



GEO

Environmental Engineering



PHASE 1: DESK TOP STUDY REPORT

(PRELIMINARY ENVIRONMENTAL RISK ASSESSMENT)

PROPOSED RESIDENTIAL DEVELOPMENT OF LAND AT:

LAND ADJACENT TO BARFS ROAD

DISTINGTON

CUMBRIA

CA14 5TG

FOR

THOMAS ARMSTRONG (CONSTRUCTION) LIMITED

GEO Environmental Engineering

DOCUMENT CONTROL SHEET

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Client Title: Thomas Armstrong (Construction) Limited

Design Team: RG Parkins & Partners Limited, and Architects Plus (UK) Limited

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1.0 Introduction

1.1 Instruction

Geo Environmental Engineering Ltd (GEO) have been commissioned by the Consultant, R G Parkins on behalf of the Client, Thomas Armstrong Construction / Home Group to undertake a Phase 1: Desk Top Study Report (Preliminary Environmental Risk Assessment) for land at Barfs Road, Distington, Workington, CA14 5TG, to determine any potential geohazards that may affect the development of the site.

It is understood that the Client is considering developing the site for residential end use. Further details relating to the scope of development are included in Section 2.1.

This Phase 1: Desk Top Study Report is suitable for submission to the Local Authority as part of a planning application.

1.2 Objectives

The main objective of this Phase 1: Desk Top Study (DTS) Report is to assess the geological and environmental sensitivity of the development area and the surrounding environs to determine any potential geohazards that may impact the proposed development. Particular attention is made to any potentially contaminative industries or processes that may have taken place on site or immediately adjacent which may be considered as potentially posing a risk of ground/groundwater contamination and ground gas that could negatively affect the proposed end users, adjacent sites and controlled waters. This Phase 1: Desk Top Study Report has been completed in accordance with the following documents:

- Land Contamination Risk Management Stages 1 to 4 (LCRM – www.gov.uk) – June 2025
- UK Specification for Ground Investigation, 3rd Edition. Site Investigation Steering Group, 2022
- Effective Site Investigation. Site Investigation Steering Group, 2013
- CLR11: Model Procedures for the Management of Land Contamination. DEFRA/EA, 2004
- BS10175:2026: Investigation of Potentially Contaminated Sites - Code of Practice
- BS5930:2015 + A1:2020: Code of Practice for Site Investigations
- BS8485: 2015 + A1:2019: Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings
- BS8576: 2013: Guidance on Ground Gas Investigations
- CIRIA Report C665; Assessing risks posed by hazardous ground gases to buildings, 2007
- BR211: 2023 Radon, Guidance on protective measures for new buildings

1.3 Third Party Data Sources

During the completion of this DTS, information has been obtained and reviewed from the following sources:

- British Geological Survey (BGS) Geological Mapping Data.
- Environment Agency (EA).
- Enviro+Geo Insight Groundsure Report – (GSR – Appendix II).
- Ordnance Survey Historical Maps (Appendix III).
- The Mining Remediation Authority (formerly The Coal Authority) Consultants Coal Mining Report (Appendix IV) and Online Database.

A site walkover was completed in December 2025. A summary of the site walkover is included in Section 2.0 and photographs of the site are presented in Appendix I.

1.4 Limitations of Use

The information, assessments, conclusions and recommendations presented within this Phase 1: Desk Top Study (DTS) Report are solely based on, and are limited to, the boundaries of the site, the immediate area and the historical use(s) as described.

This DTS has been completed using information relating to the physical and environmental setting of the development area, highlighting, where possible, any potential geohazards that might be encountered with respect to the proposed Residential end use.

Therefore, if a change in the proposed end use is envisaged, then a reassessment of the development area should be carried out.

Consequently, any comments, opinions, diagrams, cross sections and/or sketches contained within the DTS, and/or any configuration of the findings is purely conjectural and given for guidance only as no intrusive investigation works have been completed by Geo Environmental Engineering Ltd and it is recommended that confirmation of the anticipated ground conditions should be considered before development proceeds.

The conclusions and recommendations presented within this report are considered reasonable based on the available information. However, these cannot be guaranteed to gain regulatory approval. Therefore, the report should be passed to the appropriate regulatory authorities and/ or other key stakeholders, including warranty providers in order to seek their approval of the findings prior to undertaking any works on site and prior to development.

Reliance on the report is for the named Client only. Agreement for the use or copying of this report by any Third Party must be obtained in writing from Geo Environmental Engineering Ltd. Reliance on the report is strictly in accordance with the Geo Environmental Engineering Ltd Standard Terms and Conditions, copies of which are available on request.

2.0 Site Location and Development Proposals

2.1 Site Location

The site, occupying an area of c.2.57ha is located southeast off Barfs Road, within the large village of Distington, c.1.4km southwest of Lillyhall Industrial Estate on the outskirts of Workington, as indicated on the site location plan included in Appendix I. Access to the site is from Barfs Road to the north and west.

- National Grid Reference: 422563, 601960
- Post Code: CA14 5TG (approximate only)

2.2 Development Proposal

Based on the proposed development plans provided to GEO, it is understood that the client is proposing to redevelop the site with 61 no. new semi-detached residential dwellings with areas of carparking and private gardens. The remaining areas of the site will comprise soft landscaping to meet BNG requirements. A copy of the proposed development plan can be seen in Appendix I. Further details relating to the proposed development can be obtained from the Design Team / Consultant.

Further details relating to the proposed development should be obtained from the Consultant.

2.3 Site Description and Levels

A site walkover was completed in December 2025 and a selection of photographs of the site are included in Appendix I.

The site is situated within an established residential housing estate. It is encircled by a tarmacked road, which forms a loop around the main area of the site, with a network of interconnected roads and pedestrian paths, providing access throughout the estate. Landscaping within the site comprises areas of grass and mature trees, which includes a section of block paving, with seating. Physical boundaries are minimal across most of the site, with some walls noted centrally.

There was no evidence of any contamination sources (bulk fuel/oil or chemical storage) noted on the site during the walkover.

The site is visually mostly flat, with areas across the site undulating very gently. A topographical survey has not been provided; however, Ordnance Survey data suggests that the site is at an elevation of between c.71m and c.79m AOD. It would therefore be prudent to acquire a topographical survey of the site prior to assist in development design.

2.4 Surrounding Land Uses

Existing residential properties and private gardens are present surrounding the site.

There was no evidence of any contamination sources (heavy industry, fuel stations, etc.) noted in the area surrounding the site during the walkover.

2.5 Existing Infrastructure and Utilities

A review of statutory utility supplier records lies outside the scope of this report, however, GEO has been tasked with supplying utility plans as a separate document. It is recommended that all utility plans are reviewed prior to commencing any development works.

3.0 Geo-Environmental Setting

This section is based principally upon a search of information available on public registers and obtained through the Groundsure Report (GSR) to determine any environmental or geological constraints to the proposed development.

- Sections 3.1 to 3.4 refer to the Enviro+Geo Insight Groundsure Report contained in Appendix II.
- Section 3.5 refers to the Historical Map Extracts contained in Appendix III.

3.1 Development Area Geology

A geological review of the site has been undertaken using information provided on published geological maps (BGS Sheet 28 Whitehaven, Solid and Drift Edition, 1:50,000 scale, dated 2004) and the Groundsure Report (GSR) contained in Appendix II.

Extracts of the geological maps are included below as Figures 1 and 2, with the red line boundary of the site shown.

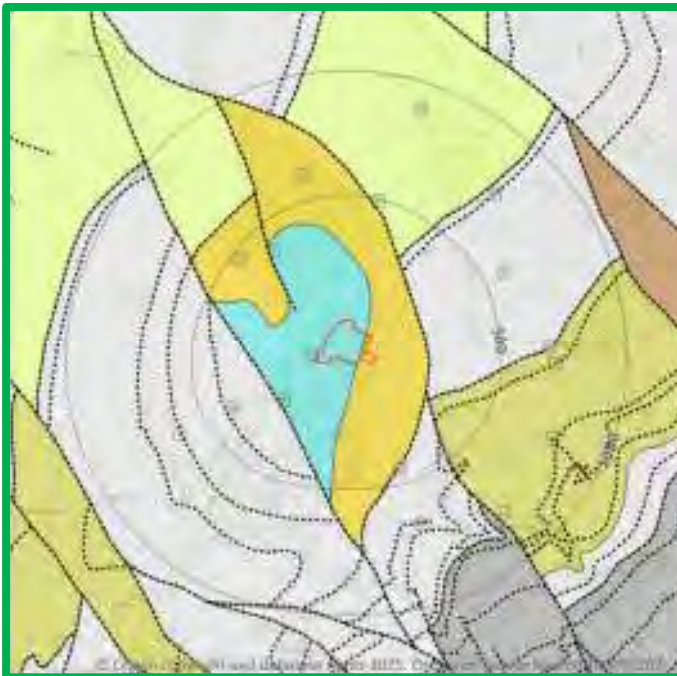


Figure 1. Solid (bedrock) geology



Figure 2. Superficial (drift) geology

3.1.1 Made Ground

A review of the published geological map and the GSR indicates made ground across the site. Although the site is currently undeveloped, the site was historically a housing estate, therefore made ground is anticipated across the site. This is likely to comprise reworked natural drift deposits and anthropogenic materials, with the potential for colliery waste (i.e. brick, concrete, ash, coal, clinker, etc.). Made ground is likely to be a source of potential contamination. Relict structures may also be present.

In accordance with the GSR an area of artificially modified ground is recorded c.61m northwest of the site, with historical mapping noting the area as a railway line, with a former quarry (Barfs Quarry) beyond, therefore made ground deposits at this site are likely to comprise reworked natural drift deposits and anthropogenic materials and colliery waste (i.e. brick, concrete, ash, coal, clinker, etc), with the potential for localised made ground to be at depth.

3.1.2 Drift Geological Deposits

A review of the published geological map and the GSR indicates that the site is underlain by glacial till deposits. These deposits typically comprise firm and stiff sandy gravelly clays with bands/layers of sand and gravel. Cobbles and boulders will likely be abundant. If clay deposits are encountered across the site, the ground is unlikely to be suitable for a soak-away drainage system.

The GSR indicates the following geohazards and associated preliminary level of risk:

■ Shrink-swell clays	very low risk.
■ Running sands	very low risk.
■ Compressible deposits	negligible risk.
■ Collapsible deposits	very low risk.
■ Landslides	very low risk.

The drift deposits are classified as a Secondary Undifferentiated Aquifer.

Phase 2: Ground Investigation works are recommended to aid the design of foundations and any retaining structures or roads, should they be deemed necessary by the Design Team.

3.1.3 Bedrock Deposits

Reference to the published geological map and the GSR indicates most of the site is underlain by the First Limestone (Cumbria Limestone), with a small area on the southeastern tip of the site underlain by the Hensingham Grit Sandstone. Coal seams are known to have been worked in the wider vicinity of the site within the Pennine Lower Coal Measures.

Both the First Limestone and Hensingham Grit Sandstone are classified as a Secondary 'A' Aquifer.

The GSR indicates a low risk associated with the dissolution of soluble rocks.

3.1.4 Historical Investigation Records

No suitable historical borehole records are indicated within a suitable or representative distance of the site (i.e. within c.100m).

3.1.5 Geological Features

An inspection of the geological map indicates that there are no geological faults inferred on or immediately adjacent to the site.

3.1.6 Coal Mining Assessment

Reference to the published geological map and the GSR indicates most of the site is underlain by the First Limestone (Cumbria Limestone), with a small area on the southeastern tip of the site underlain by the Hensingham Grit Sandstone. Coal seams are known to have been worked in the wider vicinity of the site within the Pennine Lower Coal Measures but are not thought to be beneath the site at shallow depth.

A Mining Remediation Authority (formerly The Coal Authority – CA) Consultants Coal Mining report has been acquired for the site (ref: 51003539953001, dated: 24th November 2025). Although the site is within a coal mining reporting area, there is no past underground mining recorded below the site.

The report indicates that there are no recorded workings beneath the site. Other salient points from the CA Consultants Mining Report are included below:

- Probable unrecorded shallow workings – None.
- Mine Entries – None recorded within c.100m.
- Outcrops – None recorded.
- Mine Gas – None recorded within c.500m
- Coal Mining Subsidence – None within c.50m.
- Opencast Mines – None recorded within 500m.

A copy of the CA Consultants Coal Mining Report is included in Appendix IV.

Based on the information presented above, the risk to the site and the proposed development from shallow unrecorded coal mine workings is negligible.

3.1.7 Non-Coal Mining and Quarrying Assessment

The GSR indicates that the site is located in an area where mineral veins have been mined at surface, with the closest limestone quarry (Barfs Quarry), located, c.104m northwest of the site.

In view of the information above, the risk to the proposed development from mineral vein mining is low and although further assessment is not considered necessary at this stage, a watching brief is considered prudent during further site development.

Information presented within the GSR suggests that there is no risk to the development from brine extraction, tin mining, clay mining and gypsum extraction.

The GSR further notes the probable presence of significant soluble rocks within the underlying geology. While the overall possibility of localised subsidence or dissolution-related degradation of the bedrock is considered low, there remains a potential for such occurrences under adverse conditions, particularly when there is high surface or subsurface water flow.

In addition, a sink hole or swallow hole has been recorded, c.140m southeast of the site, within the limestone bedrock. The presence of this feature demonstrates the geological susceptibility of the area to dissolution-related ground movements. This feature is noted close to a beck.

3.1.8 Radon Gas Assessment

In accordance with the GSR, the majority of the development site is located within a Radon Affected Area as defined by the British Geological Survey and UK Health Security Agency, as between 10% and 30% of properties are above the action level. Consequently, in accordance with the British Geological Survey and UK Health Security Agency, full radon protection measures are necessary.

The site will require consultation with the Local Authority (LA) with respect to the appropriate protection measures and their installation. The LA will likely require a Ground Gas Verification Plan to provide details of the protection measures that are required and how they will be installed along with verification parameters.

Radon risks are re-assessed periodically by the British Geological Survey and UK Health Security Agency, therefore, a re-assessment is recommended if the development does not commence within 12 months of issue of this report.

3.2 Development Area Hydrogeology (Groundwater)

3.2.1 Made Ground/Soils

Any made ground/topsoil materials on site are likely to be classified as high permeability (i.e. worst-case scenario assumed until proven otherwise).

3.2.2 Drift Geology

The drift deposits beneath the site are classified as a Secondary Undifferentiated Aquifer. This is assigned where it is not possible to attribute either category A or B.

3.2.3 Solid Geology

The underlying bedrock (First Limestone and Hensingham Grit Sandstone) is designated a Secondary 'A' Aquifer status. These are 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.

3.3 Development Area Hydrology

3.3.1 Groundwater

Given the topography and anticipated ground conditions, shallow groundwater may be present.

A review of the Hydrology information in the GSR indicates the following:

- No groundwater abstractions are recorded within c.1km of the site.
- No surface water abstractions are recorded within c.1km of the site.
- No potable water abstraction licences are held within c.2km of the site.
- The site is not recorded as being within or within c.500m of a Source Protection Zone.

3.3.2 Surface Water Features

Distington Beck is recorded within c.111m east of the site boundary, which is partially culverted.

3.3.3 Current Surface Water Run-off

Given the anticipated ground conditions, it is likely that any surface water will pond on site or infiltrate directly into the ground with some overland flow likely during heavy rainfall events.

3.4 Development Area Environmental Sensitivity

3.4.1 Site Ecology

There are no Environmental Designations (Sites of Special Scientific Interest, Special Area of Conservation, etc...) within 250m of the site.

For further details, please refer to Section 10 of the GSR in Appendix II.

3.4.2 Authorisations, Incidents and Registers

- No Control of Major Accident Hazards (COMAH) sites are within c.250m.
- No Regulated explosive sites are within c.250m.
- No Hazardous Substance Storage or Usage is within c.250m.
- No records of historical IPC Authorisations are held within c.250m.
- No Licensed industrial activities - Part A(1) are within c.250m.
- No Licensed pollutant release - Part A(2)/B are within c.250m.
- No Radioactive Substance Authorisations are within c.250m.
- Three Licensed Discharges to controlled waters are recorded, c.160m east, which relate to the same address and correspond to the discharge of sewage and storm overflow into Distington Beck.
- No Pollutant release to surface waters (Red List) or public sewer are within c.250m.
- No List 1 or List 2 Dangerous Substances are within c.250.
- Several Pollution Incidents (EA/NRW) are recorded within c.250m of the site. The closest incident is recorded, c.9m to the southeast of the site, with the majority of the pollutant impacts graded as a category 2 (significant) on air quality, corresponding to a chemical odour, with no pollutant impacts on land and water. One incident corresponds with the polluting of oil and fuel into a water course, c.227m to the east of the site and graded as a minor incident.
- No Pollution inventory substances are within c.250m.
- No Pollution inventory waste transfers are within c.250.
- No Pollution inventory radioactive waste are within c.250m.

For further details, please refer to Section 4 of the GSR in Appendix II.

3.4.3 Determination of Contaminated Land (Part IIA)

A review of the GSR indicates that the site is not currently recorded as being considered as Contaminated Land under Part IIA EPA 1990. In addition, no sites are determined as Contaminated Land under Part IIA EPA 1990 within c.500m of the proposed development area.

3.4.4 Historical Industrial Land Uses

A review of Section 1.0 in the GSR indicates the following historical land uses:

- Potentially Contaminative Uses (PCU) – The GSR indicates:
 - o A former smithy, c.9m southeast of the site, dated 1898.
 - o Several cuttings and sidings associated with the former railway c.37m to c.233m, arcing around the site from southwest to the north of the site, dated from between 1898 and 1991.
 - o Unspecified disused workings and disused quarries are recorded from c.59m northwest of the site, dated between 1898 and 1991.
 - o Unspecified heap, 91m to the southwest of the site, dated 1947.
 - o Former lime kilns, c.100m to the southwest of the site, dated 1864.
 - o Former mills from, c.152m to the east of the site, dated from 1864 to 1923.
 - o Sewage works, 234m to the southeast of the site, dated between 1947 and 1951.
- Historical Tanks – None recorded on site or within c.250m.
- Potentially Infilled Land –
 - o Several cuttings and sidings associated with the former railway c.37m to c.233m, arcing around the site from southwest to the north of the site, dated from between 1898 and 1991.

- o Unspecified disused workings and disused quarries are recorded from c.59m northwest of the site, dated between 1898 and 1991.
- o Unspecified heap, 91m to the southwest of the site, dated 1947.
- o Former lime kilns, c.100m to the southwest of the site, dated 1864.
- o A graveyard, c.145m to the southwest of the site, dated 1864.
- o Former mills from, c.152m to the east of the site, dated from 1864 to 1923.
- Historical Energy Features – Two electrical substations are noted within c.250m, one, c.40m northwest and one, c.72m southeast of the site.
- Historical Petrol and Fuel Site Database – None noted within c.250m.
- Historical Garage and Motor Vehicle Repair Database – One noted adjacent to the southwest of the site from between 1961 and 1988 and one c.176m to the northeast of the site, dated from 1998.

3.4.5 Current Industrial Land Uses

According to the GSR, a vehicle garage is located c.176m northeast of the site and is identified as an existing industrial land use of concern.

3.4.6 Fuel Station Entries

No fuel filling stations are currently active within c.500m of the site.

3.4.7 Landfill and Waste Regulation/Management – Landfill Sites

- No active or recent Landfill Sites are recorded within c.250m.
- No (BGS/LA) historical Landfill Sites are recorded within c.250m.
- One Environment Agency Historic Landfill Site is recorded, c.139m to the west of the site corresponding with the disposal of inert household, commercial and industrial waste.
- No historical waste sites are recorded within c.250m.
- The licensed waste sites are recorded within c.250m.
- One waste exemption is recorded, c.163m to the south of the site, corresponding with the disposal of construction waste.

Further details are provided in Section 3.0 of the GSR in Appendix II.

3.5 Development Area Historical Plan Appraisal

This section is based on historical Ordnance Survey map data and provides a summary of the site history, highlighting any industries, processes or activities that may be considered as Geohazards. Copies of historical maps which date back to 1864 are provided in Appendix III and a summary of the site history is included below.

3.5.1 On-Site

The first historical map extract dated 1864 depicts that the site is part of agricultural fields, which surround the site. The site remains undeveloped until the mid-1940's, when a residential housing estate is recorded across the entire site, with interconnecting roads. By the early-2000's, the houses are demolished, with the site remaining undeveloped (as managed public open-space) until present day (as of 2025).

3.5.2 Off-Site

The earliest available historical mapping, dating from 1864, depicts the area surrounding the site as comprising extensive agricultural fields. Notably, both active and disused limekiln quarries are identified to the northwest and west, indicating historical mineral extraction activities in close proximity. Additionally, a corn mill is recorded to the northeast, highlighting the presence of local agricultural processing. Several wells are also noted in the vicinity, specifically to the north, east, and south of the site, suggesting the historical use of groundwater resources.

By 1898, the Whitehaven, Cleator and Egremont railway line had been constructed, curving around the north, west, and southwest proximities of the site. This period also saw the presence of a smithy near the eastern boundary, which remained until its closure in 1923. The limekiln quarries, now disused, appear to have expanded, with associated earthworks encroaching towards the western edge of the site. These former quarry areas are mapped as ponds, which may have been seasonal in nature.

From 1947, the character of the surrounding area underwent significant change, with the development of substantial residential housing. A sewage works is documented to the southeast of the site during this period. The railway line, by this time, had become a disused main line and was subsequently recorded as a wagon way until 1967, after which it was dismantled and the route incorporated into the present-day A595 roadway.

By 1961, a garage had been established immediately to the south of the site, with satellite imagery suggesting its demolition by 2016. In 1994, records indicate the presence of another garage to the northeast. The disused limekiln quarry, located to the west, was identified as a tip by 1967, with records indicating it was infilled by 2010. The area now accommodates a golf course and driving range, reflecting the transition from industrial and waste-related uses to recreational land use over time.

4.0 Conceptual Site Model

A Conceptual Site Model (CSM) has been designed using the information presented within this DTS to provide a model of the anticipated ground, groundwater and ground gas conditions below the development area (Existing Site CSM).

The CSM utilises the established **Source – Pathway – Receptor** pollutant linkage model and is designed to provide an improved understanding of the site characteristics. This ensures adequate and appropriate Phase 2: Ground Investigation (P2 GI) Works are designed and undertaken for wide spread and targeted investigations, should they be deemed necessary.

Depending on the results of the ground investigation, the CSM can be refined based upon the outcomes of the intrusive works to ensure that appropriate remediation (if required) is completed to ensure the development area is “fit for purpose” in relation to the proposed residential end use.

The preliminary CSM is presented in the matrix on the following page and considers the anticipated **Source – Pathway – Receptor** pollutant linkage model derived for this site.

<u>SOURCE-PATHWAY-RECEPTOR POLLUTANT LINKAGE MODEL</u>
Sources:
S1 = Made Ground – Potential Sources Identified. Based on the historical use of the site, made ground is expected across the site with localised deeper areas anticipated (due to former buildings), with these materials expected to include anthropogenic debris (i.e. ash, clinker etc.). Given the proposed residential end use of the site, an appropriate Human Health Risk Assessment is required (i.e. sampling of shallow ground conditions and laboratory analysis). In addition, a watching brief during the development works is recommended to ensure that if deeper made ground and or visual/olfactory evidence of localised contamination is identified then works should be stopped, the LA should be notified, and advice should be sought from an appropriately qualified and experienced Geo-Environmental Engineer.
S2 = Ground Gas – Potential Sources Identified. Historical residential housing was recorded across the site until the early 2000's, when the houses were demolished. Additionally, the site is located within close proximity of former opencast limekilns, a subsequent landfill site and various ponds which, were infilled during the 2010's. Given that significant infilling has occurred both onsite and within close proximity to the site (adjacent quarries), there is the potential for migration of ground gasses (carbon dioxide and methane). Therefore, it is recommended to confirm the risk by completing a phase of ground gas monitoring.
Pathways:
P1 = Inhalation of air (wind-blown particles, vapours, gasses)
P2 = Dermal/direct contact (limited risk through areas of private gardens and soft landscaping)
P3 = Ingestion (limited risk through areas of private gardens and soft landscaping)
P4 = Migration through services (potable water supply)
P5 = Direct contact with building materials (aggressive ground conditions for buried concrete)
P6 = Surface Run-off
P7 = Leaching from Soils
Receptors:
R1 = Human Health (Residential End Users and Construction Workforce)
R2 = Controlled Waters (Principal Aquifer)
R3 = Building Materials and Buried Utilities
R4 = Flora and Fauna (future private gardens and soft landscaping)

5.0 Preliminary Qualitative Risk Assessment

5.1 Qualitative Geotechnical Risk Assessment – Risk Meter

The preliminary Geotechnical Risk Meter below indicates the potential level of geotechnical risk associated with the proposed development. The risk meter takes into account past development, geology, mining and other geotechnical factors which have been discussed earlier in the report.

Geotechnical:						
RISK =	NEGLIGIBLE	VERY LOW	LOW	MODERATE	HIGH	VERY HIGH

A risk level of LOW to MODERATE is determined appropriate for this development area for the following reasons:

- The site has been previously developed, therefore relic floor slabs and foundations may need to be grubbed out prior to development.
 - Localised made ground associated with the previous foundations and buried utilities are anticipated.
- The site is in an area where there is a risk of significant soluble rocks within the underlying geology. While the overall possibility of localised subsidence or dissolution-related degradation of the bedrock is considered low, there remains a potential for such occurrences under adverse conditions, particularly when there is high surface or subsurface water flow.
- Geological records indicate that the site is underlain by glacial till deposits which can typically be variable in Cumbria, comprising firm and stiff sandy gravelly clays with bands/layers of sand and gravel. Cobbles and boulders will likely be abundant. As such, there is a potential for some variable ground conditions.
- Information suggests that the site is not at risk of coal mining related geohazards.
- Shallow groundwater is anticipated.
- Where clay soils are present, their soil shrinkability could be affected by mature vegetation such as trees.

Consequently, it is recommended to complete a Phase 2: Ground Investigation to confirm the underlying ground conditions (i.e. the presence of any made ground and the drift deposits) and to allow samples to be recovered for geotechnical laboratory analysis to aid the design of foundations, highways and drainage.

5.2 Qualitative Contamination Risk Assessment – Risk Meter

The following Risk Meter determines the potential level of risk associated with the development with respect to ground contamination, groundwater contamination and ground gas. The risk meter takes into account the anticipated **Sources – Pathways – Receptors** within the pollutant linkage model and CSM.

Ground Contamination: 						
RISK =	NEGLIGIBLE	VERY LOW	LOW	MODERATE	HIGH	VERY HIGH
Groundwater Contamination: 						
RISK =	NEGLIGIBLE	VERY LOW	LOW	MODERATE	HIGH	VERY HIGH
Ground Gas: (Carbon Dioxide and Methane) 						
RISK =	NEGLIGIBLE	VERY LOW	LOW	MODERATE	HIGH	VERY HIGH
Radon Gas: 						
	<1%	1%-3%	3%-5%	5%-10%	10%-30%	>30%*
Estimated Percentage of Dwellings Exceeding the Radon Action Level						

Ground Contamination: A risk level of LOW is currently determined appropriate for this development with respect to ground contamination. In summary, although the site has not been extensively developed for industrial use, the site has been developed historically for residential housing. Additionally, there is the potential for contamination of the site from off-site sources, within close proximity. Therefore, made ground is likely to comprise reworked natural drift deposits with some anthropogenic materials which could include (but not limited to) clinker, ash, brick, concrete, etc, with the potential for localised heavy metal contamination.

As the origin and type of the made ground is unknown, it is currently considered as a potential source of contamination. Additionally, some localised heavy metals may pose a risk to human health. Significant and potentially mobile contaminants are not anticipated site wide at this stage, however, it is recommended to complete a ground investigation to determine the shallow soil profile and allow samples to be recovered for chemical laboratory screening as part of a human health risk assessment.

At this stage, it is recommended that the soils are screened for a generic suite of contaminants that should include metals, metalloids, pH, water-soluble sulphate, total organic carbon, asbestos and speciated PAH.

If, during the ground investigation, areas of made ground or evidence of contamination are identified, it may be necessary to increase the range of contaminant screening depending on the nature and type of possible contaminants encountered.

Groundwater Contamination: A risk level of VERY LOW is currently considered appropriate for the site with respect to potential risks to controlled waters (groundwater, nearby surface water features) and adjacent sites. While potential localised contamination sources have been identified in the vicinity, it is notable that no watercourses traverse the site itself. However, there remains a possibility of shallow

groundwater being present within the area. Furthermore, the underlying aquifer beneath the site is classified as a Principal Aquifer.

Ground Gas: A risk level of LOW to MODERATE is currently considered appropriate for the site with respect to potential harmful ground gas. The site previously housed a number of residential dwellings, which were demolished in the early 2000's. Additionally, is located within close proximity of former opencast limekilns, a subsequent landfill site and various ponds which, were infilled during the 2010's. Therefore, it is recommended that a phase of gas monitoring is carried out as part an intrusive ground investigation. Given the proposed end use (residential), the gas monitoring must comprise at least 6 visits over a minimum period of 3 months.

Radon Gas: The site is located within a Radon Affected Area as defined by the British Geological Survey and UK Health Security Agency, as between 10% and 30% of properties are above the action level. Consequently, full radon protection measures are necessary and the site will require a Ground Gas Verification Plan.

The site will require consultation with the Local Authority with respect to the appropriate protection measures and their installation. They may require a Remediation Strategy detailing the protection measures to be installed and a Verification Plan detailing the installation and verification parameters.

6.0 Conclusions

When considering the results of this DTS report, the following can be seen:

- The development site is currently considered to represent a low to moderate geotechnical risk.
- The site is currently considered to pose a low risk to the proposed end users from ground contamination.
- The site is currently considered to pose a very low risk to adjacent sites (the surrounding environment) and controlled waters with respect to potential ground/groundwater contamination.
- The site is currently considered to pose a low to moderate risk to the proposed end users from ground gas.
- Radon protection Measures should be installed in all new buildings (the site will require a Ground Gas Verification Plan).

It is recommended to complete a programme of Ground Investigation works to fully characterise the ground/groundwater conditions and ground gas regime below the site. The resulting information should be suitable for submission to the Local Authority for planning purposes and for the appointed design team.

In summary, the site works should include, but not limited to:

- Mini percussion boreholes and/or trial pits to determine the nature and in-situ strength of the underlying ground conditions across the development site.
- Soil logging by a suitably qualified and experienced Geo-Environmental Engineer.
- In-situ testing to aid foundation design.
- In-situ ground permeability analysis (if ground conditions appear favourable).
- Laboratory based geotechnical testing.
- Laboratory screening of soil samples.
- Installation of ground gas monitoring wells.
- Ground gas monitoring (minimum 6 visits over 3 months).

The results of the intrusive ground investigation should be compiled in an interpretive Ground Investigation Report (GIR) and include recommendations remediation or any further works that are deemed necessary.

Laboratory screening of soil samples will be required as part of a Level 1 Generic Quantitative Risk Assessment (GQRA) for Human Health to determine the risk to potential receptors, namely residents.

GEO recommends that a “watching brief” and “observational technique” be applied to this site to ensure that if ground conditions appear to vary from those inferred within this investigation report then advice should be sought from a suitably qualified and experienced Geo-Environmental Engineer. In the event that made ground is identified during works on site then sampling of those materials should be completed by an appropriate Geo-Environmental Engineer to facilitate contamination screening and a Human Health Risk Assessment.

GEO is not responsible for the accuracy and completeness of third-party information and cannot be held responsible for any errors or omissions that may occur. The contents of this report have been specifically requested by the client and therefore any items not specifically mentioned cannot be assumed to be covered.

The conclusions and recommendations presented within this report are considered reasonable based on the available information. However, these cannot be guaranteed to gain regulatory approval. Therefore, the report should be passed to the appropriate Regulatory Authorities and/ or other key stakeholders including warranty providers in order to seek their approval of the findings prior to finalising any land

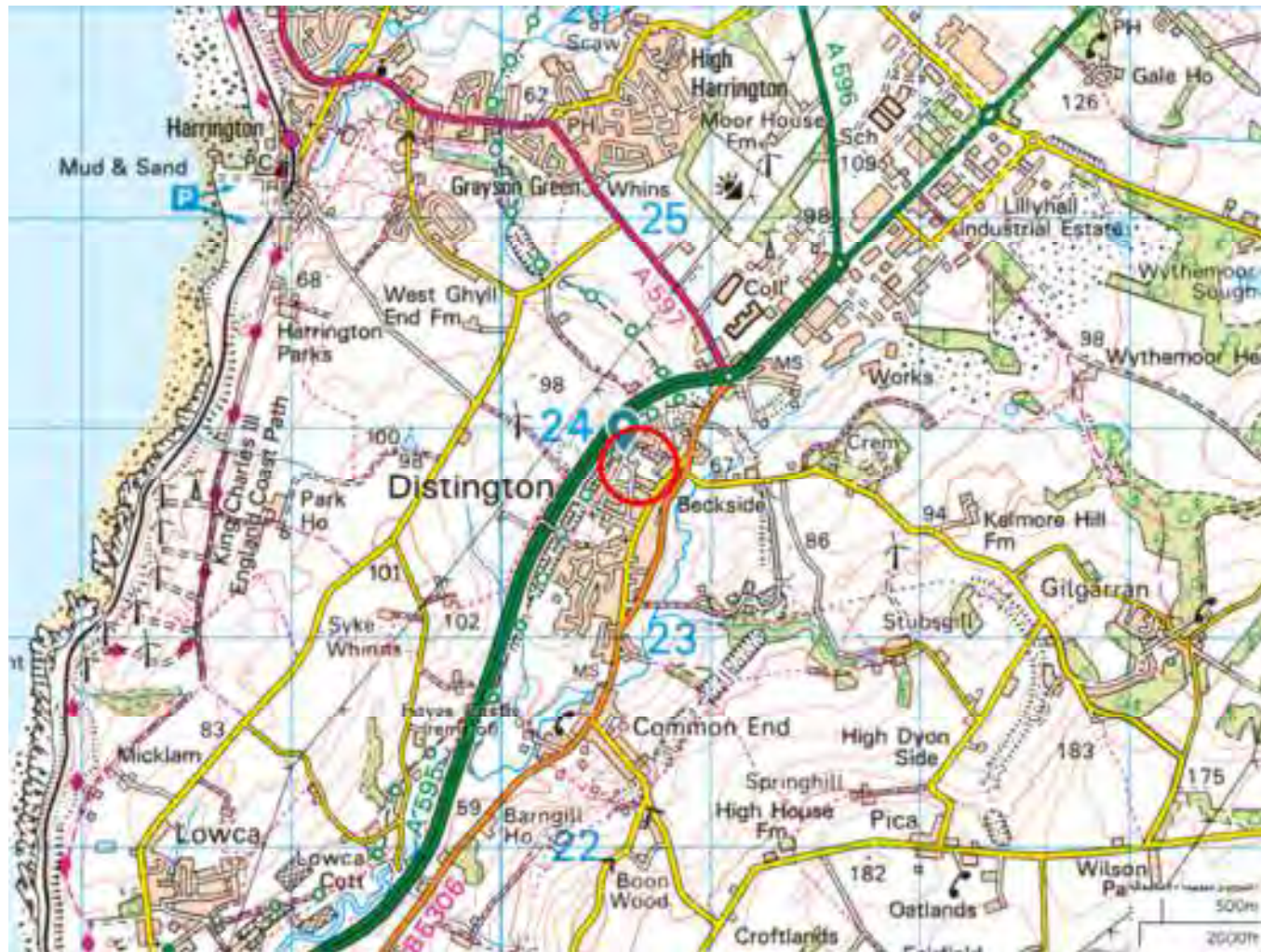
values as part of a site acquisition or prior to undertaking any construction or redevelopment works on site.

End of Report

Appendix I

- Site Location Plan
- Aerial Image
- Existing Site Plan (Topographic Survey)
- Proposed Site Development Plan
- Site Photographs (December 2025)

GEO2025-7005: BARFS ROAD, DISTINGTON – Site Location Plan



Website: www.geoenvironmentalengineering.com

Email: info@geoenvironmentalengineering.com

Telephone: 07883 440 186

GEO2025-7005: BARFS ROAD, DISTINGTON – Aerial Image



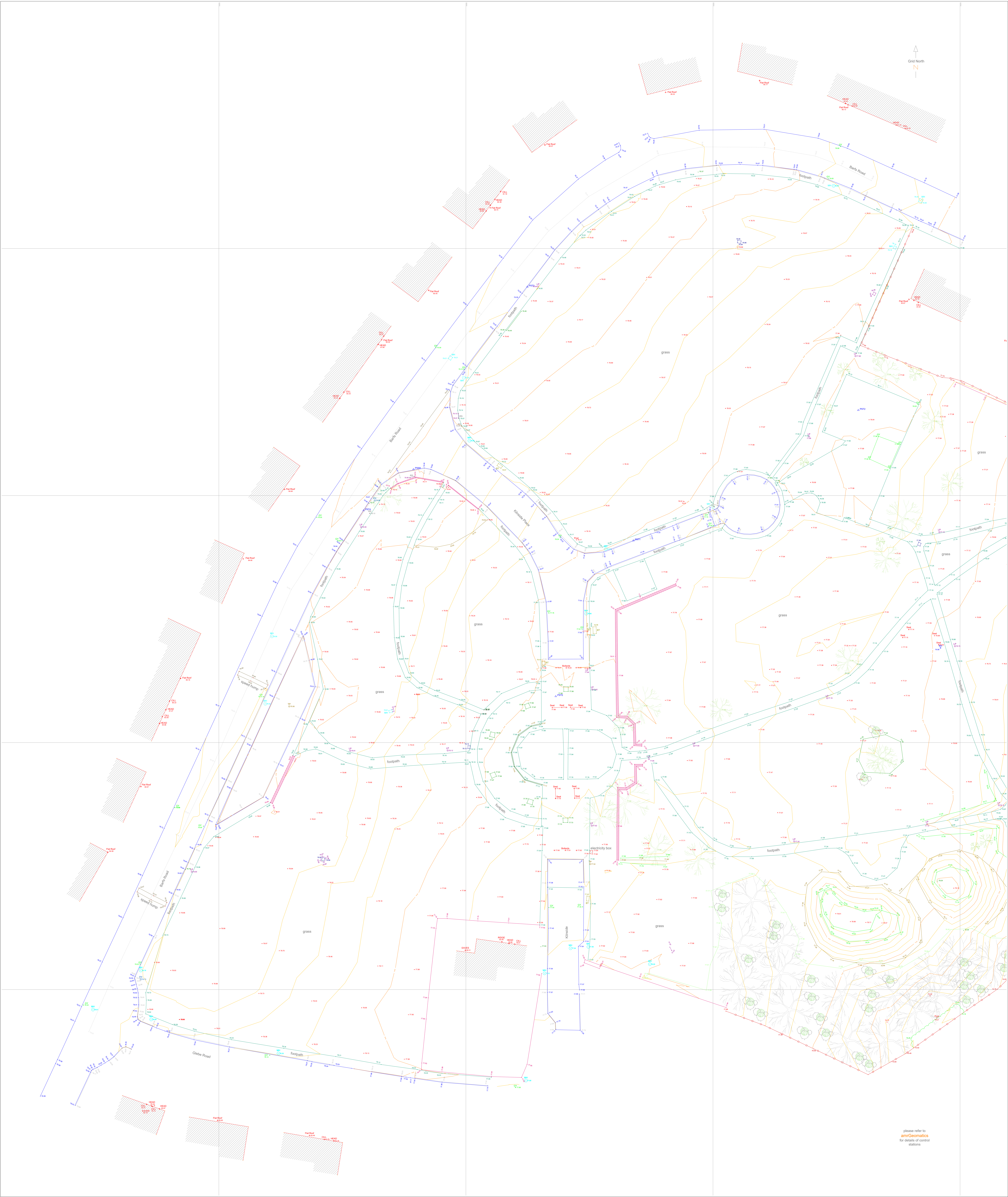
Website: www.geoenvironmentalengineering.com

Email: info@geoenvironmentalengineering.com

Telephone: 07883 440 186

GEO2025-7005: BARFS ROAD, DISTINGTON – Site Photographs (December 2025)





please refer to
amrGeomatics
for details of control
stations

Legend			
	Building		Steep Slope
	Barrier		Spot height in metres
	Bottom of Bank		Post Box
	British Telecom		Borehole
	Concrete		Bus Stop
	Canopy		Cable TV
	Drop Kerb		Electricity Pole
	Drain		Earth Rod
	Fence		Fire Hydrant
	Flower Bed		Floor Level
	Fence - Birdsmouth		Flag Pole
	Foliage		Gas Valve
	Footpath		Gas Marker
	Fence - Security		Gate Post
	Fence - Wire		Gully
	Grass		Inspection Chamber
	Gate		Invert Level
	Hedge		Lamp Post
	Kerb		Manhole
	Kerb Top		Marker
	Lake / Pond		Rodding Eye
	Marsh		Road Sign
	Overhead Electricity Line		Stop Cock
	Overhead Telephone Line		Septic Tank
	Ramp		Survey Station
	Sign Post		Sign Post
	Tarmac		Stop Valve
	Top of Bank		Traffic Light
	Track		Telegraph Pole
	Verge		Water Meter
	Wall		Tree (deciduous)
	Contours		Tree (coniferous)
	Tree (unsurveyed)		
	Shrub		
	Road Markings		

SURVEY STATIONS MARKED WITH ROAD NAILS AND PEGS
WITH COORDINATES RELATING TO OSGB36 NATIONAL GRID

SITE LEVELS MARKED AT STATIONS RELATE TO
ORDNANCE DATUM OSGM15, VIA DIFFERENTIAL GPS.

