Development at Slate Pitts Farm

Phase I Desk Study Report

April 2026

Document Control

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Prepared and Issued by Ross Blake BSc MSc FGS, Engineer. Signed:

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Disclaimer

This report was produced by RB Geotechnical for JR Planning (The client) for the specific purposes of a Phase I Desk Study related to the proposed re-development at Slate Pitts Farm in Slaithwaite, West Yorkshire. This report may not be used by anyone else other than the client without their express permission. In any event, RB Geotechnical accepts no liability for any costs, liabilities or losses arising from the use of reliance upon the contents of this report by anyone other than the client.

1.0 Introduction

RB Geotechnical was commissioned by the client to carry out a Phase I Desk Study at the site relating to the commercial re-development at Slate Pitts Farm in Slaithwaite, West Yorkshire.

1.1 Aims and Scope

The principal aims of this Phase I Desk Study is to interpret information pertaining to the site, obtained during a desk-based review of available data for the site.

The scope of this study is as follows:

- To provide general information on the site such as location and description;
- To discuss the geology, hydrogeology and hydrology at, and in the vicinity of, the site;
- To summarise the environmental setting of the site; e.g., landfills, permits and sensitive land uses;
- To summarise potential geotechnical risks associated with the site;
- To provide a preliminary summary of potential coal mining risks to the site;
- To discuss and summarise any historical development that have occurred at the site and in the surrounding area;
- To assess potential contamination issues pertaining to the site with consideration of the site's historic use;
- To develop an initial conceptual model linking sources of potential contamination with pathways and receptors; and
- To provide a preliminary risk assessment for the current and proposed end use of the site.

Please note that this Phase I Desk Study excludes an assessment of risks arising from asbestos, unexploded ordnance and/or invasive species.

1.2 Terms and Conditions

This report has been prepared for the client in support of a proposed planning application for the proposed commercial development at Slate Pitts Farm in Slaithwaite, West Yorkshire.

1.3 Sources of information

Information on the site layout and current land use of the site is mainly based on information collected from online sources and photos from other sources.

An environmental database search was undertaken by GroundSure to provide supplementary Environmental information for the site and surrounding area. This was collated into an Insight Report by Ground Sure and as such the potential for further data to exist cannot be ruled out.

The existing database and other sources of which this study is based comprise:

- GroundSure EnviroInsight Report, Slate Pitts Farm, Slaithwaite, 6th April 2026 – Appendix A;
- GroundSure 1:10,000 Historical Maps, Slate Pitts Farm, Slaithwaite, 6th April 2026 - Appendix B
- GroundSure 1:2,500 Historical Maps, Slate Pitts Farm, Slaithwaite, 6th April 2026 - Appendix B
- Environment Agency website (www.environment-agency.gov.uk);
- British Geological Survey (BGS) Geoindex website (www.bgs.ac.uk/geoindex)
- Coal Authority Interactive Viewer (www.mapapps2.bgs.ac.uk/coalauthority/home.html)

Although every effort has been made to ensure the accuracy of the information contained herein, no checks have been carried out to ensure the accuracy of information obtained from third parties and no liability can be accepted for any errors or misinterpretation of the third-party information where it has been incorporated into this report.

2.0 Site Details

2.1 Site Location and Description

The 0.54ha sized site is situated off Chain Road in Slaithwaite, West Yorkshire, at Slate Pitts Farm. It is currently occupied by a farmhouse style building in the South, which backs onto more barn type buildings to the North. The rest of the site is largely grass and an area of tarmac hardstanding closest to the buildings.

The National Grid Reference for the centre of the site is 407657, 412572.

2.2 Proposed Development Plan

The site is intended for the demolition of the current buildings, and construction of large new commercial units. At the time of writing no proposed development plans were available.

3.0 Site History

3.1 History of site and surrounding area

Information relating to the historical development of the site and the surrounding area has been obtained from Historical Ordnance Survey Maps (1:10,000 and 1:2,500). These are presented in Appendix B.

Table 3.1 Summary of on-site and surrounding area history

Map	On-Site Features	Surrounding Area
1854	The site is shown to be part of a Sandstone Quarry, labelled Slate Pits.	The surrounding area is a mixture of open fields and quarries.
1854 - 1890	The site is no longer labelled as a Sandstone Quarry, just Slate Pits. With a large building likely once associated with the quarry located in the South East of the site and a pond in the centre of the site.	The surrounding area is now largely open fields.
1890 – 1955	The site remains unchanged.	Some development has taken place, with new farm buildings and roads shown in the surrounding area.

Map	On-Site Features	Surrounding Area
1955 – 1968	The site is now labelled as Slate Pitts Farm and the pond in the centre of the site is no longer shown.	The surrounding area remains unchanged.
1968 – 1978	The site remains unchanged	The surrounding area remains unchanged.
1978 – 2001	The site remains unchanged	An old railway line once situated from approximately 100m to the South West of the site is no longer present and instead has become a 'brook'
2001 – 2010	The buildings on site have expanded in site.	The surrounding area remains largely unchanged.
2010 – present day	An additional narrow building is shown just to the North of the existing building on site.	The surrounding area remains unchanged.

4.0 Geology, Hydrogeology and Hydrology

4.1 Geology

Information relating to the geology of the site has primarily been sourced from the EnviroInsight Report and the BGS Geoindex website.

4.1.1 Made Ground

No Made Ground is geologically mapped beneath the site.

4.1.2 Superficial Deposits

No superficial deposits are mapped beneath the site.

4.1.3 Solid Geology

Geological maps indicate that the site is underlain by bedrock of the Guiseley Grit Sandstone Formation.

4.1.4 BGS Boreholes

There are no BGS boreholes nearby.

4.1.5 Faults and Seams

No faults or coal seams are mapped within 250m of the site boundary.

4.1.6 Radon

The EnviroInsight Report indicates that the property is within a Radon Affected Area, as between 1% and 3% of buildings are affected. No Radon Protection Measures are required.

4.2 Hydrogeology

4.2.1 Aquifers

The underlying bedrock is classified as being a Secondary A Aquifer, which is described as having permeable layers that are capable of supporting water supplies at a local rather than strategic scale.

4.2.2 Groundwater, Surface Water and Potable Water Abstraction Licences

The EnviroInsight Report indicates that there are four Groundwater Abstractions situated within 500m of the site boundary, associated with springs for farming and domestic uses. There are no Surface Water or Potable Water Abstractions mapped within 500m of the site boundary.

4.2.3 Licensed Discharges

There are three recorded Licensed Discharges to controlled waters mapped within 500m of the site boundary, situated 81m to the East and 315m to the West associated with sewage discharges.

4.2.4 Pollution Incidents to Controlled Waters

The EnviroInsight Report shows no significant pollution incidents to controlled water within 250m of the site boundary.

4.3 Hydrology

The nearest water network is mapped 123m to the South West as ‘Blackmoorfoot Conduit’, a man-made watercourse.

4.3.1 Flood Risk

The EnviroInsight Report states that the site is not situated within either a Zone 2 Fluvial/Tidal Model or Zone 3 Fluvial Model floodplain. The site is also classified as being at a **LOW** Risk of flooding from Rivers or Sea, with a **NEGLIGIBLE** Risk of Surface Water flooding, and **NEGLIGIBLE** Risk of Groundwater flooding.

4.3.2 Source Protection Zones

The site is not located within a Source Protection Zone.

5.0 Environmental Setting

5.1 Waste Treatment and Disposal

5.1.1 Landfill Sites

There are no active or historical landfills mapped within 250m of the site boundary.

5.1.2 Other Waste Sites

No other waste sites mapped within 250m of the site boundary.

5.2 Regulatory Permits, Incidents and Registers

5.2.1 Control of Major Hazard Sites /Notification of Installations Handling Substances

The EnviroInsight Report indicates there are no Control of Major Hazard sites (COMAH) or Notification of Installations Handling Substances (NIHHS) within 250m of the site boundary.

5.2.2 Hazardous Substance Storage/Usage

There are no records of Hazardous substance storage/usage within 500m of the site boundary.

5.3 Potentially Infilled Land

No areas of infilled land are mapped within 250m of the site boundary.

5.4 Sensitive Land Uses

The site is mapped as being within Green Belt Land and SSSI Impact Risk Zone. Designated Ancient Woodland is mapped 298m to the East at Hey Wood. No other classified sensitive land uses are mapped either on or within 1000m of the site.

5.5 Visual and Cultural Designations

Seven listed buildings are mapped within 250m of the site boundary, the closest situated 31m to the West at Holt Head. No other Visual or Cultural Designations are mapped within 250m of the site boundary.

5.6 Agricultural Designations

The site is situated within Grade 4 poor quality land. No other Agricultural Designations are mapped within 250m of the site boundary.

5.7 Habitat Designations

There are six Priority Habitat Inventories mapped within 250m of the site boundary, the closest of which is located 131m to the South. No other Habitat Designations are mapped within 250m of the site boundary.

6.0 Potentially Contaminative Sites

6.1 Potentially Contaminative Land Uses

Historical potentially contaminated land features mapped within 250m of the site boundary have been identified as the former quarry on the site itself and old railway cuttings 112m to the South West. No current contaminated land features have been identified within 250m of the site boundary.

7.0 Geotechnical Assessment

7.1 Natural Hazards

The EnviroInsight Report states that the site has a **Negligible** risk of Dissolution of Soluble Rocks, Shrink Swell Clays, Running Sands and Compressible Deposits and a **Very Low** risk of Collapsible Deposits and Landslides.

7.2 Mining

The site is within an area of Brit Pits records for the Sandstone Quarrying. The site is also within a Coal Mining area, however upon inspecting the Coal Authority Interactive Viewer, it has been established that the site is not within a Development High Risk Area. The site is not deemed to be at risk from coal mining hazards.

8.0 Conceptual Site Model

8.1 Introduction

A preliminary **Conceptual Site Model** (CSM) has been developed for the site, to assess any constraints on the proposed development arising from contamination which may be present. The CSM describes the relationship between contamination which may be present from past and current activities, both on and off site, along with potential receptors of that contamination.

The site has been assessed in line with current UK guidelines and follows the procedures set out in the Environmental Agency 'Land Contamination Risk Management' (LCRM) web pages which are accessible via the government website.

LCRM provides the technical framework for structured decision making about land contamination and builds on previous work carried out under the Contaminated Land Research Programme of the former Department of the Environment. LCRM has adopted and refined the methodology and terminology that has been used in contaminated land risk assessment for a number of years.

LCRM defines the three essential elements to any risk:

- **A contaminant source** - a substance that is in, on or under land and has the potential to cause harm or to cause pollution of controlled waters;
- **A receptor** – in general terms, something that could be adversely affected by a contaminant, such as people, an ecological system, property or a water body; and
- **A pathway** - a route or means by which a receptor can be exposed to or affected by a contaminant.

Each of these elements can exist independently, but they create a risk only where they are linked together, so that a particular contaminant affects a particular receptor through a particular pathway. This kind of linked combination of source-pathway-receptor is described as a **Potential Pollutant Linkage (PPL)**.

It should be noted that at this preliminary stage, the assessment is based only on a desk-based study. A quantitative assessment of the potential risk is not possible at this stage of the assessment.

This report presents a Preliminary Conceptual Site Model and Preliminary Risk Assessments for the site, based on a **Commercial** end use.

8.2 Potential Contamination Sources

8.2.1 On Site Sources

Potential on-site sources of contamination have been identified in the form of possibly contaminated soils associated with historical quarrying and farming. However the proposed commercial end use for the new development would indicate very Low Risk to the end user.

8.2.2 Off Site Sources

No possible off-site sources of contamination have been identified that could affect the proposed development.

8.3 Potential Receptors

8.3.1 Human Receptors

Based on the proposed use of the site, on-site receptors include:

- Current site users;
- New end users;
- Construction workers involved in the proposed development. Note that potential contamination risks to construction workers will be mitigated by appropriate risk assessments and mitigation measures required by Control of Substances Hazardous to Health (COSHH) and Construction, Design and Management (CDM) regulations.

8.3.2 Controlled Waters Receptors

The following on-site controlled waters receptors include:

- Groundwater within the underlying Aquifers.

8.3.3 Buildings Receptors

The proposed new buildings are a potential receptor.

8.4 Potential Pathways

8.4.1 On-Site Human Receptors

Potential pathways to future human receptors on site include:

- Dermal contact or ingestion with contaminated soils;
- Inhalation of contaminants in soil derived dust;
- Migration and inhalation of gases and vapours outdoors or indoors;
- Contamination of drinking water pipes by contaminated soils/water leading to the ingestion of contaminated drinking water.

8.4.2 Controlled Waters

Potential pathways to on-site controlled water receptors (groundwater) include:

- Leaching of contaminants and/or migration of contaminants from the unsaturated zone of soils to groundwater (Aquifers) in natural strata;
- Vertical migration of contaminants in shallow groundwater to deeper strata and aquifers;
- Lateral migration of impacted water through service conduits, drainage systems and possible perched groundwater pathways to surface water receptors.

8.4.3 Buildings

Potential pathways from off-site sources to the on-site property receptor include:

- Migration and accumulation of ground gas or vapours in buildings or structures.

8.5 Preliminary Risk Assessment

Based on the stated potential sources of contaminants identified and the receptors and pathways described, an assessment of the environmental risks has been made with reference to the significance and degree of risk. This assessment is based on consideration of whether the source contamination can reach a receptor and hence whether it is of a major or minor significance.

A preliminary Conceptual Site Model (CSM) of the Potential Pollutant Linkages (PPL) has been developed based on the information derived from this desk study for the site. This CSM has been used to identify potentially Relevant PPLs for the current and proposed end uses which have been assessed qualitatively using CIRIA 552 guidance, as described in Table 9.1 and Table 9.2.

Table 9.1 Classification of Consequence

Consequence	Criteria
Severe	Short term (acute) risk to Human Health likely to result in "significant harm" as defined by the Environmental Protection Act 1990, Part IIa. Short term risk of pollution of sensitive water resource. Catastrophic damage to buildings / property
Moderate	Chronic damage to Human Health likely, over a long term, to result in "significant harm" as defined by the Environmental Protection Act 1990, Part IIa. Pollution of sensitive water resources
Mild	Health effects to Human Health that are unlikely to result in "significant harm" as defined by the Environmental Protection Act 1990, Part IIa. Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services. Damage to sensitive buildings / structures / services or the environment
Negligible	Non-permanent health effects to Human Health that are unlikely to result in "significant harm" as defined by the Environmental Protection Act 1990, Part IIa. Those that are easily prevented by means such as personal protective clothing. Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve.

Table 9.2 Classification of Probability

Probability	Criteria
Almost Certain	Circumstances are such that an event either appears very likely in the short term and almost inevitable over the long term or there is evidence of currently harm occurring
Likely	Circumstances are such that an event, whilst not inevitable, is possible in the short term and is likely to occur over the long term
Unlikely	Circumstances are such that it is possible an event could occur, but it is by no means certain to occur even over a longer period, and it is less likely in the shorter term
Very Unlikely	Pollutant linkage may be present, but the circumstances under which harm would occur are improbable even in the medium to long term
Extremely Unlikely	Pollutant linkage may be present, but the circumstances under which harm would occur are highly improbable even in the long term

Once the consequence and probability have been classified, these can then be compared to produce a risk category (using Table 9.3), ranging from **Very High Risk** to **Very Low Risk,** with the definitions summarised in Table 9.4.

Table 9.3 Comparison of Consequence against Probability

Consequence / Probability	Severe	Moderate	Mild	Negligible
Almost Certain	Very High Risk	High Risk	Moderate Risk	Low Risk
Likely	High Risk	Moderate Risk	Moderate/ Low Risk	Low Risk
Unlikely	Moderate Risk	Moderate/ Low Risk	Low Risk	Very Low Risk
Very Unlikely	Low Risk	Low Risk	Very Low Risk	Very Low Risk
Extremely Unlikely	Very Low Risk	Very Low Risk	Very Low Risk	Very Low Risk

Table 9.4 Description of the Classified Risks and Likely Action Required

Risk	Criteria
Very High	There is a high probability that severe harm could arise to a designated receptor from an identified hazard at the site without appropriate remediation action
High	Harm is likely to arise to a designated receptor from an identified hazard at the site without appropriate remediation action.
Moderate	It is possible that without appropriate remediation action, harm could arise to a designated receptor. It is relatively unlikely that any such harm would be severe, and if any harm were to occur it is more likely that such harm would be relatively mild
Low	It is possible that harm could arise to a designated receptor from an identified hazard. It is likely that, at works, if any harm were to be realised, any such effects would be mild.
Very Low	There is very low possibility that harm could arise to the receptor, but it is likely that this harm, if realised, would be mild at worst

In accordance with CLR11, professional judgement has been employed to evaluate the risk on a qualitative basis using available information.

A summary of the pollution linkages identified during the desk study are provided in Table 9.5.

Table 9.5 Conceptual Site Model of Potential Pollutant Linkages

Source	Receptor	Pathway	Risk	Discussion
Contaminants in soil, soil derived dust, surface water run-off, groundwater, and as vapours/ground gas	New Residents	• Dermal contact or ingestion contaminants in soil-derived dust and entrained surface water run-off from areas where soil is exposed at the surface or where excavation takes place and in shallow groundwater in the natural strata if excavation takes place below the water table. • Inhalation of contaminants in soil derived dust from areas where soil is exposed at the surface of where excavation takes place. • Inhalation of soil and water derived vapours and ground gas outdoors • Inhalation of soil derived, and water derived vapours and ground gas indoors where it may have accumulated in buildings and enclosed spaces.	Low	Possible on-site sources of contamination have been identified in the form of potentially contaminated shallow soils associated with historical quarrying and farming. However it will not affect the proposed new commercial end use.
	Construction Workers	• Dermal contact or ingestion contaminants in soil-derived dust and entrained surface water run-off from areas where soil is exposed at the surface or where excavation takes place and in shallow groundwater in the natural strata if excavation takes place below the water table. • Inhalation of contaminants in soil derived dust from areas where soil is exposed at the surface of where excavation takes place.	Low	Construction workers will wear necessary PPE during the development works, thus reducing any risk of contact with potential contaminants.
Contaminants in Soil	Groundwater within the underlying soils and bedrock (Aquifer)	• Leaching of contaminants and/or migration of free phase contaminants from the unsaturated zone soils to groundwater in the natural strata • Vertical migration of contaminants in shallow groundwater to deeper strata and aquifer	Low	The aquifer is likely to be at a depth that will not be affected by potential soil contaminants
Contaminants in soil, surface water runoff, groundwater and as vapours/ground gas	Surface Water	• Lateral migration of contaminants and/or migration of free phase contaminants present in the Made Ground via groundwater to surface water discharge • Lateral migration of contaminants and/or migration of free phase contaminants present in the Made Ground and entrained in surface water runoff	Low	No surface water features on the site are deemed to present a risk to future human usage.
Contaminants in soil, groundwater and as vapours/ground gas	Building	• Accumulation of soil and water derived vapours/and or ground gas in enclosed spaces	Low	No Possible risk of ground gases identified.
Contaminants in soil	Water Supply Routes	• Migration of heavy metal contaminants into newly placed water supply routes	Low	No other contamination risks identified.

9.0 Conclusions

The site is proposed to have the current building demolished, with new commercial units constructed in their place.

Although the site was historical a quarry and more recently a farm, no potential on-site or off-site sources of contamination have been identified that could affect a new proposed commercial development.

In summary, on the basis of the above listed contaminant sources it is concluded that:

- Contaminants are not likely to be present in, on or under the land at the site from either on-site or off-site sources that could affect the new development; and
- Future on site receptors to any form of contamination have been identified as the construction workers, residents, the new buildings, surface water and the groundwater.

A qualitative risk assessment of the identified potential pathways of contamination to the site have been summarised in Table 9.5. The following risks have been designated:

- Future Human Receptors – Low Risk
- Construction Workers –Low Risk
- Groundwater –Low Risk
- Surface Water –Low Risk
- New Buildings – Low Risk
- Utilities – Low Risk

Based on the review of all available historical data, it has been established that overall, a **LOW** risk of potential pollutant linkage to the site exists, due to the lack of potential sources of contamination that could affect a proposed new commercial development.

10.0 References

- BS 5930: (2015) Code of Practice for Site Investigations. British Standards Institution.
- BS 10175: (2011) Code of Practice for the Investigation of Potentially Contaminated Sites. British Standard Institution.
- CIRIA 552: (2001) Contaminated Land Risk Assessment, A guide to good practice.

APPENDIX A – GROUNDSURE REPORT

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

SLATE PITTS, CHAIN ROAD, SLAITHWAITE, HUDDERSFIELD, KIRKLEES, HD7 5TY

Order Details

Date: 06/04/2026

Your ref: RBG514

Our Ref: GS-Z78-SU9-JWA-3H1

Site Details

Location: 407657 412572

Area: 0.54 ha

Authority: Kirklees Council ↗

Site plan



Quick Links

Summary of findings p. 2 >

OS MasterMap site plan p.14 >

Aerial image p. 9 >

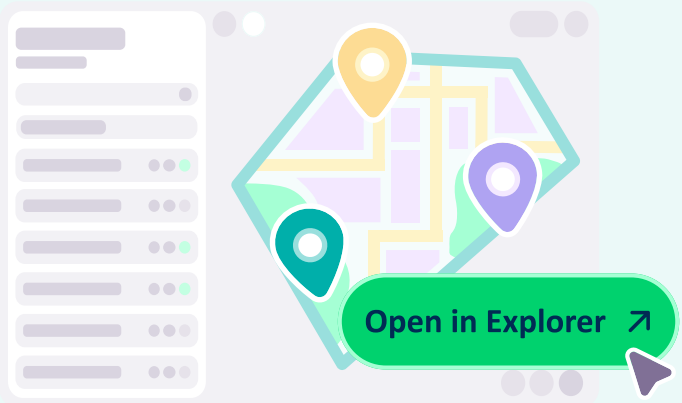
Insight User Guide ↗

Open this site in Explorer!

Access the data now in our interactive workspace.

- Map and interpret 130+ datasets across 170 years
- Generate insights and visuals quickly
- Revisit and collaborate with your team

Access to Groundsure Explorer requires an Insights account.
12 months access begins at purchase.



