1990	1:10000
D	414m S	Tunnel	1950	1:10560
D	414m S	Tunnel	1967	1:10560
D	551m S	Air Shaft	1990	1:10000
D	551m S	Air Shaft	1967	1:10560
D	554m S	Unspecified Shaft	1891	1:10560
D	554m S	Air Shaft	1938	1:10560
D	554m S	Air Shaft	1906	1:10560
D	556m S	Air Shaft	1950	1:10560
-	722m S	Tunnel	1990	1:10000
-	722m S	Tunnel	1950	1:10560
-	722m S	Tunnel	1967	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	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 88 >**

ID	Location	Name	Commodity	Class	Likelihood
1	**On site**	**Not available**	**Vein Mineral**	**A**	**Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered**
2	34m SW	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	0

Areas which could be affected by past, current or future coal mining.

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 Groundsure.

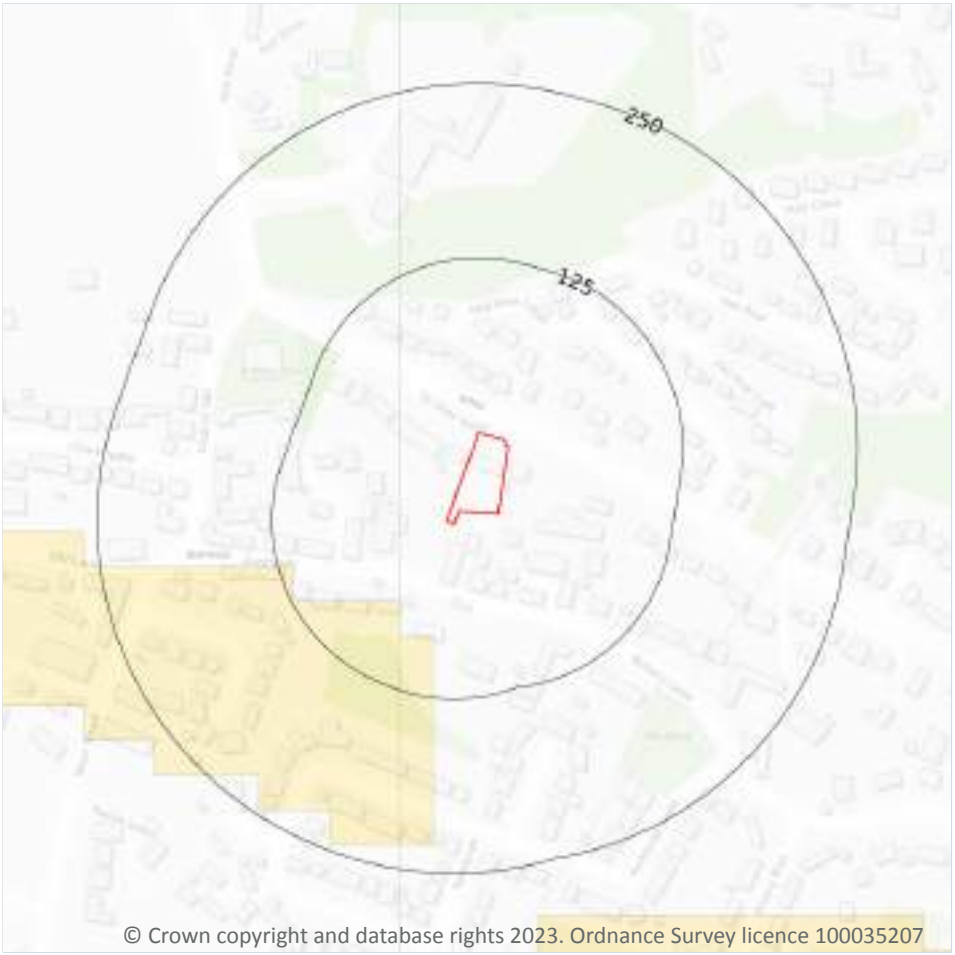
18.13 Clay mining

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



Site Outline

Search buffers in metres (m)

Greater than 30%

Between 10% and 30%

Between 5% and 10%

Between 3% and 5%

Between 1% and 3%

Less than 1%

19.1 Radon

Records on site	1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on **page 94 >**

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

This data is sourced from the British Geological Survey and UK Health Security Agency.

20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m	6

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 km^2. 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 km^2; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 mg/kg**
4m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
34m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
34m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
39m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
39m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 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 km^2).

This data is sourced from the British Geological Survey.

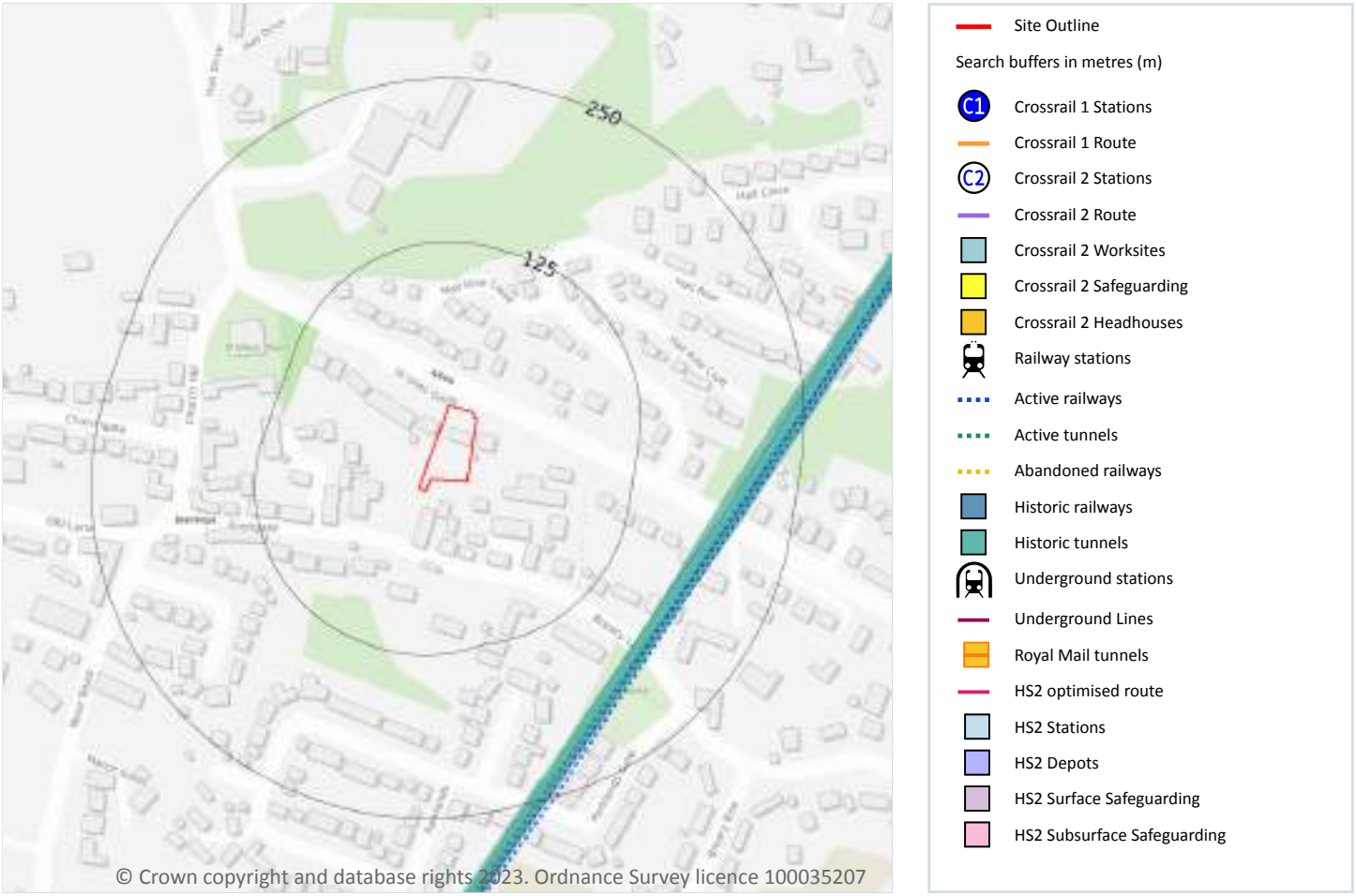
20.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km^2.

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	1

Railway tunnels taken from contemporary Ordnance Survey mapping.

Features are displayed on the Railway infrastructure and projects map on **page 98 >**

Location	Type
183m SE	Railway Tunnel

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m	18

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 98 >**

Location	Land Use	Year of mapping	Mapping scale
174m SE	Tunnel	1891	10560
174m SE	Tunnel	1938	10560
174m SE	Tunnel	1906	10560
175m SE	Tunnel	1990	10000
175m SE	Tunnel	1968	10560
175m SE	Tunnel	1980	10000
175m SE	Tunnel	1955	10560
175m SE	Tunnel	1934	10560
178m SE	Tunnel	1993	2500
178m SE	Tunnel	1974	2500
178m SE	Tunnel	1982	2500
178m SE	Tunnel	1995	2500
179m SE	Tunnel	1957	2500

Location	Land Use	Year of mapping	Mapping scale
179m SE	Tunnel	1992	2500
180m SE	Tunnel	1964	2500
233m S	Tunnel	1908	-
234m S	Tunnel	1921	2500
234m S	Tunnel	1934	2500

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m	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	2

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

Features are displayed on the Railway infrastructure and projects map on **page 98 >**

Location	Name	Type
185m SE	Harrogate Line (Bramhope Tunnel)	rail
189m SE	Harrogate Line (Bramhope Tunnel)	rail