USE ONLY FOR THE PURPOSE INDICATED BELOW

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Drawn By	MRH	Checked By	LR

DRAWING REVISION RECORD			
No.	Detail	DWG No.	Date
1			
2			
3			
4			

Chartered Land
Surveyors

www.amrGeomatics.co.uk

Site	"BARF'S ROAD, DISTINGTON"	
	CUMBRIA	

Drawing

TOPOGRAPHICAL SURVEY

Date	28 NOV 2025	Drawing No.	P17366/amr/1
Scale	1: 250 @ A0		Subm. 01

Chartered Land Surveyors
mail@amrGeomatics.co.uk

amrGeomatics Northern Ltd
1 Fore Street
Hexham
Northumberland
NE46 1ND
T: 01434 600320
M: 07971 672071

House Type	Count	Floor Area
HT-A 2 bed 3 person bungalow	9	61m2
HT-B 2 bed 3 person house	14	70.3m2
HT-C 3 Bed 5 Person House	30	94.1m2
HT-D 4 Bed 6 Person House	8	107.44m2

--- Demolition

--- Roof Protection Area

Note

This drawing must be printed in colour.



Proposed Site Plan Distington, Barf's Road

0m 10m 20m 30m 40m 50m
VISUAL SCALE 1:500 © A1

This drawing is to be read in conjunction with all related drawings. Dimensions must be checked and verified on site before commencing work or producing shop drawings. The originator must be notified immediately of any discrepancy. This drawing is copyright and remains the property of Architects Plus, and may not be reproduced in any way without written consent from Architects Plus.

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Company Registration
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Registered in England no. 4221140

Drawing			Status	
Proposed Site Plan			PL - Planning	
Project		Client name		RIBA stage
Distington, Barf's Road		Thomas Armstrong (Construction) Ltd		3 - Spatial Coordination
Date	Drawn by	Scale @ A1	Drawing number	Revision
15/05/2026	TP	As indicated	25030-PL004A	A

Appendix II

- Enviro+Geo Insight Ground Sure Report (GSR)

unspecified

Order Details

Date: 24/11/2025
Your ref: EMS_1065737_1334935
Our Ref: EMS-1065737_1341839

Site Details

Location: 300654 523812
Area: 2.57 ha
Authority: [Cumberland Council](#) ↗



[Summary of findings](#)

[p.2 >](#) [Aerial image](#)

[p.9 >](#)

[OS MasterMap site plan](#)

[p.14 >](#) [Insight User Guide](#) ↗

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 >	0	10	40	46	-
19 >	1.2 >	Historical tanks >	0	0	0	3	-
20 >	1.3 >	Historical energy features >	0	1	1	1	-
20	1.4	Historical petrol stations	0	0	0	0	-
20 >	1.5 >	Historical garages >	0	1	1	0	-
21	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
22 >	2.1 >	Historical industrial land uses >	0	11	58	67	-
27 >	2.2 >	Historical tanks >	0	0	0	4	-
28 >	2.3 >	Historical energy features >	0	2	2	2	-
28	2.4	Historical petrol stations	0	0	0	0	-
29 >	2.5 >	Historical garages >	0	4	1	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
30	3.1	Active or recent landfill	0	0	0	0	-
30	3.2	Historical landfill (BGS records)	0	0	0	0	-
31	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
31 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	1	0	-
31	3.5	Historical waste sites	0	0	0	0	-
31	3.6	Licensed waste sites	0	0	0	0	-
32 >	3.7 >	Waste exemptions >	0	0	1	25	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
34 >	4.1 >	Recent industrial land uses >	0	1	5	-	-
35	4.2	National Geographic Database (NGD) - Current or recent tanks	0	0	0	-	-
35 >	4.3 >	Current or recent petrol stations >	0	0	1	0	-
35	4.4	Electricity cables	0	0	0	0	-
36	4.5	Gas pipelines	0	0	0	0	-



36	4.6	Sites determined as Contaminated Land	0	0	0	0	-
36	4.7	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
36	4.8	Regulated explosive sites	0	0	0	0	-
36	4.9	Hazardous substance storage/usage	0	0	0	0	-
37	4.10	Historical licensed industrial activities (IPC)	0	0	0	0	-
37	4.11	Licensed industrial activities (Part A(1))	0	0	0	0	-
37 >	4.12 >	<u>Licensed pollutant release (Part A(2)/B) ></u>	0	0	0	1	-
37	4.13	Radioactive Substance Authorisations	0	0	0	0	-
38 >	4.14 >	<u>Licensed Discharges to controlled waters ></u>	0	0	3	0	-
38	4.15	Pollutant release to surface waters (Red List)	0	0	0	0	-
38	4.16	Pollutant release to public sewer	0	0	0	0	-
39	4.17	List 1 Dangerous Substances	0	0	0	0	-
39	4.18	List 2 Dangerous Substances	0	0	0	0	-
39 >	4.19 >	<u>Pollution Incidents (EA/NRW) ></u>	0	16	41	23	-
47	4.20	Pollution inventory substances	0	0	0	0	-
48	4.21	Pollution inventory waste transfers	0	0	0	0	-
48	4.22	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<u>Hydrogeology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
49 >	5.1 >	<u>Superficial aquifer ></u>	Identified (within 500m)				
51 >	5.2 >	<u>Bedrock aquifer ></u>	Identified (within 500m)				
52 >	5.3 >	<u>Groundwater vulnerability ></u>	Identified (within 50m)				
53 >	5.4 >	<u>Groundwater vulnerability- soluble rock risk ></u>	Identified (within 0m)				
53	5.5	Groundwater vulnerability- local information	None (within 0m)				
54 >	5.6 >	<u>Groundwater abstractions ></u>	0	0	0	0	2
55 >	5.7 >	<u>Surface water abstractions ></u>	0	0	0	0	4
56	5.8	Potable abstractions	0	0	0	0	0
57	5.9	Source Protection Zones	0	0	0	0	-
57	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<u>Hydrology ></u>	On site	0-50m	50-250m	250-500m	500-2000m

58 >	6.1 >	Water Network (OS MasterMap) >	0	0	21	-	-
60 >	6.2 >	Surface water features >	0	0	11	-	-
60 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
61 >	6.4 >	WFD Surface water bodies >	0	0	1	-	-
61 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
62	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
63 >	7.2 >	Historical Flood Events >	0	0	1	-	-
63	7.3	Flood Defences	0	0	0	-	-
63	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
63	7.5	Flood Storage Areas	0	0	0	-	-
64	7.6	Flood Zone 2	None (within 50m)				
64	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
65 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
67 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
68	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
69	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
69	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
69	10.4	Special Protection Areas (SPA)	0	0	0	0	0
69	10.5	National Nature Reserves (NNR)	0	0	0	0	0
70	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
70 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	2
70	10.8	Biosphere Reserves	0	0	0	0	0
70	10.9	Forest Parks	0	0	0	0	0
71	10.10	Marine Conservation Zones	0	0	0	0	0
71	10.11	Green Belt	0	0	0	0	0



71	10.12	Proposed Ramsar sites	0	0	0	0	0
71	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
71	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
72	10.15	Nitrate Sensitive Areas	0	0	0	0	0
72	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
73	10.17	SSSI Impact Risk Zones	0	-	-	-	-
73	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
74	11.1	World Heritage Sites	0	0	0	-	-
75	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
75	11.3	National Parks	0	0	0	-	-
75 >	11.4 >	Listed Buildings >	0	0	2	-	-
76	11.5	Conservation Areas	0	0	0	-	-
76	11.6	Scheduled Ancient Monuments	0	0	0	-	-
76	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
77 >	12.1 >	Agricultural Land Classification >	Grade 4 (within 250m)				
78	12.2	Open Access Land	0	0	0	-	-
78	12.3	Tree Felling Licences	0	0	0	-	-
78	12.4	Environmental Stewardship Schemes	0	0	0	-	-
79	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
80 >	13.1 >	Priority Habitat Inventory >	0	0	1	-	-
81	13.2	Habitat Networks	0	0	0	-	-
81 >	13.3 >	Open Mosaic Habitat >	0	0	1	-	-
81	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
82 >	14.1 >	10k Availability >	Identified (within 500m)				
83	14.2	Artificial and made ground (10k)	0	0	0	0	-

84	14.3	Superficial geology (10k)	0	0	0	0	-
84	14.4	Landslip (10k)	0	0	0	0	-
85	14.5	Bedrock geology (10k)	0	0	0	0	-
85	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
86 >	15.1 >	50k Availability >	Identified (within 500m)				
87 >	15.2 >	Artificial and made ground (50k) >	0	0	1	1	-
88	15.3	Artificial ground permeability (50k)	0	0	-	-	-
89 >	15.4 >	Superficial geology (50k) >	1	0	5	2	-
90 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
90 >	15.6 >	Landslip (50k) >	0	0	0	1	-
91	15.7	Landslip permeability (50k)	None (within 50m)				
92 >	15.8 >	Bedrock geology (50k) >	2	0	4	2	-
93 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
93 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	5	6	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
95 >	16.1 >	BGS Boreholes >	0	0	25	-	-
Page	Section	Natural ground subsidence >					
98 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
99 >	17.2 >	Running sands >	Very low (within 50m)				
100 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
101 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
102 >	17.5 >	Landslides >	Very low (within 50m)				
103 >	17.6 >	Ground dissolution of soluble rocks >	Low (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
105 >	18.1 >	BritPits >	0	0	5	3	-
108 >	18.2 >	Surface ground workings >	0	10	63	-	-
110	18.3	Underground workings	0	0	0	0	0
111	18.4	Underground mining extents	0	0	0	0	-



111	18.5	Historical Mineral Planning Areas	0	0	0	0	-
111 >	18.6 >	Non-coal mining >	0	0	3	1	4
112	18.7	JPB mining areas	None (within 0m)				
112	18.8	The Coal Authority non-coal mining	0	0	0	0	-
113	18.9	Researched mining	0	0	0	0	-
113	18.10	Mining record office plans	0	0	0	0	-
113	18.11	BGS mine plans	0	0	0	0	-
113 >	18.12 >	Coal mining >	Identified (within 0m)				
114	18.13	Brine areas	None (within 0m)				
114	18.14	Gypsum areas	None (within 0m)				
114	18.15	Tin mining	None (within 0m)				
114	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes >	On site	0-50m	50-250m	250-500m	500-2000m
115 >	19.1 >	Natural cavities >	0	0	1	0	-
116	19.2	Mining cavities	0	0	0	0	0
116	19.3	Reported recent incidents	0	0	0	0	-
116	19.4	Historical incidents	0	0	0	0	-
Page	Section	Radon >					
117 >	20.1 >	Radon >	Between 10% and 30% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
119 >	21.1 >	BGS Estimated Background Soil Chemistry >	2	1	-	-	-
119	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
119	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
120	22.1	Underground railways (London)	0	0	0	-	-
120	22.2	Underground railways (Non-London)	0	0	0	-	-
121	22.3	Railway tunnels	0	0	0	-	-
121 >	22.4 >	Historical railway and tunnel features >	0	0	5	-	-
121	22.5	Royal Mail tunnels	0	0	0	-	-

122 >	22.6 >	Historical railways >	0	1	2	-	-
122	22.7	Railways	0	0	0	-	-
122	22.8	Crossrail 2	0	0	0	0	-
122	22.9	HS2	0	0	0	0	-

Recent aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2025. All Rights Reserved.

Capture Date: 17/07/2021

Site Area: 2.57ha



Recent site history - 2019 aerial photograph



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Capture Date: 24/08/2019

Site Area: 2.57ha



Recent site history - 2008 aerial photograph



Capture Date: 05/10/2008

Site Area: 2.57ha



Recent site history - 2000 aerial photograph



Capture Date: 16/06/2000

Site Area: 2.57ha



Recent site history - 1999 aerial photograph



Capture Date: 26/07/1999

Site Area: 2.57ha



OS MasterMap site plan



Site Area: 2.57ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

96

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	9m SE	Smithy	1898	595372



ID	Location	Land use	Dates present	Group ID
B	37m NW	Cuttings	1898	614970
B	37m NW	Cuttings	1923	604963
B	37m NW	Cuttings	1923	612427
B	37m NW	Cuttings	1923	631462
B	37m NW	Cuttings	1923	639652
C	40m NW	Cuttings	1991	625464
B	40m NW	Cuttings	1951 - 1967	625056
B	41m NW	Cuttings	1938	652082
C	41m NW	Cuttings	1947	644712
D	54m NW	Cuttings	1947	629992
D	54m NW	Cuttings	1898	642862
1	59m NW	Unspecified Disused Workings	1991	598772
D	60m N	Cuttings	1991	609435
E	62m NW	Disused Quarries	1923	617621
E	62m NW	Unspecified Disused Quarries	1938	626090
E	62m NW	Unspecified Disused Quarries	1951 - 1967	624606
E	62m NW	Unspecified Disused Quarries	1947	614888
E	62m NW	Unspecified Disused Quarries	1898	635037
F	91m SW	Unspecified Heap	1947	584974
F	93m SW	Unspecified Ground Workings	1923	642119
F	95m W	Cuttings	1898	651710
F	100m SW	Lime Kilns	1864	580057
G	140m W	Unspecified Disused Quarries	1967	647896
3	145m SW	Grave Yard	1864	576164
G	152m W	Disused Quarries	1923	645593
H	152m E	Unspecified Mill	1898	602301
H	153m E	Mill	1923	624661
H	153m E	Mill	1923	603304



ID	Location	Land use	Dates present	Group ID
G	154m W	Unspecified Disused Quarries	1938	613784
H	154m E	Unspecified Mill	1938	648128
G	156m W	Unspecified Disused Quarries	1947	612178
G	156m W	Unspecified Disused Quarries	1898	637484
H	157m E	Corn Mill	1864	568137
G	158m W	Unspecified Pit	1951	593730
E	166m NW	Unspecified Disused Quarries	1864	623061
H	170m NE	Police Station	1967 - 1991	622571
G	188m NW	Unspecified Disused Quarries	1864	602626
5	201m NE	Railway Sidings	1951 - 1967	610563
I	201m SW	Cuttings	1967	628740
J	213m SW	Cuttings	1938	610062
6	214m S	Saw Pit	1864	581920
J	215m SW	Cuttings	1898	628104
J	215m SW	Cuttings	1947	635803
I	220m SW	Cuttings	1923	623602
7	227m NE	Goods Station	1967	578091
I	230m SW	Cuttings	1951	631696
J	233m SW	Cuttings	1991	618313
8	234m SE	Sewage Works	1947 - 1951	639634
9	240m NW	Old Lime Kilns	1864	576054
K	262m W	Unspecified Ground Workings	1951	596962
L	279m N	Old Lime Kilns	1864	576052
L	283m N	Old Lime Kilns	1864	576053
M	304m NE	Railway Sidings	1938	626132
N	308m NE	Railway Sidings	1951 - 1967	632809
N	312m NE	Railway Sidings	1898	602508
N	312m NE	Railway Sidings	1947	652225



ID	Location	Land use	Dates present	Group ID
N	318m NE	Railway Sidings	1923	605307
N	318m NE	Railway Sidings	1923	615772
N	318m NE	Railway Sidings	1923	620014
N	318m NE	Railway Sidings	1923	642735
K	324m NW	Old Lime Kiln	1864	592362
N	328m NE	Railway Station	1923	643748
N	329m NE	Railway Station	1951	652262
N	331m NE	Railway Station	1898	615682
N	331m NE	Railway Station	1947	649805
N	333m NE	Railway Station	1938	605887
K	334m W	Old Lime Kiln	1864	592361
K	344m W	Old Lime Kiln	1864	592360
O	359m SW	Cuttings	1991	648328
O	386m SW	Cuttings	1938 - 1947	647661
O	388m SW	Cuttings	1898	622812
M	411m E	Railway Sidings	1898	617080
M	414m E	Railway Sidings	1923	620011
M	422m E	Railway Building	1898	599302
M	423m E	Tank	1923	627664
M	423m E	Unspecified Tank	1938	583569
M	438m E	Railway Building	1898	599303
13	446m NE	Unspecified Works	1967	580718
P	457m S	Refuse Heap	1938	645914
P	458m S	Refuse Heap	1947	651854
P	458m S	Refuse Heap	1951	643251
P	460m S	Gravel Pit	1923	631184
Q	465m NW	Unspecified Old Quarry	1898	581151
Q	465m NW	Unspecified Pit	1947	602458



ID	Location	Land use	Dates present	Group ID
Q	466m NW	Unspecified Pit	1923	612457
Q	466m NW	Unspecified Pit	1951 - 1991	623567
Q	467m NW	Unspecified Pit	1938	621529
14	482m NE	Ambulance Depot	1991	579068
15	483m E	Railway Building	1938	599467
R	485m E	Railway Sidings	1898	631111
P	486m S	Smithy	1898	595361
R	491m E	Railway Sidings	1923	614145
R	491m E	Railway Sidings	1923	632515
R	491m E	Railway Sidings	1923	641111
R	491m E	Railway Sidings	1923	643142

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

3

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

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
11	363m SW	Tank or Trough	1862	80637
M	421m E	Unspecified Tank	1925	75896
12	443m E	Unspecified Tank	1961	76225

This data is sourced from Ordnance Survey / Groundsure.



1.3 Historical energy features

Records within 500m

3

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

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
B	40m NW	Electricity Substation	1985 - 1988	46438
2	72m SE	Electricity Substation	1985 - 1988	46007
10	319m S	Electricity Substation	1985 - 1988	46972

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

2

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

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
A	1m SW	Garage	1961 - 1988	15597



ID	Location	Land use	Dates present	Group ID
4	176m NE	Garage	1998	15189

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

0

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

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



2 Past land use - un-grouped



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

2.1 Historical industrial land uses

Records within 500m

136

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 22](#) >

ID	Location	Land Use	Date	Group ID
A	9m SE	Smithy	1898	595372
B	37m NW	Cuttings	1898	614970
B	37m NW	Cuttings	1923	639652

ID	Location	Land Use	Date	Group ID
B	37m NW	Cuttings	1923	631462
B	37m NW	Cuttings	1923	612427
B	37m NW	Cuttings	1923	604963
C	40m NW	Cuttings	1991	625464
B	40m NW	Cuttings	1967	625056
B	41m NW	Cuttings	1938	652082
C	41m NW	Cuttings	1947	644712
B	43m NW	Cuttings	1951	625056
D	54m NW	Cuttings	1947	629992
D	54m NW	Cuttings	1898	642862
1	59m NW	Unspecified Disused Workings	1991	598772
D	60m N	Cuttings	1991	609435
E	62m NW	Disused Quarries	1923	617621
E	62m NW	Disused Quarries	1923	617621
E	62m NW	Disused Quarries	1923	617621
E	62m NW	Disused Quarries	1923	617621
E	62m NW	Unspecified Disused Quarries	1938	626090
E	62m NW	Unspecified Disused Quarries	1951	624606
E	62m NW	Unspecified Disused Quarries	1967	624606
E	62m NW	Unspecified Disused Quarries	1947	614888
E	62m NW	Unspecified Disused Quarries	1898	635037
G	91m SW	Unspecified Heap	1947	584974
G	93m SW	Unspecified Ground Workings	1923	642119
G	93m SW	Unspecified Ground Workings	1923	642119
G	93m SW	Unspecified Ground Workings	1923	642119
G	93m SW	Unspecified Ground Workings	1923	642119
G	95m W	Cuttings	1898	651710
G	100m SW	Lime Kilns	1864	580057

ID	Location	Land Use	Date	Group ID
H	140m W	Unspecified Disused Quarries	1967	647896
2	145m SW	Grave Yard	1864	576164
H	152m W	Disused Quarries	1923	645593
H	152m W	Disused Quarries	1923	645593
H	152m W	Disused Quarries	1923	645593
H	152m W	Disused Quarries	1923	645593
I	152m E	Unspecified Mill	1898	602301
I	153m E	Mill	1923	624661
I	153m E	Mill	1923	624661
I	153m E	Mill	1923	624661
I	153m E	Mill	1923	603304
H	154m W	Unspecified Disused Quarries	1938	613784
I	154m E	Unspecified Mill	1938	648128
H	156m W	Unspecified Disused Quarries	1947	612178
H	156m W	Unspecified Disused Quarries	1898	637484
I	157m E	Corn Mill	1864	568137
H	158m W	Unspecified Pit	1951	593730
E	166m NW	Unspecified Disused Quarries	1864	623061
I	170m NE	Police Station	1967	622571
I	170m NE	Police Station	1991	622571
H	188m NW	Unspecified Disused Quarries	1864	602626
J	201m NE	Railway Sidings	1951	610563
J	201m NE	Railway Sidings	1967	610563
K	201m SW	Cuttings	1967	628740
L	213m SW	Cuttings	1938	610062
4	214m S	Saw Pit	1864	581920
L	215m SW	Cuttings	1947	635803
L	215m SW	Cuttings	1898	628104

ID	Location	Land Use	Date	Group ID
K	220m SW	Cuttings	1923	623602
K	220m SW	Cuttings	1923	623602
K	220m SW	Cuttings	1923	623602
K	220m SW	Cuttings	1923	623602
5	227m NE	Goods Station	1967	578091
K	230m SW	Cuttings	1951	631696
L	233m SW	Cuttings	1991	618313
M	234m SE	Sewage Works	1947	639634
M	237m SE	Sewage Works	1951	639634
6	240m NW	Old Lime Kilns	1864	576054
N	262m W	Unspecified Ground Workings	1951	596962
O	279m N	Old Lime Kilns	1864	576052
O	283m N	Old Lime Kilns	1864	576053
P	304m NE	Railway Sidings	1938	626132
Q	308m NE	Railway Sidings	1951	632809
Q	308m NE	Railway Sidings	1967	632809
Q	312m NE	Railway Sidings	1947	652225
Q	312m NE	Railway Sidings	1898	602508
Q	318m NE	Railway Sidings	1923	620014
Q	318m NE	Railway Sidings	1923	642735
Q	318m NE	Railway Sidings	1923	605307
Q	318m NE	Railway Sidings	1923	615772
N	324m NW	Old Lime Kiln	1864	592362
Q	328m NE	Railway Station	1923	643748
Q	328m NE	Railway Station	1923	643748
Q	328m NE	Railway Station	1923	643748
Q	328m NE	Railway Station	1923	643748
Q	329m NE	Railway Station	1951	652262



ID	Location	Land Use	Date	Group ID
Q	331m NE	Railway Station	1947	649805
Q	331m NE	Railway Station	1898	615682
Q	333m NE	Railway Station	1938	605887
N	334m W	Old Lime Kiln	1864	592361
N	344m W	Old Lime Kiln	1864	592360
S	359m SW	Cuttings	1991	648328
S	386m SW	Cuttings	1938	647661
S	388m SW	Cuttings	1947	647661
S	388m SW	Cuttings	1898	622812
P	411m E	Railway Sidings	1898	617080
P	414m E	Railway Sidings	1923	620011
P	414m E	Railway Sidings	1923	620011
P	414m E	Railway Sidings	1923	620011
P	414m E	Railway Sidings	1923	620011
P	422m E	Railway Building	1898	599302
P	423m E	Tank	1923	627664
P	423m E	Tank	1923	627664
P	423m E	Tank	1923	627664
P	423m E	Tank	1923	627664
P	423m E	Unspecified Tank	1938	583569
P	438m E	Railway Building	1898	599303
8	446m NE	Unspecified Works	1967	580718
U	457m S	Refuse Heap	1938	645914
U	457m S	Refuse Heap	1938	645914
U	458m S	Refuse Heap	1947	651854
U	458m S	Refuse Heap	1951	643251
U	460m S	Gravel Pit	1923	631184
U	460m S	Gravel Pit	1923	631184

ID	Location	Land Use	Date	Group ID
U	460m S	Gravel Pit	1923	631184
U	460m S	Gravel Pit	1923	631184
V	465m NW	Unspecified Old Quarry	1898	581151
V	465m NW	Unspecified Pit	1947	602458
V	466m NW	Unspecified Pit	1923	612457
V	466m NW	Unspecified Pit	1923	612457
V	466m NW	Unspecified Pit	1923	612457
V	466m NW	Unspecified Pit	1923	612457
V	466m NW	Unspecified Pit	1951	623567
V	466m NW	Unspecified Pit	1967	623567
V	466m NW	Unspecified Pit	1991	623567
V	467m NW	Unspecified Pit	1938	621529
V	467m NW	Unspecified Pit	1938	621529
9	482m NE	Ambulance Depot	1991	579068
10	483m E	Railway Building	1938	599467
W	485m E	Railway Sidings	1898	631111
U	486m S	Smithy	1898	595361
W	491m E	Railway Sidings	1923	614145
W	491m E	Railway Sidings	1923	641111
W	491m E	Railway Sidings	1923	643142
W	491m E	Railway Sidings	1923	632515

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

4

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. 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 22 >](#)



ID	Location	Land Use	Date	Group ID
T	363m SW	Tank or Trough	1862	80637
T	363m SW	Tank or Trough	1862	80637
P	421m E	Unspecified Tank	1925	75896
7	443m E	Unspecified Tank	1961	76225

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	6

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

Features are displayed on the Past land use - un-grouped map on [page 22 >](#)

ID	Location	Land Use	Date	Group ID
B	40m NW	Electricity Substation	1985	46438
B	40m NW	Electricity Substation	1988	46438
F	72m SE	Electricity Substation	1988	46007
F	73m SE	Electricity Substation	1985	46007
R	319m S	Electricity Substation	1988	46972
R	320m S	Electricity Substation	1985	46972

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

5

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

Features are displayed on the Past land use - un-grouped map on [page 22 >](#)

ID	Location	Land Use	Date	Group ID
A	1m SW	Garage	1988	15597
A	1m SW	Garage	1961	15597
A	2m SE	Garage	1982	15597
A	2m SE	Garage	1985	15597
3	176m NE	Garage	1998	15189

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 30](#) >

ID	Location	Details		
1	139m W	Site Address: Barfs Quarry, Distington, Workington, Cumbria Licence Holder Address: The Courts, Carlisle, Cumbria	Waste Licence: Yes Site Reference: R44, E160.129 Waste Type: Inert, Industrial, Commercial, Household, Special Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 21/02/1979 Licence Surrender: -	Operator: - Licence Holder: Cumbria County Council First Recorded 23/08/1982 Last Recorded: 14/12/1985

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

26

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 30](#) >

ID	Location	Site	Reference	Category	Sub-Category	Description
2	163m S	Sherwood House, Barnhill, Disington, Workington, Ca14 5sy	WEX272556	Using waste exemption	Not on a farm	Use of waste in construction
A	346m E	Charolais Workington Cumbria Ca14 4qy	EPR/FE5885PE /A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
A	346m E	Charolais Workington Cumbria Ca14 4qy	EPR/FE5885PE /A001	Using waste exemption	Agricultural waste only	Use of waste for a specified purpose
A	346m E	Charolais Workington Cumbria Ca14 4qy	EPR/FE5885PE /A001	Disposing of waste exemption	Agricultural waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	346m E	Charolais Workington Cumbria Ca14 4qy	EPR/FE5885PE /A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
B	386m S	-	WEX426398	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	386m S	-	WEX294381	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	392m S	Distington Surgery Hinnings Road Workington Cumbria Ca14 5ur	EPR/RF0404PX /A001	Treating waste exemption	Non-agricultural waste only	Sorting and de-naturing of controlled drugs for disposal
B	392m S	Hinnings Road, Distington, Workington, Ca14 5ur	WEX124983	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	392m S	-	WEX265741	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
C	392m N	One Field At Distington Ca14 5tu	EPR/GE5984KF /A001	Using waste exemption	Agricultural waste only	Use of waste for a specified purpose
C	392m N	One Field At Distington Ca14 5tu	EPR/GE5984KF /A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters



ID	Location	Site	Reference	Category	Sub-Category	Description
C	392m N	One Field At Distinguon Ca14 5tu	EPR/GE5984KF /A001	Treating waste exemption	Agricultural waste only	Aerobic composting and associated prior treatment
C	392m N	One Field At Distinguon Ca14 5tu	EPR/GE5984KF /A001	Using waste exemption	Agricultural waste only	Use of waste in construction
C	392m N	One Field At Distinguon Ca14 5tu	EPR/GE5984KF /A001	Using waste exemption	Agricultural waste only	Burning of waste as a fuel in a small appliance
C	392m N	One Field At Distinguon Ca14 5tu	EPR/GE5984KF /A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
C	392m N	One Field At Distinguon Ca14 5tu	EPR/GE5984KF /A001	Treating waste exemption	Agricultural waste only	Screening and blending of waste
C	392m N	One Field At Distinguon Ca14 5tu	EPR/GE5984KF /A001	Using waste exemption	Agricultural waste only	Spreading waste on agricultural land to confer benefit
C	403m N	-	WEX053830	Disposing of waste exemption	On a farm	Burning waste in the open
C	403m N	-	WEX053830	Treating waste exemption	On a farm	Screening and blending of waste
C	403m N	-	WEX053830	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	403m N	-	WEX053830	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
C	403m N	-	WEX053830	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
C	403m N	-	WEX053830	Using waste exemption	On a farm	Use of waste in construction
C	403m N	-	WEX053830	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
C	403m N	-	WEX053830	Using waste exemption	On a farm	Use of waste for a specified purpose

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- △ Current or recent petrol stations
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

6

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 34](#) >

ID	Location	Company	Address	Activity	Category
B	20m NW	Electricity Sub Station	Cumbria, CA14	Electrical Features	Infrastructure and Facilities
C	69m SE	Electricity Sub Station	Cumbria, CA14	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
6	94m SW	R A B Rallyesport	5, Barfs Road, Distington, Cumbria, CA14 5TG	Motorsport Services	Sport and Entertainment Support Services
F	142m NE	E B Lamb & Son	Town Head, Main Street, Distington, Workington, Cumbria, CA14 5SP	Fuel Distributors and Suppliers	Household, Office, Leisure and Garden
K	212m NE	G D A Body Repairs	Units 1-2 Barfs Road Depot, Barfs Road, Distington, Cumbria, CA14 5TG	Vehicle Repair, Testing and Servicing	Repair and Servicing
K	232m NE	Crones Motors	Barfs Road, Distington, Cumbria, CA14 5TG	Vehicle Repair, Testing and Servicing	Repair and Servicing

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	1

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 34 >](#)

ID	Location	Company	Address	LPG	Status
8	135m SE	OBSOLETE	Main Street, Distington, Workington, Cumbria, CA14 5SS	Not Applicable	Obsolete

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**1**

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

Features are displayed on the Current industrial land use map on [page 34 >](#)

ID	Location	Address	Details	
18	487m NE	EuroGarages, Lillyhall, Workington, CA14 4PJ	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.13 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 34](#) >

ID	Location	Address	Details	
H	159m E	MILL COTTAGES CSO, DISTINGTON, WORKINGTON, CUMBRIA, CA14 5SR	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01COP0024 Permit Version: 3 Receiving Water: DISTINGTON BECK	Status: VARIED UNDER EPR 2010 Issue date: 05/02/2016 Effective Date: 05/02/2016 Revocation Date: -
H	162m E	MILL COTTAGES CSO, DISTINGTON, WORKINGTON, CUMBRIA, CA14 5SR	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01COP0024 Permit Version: 2 Receiving Water: DISTINGTON BECK	Status: VARIED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 04/02/2016
H	162m E	MILL COTTAGES CSO, DISTINGTON, WORKINGTON, CUMBRIA, CA14 5SR	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01COP0024 Permit Version: 1 Receiving Water: DISTINGTON BECK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: 02/09/2010

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

80

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 34 >](#)

ID	Location	Details	
A	9m SE	Incident Date: 09/05/2001 Incident Identification: 4994 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
A	16m NE	Incident Date: 07/05/2001 Incident Identification: 4659 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Effects on Humans	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
1	20m NW	Incident Date: 06/05/2001 Incident Identification: 4652 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
B	23m N	Incident Date: 04/05/2001 Incident Identification: 4469 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)



ID	Location	Details	
2	24m S	Incident Date: 04/05/2001 Incident Identification: 4398 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
A	26m NE	Incident Date: 10/05/2001 Incident Identification: 5057 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
3	42m SE	Incident Date: 15/12/2001 Incident Identification: 48304 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	43m S	Incident Date: 09/05/2001 Incident Identification: 4943 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
C	43m S	Incident Date: 06/05/2001 Incident Identification: 4583 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
C	43m S	Incident Date: 21/04/2001 Incident Identification: 2916 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
C	43m S	Incident Date: 22/04/2001 Incident Identification: 3039 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
C	43m S	Incident Date: 23/04/2001 Incident Identification: 3056 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
C	43m S	Incident Date: 08/05/2001 Incident Identification: 4897 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
C	43m S	Incident Date: 23/05/2001 Incident Identification: 6516 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)



ID	Location	Details	
C	43m S	Incident Date: 02/10/2002 Incident Identification: 112202 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	43m S	Incident Date: 06/06/2002 Incident Identification: 83128 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
4	81m NE	Incident Date: 06/05/2001 Incident Identification: 4648 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
D	82m N	Incident Date: 04/05/2001 Incident Identification: 4375 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
D	82m N	Incident Date: 29/04/2001 Incident Identification: 3766 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
D	87m N	Incident Date: 21/04/2001 Incident Identification: 2918 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
D	87m NE	Incident Date: 21/04/2001 Incident Identification: 2939 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
D	88m NE	Incident Date: 10/05/2001 Incident Identification: 5130 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
D	88m NE	Incident Date: 24/04/2001 Incident Identification: 3329 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
D	88m NE	Incident Date: 03/05/2001 Incident Identification: 4341 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)



ID	Location	Details	
5	91m NE	Incident Date: 07/05/2001 Incident Identification: 4658 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Effects on Humans	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
D	92m N	Incident Date: 10/05/2001 Incident Identification: 5061 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
E	102m S	Incident Date: 01/03/2002 Incident Identification: 61243 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Sulphide Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
E	102m S	Incident Date: 01/03/2002 Incident Identification: 61243 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Sulphide Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
E	103m SE	Incident Date: 27/06/2001 Incident Identification: 11759 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
E	111m S	Incident Date: 09/05/2001 Incident Identification: 4960 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
7	125m E	Incident Date: 24/09/2002 Incident Identification: 110022 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
F	135m NE	Incident Date: 06/05/2001 Incident Identification: 4647 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
G	142m S	Incident Date: 25/04/2001 Incident Identification: 3347 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
G	142m S	Incident Date: 01/05/2001 Incident Identification: 3924 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)



ID	Location	Details	
9	149m S	Incident Date: 20/03/2001 Incident Identification: 576 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
F	162m NE	Incident Date: 06/12/2001 Incident Identification: 46757 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
I	165m S	Incident Date: 21/09/2002 Incident Identification: 109463 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
I	180m S	Incident Date: 09/05/2001 Incident Identification: 4957 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
J	188m E	Incident Date: 22/08/2002 Incident Identification: 102329 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
J	195m E	Incident Date: 13/09/2002 Incident Identification: 107546 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
I	196m S	Incident Date: 05/05/2001 Incident Identification: 4521 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
J	227m E	Incident Date: 06/06/2002 Incident Identification: 83349 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	239m NE	Incident Date: 11/12/2001 Incident Identification: 47624 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
M	246m S	Incident Date: 12/06/2001 Incident Identification: 8824 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)



ID	Location	Details	
M	246m S	Incident Date: 09/05/2001 Incident Identification: 4963 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
M	246m S	Incident Date: 05/07/2001 Incident Identification: 13837 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
M	246m S	Incident Date: 23/04/2001 Incident Identification: 3139 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
M	246m S	Incident Date: 24/04/2001 Incident Identification: 3218 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
M	246m S	Incident Date: 24/04/2001 Incident Identification: 3306 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
M	246m S	Incident Date: 05/05/2001 Incident Identification: 4498 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
M	246m S	Incident Date: 06/05/2001 Incident Identification: 4646 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
M	246m S	Incident Date: 06/05/2001 Incident Identification: 4653 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
M	246m S	Incident Date: 07/05/2001 Incident Identification: 4656 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Effects on Humans	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
M	246m S	Incident Date: 07/05/2001 Incident Identification: 4657 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Effects on Humans	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)



ID	Location	Details	
M	246m S	Incident Date: 08/05/2001 Incident Identification: 4741 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
M	246m S	Incident Date: 03/05/2001 Incident Identification: 4225 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
L	248m NE	Incident Date: 23/08/2001 Incident Identification: 26164 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
10	258m S	Incident Date: 30/10/2002 Incident Identification: 117576 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
J	265m E	Incident Date: 21/04/2003 Incident Identification: 152680 Pollutant: Sewage Materials:Oils and Fuel Pollutant Description: Storm Sewage:Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
J	265m E	Incident Date: 21/04/2003 Incident Identification: 152680 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
J	265m E	Incident Date: 21/04/2003 Incident Identification: 152680 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
N	274m NE	Incident Date: 26/09/2001 Incident Identification: 32983 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
11	276m N	Incident Date: 10/12/2002 Incident Identification: 125395 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 3 (Minor) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
12	278m E	Incident Date: 19/12/2002 Incident Identification: 126723 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)



ID	Location	Details	
N	302m NE	Incident Date: 16/09/2002 Incident Identification: 107985 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
13	362m S	Incident Date: 06/05/2001 Incident Identification: 4614 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Effects on Humans	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
O	402m NE	Incident Date: 19/09/2002 Incident Identification: 108880 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
14	402m S	Incident Date: 09/05/2001 Incident Identification: 4949 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
O	425m NE	Incident Date: 24/02/2002 Incident Identification: 60265 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
O	425m NE	Incident Date: 23/04/2001 Incident Identification: 3148 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
15	427m S	Incident Date: 11/05/2001 Incident Identification: 5208 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
16	451m SW	Incident Date: 04/05/2001 Incident Identification: 4476 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
P	457m S	Incident Date: 08/05/2001 Incident Identification: 4886 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
O	465m NE	Incident Date: 09/05/2001 Incident Identification: 4962 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)



ID	Location	Details	
O	465m NE	Incident Date: 21/04/2001 Incident Identification: 2967 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
P	468m S	Incident Date: 09/05/2001 Incident Identification: 4947 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
P	468m S	Incident Date: 09/05/2001 Incident Identification: 4907 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
17	470m S	Incident Date: 10/07/2001 Incident Identification: 15264 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
P	488m S	Incident Date: 09/05/2001 Incident Identification: 4923 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
P	488m S	Incident Date: 03/05/2001 Incident Identification: 4302 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)

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

4.20 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.