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

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Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	4	2	4	25	-
17 >	1.2 >	Historical tanks >	0	1	0	1	-
17	1.3	Historical energy features	0	0	0	0	-
18	1.4	Historical petrol stations	0	0	0	0	-
18	1.5	Historical garages	0	0	0	0	-
18	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
19 >	2.1 >	Historical industrial land uses >	4	3	5	28	-
21 >	2.2 >	Historical tanks >	0	1	0	1	-
21	2.3	Historical energy features	0	0	0	0	-
22	2.4	Historical petrol stations	0	0	0	0	-
22	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
23	3.1	Active or recent landfill	0	0	0	0	-
23	3.2	Historical landfill (BGS records)	0	0	0	0	-
24	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
24 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	1	-
24	3.5	Historical waste sites	0	0	0	0	-
24	3.6	Licensed waste sites	0	0	0	0	-
25 >	3.7 >	Waste exemptions >	0	0	4	3	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
26	4.1	Recent industrial land uses	0	0	0	-	-
26	4.2	National Geographic Database (NGD) - Current or recent tanks	0	0	0	-	-
27	4.3	Current or recent petrol stations	0	0	0	0	-
27	4.4	Electricity cables	0	0	0	0	-
27	4.5	Gas pipelines	0	0	0	0	-

27	4.6	Sites determined as Contaminated Land	0	0	0	0	-
27	4.7	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
28	4.8	Regulated explosive sites	0	0	0	0	-
28	4.9	Hazardous substance storage/usage	0	0	0	0	-
28	4.10	Historical licensed industrial activities (IPC)	0	0	0	0	-
28	4.11	Licensed industrial activities (Part A(1))	0	0	0	0	-
28	4.12	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
29	4.13	Radioactive Substance Authorisations	0	0	0	0	-
29 >	**4.14 >**	**Licensed Discharges to controlled waters >**	0	0	1	2	-
30	4.15	Pollutant release to surface waters (Red List)	0	0	0	0	-
30	4.16	Pollutant release to public sewer	0	0	0	0	-
30	4.17	List 1 Dangerous Substances	0	0	0	0	-
30	4.18	List 2 Dangerous Substances	0	0	0	0	-
30 >	**4.19 >**	**Pollution Incidents (EA/NRW) >**	0	0	1	0	-
31	4.20	Pollution inventory substances	0	0	0	0	-
31	4.21	Pollution inventory waste transfers	0	0	0	0	-
31	4.22	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	**Hydrogeology >**	On site	0-50m	50-250m	250-500m	500-2000m
32 >	**5.1 >**	**Superficial aquifer >**	Identified (within 500m)				
33 >	**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	4	13
40 >	**5.7 >**	**Surface water abstractions >**	0	0	0	0	39
49 >	**5.8 >**	**Potable abstractions >**	0	0	0	0	3
50 >	**5.9 >**	**Source Protection Zones >**	0	0	1	3	-
50	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	**Hydrology >**	On site	0-50m	50-250m	250-500m	500-2000m

51 >	6.1 >	Water Network (OS NGD) >	0	0	1	-	-
52 >	6.2 >	Surface water features >	0	0	2	-	-
52 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
52 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
53 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
54	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
54	7.2	Historical Flood Events	0	0	0	-	-
54	7.3	Flood Defences	0	0	0	-	-
55	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
55	7.5	Flood Storage Areas	0	0	0	-	-
56	7.6	Flood Zone 2	None (within 50m)				
56	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
57 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
59 >	9.1 >	Groundwater flooding >	Negligible (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
60 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	1
61	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
61 >	10.3 >	Special Areas of Conservation (SAC) >	0	0	0	0	1
61 >	10.4 >	Special Protection Areas (SPA) >	0	0	0	0	1
62	10.5	National Nature Reserves (NNR)	0	0	0	0	0
62	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
62 >	10.7 >	Designated Ancient Woodland >	0	0	0	1	1
63	10.8	Biosphere Reserves	0	0	0	0	0
63	10.9	Forest Parks	0	0	0	0	0
63	10.10	Marine Conservation Zones	0	0	0	0	0
63 >	10.11 >	Green Belt >	1	0	0	0	0

64	10.12	Proposed Ramsar sites	0	0	0	0	0
64	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
64	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
64	10.15	Nitrate Sensitive Areas	0	0	0	0	0
65	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
66 >	**10.17 >**	**SSSI Impact Risk Zones >**	1	-	-	-	-
67 >	**10.18 >**	**SSSI Units >**	0	0	0	0	6
Page	Section	**Visual and cultural designations >**	On site	0-50m	50-250m	250-500m	500-2000m
70	11.1	World Heritage Sites	0	0	0	-	-
71	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
71	11.3	National Parks	0	0	0	-	-
71 >	**11.4 >**	**Listed Buildings >**	0	1	6	-	-
72	11.5	Conservation Areas	0	0	0	-	-
72	11.6	Scheduled Ancient Monuments	0	0	0	-	-
72	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	**Agricultural designations >**	On site	0-50m	50-250m	250-500m	500-2000m
73 >	**12.1 >**	**Agricultural Land Classification >**	Grade 4 (within 250m)				
74	12.2	Open Access Land	0	0	0	-	-
74	12.3	Tree Felling Licences	0	0	0	-	-
74	12.4	Environmental Stewardship Schemes	0	0	0	-	-
74	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	**Habitat designations >**	On site	0-50m	50-250m	250-500m	500-2000m
75 >	**13.1 >**	**Priority Habitat Inventory >**	0	0	6	-	-
76	13.2	Habitat Networks	0	0	0	-	-
76	13.3	Open Mosaic Habitat	0	0	0	-	-
76	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
77 >	**14.1 >**	**10k Availability >**	Identified (within 500m)				
78 >	**14.2 >**	**Artificial and made ground (10k) >**	0	0	0	9	-

80 >	14.3 >	Superficial geology (10k) >	0	0	0	1	-
81 >	14.4 >	Landslip (10k) >	0	0	1	0	-
82 >	14.5 >	Bedrock geology (10k) >	1	0	3	20	-
84 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	1	5	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
85 >	15.1 >	50k Availability >	Identified (within 500m)				
86 >	15.2 >	Artificial and made ground (50k) >	0	0	0	1	-
87	15.3	Artificial ground permeability (50k)	0	0	-	-	-
88 >	15.4 >	Superficial geology (50k) >	0	0	0	2	-
89	15.5	Superficial permeability (50k)	None (within 50m)				
89 >	15.6 >	Landslip (50k) >	0	0	1	0	-
89	15.7	Landslip permeability (50k)	None (within 50m)				
90 >	15.8 >	Bedrock geology (50k) >	1	0	2	15	-
91 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
92 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	1	5	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
93	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence >					
94 >	17.1 >	Shrink swell clays >	Negligible (within 50m)				
95 >	17.2 >	Running sands >	Negligible (within 50m)				
96 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
97 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
98 >	17.5 >	Landslides >	Very low (within 50m)				
99 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
101 >	18.1 >	BritPits >	1	0	2	4	-
103 >	18.2 >	Surface ground workings >	4	0	5	-	-
104	18.3	Underground workings	0	0	0	0	0
104	18.4	Underground mining extents	0	0	0	0	-

104	18.5	Historical Mineral Planning Areas	0	0	0	0	-
105 >	**18.6 >**	**Non-coal mining >**	1	0	0	0	1
105	18.7	JPB mining areas	None (within 0m)				
105	18.8	The Coal Authority non-coal mining	0	0	0	0	-
106	18.9	Researched mining	0	0	0	0	-
106	18.10	Mining record office plans	0	0	0	0	-
106	18.11	BGS mine plans	0	0	0	0	-
106 >	**18.12 >**	**Coal mining >**	Identified (within 0m)				
107	18.13	Brine areas	None (within 0m)				
107	18.14	Gypsum areas	None (within 0m)				
107	18.15	Tin mining	None (within 0m)				
107	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
108	19.1	Natural cavities	0	0	0	0	-
108	19.2	Mining cavities	0	0	0	0	0
108	19.3	Reported recent incidents	0	0	0	0	-
108	19.4	Historical incidents	0	0	0	0	-
Page	Section	**Radon >**					
110 >	**20.1 >**	**Radon >**	Between 1% and 3% (within 0m)				
Page	Section	**Soil chemistry >**	On site	0-50m	50-250m	250-500m	500-2000m
112 >	**21.1 >**	**BGS Estimated Background Soil Chemistry >**	1	1	-	-	-
112	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
112	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
113	22.1	Underground railways (London)	0	0	0	-	-
113	22.2	Underground railways (Non-London)	0	0	0	-	-
113	22.3	Railway tunnels	0	0	0	-	-
113	22.4	Historical railway and tunnel features	0	0	0	-	-
113	22.5	Royal Mail tunnels	0	0	0	-	-

114	22.6	Historical railways	0	0	0	-	-
114	22.7	Railways	0	0	0	-	-
114	22.8	Crossrail 2	0	0	0	0	-
114	22.9	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 30/05/2021

Site Area: 0.54ha

Recent site history - 2018 aerial photograph



Capture Date: 29/06/2018

Site Area: 0.54ha

Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.54ha

Recent site history - 2000 aerial photograph



Capture Date: 21/09/2000

Site Area: 0.54ha

Recent site history - 1999 aerial photograph



Capture Date: 05/09/1999

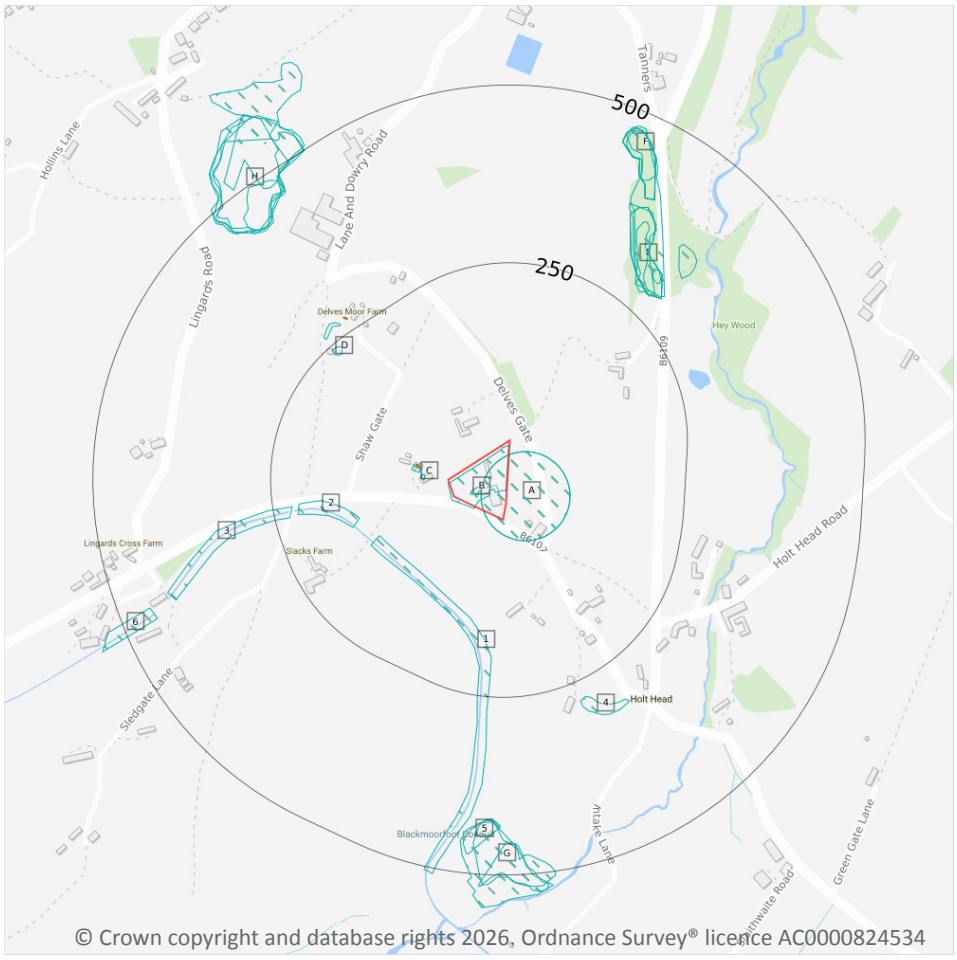
Site Area: 0.54ha

OS MasterMap site plan



Site Area: 0.54ha

1 Past land use



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

1.1 Historical industrial land uses

Records within 500m	35

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 15 >**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Slate Pits**	**1948**	**1504925**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Slate Pits**	**1904**	**1516172**
B	**On site**	**Slate Pits**	**1955**	**1516177**
B	**On site**	**Slate Pits**	**1930**	**1541838**
C	33m W	Unspecified Tank	1955	1472485
C	42m W	Unspecified Tank	1930 - 1948	1506656
1	112m SW	Cuttings	1978	1433294
2	136m W	Cuttings	1955 - 1978	1535472
3	223m W	Cuttings	1978	1433293
D	232m NW	Unspecified Pit	1904	1450131
D	261m NW	Unspecified Ground Workings	1955	1439220
4	274m SE	Unspecified Pit	1904	1450194
E	277m NE	Unspecified Ground Workings	1978	1530485
E	282m NE	Unspecified Quarry	1955	1533194
E	282m NE	Unspecified Quarry	1930	1517898
E	282m NE	Unspecified Ground Workings	1890	1488418
E	282m NE	Unspecified Quarry	1904	1509294
E	282m NE	Unspecified Quarry	1948	1542515
E	303m NE	Refuse Heap	1978	1434345
E	332m NE	Unspecified Heap	1978	1466683
F	391m NE	Unspecified Old Quarry	1904	1437755
F	391m NE	Unspecified Pit	1890	1494396
F	391m NE	Unspecified Pit	1948	1561744
F	412m NE	Unspecified Ground Workings	1930	1528642
G	422m S	Unspecified Ground Workings	1978	1568914
5	424m S	Unspecified Pit	1955	1450133
G	426m S	Unspecified Ground Workings	1904 - 1930	1565452
H	435m NW	Unspecified Quarry	1930	1500441
H	437m NW	Unspecified Quarry	1955	1576448

ID	Location	Land use	Dates present	Group ID
H	438m NW	Unspecified Quarry	1948	1556874
H	438m NW	Unspecified Quarry	1904	1494602
H	440m NW	Unspecified Pit	1978	1450094
6	451m W	Cuttings	1955 - 1978	1581190
G	454m S	Unspecified Pit	1955	1450098
H	481m NW	Unspecified Quarry	1890	1513695

This data is sourced from Ordnance Survey® / Groundsure.

1.2 Historical tanks

Records within 500m	**2**

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 15 >**

ID	Location	Land use	Dates present	Group ID
C	44m NW	Unspecified Tank	1932	241255
D	267m NW	Unspecified Tank	1932	241254

This data is sourced from Ordnance Survey® / Groundsure.

1.3 Historical energy features

Records within 500m	**0**

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'.

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	0

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

This data is sourced from Ordnance Survey® / Groundsure.

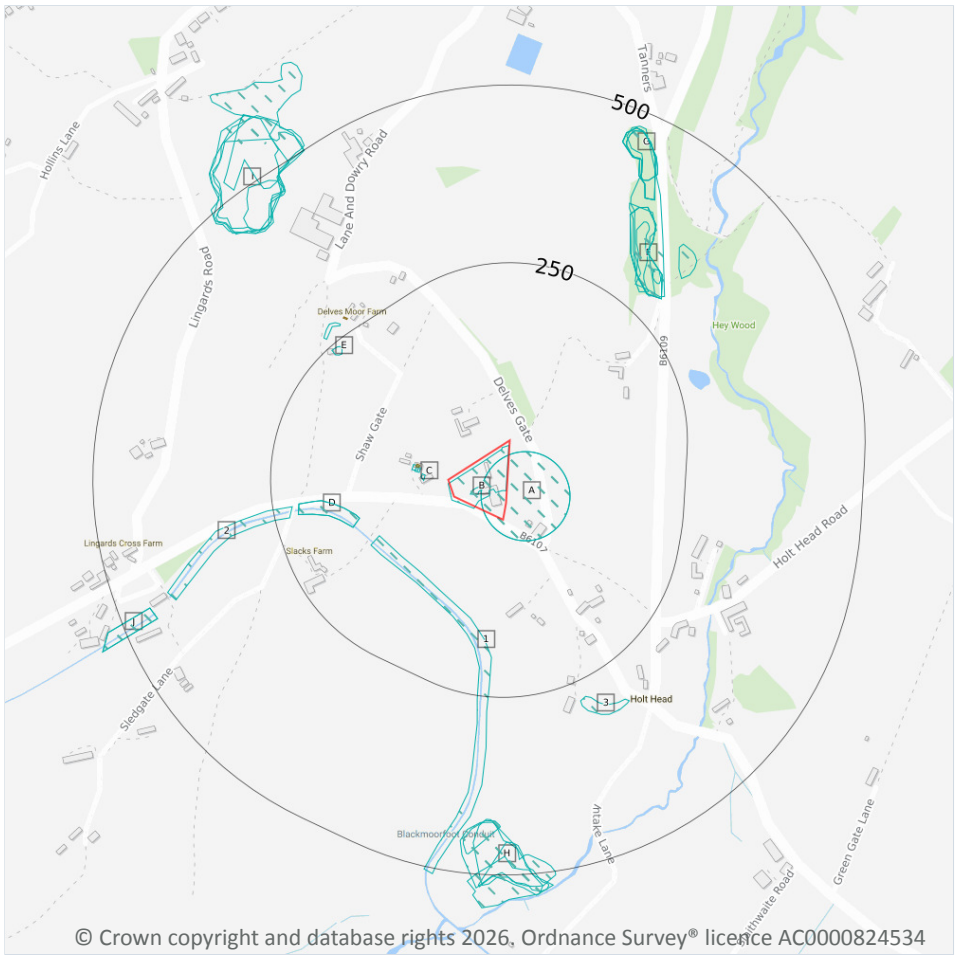
1.6 Historical military land

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

2.1 Historical industrial land uses

Records within 500m	40

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

Features are displayed on the Past land use - un-grouped map on **page 19 >**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Slate Pits**	**1948**	**1504925**
A	**On site**	**Slate Pits**	**1904**	**1516172**
B	**On site**	**Slate Pits**	**1955**	**1516177**

ID	Location	Land Use	Date	Group ID
B	**On site**	**Slate Pits**	**1930**	**1541838**
C	33m W	Unspecified Tank	1955	1472485
C	42m W	Unspecified Tank	1930	1506656
C	45m W	Unspecified Tank	1948	1506656
1	112m SW	Cuttings	1978	1433294
D	136m W	Cuttings	1978	1535472
D	136m W	Cuttings	1955	1535472
2	223m W	Cuttings	1978	1433293
E	232m NW	Unspecified Pit	1904	1450131
E	261m NW	Unspecified Ground Workings	1955	1439220
3	274m SE	Unspecified Pit	1904	1450194
F	277m NE	Unspecified Ground Workings	1978	1530485
F	282m NE	Unspecified Quarry	1955	1533194
F	282m NE	Unspecified Quarry	1930	1517898
F	282m NE	Unspecified Quarry	1948	1542515
F	282m NE	Unspecified Quarry	1904	1509294
F	282m NE	Unspecified Ground Workings	1890	1488418
F	303m NE	Refuse Heap	1978	1434345
F	332m NE	Unspecified Heap	1978	1466683
G	391m NE	Unspecified Old Quarry	1904	1437755
G	391m NE	Unspecified Pit	1948	1561744
G	391m NE	Unspecified Pit	1890	1494396
G	412m NE	Unspecified Ground Workings	1930	1528642
G	412m NE	Unspecified Ground Workings	1930	1528642
H	422m S	Unspecified Ground Workings	1978	1568914
H	424m S	Unspecified Pit	1955	1450133
H	426m S	Unspecified Ground Workings	1930	1565452
I	435m NW	Unspecified Quarry	1930	1500441

ID	Location	Land Use	Date	Group ID
I	437m NW	Unspecified Quarry	1955	1576448
I	438m NW	Unspecified Quarry	1948	1556874
I	438m NW	Unspecified Quarry	1904	1494602
I	440m NW	Unspecified Pit	1978	1450094
J	451m W	Cuttings	1978	1581190
J	451m W	Cuttings	1955	1581190
H	454m S	Unspecified Pit	1955	1450098
H	474m S	Unspecified Ground Workings	1904	1565452
I	481m NW	Unspecified Quarry	1890	1513695

This data is sourced from Ordnance Survey® / Groundsure.

2.2 Historical tanks

Records within 500m	**2**

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

Features are displayed on the Past land use - un-grouped map on **page 19 >**

ID	Location	Land Use	Date	Group ID
C	44m NW	Unspecified Tank	1932	241255
E	267m NW	Unspecified Tank	1932	241254

This data is sourced from Ordnance Survey® / Groundsure.

2.3 Historical energy features

Records within 500m	**0**

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'.

This data is sourced from Ordnance Survey® / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey® / Groundsure.

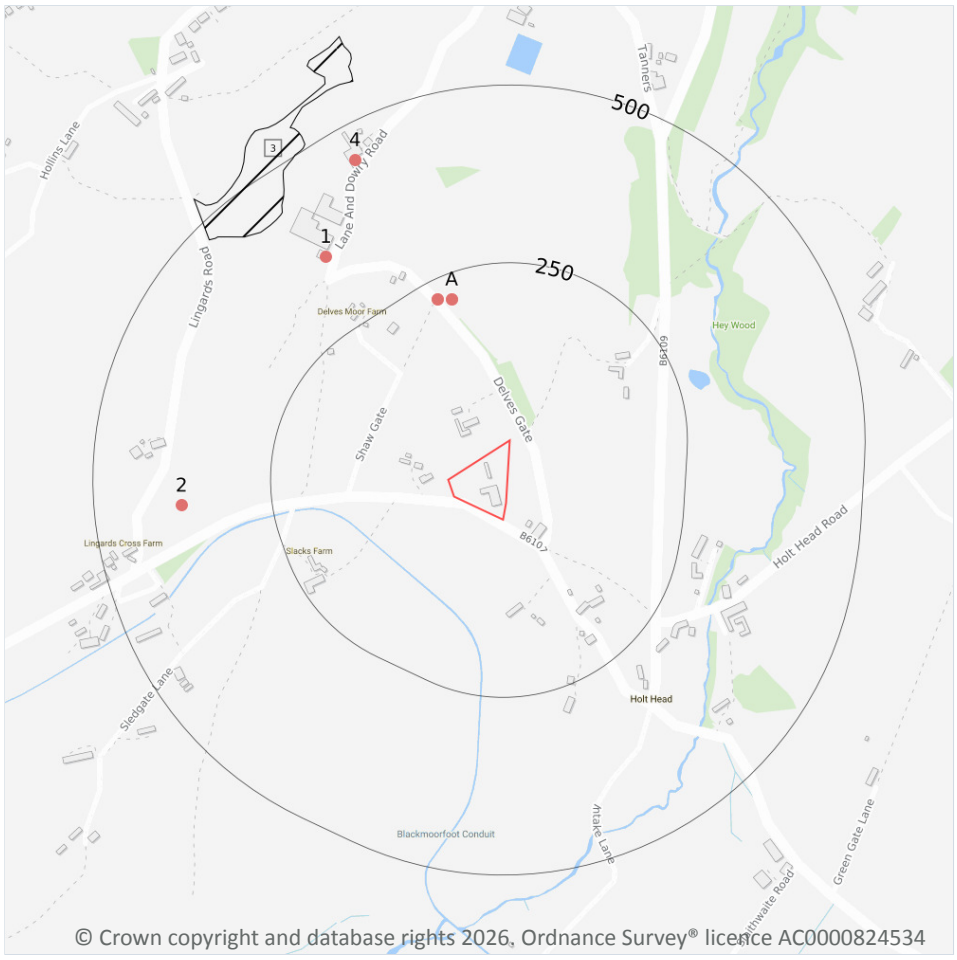
2.5 Historical garages

Records within 500m	0

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

This data is sourced from Ordnance Survey® / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

Historical landfill (EA/NRW)

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	1

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

Features are displayed on the Waste and landfill map on **page 23 >**

ID	Location	Details		
3	437m NW	Site Address: Shroggs Quarry, Lingards Road, Slaithwaite, Huddersfield, West Yorkshire Licence Holder Address: Spurn Point, Linthwaite, Huddersfield	Waste Licence: Yes Site Reference: 4700/0044 Waste Type: Inert, Industrial, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 09/08/1977 Licence Surrender: 12/01/1989	Operator: J Wimpenny and Company Limited Licence Holder: J Wimpenny and Company Limited First Recorded 31/12/1968 Last Recorded: 31/12/1989

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	7

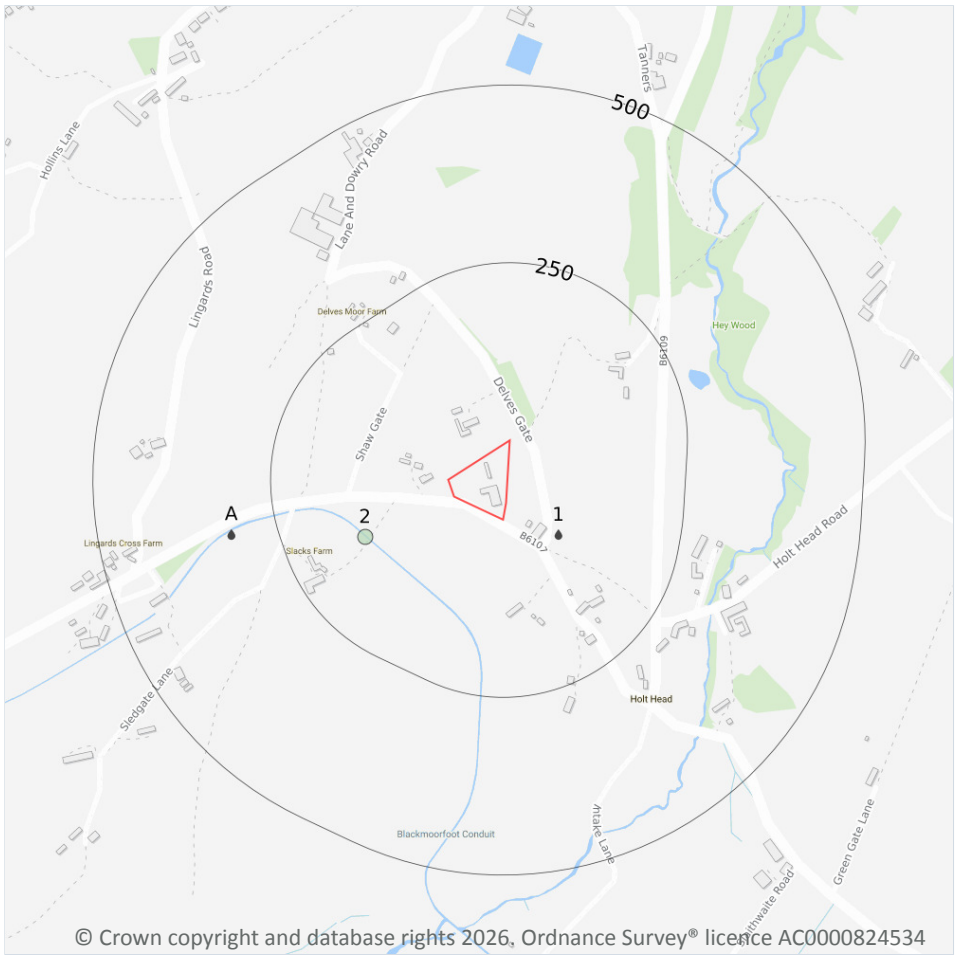
Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 23 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	214m N	-	WEX373921	Storing waste exemption	On a farm	Storage of sludge
A	214m N	-	WEX436659	Storing waste exemption	On a farm	Storage of sludge
A	223m NW	-	WEX410354	Storing waste exemption	On a farm	Storage of sludge
A	223m NW	-	WEX436769	Storing waste exemption	On a farm	Storage of sludge
1	357m NW	-	WEX355460	Using waste exemption	On a farm	Use of waste in construction
2	377m W	-	WEX373916	Storing waste exemption	On a farm	Storage of sludge
4	450m NW	Dowry Barn, Dowry, Slaithwaite, Huddersfield, Hd7 5ub	WEX477464	Using waste exemption	On a farm	Use of waste in construction

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

4 Current industrial land use



Site Outline

Search buffers in metres (m)

Licensed Discharges to controlled waters

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	0

Current potentially contaminative industrial sites.

This data is sourced from Ordnance Survey®.

4.2 National Geographic Database (NGD) - Current or recent tanks

Records within 250m	0

Current or recent tanks identified from the Ordnance Survey® NGD.

This data is sourced from Ordnance Survey®.

4.3 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.4 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.5 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.6 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.7 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.

4.8 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.

4.9 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.

4.10 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.

4.11 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.

4.12 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.

4.13 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.

