Land at Pendle Road, Clitheroe

Geo-environmental Phase 1 Preliminary Risk Assessment

May 2024

MÜLLER
PROPERTY GROUP

GEO-ENVIRONMENTAL CONSULTING ENGINEERS

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PENDLE MILL, CLITHEROE

Phase 1 - Preliminary Risk Assessment

Prepared for:

MÜLLER PROPERTY GROUP

Report Ref: BEK-22051-1 (Rev D)

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Project Quality Assurance Information Sheet

Site	Pendle Mill, Pendle Road, Clitheroe, Lancashire
Report Title	Phase 1 - Preliminary Risk Assessment
Report Status	Final
Report No	BEK-22051-1
Date	May 2024
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PROJECT NO: 22051

REPORT REF: BEK-22051-1

DATE: May 2024

REVISION STATUS / HISTORY

Rev	Date	Issue / Comment	Prepared	Checked
A	10 May 2022	Minor Amendments to Development Layout	D Emmott	M Buckley
B	25 May 2022	Minor Amendments	D Emmott	M Buckley
C	23 May 2024	Amended development plans	DE	MB
D	24 May 2024	Amended layout	DE	MB

GENERAL REPORT LIMITATIONS

BEK Enviro Limited (BEK) has prepared this report for the sole use of the client, showing reasonable skill and care, for the intended purposes as stated in the agreement under which this work was completed. The report may not be relied upon by any other party without the express agreement of the client and BEK. No other warranty, expressed or implied, is made as to the professional advice included in this report.

Where any data supplied by the client or from other sources have been used, it has been assumed that the information is correct. No responsibility can be accepted by BEK for inaccuracies in the data supplied by any other party. The conclusions and recommendations in this report are based on the assumption that all relevant information has been supplied by those bodies from whom it was requested.

No part of this report may be copied or duplicated without the express permission of BEK and the party for whom it was prepared. Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

Unless explicitly agreed otherwise, in writing, this report has been prepared under BEK's limited standard Terms and Conditions as included within our proposal to the Client.

The report needs to be considered in the light of the BEK proposal and associated limitations of scope. The report needs to be read in full and isolated sections cannot be used without full reference to other elements of the report and any previous works referenced within the report.

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1. INTRODUCTION

1.1 Appointment

1.1.1 BEK Enviro Limited (BEK) have been commissioned by Muller Property Group to prepare a Preliminary Risk Assessment for an area of land located at Pendle Mill, Pendle Road, Clitheroe (hereafter referred to as 'the site') to assess potential risks associated with contamination and ground gas with respect to the change of use to residential use.

1.1.2 The existing site location is presented on BEK Drawing No 22051-1, a copy of which is presented in Appendix E.

1.2 Proposed Development

1.2.1 This report has been prepared to support a planning application to construct a 75 bed care home building following demolition of the existing building on site. The new build will include a total of 75 bedrooms, a café bistro, landscaped garden areas and a number of car parking bays.

1.2.2 The current proposed development layout is shown on Figure 1 below. This has been extracted from ADG Architects – Proposed 75 Bed Care Home, Pendle Road, Clitheroe, Drawing No H.21.78 (9-) 3 (Revision L), a copy of which is presented in Appendix E.

Figure 1: Development Proposals

1.3 Objective & Scope of Work

1.3.1 This report provides the details of the works undertaken by BEK to assess the potential risks from contamination considering the change of use to residential.

1.3.2 To achieve the objective BEK will undertake the following:

- Carry out a site inspection and take photographs
- Review the available relevant background information for the site, including:
  - Recent Ordnance Survey Map
  - Drawings provided by Client
  - BGS Web Page
  - Site Specific GroundSure Reports
  - Site Specific Historical Maps
  - Coal Authority Interactive Map
  - Magic Maps
  - Zetica Unexploded Ordnance Risk Map
- Develop a preliminary conceptual site model in accordance with guidance to identify potentially significant pollutant linkages specific to the proposed development
- Establish areas of potential concern based on identified risks and/or potential risks
- Identify any actions required to assess or reduce the risks identified

1.4 Limitations

1.4.1 The conclusions and recommendations presented in this report are the result of our professional interpretation of the information currently available. BEK reserves the right to amend the conclusions and recommendations if further information becomes available.