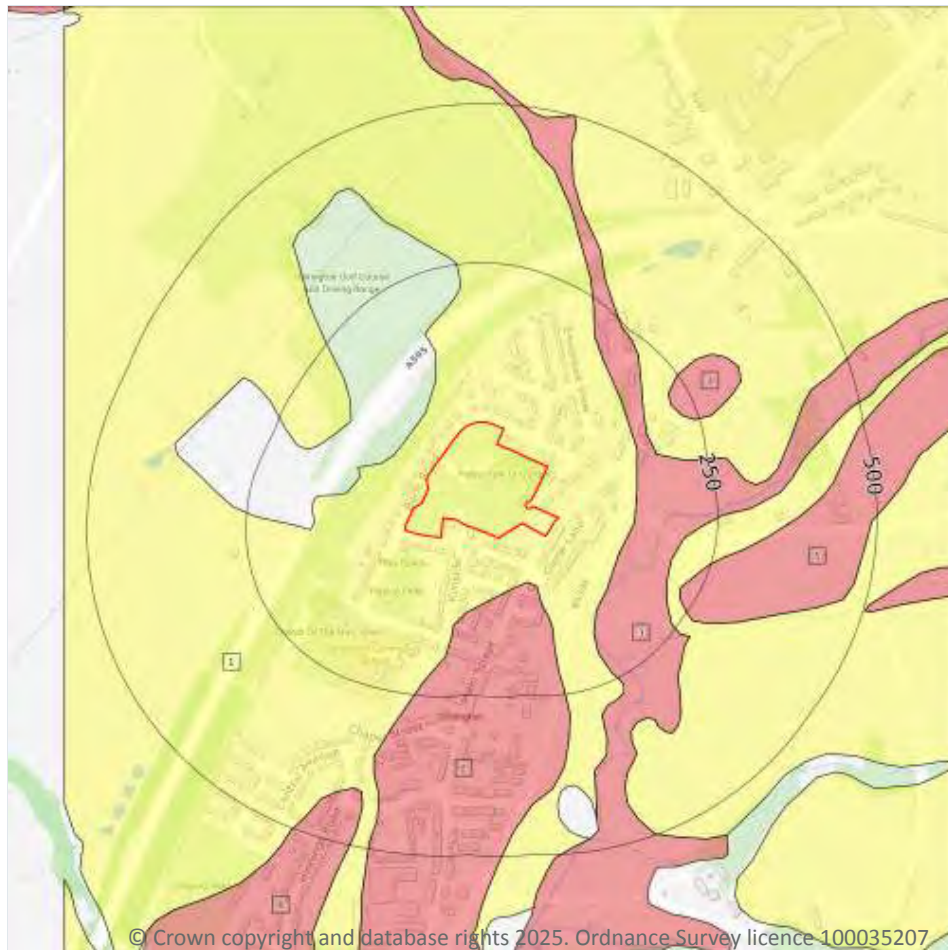
4.22 Pollution inventory radioactive waste

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



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

5.1 Superficial aquifer

Records within 500m

6

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 49](#) >

ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	78m S	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



ID	Location	Designation	Description
3	110m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	217m 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
5	221m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
6	411m S	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.

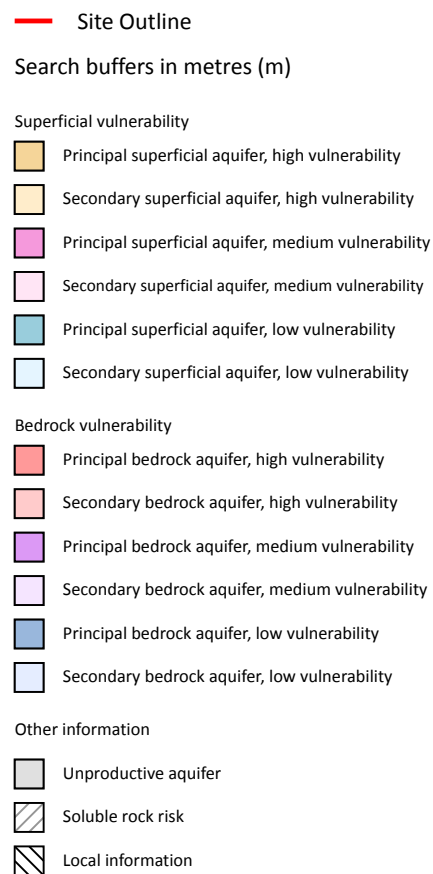
Features are displayed on the Bedrock aquifer map on [page 51](#) >

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

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

1

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

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

Features are displayed on the Groundwater vulnerability map on [page 52](#) >



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Low 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	1

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
2	Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.	18.0%

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

5.5 Groundwater vulnerability- local information

Records on site	0

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

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

Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

2

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 54](#) >

ID	Location	Details	
-	1436m NE	Status: Active Licence No: NW/074/0001/001 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE - LOWER COAL MEASURES - PITTWOOD ROAD Data Type: Point Name: Handy Concrete (Cumbria) Limited Easting: 301953 Northing: 524643	Annual Volume (m ³): 10010 Max Daily Volume (m ³): 35 Original Application No: NPS/WR/003456 Original Start Date: 28/09/2010 Expiry Date: 31/03/2026 Issue No: 1 Version Start Date: 28/09/2010 Version End Date: -
-	1947m NE	Status: Active Licence No: NW/074/0001/002 Details: Laundry Use Direct Source: Ground Water - North West Region Point: BOREHOLE - LOWER COAL MEASURES - JOSEPH NOBLE ROAD Data Type: Point Name: Shortridge Ltd Easting: 302221 Northing: 525130	Annual Volume (m ³): 60000 Max Daily Volume (m ³): 300 Original Application No: NPS/WR/015770 Original Start Date: 04/09/2018 Expiry Date: 31/03/2026 Issue No: 1 Version Start Date: 04/09/2018 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

4

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 54 >](#)

ID	Location	Details	
-	1046m NE	Status: Historical Licence No: 2774001001 Details: Non-Evaporative Cooling Direct Source: "Surface, Non-Tidal - North West Region" Point: "DISTINGTON BECK AT LILLYHALL, WORKINGTON" Data Type: Point Name: PECHINEY AVIATUBE LTD Easting: 301700 Northing: 524300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 29/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 18/04/2001 Version End Date: -



ID	Location	Details	
-	1046m NE	Status: Historical Licence No: 2774001001 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "DISTINGTON BECK AT LILLYHALL, WORKINGTON" Data Type: Point Name: PECHINEY AVIATUBE LTD Easting: 301700 Northing: 524300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 29/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 18/04/2001 Version End Date: -
-	1046m NE	Status: Historical Licence No: 2774001001 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: DISTINGTON BECK AT LILLYHALL, WORKINGTON Data Type: Point Name: PECHINEY AVIATUBE LTD Easting: 301700 Northing: 524300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 29/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 18/04/2001 Version End Date: -
-	1046m NE	Status: Historical Licence No: 2774001001 Details: Non-Evaporative Cooling Direct Source: Surface, Non-Tidal - North West Region Point: DISTINGTON BECK AT LILLYHALL, WORKINGTON Data Type: Point Name: PECHINEY AVIATUBE LTD Easting: 301700 Northing: 524300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 29/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 18/04/2001 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

0

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

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



5.9 Source Protection Zones

Records within 500m

0

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

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m

0

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

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



6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

21

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 58 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
A	111m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
B	111m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	111m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	115m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	123m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	131m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Distington Beck
E	138m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Distington Beck
F	145m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	145m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	146m NE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
F	146m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	169m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
G	182m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	189m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
D	214m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	231m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	232m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	232m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
5	233m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
H	238m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	239m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Distington Beck

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

11

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

Features are displayed on the Hydrology map on [page 58](#) >

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 58 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River	Lowca Beck	GB112074070040	Ehen-Calder	South West Lakes

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 58 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
4	144m SE	River	Lowca Beck	GB112074070040 ↗	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 58 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	Derwent and West Cumbria Lower Palaeozoic and Carboniferous Aquifers	GB41202G103700 ↗	Poor	Poor	Good	2019

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



7 River and coastal flooding



- Site Outline
- Search buffers in metres (m)
- River and coastal flooding:
- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

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

1

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.

Features are displayed on the River and coastal flooding map on [page 62](#) >

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
1	95m E	Flooding 05_11_1999	1999-11-05 1999-11-05	Main river	Channel capacity exceeded (no raised defences)	Fluvial

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

7.3 Flood Defences

Records within 250m

0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

7.5 Flood Storage Areas

Records within 250m

0

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

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



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0

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

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

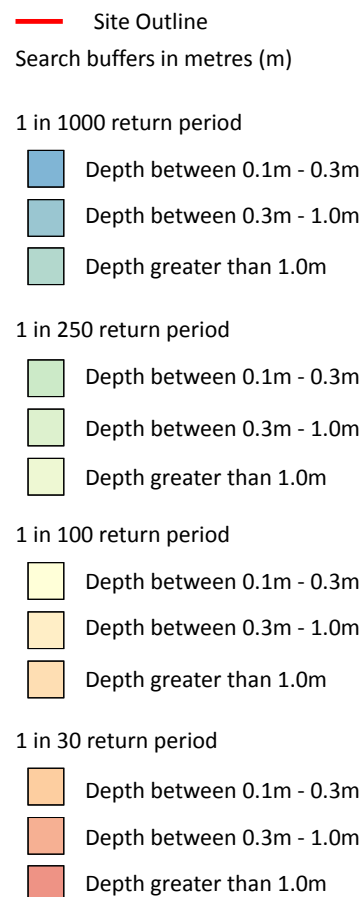
7.7 Flood Zone 3

Records within 50m	0

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

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

8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.3m - 1.0m

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 65](#) >

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

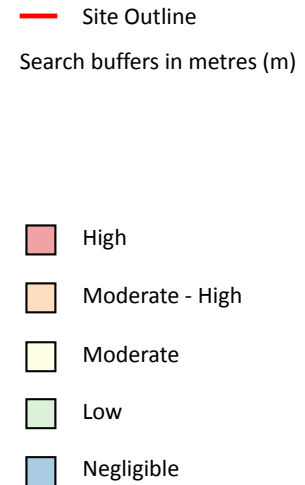
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.3m and 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.3m and 1.0m
1 in 30 year	Between 0.3m and 1.0m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

Low

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 67](#) >

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



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

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m**0**

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

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

10.7 Designated Ancient Woodland

Records within 2000m**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 68 >](#)

ID	Location	Name	Woodland Type
1	699m S	Unknown	Ancient & Semi-Natural Woodland
2	836m SE	Unknown	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m**0**

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

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

10.9 Forest Parks

Records within 2000m**0**

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

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m**0**

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

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

10.11 Green Belt

Records within 2000m**0**

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

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

10.12 Proposed Ramsar sites

Records within 2000m**0**

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m**0**

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

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

This data is sourced from Natural England.



10.15 Nitrate Sensitive Areas

Records within 2000m**0**

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m**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	0

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.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0

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

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



11 Visual and cultural designations



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

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m**0**

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

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

11.3 National Parks

Records within 250m**0**

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

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

11.4 Listed Buildings

Records within 250m**2**

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 74 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
1	168m SW	Chancel Arch From Medieval Church To North West Of Present Church	II	1086702	09/08/1984
2	181m SW	Church Of The Holy Spirit	II	1137112	09/08/1984

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



11.5 Conservation Areas

Records within 250m**0**

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

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

11.6 Scheduled Ancient Monuments

Records within 250m**0**

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

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

11.7 Registered Parks and Gardens

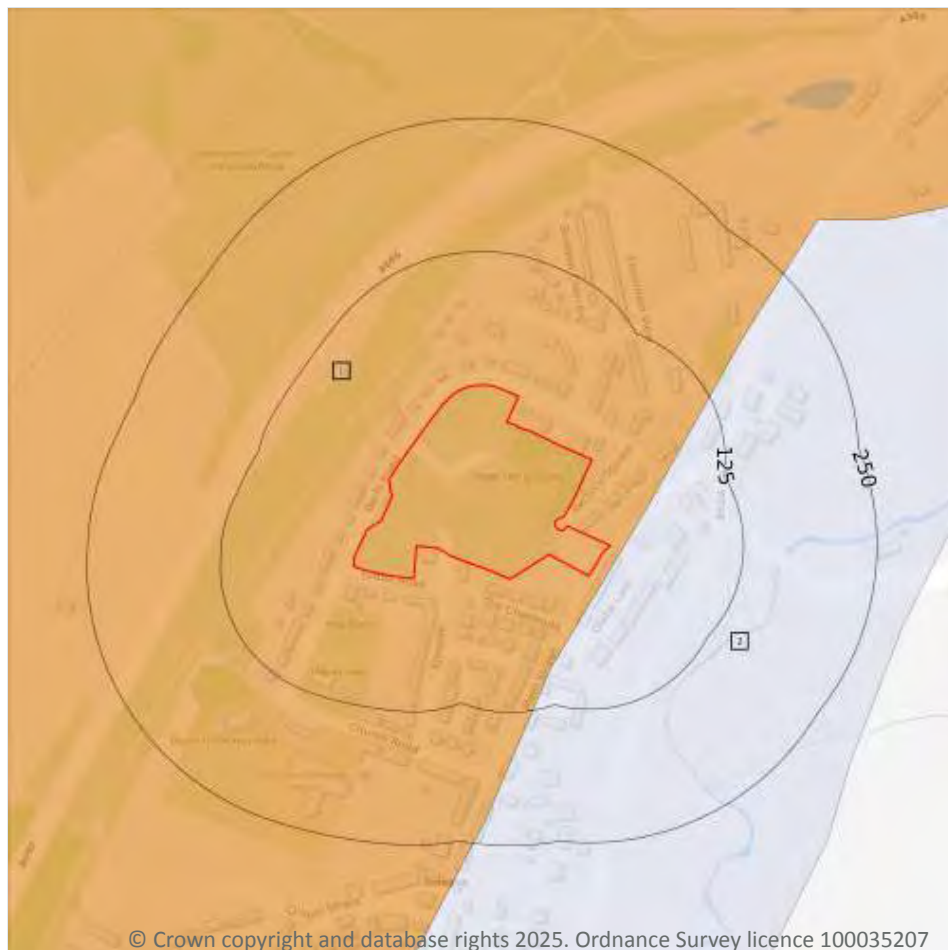
Records within 250m**0**

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

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



12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

2

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

Features are displayed on the Agricultural designations map on [page 77](#) >

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

ID	Location	Classification	Description
2	11m SE	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.

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

1

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

Features are displayed on the Habitat designations map on [page 80](#) >

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

This data is sourced from Natural England.



13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

1

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

Features are displayed on the Habitat designations map on [page 80 >](#)

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
1	231m NE	-	Low	UK Perspectives Aerial Photography	-	-

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



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

14.1 10k Availability

Records within 500m

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 82](#) >

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

This data is sourced from the British Geological Survey.



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

14.2 Artificial and made ground (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on [page 86](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW028_whitehaven_v4

This data is sourced from the British Geological Survey.



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



Site Outline
Search buffers in metres (m)

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

15.2 Artificial and made ground (50k)

Records within 500m

2

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 87](#) >

ID	Location	LEX Code	Description	Rock description
1	61m NW	LSGR-ARTGR	Landscaped Ground	Artificially modified ground
2	485m S	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

8

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 89](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	Till, Devensian	Diamicton
2	78m S	GFDUD-XSV	Glaciofluvial deposits, Devensian	Sand and gravel
3	110m SE	ALV-XCZSV	Alluvium	Clay, silt, sand and gravel



ID	Location	LEX Code	Description	Rock description
4	189m E	TILLD-DMTN	Till, Devensian	Diamicton
5	217m NE	GFDUD-XSV	Glaciofluvial deposits, Devensian	Sand and gravel
6	221m SE	GFDUD-XSV	Glaciofluvial deposits, Devensian	Sand and gravel
8	411m S	GFDUD-XSV	Glaciofluvial deposits, Devensian	Sand and gravel
9	499m S	ALF-XSV	Alluvial fan deposits	Sand and gravel

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

1

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Low

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 89](#) >

ID	Location	LEX Code	Description	Rock description
7	394m S	SLIP-UNKNOWN	Landslide deposits	Unknown/unclassified entry

This data is sourced from the British Geological Survey.



15.7 Landslip permeability (50k)

Records within 50m

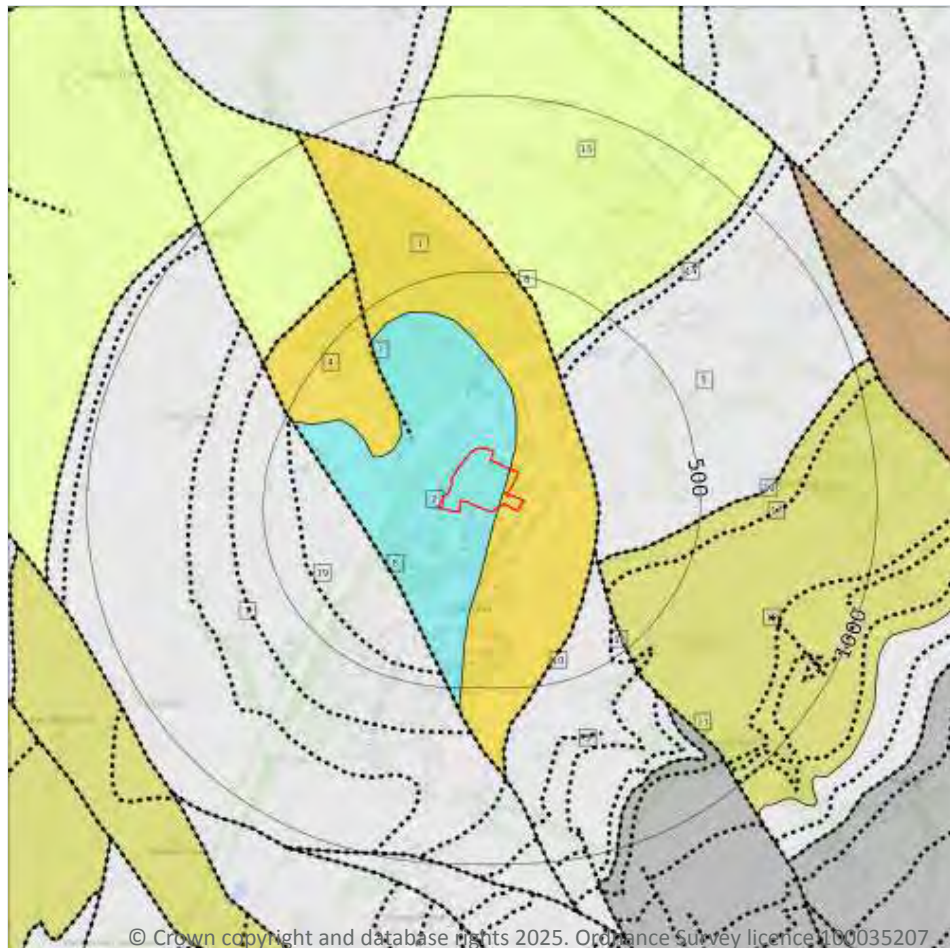
0

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

8

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 92 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	HG-SDST	Hensingham Grit-Sandstone	Namurian
2	On site	LM1-LMST	First Limestone (Cumbria)-Limestone	Namurian
4	184m NW	HG-SDST	Hensingham Grit-Sandstone	Namurian



ID	Location	LEX Code	Description	Rock age
5	199m E	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
7	213m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
9	245m SE	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
12	272m SE	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian
15	307m NE	SMGP-MDSS	Stainmore Formation-Mudstone, siltstone and sandstone	Namurian

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	2

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

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

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	11

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 92 >](#)

ID	Location	Category	Description
3	156m NW	FAULT	Fault, inferred, displacement unknown
6	199m E	FAULT	Fault, inferred, displacement unknown
8	213m SW	FAULT	Fault, inferred, displacement unknown

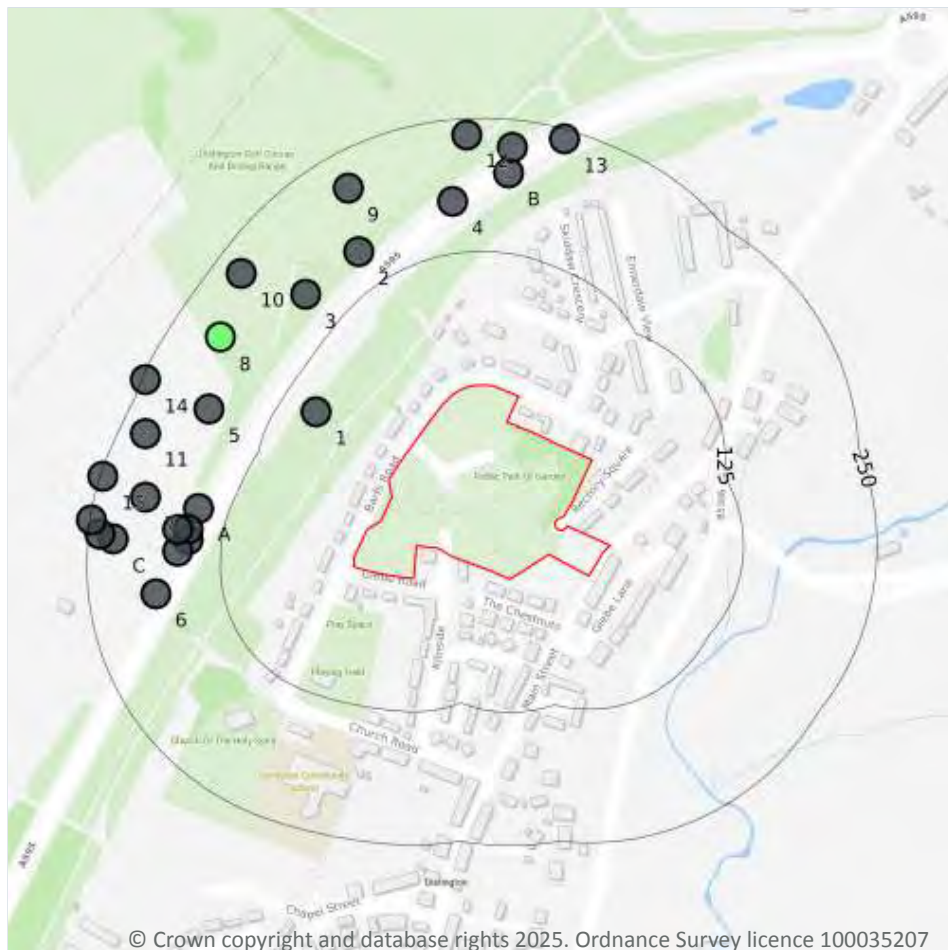


ID	Location	Category	Description
10	245m SE	FAULT	Fault, inferred, displacement unknown
11	245m SE	FAULT	Fault, inferred, displacement unknown
13	272m SE	ROCK	Coal seam, inferred
14	277m NE	ROCK	Coal seam, inferred
16	307m NE	FOSSIL_HORIZON	Marine band
17	342m SE	ROCK	Coal seam, inferred
18	388m SE	ROCK	Coal seam, inferred
19	398m W	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m

25

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

Features are displayed on the Boreholes map on [page 95 >](#)

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	92m NW	300500 523890	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 806	-	Y	N/A
A	153m W	300390 523800	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 816	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	156m W	300380 523770	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II TP1002	-	Y	N/A
A	158m W	300380 523780	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II TP1002A	-	Y	N/A
2	160m NW	300540 524040	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 702	-	Y	N/A
3	165m NW	300490 524000	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 807	-	Y	N/A
A	166m W	300370 523760	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 817	-	Y	N/A
A	168m W	300370 523780	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 815	-	Y	N/A
4	173m N	300628 524087	A595 LILLYHALL TO PARTON IMPROVEMENT 142/R142	-	Y	N/A
5	181m W	300400 523893	A595 LILLYHALL TO PARTON IMPROVEMENT 141/R141	-	Y	N/A
6	187m W	300350 523720	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II TP1003	-	Y	N/A
B	200m N	300680 524114	A595 LILLYHALL TO PARTON IMPROVEMENT 224/R224	-	Y	N/A
7	204m W	300340 523810	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 701	-	Y	N/A
8	205m NW	300410 523960	LIME QUARRIES	17.34	N	774072 ↗
9	216m NW	300530 524100	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 810	-	Y	N/A
B	224m N	300684 524138	A595 LILLYHALL TO PARTON IMPROVEMENT 225/R225	-	Y	N/A
10	224m NW	300430 524020	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 808	-	Y	N/A
C	226m W	300310 523771	A595 LILLYHALL TO PARTON IMPROVEMENT 222/R222	-	Y	N/A
11	226m NW	300340 523870	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 801	-	Y	N/A
12	235m N	300641 524150	A595 LILLYHALL TO PARTON IMPROVEMENT R227	-	Y	N/A
C	240m W	300297 523776	A595 LILLYHALL TO PARTON IMPROVEMENT TP TT401	-	Y	N/A

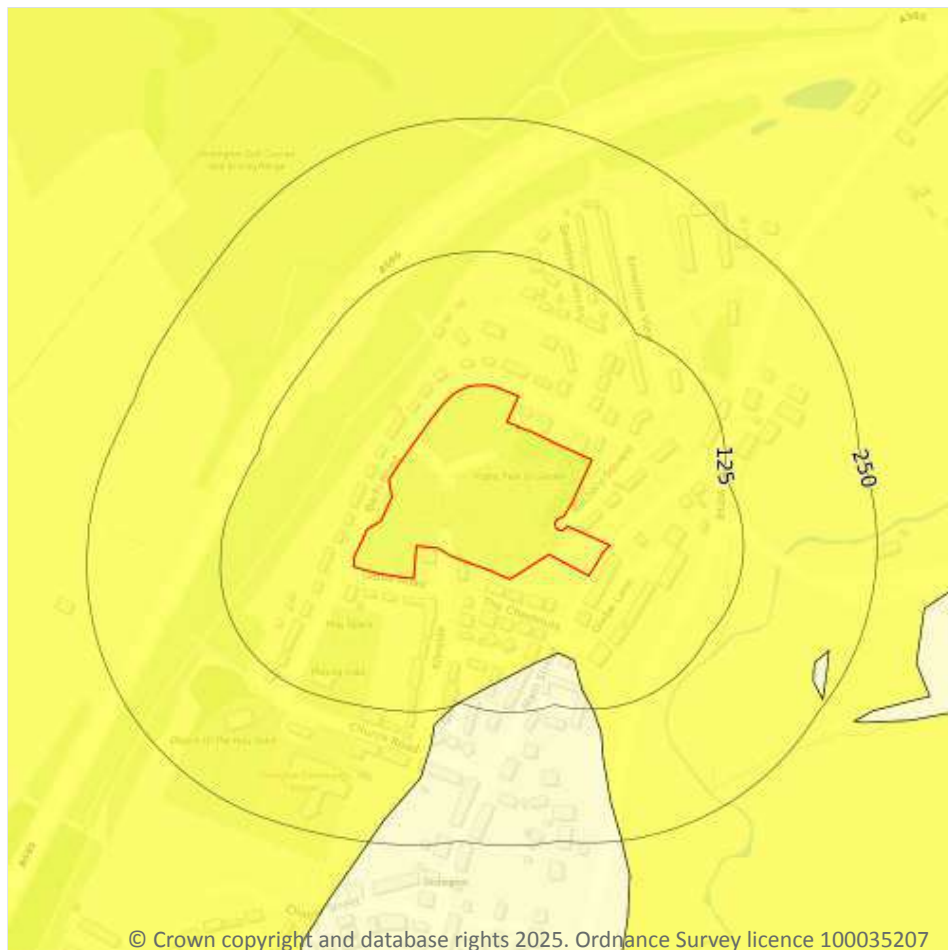


ID	Location	Grid reference	Name	Length	Confidential	Web link
13	241m N	300733 524146	A595 LILLYHALL TO PARTON IMPROVEMENT 143	-	Y	N/A
14	247m W	300340 523920	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 803	-	Y	N/A
15	248m W	300300 523830	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 802	-	Y	N/A
C	249m W	300289 523789	A595 LILLYHALL TO PARTON IMPROVEMENT 223/R223	-	Y	N/A

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



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

17.1 Shrink swell clays

Records within 50m

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).

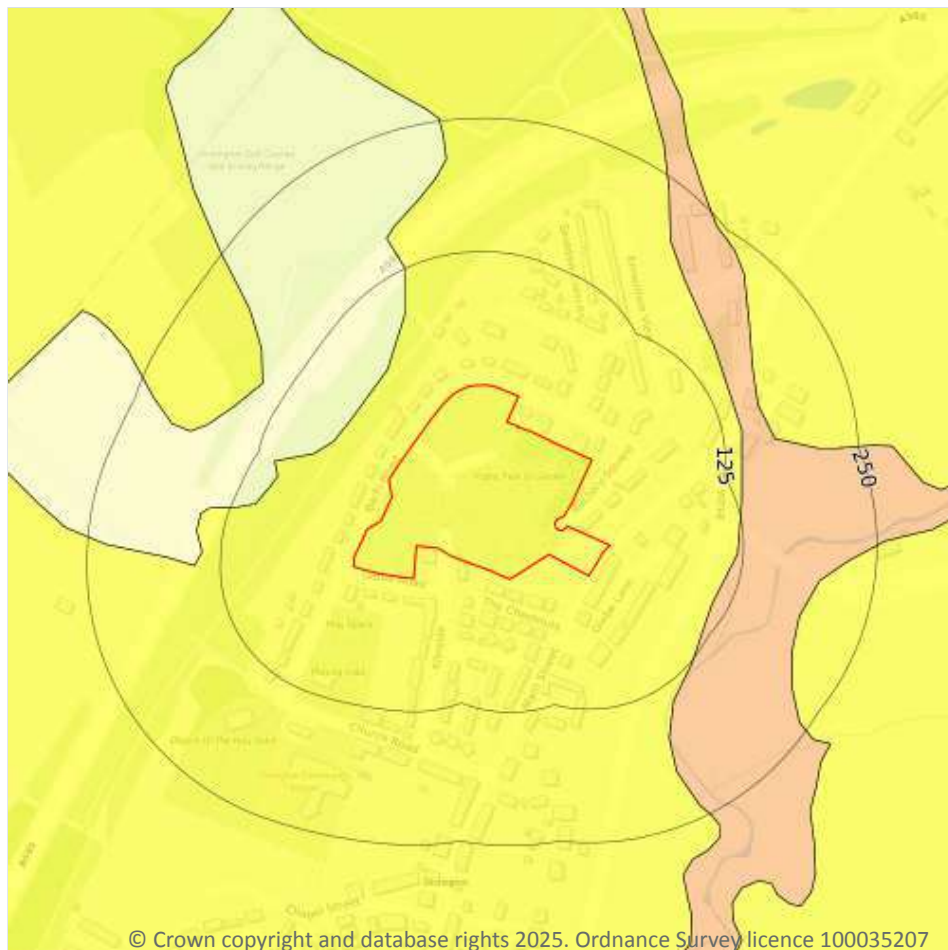
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 98](#) >

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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

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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.

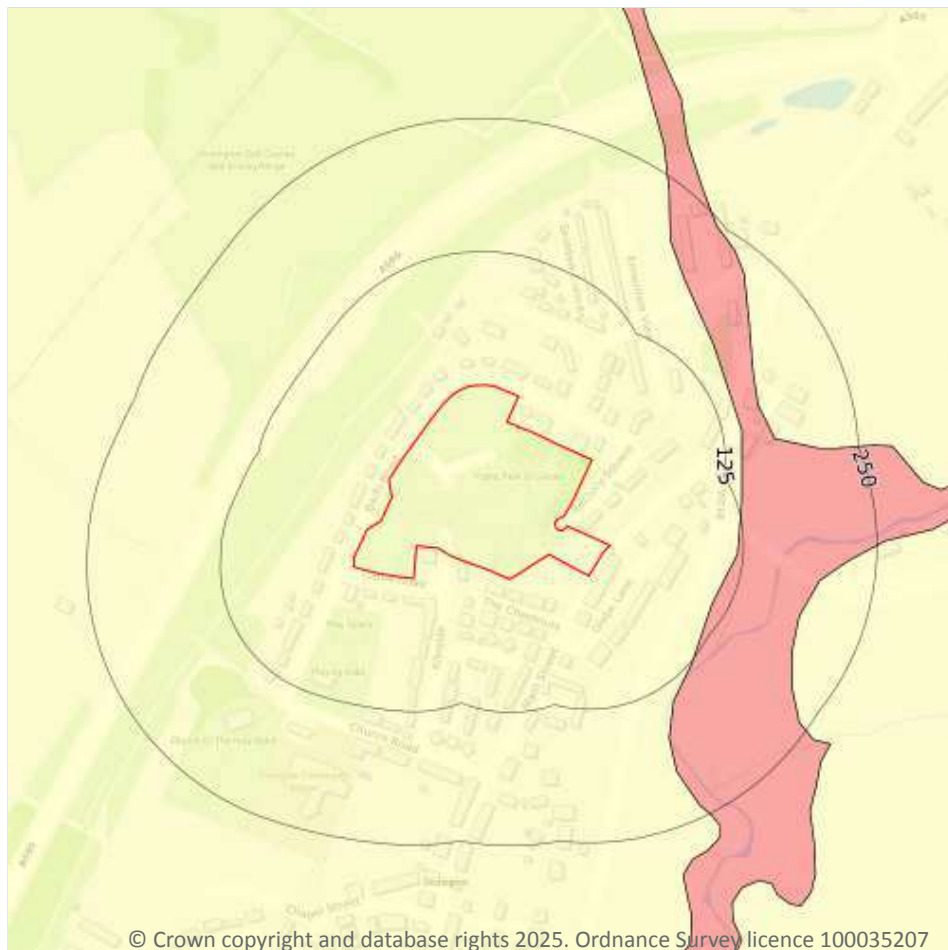
Features are displayed on the Natural ground subsidence - Running sands map on [page 99](#) >

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

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.

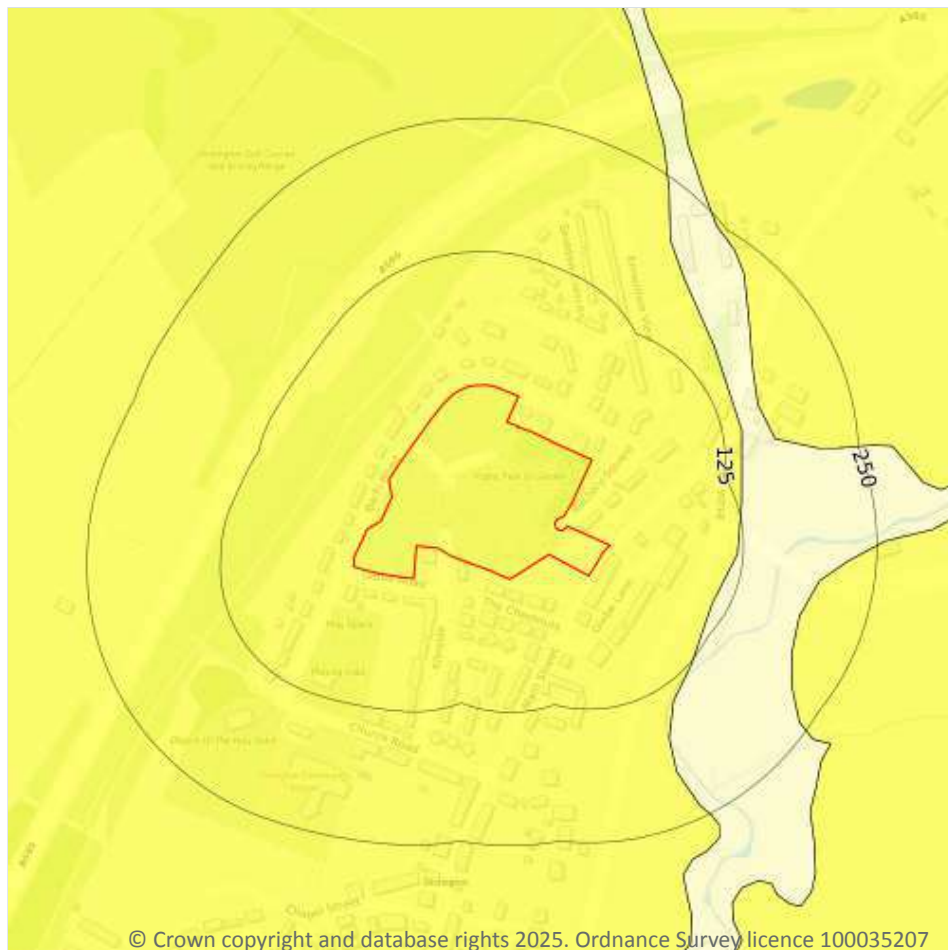
Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 100](#) >

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.