4.14 Licensed Discharges to controlled waters

Records within 500m	3

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

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

ID	Location	Address	Details	
1	81m E	THE FORMER WHITEHOUSE PUB, DELVES GATE, SLAITHWAITE, HUDDERSFIELD, WEST YORKSHIRE, HD7 5FA	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRBB3093DD Permit Version: 1 Receiving Water: GROUNDWATERS VIA A SOAKAWAY	Status: NEW ISSUED UNDER EPR 2010 Issue date: 08/07/2014 Effective Date: 08/07/2014 Revocation Date: -
A	315m W	6 CHAIN ROAD, MARSDEN, HUDDERSFIELD, WEST YORKSHIRE, HD7 5TZ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: C5575 Permit Version: 1 Receiving Water: LAND ADJ. TO DWELLING	Status: TRANSFERRED FROM COPA 1974 Issue date: 07/06/1989 Effective Date: 07/06/1989 Revocation Date: 25/07/2012
A	315m W	6 CHAIN ROAD, MARSDEN, HUDDERSFIELD, WEST YORKSHIRE, HD7 5TZ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: C5575 Permit Version: 2 Receiving Water: LAND ADJ. TO DWELLING	Status: TRANSFERRED FROM COPA 1974 Issue date: 26/07/2012 Effective Date: 26/07/2012 Revocation Date: -

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

4.15 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.

4.16 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.

4.17 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.

4.18 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.

4.19 Pollution Incidents (EA/NRW)

Records within 500m	1

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

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

ID	Location	Details	
2	138m SW	Incident Date: 31/01/2002 Incident Identification: 55604 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.20 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.

4.21 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.

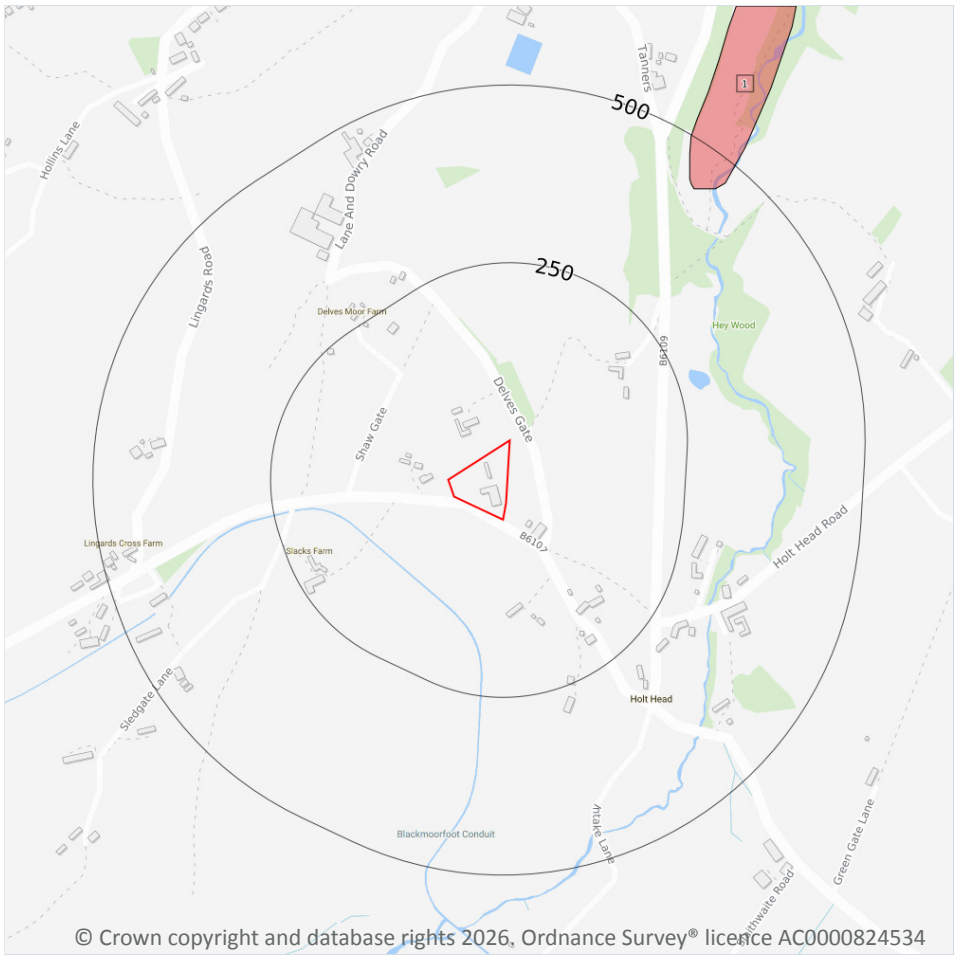
4.22 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m	1

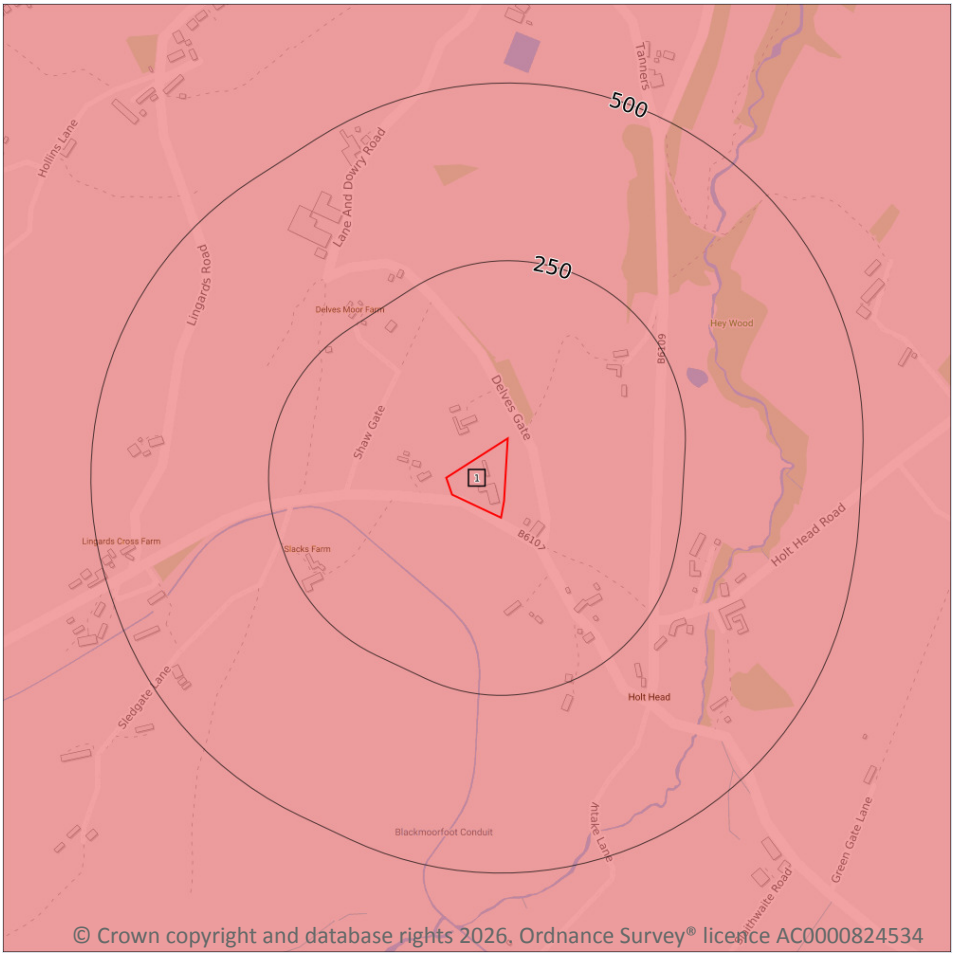
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 32 >**

ID	Location	Designation	Description
1	439m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

Bedrock aquifer



Site Outline

Search buffers in metres (m)

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

5.2 Bedrock aquifer

Records within 500m	1

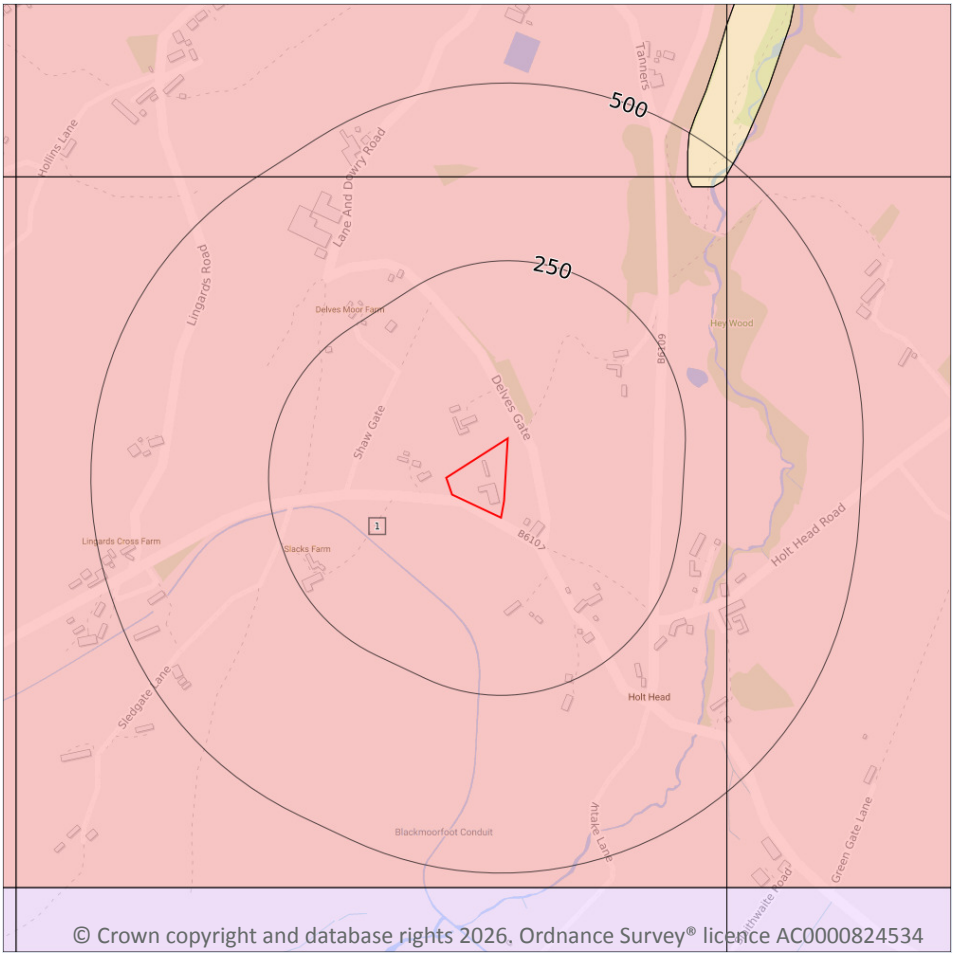
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 33 >**

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

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

Groundwater vulnerability



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	1

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

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

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

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	**Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: >550mm/year**	**Vulnerability: - Aquifer type: - Thickness: 3-10m 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.

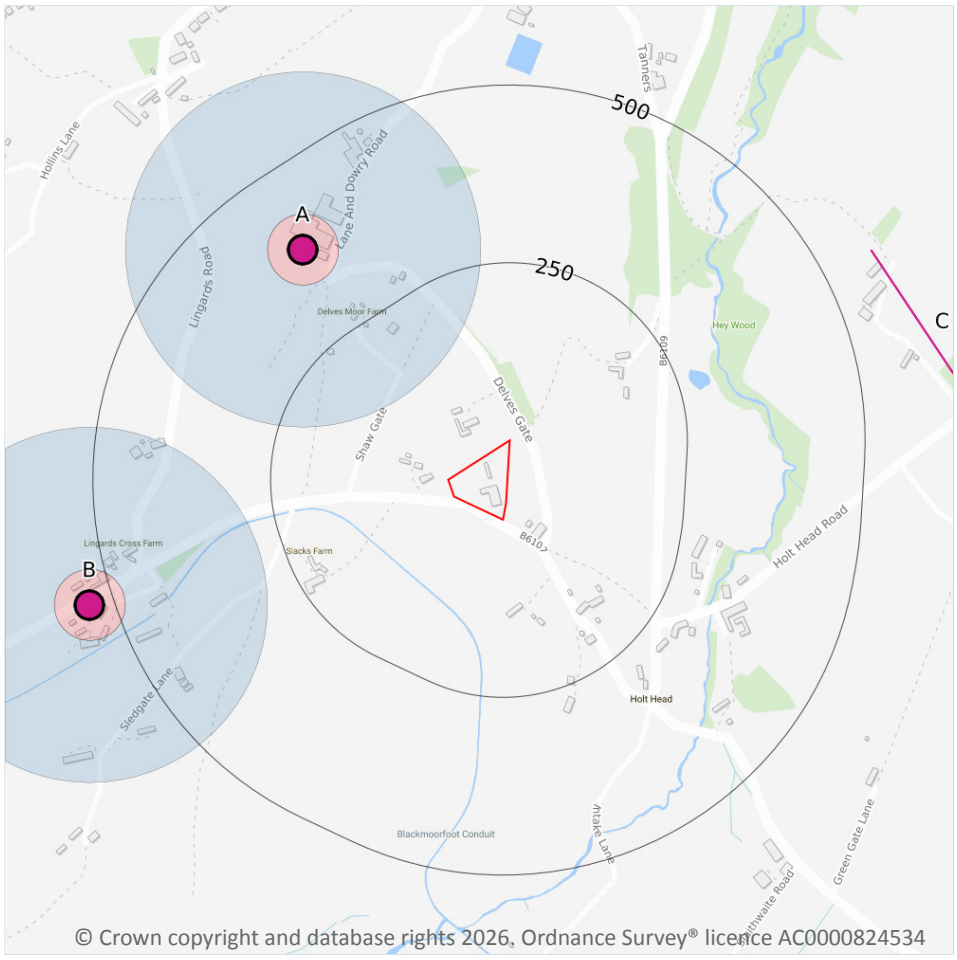
5.5 Groundwater vulnerability- local information

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



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5.6 Groundwater abstractions

Records within 2000m	17

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	
A	383m NW	Status: Active Licence No: 2/27/11/099 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING - LINGARDS LANE - SLAITHWAITE Data Type: Point Name: THE DARTMOUTH YORKSHIRE ESTATE Easting: 407400 Northing: 412900	Annual Volume (m^3): 7467 Max Daily Volume (m^3): 20.46 Original Application No: 430(12) Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
A	383m NW	Status: Historical Licence No: 2/27/11/099 Details: Raw Water Supply Direct Source: GROUNDWATERS Point: LINGARDS LANE SPRING Data Type: Point Name: THE DARTMOUTH YORKSHIRE ESTATE Easting: 407400 Northing: 412900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -
A	383m NW	Status: Historical Licence No: 2/27/11/099 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: LINGARDS LANE SPRING Data Type: Point Name: THE DARTMOUTH YORKSHIRE ESTATE Easting: 407400 Northing: 412900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -
A	383m NW	Status: Historical Licence No: 2/27/11/099 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING - LINGARDS LANE Data Type: Point Name: THE DARTMOUTH YORKSHIRE ESTATE Easting: 407400 Northing: 412900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -
B	535m W	Status: Active Licence No: 2/27/11/099 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING - DOWRY - SLAITHWAITE Data Type: Point Name: THE DARTMOUTH YORKSHIRE ESTATE Easting: 407100 Northing: 412400	Annual Volume (m^3): 7467 Max Daily Volume (m^3): 20.46 Original Application No: 430(12) Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -

ID	Location	Details	
B	535m W	Status: Historical Licence No: 2/27/11/099 Details: Raw Water Supply Direct Source: GROUNDWATERS Point: DOWRY SPRING Data Type: Point Name: THE DARTMOUTH YORKSHIRE ESTATE Easting: 407100 Northing: 412400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -
B	535m W	Status: Historical Licence No: 2/27/11/099 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: DOWRY SPRING Data Type: Point Name: THE DARTMOUTH YORKSHIRE ESTATE Easting: 407100 Northing: 412400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -
C	575m NE	Status: Historical Licence No: 2/27/11/121 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: GRAVITY Data Type: Line Name: GARSIDE Easting: 408400 Northing: 412600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -
C	575m NE	Status: Historical Licence No: 2/27/11/121 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING - SLAITHWAITE Data Type: Line Name: GARSIDE Easting: 408400 Northing: 412600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -
-	908m NE	Status: Active Licence No: 2/27/11/157 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - MILLSTONE GRIT - SLAITHWAITE Data Type: Point Name: Hinchliffe Partnership LLP Easting: 408400 Northing: 413200	Annual Volume (m^3): 11600 Max Daily Volume (m^3): 31.8 Original Application No: NPS/WR/040755 Original Start Date: 02/06/1971 Expiry Date: - Issue No: 102 Version Start Date: 06/02/2024 Version End Date: -

ID	Location	Details	
-	908m NE	Status: Historical Licence No: 2/27/11/157 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: HINCHLIFFE Easting: 408400 Northing: 413200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 02/06/1971 Expiry Date: - Issue No: 100 Version Start Date: 02/06/1971 Version End Date: -
-	967m SW	Status: Active Licence No: 2/27/11/099 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING - OS FIELD 1816 Data Type: Point Name: THE DARTMOUTH YORKSHIRE ESTATE Easting: 406900 Northing: 411900	Annual Volume (m^3): 7467 Max Daily Volume (m^3): 20.46 Original Application No: 430(12) Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
-	967m SW	Status: Historical Licence No: 2/27/11/099 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING Data Type: Point Name: THE DARTMOUTH YORKSHIRE ESTATE Easting: 406900 Northing: 411900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -
-	967m SW	Status: Historical Licence No: 2/27/11/099 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING-OS FIELD 1816 Data Type: Point Name: THE DARTMOUTH YORKSHIRE ESTATE Easting: 406900 Northing: 411900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -
-	967m SW	Status: Historical Licence No: 2/27/11/099 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING-OS FIELD 1816 Data Type: Point Name: THE DARTMOUTH YORKSHIRE ESTATE Easting: 406900 Northing: 411900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -

ID	Location	Details	
-	1172m N	Status: Active Licence No: 2/27/11/113 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - MILLSTONE GRIT - SLAITHWAITE Data Type: Point Name: M and M Haskell Ltd Easting: 407600 Northing: 413800	Annual Volume (m^3): 102273 Max Daily Volume (m^3): 409.09 Original Application No: NPS/WR/042492 Original Start Date: 28/04/1966 Expiry Date: - Issue No: 102 Version Start Date: 30/05/2024 Version End Date: -
-	1172m N	Status: Historical Licence No: 2/27/11/113 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: ROYDS PROPERTIES LIMITED Easting: 407600 Northing: 413800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 05/01/1998 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**39**

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	
-	948m SW	Status: Historical Licence No: 2/27/11/065 Details: Potable Water Supply - Direct Direct Source: SURFACE WATER Point: SPRING -DEERHILL RESERVOIR Data Type: Point Name: YORKSHIRE WATER SERVICES LTD Easting: 407200 Northing: 411700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 27/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 19/12/1980 Version End Date: -

ID	Location	Details	
-	948m SW	Status: Historical Licence No: 2/27/11/065 Details: Potable Water Supply - Direct Direct Source: SURFACE WATER Point: DEERHILL RESERVOIR Data Type: Point Name: Yorkshire Water Services Ltd Easting: 407200 Northing: 411700	Annual Volume (m^3): 12410000 Max Daily Volume (m^3): 12410000 Original Application No: NPS/WR/012982 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 07/03/2013 Version End Date: -
-	1090m S	Status: Active Licence No: 2/27/11/065 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: DEERHILL Data Type: Point Name: Yorkshire Water Services Ltd Easting: 407300 Northing: 411500	Annual Volume (m^3): 12410000 Max Daily Volume (m^3): - Original Application No: NPS/WR/037304 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 07/03/2023 Version End Date: -
-	1090m S	Status: Active Licence No: 2/27/11/065 Details: Potable Water Supply - Direct Direct Source: SURFACE WATER Point: DEERHILL Data Type: Point Name: Yorkshire Water Services Ltd Easting: 407300 Northing: 411500	Annual Volume (m^3): 12410000 Max Daily Volume (m^3): - Original Application No: NPS/WR/037304 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 07/03/2023 Version End Date: -
-	1171m N	Status: Historical Licence No: 2/27/11/100 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE Data Type: Line Name: BROOK GROUP (HOLDINGS) LTD Easting: 407780 Northing: 413800	Annual Volume (m^3): 181840 Max Daily Volume (m^3): 909.2 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 101 Version Start Date: 26/03/2008 Version End Date: -
-	1172m N	Status: Historical Licence No: 2/27/11/184 Details: General Washing/Process Washing Direct Source: SURFACE WATER Point: HUDDERSFIELD NARROW CANAL - SLAITHWAITE Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 407600 Northing: 413800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 09/03/2000 Expiry Date: - Issue No: 1 Version Start Date: 09/03/2000 Version End Date: -

ID	Location	Details	
-	1270m N	Status: Historical Licence No: 2/27/11/146 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: HUDDERSFIELD CANAL Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 407770 Northing: 413900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/06/1969 Version End Date: -
-	1270m N	Status: Historical Licence No: 2/27/11/146 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: HUDDERSFIELD CANAL - SLAITHWAITE Data Type: Point Name: BRITISH WATERWAYS Easting: 407770 Northing: 413900	Annual Volume (m^3): 45460 Max Daily Volume (m^3): 124.55 Original Application No: - Original Start Date: 26/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/06/1969 Version End Date: -
-	1332m N	Status: Historical Licence No: 2/27/11/008 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE Data Type: Point Name: GLOBE WORSTED CO Easting: 408100 Northing: 413900	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: 01/12/1965 Version End Date: -
-	1494m N	Status: Active Licence No: NE/027/0011/025 Details: Supply To A Canal For Throughflow Direct Source: SURFACE WATER Point: SLAITHWAITE RESERVOIR Data Type: Point Name: Canal and River Trust Easting: 407515 Northing: 414116	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/WR/044145 Original Start Date: 26/03/2021 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 21/02/2025 Version End Date: -

ID	Location	Details	
-	1494m N	Status: Historical Licence No: NE/027/0011/025 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: SLAITHWAITE RESERVOIR Data Type: Point Name: Canal and River Trust Easting: 407515 Northing: 414116	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 26/03/2021 Version End Date: -
-	1505m W	Status: Historical Licence No: 2/27/11/110 Details: Milling & Water Power Other Than Electricity Generation Direct Source: SURFACE WATER Point: RIVER COLNE Data Type: Point Name: LILA HURST LTD Easting: 406100 Northing: 412600	Annual Volume (m^3): 110013 Max Daily Volume (m^3): 287.762 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/09/1987 Version End Date: -
-	1583m N	Status: Active Licence No: NE/027/0011/026 Details: Supply To A Canal For Throughflow Direct Source: SURFACE WATER Point: MERRY DALE CLOUGH Data Type: Point Name: Canal and River Trust Easting: 407536 Northing: 414207	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/WR/044145 Original Start Date: 26/03/2021 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 21/02/2025 Version End Date: -
-	1583m N	Status: Historical Licence No: NE/027/0011/026 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: MERRY DALE CLOUGH Data Type: Point Name: Canal and River Trust Easting: 407536 Northing: 414207	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 26/03/2021 Version End Date: -
-	1601m W	Status: Active Licence No: 2/27/11/108 Details: Lake & Pond Throughflow Direct Source: SURFACE WATER Point: CELLARS CLOUGH-MARSDEN Data Type: Point Name: Cellars Clough Properties Ltd Easting: 406030 Northing: 412290	Annual Volume (m^3): 4091481 Max Daily Volume (m^3): 23867 Original Application No: NPS/WR/018590 Original Start Date: 28/04/1966 Expiry Date: - Issue No: 104 Version Start Date: 04/03/2015 Version End Date: -

ID	Location	Details	
-	1601m W	Status: Historical Licence No: 2/27/11/109 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: CELLARS CLOUGH-MARSDEN Data Type: Point Name: SMITH DEVELOPMENTS LTD Easting: 406030 Northing: 412290	Annual Volume (m^3): 18184 Max Daily Volume (m^3): 72.7 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/10/2004 Version End Date: -
-	1601m W	Status: Historical Licence No: 2/27/11/109 Details: Boiler Feed Direct Source: SURFACE WATER Point: CELLARS CLOUGH-MARSDEN Data Type: Point Name: SMITH DEVELOPMENTS LTD Easting: 406030 Northing: 412290	Annual Volume (m^3): 18184 Max Daily Volume (m^3): 72.7 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/10/2004 Version End Date: -
-	1629m W	Status: Historical Licence No: 2/27/11/109 Details: Boiler Feed Direct Source: SURFACE WATER Point: CELLARS CLOUGH Data Type: Point Name: COOPER Easting: 406000 Northing: 412300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 29/05/1990 Version End Date: -
-	1629m W	Status: Historical Licence No: 2/27/11/109 Details: Boiler Feed Direct Source: SURFACE WATER Point: CELLARS CLOUGH Data Type: Point Name: COOPER Easting: 406000 Northing: 412300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 29/05/1990 Version End Date: -
-	1629m W	Status: Historical Licence No: 2/27/11/109 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: CELLARS CLOUGH Data Type: Point Name: COOPER Easting: 406000 Northing: 412300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 29/05/1990 Version End Date: -