1.4.2 However, it should be noted that much of the information has been derived from reports written by others and BEK takes no responsibility for the accuracy of that information. Notwithstanding the above, the reports reviewed have all been written by professional environmental consultants with a duty of care to provide relevant and accurate information.

1.4.3 The assessment of invasive plant species is outside the remit of this assessment.

2. SITE DESCRIPTION

2.1 Site Location

2.1.1 The development site is located to the north of Pendle Road in Clitheroe, Lancashire some 850 m east of the centre of Clitheroe and 12 km north-west of Burnley.

2.1.2 The National Grid Reference for the centre of the site is 374921, 441550. The site location and current layout is shown on BEK Drawing No 22051-1 and 22051-2 respectively, copies of which are presented in Appendix E.

2.2 Site Layout & Description

2.2.1 A site walkover/inspection was conducted by an engineer from BEK in April 2022. A selection of photographs showing the existing site layout is presented in Appendix D.

2.2.2 The site occupies an area some 0.4 hectares (4044 m^2) and is accessed from Pendle Road from the west which leads onto a tarmacked car parking/service yard area which is at a lower elevation than Pendle Road to the south.

2.2.3 The site is occupied by a number of buildings that are utilised as furniture shop and a warehouse used for storage and a clothing/sports shop business (see Figure 2).

***Figure 2**: Existing Uses of existing building*

2.2.4 A culverted watercourse (Shaw Brook) flows beneath the northern warehouse/storage building in an east/west orientation.

2.2.5 A series of photographs taken during the site walkover are presented in Appendix D.

2.3 Surrounding Land Use

2.3.1 The site is located in a predominantly residential area of Clitheroe with residential properties located to the south of the site, east and west of the site. To the north and north-east of the site there are grassed areas with more residential dwellings located to the north of the grassed areas.

3. SITE HISTORY

3.1 The history of the site has been established using historical OS maps supplied by Groundsures Enviro+GeoInsight Report. A selection of the historic maps and images reviewed are presented in Appendix A or can be found below. Aerial satellite imagery was sourced for the site history mapping. In addition, historical information has been sought from various sources on Google:

Google Search

3.2 The mill building on site was built as a brewery circa 1788 and was converted to a printworks in 1809, and became a sizing works after 1826. Some eight years later, in 1834, Benjamin Bulcock and James Smith purchased the site and by 1837 had erected a seven-storey spinning mill and weaving shed, known as Brewery Mill. The mill comprised a rectangular block (presumably the seven-storey spinning block, fronting Pendle Road) with the weaving shed to the rear, and a large mill pond to the south-east. The spinning block was destroyed entirely by fire in March 1896, although the weaving shed, containing 500 looms, was saved. The mill was reconstructed as a weaving mill after the fire, and re-equipped with 412 looms. A new 350hp steam engine manufactured by William Roberts & Sons of Nelson was installed in 1902. Textile manufacture art Brewery Mill ended in 1966.

1847 Map

3.3 The 1847 map shows that the site is occupied by mill buildings identified as 'Brewery Cotton Mill' with a Screening Well labelled in the north-east of the site. A Reservoir is located in the north of the site which flows into Shaw Brook which emerges from the north-west corner of the site. A mill pond/reservoir is located some 10 m east/south-east of the site. The area to the north, east and south is dominated by open fields with residential buildings located some 120 m west of the site and a brewery located some 245 m west of the site (see Figure 4).

1884

3.4 The 1884 map shows the site to be occupied by Brewery Mill (Cotton), however the Screening Well is no longer labelled. The Reservoir located in the north of the site appears to be slightly smaller and it appears that a small culvert links the reservoir to Shaw Brook. New residential development (Claremont House) is located some 120 m south-east and terraced housing is located some 120 m west of the site. Shaw Bridge Mill is located some 245 m west of the site (see Figure 4).