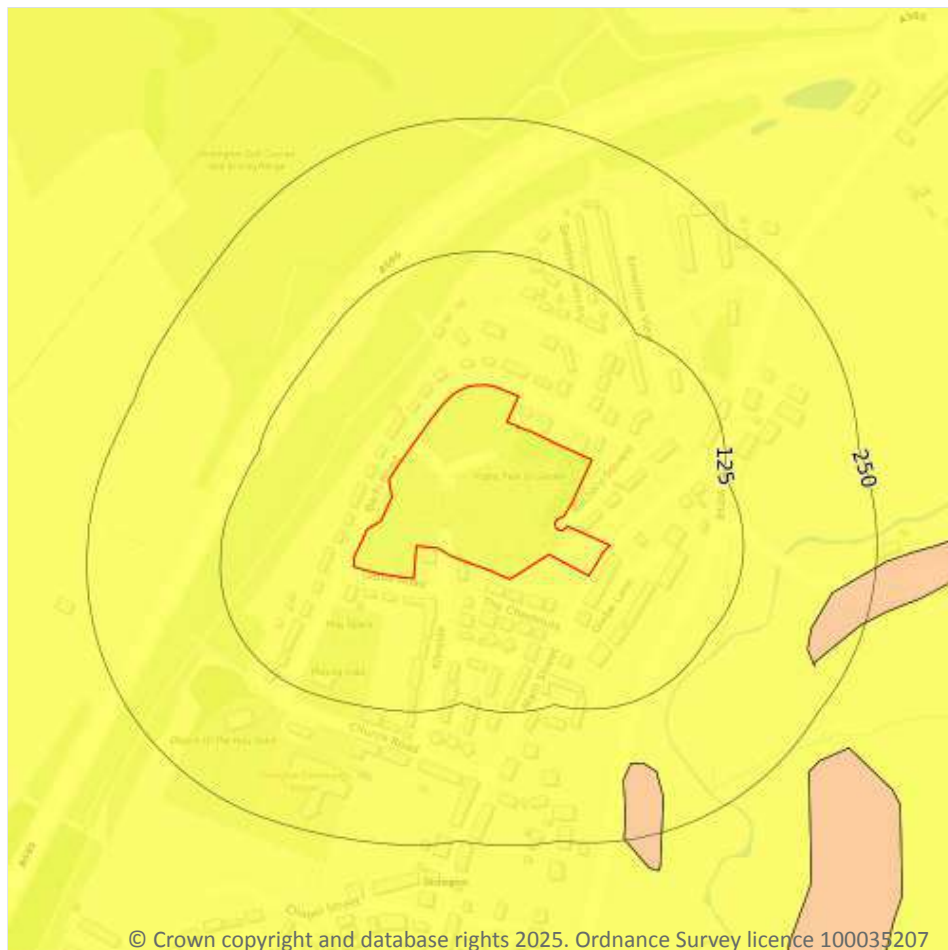
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 101](#) >

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

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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.

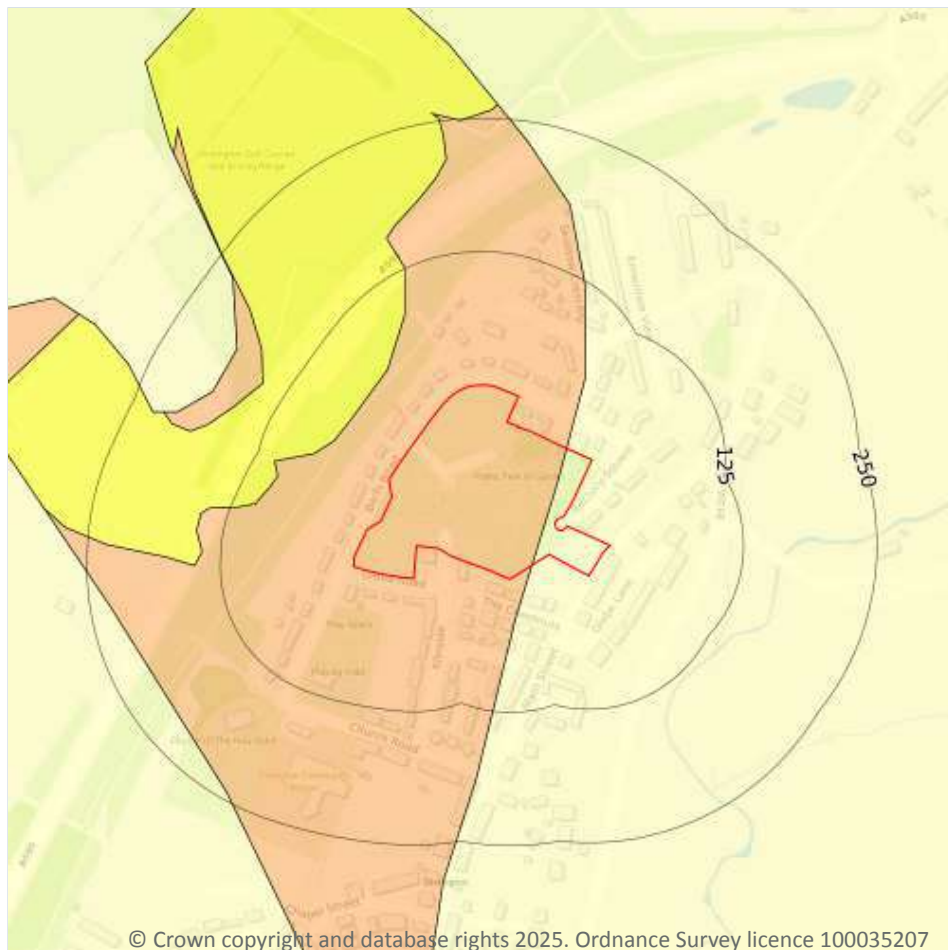
Features are displayed on the Natural ground subsidence - Landslides map on [page 102 >](#)

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



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

17.6 Ground dissolution of soluble rocks

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 103 >](#)

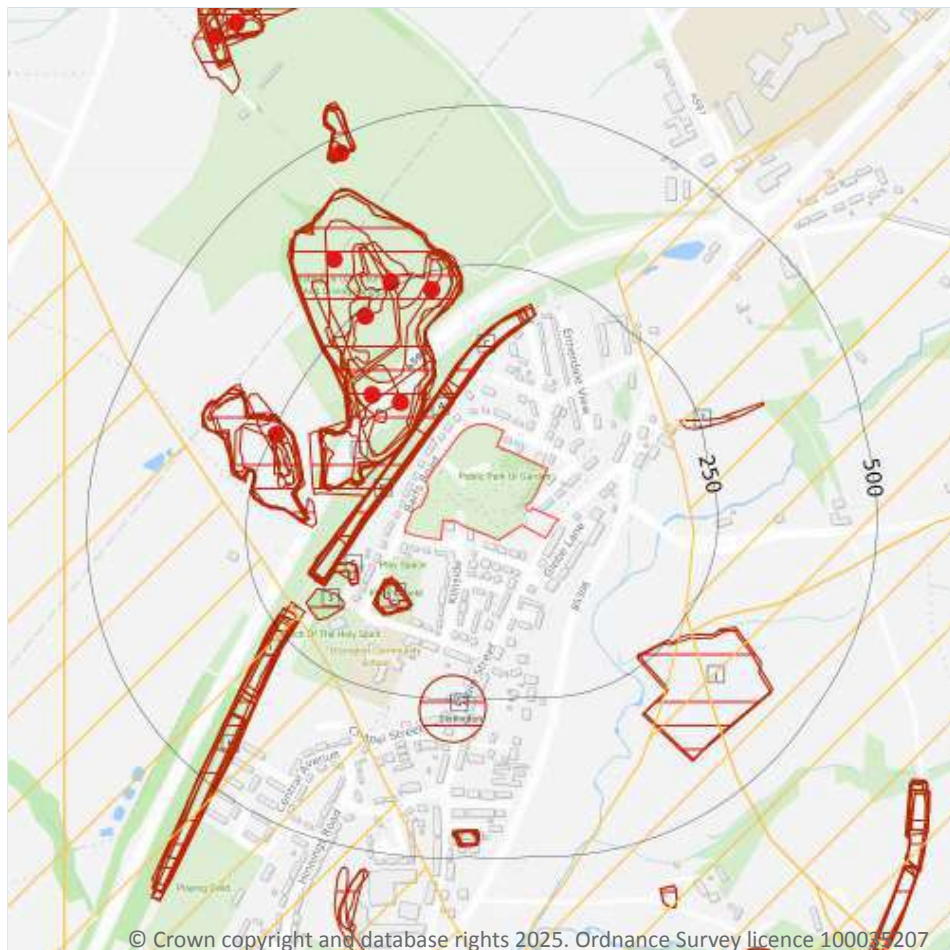
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

Location	Hazard rating	Details
On site	Low	Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances.

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

8

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 105](#) >

ID	Location	Details	Description
D	104m NW	Name: Barf's Quarries Address: Distington, WHITEHAVEN, Cumbria Commodity: Limestone 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.
D	147m NW	Name: Barf's Quarries Address: Distington, WHITEHAVEN, Cumbria Commodity: Limestone 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.
8	223m N	Name: Barf's Quarries Address: Distington, WHITEHAVEN, Cumbria Commodity: Limestone 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.
D	236m NW	Name: Barf's Quarries Address: Distington, WHITEHAVEN, Cumbria Commodity: Limestone 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
G	245m NW	Name: Barf's Quarries Address: Distington, WHITEHAVEN, Cumbria Commodity: Limestone 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.
10	259m NW	Name: Barf's Quarries Address: Distington, WHITEHAVEN, Cumbria Commodity: Limestone 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.
13	338m NW	Name: Barfs Quarry Address: Dean, WORKINGTON, Cumbria Commodity: Silica Rock 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.
M	476m NW	Name: Barfs Quarry Address: Distington, WORKINGTON, Cumbria 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

73

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 105 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
A	37m NW	Cuttings	1898	1:10560
A	37m NW	Cuttings	1923	1:10560
A	37m NW	Cuttings	1923	1:10560
A	37m NW	Cuttings	1923	1:10560
A	37m NW	Cuttings	1923	1:10560
B	40m NW	Cuttings	1991	1:10000
A	40m NW	Cuttings	1967	1:10560
A	41m NW	Cuttings	1938	1:10560
B	41m NW	Cuttings	1947	1:10560
A	43m NW	Cuttings	1951	1:10560
C	54m NW	Cuttings	1947	1:10560
C	54m NW	Cuttings	1898	1:10560
1	59m NW	Unspecified Disused Workings	1991	1:10000
C	60m N	Cuttings	1991	1:10000
D	62m NW	Disused Quarries	1923	1:10560
D	62m NW	Disused Quarries	1923	1:10560
D	62m NW	Disused Quarries	1923	1:10560
D	62m NW	Disused Quarries	1923	1:10560
D	62m NW	Unspecified Disused Quarries	1938	1:10560
D	62m NW	Unspecified Disused Quarries	1951	1:10560
D	62m NW	Water Body	1951	1:10560
D	62m NW	Unspecified Disused Quarries	1967	1:10560
D	62m NW	Unspecified Disused Quarries	1947	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
D	62m NW	Unspecified Disused Quarries	1898	1:10560
D	67m NW	Pond	1967	1:10560
D	73m NW	Water Body	1898	1:10560
E	73m S	Pond	1938	1:10560
E	77m S	Pond	1864	1:10560
E	77m S	Pond	1923	1:10560
E	77m S	Pond	1923	1:10560
E	77m S	Pond	1923	1:10560
E	77m S	Pond	1923	1:10560
E	82m S	Pond	1951	1:10560
E	84m S	Pond	1947	1:10560
E	84m S	Pond	1898	1:10560
F	91m SW	Unspecified Heap	1947	1:10560
F	93m SW	Unspecified Ground Workings	1923	1:10560
F	93m SW	Unspecified Ground Workings	1923	1:10560
F	93m SW	Unspecified Ground Workings	1923	1:10560
F	93m SW	Unspecified Ground Workings	1923	1:10560
F	95m W	Cuttings	1898	1:10560
D	108m NW	Water Body	1864	1:10560
2	109m NW	Ponds	1991	1:10000
G	140m W	Unspecified Disused Quarries	1967	1:10560
3	145m SW	Grave Yard	1864	1:10560
G	152m W	Disused Quarries	1923	1:10560
G	152m W	Disused Quarries	1923	1:10560
G	152m W	Disused Quarries	1923	1:10560
G	152m W	Disused Quarries	1923	1:10560
G	154m W	Unspecified Disused Quarries	1938	1:10560
G	156m W	Unspecified Disused Quarries	1947	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
G	156m W	Unspecified Disused Quarries	1898	1:10560
G	158m W	Unspecified Pit	1951	1:10560
D	166m NW	Unspecified Disused Quarries	1864	1:10560
D	172m NW	Water Body	1864	1:10560
G	188m NW	Unspecified Disused Quarries	1864	1:10560
G	188m W	Pond	1967	1:10560
G	200m NW	Pond	1947	1:10560
H	201m SW	Cuttings	1967	1:10560
G	202m NW	Pond	1951	1:10560
I	213m SW	Cuttings	1938	1:10560
6	214m S	Saw Pit	1864	1:10560
I	215m SW	Cuttings	1947	1:10560
I	215m SW	Cuttings	1898	1:10560
H	220m SW	Cuttings	1923	1:10560
H	220m SW	Cuttings	1923	1:10560
H	220m SW	Cuttings	1923	1:10560
H	220m SW	Cuttings	1923	1:10560
7	221m E	Pond	1864	1:10560
H	230m SW	Cuttings	1951	1:10560
I	233m SW	Cuttings	1991	1:10000
J	234m SE	Sewage Works	1947	1:10560
J	237m SE	Sewage Works	1951	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

8

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 105 >](#)

ID	Location	Name	Commodity	Class	Likelihood
4	199m E	Not available	Iron Ore (Bedded)	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.
5	213m SW	Not available	Iron Ore (Bedded)	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.
9	245m SE	Not available	Iron Ore (Bedded)	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.



ID	Location	Name	Commodity	Class	Likelihood
12	272m SE	Not available	Iron Ore (Bedded)	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.
14	535m W	Not available	Iron Ore (Bedded)	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.
15	690m SE	Not available	Iron Ore (Bedded)	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.
-	842m N	Not available	Iron Ore (Bedded)	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.
-	982m S	Not available	Iron Ore (Bedded)	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



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- Mining cavities
- Reported recent incidents
- Historical incidents

19.1 Natural cavities

Records within 500m

1

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.

Features are displayed on the Ground cavities and sinkholes map on [page 115](#) >

ID	Location	Details
1	140m SE	Type: Swallow Hole x 1 Superficial Geology: None Bedrock Geology: Upper Carboniferous Limestone

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**

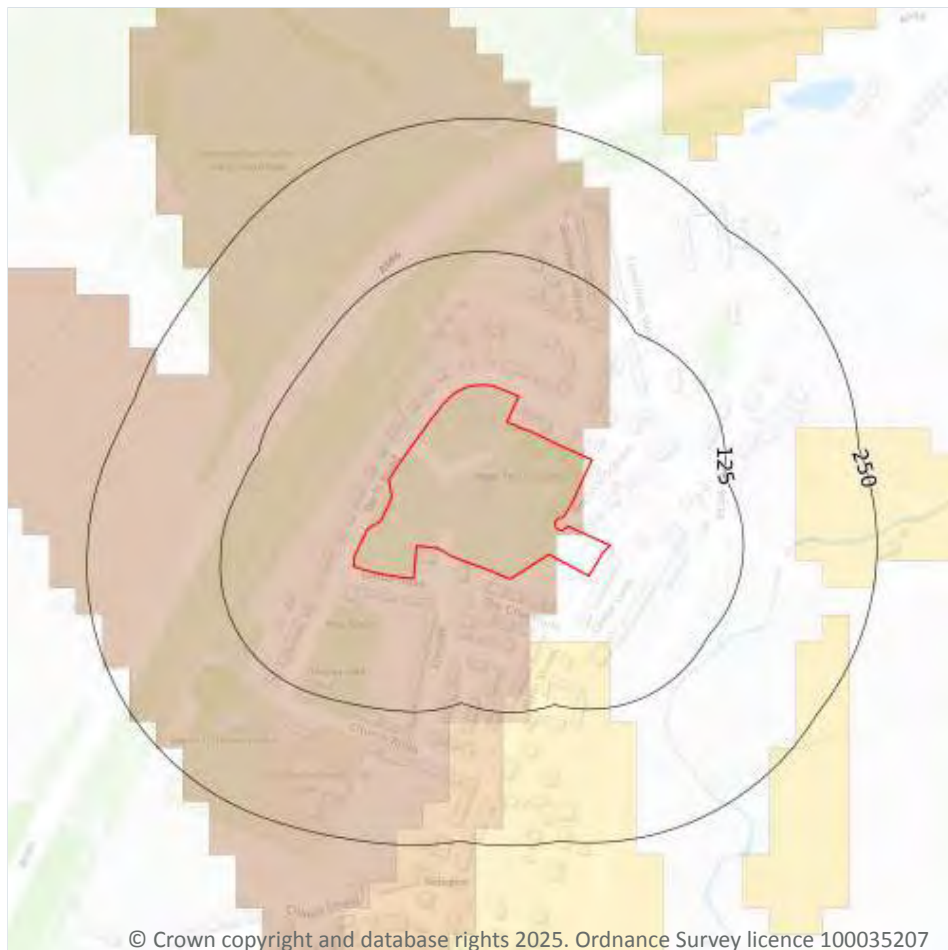
This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a 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

2

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 117](#) >

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 10% and 30%	Full



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

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



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

3

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
35m W	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 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 km²).

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

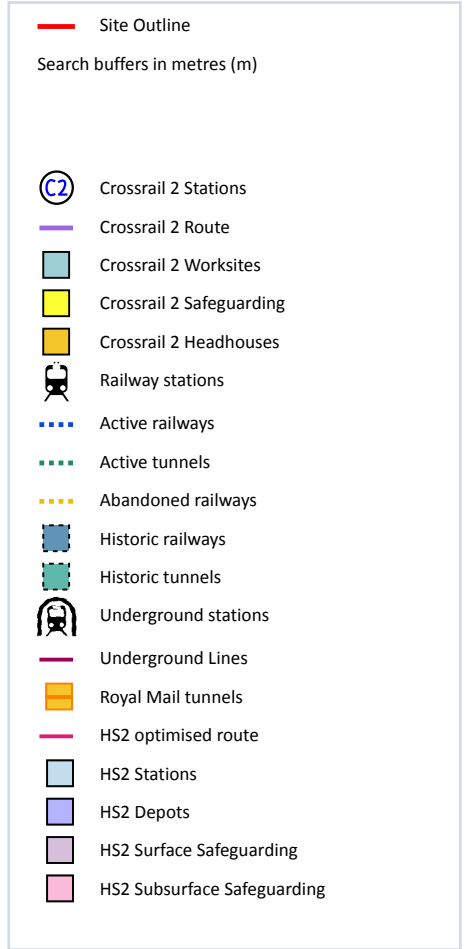
0

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 km².

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

5

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

Features are displayed on the Railway infrastructure and projects map on [page 120 >](#)

Location	Land Use	Year of mapping	Mapping scale
201m NE	Railway Sidings	1951	10560
201m NE	Railway Sidings	1967	10560
211m N	Railway Sidings	1900	2500
212m N	Railway Sidings	1925	2500
215m NE	Mineral Railway Sidings	1967	2500

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

3

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

Features are displayed on the Railway infrastructure and projects map on [page 120](#) >

Location	Description
50m NW	Razed
53m NW	Historical OSM
187m N	Historical OSM

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> ↗.

Terms and conditions

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



unspecified

Order Details

Date: 24/11/2025
Your ref: EMS_1065737_1334935
Our Ref: EMS-1065737_1341839

Site Details

Location: 300654 523812
Area: 2.57 ha
Authority: [Cumberland Council](#) ↗



[Summary of findings](#)

[p. 2 >](#) [Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

[p.14 >](#) [Insight User Guide](#) ↗

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 >	0	10	40	46	-
19 >	1.2 >	Historical tanks >	0	0	0	3	-
20 >	1.3 >	Historical energy features >	0	1	1	1	-
20	1.4	Historical petrol stations	0	0	0	0	-
20 >	1.5 >	Historical garages >	0	1	1	0	-
21	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
22 >	2.1 >	Historical industrial land uses >	0	11	58	67	-
27 >	2.2 >	Historical tanks >	0	0	0	4	-
28 >	2.3 >	Historical energy features >	0	2	2	2	-
28	2.4	Historical petrol stations	0	0	0	0	-
29 >	2.5 >	Historical garages >	0	4	1	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
30	3.1	Active or recent landfill	0	0	0	0	-
30	3.2	Historical landfill (BGS records)	0	0	0	0	-
31	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
31 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	1	0	-
31	3.5	Historical waste sites	0	0	0	0	-
31	3.6	Licensed waste sites	0	0	0	0	-
32 >	3.7 >	Waste exemptions >	0	0	1	25	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
34 >	4.1 >	Recent industrial land uses >	0	1	5	-	-
35	4.2	National Geographic Database (NGD) - Current or recent tanks	0	0	0	-	-
35 >	4.3 >	Current or recent petrol stations >	0	0	1	0	-
35	4.4	Electricity cables	0	0	0	0	-
36	4.5	Gas pipelines	0	0	0	0	-



36	4.6	Sites determined as Contaminated Land	0	0	0	0	-
36	4.7	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
36	4.8	Regulated explosive sites	0	0	0	0	-
36	4.9	Hazardous substance storage/usage	0	0	0	0	-
37	4.10	Historical licensed industrial activities (IPC)	0	0	0	0	-
37	4.11	Licensed industrial activities (Part A(1))	0	0	0	0	-
37 >	4.12 >	<u>Licensed pollutant release (Part A(2)/B) ></u>	0	0	0	1	-
37	4.13	Radioactive Substance Authorisations	0	0	0	0	-
38 >	4.14 >	<u>Licensed Discharges to controlled waters ></u>	0	0	3	0	-
38	4.15	Pollutant release to surface waters (Red List)	0	0	0	0	-
38	4.16	Pollutant release to public sewer	0	0	0	0	-
39	4.17	List 1 Dangerous Substances	0	0	0	0	-
39	4.18	List 2 Dangerous Substances	0	0	0	0	-
39 >	4.19 >	<u>Pollution Incidents (EA/NRW) ></u>	0	16	41	23	-
47	4.20	Pollution inventory substances	0	0	0	0	-
48	4.21	Pollution inventory waste transfers	0	0	0	0	-
48	4.22	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<u>Hydrogeology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
49 >	5.1 >	<u>Superficial aquifer ></u>	Identified (within 500m)				
51 >	5.2 >	<u>Bedrock aquifer ></u>	Identified (within 500m)				
52 >	5.3 >	<u>Groundwater vulnerability ></u>	Identified (within 50m)				
53 >	5.4 >	<u>Groundwater vulnerability- soluble rock risk ></u>	Identified (within 0m)				
53	5.5	Groundwater vulnerability- local information	None (within 0m)				
54 >	5.6 >	<u>Groundwater abstractions ></u>	0	0	0	0	2
55 >	5.7 >	<u>Surface water abstractions ></u>	0	0	0	0	4
56	5.8	Potable abstractions	0	0	0	0	0
57	5.9	Source Protection Zones	0	0	0	0	-
57	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<u>Hydrology ></u>	On site	0-50m	50-250m	250-500m	500-2000m

58 >	6.1 >	Water Network (OS MasterMap) >	0	0	21	-	-
60 >	6.2 >	Surface water features >	0	0	11	-	-
60 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
61 >	6.4 >	WFD Surface water bodies >	0	0	1	-	-
61 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
62	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
63 >	7.2 >	Historical Flood Events >	0	0	1	-	-
63	7.3	Flood Defences	0	0	0	-	-
63	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
63	7.5	Flood Storage Areas	0	0	0	-	-
64	7.6	Flood Zone 2	None (within 50m)				
64	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
65 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
67 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
68	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
69	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
69	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
69	10.4	Special Protection Areas (SPA)	0	0	0	0	0
69	10.5	National Nature Reserves (NNR)	0	0	0	0	0
70	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
70 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	2
70	10.8	Biosphere Reserves	0	0	0	0	0
70	10.9	Forest Parks	0	0	0	0	0
71	10.10	Marine Conservation Zones	0	0	0	0	0
71	10.11	Green Belt	0	0	0	0	0



71	10.12	Proposed Ramsar sites	0	0	0	0	0
71	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
71	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
72	10.15	Nitrate Sensitive Areas	0	0	0	0	0
72	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
73	10.17	SSSI Impact Risk Zones	0	-	-	-	-
73	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
74	11.1	World Heritage Sites	0	0	0	-	-
75	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
75	11.3	National Parks	0	0	0	-	-
75 >	11.4 >	Listed Buildings >	0	0	2	-	-
76	11.5	Conservation Areas	0	0	0	-	-
76	11.6	Scheduled Ancient Monuments	0	0	0	-	-
76	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
77 >	12.1 >	Agricultural Land Classification >	Grade 4 (within 250m)				
78	12.2	Open Access Land	0	0	0	-	-
78	12.3	Tree Felling Licences	0	0	0	-	-
78	12.4	Environmental Stewardship Schemes	0	0	0	-	-
79	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
80 >	13.1 >	Priority Habitat Inventory >	0	0	1	-	-
81	13.2	Habitat Networks	0	0	0	-	-
81 >	13.3 >	Open Mosaic Habitat >	0	0	1	-	-
81	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
82 >	14.1 >	10k Availability >	Identified (within 500m)				
83	14.2	Artificial and made ground (10k)	0	0	0	0	-

84	14.3	Superficial geology (10k)	0	0	0	0	-
84	14.4	Landslip (10k)	0	0	0	0	-
85	14.5	Bedrock geology (10k)	0	0	0	0	-
85	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
86 >	15.1 >	50k Availability >	Identified (within 500m)				
87 >	15.2 >	Artificial and made ground (50k) >	0	0	1	1	-
88	15.3	Artificial ground permeability (50k)	0	0	-	-	-
89 >	15.4 >	Superficial geology (50k) >	1	0	5	2	-
90 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
90 >	15.6 >	Landslip (50k) >	0	0	0	1	-
91	15.7	Landslip permeability (50k)	None (within 50m)				
92 >	15.8 >	Bedrock geology (50k) >	2	0	4	2	-
93 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
93 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	5	6	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
95 >	16.1 >	BGS Boreholes >	0	0	25	-	-
Page	Section	Natural ground subsidence >					
98 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
99 >	17.2 >	Running sands >	Very low (within 50m)				
100 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
101 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
102 >	17.5 >	Landslides >	Very low (within 50m)				
103 >	17.6 >	Ground dissolution of soluble rocks >	Low (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
105 >	18.1 >	BritPits >	0	0	5	3	-
108 >	18.2 >	Surface ground workings >	0	10	63	-	-
110	18.3	Underground workings	0	0	0	0	0
111	18.4	Underground mining extents	0	0	0	0	-



111	18.5	Historical Mineral Planning Areas	0	0	0	0	-
111 >	18.6 >	Non-coal mining >	0	0	3	1	4
112	18.7	JPB mining areas	None (within 0m)				
112	18.8	The Coal Authority non-coal mining	0	0	0	0	-
113	18.9	Researched mining	0	0	0	0	-
113	18.10	Mining record office plans	0	0	0	0	-
113	18.11	BGS mine plans	0	0	0	0	-
113 >	18.12 >	Coal mining >	Identified (within 0m)				
114	18.13	Brine areas	None (within 0m)				
114	18.14	Gypsum areas	None (within 0m)				
114	18.15	Tin mining	None (within 0m)				
114	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes >	On site	0-50m	50-250m	250-500m	500-2000m
115 >	19.1 >	Natural cavities >	0	0	1	0	-
116	19.2	Mining cavities	0	0	0	0	0
116	19.3	Reported recent incidents	0	0	0	0	-
116	19.4	Historical incidents	0	0	0	0	-
Page	Section	Radon >					
117 >	20.1 >	Radon >	Between 10% and 30% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
119 >	21.1 >	BGS Estimated Background Soil Chemistry >	2	1	-	-	-
119	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
119	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
120	22.1	Underground railways (London)	0	0	0	-	-
120	22.2	Underground railways (Non-London)	0	0	0	-	-
121	22.3	Railway tunnels	0	0	0	-	-
121 >	22.4 >	Historical railway and tunnel features >	0	0	5	-	-
121	22.5	Royal Mail tunnels	0	0	0	-	-



122 >	22.6 >	Historical railways >	0	1	2	-	-
122	22.7	Railways	0	0	0	-	-
122	22.8	Crossrail 2	0	0	0	0	-
122	22.9	HS2	0	0	0	0	-

Recent aerial photograph



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Capture Date: 17/07/2021

Site Area: 2.57ha



Recent site history - 2019 aerial photograph



Capture Date: 24/08/2019

Site Area: 2.57ha



Recent site history - 2008 aerial photograph



Capture Date: 05/10/2008

Site Area: 2.57ha



Recent site history - 2000 aerial photograph



Capture Date: 16/06/2000

Site Area: 2.57ha



Recent site history - 1999 aerial photograph



Capture Date: 26/07/1999

Site Area: 2.57ha



OS MasterMap site plan



Site Area: 2.57ha



Contact us with any questions at:

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Date: 24 November 2025

1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

96

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	9m SE	Smithy	1898	595372



ID	Location	Land use	Dates present	Group ID
B	37m NW	Cuttings	1898	614970
B	37m NW	Cuttings	1923	604963
B	37m NW	Cuttings	1923	612427
B	37m NW	Cuttings	1923	631462
B	37m NW	Cuttings	1923	639652
C	40m NW	Cuttings	1991	625464
B	40m NW	Cuttings	1951 - 1967	625056
B	41m NW	Cuttings	1938	652082
C	41m NW	Cuttings	1947	644712
D	54m NW	Cuttings	1947	629992
D	54m NW	Cuttings	1898	642862
1	59m NW	Unspecified Disused Workings	1991	598772
D	60m N	Cuttings	1991	609435
E	62m NW	Disused Quarries	1923	617621
E	62m NW	Unspecified Disused Quarries	1938	626090
E	62m NW	Unspecified Disused Quarries	1951 - 1967	624606
E	62m NW	Unspecified Disused Quarries	1947	614888
E	62m NW	Unspecified Disused Quarries	1898	635037
F	91m SW	Unspecified Heap	1947	584974
F	93m SW	Unspecified Ground Workings	1923	642119
F	95m W	Cuttings	1898	651710
F	100m SW	Lime Kilns	1864	580057
G	140m W	Unspecified Disused Quarries	1967	647896
3	145m SW	Grave Yard	1864	576164
G	152m W	Disused Quarries	1923	645593
H	152m E	Unspecified Mill	1898	602301
H	153m E	Mill	1923	624661
H	153m E	Mill	1923	603304



ID	Location	Land use	Dates present	Group ID
G	154m W	Unspecified Disused Quarries	1938	613784
H	154m E	Unspecified Mill	1938	648128
G	156m W	Unspecified Disused Quarries	1947	612178
G	156m W	Unspecified Disused Quarries	1898	637484
H	157m E	Corn Mill	1864	568137
G	158m W	Unspecified Pit	1951	593730
E	166m NW	Unspecified Disused Quarries	1864	623061
H	170m NE	Police Station	1967 - 1991	622571
G	188m NW	Unspecified Disused Quarries	1864	602626
5	201m NE	Railway Sidings	1951 - 1967	610563
I	201m SW	Cuttings	1967	628740
J	213m SW	Cuttings	1938	610062
6	214m S	Saw Pit	1864	581920
J	215m SW	Cuttings	1898	628104
J	215m SW	Cuttings	1947	635803
I	220m SW	Cuttings	1923	623602
7	227m NE	Goods Station	1967	578091
I	230m SW	Cuttings	1951	631696
J	233m SW	Cuttings	1991	618313
8	234m SE	Sewage Works	1947 - 1951	639634
9	240m NW	Old Lime Kilns	1864	576054
K	262m W	Unspecified Ground Workings	1951	596962
L	279m N	Old Lime Kilns	1864	576052
L	283m N	Old Lime Kilns	1864	576053
M	304m NE	Railway Sidings	1938	626132
N	308m NE	Railway Sidings	1951 - 1967	632809
N	312m NE	Railway Sidings	1898	602508
N	312m NE	Railway Sidings	1947	652225



ID	Location	Land use	Dates present	Group ID
N	318m NE	Railway Sidings	1923	605307
N	318m NE	Railway Sidings	1923	615772
N	318m NE	Railway Sidings	1923	620014
N	318m NE	Railway Sidings	1923	642735
K	324m NW	Old Lime Kiln	1864	592362
N	328m NE	Railway Station	1923	643748
N	329m NE	Railway Station	1951	652262
N	331m NE	Railway Station	1898	615682
N	331m NE	Railway Station	1947	649805
N	333m NE	Railway Station	1938	605887
K	334m W	Old Lime Kiln	1864	592361
K	344m W	Old Lime Kiln	1864	592360
O	359m SW	Cuttings	1991	648328
O	386m SW	Cuttings	1938 - 1947	647661
O	388m SW	Cuttings	1898	622812
M	411m E	Railway Sidings	1898	617080
M	414m E	Railway Sidings	1923	620011
M	422m E	Railway Building	1898	599302
M	423m E	Tank	1923	627664
M	423m E	Unspecified Tank	1938	583569
M	438m E	Railway Building	1898	599303
13	446m NE	Unspecified Works	1967	580718
P	457m S	Refuse Heap	1938	645914
P	458m S	Refuse Heap	1947	651854
P	458m S	Refuse Heap	1951	643251
P	460m S	Gravel Pit	1923	631184
Q	465m NW	Unspecified Old Quarry	1898	581151
Q	465m NW	Unspecified Pit	1947	602458



ID	Location	Land use	Dates present	Group ID
Q	466m NW	Unspecified Pit	1923	612457
Q	466m NW	Unspecified Pit	1951 - 1991	623567
Q	467m NW	Unspecified Pit	1938	621529
14	482m NE	Ambulance Depot	1991	579068
15	483m E	Railway Building	1938	599467
R	485m E	Railway Sidings	1898	631111
P	486m S	Smithy	1898	595361
R	491m E	Railway Sidings	1923	614145
R	491m E	Railway Sidings	1923	632515
R	491m E	Railway Sidings	1923	641111
R	491m E	Railway Sidings	1923	643142

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

3

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

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
11	363m SW	Tank or Trough	1862	80637
M	421m E	Unspecified Tank	1925	75896
12	443m E	Unspecified Tank	1961	76225

This data is sourced from Ordnance Survey / Groundsure.