ID	Location	Details	
-	1807m W	Status: Historical Licence No: 2/27/11/109 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: PARK GATE CLOUGH Data Type: Point Name: COOPER Easting: 405800 Northing: 412500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 29/05/1990 Version End Date: -
-	1807m W	Status: Historical Licence No: 2/27/11/109 Details: Boiler Feed Direct Source: SURFACE WATER Point: PARK GATE CLOUGH Data Type: Point Name: COOPER Easting: 405800 Northing: 412500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 29/05/1990 Version End Date: -
-	1807m W	Status: Historical Licence No: 2/27/11/109 Details: Boiler Feed Direct Source: SURFACE WATER Point: PARK GATE CLOUGH Data Type: Point Name: COOPER Easting: 405800 Northing: 412500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 29/05/1990 Version End Date: -
-	1808m W	Status: Active Licence No: 2/27/11/108 Details: Lake & Pond Throughflow Direct Source: SURFACE WATER Point: PARK GATE CLOUGH-MARSDEN Data Type: Point Name: Cellars Clough Properties Ltd Easting: 405800 Northing: 412480	Annual Volume (m^3): 4091481 Max Daily Volume (m^3): 23867 Original Application No: NPS/WR/018590 Original Start Date: 28/04/1966 Expiry Date: - Issue No: 104 Version Start Date: 04/03/2015 Version End Date: -
-	1808m W	Status: Historical Licence No: 2/27/11/109 Details: Boiler Feed Direct Source: SURFACE WATER Point: PARK GATE CLOUGH-MARSDEN Data Type: Point Name: SMITH DEVELOPMENTS LTD Easting: 405800 Northing: 412480	Annual Volume (m^3): 18184 Max Daily Volume (m^3): 72.7 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/10/2004 Version End Date: -

ID	Location	Details	
-	1808m W	Status: Historical Licence No: 2/27/11/109 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: PARK GATE CLOUGH-MARSDEN Data Type: Point Name: SMITH DEVELOPMENTS LTD Easting: 405800 Northing: 412480	Annual Volume (m^3): 18184 Max Daily Volume (m^3): 72.7 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/10/2004 Version End Date: -
-	1865m NW	Status: Active Licence No: NE/027/0011/026 Details: Supply To A Canal For Throughflow Direct Source: SURFACE WATER Point: MERRY DALE CLOUGH Data Type: Point Name: Canal and River Trust Easting: 406920 Northing: 414330	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/WR/044145 Original Start Date: 26/03/2021 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 21/02/2025 Version End Date: -
-	1865m NW	Status: Historical Licence No: NE/027/0011/026 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: MERRY DALE CLOUGH Data Type: Point Name: Canal and River Trust Easting: 406920 Northing: 414330	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 26/03/2021 Version End Date: -
-	1933m W	Status: Active Licence No: NE/027/0011/024 Details: Supply To A Canal For Throughflow Direct Source: SURFACE WATER Point: PARK GATE CLOUGH, MARSDEN, HUDDERSFIELD Data Type: Point Name: Canal and River Trust Easting: 405673 Northing: 412544	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/WR/044145 Original Start Date: 26/03/2021 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 21/02/2025 Version End Date: -
-	1933m W	Status: Historical Licence No: NE/027/0011/024 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: PARK GATE CLOUGH, MARSDEN, HUDDERSFIELD Data Type: Point Name: Canal and River Trust Easting: 405673 Northing: 412544	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: - Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 26/03/2021 Version End Date: -

ID	Location	Details	
-	1936m NE	Status: Historical Licence No: 2/27/11/179 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: SURFACE WATER Point: RIVER COLNE Data Type: Line Name: GROSVENOR CHEMICALS LIMITED Easting: 408820 Northing: 414230	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 09/02/1996 Expiry Date: - Issue No: 100 Version Start Date: 09/02/1996 Version End Date: -
-	1936m NE	Status: Historical Licence No: 2/27/11/179 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: SURFACE WATER Point: RIVER COLNE - LINTHWAITE Data Type: Line Name: GROSVENOR CHEMICALS LTD Easting: 408820 Northing: 414230	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 09/02/1996 Expiry Date: - Issue No: 100 Version Start Date: 09/02/1996 Version End Date: -
-	1937m NW	Status: Historical Licence No: 2/27/11/114 Details: Milling & Water power other than electricity generation Direct Source: SURFACE WATER Point: SPRING - NEAR MILL DAM Data Type: Point Name: DR FRANCES COLE & DR JUDITH HOOPER Easting: 406900 Northing: 414400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/12/1995 Version End Date: -
-	1937m NW	Status: Historical Licence No: 2/27/11/114 Details: Milling & Water Power Other Than Electricity Generation Direct Source: SURFACE WATER Point: SPRING - NEAR MILL DAM Data Type: Point Name: DR FRANCES COLE & DR JUDITH HOOPER Easting: 406900 Northing: 414400	Annual Volume (m^3): 2727600 Max Daily Volume (m^3): 27276 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/12/1995 Version End Date: -

ID	Location	Details	
-	1993m NW	Status: Historical Licence No: 2/27/11/114 Details: Milling & Water Power Other Than Electricity Generation Direct Source: SURFACE WATER Point: MERRYDALE CLOUGH Data Type: Point Name: DR FRANCES COLE & DR JUDITH HOOPER Easting: 406600 Northing: 414300	Annual Volume (m^3): 2727600 Max Daily Volume (m^3): 27276 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/12/1995 Version End Date: -
-	1993m NW	Status: Historical Licence No: 2/27/11/114 Details: Milling & Water Power Other Than Electricity Generation Direct Source: SURFACE WATER Point: BARRETT CLOUGH AND SPRING TO DAM Data Type: Point Name: DR FRANCES COLE & DR JUDITH HOOPER Easting: 406600 Northing: 414300	Annual Volume (m^3): 2727600 Max Daily Volume (m^3): 27276 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/12/1995 Version End Date: -
-	1993m NW	Status: Historical Licence No: 2/27/11/114 Details: Milling & Water Power Other Than Electricity Generation Direct Source: SURFACE WATER Point: MERRYDALE CLOUGH - SLAITHWAITE Data Type: Point Name: DR FRANCES COLE & DR JUDITH HOOPER Easting: 406600 Northing: 414300	Annual Volume (m^3): 2727600 Max Daily Volume (m^3): 27276 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/12/1995 Version End Date: -
-	1996m W	Status: Active Licence No: NE/027/0011/027 Details: Supply To A Canal For Throughflow Direct Source: SURFACE WATER Point: SPARTH RESERVOIR Data Type: Point Name: Canal and River Trust Easting: 405610 Northing: 412532	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/WR/044145 Original Start Date: 26/03/2021 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 21/02/2025 Version End Date: -

ID	Location	Details	
-	1996m W	Status: Historical Licence No: NE/027/0011/027 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: SPARTH RESERVOIR Data Type: Point Name: Canal and River Trust Easting: 405610 Northing: 412532	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 26/03/2021 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m **3**

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.

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

ID	Location	Details	
-	948m SW	Status: Historical Licence No: 2/27/11/065 Details: Potable Water Supply - Direct Direct Source: SURFACE WATER Point: SPRING -DEERHILL RESERVOIR Data Type: Point Name: YORKSHIRE WATER SERVICES LTD Easting: 407200 Northing: 411700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 27/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 19/12/1980 Version End Date: -
-	948m SW	Status: Historical Licence No: 2/27/11/065 Details: Potable Water Supply - Direct Direct Source: SURFACE WATER Point: DEERHILL RESERVOIR Data Type: Point Name: Yorkshire Water Services Ltd Easting: 407200 Northing: 411700	Annual Volume (m^3): 12410000 Max Daily Volume (m^3): 12410000 Original Application No: NPS/WR/012982 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 07/03/2013 Version End Date: -

ID	Location	Details	
-	1090m S	Status: Active Licence No: 2/27/11/065 Details: Potable Water Supply - Direct Direct Source: SURFACE WATER Point: DEERHILL Data Type: Point Name: Yorkshire Water Services Ltd Easting: 407300 Northing: 411500	Annual Volume (m^3): 12410000 Max Daily Volume (m^3): - Original Application No: NPS/WR/037304 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 07/03/2023 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	**4**

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

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

ID	Location	Type	Description
A	133m NW	2	Outer catchment
B	284m W	2	Outer catchment
A	333m NW	1	Inner catchment
B	484m W	1	Inner catchment

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 NGD)

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 NGD)

Records within 250m	1

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

Features are displayed on the Hydrology map on **page 51 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
2	123m SW	Manmade watercourse for water transfer.	On ground surface	Watercourse contains water year round (in normal circumstances)	Blackmoorfoot Conduit

This data is sourced from the Ordnance Survey®.

6.2 Surface water features

Records within 250m	2

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

Features are displayed on the Hydrology map on **page 51 >**

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 51 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	**On site**	**River**	**Colne from Wessenden Brook to R Holme**	**GB104027063330**	**Colne and Holme**	**Aire and Calder**

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 51 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1013m NW	River	Colne from Wessenden Brook to R Holme	GB104027063330 ↗	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site	1

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

Features are displayed on the Hydrology map on **page 51 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	**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.

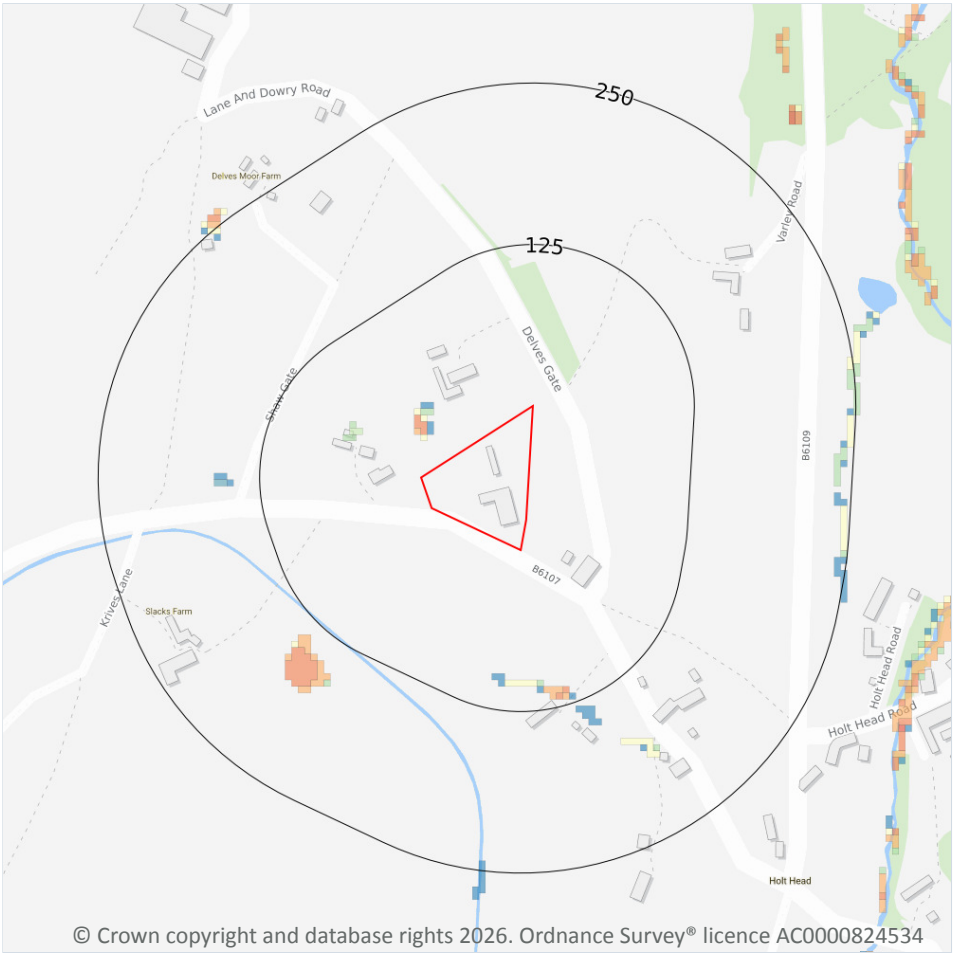
7.7 Flood Zone 3

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



Site Outline
Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site	**Negligible**
Highest risk within 50m	**1 in 30 year, 0.3m - 1.0m**

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

Features are displayed on the Surface water flooding map on **page 57 >**

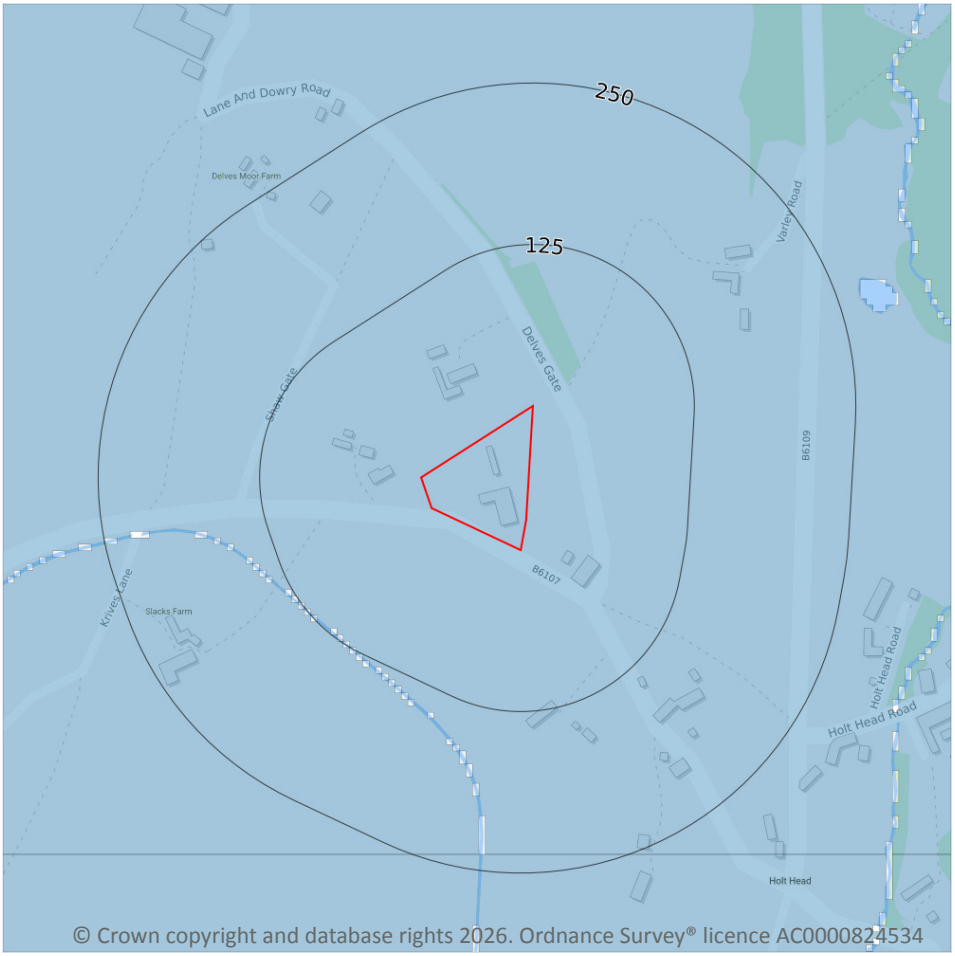
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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

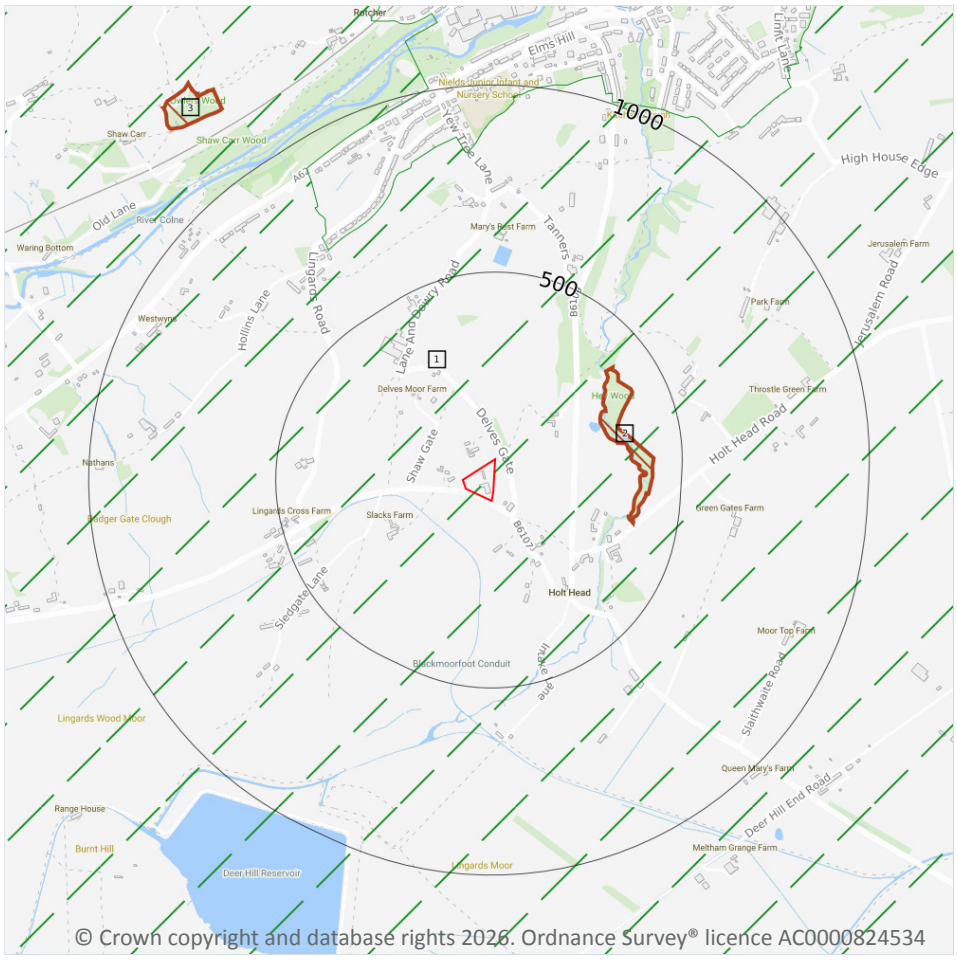
Highest risk on site	**Negligible**
Highest risk within 50m	**Negligible**

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 59 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	1

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.

Features are displayed on the Environmental designations map on **page 60 >**

ID	Location	Name	Data source
-	1505m S	Dark Peak SSSI	Natural England

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	1

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.

Features are displayed on the Environmental designations map on **page 60 >**

ID	Location	Name	Features of interest	Habitat description	Data source
-	1505m S	South Pennine Moors	Wet heathland with cross-leaved heath; Dry heaths; Blanket bog; Very wet mires often identified by an unstable `quaking` surface; Western acidic oak woodland	Inland water bodies (Standing water, Running water); Humid grassland, Mesophile grassland; Mixed woodland; Heath, Scrub, Maquis and Garrigue, Phygrana; Non-forest areas cultivated with woody plants (including Orchards, groves, Vineyards, Dehesas); Bogs, Marshes, Water fringed vegetation, Fens; Broad-leaved deciduous woodland; Dry grassland, Steppes	Natural England

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

10.4 Special Protection Areas (SPA)

Records within 2000m	1

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.

Features are displayed on the Environmental designations map on **page 60 >**

ID	Location	Name	Species of interest	Habitat description	Data source
-	1505m S	Peak District Moors (South Pennine Moors Phase 1)	Merlin; European golden plover; Short-eared owl	Bogs, Marshes, Water fringed vegetation, Fens; Heath, Scrub, Maquis and Garrigue, Phygrana; Inland water bodies (Standing water, Running water); Inland rocks, Screes, Sands, Permanent Snow and ice; Dry grassland, Steppes; Humid grassland, Mesophile grassland; Broad-leaved deciduous woodland	Natural England

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	**2**

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 60 >**

ID	Location	Name	Woodland Type
2	298m E	Hey Wood	Ancient & Semi-Natural Woodland
3	1182m NW	Owlers 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	1

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

Features are displayed on the Environmental designations map on **page 60 >**

ID	Location	Name	Local Authority name
1	**On site**	**South and West Yorkshire Green Belt**	**Kirklees**

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.

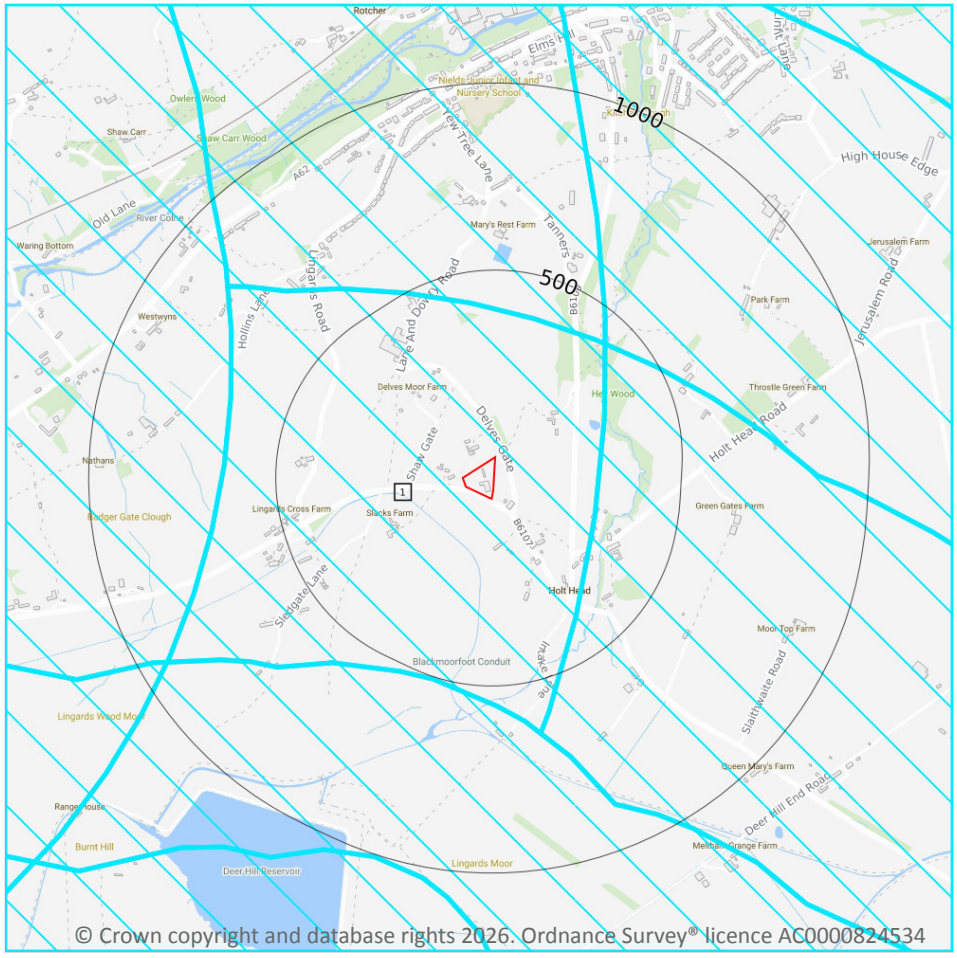
10.16 Nitrate Vulnerable Zones

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



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 66 >**

ID	Location	Type of developments requiring consultation
1	**On site**	**https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0121000322302&notes=&location=407452,412491%20(IRZ%20polygon%20centre)**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	6

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.