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

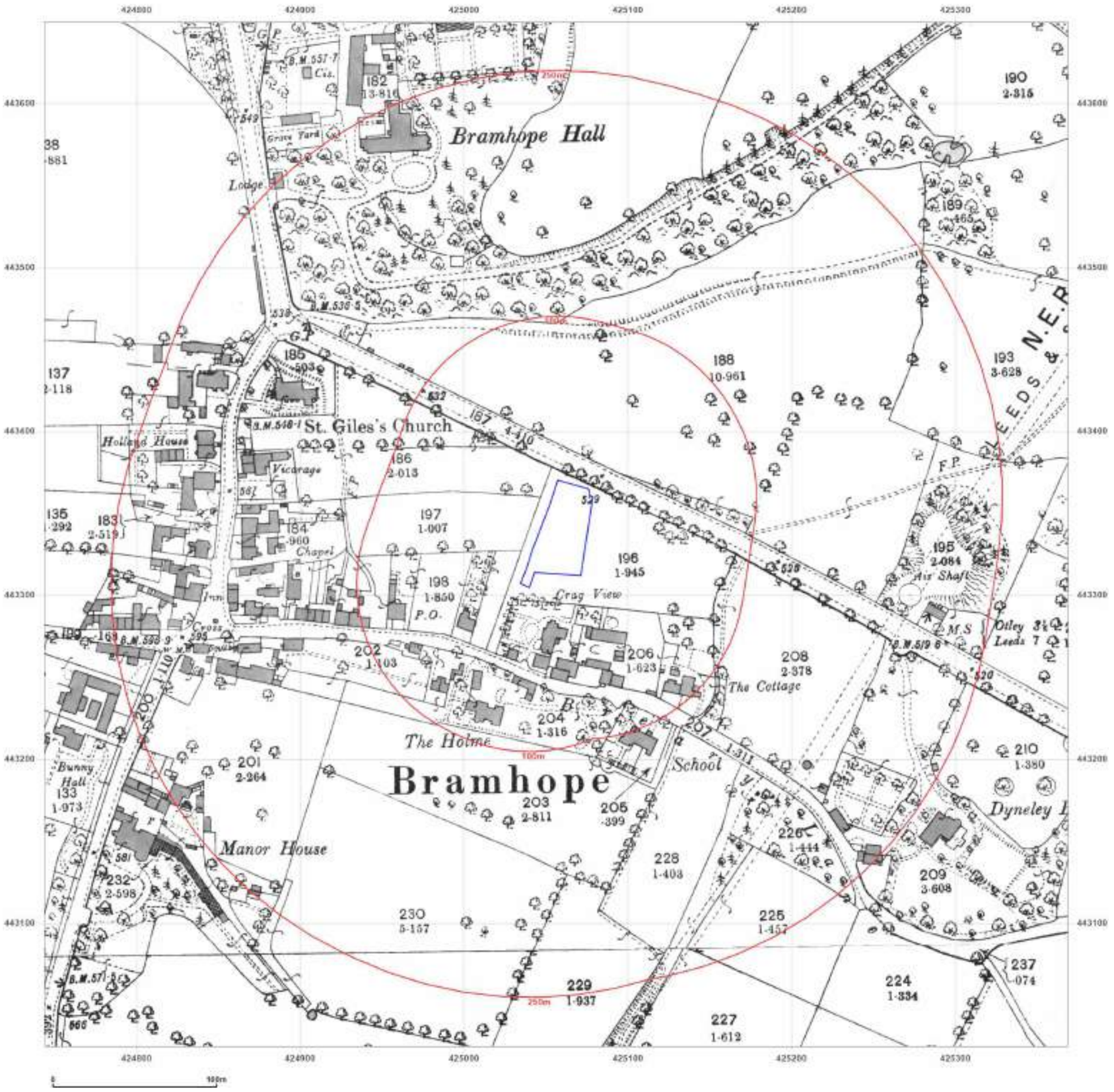
Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference ↗.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: https://www.groundsure.com/terms-and-conditions-april-2023/ ↗.

APPENDIX C

HISTORICAL MAPPING



Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

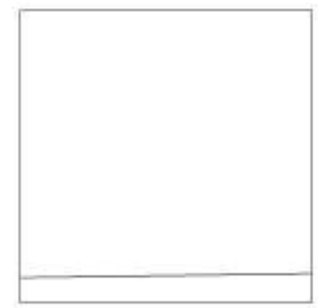
Map Name: County Series

Map date: **1893**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



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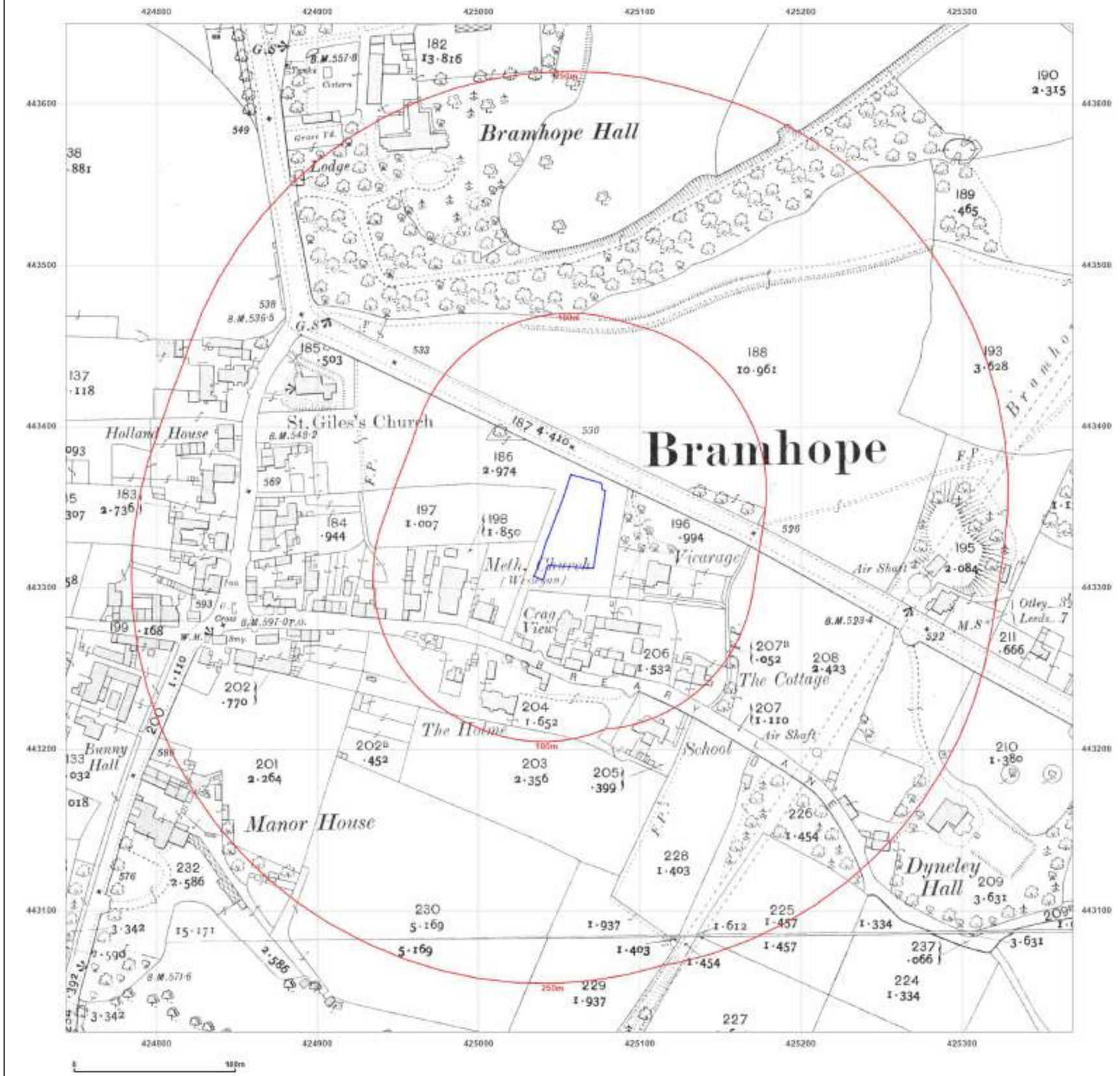
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 02 May 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: County Series

Map date: **1908**

Scale: 1:2,500

Printed at: 1:2,500

N
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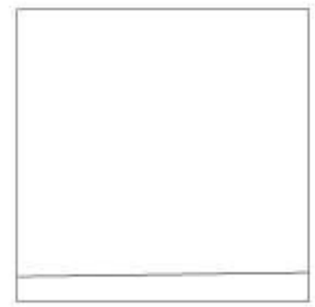

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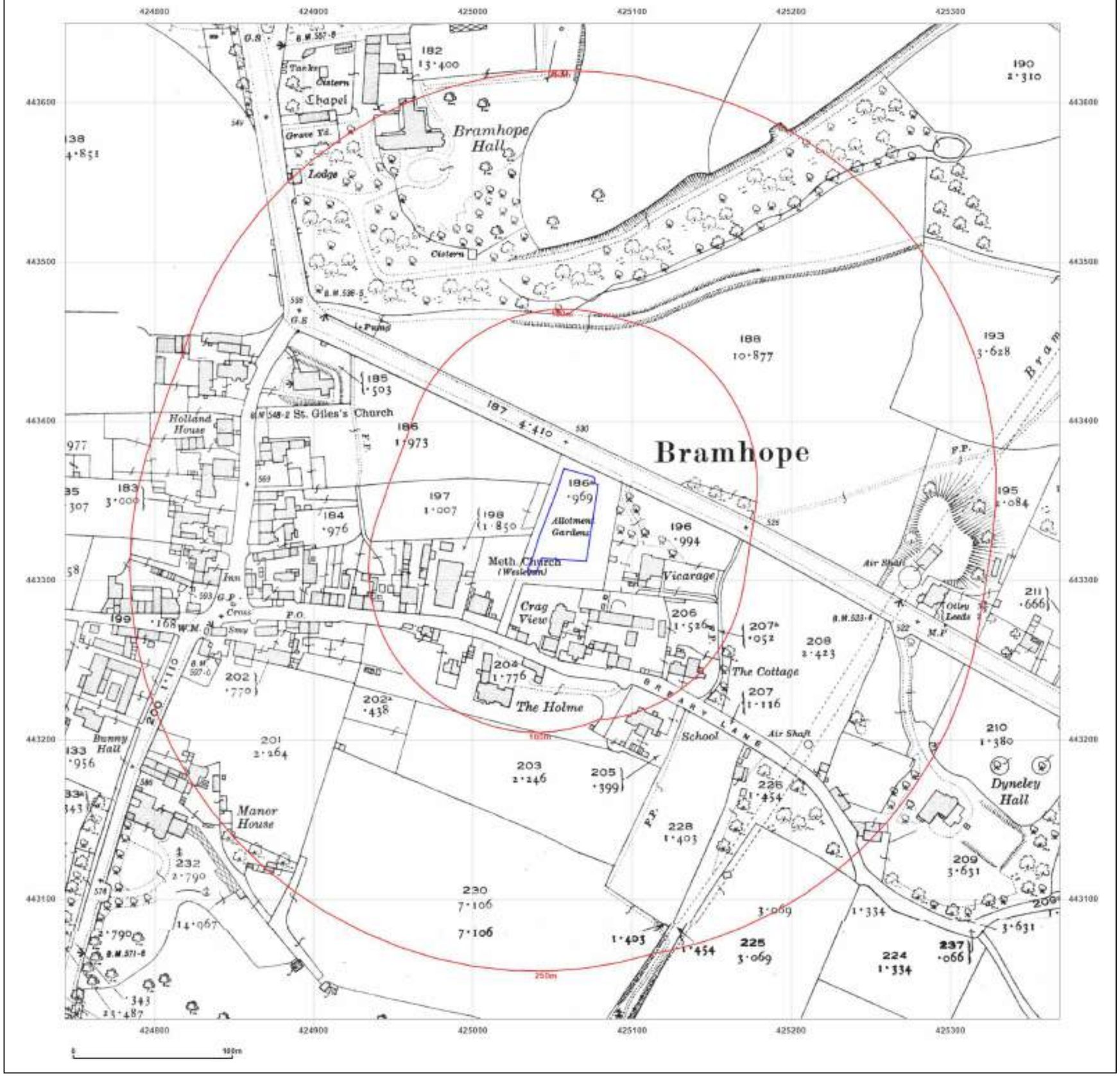
Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: County Series

Map date: **1921**

Scale: 1:2,500

Printed at: 1:2,500

N
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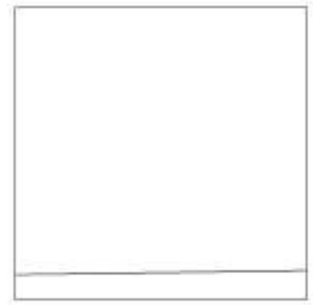
Surveyed 1921
Revised 1921
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1921
Revised 1921
Edition N/A
Copyright N/A
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Production date: 02 May 2023