1.3 Historical energy features

Records within 500m

3

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

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
B	40m NW	Electricity Substation	1985 - 1988	46438
2	72m SE	Electricity Substation	1985 - 1988	46007
10	319m S	Electricity Substation	1985 - 1988	46972

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

2

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

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
A	1m SW	Garage	1961 - 1988	15597



ID	Location	Land use	Dates present	Group ID
4	176m NE	Garage	1998	15189

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

0

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

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



2 Past land use - un-grouped



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

2.1 Historical industrial land uses

Records within 500m

136

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 22](#) >

ID	Location	Land Use	Date	Group ID
A	9m SE	Smithy	1898	595372
B	37m NW	Cuttings	1898	614970
B	37m NW	Cuttings	1923	639652

ID	Location	Land Use	Date	Group ID
B	37m NW	Cuttings	1923	631462
B	37m NW	Cuttings	1923	612427
B	37m NW	Cuttings	1923	604963
C	40m NW	Cuttings	1991	625464
B	40m NW	Cuttings	1967	625056
B	41m NW	Cuttings	1938	652082
C	41m NW	Cuttings	1947	644712
B	43m NW	Cuttings	1951	625056
D	54m NW	Cuttings	1947	629992
D	54m NW	Cuttings	1898	642862
1	59m NW	Unspecified Disused Workings	1991	598772
D	60m N	Cuttings	1991	609435
E	62m NW	Disused Quarries	1923	617621
E	62m NW	Disused Quarries	1923	617621
E	62m NW	Disused Quarries	1923	617621
E	62m NW	Disused Quarries	1923	617621
E	62m NW	Unspecified Disused Quarries	1938	626090
E	62m NW	Unspecified Disused Quarries	1951	624606
E	62m NW	Unspecified Disused Quarries	1967	624606
E	62m NW	Unspecified Disused Quarries	1947	614888
E	62m NW	Unspecified Disused Quarries	1898	635037
G	91m SW	Unspecified Heap	1947	584974
G	93m SW	Unspecified Ground Workings	1923	642119
G	93m SW	Unspecified Ground Workings	1923	642119
G	93m SW	Unspecified Ground Workings	1923	642119
G	93m SW	Unspecified Ground Workings	1923	642119
G	95m W	Cuttings	1898	651710
G	100m SW	Lime Kilns	1864	580057

ID	Location	Land Use	Date	Group ID
H	140m W	Unspecified Disused Quarries	1967	647896
2	145m SW	Grave Yard	1864	576164
H	152m W	Disused Quarries	1923	645593
H	152m W	Disused Quarries	1923	645593
H	152m W	Disused Quarries	1923	645593
H	152m W	Disused Quarries	1923	645593
I	152m E	Unspecified Mill	1898	602301
I	153m E	Mill	1923	624661
I	153m E	Mill	1923	624661
I	153m E	Mill	1923	624661
I	153m E	Mill	1923	603304
H	154m W	Unspecified Disused Quarries	1938	613784
I	154m E	Unspecified Mill	1938	648128
H	156m W	Unspecified Disused Quarries	1947	612178
H	156m W	Unspecified Disused Quarries	1898	637484
I	157m E	Corn Mill	1864	568137
H	158m W	Unspecified Pit	1951	593730
E	166m NW	Unspecified Disused Quarries	1864	623061
I	170m NE	Police Station	1967	622571
I	170m NE	Police Station	1991	622571
H	188m NW	Unspecified Disused Quarries	1864	602626
J	201m NE	Railway Sidings	1951	610563
J	201m NE	Railway Sidings	1967	610563
K	201m SW	Cuttings	1967	628740
L	213m SW	Cuttings	1938	610062
4	214m S	Saw Pit	1864	581920
L	215m SW	Cuttings	1947	635803
L	215m SW	Cuttings	1898	628104

ID	Location	Land Use	Date	Group ID
K	220m SW	Cuttings	1923	623602
K	220m SW	Cuttings	1923	623602
K	220m SW	Cuttings	1923	623602
K	220m SW	Cuttings	1923	623602
5	227m NE	Goods Station	1967	578091
K	230m SW	Cuttings	1951	631696
L	233m SW	Cuttings	1991	618313
M	234m SE	Sewage Works	1947	639634
M	237m SE	Sewage Works	1951	639634
6	240m NW	Old Lime Kilns	1864	576054
N	262m W	Unspecified Ground Workings	1951	596962
O	279m N	Old Lime Kilns	1864	576052
O	283m N	Old Lime Kilns	1864	576053
P	304m NE	Railway Sidings	1938	626132
Q	308m NE	Railway Sidings	1951	632809
Q	308m NE	Railway Sidings	1967	632809
Q	312m NE	Railway Sidings	1947	652225
Q	312m NE	Railway Sidings	1898	602508
Q	318m NE	Railway Sidings	1923	620014
Q	318m NE	Railway Sidings	1923	642735
Q	318m NE	Railway Sidings	1923	605307
Q	318m NE	Railway Sidings	1923	615772
N	324m NW	Old Lime Kiln	1864	592362
Q	328m NE	Railway Station	1923	643748
Q	328m NE	Railway Station	1923	643748
Q	328m NE	Railway Station	1923	643748
Q	328m NE	Railway Station	1923	643748
Q	329m NE	Railway Station	1951	652262



ID	Location	Land Use	Date	Group ID
Q	331m NE	Railway Station	1947	649805
Q	331m NE	Railway Station	1898	615682
Q	333m NE	Railway Station	1938	605887
N	334m W	Old Lime Kiln	1864	592361
N	344m W	Old Lime Kiln	1864	592360
S	359m SW	Cuttings	1991	648328
S	386m SW	Cuttings	1938	647661
S	388m SW	Cuttings	1947	647661
S	388m SW	Cuttings	1898	622812
P	411m E	Railway Sidings	1898	617080
P	414m E	Railway Sidings	1923	620011
P	414m E	Railway Sidings	1923	620011
P	414m E	Railway Sidings	1923	620011
P	414m E	Railway Sidings	1923	620011
P	422m E	Railway Building	1898	599302
P	423m E	Tank	1923	627664
P	423m E	Tank	1923	627664
P	423m E	Tank	1923	627664
P	423m E	Tank	1923	627664
P	423m E	Unspecified Tank	1938	583569
P	438m E	Railway Building	1898	599303
8	446m NE	Unspecified Works	1967	580718
U	457m S	Refuse Heap	1938	645914
U	457m S	Refuse Heap	1938	645914
U	458m S	Refuse Heap	1947	651854
U	458m S	Refuse Heap	1951	643251
U	460m S	Gravel Pit	1923	631184
U	460m S	Gravel Pit	1923	631184

ID	Location	Land Use	Date	Group ID
U	460m S	Gravel Pit	1923	631184
U	460m S	Gravel Pit	1923	631184
V	465m NW	Unspecified Old Quarry	1898	581151
V	465m NW	Unspecified Pit	1947	602458
V	466m NW	Unspecified Pit	1923	612457
V	466m NW	Unspecified Pit	1923	612457
V	466m NW	Unspecified Pit	1923	612457
V	466m NW	Unspecified Pit	1923	612457
V	466m NW	Unspecified Pit	1951	623567
V	466m NW	Unspecified Pit	1967	623567
V	466m NW	Unspecified Pit	1991	623567
V	467m NW	Unspecified Pit	1938	621529
V	467m NW	Unspecified Pit	1938	621529
9	482m NE	Ambulance Depot	1991	579068
10	483m E	Railway Building	1938	599467
W	485m E	Railway Sidings	1898	631111
U	486m S	Smithy	1898	595361
W	491m E	Railway Sidings	1923	614145
W	491m E	Railway Sidings	1923	641111
W	491m E	Railway Sidings	1923	643142
W	491m E	Railway Sidings	1923	632515

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

4

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. 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 22 >](#)



ID	Location	Land Use	Date	Group ID
T	363m SW	Tank or Trough	1862	80637
T	363m SW	Tank or Trough	1862	80637
P	421m E	Unspecified Tank	1925	75896
7	443m E	Unspecified Tank	1961	76225

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	6

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

Features are displayed on the Past land use - un-grouped map on [page 22 >](#)

ID	Location	Land Use	Date	Group ID
B	40m NW	Electricity Substation	1985	46438
B	40m NW	Electricity Substation	1988	46438
F	72m SE	Electricity Substation	1988	46007
F	73m SE	Electricity Substation	1985	46007
R	319m S	Electricity Substation	1988	46972
R	320m S	Electricity Substation	1985	46972

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

5

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

Features are displayed on the Past land use - un-grouped map on [page 22 >](#)

ID	Location	Land Use	Date	Group ID
A	1m SW	Garage	1988	15597
A	1m SW	Garage	1961	15597
A	2m SE	Garage	1982	15597
A	2m SE	Garage	1985	15597
3	176m NE	Garage	1998	15189

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 30](#) >

ID	Location	Details		
1	139m W	Site Address: Barfs Quarry, Distington, Workington, Cumbria Licence Holder Address: The Courts, Carlisle, Cumbria	Waste Licence: Yes Site Reference: R44, E160.129 Waste Type: Inert, Industrial, Commercial, Household, Special Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 21/02/1979 Licence Surrender: -	Operator: - Licence Holder: Cumbria County Council First Recorded 23/08/1982 Last Recorded: 14/12/1985

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

26

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 30](#) >

ID	Location	Site	Reference	Category	Sub-Category	Description
2	163m S	Sherwood House, Barnhill, Disington, Workington, Ca14 5sy	WEX272556	Using waste exemption	Not on a farm	Use of waste in construction
A	346m E	Charolais Workington Cumbria Ca14 4qy	EPR/FE5885PE /A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
A	346m E	Charolais Workington Cumbria Ca14 4qy	EPR/FE5885PE /A001	Using waste exemption	Agricultural waste only	Use of waste for a specified purpose
A	346m E	Charolais Workington Cumbria Ca14 4qy	EPR/FE5885PE /A001	Disposing of waste exemption	Agricultural waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	346m E	Charolais Workington Cumbria Ca14 4qy	EPR/FE5885PE /A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
B	386m S	-	WEX426398	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	386m S	-	WEX294381	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	392m S	Distington Surgery Hinnings Road Workington Cumbria Ca14 5ur	EPR/RF0404PX /A001	Treating waste exemption	Non-agricultural waste only	Sorting and de-naturing of controlled drugs for disposal
B	392m S	Hinnings Road, Distington, Workington, Ca14 5ur	WEX124983	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	392m S	-	WEX265741	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
C	392m N	One Field At Distington Ca14 5tu	EPR/GE5984KF /A001	Using waste exemption	Agricultural waste only	Use of waste for a specified purpose
C	392m N	One Field At Distington Ca14 5tu	EPR/GE5984KF /A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters



ID	Location	Site	Reference	Category	Sub-Category	Description
C	392m N	One Field At Distinguon Ca14 5tu	EPR/GE5984KF /A001	Treating waste exemption	Agricultural waste only	Aerobic composting and associated prior treatment
C	392m N	One Field At Distinguon Ca14 5tu	EPR/GE5984KF /A001	Using waste exemption	Agricultural waste only	Use of waste in construction
C	392m N	One Field At Distinguon Ca14 5tu	EPR/GE5984KF /A001	Using waste exemption	Agricultural waste only	Burning of waste as a fuel in a small appliance
C	392m N	One Field At Distinguon Ca14 5tu	EPR/GE5984KF /A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
C	392m N	One Field At Distinguon Ca14 5tu	EPR/GE5984KF /A001	Treating waste exemption	Agricultural waste only	Screening and blending of waste
C	392m N	One Field At Distinguon Ca14 5tu	EPR/GE5984KF /A001	Using waste exemption	Agricultural waste only	Spreading waste on agricultural land to confer benefit
C	403m N	-	WEX053830	Disposing of waste exemption	On a farm	Burning waste in the open
C	403m N	-	WEX053830	Treating waste exemption	On a farm	Screening and blending of waste
C	403m N	-	WEX053830	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	403m N	-	WEX053830	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
C	403m N	-	WEX053830	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
C	403m N	-	WEX053830	Using waste exemption	On a farm	Use of waste in construction
C	403m N	-	WEX053830	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
C	403m N	-	WEX053830	Using waste exemption	On a farm	Use of waste for a specified purpose

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- △ Current or recent petrol stations
- ◆ Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

6

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 34](#) >

ID	Location	Company	Address	Activity	Category
B	20m NW	Electricity Sub Station	Cumbria, CA14	Electrical Features	Infrastructure and Facilities
C	69m SE	Electricity Sub Station	Cumbria, CA14	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
6	94m SW	R A B Rallyesport	5, Barfs Road, Distington, Cumbria, CA14 5TG	Motorsport Services	Sport and Entertainment Support Services
F	142m NE	E B Lamb & Son	Town Head, Main Street, Distington, Workington, Cumbria, CA14 5SP	Fuel Distributors and Suppliers	Household, Office, Leisure and Garden
K	212m NE	G D A Body Repairs	Units 1-2 Barfs Road Depot, Barfs Road, Distington, Cumbria, CA14 5TG	Vehicle Repair, Testing and Servicing	Repair and Servicing
K	232m NE	Crones Motors	Barfs Road, Distington, Cumbria, CA14 5TG	Vehicle Repair, Testing and Servicing	Repair and Servicing

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	1

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 34 >](#)

ID	Location	Company	Address	LPG	Status
8	135m SE	OBSOLETE	Main Street, Distington, Workington, Cumbria, CA14 5SS	Not Applicable	Obsolete

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**1**

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

Features are displayed on the Current industrial land use map on [page 34 >](#)

ID	Location	Address	Details	
18	487m NE	EuroGarages, Lillyhall, Workington, CA14 4PJ	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.13 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 34](#) >

ID	Location	Address	Details	
H	159m E	MILL COTTAGES CSO, DISTINGTON, WORKINGTON, CUMBRIA, CA14 5SR	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01COP0024 Permit Version: 3 Receiving Water: DISTINGTON BECK	Status: VARIED UNDER EPR 2010 Issue date: 05/02/2016 Effective Date: 05/02/2016 Revocation Date: -
H	162m E	MILL COTTAGES CSO, DISTINGTON, WORKINGTON, CUMBRIA, CA14 5SR	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01COP0024 Permit Version: 2 Receiving Water: DISTINGTON BECK	Status: VARIED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 04/02/2016
H	162m E	MILL COTTAGES CSO, DISTINGTON, WORKINGTON, CUMBRIA, CA14 5SR	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01COP0024 Permit Version: 1 Receiving Water: DISTINGTON BECK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: 02/09/2010

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

80

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 34 >](#)

ID	Location	Details	
A	9m SE	Incident Date: 09/05/2001 Incident Identification: 4994 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
A	16m NE	Incident Date: 07/05/2001 Incident Identification: 4659 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Effects on Humans	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
1	20m NW	Incident Date: 06/05/2001 Incident Identification: 4652 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
B	23m N	Incident Date: 04/05/2001 Incident Identification: 4469 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)

ID	Location	Details	
2	24m S	Incident Date: 04/05/2001 Incident Identification: 4398 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
A	26m NE	Incident Date: 10/05/2001 Incident Identification: 5057 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
3	42m SE	Incident Date: 15/12/2001 Incident Identification: 48304 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	43m S	Incident Date: 09/05/2001 Incident Identification: 4943 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
C	43m S	Incident Date: 06/05/2001 Incident Identification: 4583 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
C	43m S	Incident Date: 21/04/2001 Incident Identification: 2916 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
C	43m S	Incident Date: 22/04/2001 Incident Identification: 3039 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
C	43m S	Incident Date: 23/04/2001 Incident Identification: 3056 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
C	43m S	Incident Date: 08/05/2001 Incident Identification: 4897 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
C	43m S	Incident Date: 23/05/2001 Incident Identification: 6516 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)



ID	Location	Details	
C	43m S	Incident Date: 02/10/2002 Incident Identification: 112202 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	43m S	Incident Date: 06/06/2002 Incident Identification: 83128 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
4	81m NE	Incident Date: 06/05/2001 Incident Identification: 4648 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
D	82m N	Incident Date: 04/05/2001 Incident Identification: 4375 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
D	82m N	Incident Date: 29/04/2001 Incident Identification: 3766 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
D	87m N	Incident Date: 21/04/2001 Incident Identification: 2918 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
D	87m NE	Incident Date: 21/04/2001 Incident Identification: 2939 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
D	88m NE	Incident Date: 10/05/2001 Incident Identification: 5130 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
D	88m NE	Incident Date: 24/04/2001 Incident Identification: 3329 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
D	88m NE	Incident Date: 03/05/2001 Incident Identification: 4341 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)



ID	Location	Details	
5	91m NE	Incident Date: 07/05/2001 Incident Identification: 4658 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Effects on Humans	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
D	92m N	Incident Date: 10/05/2001 Incident Identification: 5061 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
E	102m S	Incident Date: 01/03/2002 Incident Identification: 61243 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Sulphide Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
E	102m S	Incident Date: 01/03/2002 Incident Identification: 61243 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Sulphide Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
E	103m SE	Incident Date: 27/06/2001 Incident Identification: 11759 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
E	111m S	Incident Date: 09/05/2001 Incident Identification: 4960 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
7	125m E	Incident Date: 24/09/2002 Incident Identification: 110022 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
F	135m NE	Incident Date: 06/05/2001 Incident Identification: 4647 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
G	142m S	Incident Date: 25/04/2001 Incident Identification: 3347 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
G	142m S	Incident Date: 01/05/2001 Incident Identification: 3924 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)



ID	Location	Details	
9	149m S	Incident Date: 20/03/2001 Incident Identification: 576 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
F	162m NE	Incident Date: 06/12/2001 Incident Identification: 46757 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
I	165m S	Incident Date: 21/09/2002 Incident Identification: 109463 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
I	180m S	Incident Date: 09/05/2001 Incident Identification: 4957 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
J	188m E	Incident Date: 22/08/2002 Incident Identification: 102329 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
J	195m E	Incident Date: 13/09/2002 Incident Identification: 107546 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
I	196m S	Incident Date: 05/05/2001 Incident Identification: 4521 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
J	227m E	Incident Date: 06/06/2002 Incident Identification: 83349 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	239m NE	Incident Date: 11/12/2001 Incident Identification: 47624 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
M	246m S	Incident Date: 12/06/2001 Incident Identification: 8824 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)



ID	Location	Details	
M	246m S	Incident Date: 09/05/2001 Incident Identification: 4963 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
M	246m S	Incident Date: 05/07/2001 Incident Identification: 13837 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
M	246m S	Incident Date: 23/04/2001 Incident Identification: 3139 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
M	246m S	Incident Date: 24/04/2001 Incident Identification: 3218 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
M	246m S	Incident Date: 24/04/2001 Incident Identification: 3306 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
M	246m S	Incident Date: 05/05/2001 Incident Identification: 4498 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
M	246m S	Incident Date: 06/05/2001 Incident Identification: 4646 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
M	246m S	Incident Date: 06/05/2001 Incident Identification: 4653 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
M	246m S	Incident Date: 07/05/2001 Incident Identification: 4656 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Effects on Humans	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
M	246m S	Incident Date: 07/05/2001 Incident Identification: 4657 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Effects on Humans	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)



ID	Location	Details	
M	246m S	Incident Date: 08/05/2001 Incident Identification: 4741 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
M	246m S	Incident Date: 03/05/2001 Incident Identification: 4225 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
L	248m NE	Incident Date: 23/08/2001 Incident Identification: 26164 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
10	258m S	Incident Date: 30/10/2002 Incident Identification: 117576 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
J	265m E	Incident Date: 21/04/2003 Incident Identification: 152680 Pollutant: Sewage Materials:Oils and Fuel Pollutant Description: Storm Sewage:Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
J	265m E	Incident Date: 21/04/2003 Incident Identification: 152680 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
J	265m E	Incident Date: 21/04/2003 Incident Identification: 152680 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
N	274m NE	Incident Date: 26/09/2001 Incident Identification: 32983 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
11	276m N	Incident Date: 10/12/2002 Incident Identification: 125395 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 3 (Minor) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
12	278m E	Incident Date: 19/12/2002 Incident Identification: 126723 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)



ID	Location	Details	
N	302m NE	Incident Date: 16/09/2002 Incident Identification: 107985 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
13	362m S	Incident Date: 06/05/2001 Incident Identification: 4614 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Effects on Humans	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
O	402m NE	Incident Date: 19/09/2002 Incident Identification: 108880 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
14	402m S	Incident Date: 09/05/2001 Incident Identification: 4949 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
O	425m NE	Incident Date: 24/02/2002 Incident Identification: 60265 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
O	425m NE	Incident Date: 23/04/2001 Incident Identification: 3148 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
15	427m S	Incident Date: 11/05/2001 Incident Identification: 5208 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
16	451m SW	Incident Date: 04/05/2001 Incident Identification: 4476 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
P	457m S	Incident Date: 08/05/2001 Incident Identification: 4886 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
O	465m NE	Incident Date: 09/05/2001 Incident Identification: 4962 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)



ID	Location	Details	
O	465m NE	Incident Date: 21/04/2001 Incident Identification: 2967 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
P	468m S	Incident Date: 09/05/2001 Incident Identification: 4947 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
P	468m S	Incident Date: 09/05/2001 Incident Identification: 4907 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
17	470m S	Incident Date: 10/07/2001 Incident Identification: 15264 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
P	488m S	Incident Date: 09/05/2001 Incident Identification: 4923 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
P	488m S	Incident Date: 03/05/2001 Incident Identification: 4302 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)

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

4.20 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

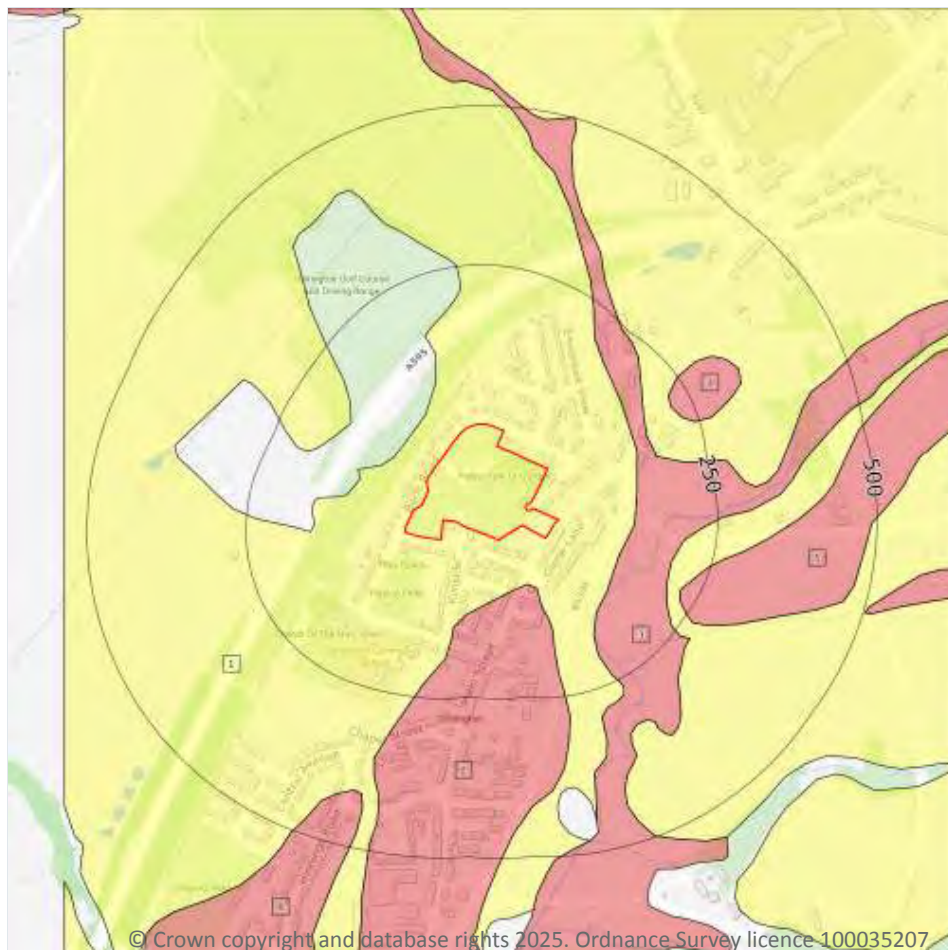
0

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



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

5.1 Superficial aquifer

Records within 500m

6

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 49 >](#)

ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	78m S	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



ID	Location	Designation	Description
3	110m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	217m 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
5	221m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
6	411m S	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.

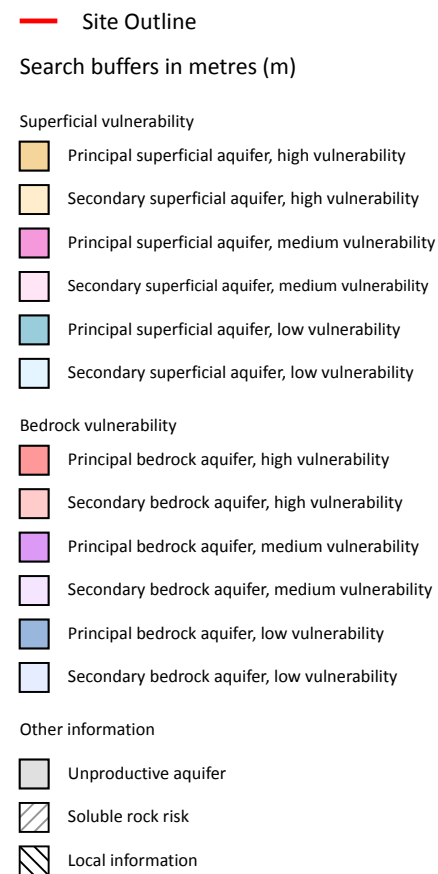
Features are displayed on the Bedrock aquifer map on [page 51](#) >

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

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

1

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

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

Features are displayed on the Groundwater vulnerability map on [page 52 >](#)



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Low 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	1

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
2	Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.	18.0%

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

5.5 Groundwater vulnerability- local information

Records on site	0

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

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

Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

2

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 54](#) >

ID	Location	Details	
-	1436m NE	Status: Active Licence No: NW/074/0001/001 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE - LOWER COAL MEASURES - PITTWOOD ROAD Data Type: Point Name: Handy Concrete (Cumbria) Limited Easting: 301953 Northing: 524643	Annual Volume (m ³): 10010 Max Daily Volume (m ³): 35 Original Application No: NPS/WR/003456 Original Start Date: 28/09/2010 Expiry Date: 31/03/2026 Issue No: 1 Version Start Date: 28/09/2010 Version End Date: -
-	1947m NE	Status: Active Licence No: NW/074/0001/002 Details: Laundry Use Direct Source: Ground Water - North West Region Point: BOREHOLE - LOWER COAL MEASURES - JOSEPH NOBLE ROAD Data Type: Point Name: Shortridge Ltd Easting: 302221 Northing: 525130	Annual Volume (m ³): 60000 Max Daily Volume (m ³): 300 Original Application No: NPS/WR/015770 Original Start Date: 04/09/2018 Expiry Date: 31/03/2026 Issue No: 1 Version Start Date: 04/09/2018 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

4

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 54 >](#)

ID	Location	Details	
-	1046m NE	Status: Historical Licence No: 2774001001 Details: Non-Evaporative Cooling Direct Source: "Surface, Non-Tidal - North West Region" Point: "DISTINGTON BECK AT LILLYHALL, WORKINGTON" Data Type: Point Name: PECHINEY AVIATUBE LTD Easting: 301700 Northing: 524300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 29/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 18/04/2001 Version End Date: -



ID	Location	Details	
-	1046m NE	Status: Historical Licence No: 2774001001 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "DISTINGTON BECK AT LILLYHALL, WORKINGTON" Data Type: Point Name: PECHINEY AVIATUBE LTD Easting: 301700 Northing: 524300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 29/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 18/04/2001 Version End Date: -
-	1046m NE	Status: Historical Licence No: 2774001001 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: DISTINGTON BECK AT LILLYHALL, WORKINGTON Data Type: Point Name: PECHINEY AVIATUBE LTD Easting: 301700 Northing: 524300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 29/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 18/04/2001 Version End Date: -
-	1046m NE	Status: Historical Licence No: 2774001001 Details: Non-Evaporative Cooling Direct Source: Surface, Non-Tidal - North West Region Point: DISTINGTON BECK AT LILLYHALL, WORKINGTON Data Type: Point Name: PECHINEY AVIATUBE LTD Easting: 301700 Northing: 524300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 29/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 18/04/2001 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

0

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

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



5.9 Source Protection Zones

Records within 500m

0

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

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m

0

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

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

6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

21

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 58 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
A	111m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
B	111m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	111m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	115m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	123m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	131m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Distington Beck
E	138m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Distington Beck
F	145m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	145m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	146m NE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
F	146m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	169m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
G	182m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	189m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
D	214m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	231m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	232m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	232m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
5	233m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
H	238m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	239m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Distington Beck

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

11

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

Features are displayed on the Hydrology map on [page 58](#) >

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 58 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River	Lowca Beck	GB112074070040	Ehen-Calder	South West Lakes

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 58 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
4	144m SE	River	Lowca Beck	GB112074070040 ↗	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 58 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	Derwent and West Cumbria Lower Palaeozoic and Carboniferous Aquifers	GB41202G103700 ↗	Poor	Poor	Good	2019

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



7 River and coastal flooding



- Site Outline
- Search buffers in metres (m)
- River and coastal flooding:
- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

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

1

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.

Features are displayed on the River and coastal flooding map on [page 62](#) >

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
1	95m E	Flooding 05_11_1999	1999-11-05 1999-11-05	Main river	Channel capacity exceeded (no raised defences)	Fluvial

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

1 in 30 year, 0.3m - 1.0m

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 65](#) >

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

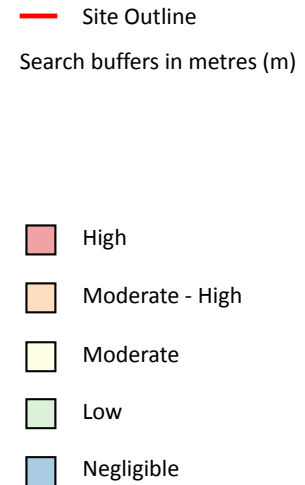
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.3m and 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.3m and 1.0m
1 in 30 year	Between 0.3m and 1.0m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

Low

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 67](#) >

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



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

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m**0**

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

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

10.7 Designated Ancient Woodland

Records within 2000m**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 68 >](#)

ID	Location	Name	Woodland Type
1	699m S	Unknown	Ancient & Semi-Natural Woodland
2	836m SE	Unknown	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m**0**

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

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

10.9 Forest Parks

Records within 2000m**0**

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

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m**0**

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

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

10.11 Green Belt

Records within 2000m**0**

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

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

10.12 Proposed Ramsar sites

Records within 2000m**0**

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m**0**

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

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

This data is sourced from Natural England.



10.15 Nitrate Sensitive Areas

Records within 2000m**0**

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m**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	0

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.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0

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

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



11 Visual and cultural designations



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

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m**0**

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

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

11.3 National Parks

Records within 250m**0**

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

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

11.4 Listed Buildings

Records within 250m**2**

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 74 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
1	168m SW	Chancel Arch From Medieval Church To North West Of Present Church	II	1086702	09/08/1984
2	181m SW	Church Of The Holy Spirit	II	1137112	09/08/1984

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



11.5 Conservation Areas

Records within 250m**0**

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

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

11.6 Scheduled Ancient Monuments

Records within 250m**0**

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

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

11.7 Registered Parks and Gardens

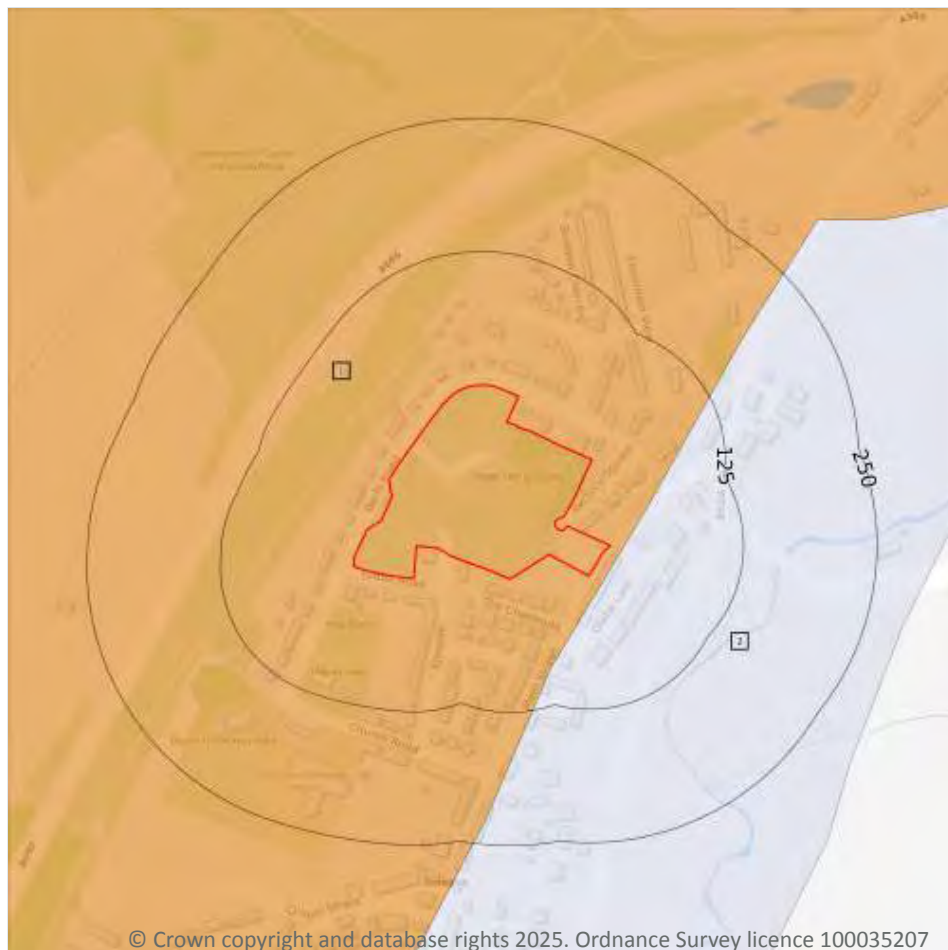
Records within 250m**0**

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

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



12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

2

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

Features are displayed on the Agricultural designations map on [page 77](#) >

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

ID	Location	Classification	Description
2	11m SE	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.

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

1

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

Features are displayed on the Habitat designations map on [page 80](#) >

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

This data is sourced from Natural England.



13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

1

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

Features are displayed on the Habitat designations map on [page 80 >](#)

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
1	231m NE	-	Low	UK Perspectives Aerial Photography	-	-

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



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

14.1 10k Availability

Records within 500m

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 82](#) >

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

This data is sourced from the British Geological Survey.



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

14.2 Artificial and made ground (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on [page 86](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW028_whitehaven_v4

This data is sourced from the British Geological Survey.



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



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

15.2 Artificial and made ground (50k)

Records within 500m

2

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 87](#) >

ID	Location	LEX Code	Description	Rock description
1	61m NW	LSGR-ARTGR	Landscaped Ground	Artificially modified ground
2	485m S	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

8

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 89](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	Till, Devensian	Diamicton
2	78m S	GFDUD-XSV	Glaciofluvial deposits, Devensian	Sand and gravel
3	110m SE	ALV-XCZSV	Alluvium	Clay, silt, sand and gravel



ID	Location	LEX Code	Description	Rock description
4	189m E	TILLD-DMTN	Till, Devensian	Diamicton
5	217m NE	GFDUD-XSV	Glaciofluvial deposits, Devensian	Sand and gravel
6	221m SE	GFDUD-XSV	Glaciofluvial deposits, Devensian	Sand and gravel
8	411m S	GFDUD-XSV	Glaciofluvial deposits, Devensian	Sand and gravel
9	499m S	ALF-XSV	Alluvial fan deposits	Sand and gravel

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

1

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Low

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 89](#) >

ID	Location	LEX Code	Description	Rock description
7	394m S	SLIP-UNKNOWN	Landslide deposits	Unknown/unclassified entry

This data is sourced from the British Geological Survey.



15.7 Landslip permeability (50k)

Records within 50m

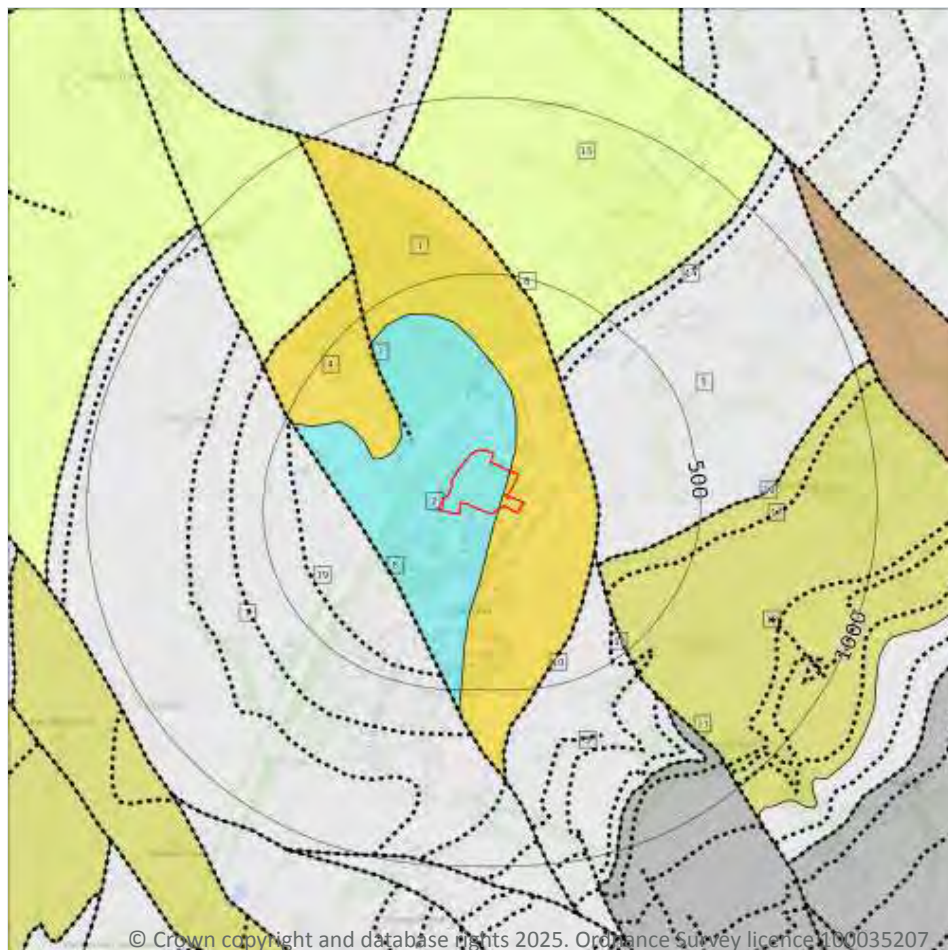
0

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

8

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 92 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	HG-SDST	Hensingham Grit-Sandstone	Namurian
2	On site	LM1-LMST	First Limestone (Cumbria)-Limestone	Namurian
4	184m NW	HG-SDST	Hensingham Grit-Sandstone	Namurian



ID	Location	LEX Code	Description	Rock age
5	199m E	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
7	213m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
9	245m SE	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
12	272m SE	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian
15	307m NE	SMGP-MDSS	Stainmore Formation-Mudstone, siltstone and sandstone	Namurian

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	2

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

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

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	11

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 92](#) >

ID	Location	Category	Description
3	156m NW	FAULT	Fault, inferred, displacement unknown
6	199m E	FAULT	Fault, inferred, displacement unknown
8	213m SW	FAULT	Fault, inferred, displacement unknown

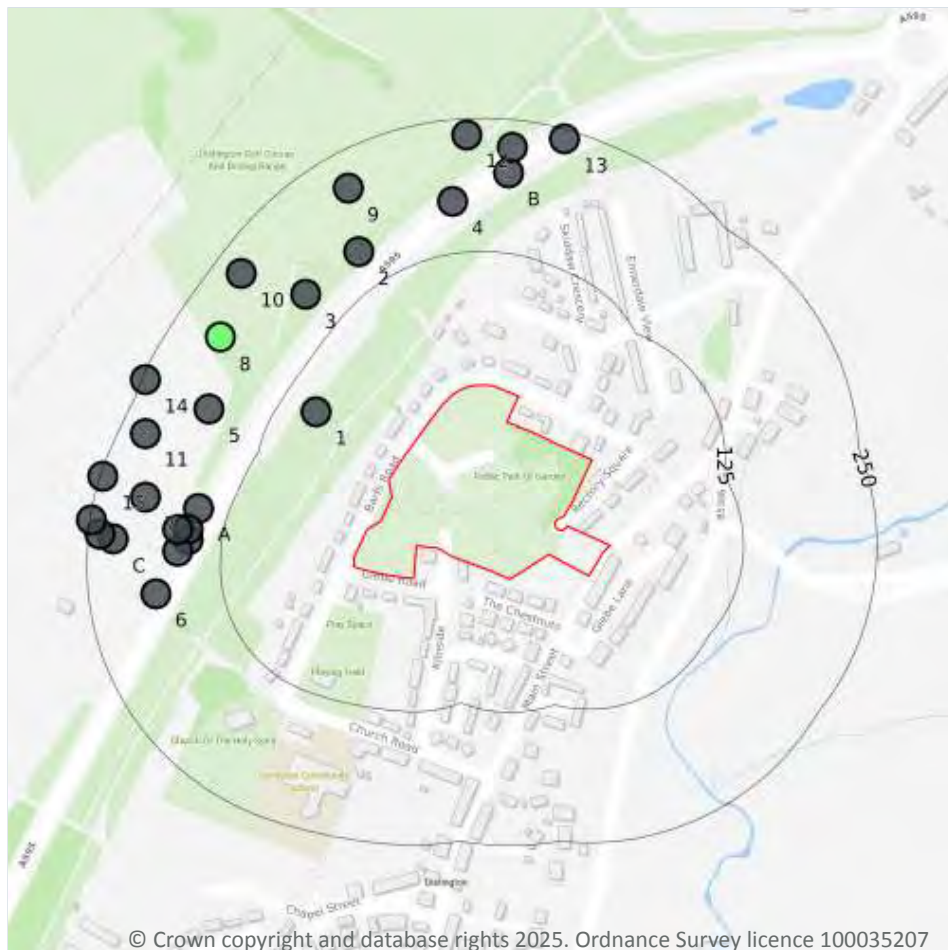


ID	Location	Category	Description
10	245m SE	FAULT	Fault, inferred, displacement unknown
11	245m SE	FAULT	Fault, inferred, displacement unknown
13	272m SE	ROCK	Coal seam, inferred
14	277m NE	ROCK	Coal seam, inferred
16	307m NE	FOSSIL_HORIZON	Marine band
17	342m SE	ROCK	Coal seam, inferred
18	388m SE	ROCK	Coal seam, inferred
19	398m W	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m

25

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

Features are displayed on the Boreholes map on [page 95 >](#)

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	92m NW	300500 523890	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 806	-	Y	N/A
A	153m W	300390 523800	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 816	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	156m W	300380 523770	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II TP1002	-	Y	N/A
A	158m W	300380 523780	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II TP1002A	-	Y	N/A
2	160m NW	300540 524040	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 702	-	Y	N/A
3	165m NW	300490 524000	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 807	-	Y	N/A
A	166m W	300370 523760	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 817	-	Y	N/A
A	168m W	300370 523780	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 815	-	Y	N/A
4	173m N	300628 524087	A595 LILLYHALL TO PARTON IMPROVEMENT 142/R142	-	Y	N/A
5	181m W	300400 523893	A595 LILLYHALL TO PARTON IMPROVEMENT 141/R141	-	Y	N/A
6	187m W	300350 523720	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II TP1003	-	Y	N/A
B	200m N	300680 524114	A595 LILLYHALL TO PARTON IMPROVEMENT 224/R224	-	Y	N/A
7	204m W	300340 523810	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 701	-	Y	N/A
8	205m NW	300410 523960	LIME QUARRIES	17.34	N	774072 ↗
9	216m NW	300530 524100	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 810	-	Y	N/A
B	224m N	300684 524138	A595 LILLYHALL TO PARTON IMPROVEMENT 225/R225	-	Y	N/A
10	224m NW	300430 524020	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 808	-	Y	N/A
C	226m W	300310 523771	A595 LILLYHALL TO PARTON IMPROVEMENT 222/R222	-	Y	N/A
11	226m NW	300340 523870	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 801	-	Y	N/A
12	235m N	300641 524150	A595 LILLYHALL TO PARTON IMPROVEMENT R227	-	Y	N/A
C	240m W	300297 523776	A595 LILLYHALL TO PARTON IMPROVEMENT TP TT401	-	Y	N/A

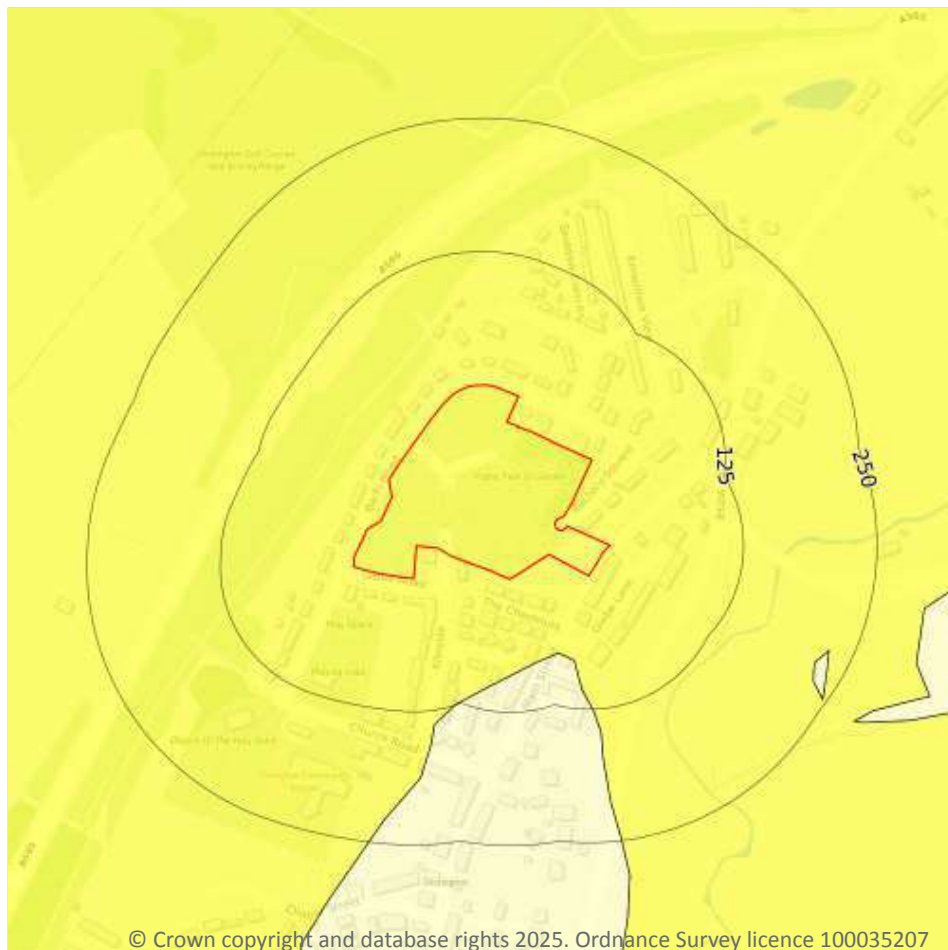


ID	Location	Grid reference	Name	Length	Confidential	Web link
13	241m N	300733 524146	A595 LILLYHALL TO PARTON IMPROVEMENT 143	-	Y	N/A
14	247m W	300340 523920	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 803	-	Y	N/A
15	248m W	300300 523830	A595 PARTON TO LILLYHALL IMPROVEMENT PHASE II 802	-	Y	N/A
C	249m W	300289 523789	A595 LILLYHALL TO PARTON IMPROVEMENT 223/R223	-	Y	N/A

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



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

17.1 Shrink swell clays

Records within 50m

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).