Features are displayed on the SSSI Impact Zones and Units map on **page 66 >**

ID: -
Location: 1505m S
SSSI name: Dark Peak
Unit name: Deer Hill Brow
Broad habitat: Bogs - Upland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Upland moorland and grassland with water bodies	Favourable	29/11/2010
Blanket bog and valley bog (upland)	Favourable	29/11/2010
Golden plover, Pluvialis apricaria - A140, b	Favourable	29/11/2010
H7130 Blanket bog	Unfavourable - No change	30/03/2009
Merlin, Falco columbarius - A098, b	Favourable	29/11/2010

ID: -
Location: 1616m SW
SSSI name: Dark Peak
Unit name: Deer Hill Moss
Broad habitat: Bogs - Upland
Condition: Unfavourable - No change
Reportable features:

Feature name	Feature condition	Date of assessment
Acid grassland (upland)	Not Recorded	01/01/1900
Assemblages of breeding birds - Upland moorland and grassland with water bodies	Favourable	07/04/2022
Golden plover, Pluvialis apricaria - A140, b	Favourable	07/04/2022
H7130 Blanket bog	Unfavourable - No change	30/03/2022

ID: -
Location: 1803m S
SSSI name: Dark Peak
Unit name: White Moss
Broad habitat: Acid Grassland - Upland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Acid grassland (upland)	Unfavourable - Recovering	02/10/2012
Assemblages of breeding birds - Upland moorland and grassland with water bodies	Favourable	02/10/2012
Merlin, Falco columbarius - A098, b	Favourable	02/10/2012
Mire grasslands and rush pastures (upland)	Unfavourable - Recovering	02/10/2012

ID: -
Location: 1868m SW
SSSI name: Dark Peak
Unit name: Horseley Head Moss
Broad habitat: Bogs - Upland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Dunlin, Calidris alpina alpina	Favourable	29/02/2012
Assemblages of breeding birds - Upland moorland and grassland with water bodies	Favourable	29/02/2012
Blanket bog and valley bog (upland)	Favourable	29/02/2012
Golden plover, Pluvialis apricaria - A140, b	Favourable	29/02/2012
H7130 Blanket bog	Unfavourable - Recovering	29/02/2012
Merlin, Falco columbarius - A098, b	Favourable	29/02/2012

ID: -
Location: 1950m S
SSSI name: Dark Peak
Unit name: Brow Grain Hill
Broad habitat: Dwarf Shrub Heath - Upland
Condition: Unfavourable - Recovering

Reportable features:

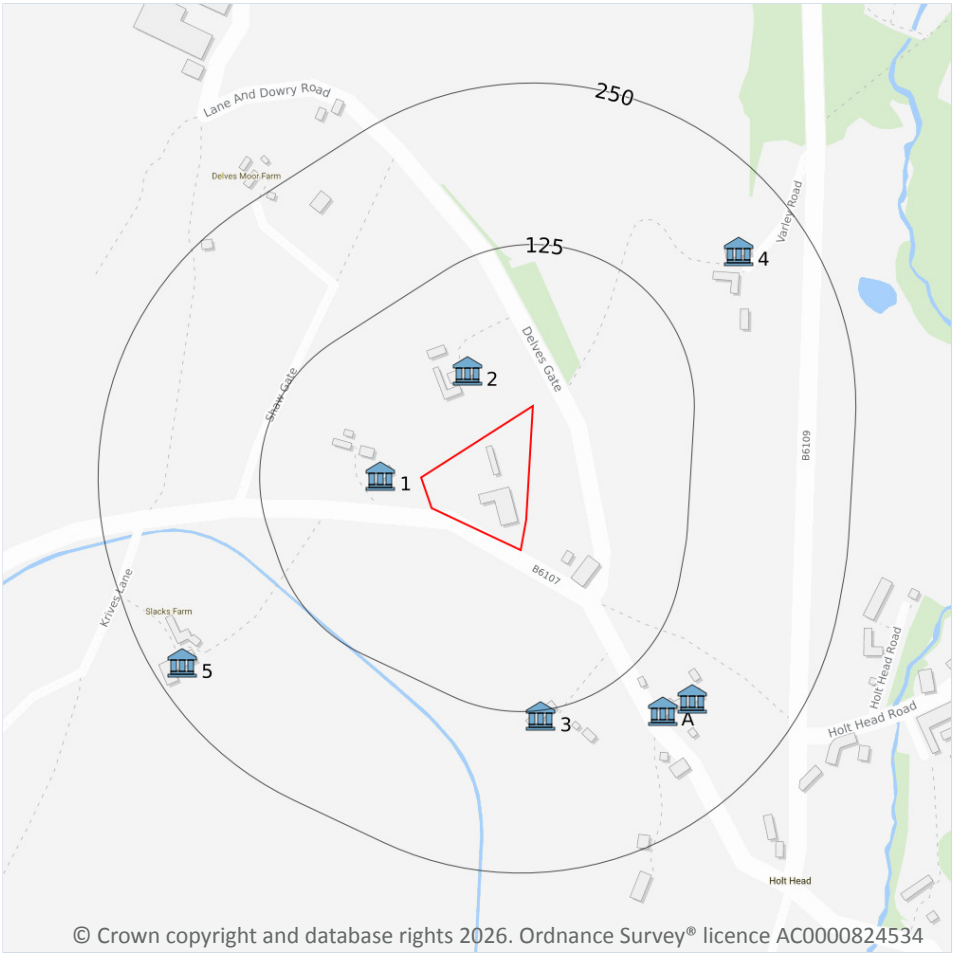
Feature name	Feature condition	Date of assessment
Acid grassland (upland)	Favourable	29/11/2010
Assemblages of breeding birds - Upland moorland and grassland with water bodies	Favourable	29/11/2010
Golden plover, Pluvialis apricaria - A140, b	Favourable	29/11/2010
H4030 European dry heaths	Unfavourable - Recovering	27/03/2009
Merlin, Falco columbarius - A098, b	Favourable	29/11/2010
Short sedge acidic fen (upland)	Not Recorded	01/01/1900
Subalpine dwarf-shrub heath	Favourable	29/11/2010

ID: -
Location: 1980m SW
SSSI name: Dark Peak
Unit name: Binn Moor/leyzing Clough
Broad habitat: Acid Grassland - Upland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Acid grassland (upland)	Not Recorded	01/01/1900
Aggregations of non-breeding birds - Dunlin, Calidris alpina alpina	Not Recorded	01/01/1900
Assemblages of breeding birds - Upland moorland and grassland with water bodies	Favourable	29/11/2010
Golden plover, Pluvialis apricaria - A140, b	Favourable	29/11/2010
Merlin, Falco columbarius - A098, b	Favourable	29/11/2010
Mire grasslands and rush pastures (upland)	Not Recorded	01/01/1900
Subalpine dwarf-shrub heath	Not Recorded	01/01/1900

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	7

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 70 >**

ID	Location	Name	Grade	Reference Number	Listed date
1	31m W	Holt Head	II	1231656	11/07/1985
2	50m NW	2, Delves Gate	II	1233739	11/07/1985
3	130m S	Oak Farmhouse And Barn	II	1234417	11/07/1985
A	166m SE	1-2, Jim Hill	II	1276037	11/07/1985
A	176m SE	3 And 4 Jim Hill	II	1275934	11/07/1985
4	199m NE	Holt Farmhouse And Adjoining Cottage	II	1266644	11/07/1985

ID	Location	Name	Grade	Reference Number	Listed date
5	227m SW	Slacks Farm - Former House And Barn	II	1224149	11/07/1985

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

11.5 Conservation Areas

Records within 250m	0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m	0

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

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

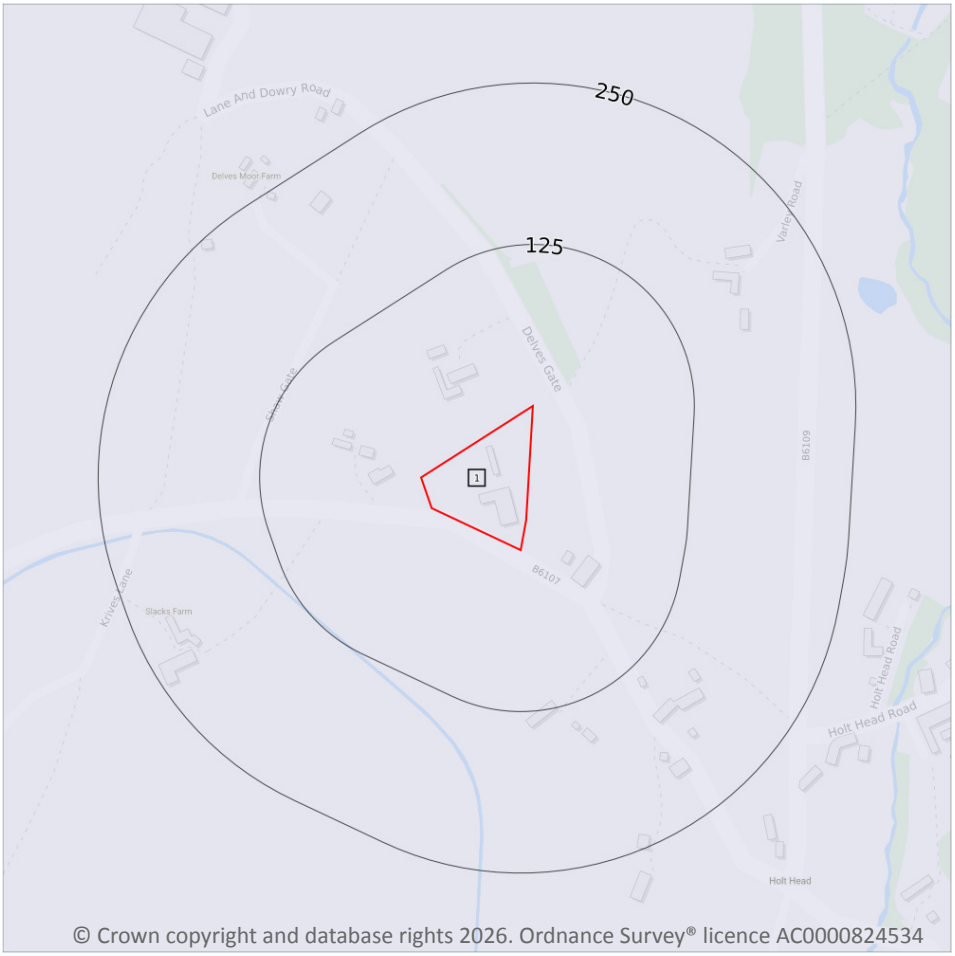
11.7 Registered Parks and Gardens

Records within 250m	0

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

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

12 Agricultural designations



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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 73 >**

ID	Location	Classification	Description
1	On site	Grade 4	**Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.**

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.

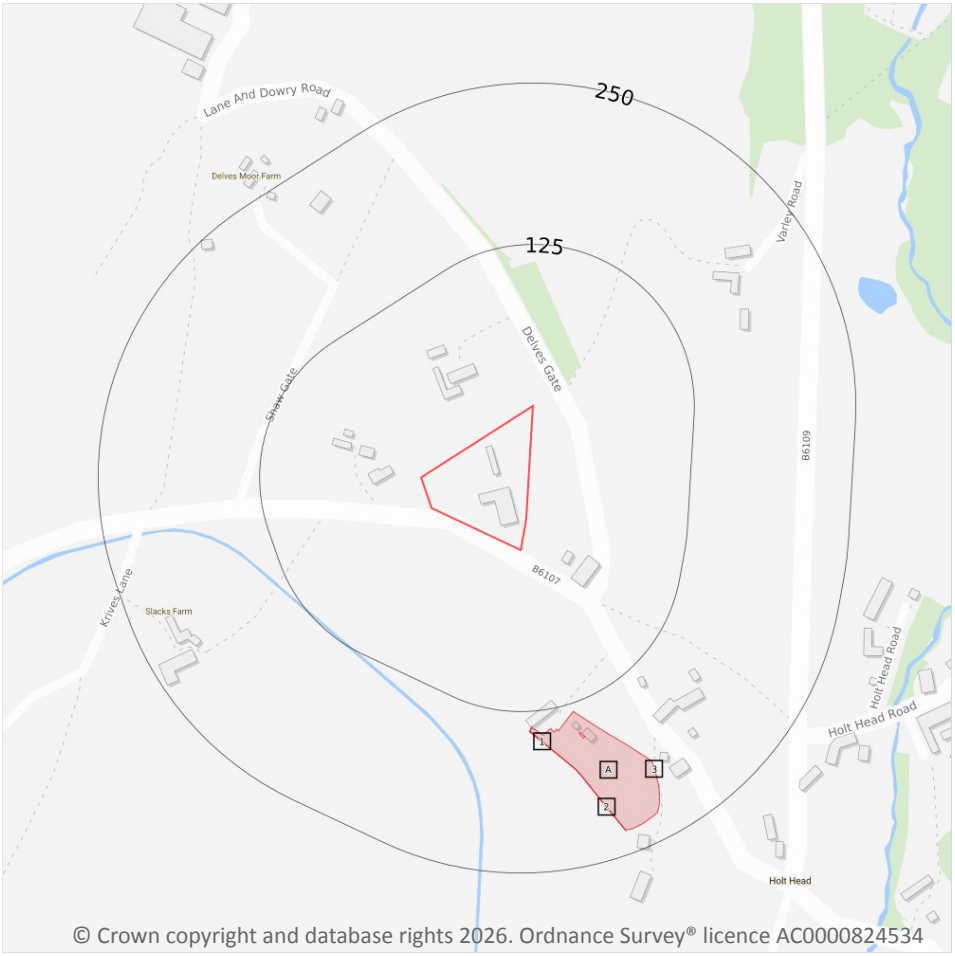
12.5 Countryside Stewardship Schemes

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 75 >**

ID	Location	Main Habitat	Other habitats
A	131m S	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
1	138m S	Traditional orchard	Main habitat: TORCH (INV > 50%)
A	171m S	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
A	179m S	Traditional orchard	Main habitat: TORCH (INV > 50%)

ID	Location	Main Habitat	Other habitats
2	191m S	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
3	197m SE	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0

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

This data is sourced from Natural England.

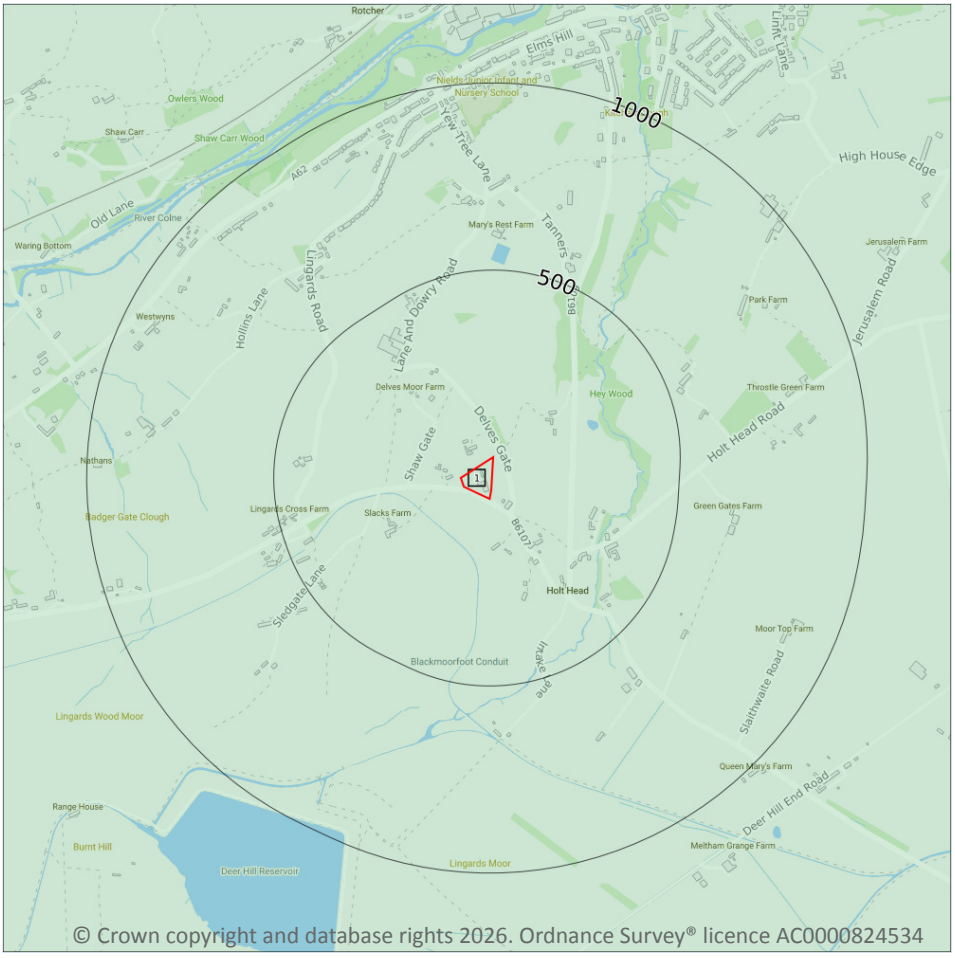
13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m	1

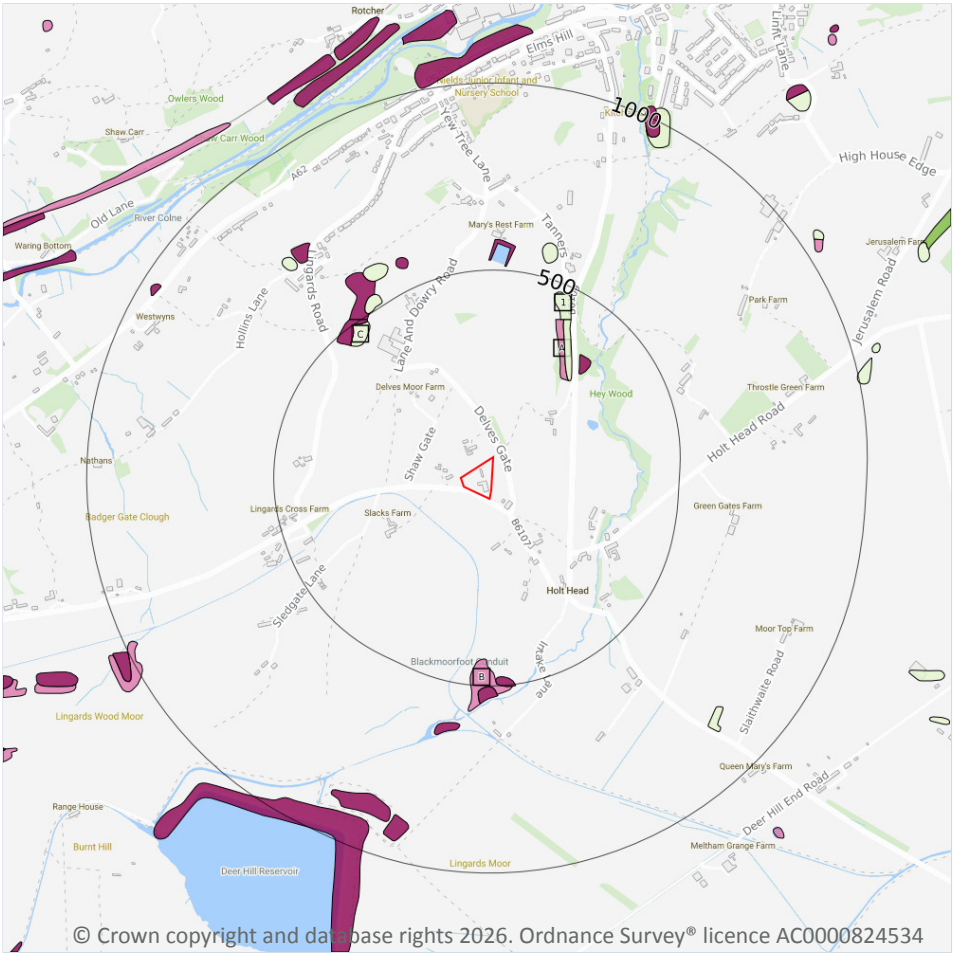
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 77 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**SE01SE**

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	9

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.

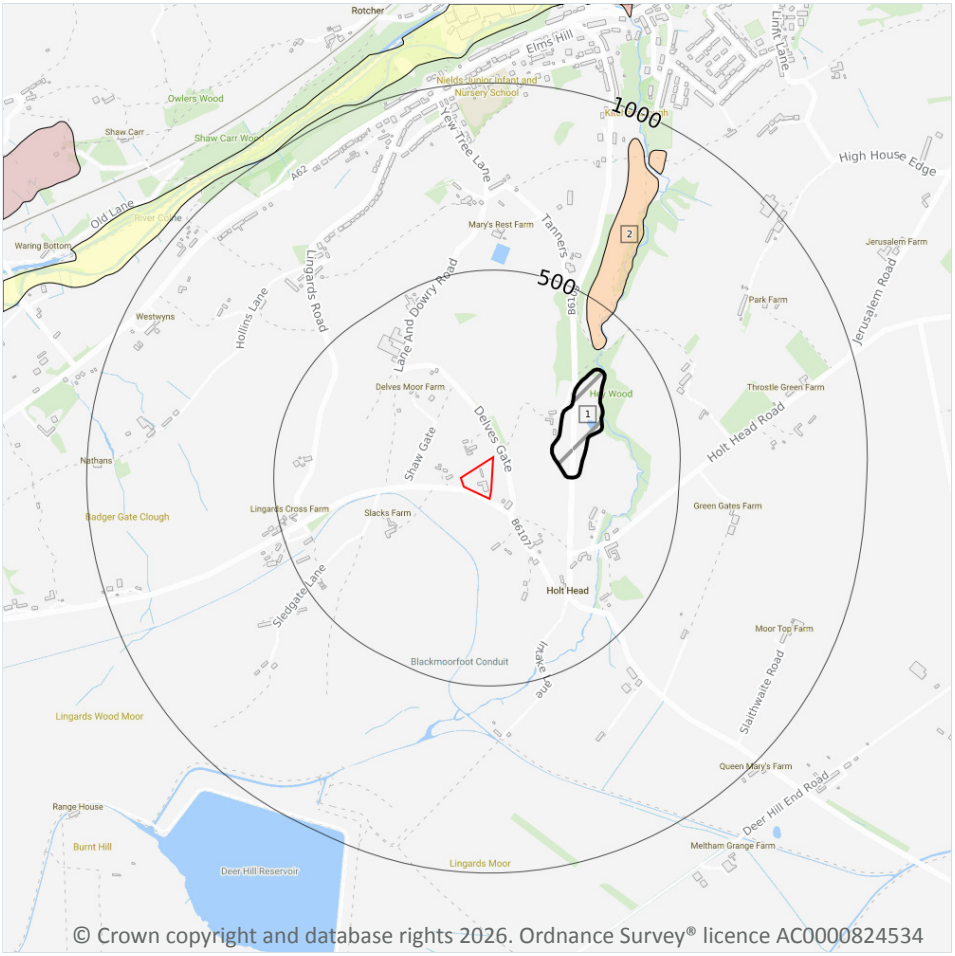
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 78 >**

ID	Location	LEX Code	Description	Rock description
A	279m NE	WGR-VOID	Worked Ground (Undivided)	Void
A	287m NE	WMGR-ARTDP	Infilled Ground	Artificial deposit
A	321m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
1	410m NE	WMGR-ARTDP	Infilled Ground	Artificial deposit

ID	Location	LEX Code	Description	Rock description
B	428m S	WGR-VOID	Worked Ground (Undivided)	Void
C	443m NW	WMGR-ARTDP	Infilled Ground	Artificial deposit
C	459m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
B	476m S	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
C	492m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



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Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m	1

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 80 >**

ID	Location	LEX Code	Description	Rock description
2	397m NE	RTDU-XSV	River Terrace Deposits (Undifferentiated)-Sand And Gravel	Sand and gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	1

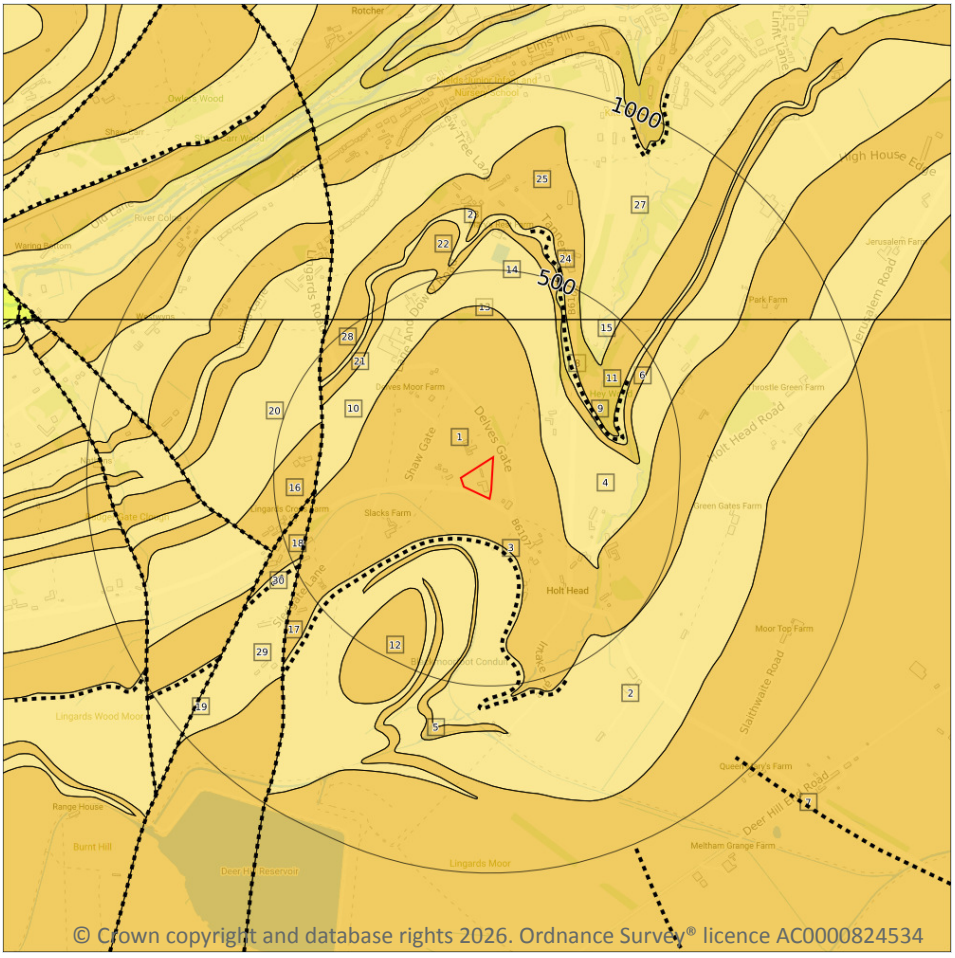
Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 80 >**

ID	Location	LEX Code	Description	Rock description
1	158m E	SLIP-UKNOWN	Landslide deposits	Unknown/unclassified entry

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



14.5 Bedrock geology (10k)

Records within 500m	24

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 82 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**GSYG-SDST**	**Guiseley Grit-Sandstone**	**Namurian**
2	105m S	MARSD-MDSI	Marsden Formation-Mudstone And Siltstone	Namurian
4	136m E	MARSD-MDSI	Marsden Formation-Mudstone And Siltstone	Namurian