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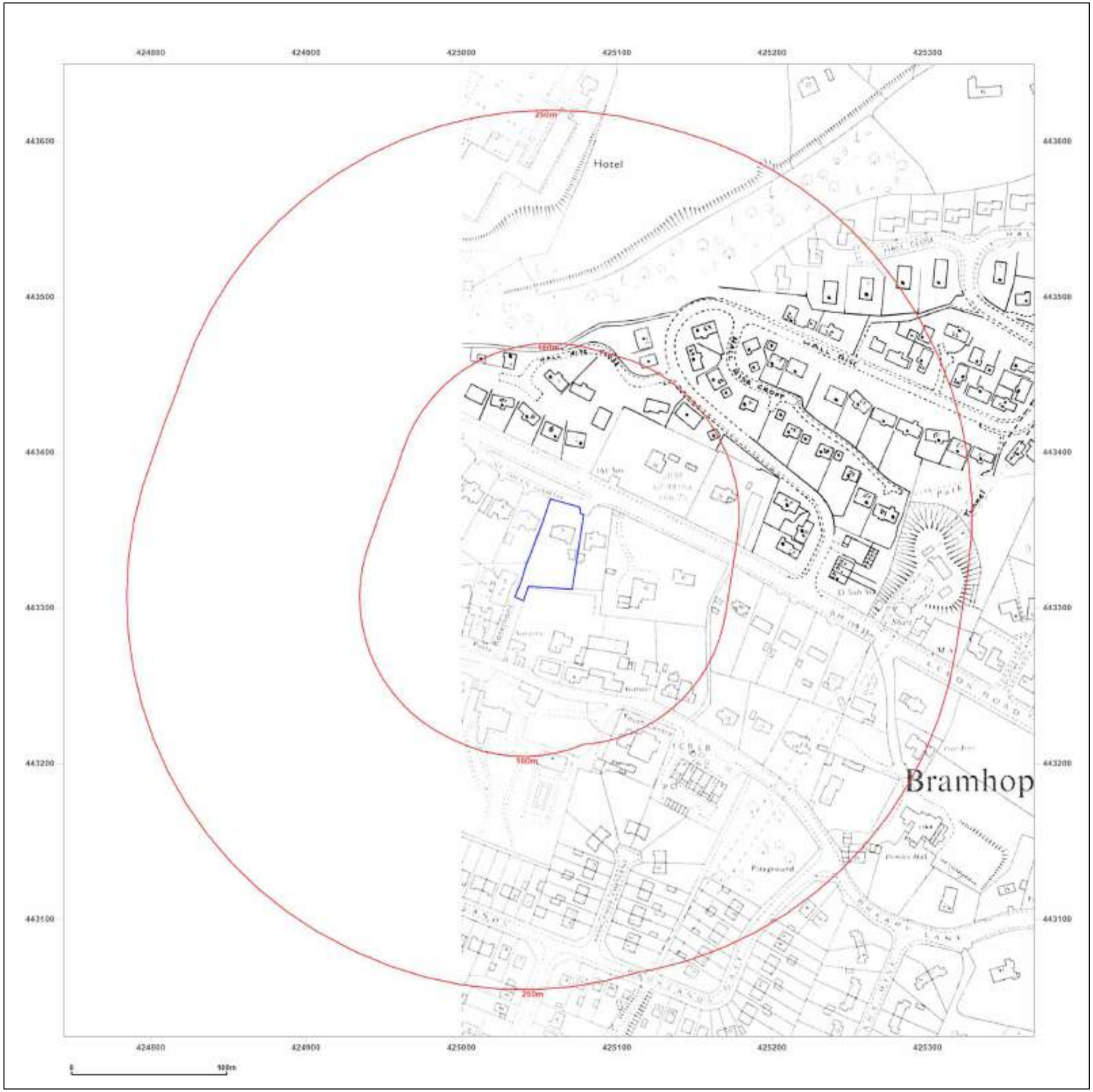

Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: National Grid

Map date: **1957**

Scale: 1:2,500

Printed at: 1:2,500

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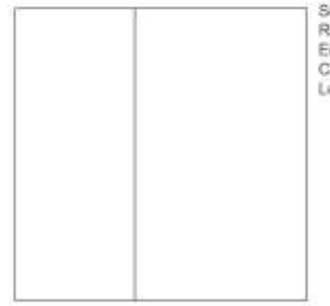

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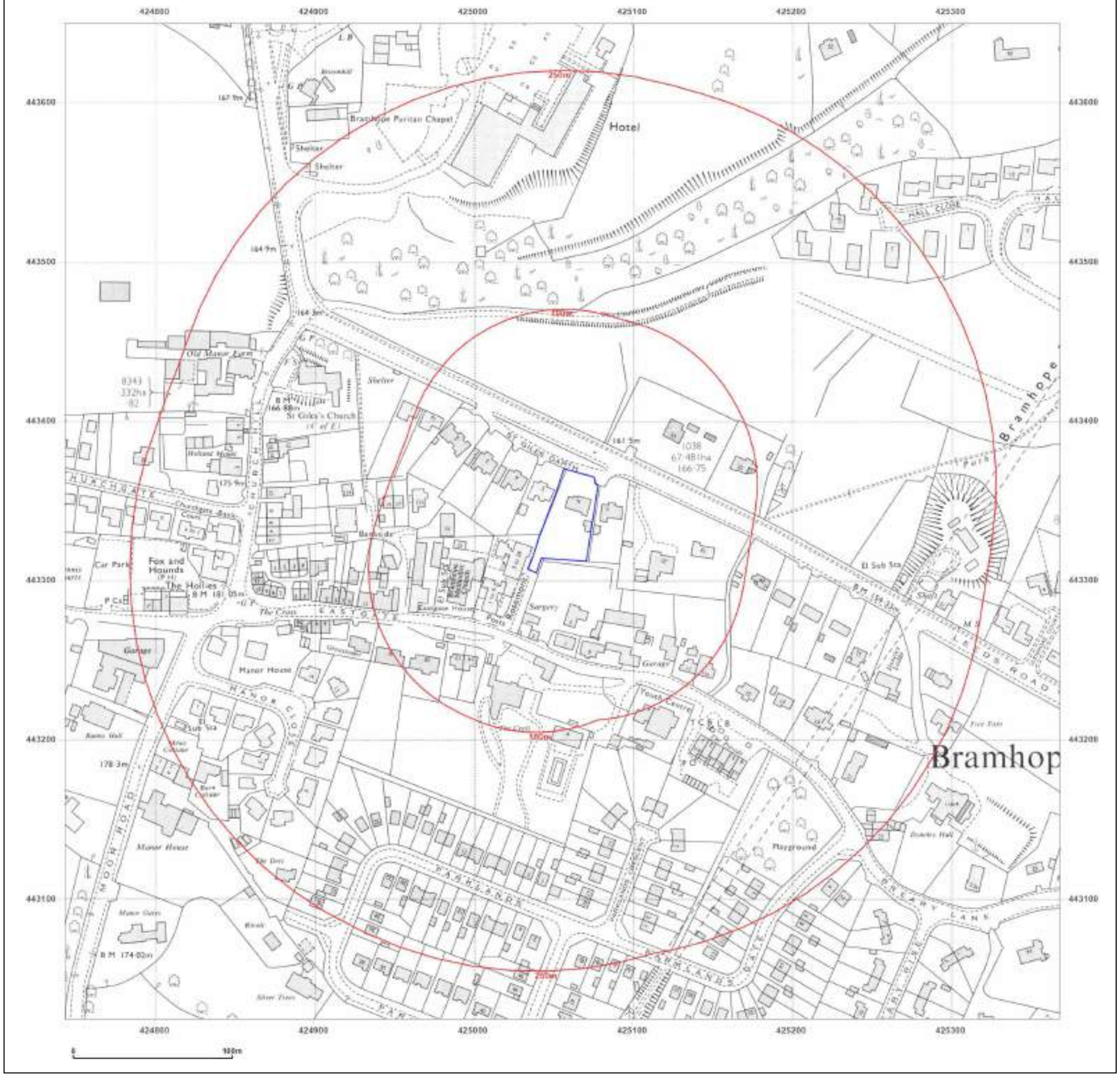

Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: National Grid

Map date: **1965**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1964
Revised 1964
Edition N/A
Copyright 1965
Levelled 1962

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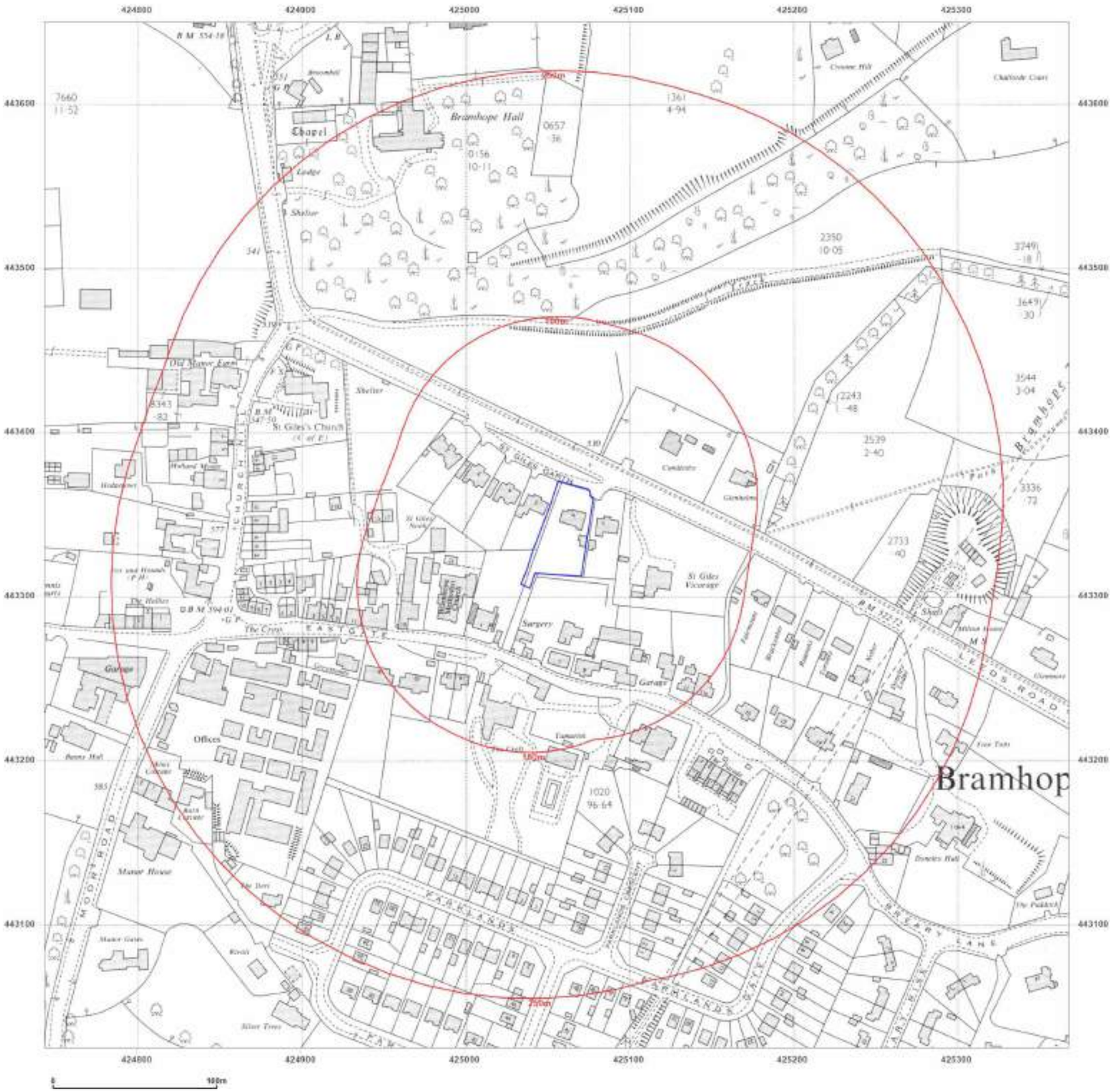

Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: National Grid

Map date: **1965**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1964
Revised 1964
Edition N/A
Copyright 1965
Levelled 1962

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Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: National Grid

Map date: **1965**

Scale: 1:2,500

Printed at: 1:2,500

N
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S

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

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Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: National Grid

Map date: **1977**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed N/A
Revised 1975
Edition N/A
Copyright 1977
Levelled N/A

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

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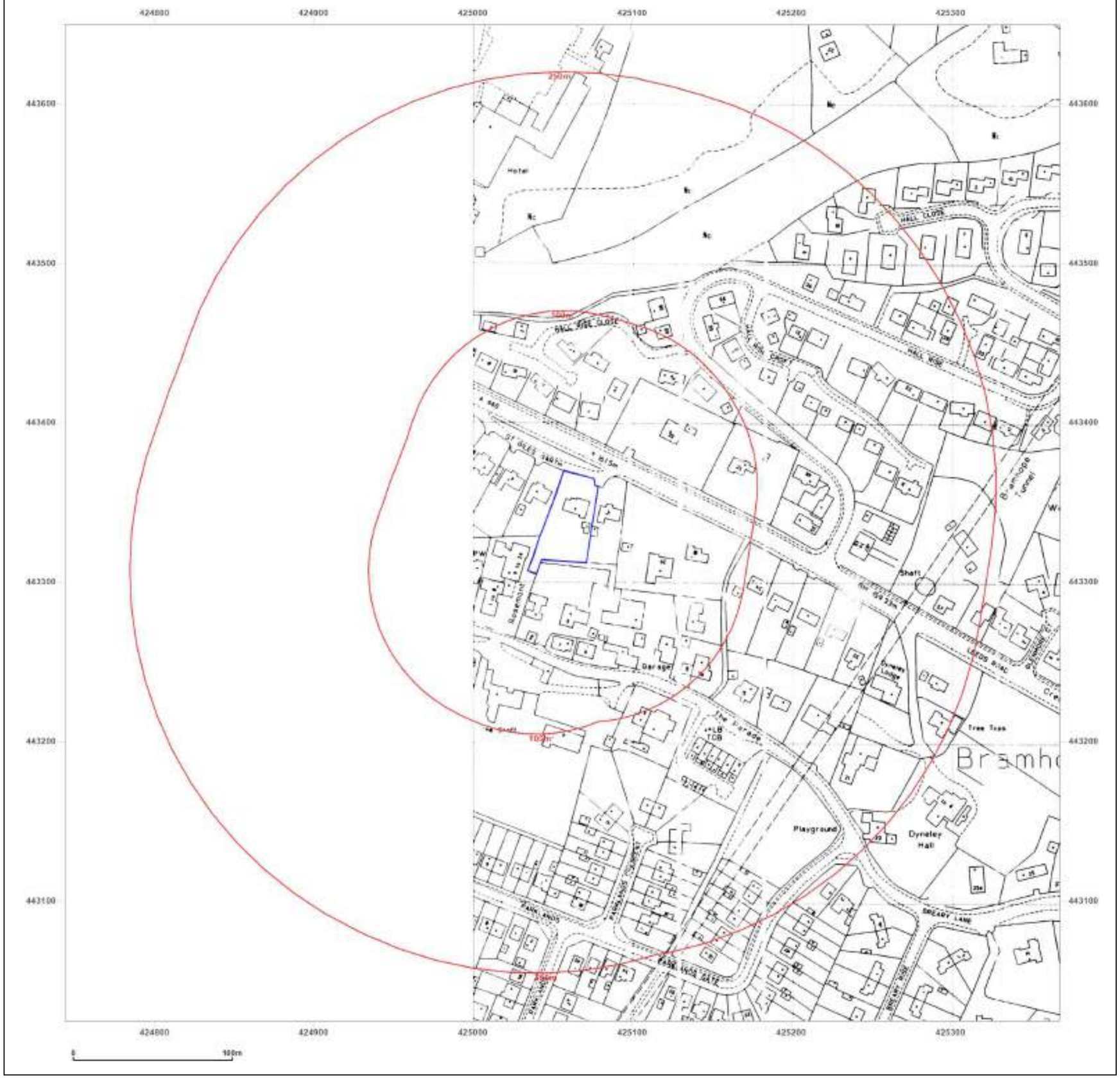

Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: National Grid

Map date: **1992**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1992
Levelled N/A

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Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: National Grid

Map date: **1992**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1964
Revised 1964
Edition N/A
Copyright 1992
Levelled N/A

Surveyed 1963
Revised 1963
Edition N/A
Copyright 1992
Levelled N/A

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Site Details:

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Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: National Grid

Map date: **1992-1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1992
Revised N/A
Edition N/A
Copyright 1992
Levelled N/A

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

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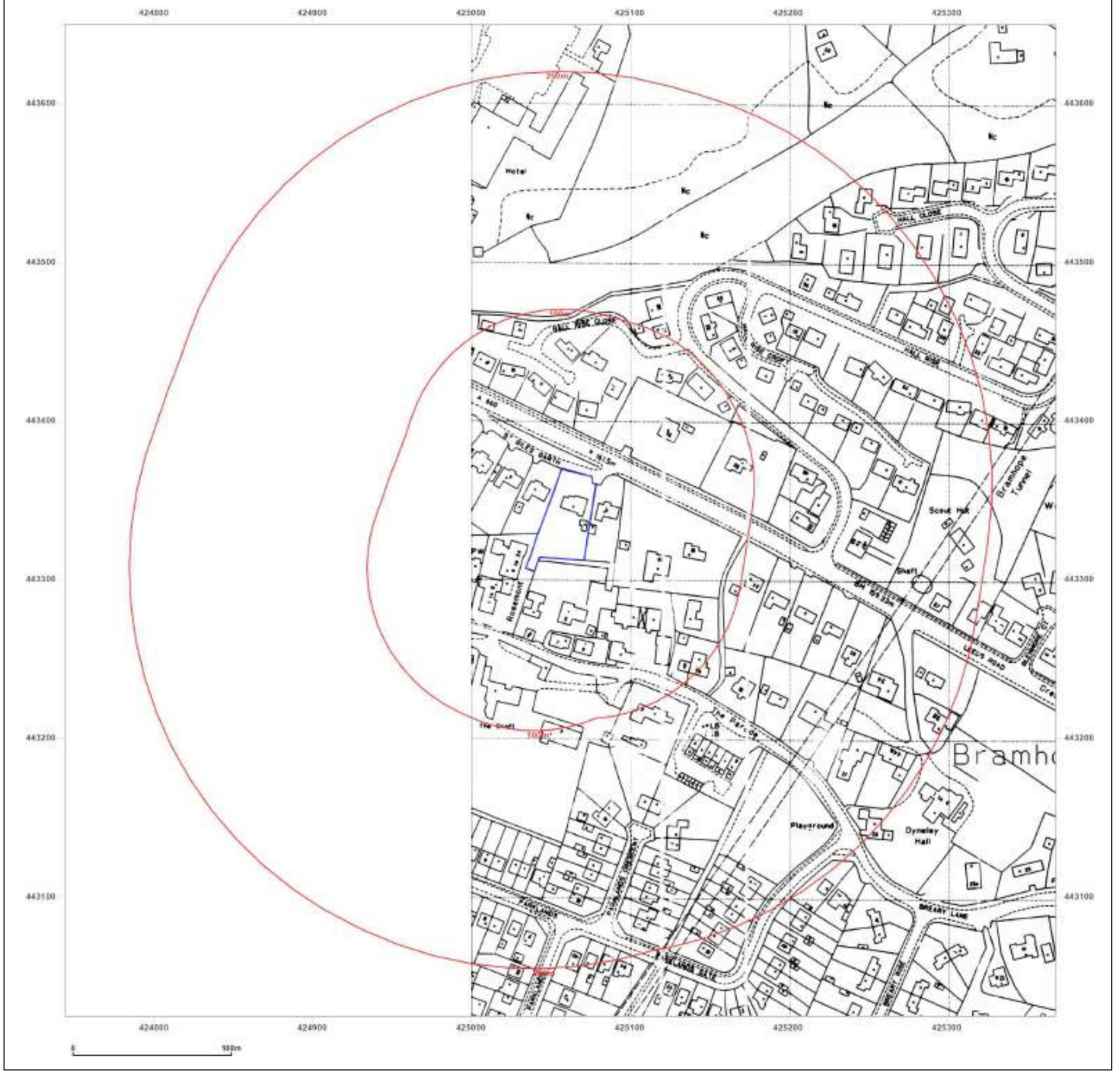

Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

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

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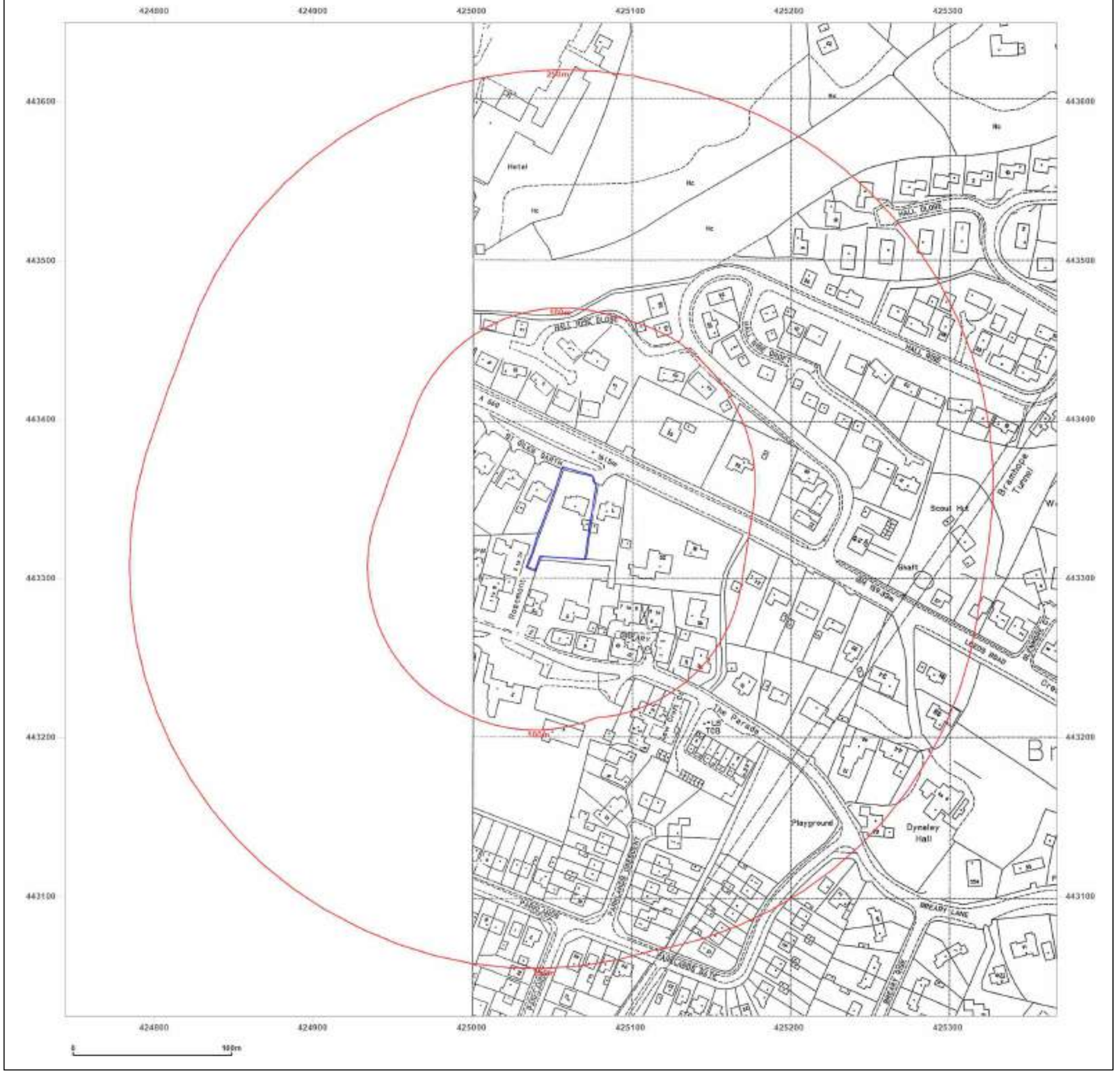

Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: National Grid

Map date: **1995**

Scale: 1:2,500

Printed at: 1:2,500

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

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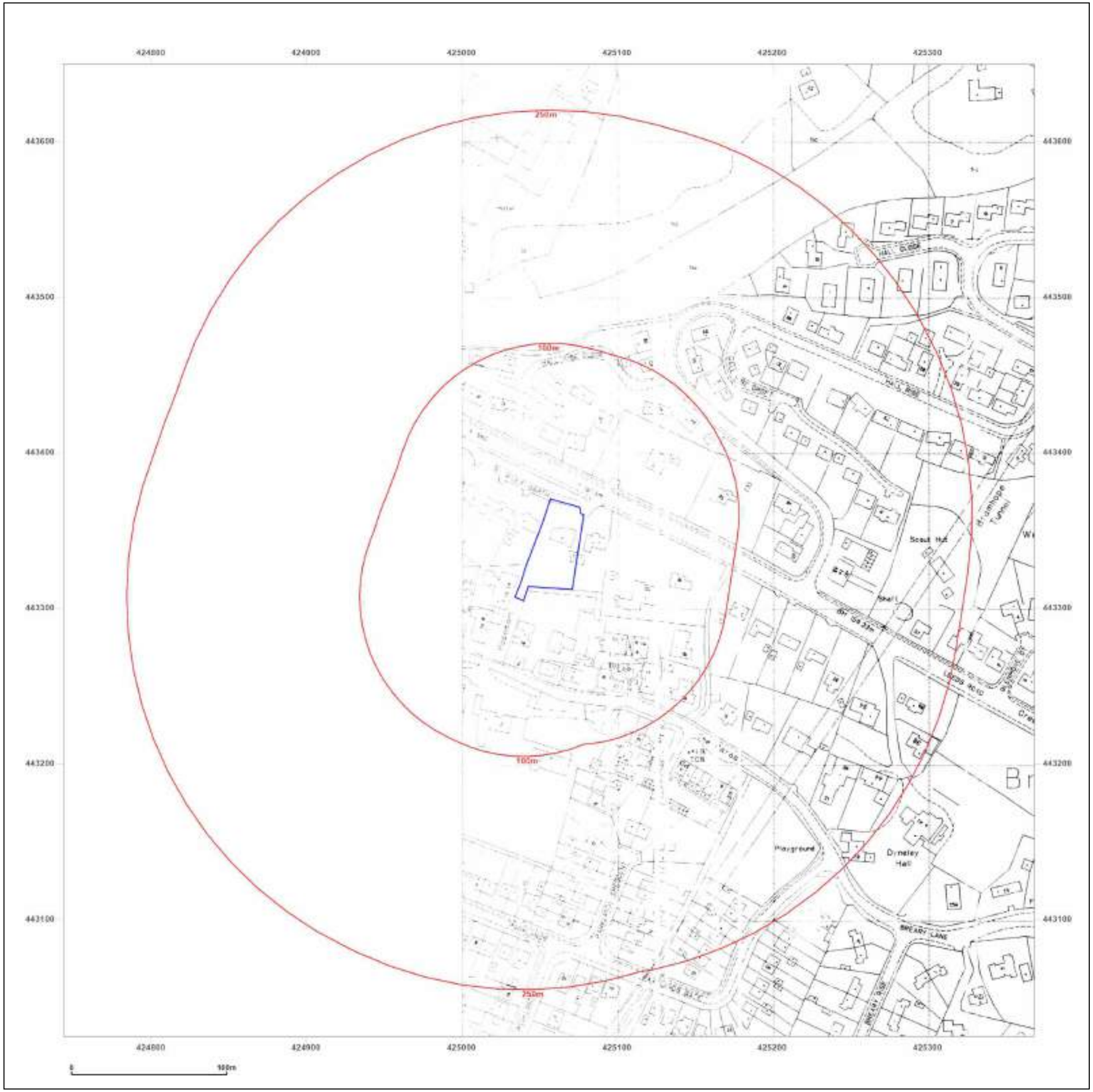

Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: National Grid

Map date: **1995**

Scale: 1:2,500

Printed at: 1:2,500

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

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Site Details:

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Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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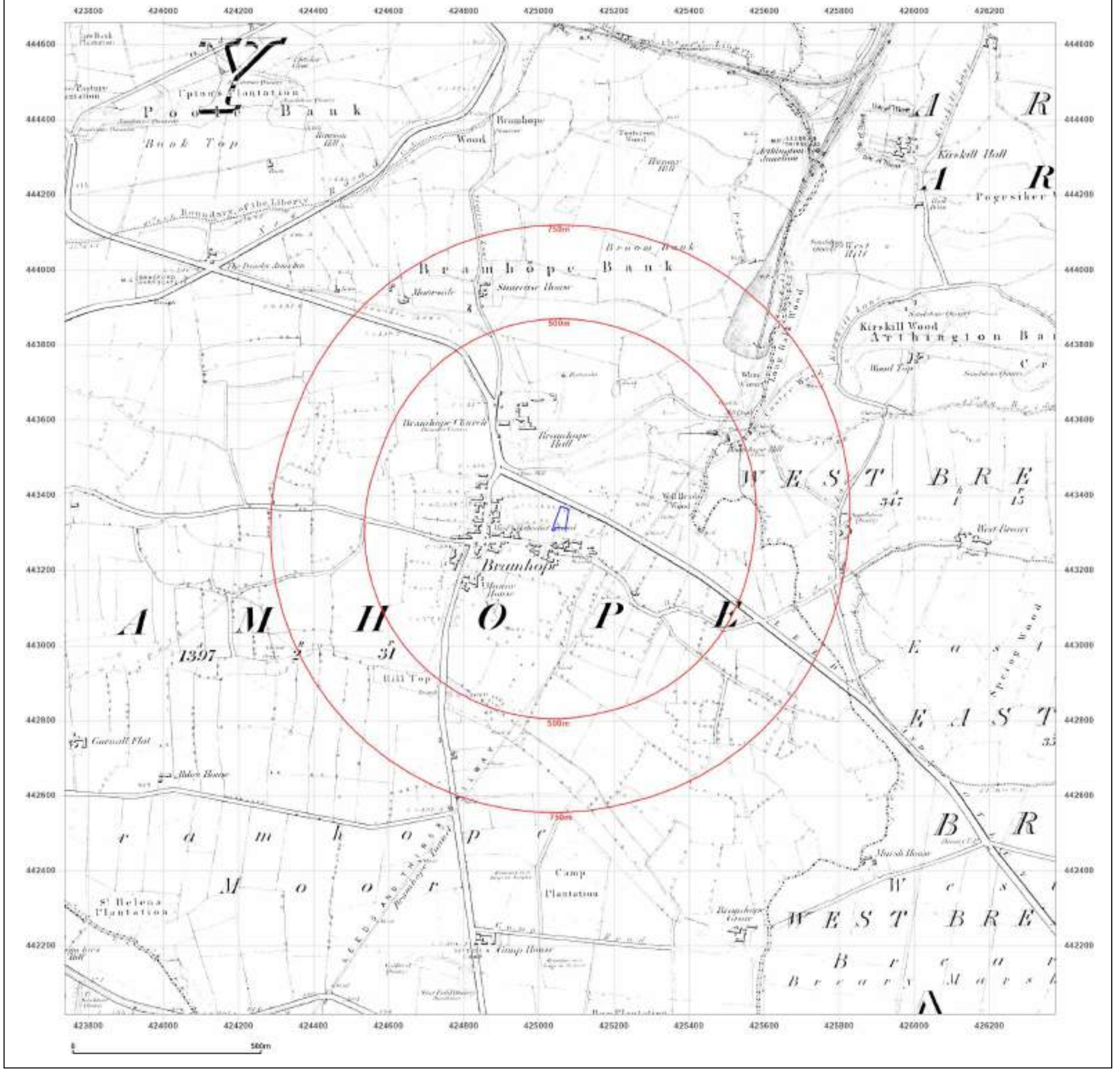

Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: County Series

Map date: **1851**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1848
Revised N/A
Edition 1851
Copyright N/A
Levelled N/A

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Production date: 02 May 2023

Map legend available at:
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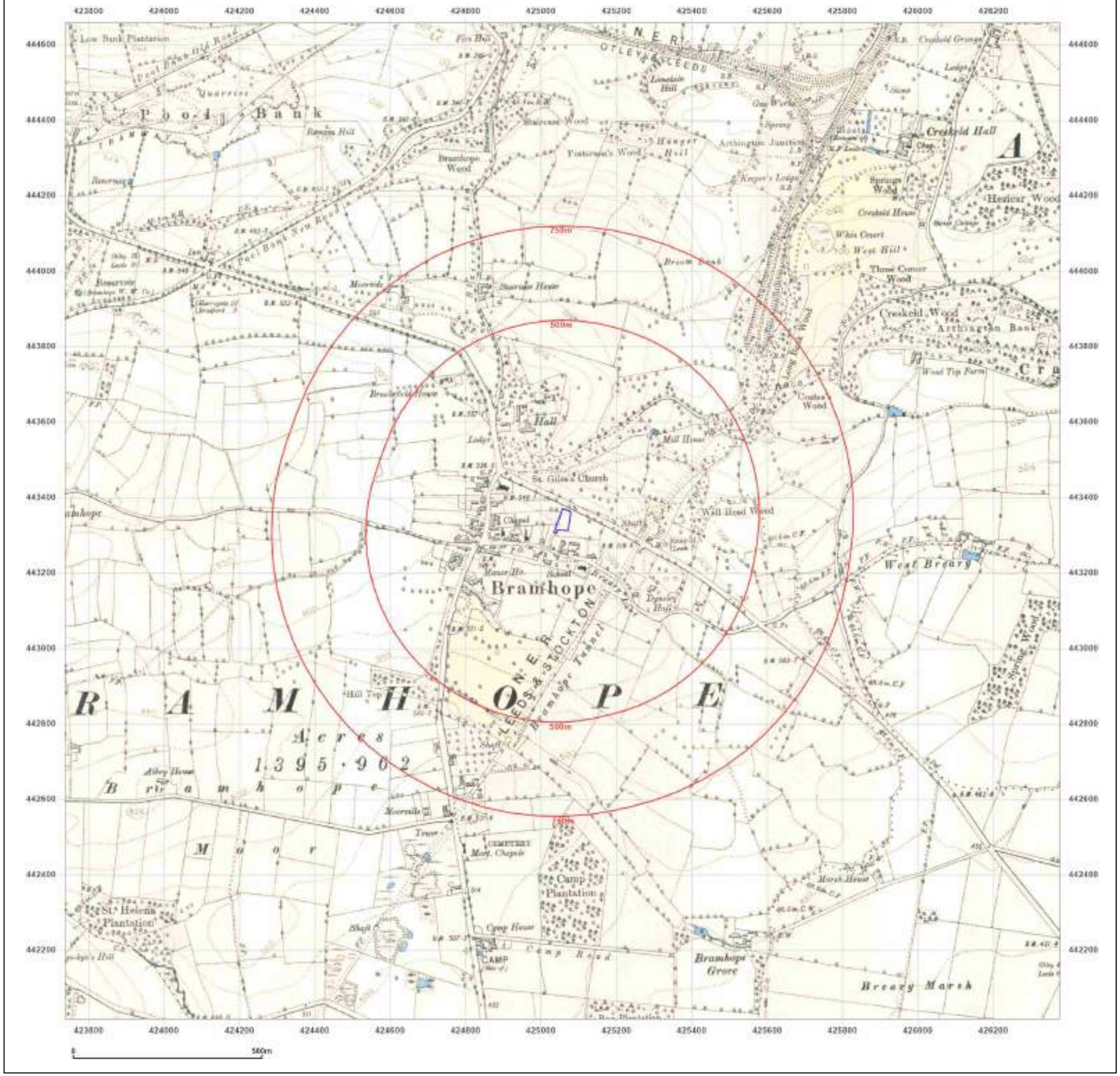

Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: County Series

Map date: **1891**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1891
Revised 1891
Edition N/A
Copyright N/A
Levelled N/A

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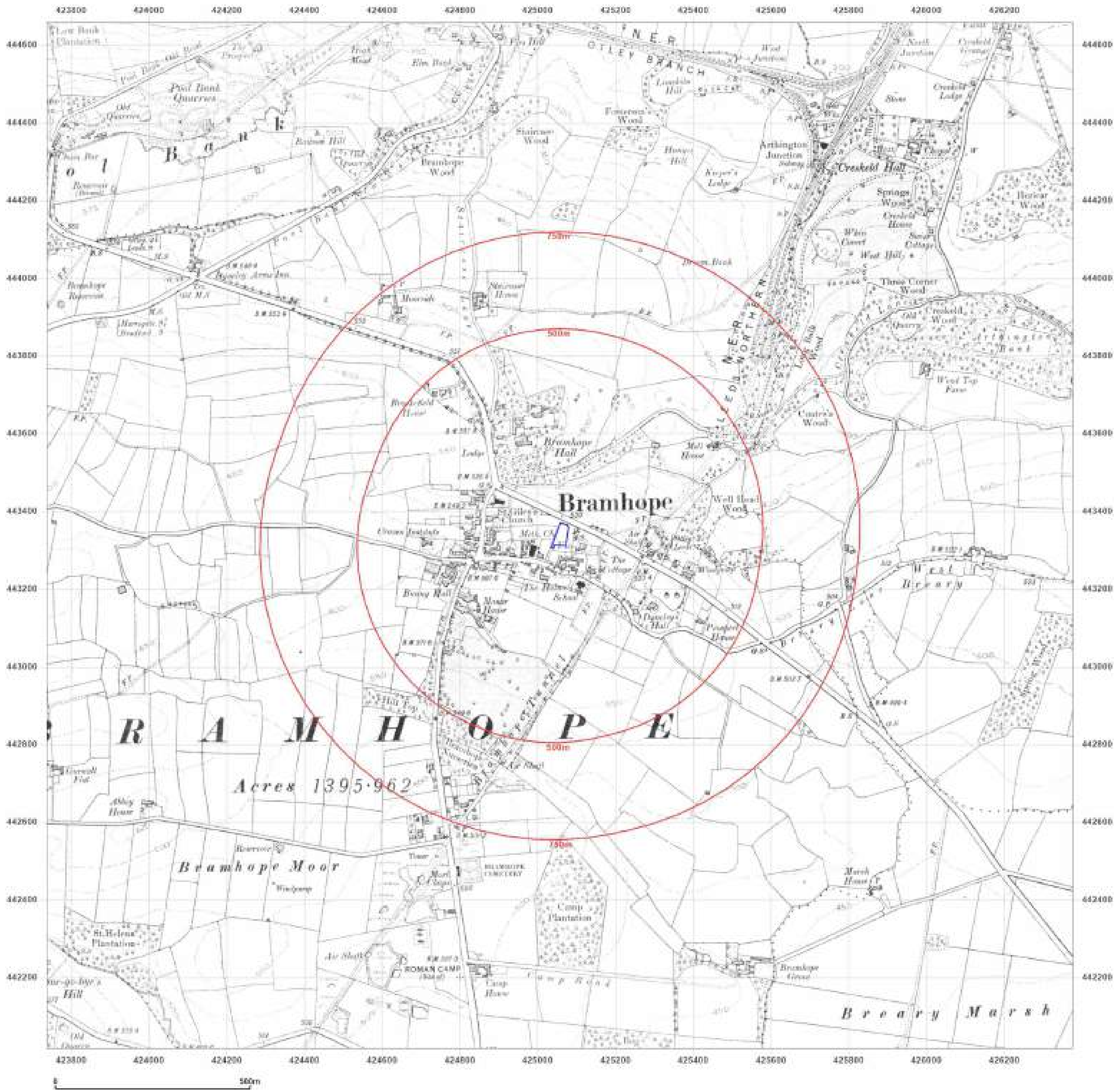

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: County Series

Map date: **1906**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1848
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

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Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: County Series

Map date: **1934**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1848
Revised 1934
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

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Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1848
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

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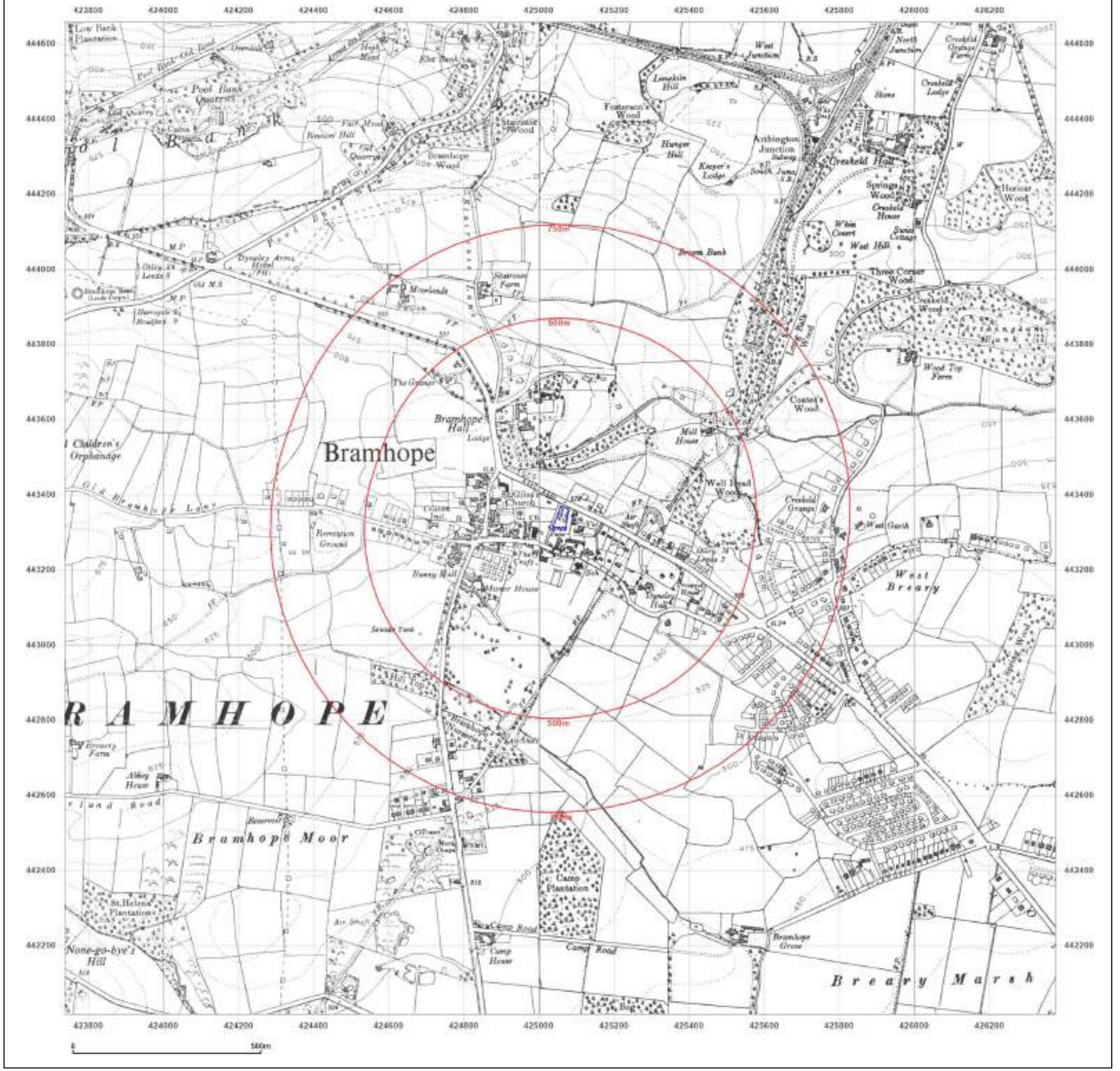

Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: Provisional
Map date: **1956**
Scale: 1:10,560
Printed at: 1:10,560

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Surveyed 1950	Surveyed N/A
Revised 1955	Revised 1955
Edition N/A	Edition 1956
Copyright 1956	Copyright N/A
Levelled N/A	Levelled N/A

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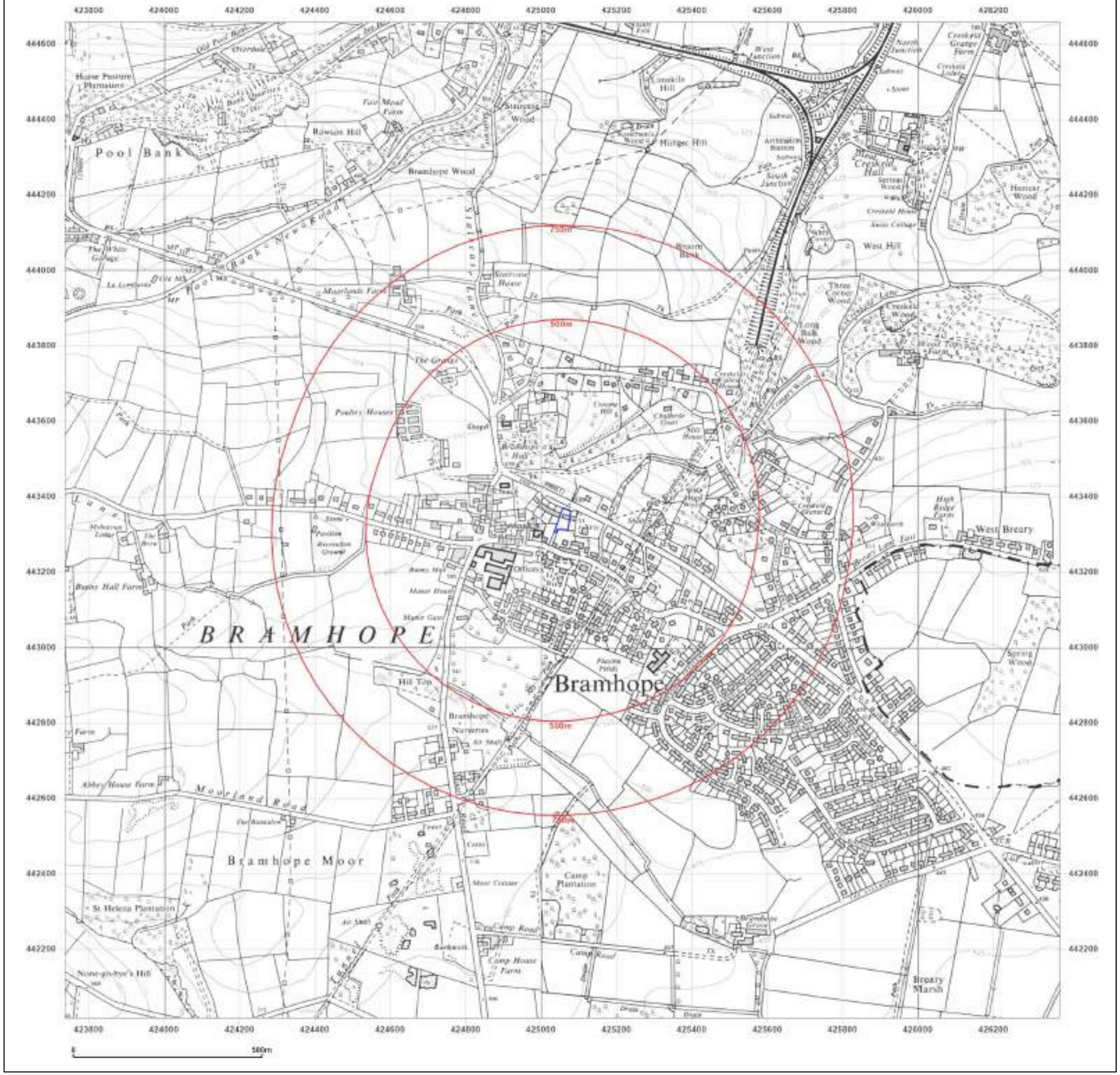

Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: Provisional

Map date: **1967-1968**

Scale: 1:10,560

Printed at: 1:10,560

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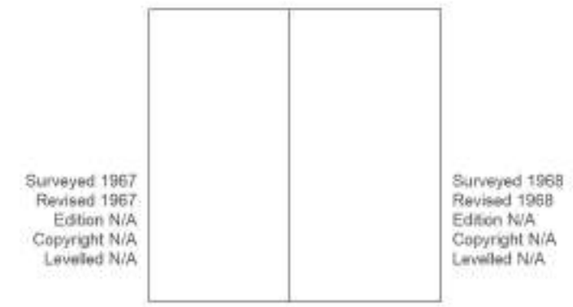

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Production date: 02 May 2023

Map legend available at:
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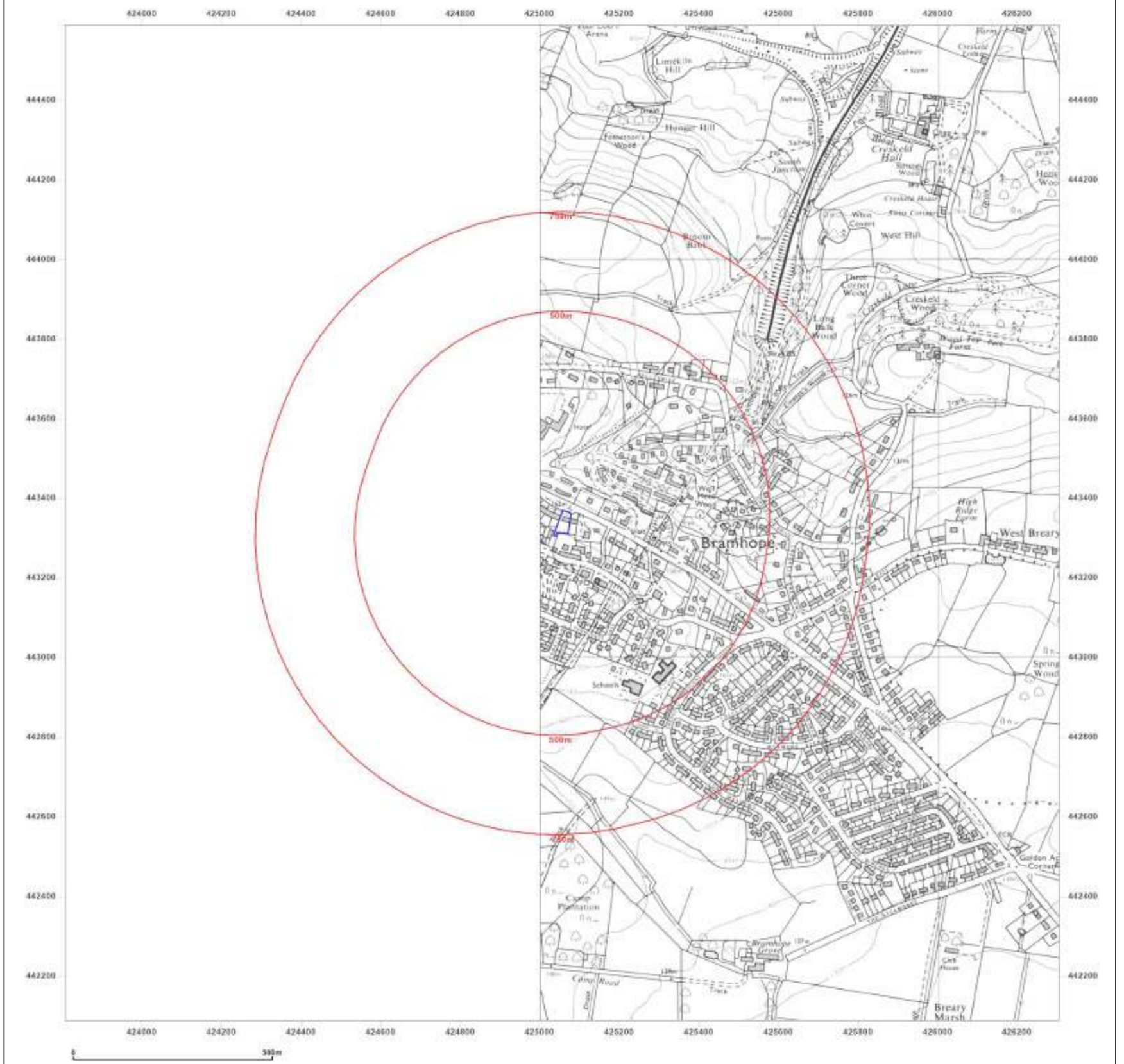

Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: National Grid

Map date: **1980**

Scale: 1:10,000

Printed at: 1:10,000

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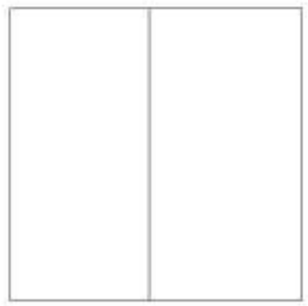

Surveyed 1978
Revised 1980
Edition N/A
Copyright N/A
Levelled N/A

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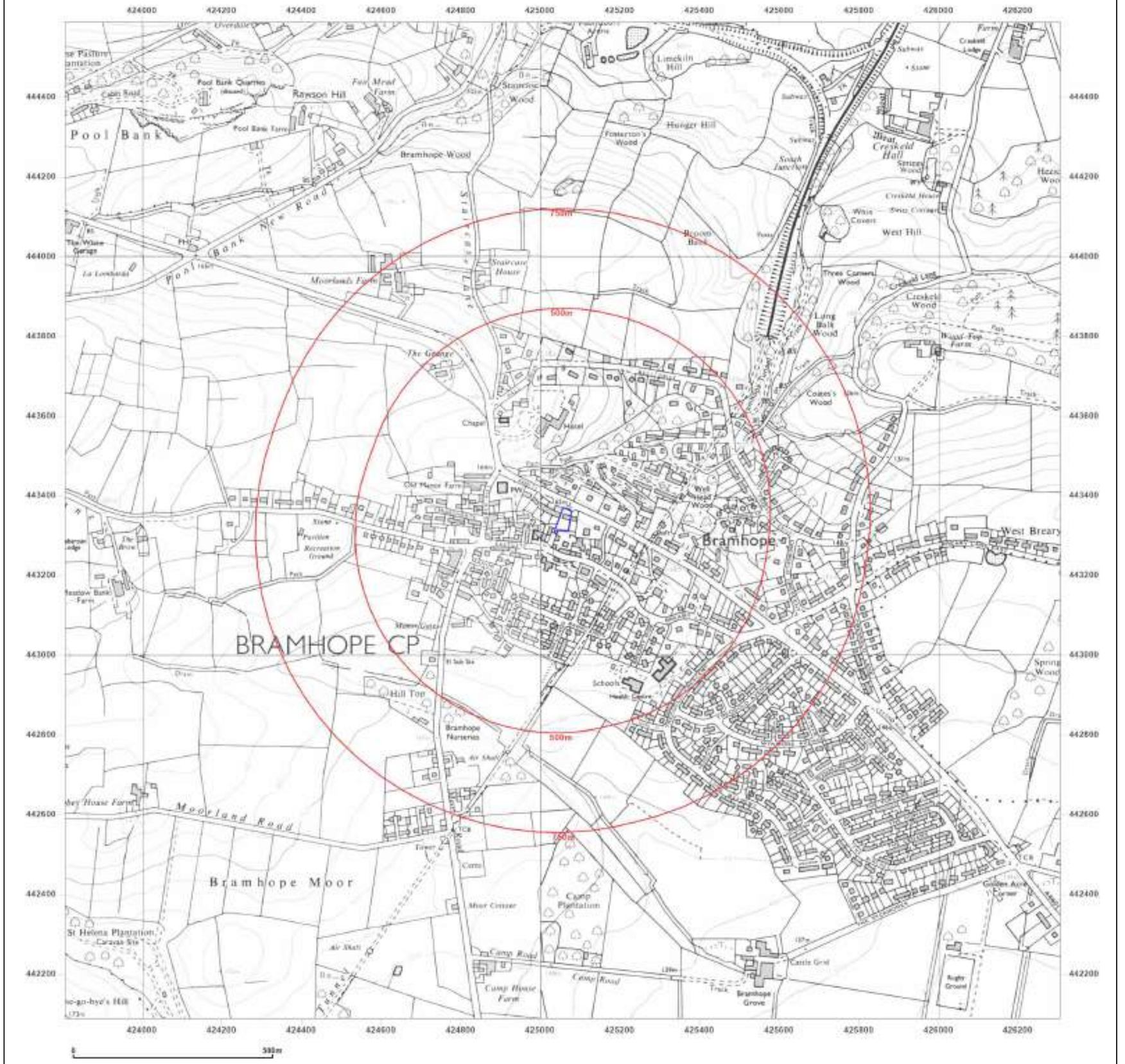

Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: National Grid

Map date: **1990**

Scale: 1:10,000

Printed at: 1:10,000

N
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Surveyed 1989
Revised 1990
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1989
Revised 1990
Edition N/A
Copyright N/A
Levelled N/A