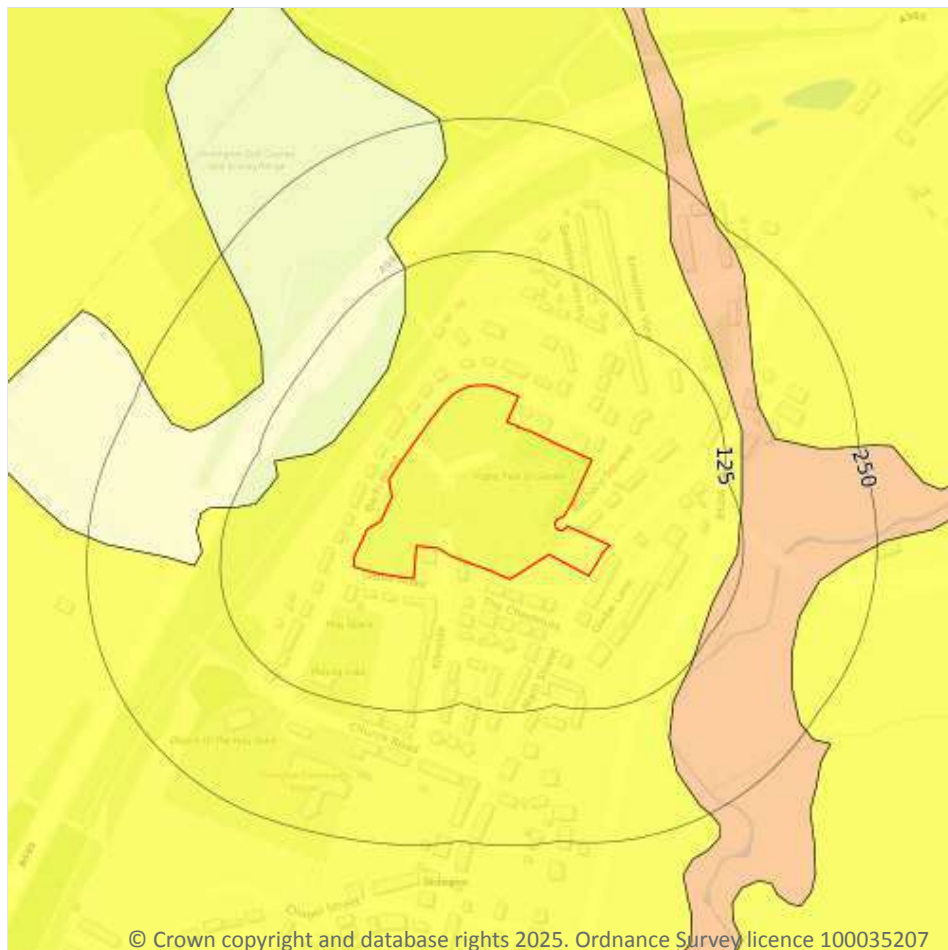
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 98](#) >

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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

17.2 Running sands

Records within 50m

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.

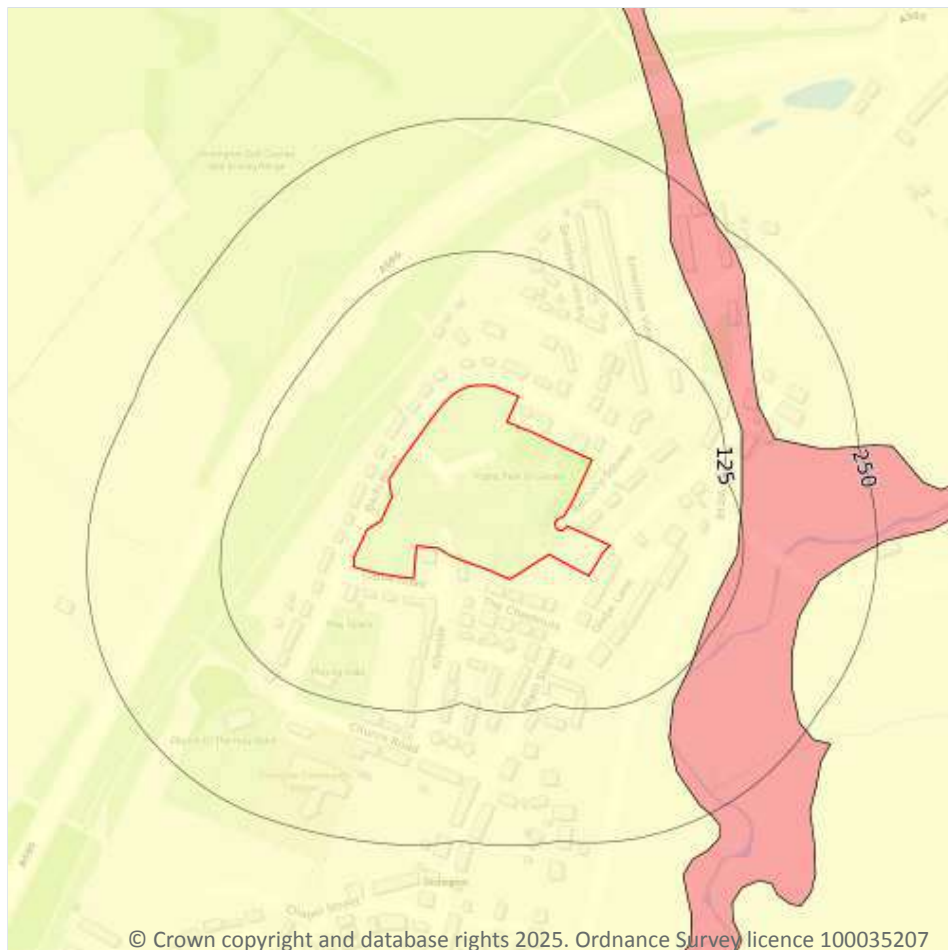
Features are displayed on the Natural ground subsidence - Running sands map on [page 99](#) >

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

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.

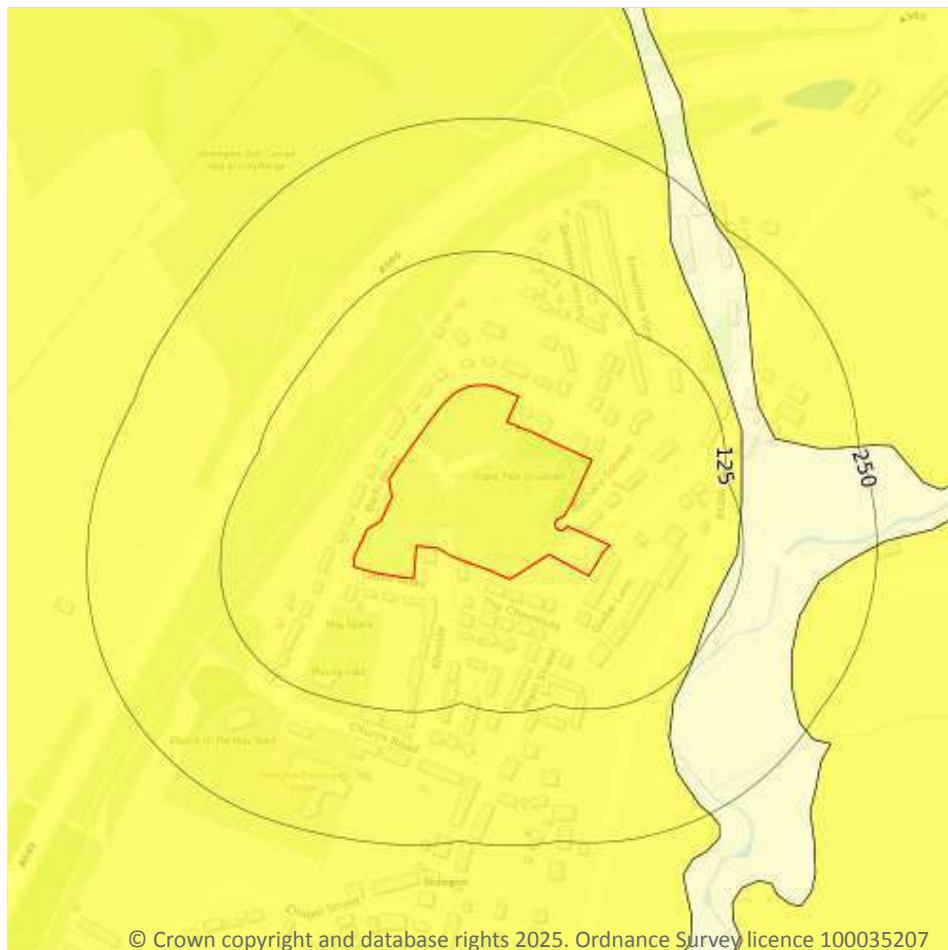
Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 100](#) >

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.

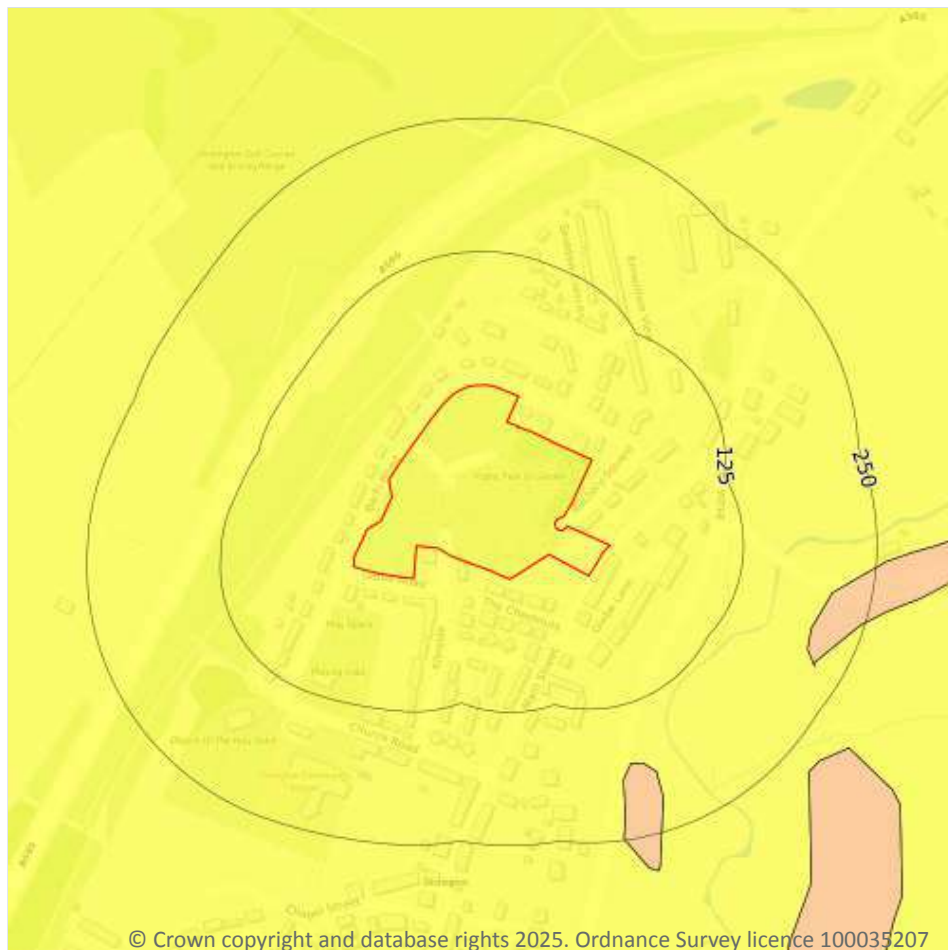
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 101](#) >

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

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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.

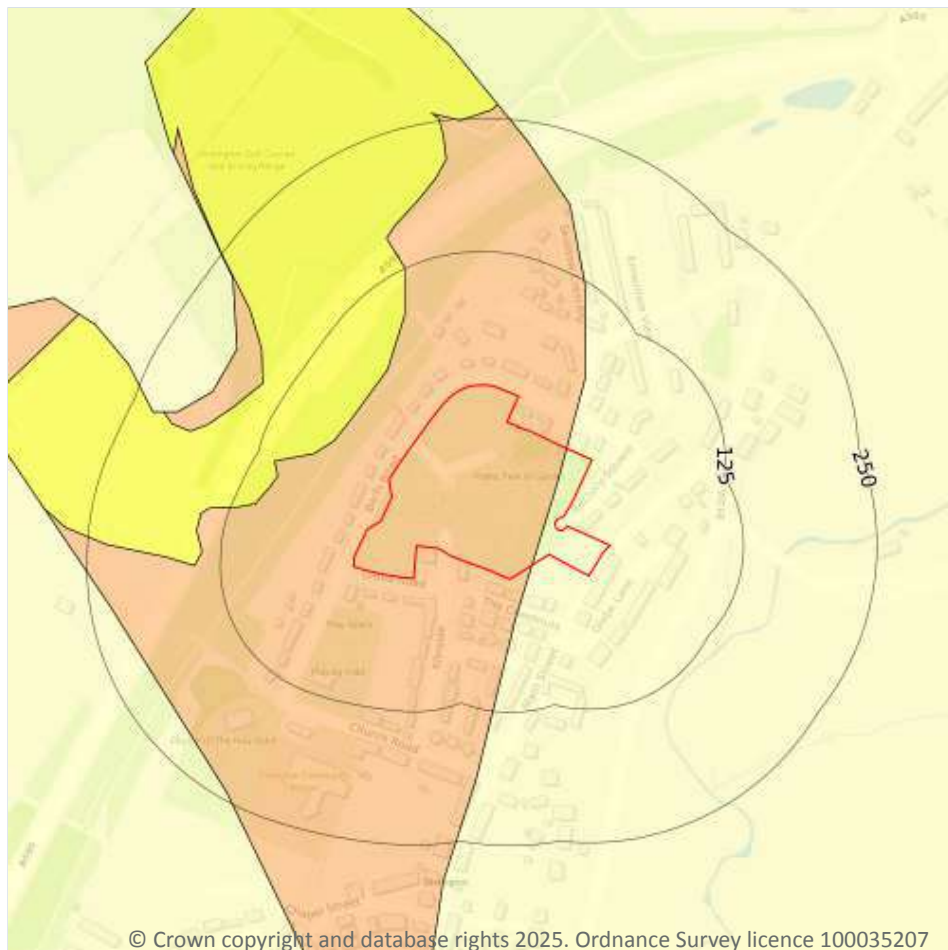
Features are displayed on the Natural ground subsidence - Landslides map on [page 102 >](#)

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



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

17.6 Ground dissolution of soluble rocks

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 103 >](#)

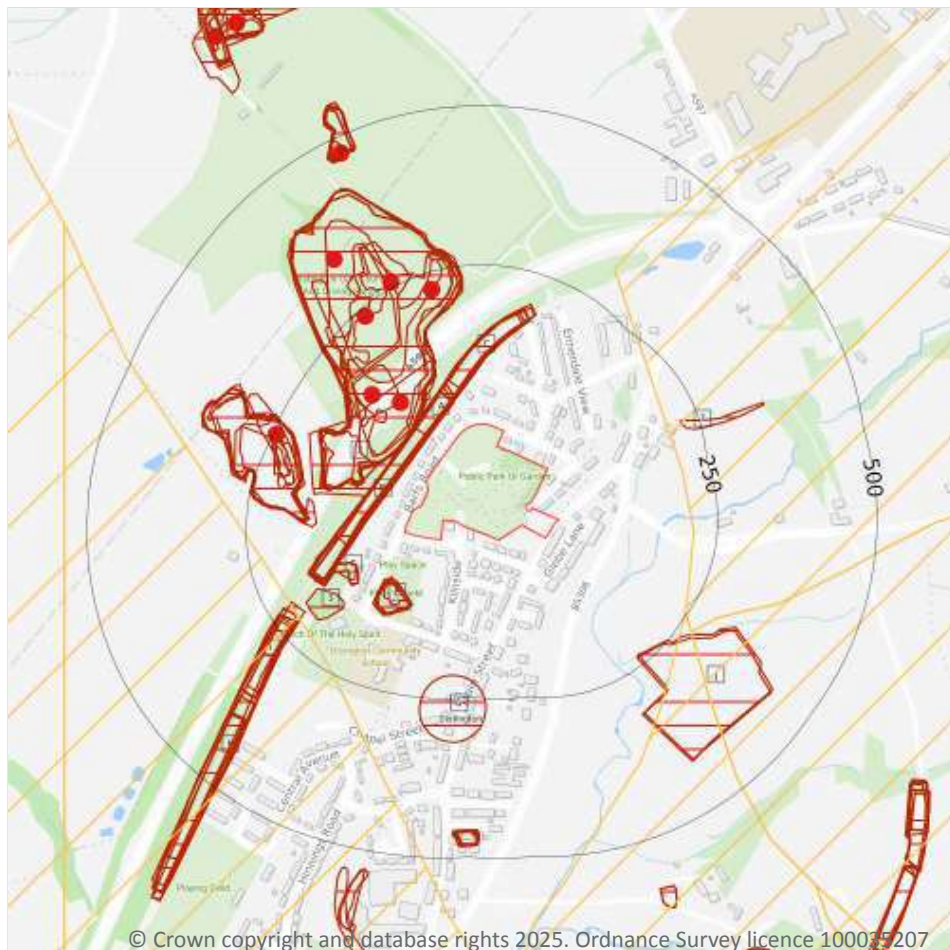
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

Location	Hazard rating	Details
On site	Low	Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances.

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

8

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 105](#) >

ID	Location	Details	Description
D	104m NW	Name: Barf's Quarries Address: Distington, WHITEHAVEN, Cumbria Commodity: Limestone 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.
D	147m NW	Name: Barf's Quarries Address: Distington, WHITEHAVEN, Cumbria Commodity: Limestone 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.
8	223m N	Name: Barf's Quarries Address: Distington, WHITEHAVEN, Cumbria Commodity: Limestone 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.
D	236m NW	Name: Barf's Quarries Address: Distington, WHITEHAVEN, Cumbria Commodity: Limestone 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
G	245m NW	Name: Barf's Quarries Address: Distington, WHITEHAVEN, Cumbria Commodity: Limestone 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.
10	259m NW	Name: Barf's Quarries Address: Distington, WHITEHAVEN, Cumbria Commodity: Limestone 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.
13	338m NW	Name: Barfs Quarry Address: Dean, WORKINGTON, Cumbria Commodity: Silica Rock 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.
M	476m NW	Name: Barfs Quarry Address: Distington, WORKINGTON, Cumbria 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

73

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 105 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
A	37m NW	Cuttings	1898	1:10560
A	37m NW	Cuttings	1923	1:10560
A	37m NW	Cuttings	1923	1:10560
A	37m NW	Cuttings	1923	1:10560
A	37m NW	Cuttings	1923	1:10560
B	40m NW	Cuttings	1991	1:10000
A	40m NW	Cuttings	1967	1:10560
A	41m NW	Cuttings	1938	1:10560
B	41m NW	Cuttings	1947	1:10560
A	43m NW	Cuttings	1951	1:10560
C	54m NW	Cuttings	1947	1:10560
C	54m NW	Cuttings	1898	1:10560
1	59m NW	Unspecified Disused Workings	1991	1:10000
C	60m N	Cuttings	1991	1:10000
D	62m NW	Disused Quarries	1923	1:10560
D	62m NW	Disused Quarries	1923	1:10560
D	62m NW	Disused Quarries	1923	1:10560
D	62m NW	Disused Quarries	1923	1:10560
D	62m NW	Unspecified Disused Quarries	1938	1:10560
D	62m NW	Unspecified Disused Quarries	1951	1:10560
D	62m NW	Water Body	1951	1:10560
D	62m NW	Unspecified Disused Quarries	1967	1:10560
D	62m NW	Unspecified Disused Quarries	1947	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
D	62m NW	Unspecified Disused Quarries	1898	1:10560
D	67m NW	Pond	1967	1:10560
D	73m NW	Water Body	1898	1:10560
E	73m S	Pond	1938	1:10560
E	77m S	Pond	1864	1:10560
E	77m S	Pond	1923	1:10560
E	77m S	Pond	1923	1:10560
E	77m S	Pond	1923	1:10560
E	77m S	Pond	1923	1:10560
E	82m S	Pond	1951	1:10560
E	84m S	Pond	1947	1:10560
E	84m S	Pond	1898	1:10560
F	91m SW	Unspecified Heap	1947	1:10560
F	93m SW	Unspecified Ground Workings	1923	1:10560
F	93m SW	Unspecified Ground Workings	1923	1:10560
F	93m SW	Unspecified Ground Workings	1923	1:10560
F	93m SW	Unspecified Ground Workings	1923	1:10560
F	95m W	Cuttings	1898	1:10560
D	108m NW	Water Body	1864	1:10560
2	109m NW	Ponds	1991	1:10000
G	140m W	Unspecified Disused Quarries	1967	1:10560
3	145m SW	Grave Yard	1864	1:10560
G	152m W	Disused Quarries	1923	1:10560
G	152m W	Disused Quarries	1923	1:10560
G	152m W	Disused Quarries	1923	1:10560
G	152m W	Disused Quarries	1923	1:10560
G	154m W	Unspecified Disused Quarries	1938	1:10560
G	156m W	Unspecified Disused Quarries	1947	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
G	156m W	Unspecified Disused Quarries	1898	1:10560
G	158m W	Unspecified Pit	1951	1:10560
D	166m NW	Unspecified Disused Quarries	1864	1:10560
D	172m NW	Water Body	1864	1:10560
G	188m NW	Unspecified Disused Quarries	1864	1:10560
G	188m W	Pond	1967	1:10560
G	200m NW	Pond	1947	1:10560
H	201m SW	Cuttings	1967	1:10560
G	202m NW	Pond	1951	1:10560
I	213m SW	Cuttings	1938	1:10560
6	214m S	Saw Pit	1864	1:10560
I	215m SW	Cuttings	1947	1:10560
I	215m SW	Cuttings	1898	1:10560
H	220m SW	Cuttings	1923	1:10560
H	220m SW	Cuttings	1923	1:10560
H	220m SW	Cuttings	1923	1:10560
H	220m SW	Cuttings	1923	1:10560
7	221m E	Pond	1864	1:10560
H	230m SW	Cuttings	1951	1:10560
I	233m SW	Cuttings	1991	1:10000
J	234m SE	Sewage Works	1947	1:10560
J	237m SE	Sewage Works	1951	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**8**

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 105 >](#)

ID	Location	Name	Commodity	Class	Likelihood
4	199m E	Not available	Iron Ore (Bedded)	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.
5	213m SW	Not available	Iron Ore (Bedded)	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.
9	245m SE	Not available	Iron Ore (Bedded)	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.



ID	Location	Name	Commodity	Class	Likelihood
12	272m SE	Not available	Iron Ore (Bedded)	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.
14	535m W	Not available	Iron Ore (Bedded)	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.
15	690m SE	Not available	Iron Ore (Bedded)	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.
-	842m N	Not available	Iron Ore (Bedded)	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.
-	982m S	Not available	Iron Ore (Bedded)	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).

This aerial map shows the Church of the Holy Spirit, a red-outlined building in the center. Concentric circles are drawn around the church, labeled 250 and 500, indicating distances. A blue dot is located on the River Selly Oak to the right of the church. The map includes various street names such as Church Street, Chapel Street, and Selly Oak Road. Other landmarks include the Birmingham Hall and the Birmingham Hall. The map is overlaid with a grid of latitude and longitude coordinates.

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- 115

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

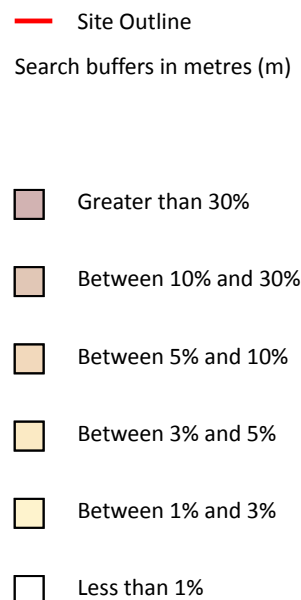
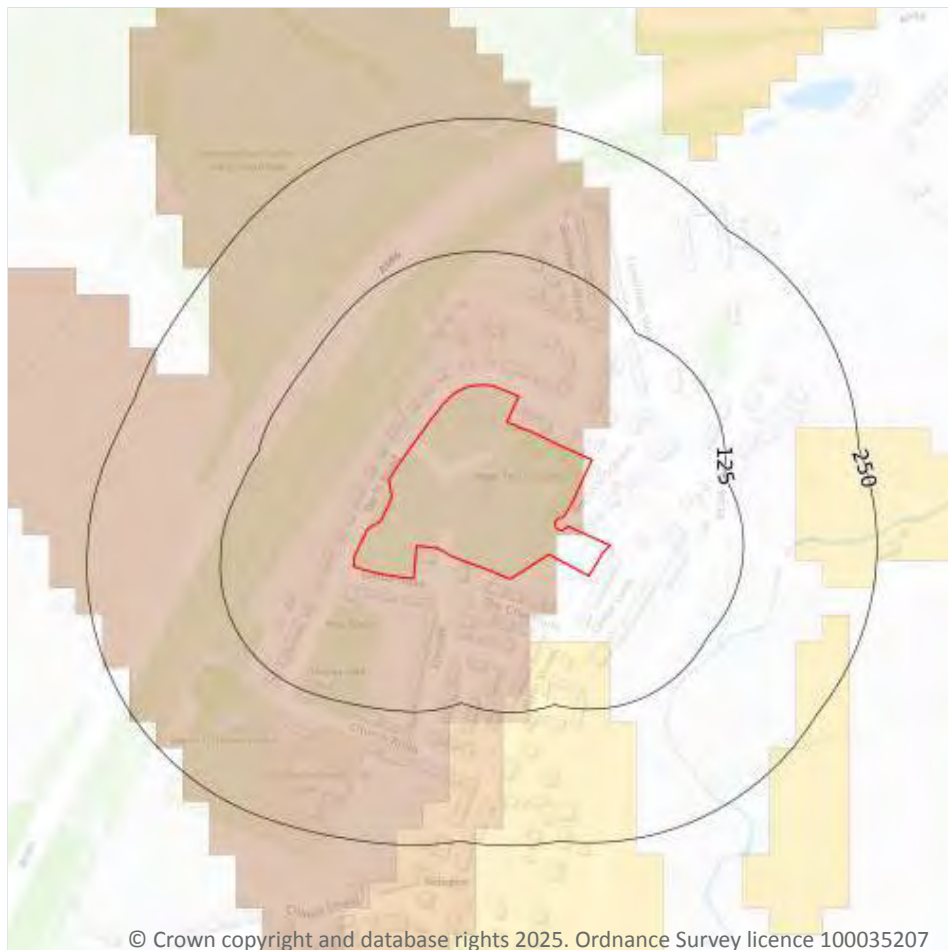
This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a 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



20.1 Radon

Records on site

2

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 117](#) >

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 10% and 30%	Full



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

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



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

3

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
35m W	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 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 km²).

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 km².

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects



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

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

5

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

Features are displayed on the Railway infrastructure and projects map on [page 120 >](#)

Location	Land Use	Year of mapping	Mapping scale
201m NE	Railway Sidings	1951	10560
201m NE	Railway Sidings	1967	10560
211m N	Railway Sidings	1900	2500
212m N	Railway Sidings	1925	2500
215m NE	Mineral Railway Sidings	1967	2500

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

3

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

Features are displayed on the Railway infrastructure and projects map on [page 120 >](#)

Location	Description
50m NW	Razed
53m NW	Historical OSM
187m N	Historical OSM

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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Appendix III

- Historical Map Extracts

Site Details:

unspecified

Client Ref: EMS_1065737_1334935
Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: County Series

Map date: 1862

Scale: 1:2,500

Printed at: 1:2,500



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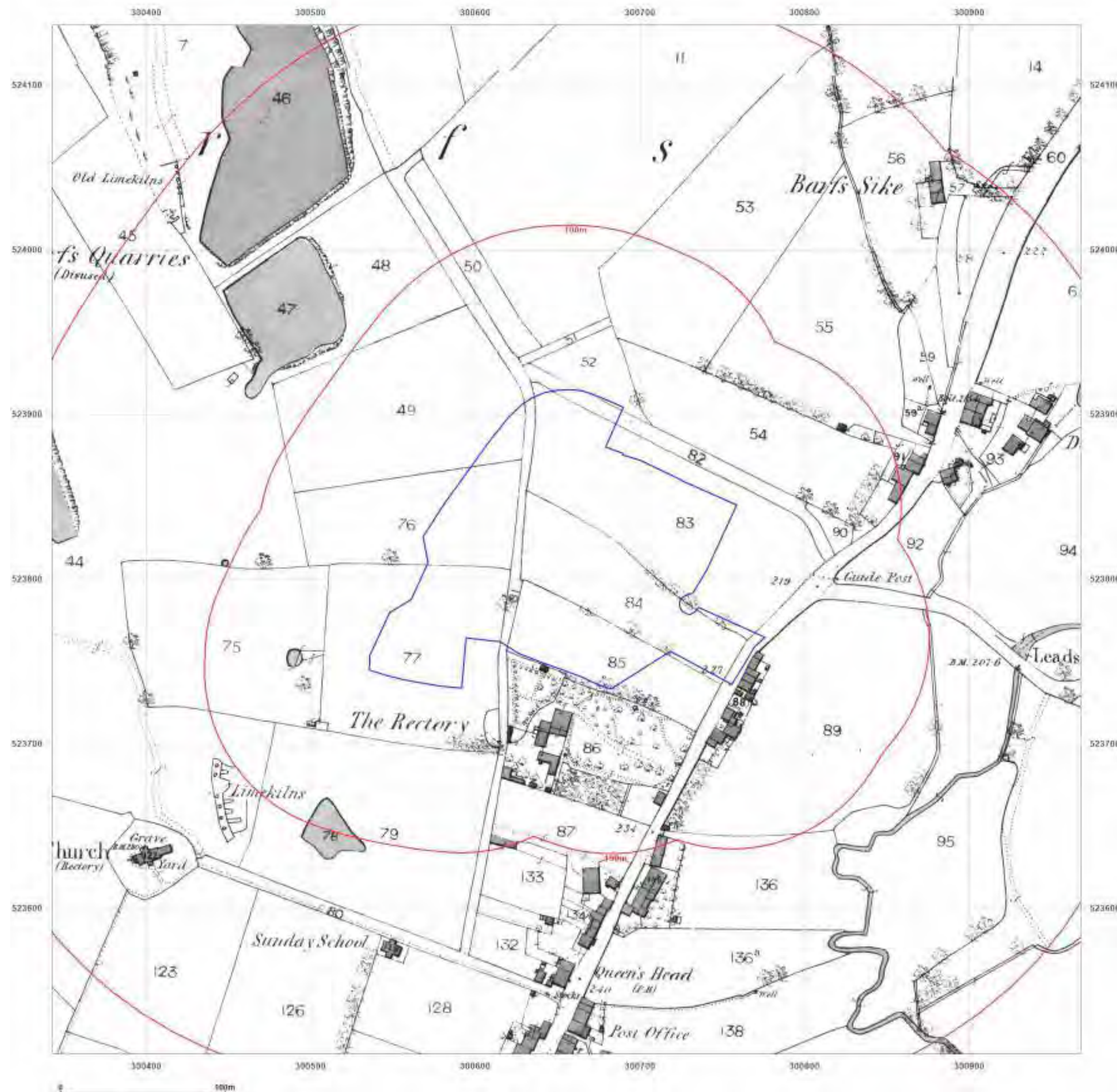


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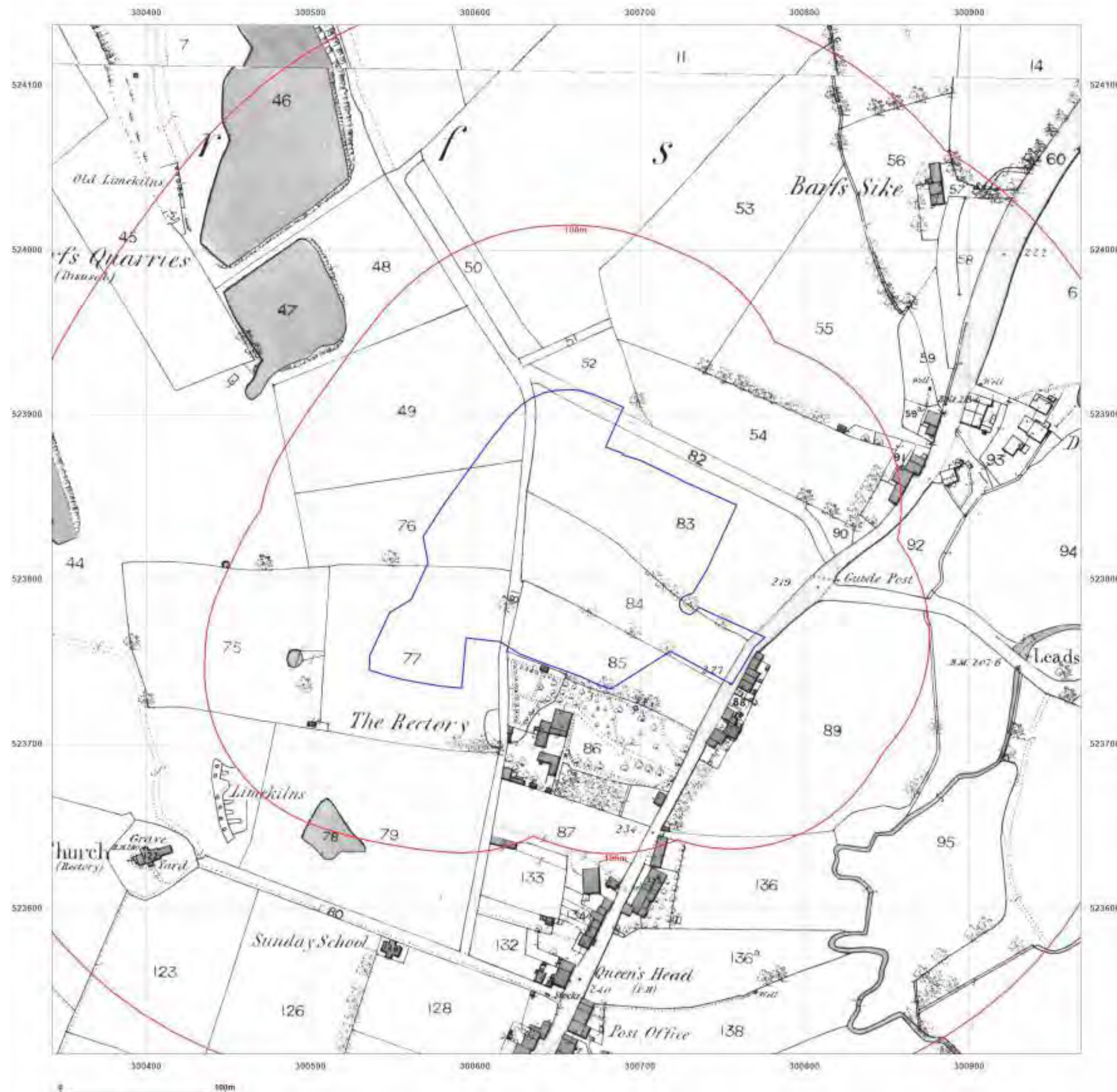