ID	Location	LEX Code	Description	Rock age
5	150m SW	MARSD-SDST	Marsden Formation-Sandstone	Namurian
6	254m NE	MGG-SDST	Midgley Grit-Sandstone	Namurian
7	269m SW	HDW-SDST	Huddersfield White Rock-Sandstone	Namurian
8	281m NE	MARSD-MDSI	Marsden Formation-Mudstone And Siltstone	Namurian
10	295m NW	MARSD-MDSI	Marsden Formation-Mudstone And Siltstone	Namurian
11	296m NE	MGG-SDST	Midgley Grit-Sandstone	Namurian
12	302m SW	HDW-SDST	Huddersfield White Rock-Sandstone	Namurian
13	368m N	GSYG-SDST	Guiseley Grit-Sandstone	Namurian
14	370m N	MARSD-MDSI	Marsden Formation-Mudstone And Siltstone	Namurian
15	376m NE	MARSD-MDSI	Marsden Formation-Mudstone And Siltstone	Namurian
16	381m W	GSYG-SDST	Guiseley Grit-Sandstone	Namurian
18	392m W	GSYG-SDST	Guiseley Grit-Sandstone	Namurian
20	400m W	MARSD-MDSI	Marsden Formation-Mudstone And Siltstone	Namurian
21	400m NW	MGG-SDST	Midgley Grit-Sandstone	Namurian
22	404m NE	MGG-SDST	Midgley Grit-Sandstone	Namurian
23	411m NE	MARSD-MDSI	Marsden Formation-Mudstone And Siltstone	Namurian
25	417m NE	MGG-SDST	Midgley Grit-Sandstone	Namurian
26	431m NW	MARSD-MDSI	Marsden Formation-Mudstone And Siltstone	Namurian
27	436m NE	MARSD-MDSI	Marsden Formation-Mudstone And Siltstone	Namurian
28	441m NW	MGG-SDST	Midgley Grit-Sandstone	Namurian
29	474m SW	MARSD-MDSI	Marsden Formation-Mudstone And Siltstone	Namurian

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	6

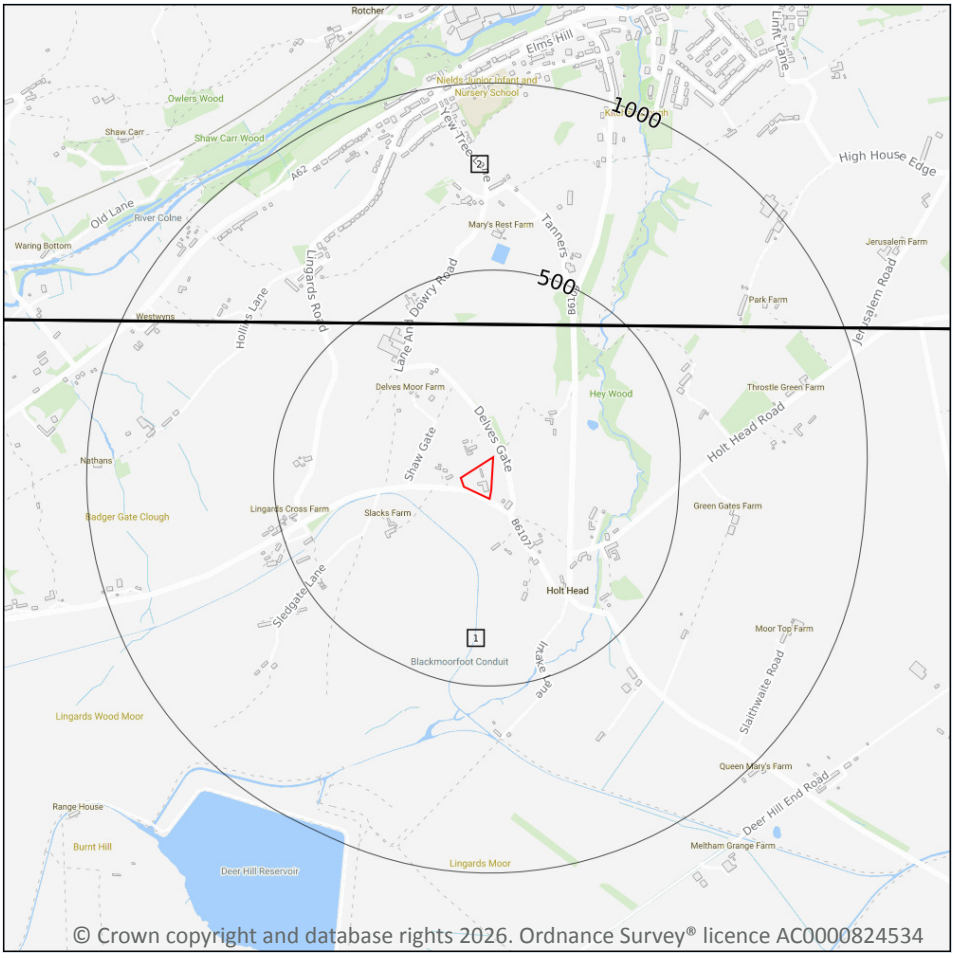
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 82 >**

ID	Location	Category	Description
3	118m S	FOSSIL_HORIZON	Marine band
9	290m NE	FOSSIL_HORIZON	Lingula band
17	381m W	FAULT	Fault, inferred, displacement unknown
19	392m W	FAULT	Fault, inferred, displacement unknown
24	414m NE	FOSSIL_HORIZON	Lingula band
30	489m SW	FOSSIL_HORIZON	Marine band

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



15.1 50k Availability

Records within 500m	2

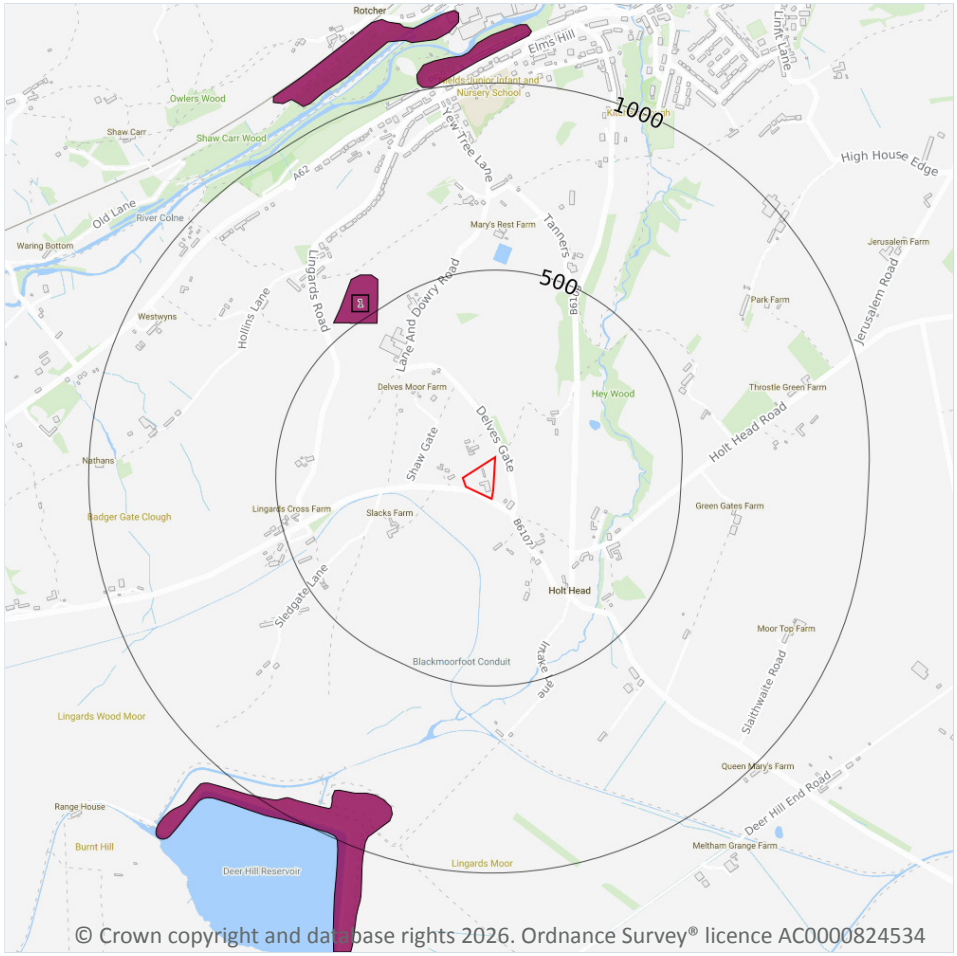
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 85 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW086_glossop_v4**
2	355m N	Full	Full	Full	Full	EW077_huddersfield_v4

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

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

15.2 Artificial and made ground (50k)

Records within 500m	1

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 86 >**

ID	Location	LEX Code	Description	Rock description
1	472m NW	MGR-ARTDP	Made Ground	Artificial deposit

This data is sourced from the British Geological Survey.

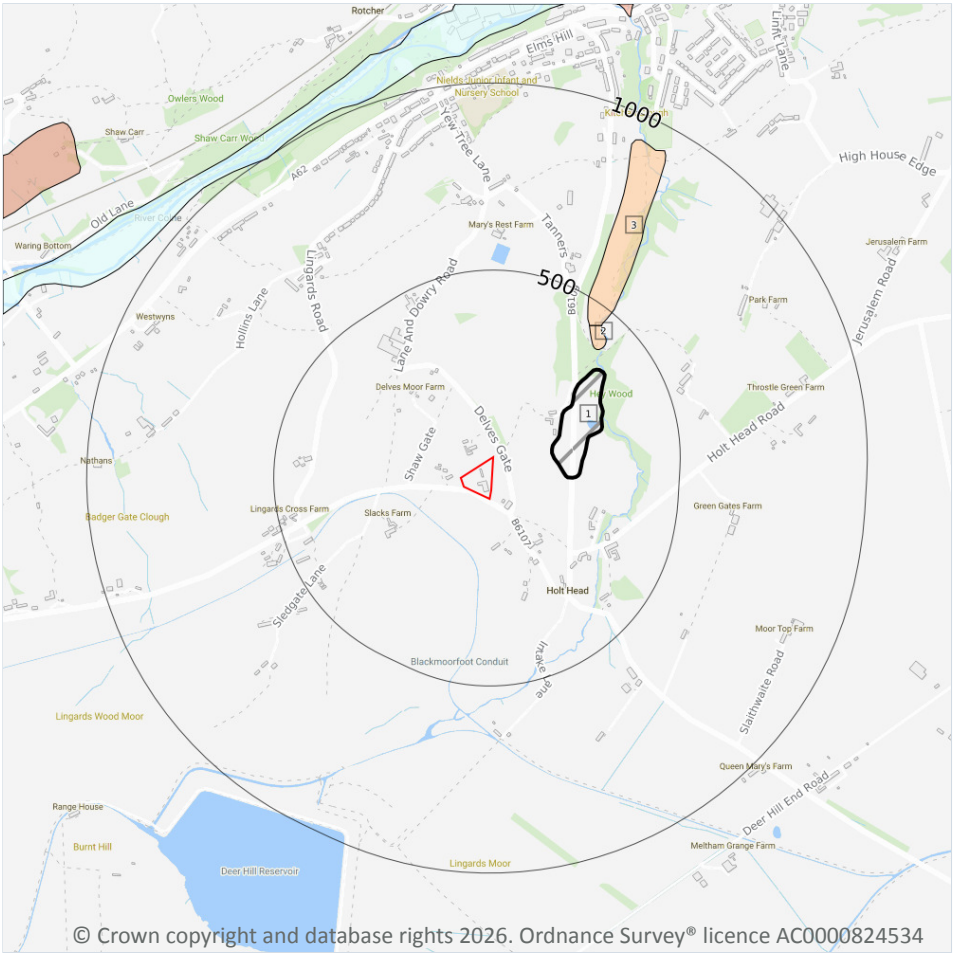
15.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m	2

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 88 >**

ID	Location	LEX Code	Description	Rock description
2	398m NE	RTDU-XSV	River Terrace Deposits (Undifferentiated)	Sand and gravel
3	436m NE	RTDU-XSV	River Terrace Deposits (Undifferentiated)	Sand and gravel

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	1

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.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 88 >**

ID	Location	LEX Code	Description	Rock description
1	158m E	SLIP-UKNOWN	Landslide deposits	Unknown/unclassified entry

This data is sourced from the British Geological Survey.

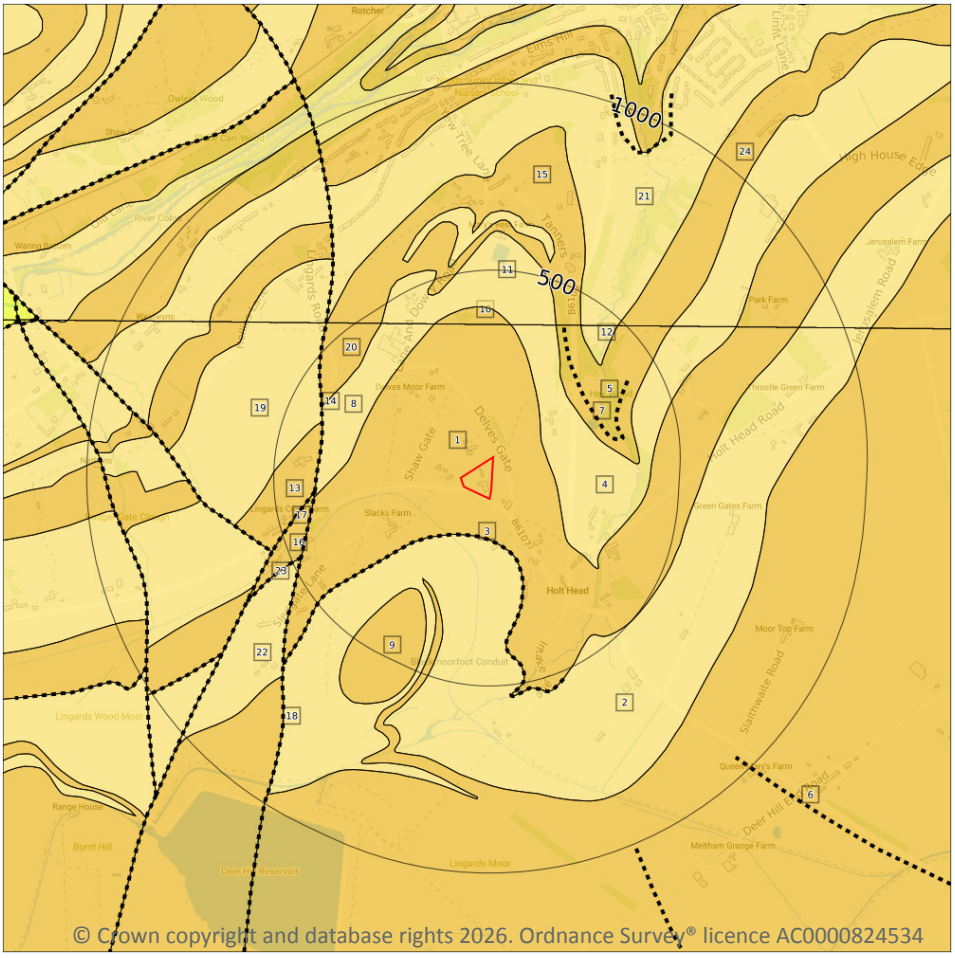
15.7 Landslip permeability (50k)

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 **18**

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 90 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**GSYG-SDST**	**Guiseley Grit-Sandstone**	**Namurian**
2	105m S	MARSD-MDSI	Marsden Formation-Mudstone and siltstone	Namurian
4	135m E	MARSD-MDSI	Marsden Formation-Mudstone and siltstone	Namurian

ID	Location	LEX Code	Description	Rock age
5	254m NE	MGG-SDST	Midgley Grit-Sandstone	Namurian
6	269m SW	HDW-SDST	Huddersfield White Rock-Sandstone	Namurian
8	295m W	MARSD-MDSI	Marsden Formation-Mudstone and siltstone	Namurian
9	301m SW	HDW-SDST	Huddersfield White Rock-Sandstone	Namurian
10	355m N	GSYG-SDST	Guiseley Grit-Sandstone	Namurian
11	357m N	MARSD-MDSI	Marsden Formation-Mudstone and siltstone	Namurian
12	376m NE	MARSD-MDSI	Marsden Formation-Mudstone and siltstone	Namurian
13	381m W	GSYG-SDST	Guiseley Grit-Sandstone	Namurian
15	391m NE	MGG-SDST	Midgley Grit-Sandstone	Namurian
16	392m W	GSYG-SDST	Guiseley Grit-Sandstone	Namurian
19	399m W	MARSD-MDSI	Marsden Formation-Mudstone and siltstone	Namurian
20	400m NW	MGG-SDST	Midgley Grit-Sandstone	Namurian
21	424m NE	MARSD-MDSI	Marsden Formation-Mudstone and siltstone	Namurian
22	474m SW	MARSD-MDSI	Marsden Formation-Mudstone and siltstone	Namurian
24	485m NE	MGG-SDST	Midgley Grit-Sandstone	Namurian

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	**1**

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Fracture**	**High**	**Moderate**

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	6

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 90 >**

ID	Location	Category	Description
3	105m S	FOSSIL_HORIZON	Marine band
7	291m NE	FOSSIL_HORIZON	Lingula band
14	381m W	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
17	392m W	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
18	392m W	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
23	474m SW	FOSSIL_HORIZON	Marine band

This data is sourced from the British Geological Survey.

16 Boreholes

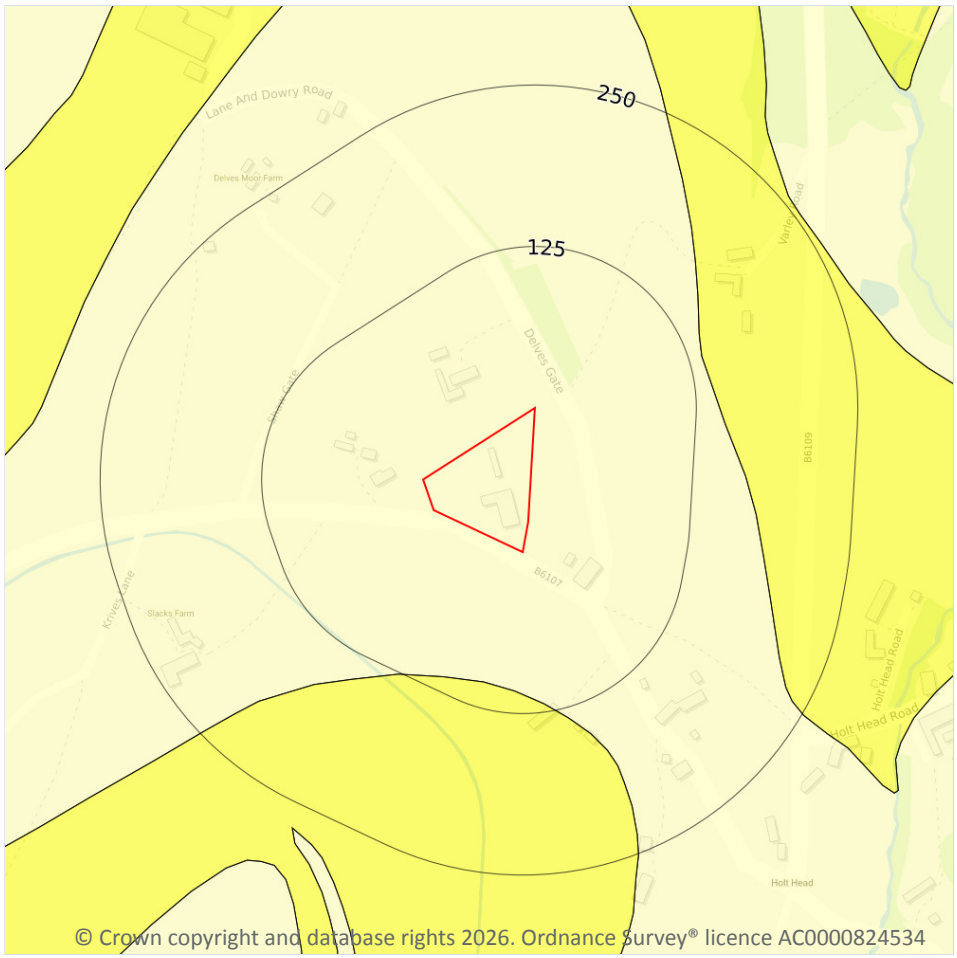
16.1 BGS Boreholes

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	1

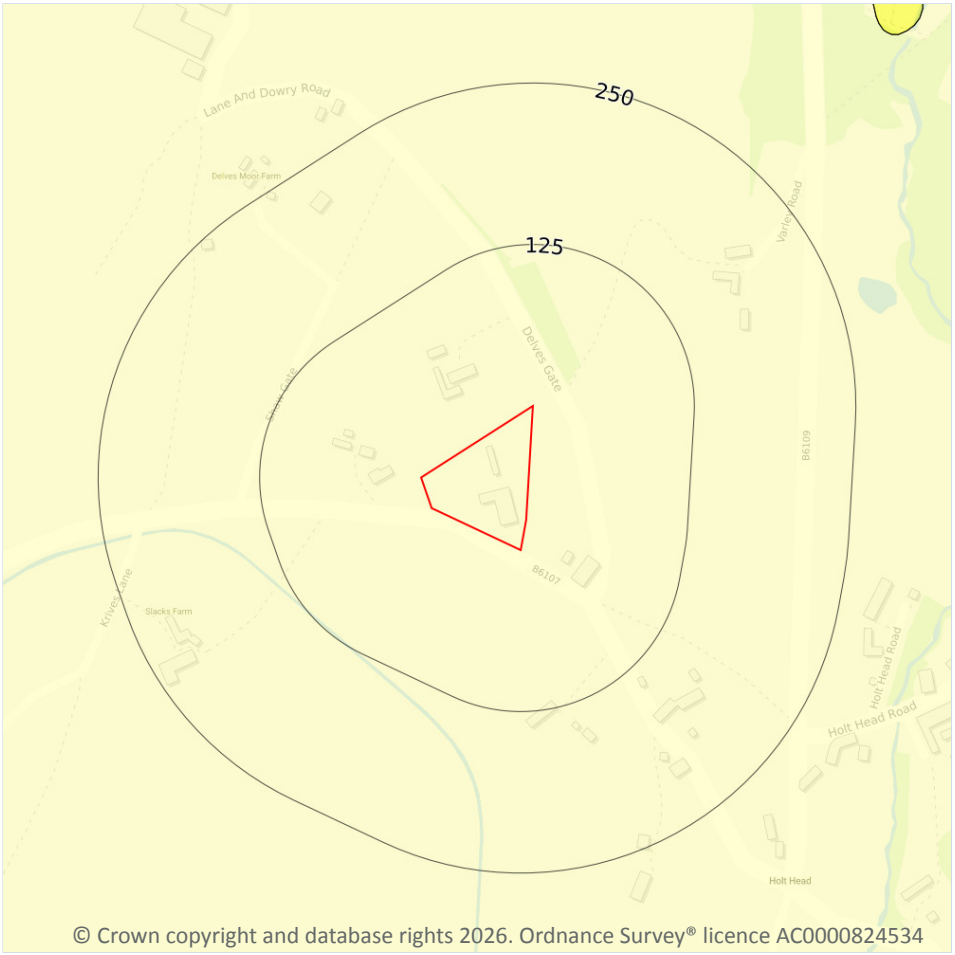
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 94 >**

Location	Hazard rating	Details
On site	**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	1

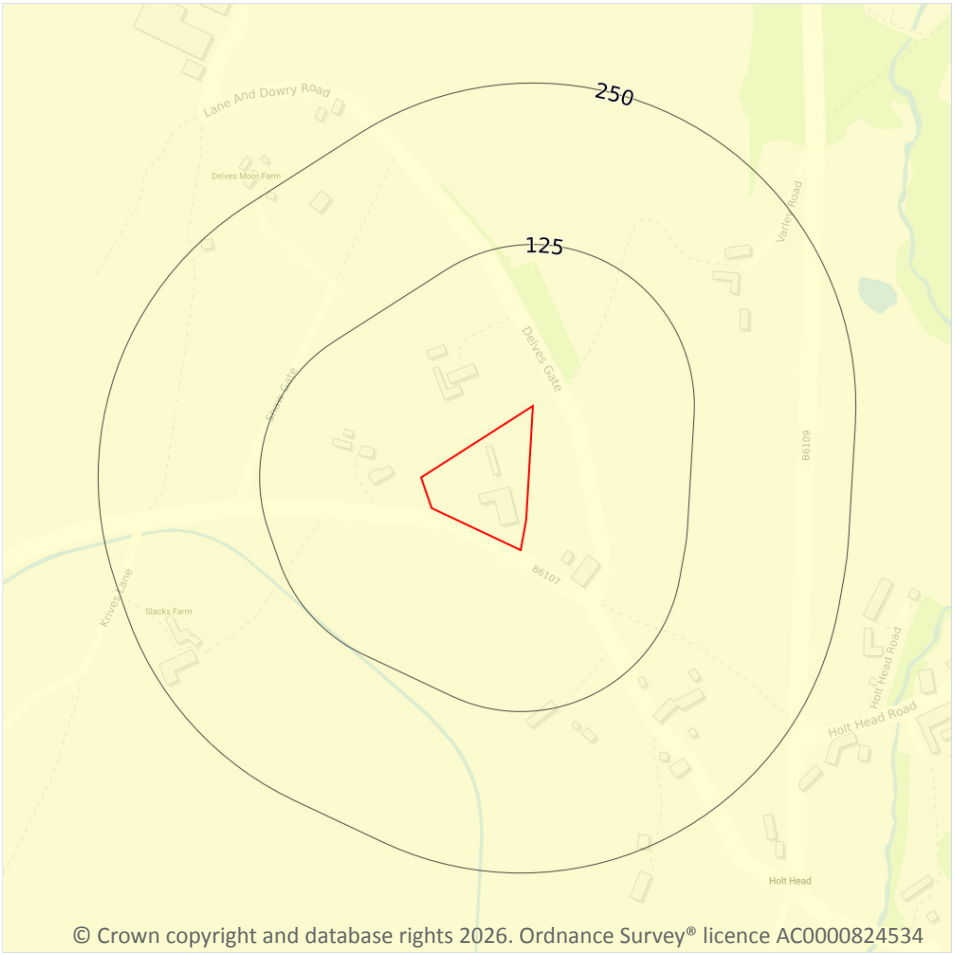
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 95 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	1