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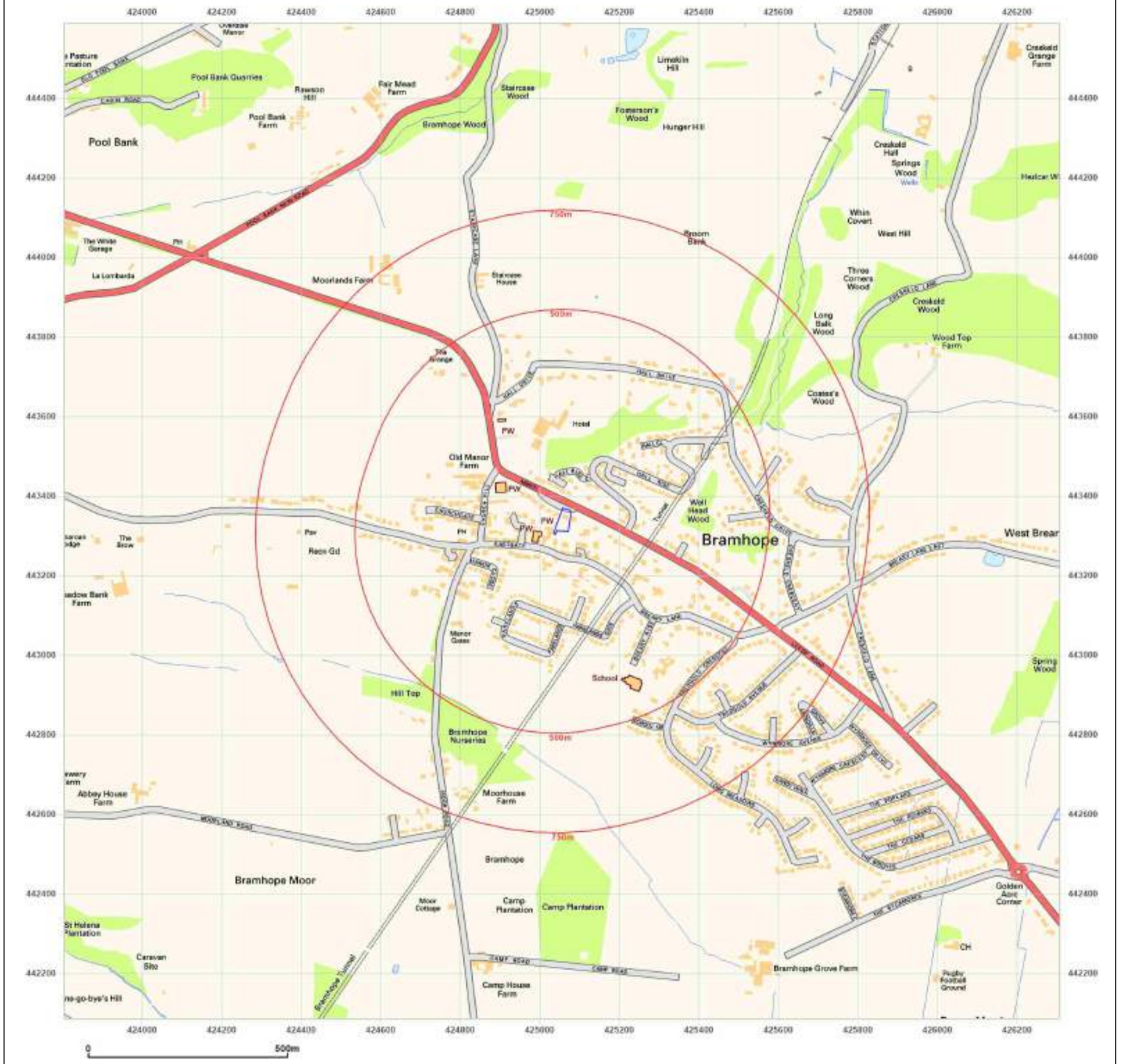

Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

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2001

Powered by OS

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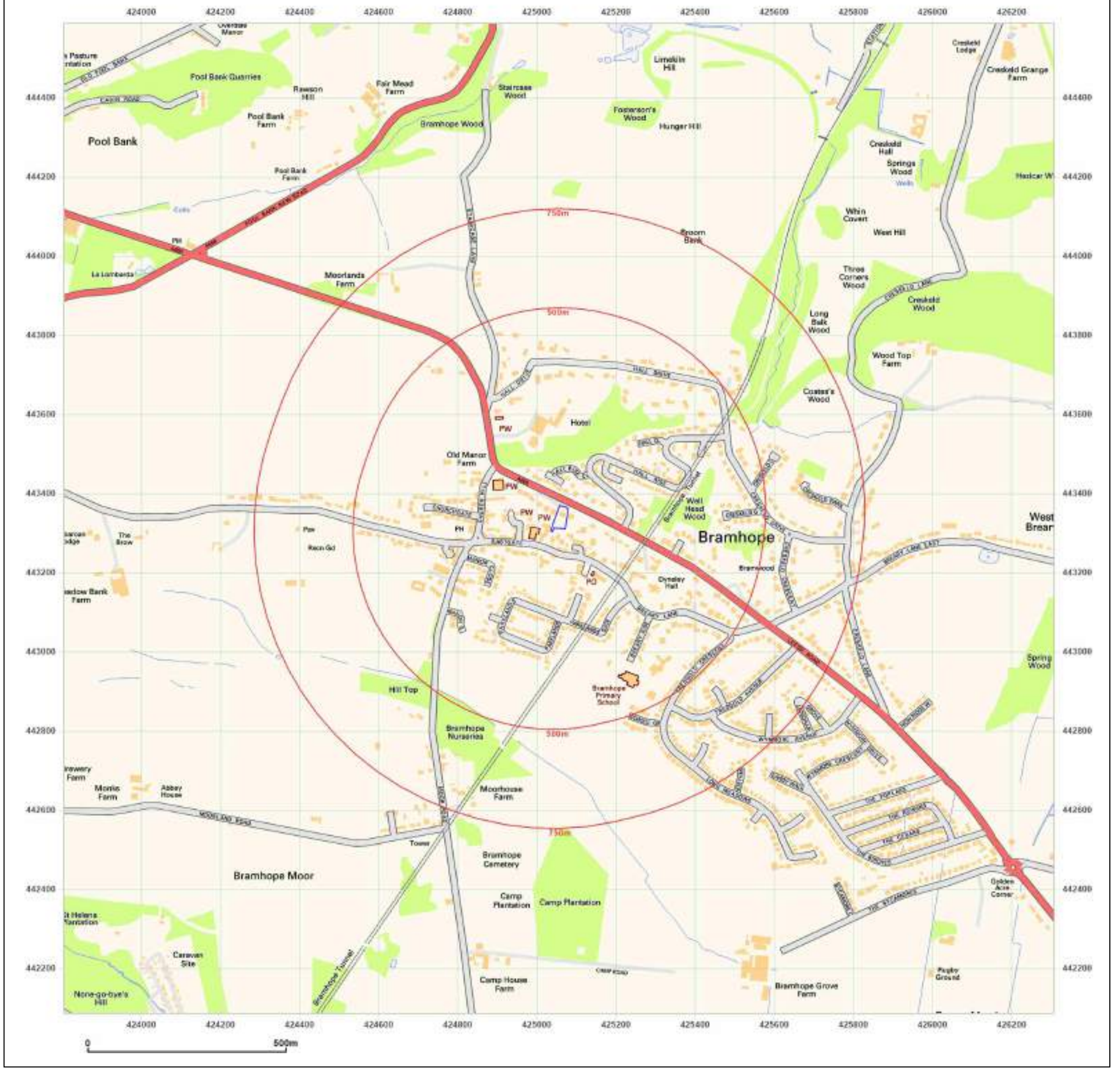
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 02 May 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: National Grid
Map date: **2010**
Scale: 1:10,000
Printed at: 1:10,000

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2010

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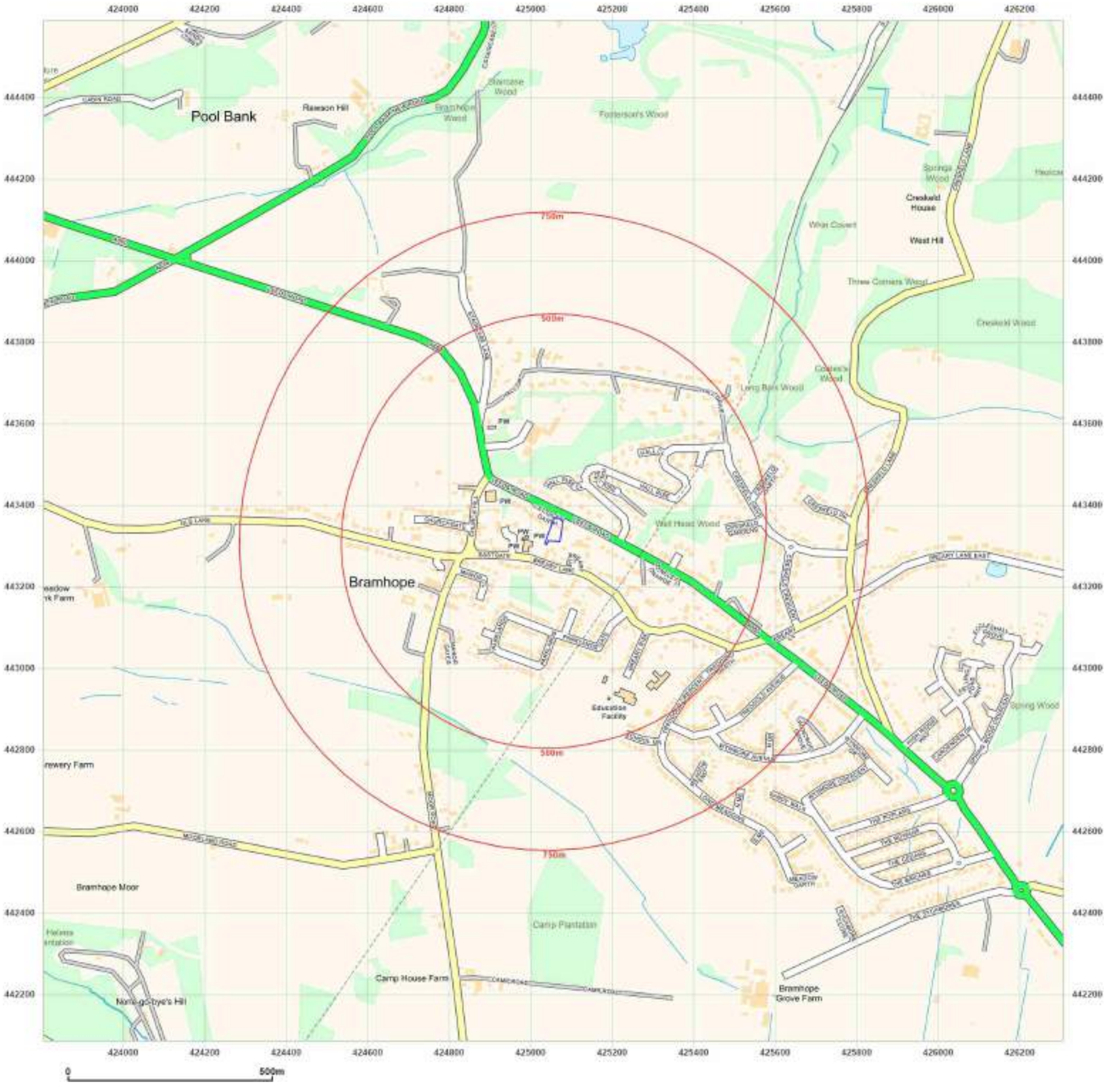

Groundsure INSIGHTS

Site Details:

6, ST GILES GARTH,
BRAMHOPE, LEEDS, LS16 9BD

Client Ref: CLR6426_-_6_St_Giles_Garth_Leeds
Report Ref: GS-5XL-HG1-AQE-NVA
Grid Ref: 425056, 443337

Map Name: National Grid

Map date: **2023**

Scale: 1:10,000

Printed at: 1:10,000

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2023

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