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Client Ref: EMS_1065737_1334935
Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: County Series

Map date: 1899-1900

Scale: 1:2,500

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Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: County Series

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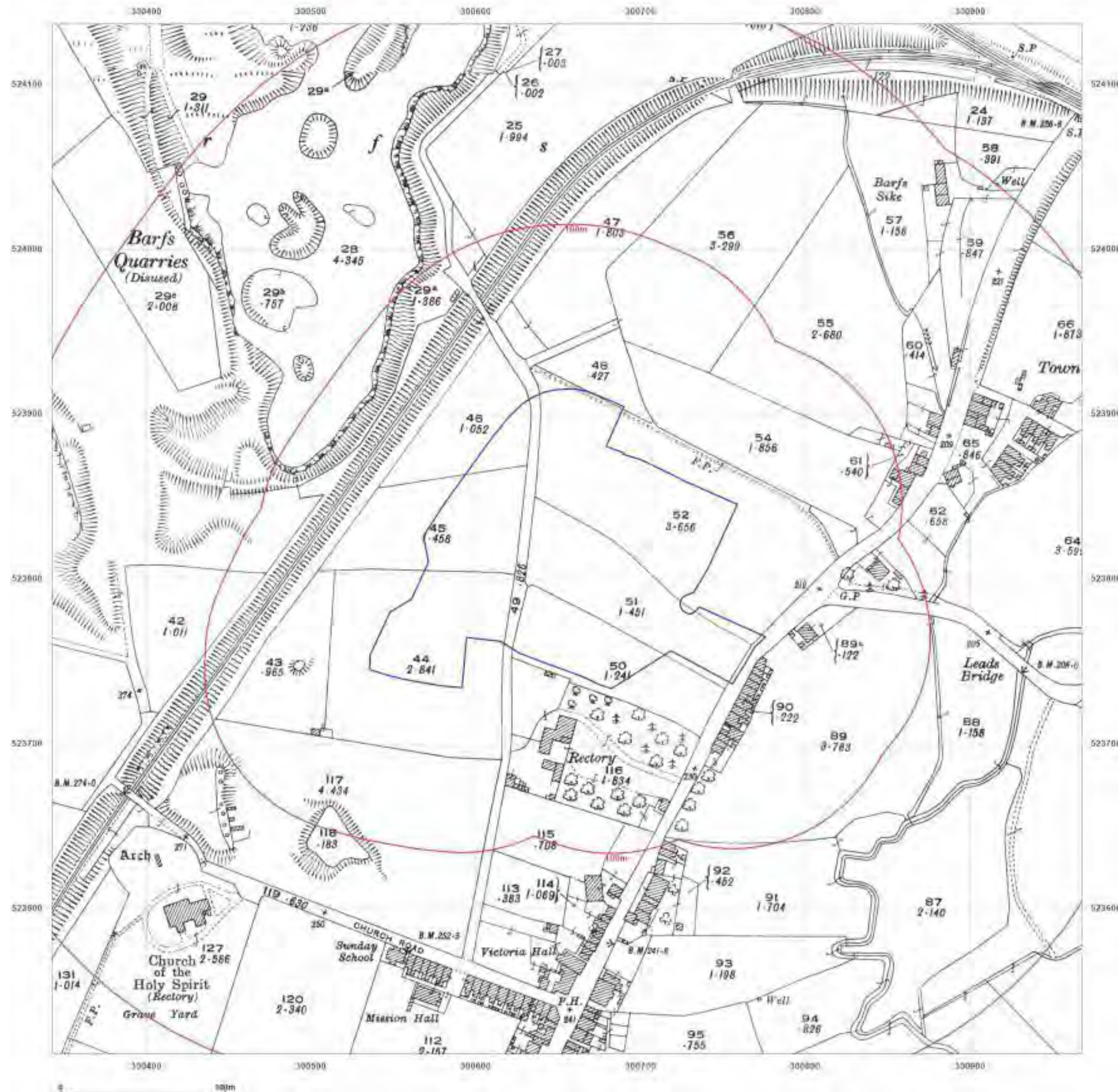


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Client Ref: EMS_1065737_1334935
Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: National Grid

Map date: 1961

Scale: 1:2,500

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Grid Ref: 300655, 523824

Map Name: National Grid

Map date: 1978-1982

Scale: 1:2,500

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Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: National Grid

Map date: 1985

Scale: 1:2,500

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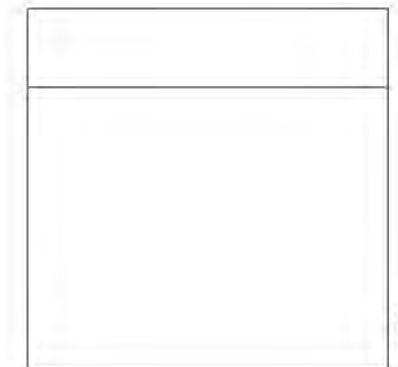
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Grid Ref: 300655, 523824

Map Name: National Grid

Map date: 1988

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Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: National Grid

Map date: 1994

Scale: 1:2,500

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Map Name: LandLine

Map date: 2003

Scale: 1:1,250

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Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: County Series

Map date: 1862

Scale: 1:2,500

Printed at: 1:2,500



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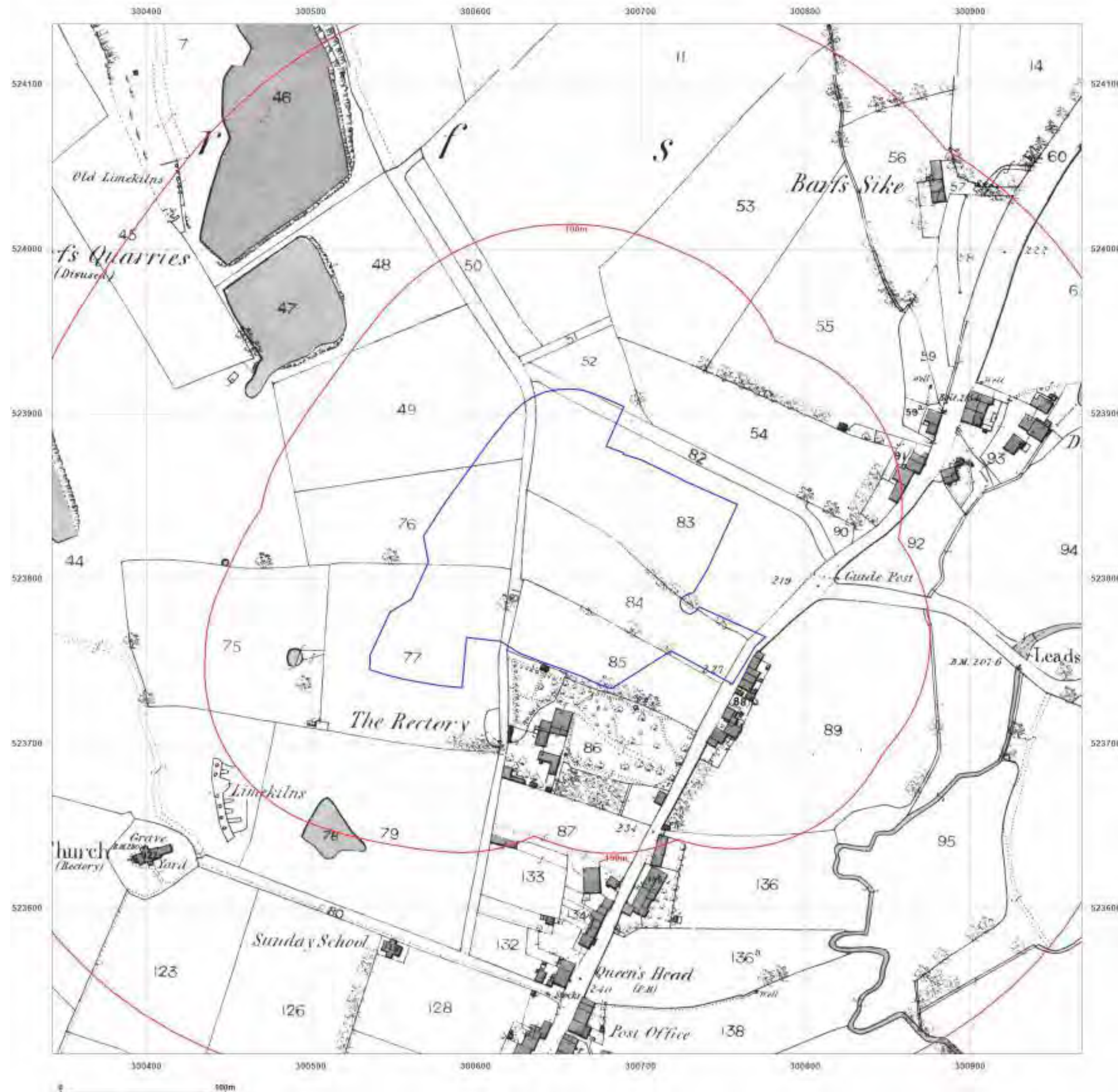


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Map Name: County Series

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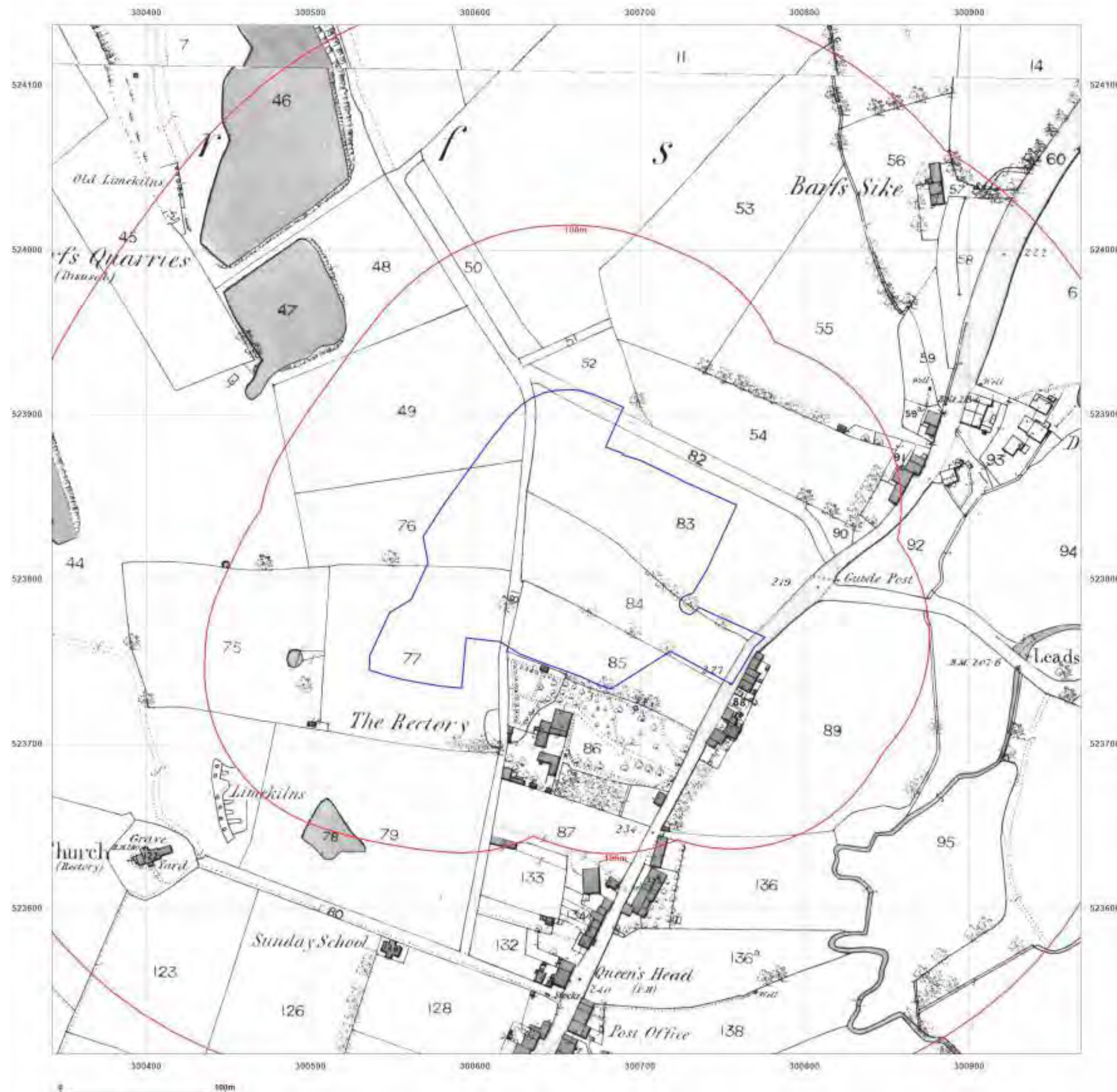


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Grid Ref: 300655, 523824

Map Name: County Series

Map date: 1899-1900

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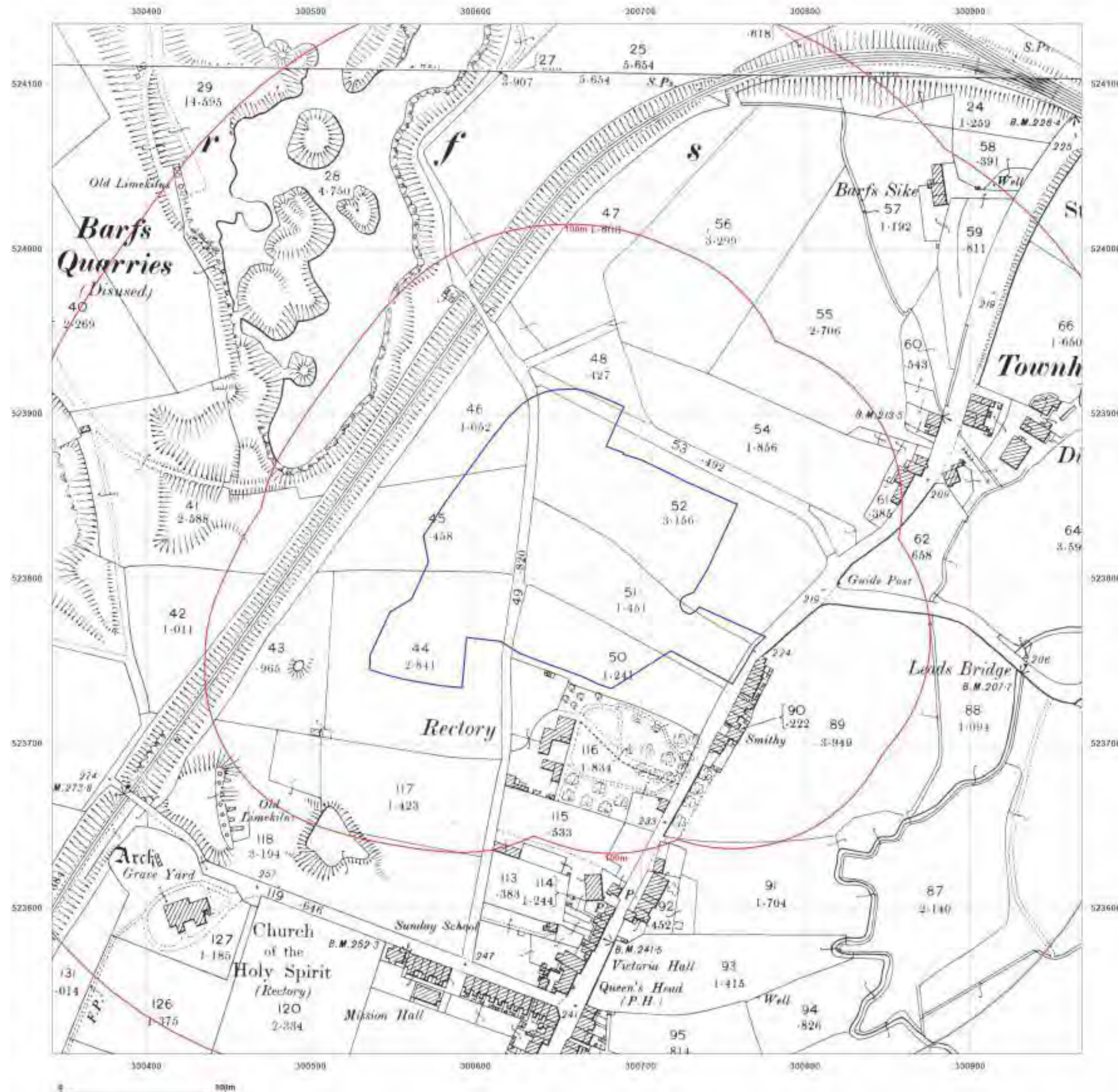


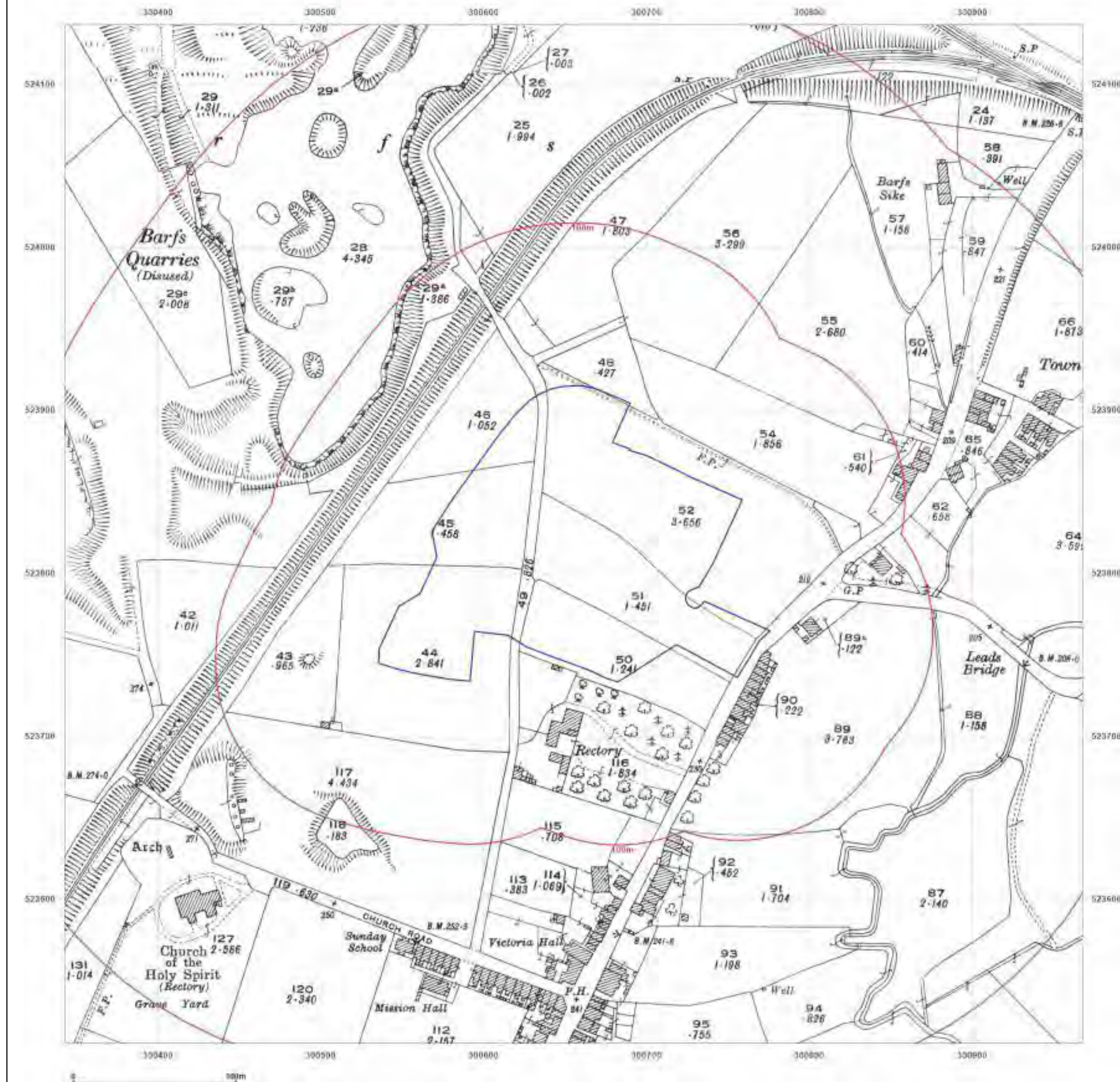
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Map Name: County Series

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Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: National Grid

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Site Details:

unspecified

Client Ref: EMS_1065737_1334935
Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: National Grid

Map date: 1978-1982

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
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Surveyed 1965
Revised 1982
Edition N/A
Copyright 1982
Levelled 1965



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Site Details:

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Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: National Grid

Map date: 1985

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1965
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Site Details:

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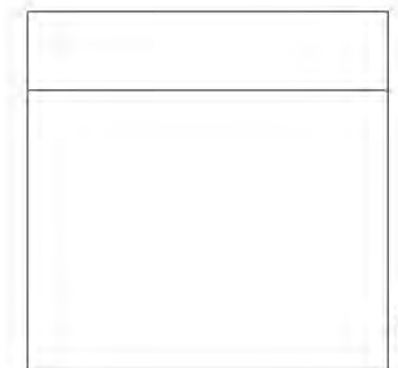
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Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: National Grid

Map date: 1988

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1987
Revised 1987
Edition N/A
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Site Details:

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Client Ref: EMS_1065737_1334935
Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: National Grid

Map date: 1994

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1994
 Revised N/A
 Edition N/A
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Surveyed 1994
 Revised N/A
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Site Details:

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Client Ref: EMS_1065737_1334935
Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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Site Details:

unspecified

Client Ref: EMS_1065737_1334935
Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: County Series

Map date: 1864

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1864
Revised 1864
Edition N/A
Copyright N/A
Levelled N/A



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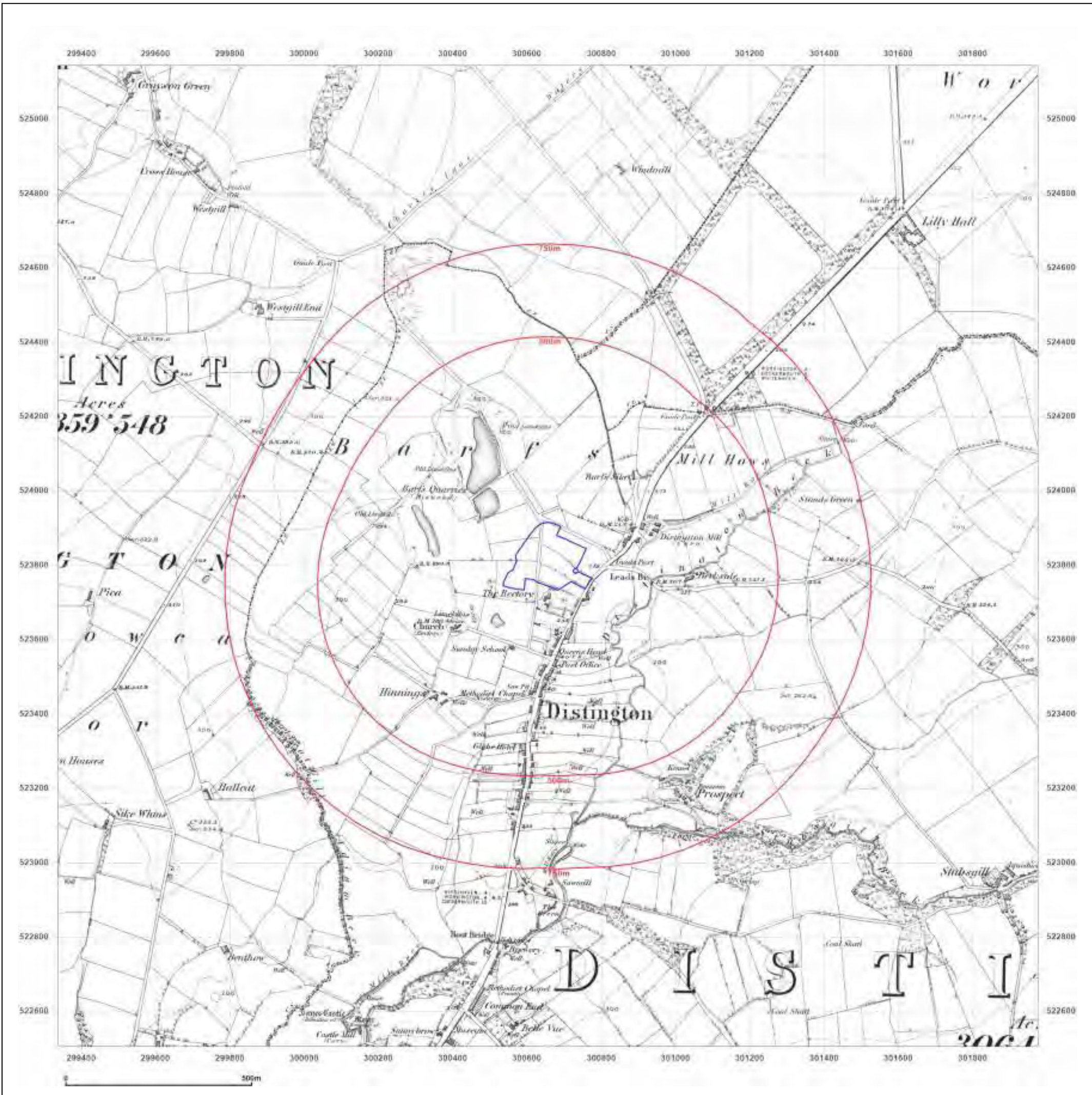


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Site Details:

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Client Ref: EMS_1065737_1334935
Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: County Series

Map date: 1898

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1864
 Revised 1898
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Surveyed 1863
 Revised 1898
 Edition N/A
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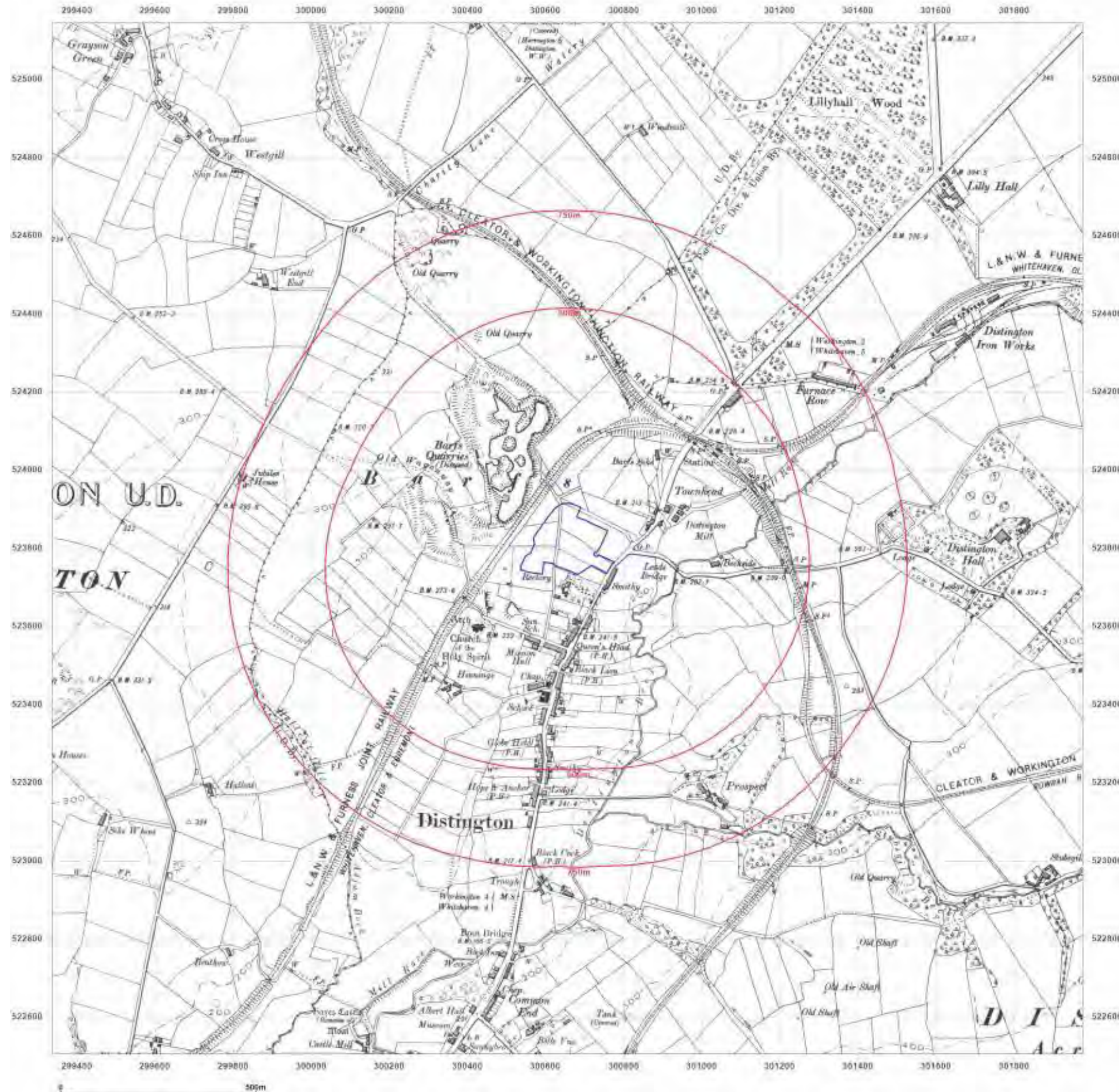


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Site Details:

unspecified

Client Ref: EMS_1065737_1334935
Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: County Series

Map date: 1923

Scale: 1:10,560

Printed at: 1:10,560



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 Revised 1923
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Surveyed 1863
 Revised 1923
 Edition N/A
 Copyright N/A
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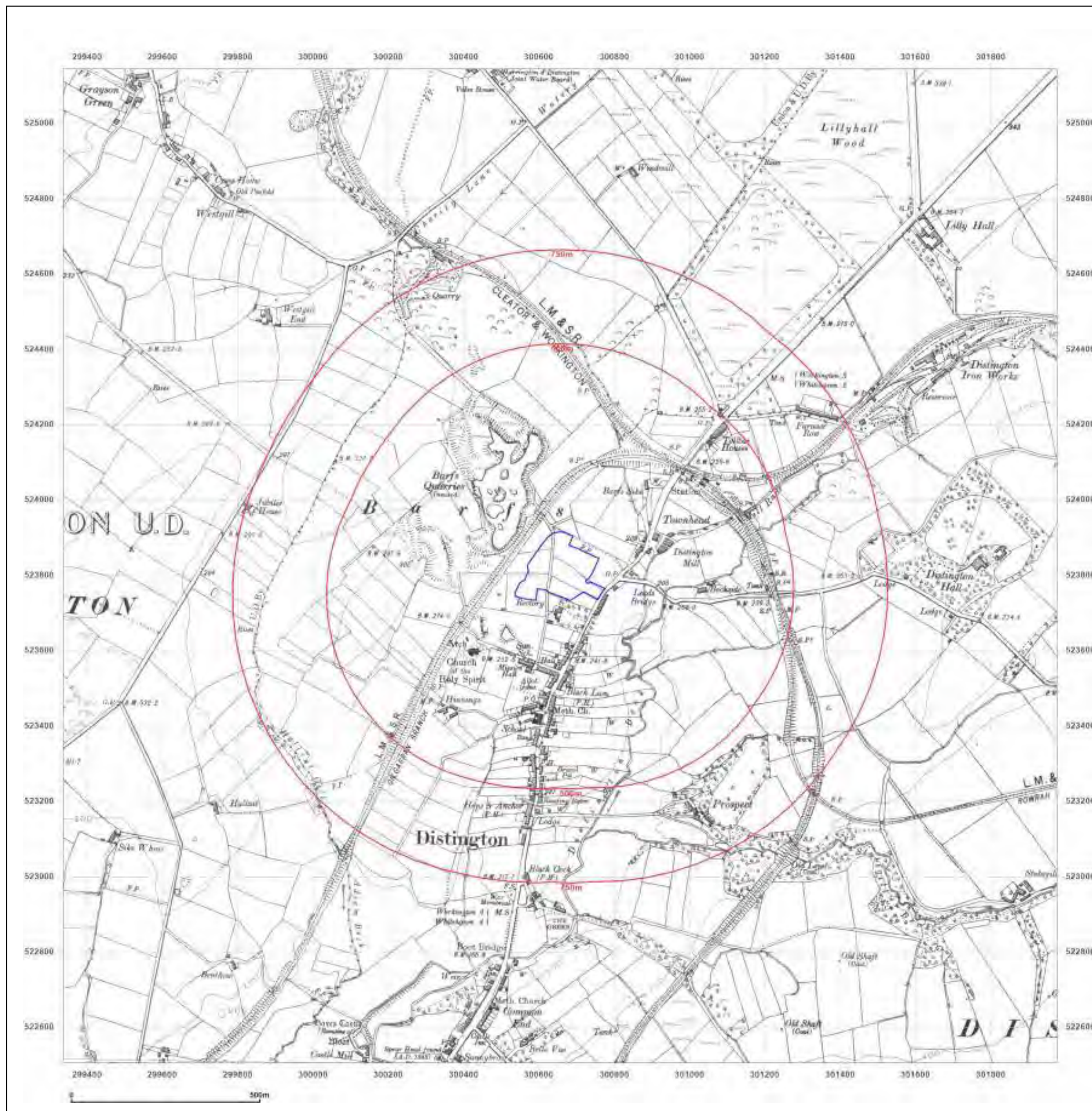


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Site Details:

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Client Ref: EMS_1065737_1334935
Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: County Series

Map date: 1923

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1864
 Revised 1923
 Edition N/A
 Copyright N/A
 Levelled N/A



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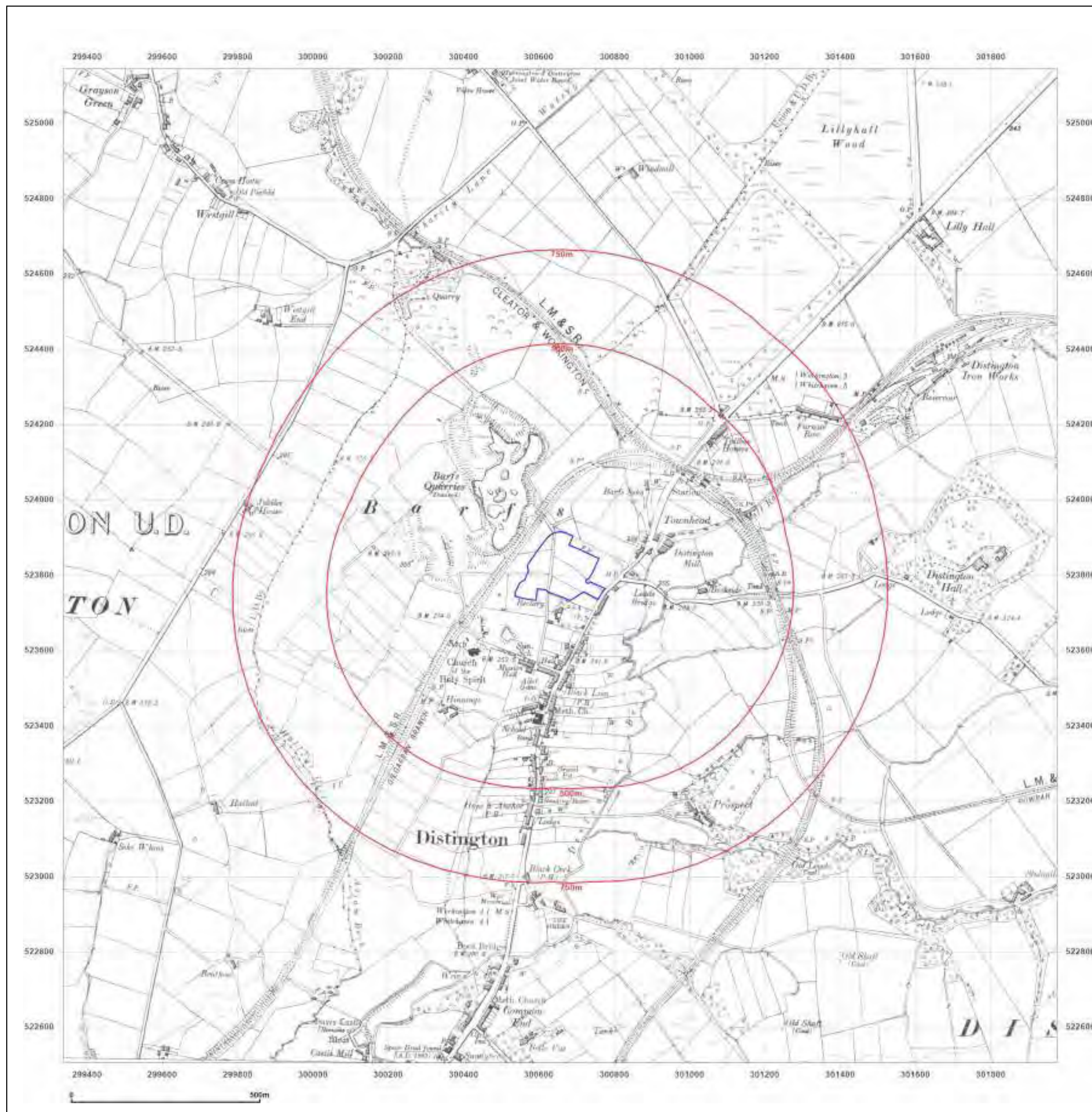


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Site Details:

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Client Ref: EMS_1065737_1334935
Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: County Series