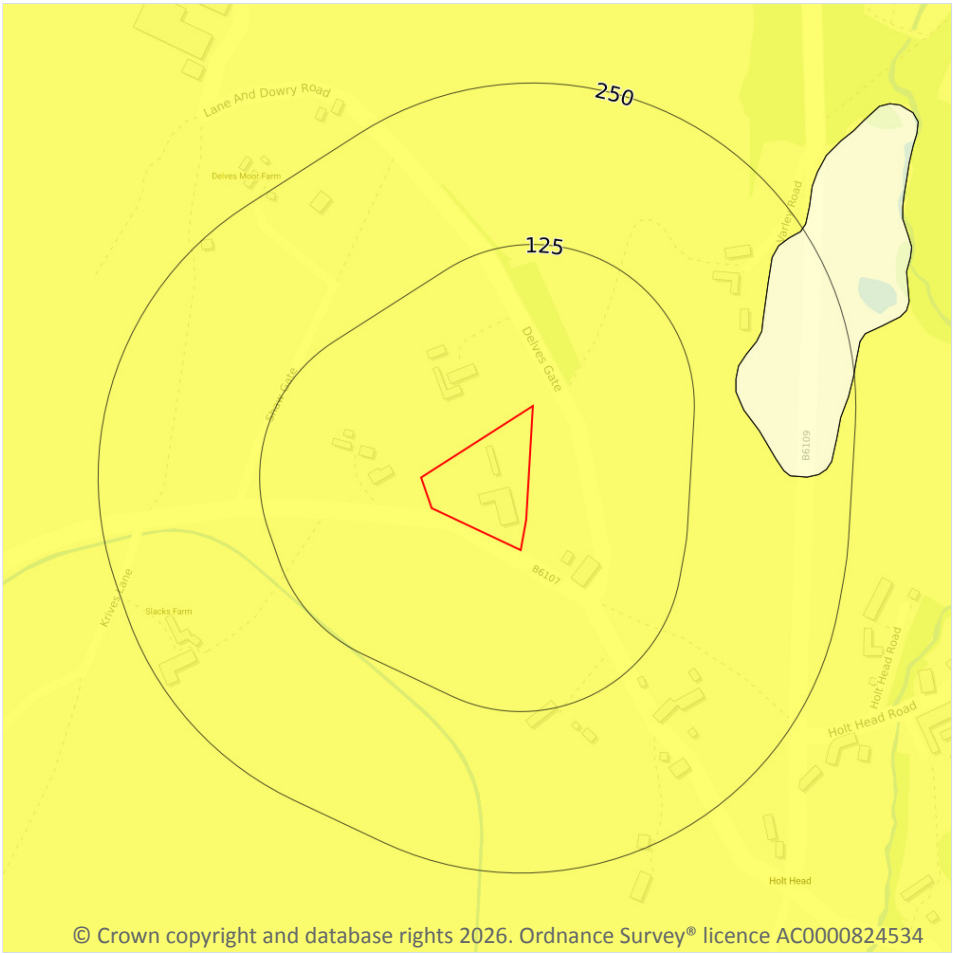
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 96 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	1

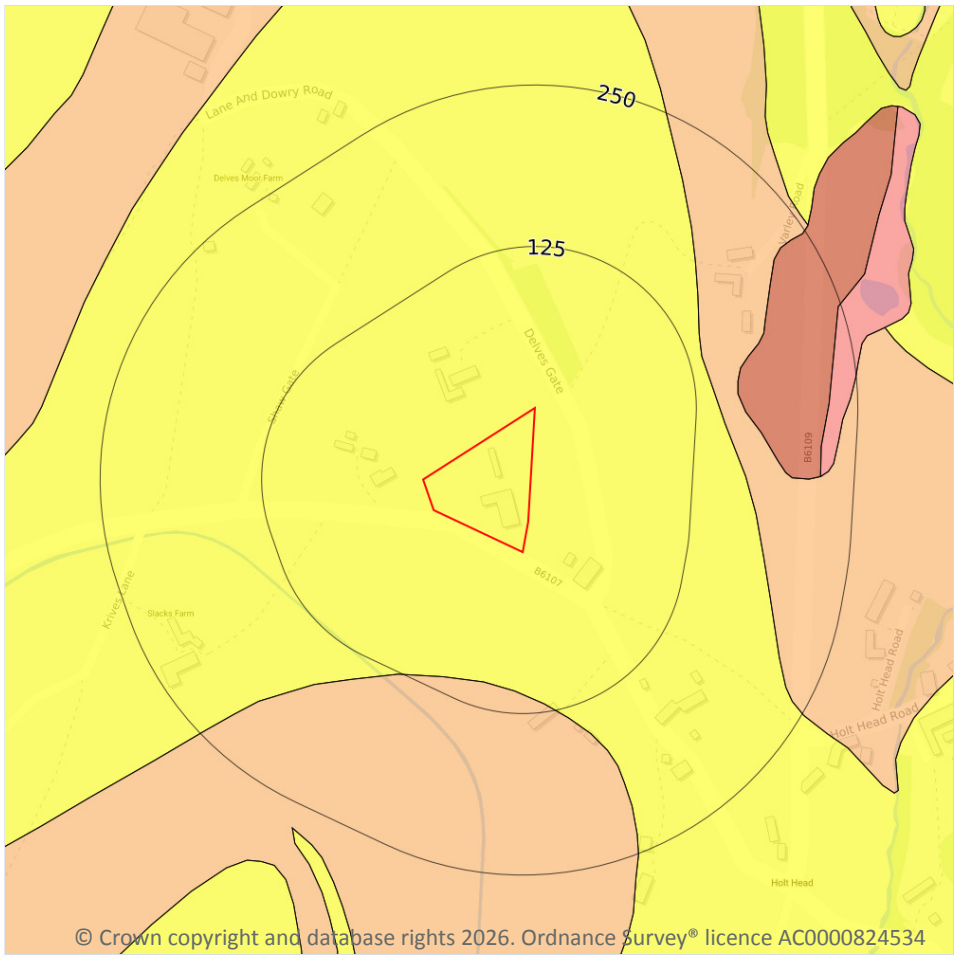
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 97 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m	1

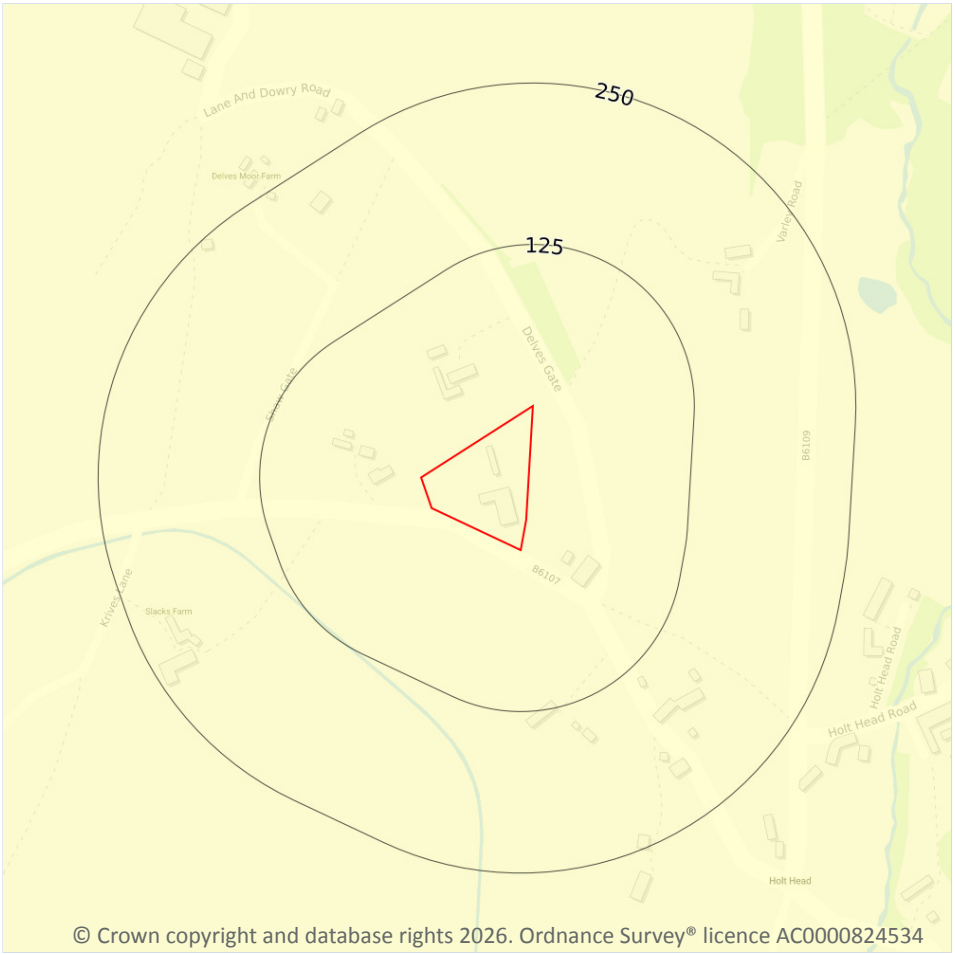
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 98 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



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Site Outline

Search buffers in metres (m)

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

17.6 Ground dissolution of soluble rocks

Records within 50m	1

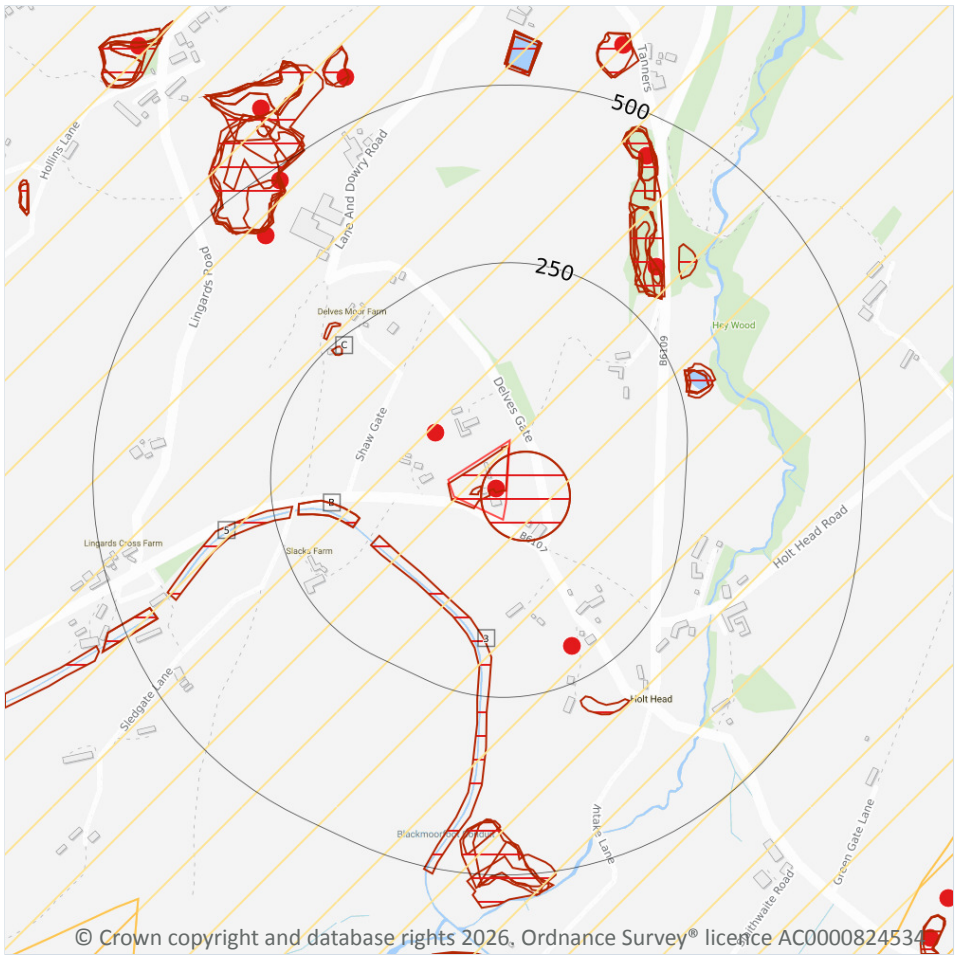
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 99 >**

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

This data is sourced from the British Geological Survey.

18 Mining and ground workings



Site Outline

Search buffers in metres (m)

- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining

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 BritPits

Records within 500m	7

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

Features are displayed on the Mining and ground workings map on **page 101 >**

ID	Location	Details	Description
A	**On site**	**Name: Slate Pitts Farm** **Address: Slate Pitts Farm, Delves Gate, Holt Head, Slaithwaite, HUDDERSFIELD, West Yorkshire** **Commodity: Sandstone** **Status: Ceased**	**Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping.** **Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.**
2	66m NW	Name: Holt Head Address: Delves Gate, Holt Head, Slaithwaite, HUDDERSFIELD, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
4	203m SE	Name: Bradleybrook Address: Holt Head, Slaithwaite, HUDDERSFIELD, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
E	320m NE	Name: Windy Bank Address: Holt Head, Staithwaite, HUDDERSFIELD, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

ID	Location	Details	Description
H	429m NW	Name: Shroggs Quarry Address: Lingards Road, Hill Top, Slaithwaite, HUDDERSFIELD, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
F	444m NE	Name: Windy Bank Address: Holt Head, Staithwaite, HUDDERSFIELD, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
H	483m NW	Name: Shroggs Quarry Address: Lingards Road, Hill Top, Slaithwaite, HUDDERSFIELD, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

This data is sourced from the British Geological Survey.

18.2 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 and ground workings map on **page 101 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Slate Pits**	**1930**	**1:10560**
A	**On site**	**Slate Pits**	**1955**	**1:10560**

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Slate Pits**	**1948**	**1:10560**
A	**On site**	**Slate Pits**	**1904**	**1:10560**
3	112m SW	Cuttings	1978	1:10000
B	136m W	Cuttings	1978	1:10000
B	136m W	Cuttings	1955	1:10560
5	223m W	Cuttings	1978	1:10000
C	232m NW	Unspecified Pit	1904	1:10560

This is data is sourced from Ordnance Survey®/Groundsure.

18.3 Underground workings

Records within 1000m	**0**

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

This is data is sourced from Ordnance Survey®/Groundsure.

18.4 Underground mining extents

Records within 500m	**0**

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from 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 and ground workings map on **page 101 >**

ID	Location	Name	Commodity	Class	Likelihood
1	**On site**	**Not available**	**Vein Mineral**	**A**	**Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.**
9	720m SW	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 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.

18.8 The Coal Authority non-coal mining

Records within 500m	0

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	1

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

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

This data is sourced from the Coal Authority.

18.13 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.

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 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 Ground cavities and sinkholes

19.1 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.

19.2 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.

19.3 Reported recent incidents

Records within 500m	0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

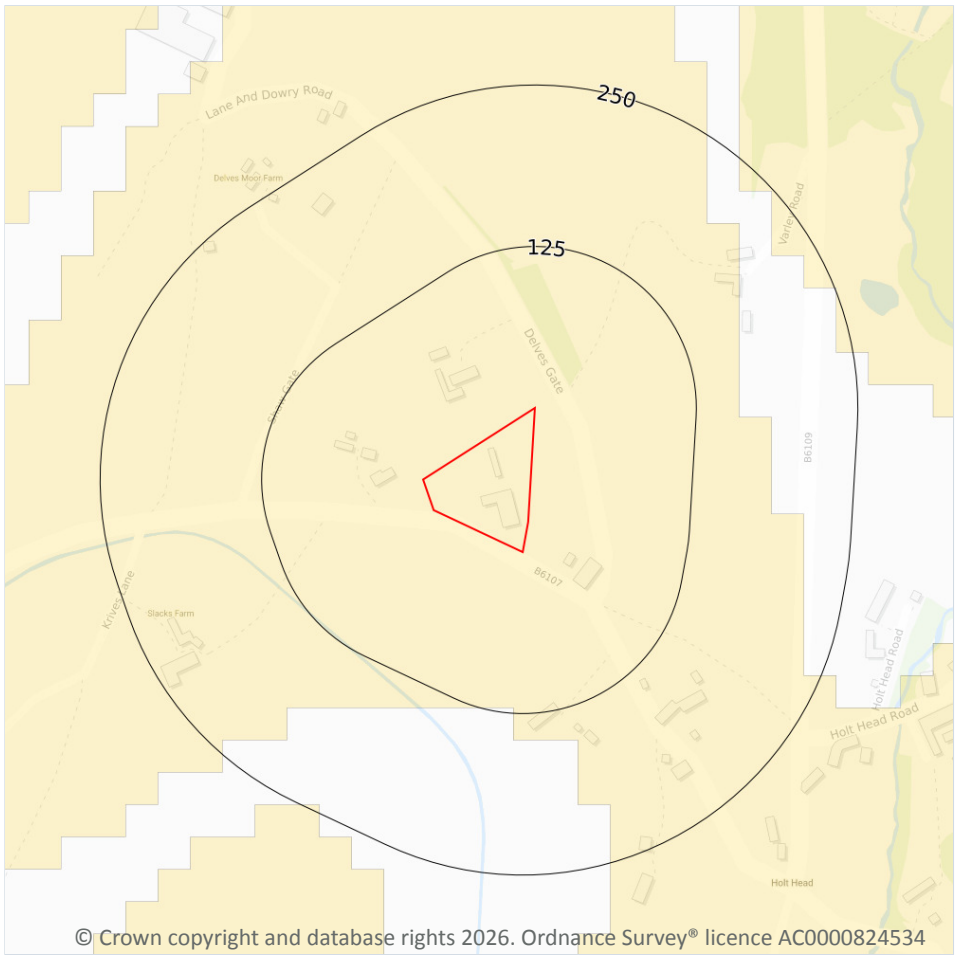
Records within 500m	0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey® maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey® mapping will necessarily be present within this dataset.

This data is sourced from Groundsure.

20 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%

20.1 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 110 >**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Between 1% and 3%**	**None**

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

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m	2

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 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 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 mg/kg**
21m S	15 - 25 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.

21.2 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.

21.3 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.

22 Railway infrastructure and projects

22.1 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.

22.2 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.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey® mapping.

This data is sourced from the Ordnance Survey®.

22.4 Historical railway and tunnel features

Records within 250m	0

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

This data is sourced from Ordnance Survey®/Groundsure.

22.5 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.

22.6 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.

22.7 Railways

Records within 250m	0

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

This data is sourced from Ordnance Survey® and OpenStreetMap.

22.8 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.

22.9 HS2

Records within 500m	0

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

This data is sourced from HS2 ltd.

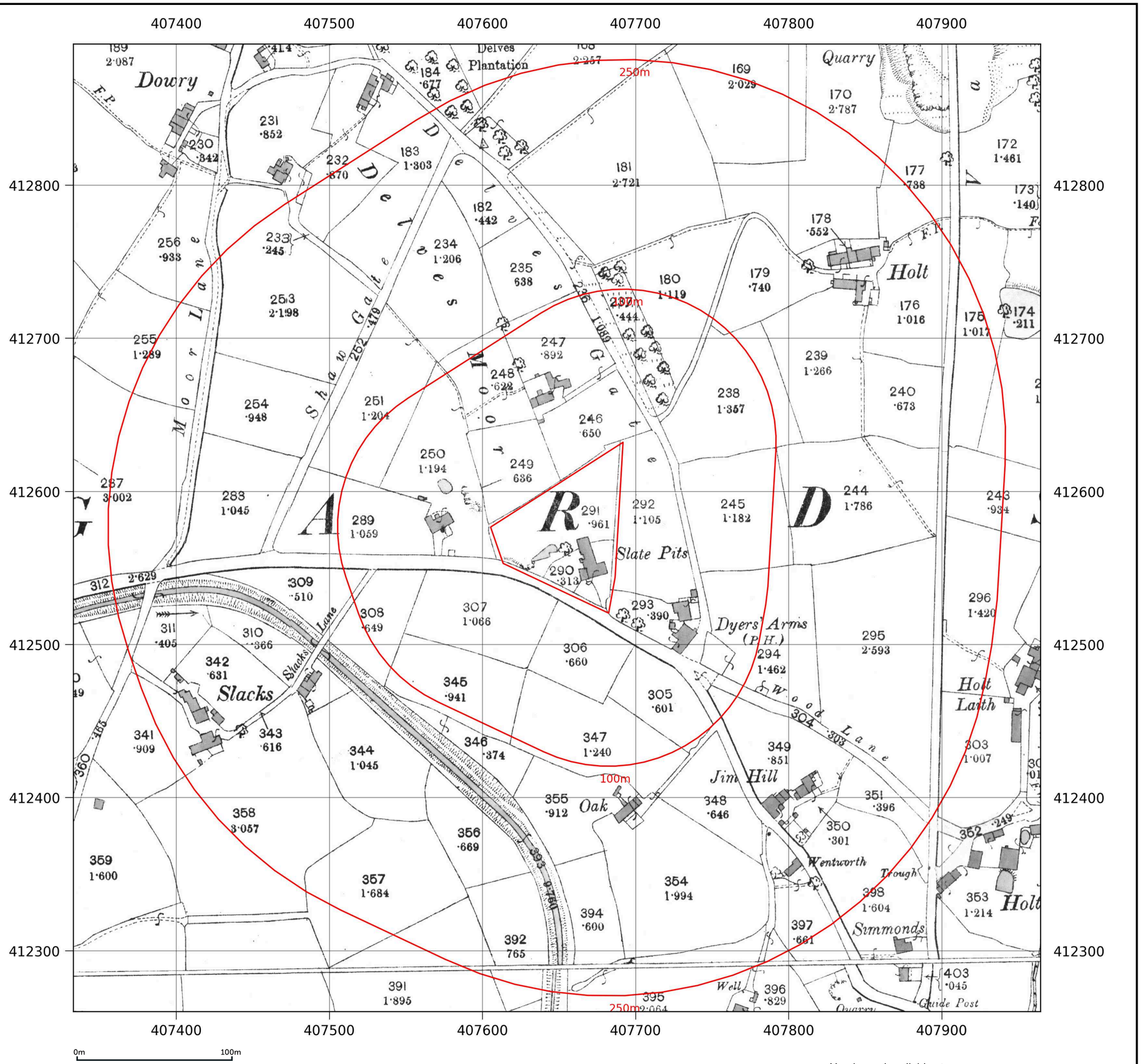
Data providers

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

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Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-conditions-april-2026/ ↗.