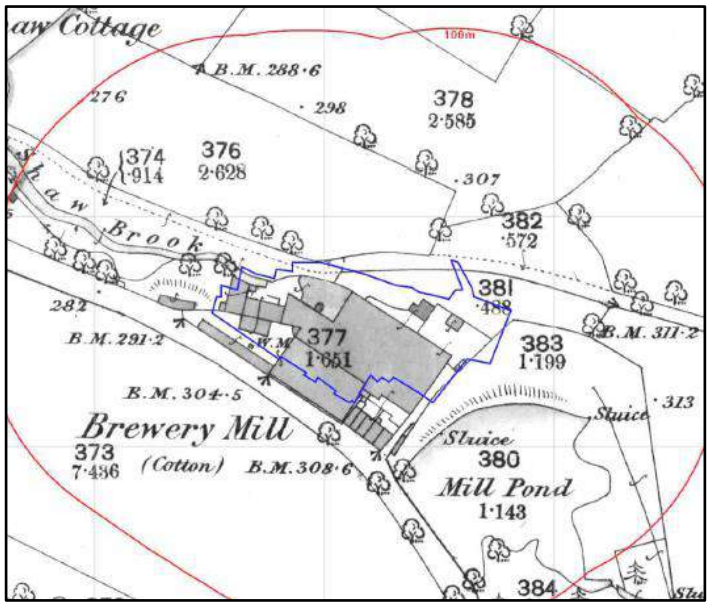


Figure 4: Extract from 1884 OS Map

1912

3.5 The 1912 map shows that the mill on site is now labelled as 'Claremont Mill' with a reservoir labelled in the north of the site and a chimney in the south adjacent to Pendle Road. The mill pond to the east is labelled as a reservoir. The brewery located some 245 m north-west of the site is labelled as 'Victoria Brewery' (see Figure 5).

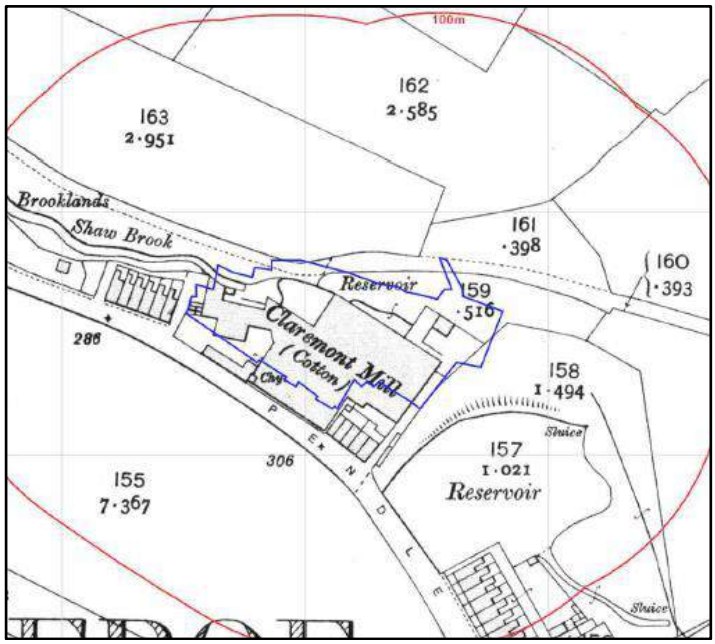


Figure 5: Extract from 1912 OS Map

1932

3.6 The 1932 map shows that the buildings on site remain relatively unchanged, however the mill building is now labelled as 'Pendle Mill (Cotton)'. There are no significant changes to the areas surrounding the site.

1965

3.7 The 1965 map shows that the mill building is now labelled as 'Cotton and Rayon Mill'. The reservoir/mill pond to the east of the site is now longer visible and marked as marsh ground (presumably infilled) and a Refuse Tip is shown some 90 m east of the site which may be associated with infilling the reservoir/mill pond. New residential development is located some 20 m south of the site and between 90 m and 250 m south of the site (see Figure 6).