Map date: 1923

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1864
 Revised 1923
 Edition N/A
 Copyright N/A
 Levelled N/A



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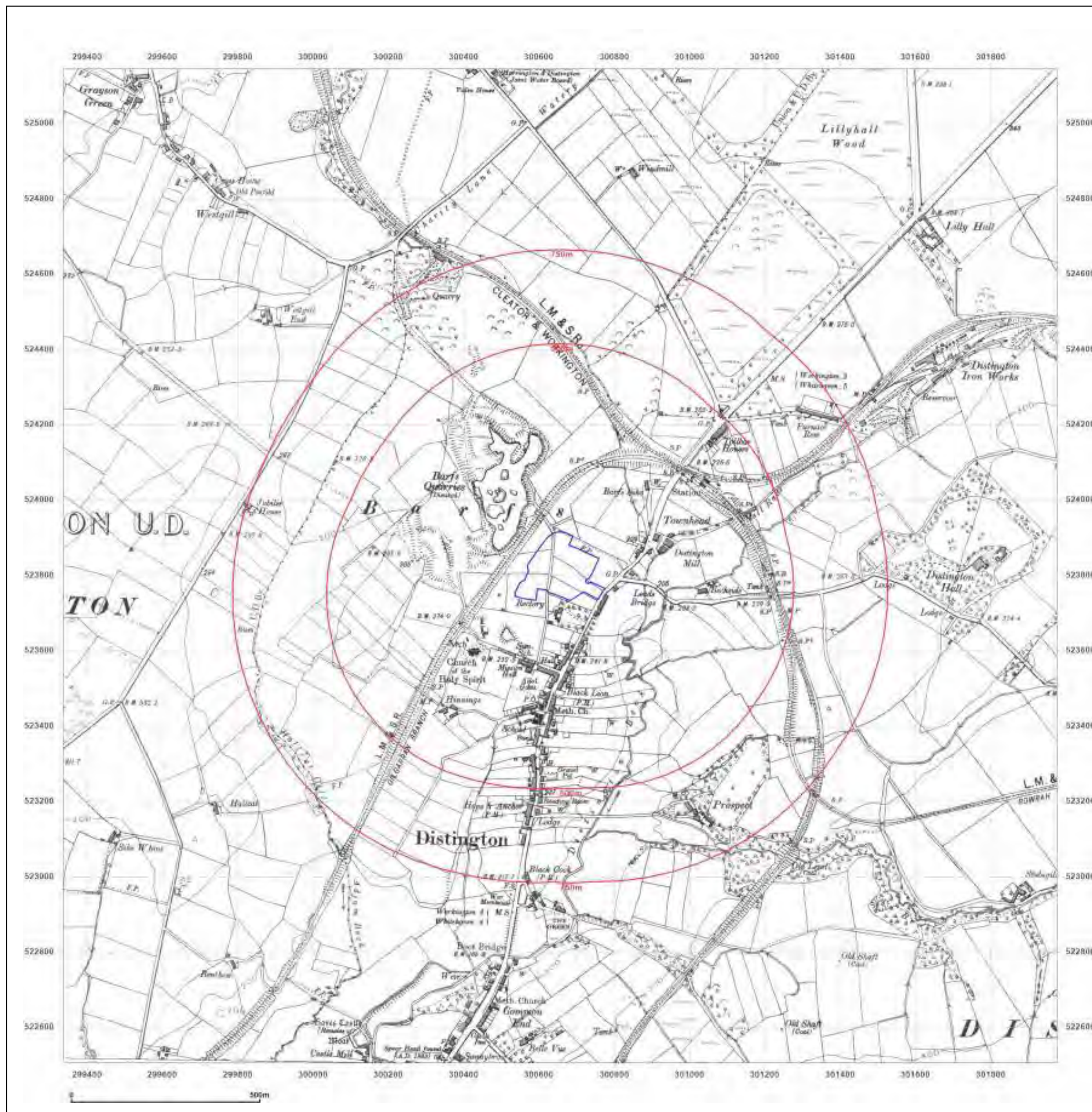


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Site Details:

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Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: County Series

Map date: 1923

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1864
Revised 1923
Edition N/A
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Levelled N/A



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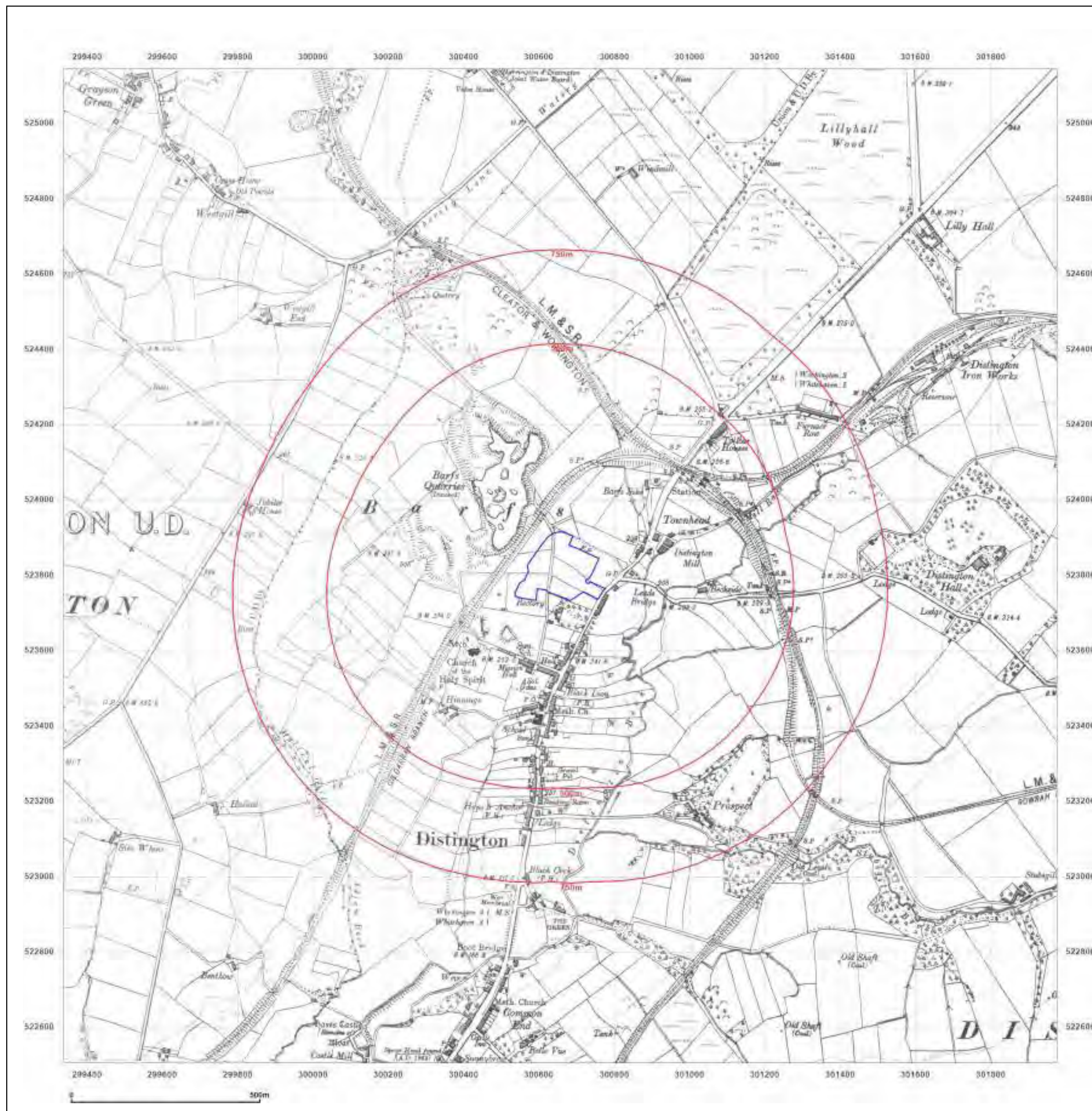


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Client Ref: EMS_1065737_1334935
Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1864
 Revised 1938
 Edition 1938
 Copyright N/A
 Levelled N/A

Surveyed 1863
 Revised 1938
 Edition 1938
 Copyright N/A
 Levelled N/A



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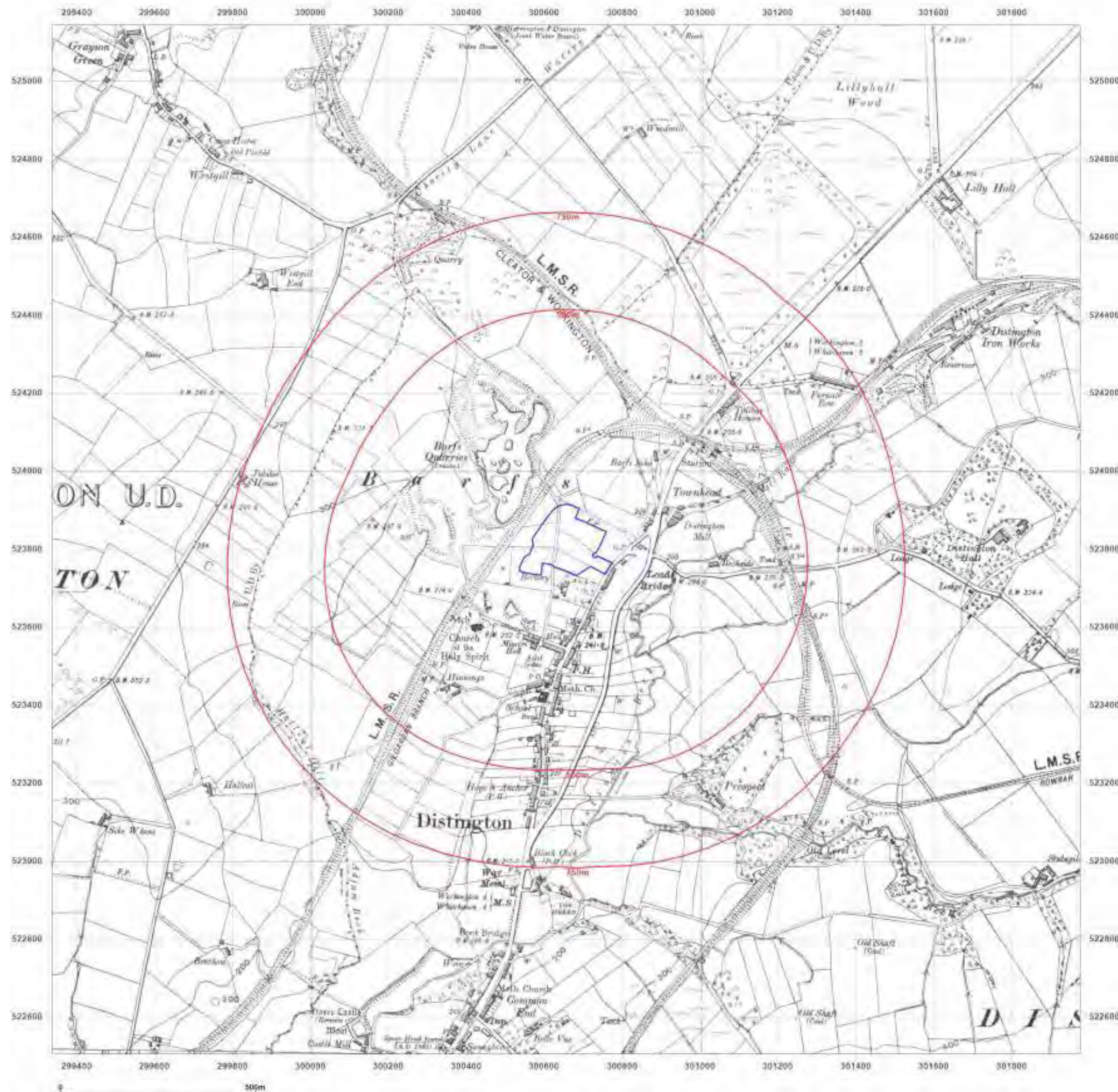


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Site Details:

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Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: County Series

Map date: 1947

Scale: 1:10,560

Printed at: 1:10,560



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 Revised 1947
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1863
 Revised 1947
 Edition N/A
 Copyright N/A
 Levelled N/A



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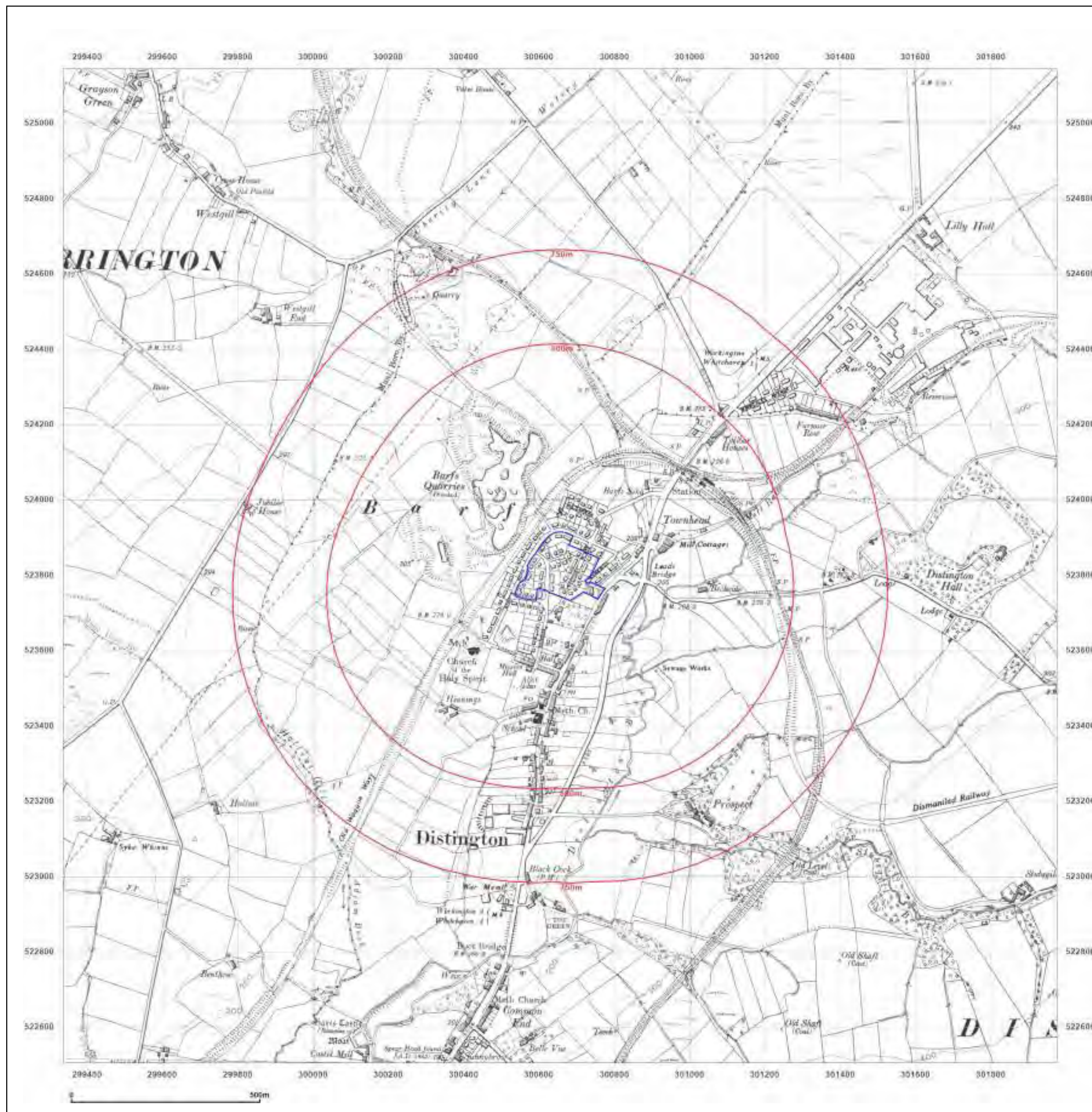


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Site Details:

unspecified

Client Ref: EMS_1065737_1334935
Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: Provisional

Map date: 1951-1956

Scale: 1:10,560

Printed at: 1:10,560



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

Surveyed 1951
Revised 1951
Edition N/A
Copyright N/A
Levelled N/A



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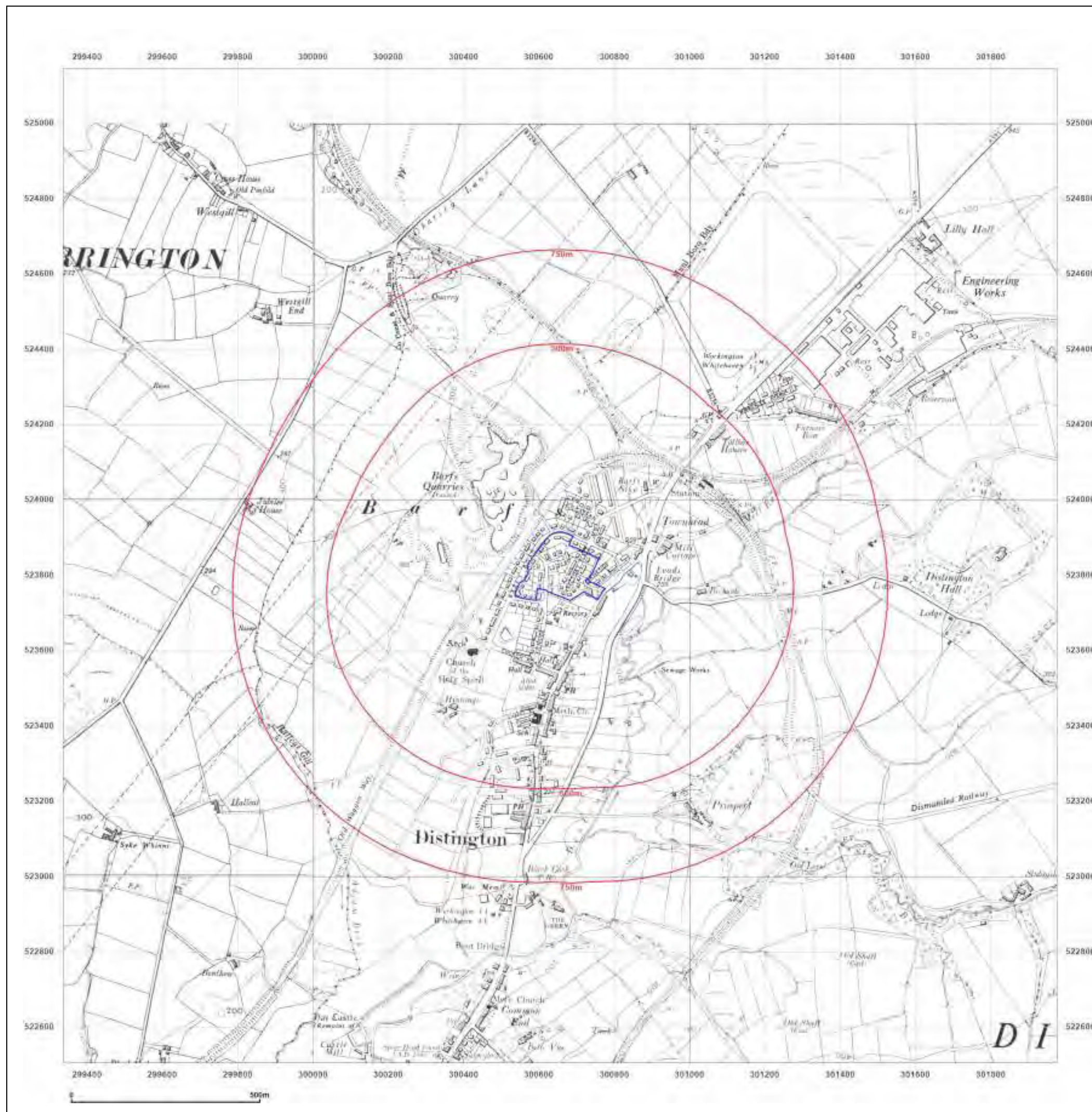


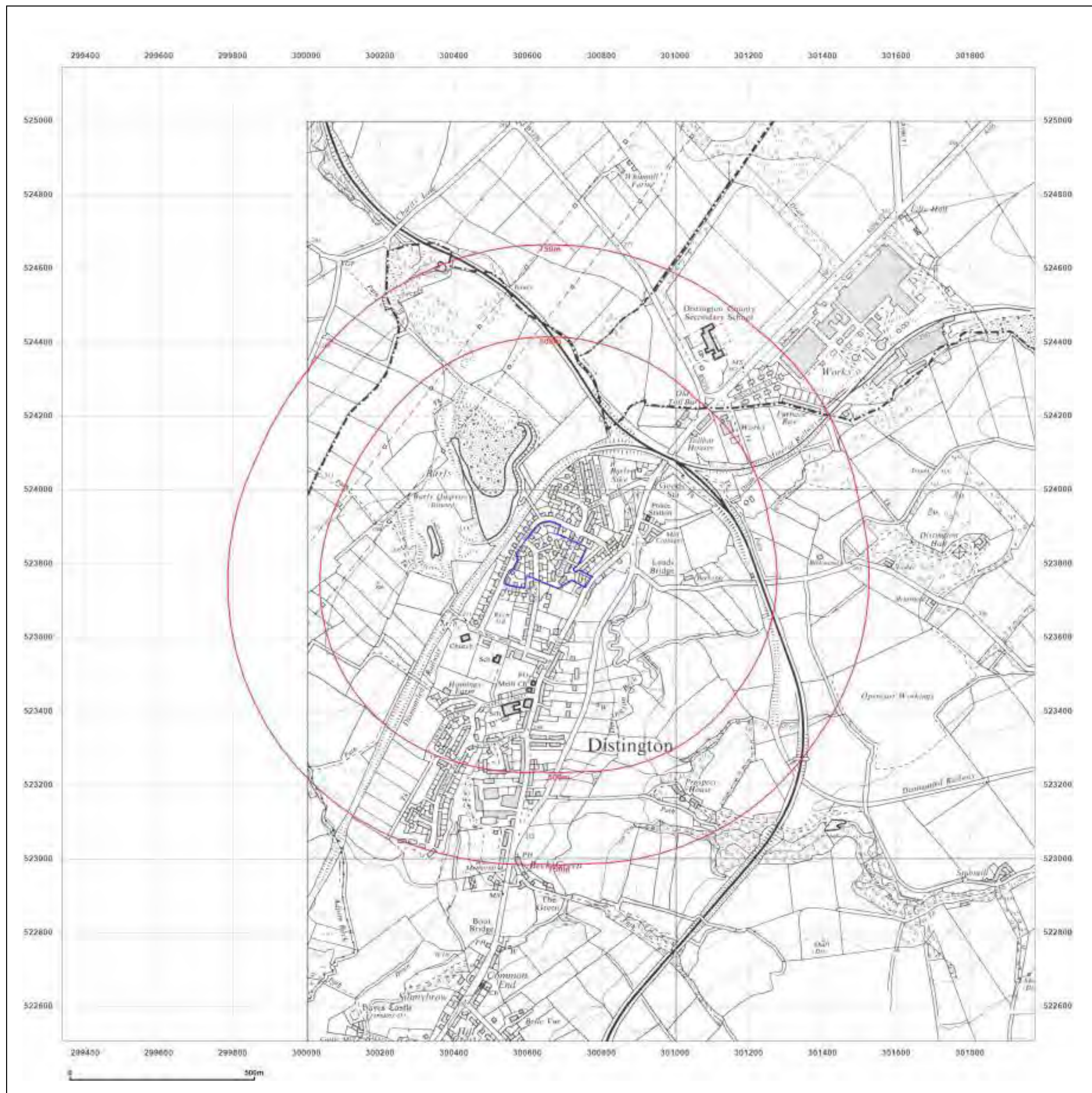
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Site Details:

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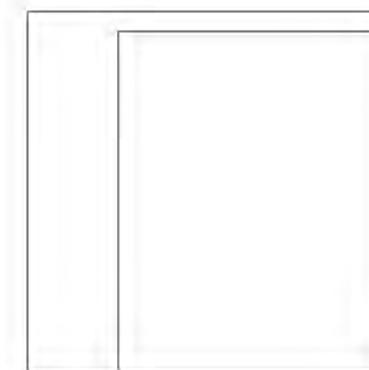
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Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: Provisional

Map date: 1967

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1967
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Edition N/A
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Site Details:

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Report Ref: EMS-1065737_1341838
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Map Name: National Grid

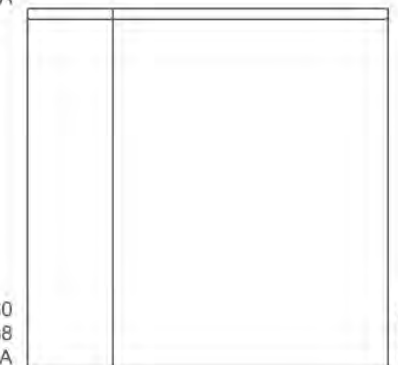
Map date: 1988-1991

Scale: 1:10,000

Printed at: 1:10,000



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



Surveyed 1960
Revised 1988
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1987
Revised 1991
Edition N/A
Copyright N/A
Levelled N/A



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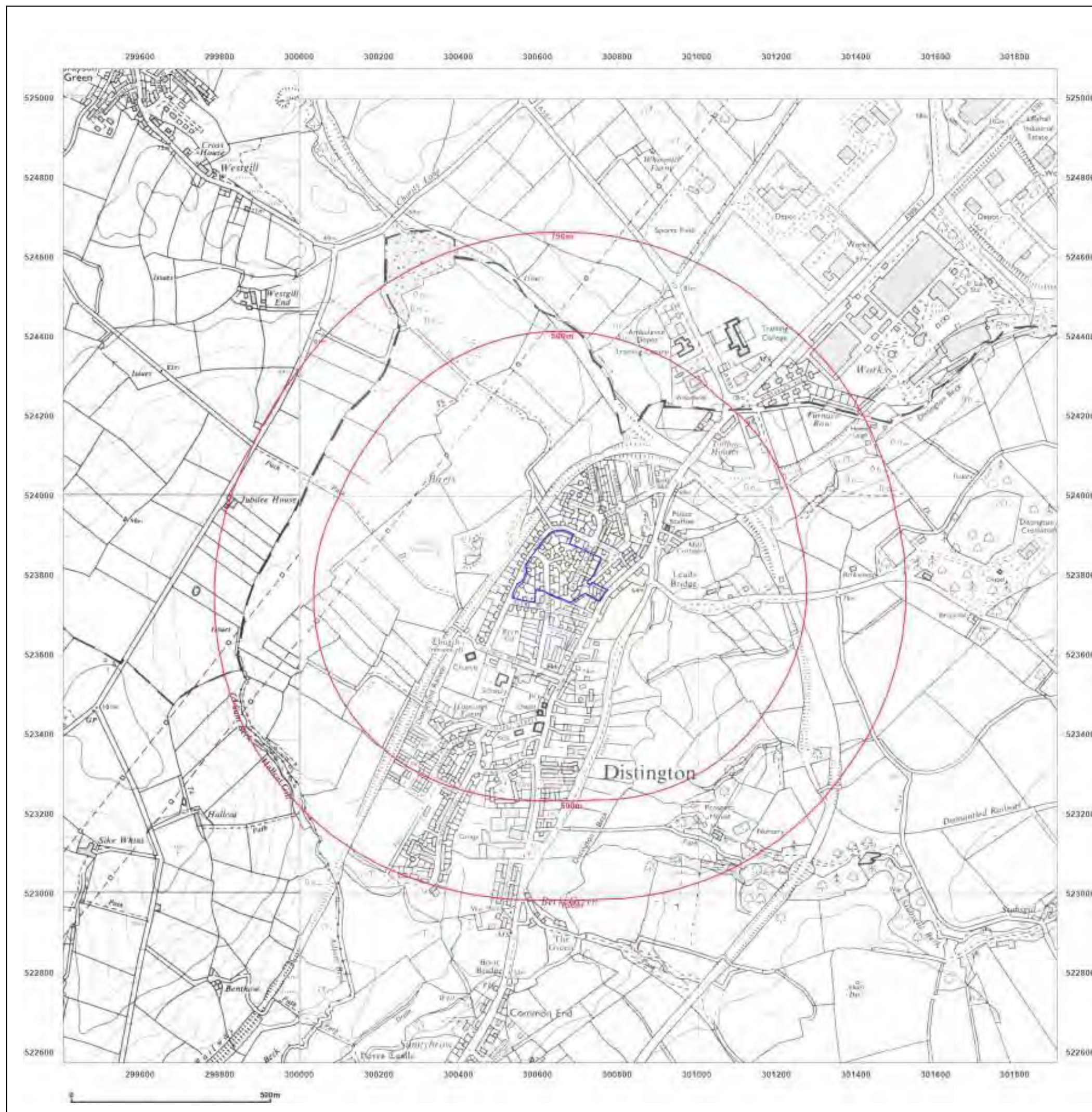


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Site Details:

unspecified

Client Ref: EMS_1065737_1334935
Report Ref: EMS-1065737_1341838
Grid Ref: 300655, 523824

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



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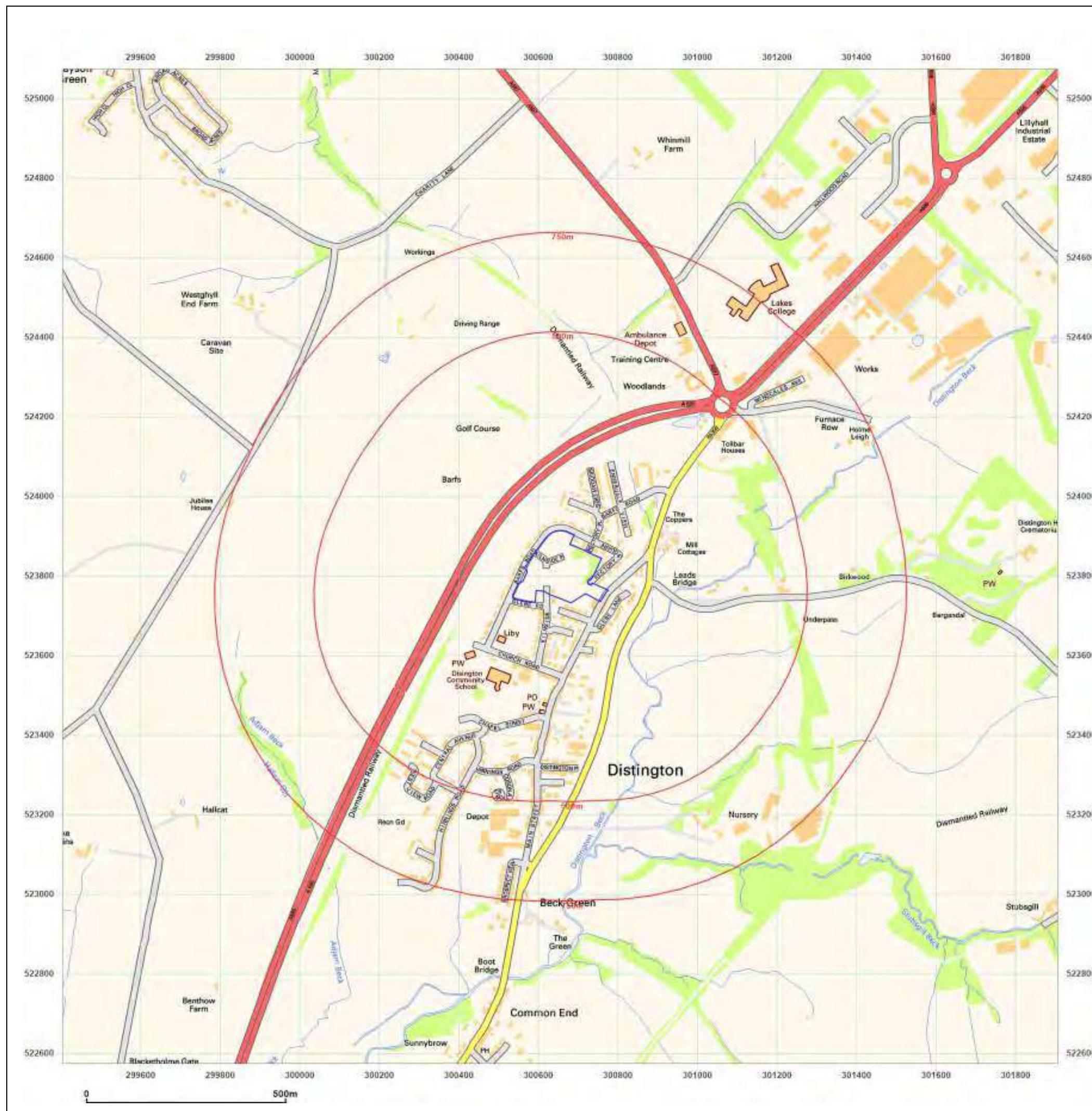


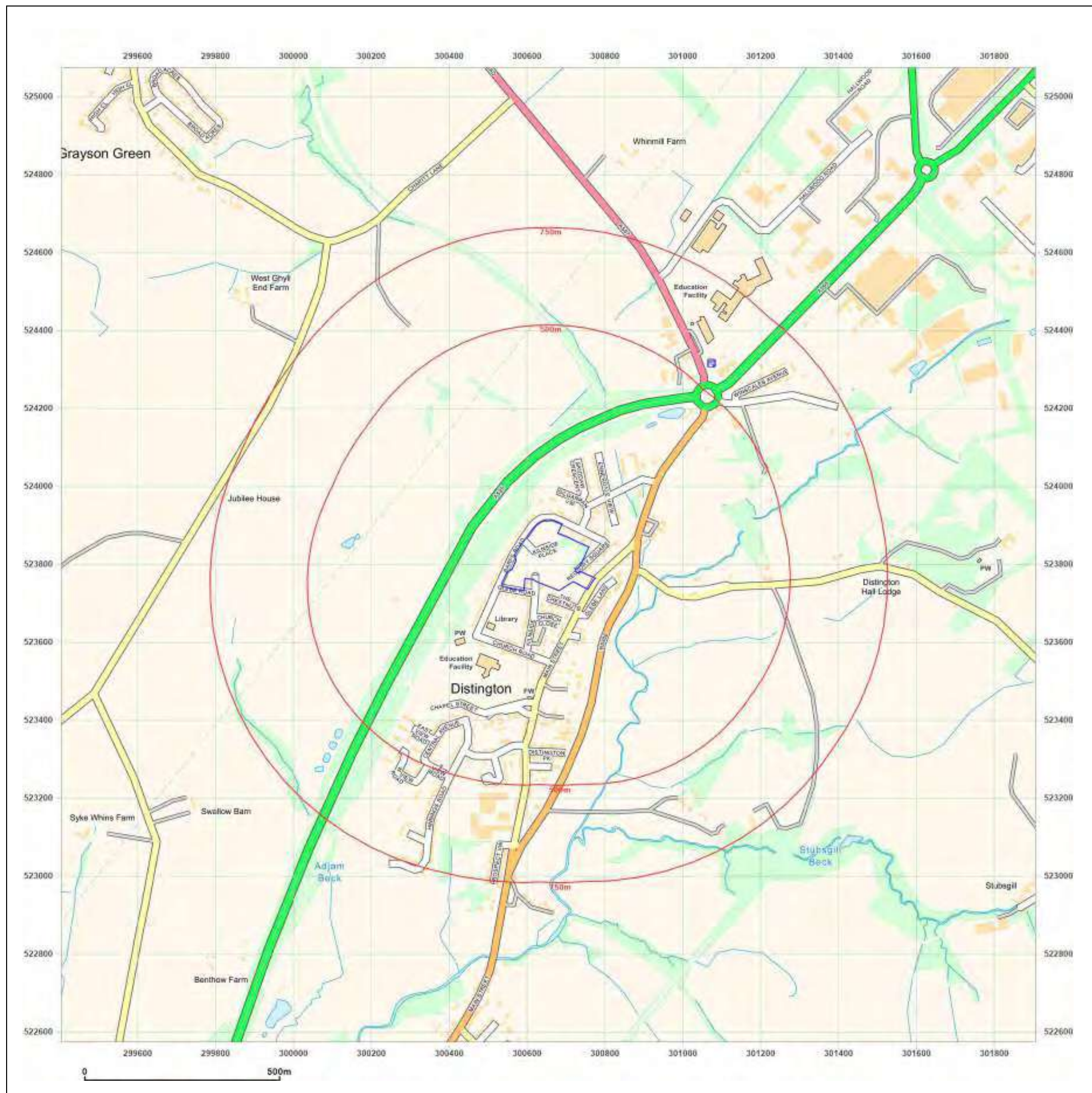
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Grid Ref: 300655, 523824

Map Name: National Grid

Map date: 2025

Scale: 1:10,000

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Appendix IV

- Mining Remediation Authority Consultants Coal Mining Report



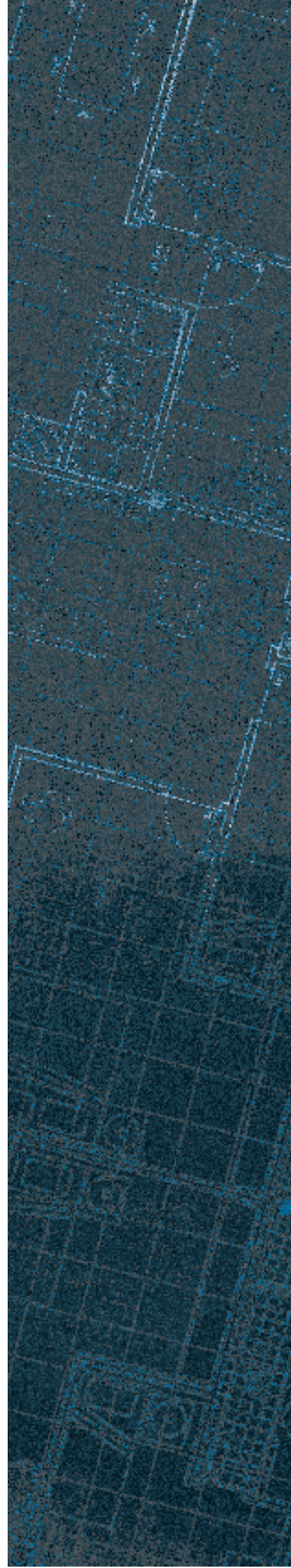
The Coal
Authority

Consultants Coal Mining Report

Barfs Road
Distington
Cumberland
CA14 5TG

Date of enquiry:	24 November 2025
Date enquiry received:	24 November 2025
Issue date:	24 November 2025

Our reference:	51003539953001
Your reference:	GEO2005-7005



Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

Andrew Hampson

Enquiry address

Barfs Road
Distington
Cumberland
CA14 5TG

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

reports@miningremediation.gov.uk



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

No past mining recorded.

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

None available.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices

The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Section 4 – Further information

Based on the responses in this report, no further information has been highlighted.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **email us at reports@miningremediation.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices

Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

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+44 (0)1623 637 000 (International)
reports@miningremediation.gov.uk



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