APPENDIX B – HISTORICAL OS MAPS



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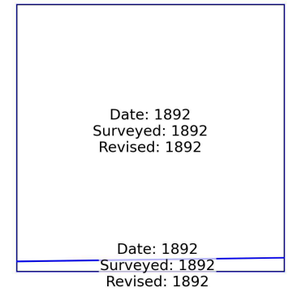
Map legend available at:
knowledge.groundsure.com/hubfs/groundsure_legend.pdf

Map Insight

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Client ref:	RBG514
Report ref:	GS-UOK-KY3-BPX-YP7
Grid ref:	407657.11, 412572.8
Production date:	6 April 2026

Map name:	County Series
Map date:	1892
Scale:	1:2,500
Printed at:	1:2,500

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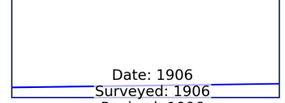
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Licensed Data

Map Insight

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Client ref:	RBG514
Report ref:	GS-UOK-KY3-BPX-YP7
Grid ref:	407657.11, 412572.8
Production date:	6 April 2026

Map name:	County Series
Map date:	1906
Scale:	1:2,500
Printed at:	1:2,500

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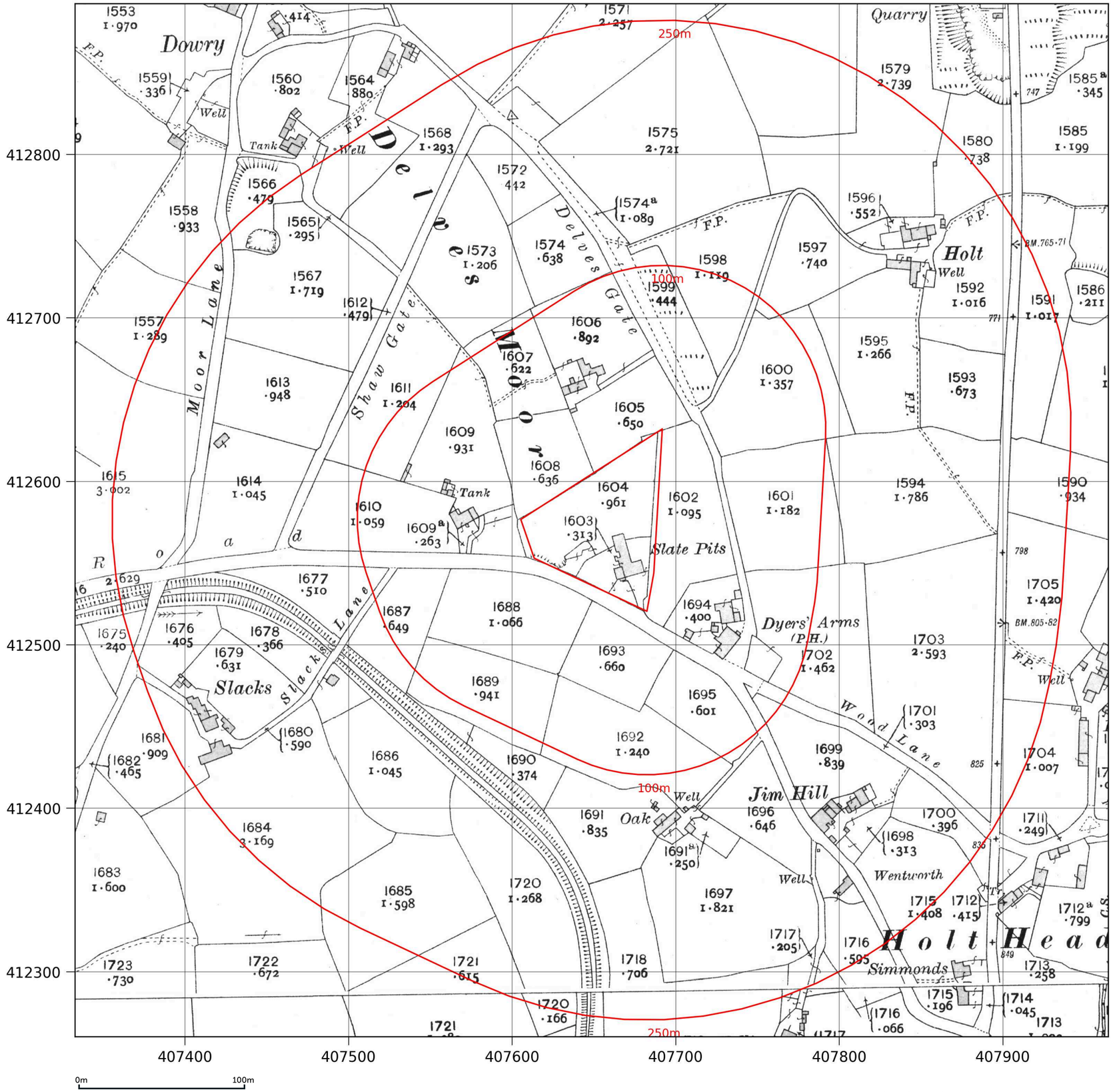
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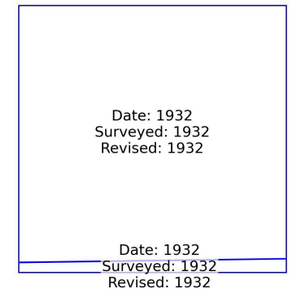
Map legend available at:
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Map Insight

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Client ref:	RBG514
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Grid ref:	407657.11, 412572.8
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Map name:	County Series
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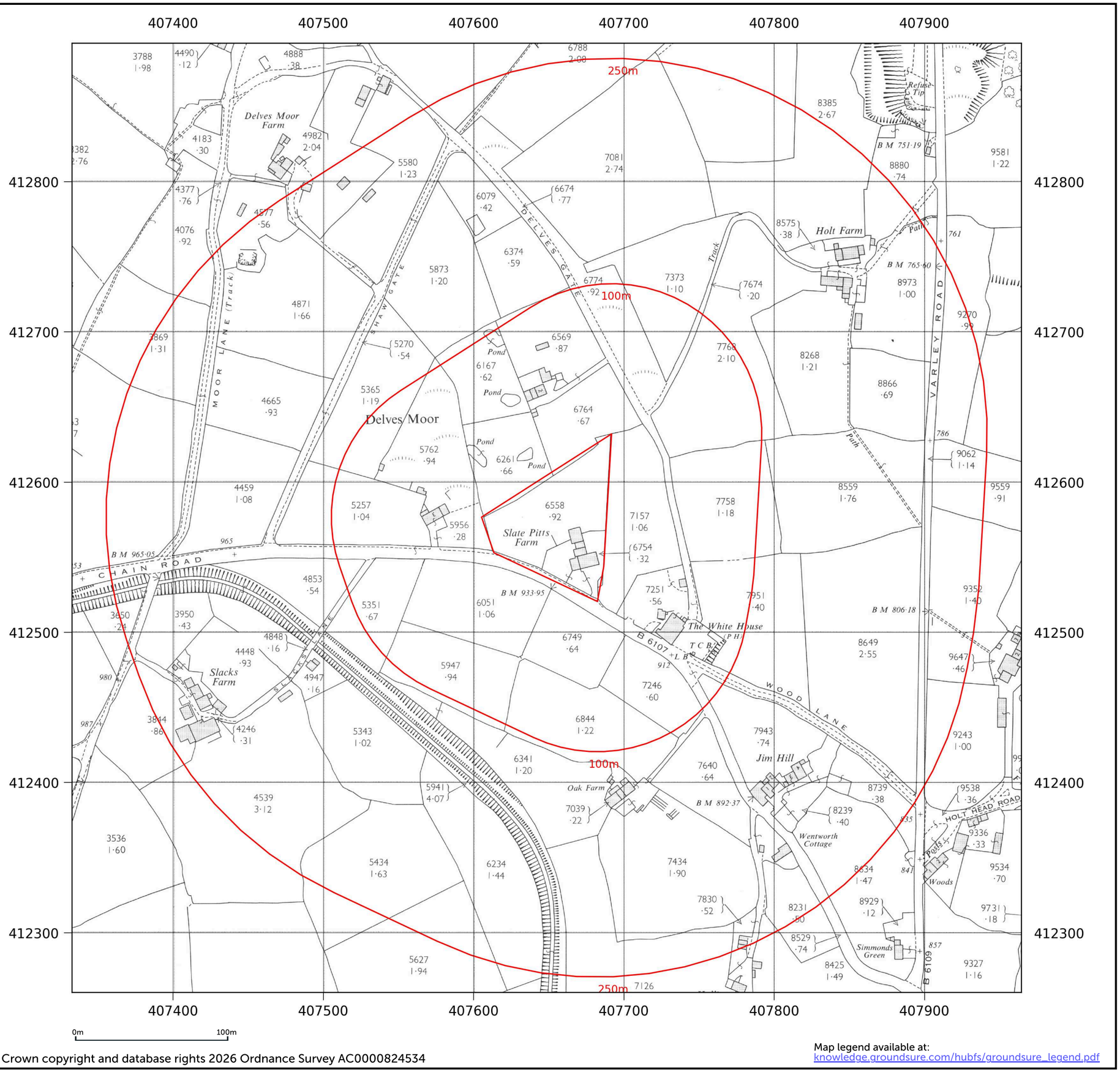
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Client ref:	RBG514
Report ref:	GS-UOK-KY3-BPX-YP7
Grid ref:	407657.11, 412572.8
Production date:	6 April 2026

Map name:	National Grid
Map date:	1968
Scale:	1:2,500
Printed at:	1:2,500

N
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Date: 1968
Surveyed: 1967
Revised: 1967
Copyright: 1968
Levelled: 1966

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Report ref:	GS-UOK-KY3-BPX-YP7
Grid ref:	407657.11, 412572.8
Production date:	6 April 2026

Map name:	National Grid
Map date:	1969
Scale:	1:2,500
Printed at:	1:2,500

N W E S

Date: 1969

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Client ref:	RBG514
Report ref:	GS-UOK-KY3-BPX-YP7
Grid ref:	407657.11, 412572.8
Production date:	6 April 2026

Map name:	LandLine
Map date:	2003
Scale:	1:1,250
Printed at:	1:1,250

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Date: 2003

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406500 407000 407500 408000 408500

413500 413000 412500 412000 411500

750m
500m
500m
750m

0m 500m

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Report ref:	GS-UOK-KY3-BPX-YP7
Grid ref:	407657.11, 412572.8
Production date:	6 April 2026

Map name:	County Series
Map date:	1854
Scale:	1:10,560
Printed at:	1:10,560

N W E S

Date: 1854
Surveyed: 1850
Edition: 1854
Levelled: 1853

Date: 1854
Surveyed: 1851
Edition: 1854

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406500 407000 407500 408000 408500

413500 413000 412500 412000 411500

750m
500m
500m
750m

0m 500m

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Map Insight

Site details:	SLATE PITTS, CHAIN ROAD, SLAITHWAITE, HUDDERSFIELD, KIRKLEES, HD7 5TY
Client ref:	RBG514
Report ref:	GS-UOK-KY3-BPX-YP7
Grid ref:	407657.11, 412572.8
Production date:	6 April 2026

Map name:	County Series
Map date:	1890-1891
Scale:	1:10,560
Printed at:	1:10,560

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406500 407000 407500 408000 408500

413500 413000 412500 412000 411500

750m 500m 500m 750m

0m 500m

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Site details:	SLATE PITTS, CHAIN ROAD, SLAITHWAITE, HUDDERSFIELD, KIRKLEES, HD7 5TY
Client ref:	RBG514
Report ref:	GS-UOK-KY3-BPX-YP7
Grid ref:	407657.11, 412572.8
Production date:	6 April 2026

Map name:	County Series
Map date:	1904-1905
Scale:	1:10,560
Printed at:	1:10,560

N W E S

Date: 1904
Surveyed: 1890
Revised: 1904

Date: 1905
Surveyed: 1891
Revised: 1905

Date: 1904
Surveyed: 1890
Revised: 1904

Date: 1904
Surveyed: 1891
Revised: 1904

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Site details:	SLATE PITTS, CHAIN ROAD, SLAITHWAITE, HUDDERSFIELD, KIRKLEES, HD7 5TY
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Report ref:	GS-UOK-KY3-BPX-YP7
Grid ref:	407657.11, 412572.8
Production date:	6 April 2026

Map name:	County Series
Map date:	1930
Scale:	1:10,560
Printed at:	1:10,560

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406500 407000 407500 408000 408500

413500 413000 412500 412000 411500

750m
500m

Badger Hey
Badger Bridge
Sewage Filter Beds
Lingards Moor
Tom Pitts
Kirves
Hollins
B.M. 856·65
Bole Bent
Field Head
Rushy Grove
Grom Gate Lane
Holt Head Sunday School
Quebec
Weir
White Reaps
Intake Lane
Lingards Wood Quarry
Ganister Quarries
Foreclose Edge
Bridgate Lane
Lingards Wood Moor
Burnt Hill
B.M. 1152·21
Range Ho.
500 Yards
400 Yds.
Overflow
Deer Hill Reservoir
(Huddersfield Corporation Water Works)
Filter Beds
Settling Tanks
White Reaps
LINGARDS MOOR
Deer Hill End
Rain Gauge
Deer Hill
Hill End Road
Blackmoorfoot Conduit
Bradley Brook
U.D.By.
Hill Range
B.M. 1158·41

0m 500m

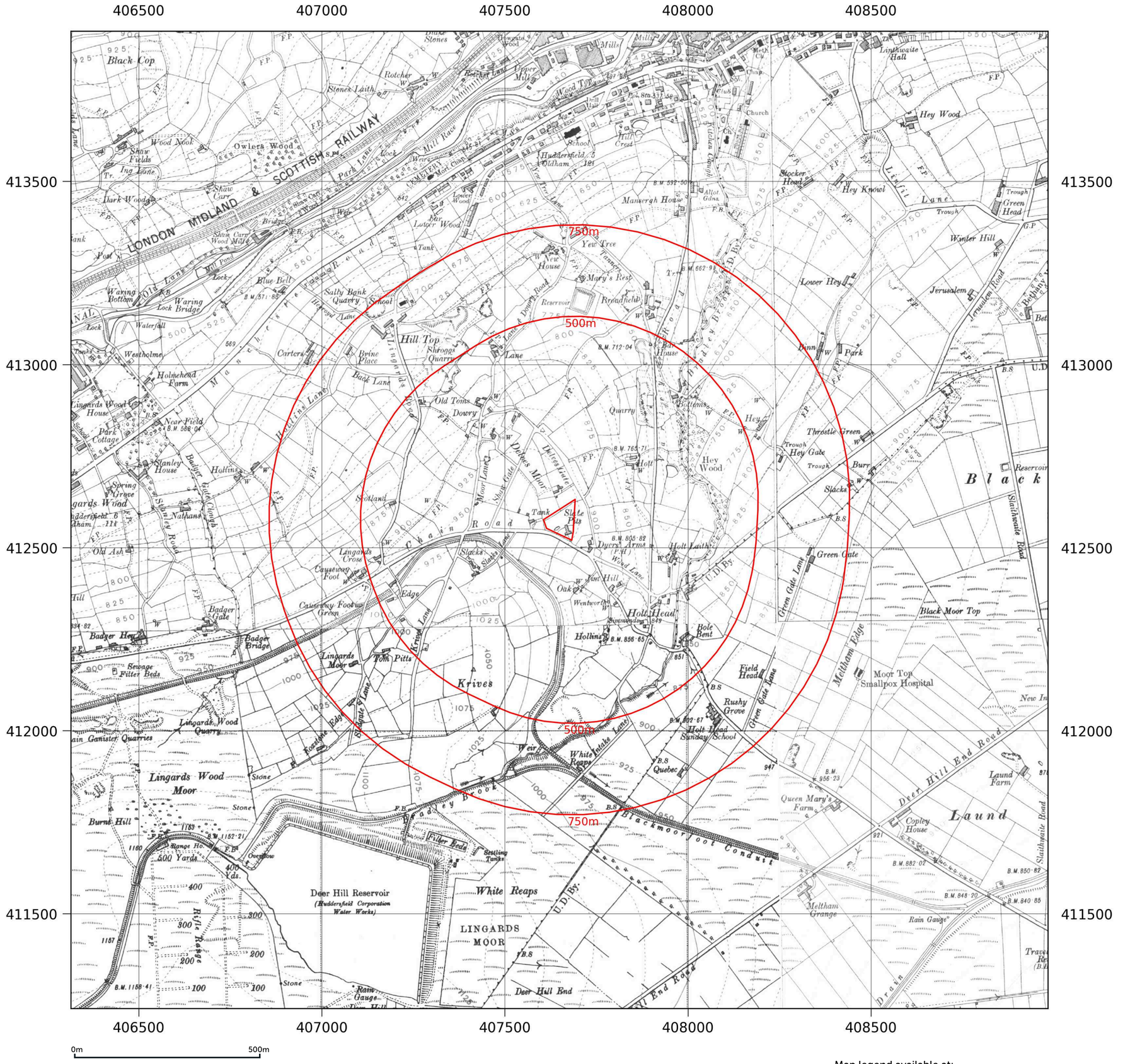
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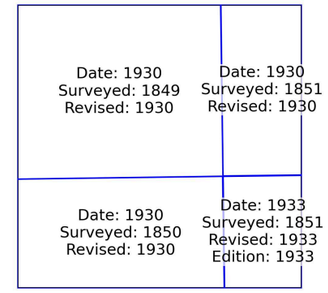
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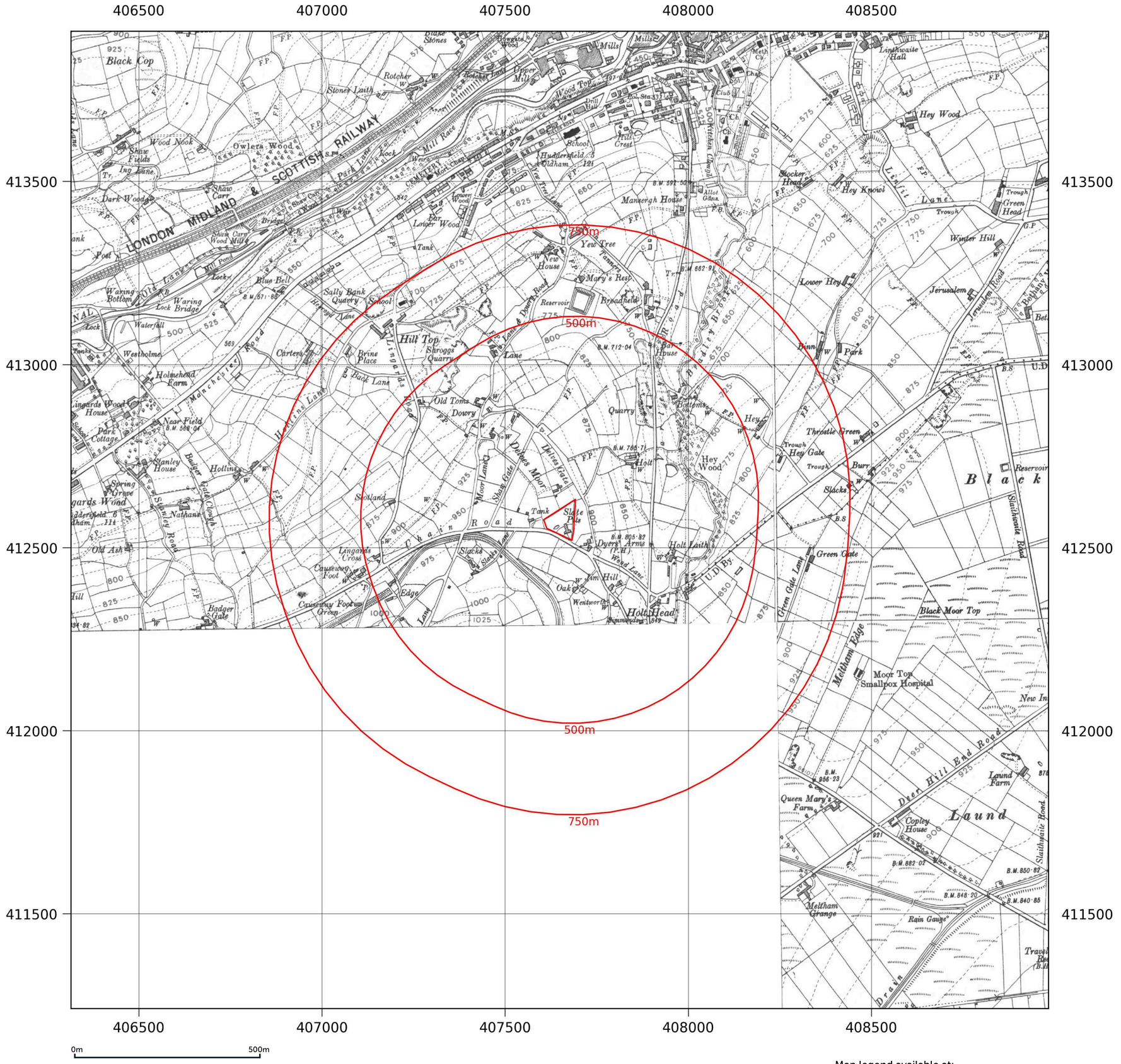
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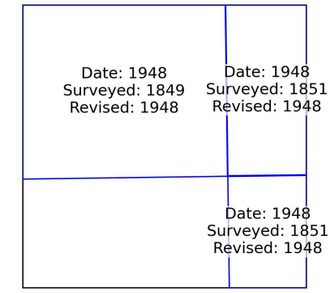
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knowledge.groundsure.com/hubfs/groundsure_legend.pdf

Map Insight

Site details:	SLATE PITTS, CHAIN ROAD, SLAITHWAITE, HUDDERSFIELD, KIRKLEES, HD7 5TY
Client ref:	RBG514
Report ref:	GS-UOK-KY3-BPX-YP7
Grid ref:	407657.11, 412572.8
Production date:	6 April 2026

Map name:	County Series
Map date:	1948
Scale:	1:10,560
Printed at:	1:10,560

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406500 407000 407500 408000 408500

413500 413000 412500 412000 411500

250m
500m
750m

0m 500m

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Map legend available at:
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Map Insight

Site details:	SLATE PITTS, CHAIN ROAD, SLAITHWAITE, HUDDERSFIELD, KIRKLEES, HD7 5TY
Client ref:	RBG514
Report ref:	GS-UOK-KY3-BPX-YP7
Grid ref:	407657.11, 412572.8
Production date:	6 April 2026

Map name:	Provisional
Map date:	1955
Scale:	1:10,560
Printed at:	1:10,560

N W E S

Date: 1955
Revised: 1955

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406500 407000 407500 408000 408500

413500 413000 412500 412000 411500

750m
500m
500m
750m

0m 500m

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Map legend available at:
knowledge.groundsure.com/hubfs/groundsure_legend.pdf

Map Insight

Site details:	SLATE PITTS, CHAIN ROAD, SLAITHWAITE, HUDDERSFIELD, KIRKLEES, HD7 5TY
Client ref:	RBG514
Report ref:	GS-UOK-KY3-BPX-YP7
Grid ref:	407657.11, 412572.8
Production date:	6 April 2026

Map name:	National Grid
Map date:	1978
Scale:	1:10,000
Printed at:	1:10,000

N W E S

Date: 1978
Surveyed: 1978
Revised: 1978

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Map Insight

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Client ref:	RBG514
Report ref:	GS-UOK-KY3-BPX-YP7
Grid ref:	407657.11, 412572.8
Production date:	6 April 2026

Map name:	National Grid
Map date:	2001
Scale:	1:10,000
Printed at:	1:10,000

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Date: 2001

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406500 407000 407500 408000 408500

413500 413000 412500 412000 411500

0m 500m

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Site details:	SLATE PITTS, CHAIN ROAD, SLAITHWAITE, HUDDERSFIELD, KIRKLEES, HD7 5TY
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Report ref:	GS-UOK-KY3-BPX-YP7
Grid ref:	407657.11, 412572.8
Production date:	6 April 2026

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

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Date: 2010

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413500 413000 412500 412000 411500

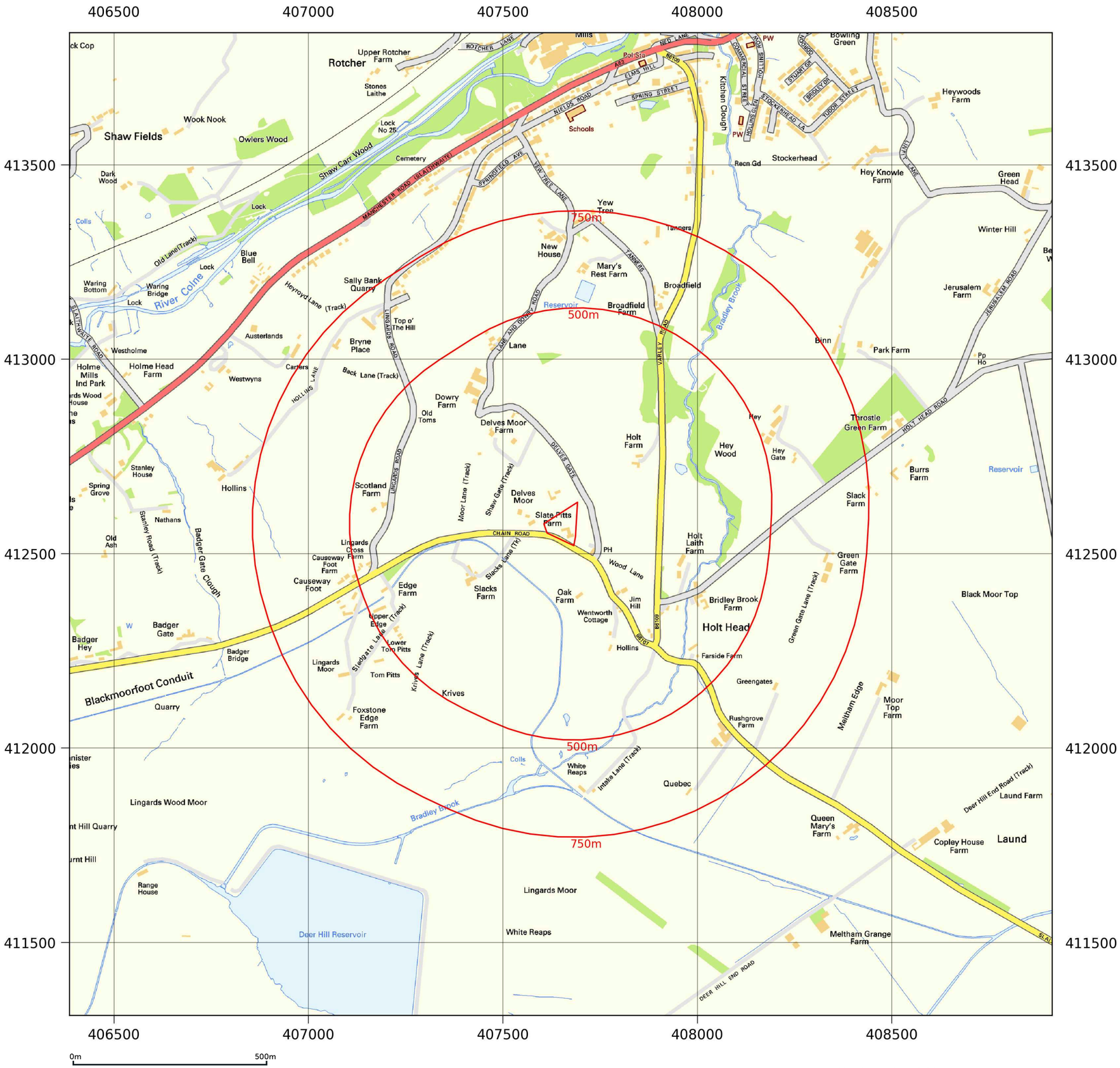
0m 500m

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Map Insight

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Client ref:	RBG514
Report ref:	GS-UOK-KY3-BPX-YP7
Grid ref:	407657.11, 412572.8
Production date:	6 April 2026

Map name:	National Grid
Map date:	2015
Scale:	1:10,000
Printed at:	1:10,000

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Date: 2015

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Map Insight

Site details:	SLATE PITTS, CHAIN ROAD, SLAITHWAITE, HUDDERSFIELD, KIRKLEES, HD7 5TY
Client ref:	RBG514
Report ref:	GS-UOK-KY3-BPX-YP7
Grid ref:	407657.11, 412572.8
Production date:	6 April 2026

Map name:	National Grid
Map date:	2025
Scale:	1:10,000
Printed at:	1:10,000

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Date: 2025

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

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