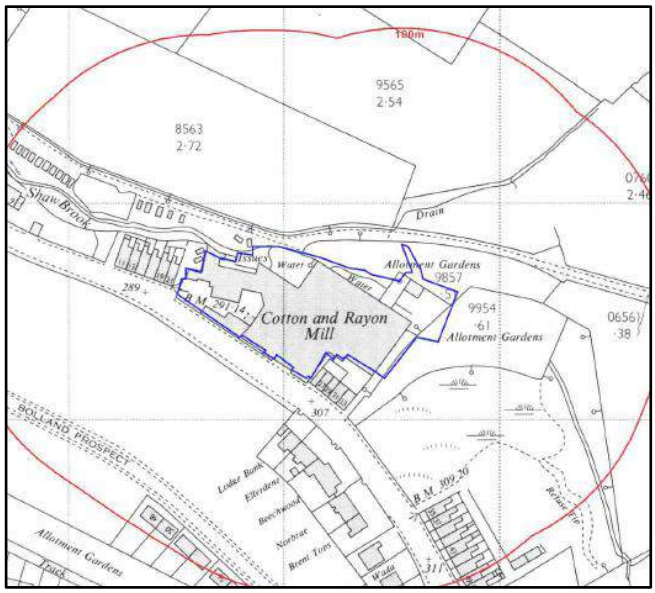


Figure 6: Extract from 1965 OS Map

1977

3.8 The 1977 map shows that the site remains relatively unchanged. The Refuse Tip located some 90 m east of the site is no longer marked as present. Additional residential development is located to the south of the site and an electrical substation is located some 100 m south of the site.

1990

3.9 The 1990 map shows that the site and the surrounding areas remain relatively unchanged.

2003

3.10 The 2003 map shows that the site remains relatively unchanged with the exception of the absence of the Reservoir in the north of the site (presumable infilled). A pond/reservoir/watercourse is still shown in the north of the site adjacent to the mill building (see Figure 7).

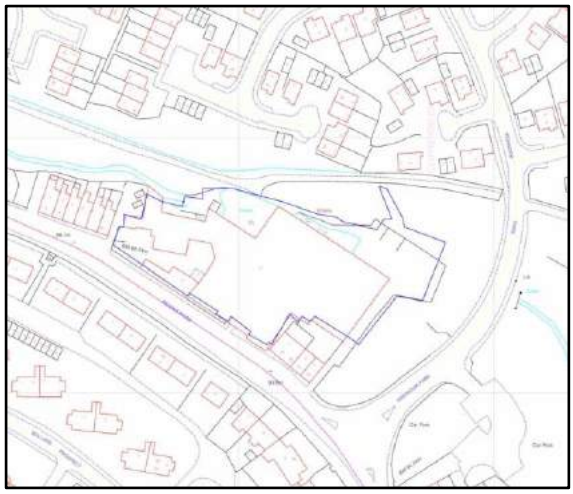


Figure 7: Extract from 2003 OS Map

2003 - 2015

3.11 The 2003 map shows that the site remains relatively unchanged. A pond/reservoir/watercourse is still shown in the north of the site adjacent to the mill building. Aerial Google Earth Mapping for the site from 2015 indicate that the buildings on site remain relatively unchanged however there are no areas of ponds/reservoirs to the north of the existing buildings with the area immediately north of the building shown to be covered by hardstanding. This was also confirmed during the site walkover (see Figure 8).

Figure 8: Extract from 2015 Google Earth Mapping

4. ENVIRONMENTAL SETTING

4.0.1 An Enviro+GeoInsight Report has been obtained from Groundsure and information provided in these reports has been used within this section. A copy of the report is presented in Appendix B.

4.1 Geology

4.1.1 The site geology is illustrated in the Enviro+GeoInsight Report which has sourced data from several sources including British Geological Society (BGS), BRITPITS database and the Coal Authority. A copy of the Enviro+GeoInsight Report is presented in Appendix B. A review of the Enviro+GeoInsight Report and BGS website indicates there are no BGS boreholes located within 250 m of the site.

Made Ground

4.1.2 According to the Enviro+GeoInsight Report there is no artificial ground (made ground) present beneath the site. Given the history of development at the site, the presence of made ground across the whole site is considered to be highly likely.

Superficial Geology

4.1.3 The Enviro+GeoInsight Report states that the underlying superficial geology comprises 'Devensian Till' (boulder clay) which has low permeability.

Bedrock

4.1.4 The Enviro+GeoInsight Report states that the underlying solid geology comprises of 'Clitheroe Limestone Formation and Hodder Mudstone Formation'.

Linear Features

4.1.5 The Enviro+GeoInsight Report shows that there is a bedrock fault (inferred) located some 130 m north-west of the site.

4.2 Mining & Ground Stability

4.2.1 Information presented on the Coal Authority interactive map indicates that the site is not located in an area that has been affected by coal mining. However, there could be localised small scale underground mining of vein minerals that may have occurred at the site. Given the long history of development on the site, any significant risks from mining are considered to be unlikely and are not considered further.

4.2.2 In addition to the above, the Enviro+GeoInsight Report provides hazard ratings associated with natural ground subsidence at the site, as summarised below:

Shrink-Swell Clay:	Very Low
Landslides:	Very Low/Low
Ground Dissolution of Soluble Rocks:	Very Low
Compressible Deposits:	Negligible
Collapsible Deposits:	Very Low
Running Sands:	Very Low

4.2.3 It can be seen from the above that the site is unlikely to be affected by natural ground instability.

4.3 Hydrogeology

4.3.1 The underlying superficial strata is classified by the Environment Agency as a 'Secondary Aquifer (undifferentiated)'. These formations are 'assigned where it is not possible to attribute either Category A or B to a rock type'.

4.3.2 The underlying bedrock is classified by the Environment Agency as a Secondary A Aquifer. 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. These are generally aquifers formerly classified as minor aquifers.

4.3.3 The Enviro+GeoInsight Report indicates the site is not located within a groundwater source protection zone and there are no groundwater abstractions located within 250 m of the site.

4.4 Hydrology

4.4.1 Shaw Brook is culverted beneath the north of the development site and generally flows in an east to west orientation.

4.4.2 There are no licensed discharges into controlled waters or surface water abstractions within 250 m of the site.

4.5 Contaminated Land & Landfill Activities

4.5.1 The information presented in the Enviro+GeoInsight Report indicates that there are no active or recent landfill or BGS historical landfill records within 250 m of the site. However, there is one historical landfill (LA/Mapping Records) located some 73 m south-east of the site dating from 1964. This is likely to represent infilling of the reservoir located to the east of the site and correlates with the historical mapping which shows a Refuse Tip in this location on the 1965 maps.

4.5.2 There are 17 waste exemptions located within 250 m, however it is noted that there are only two individual sites associated within these waste exemptions as shown below:

Location	Site	Category	Description
159 m SW	21 Standen Road, Clitheroe BB7 1JY	Treating/using waste exemption	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising Burning of waste as a fuel in a small appliance
187 m E	Highmoor Farm, Highmoor, Clitheroe BB7 1PN	Disposing/using of waste exemption	Deposit of waste from dredging of inland waters Burning waste in the open Spreading waste on agricultural land to confer benefit Storage of sludge

Table 1: Summary of Waste Exemptions within 250 m from the Site

4.5.3 There are two EA recorded Pollution Incidents within 250 m of the site as shown within the table below:

Location	Details	Impact
175 m S	Date: 11/04/2001 Pollutant: Atmospheric Pollutants and Effects	Water: Category 4 (No Impact) Land: Category 4 (No Impact) Air: Category 3 (Minor Impact)
176 m S	Date: 08/11/2001 Pollutant: Atmospheric Pollutants and Effects	Water: Category 4 (No Impact) Land: Category 4 (No Impact) Air: Category 3 (Minor Impact)

Table 2: Summary of Pollution Incidents within 250 m from the Site

4.5.4 The Enviro+GeoInsight Report has no recorded Part A(1), Part A(2) and IPPC Authorised Activities within 250 m of the site.

4.5.5 The Enviro+GeoInsight Report indicates that there 11 records of historical potentially contaminative land uses for the site or within 250 m of the site. Six of these are located on site and are labelled as Unspecified Mill and Cotton Mill dating from 1846-1971.

4.5.6 There are two current potentially contaminative land uses located on site identified as an unspecified works and an electricity substation. The electrical substation is located in the west of the site however the date of installation is unknown.

4.6 Sensitive Land Uses

4.6.1 The site is not affected by any of the ecological systems identified as a statutory receptor in the DETR Circular 01/2006.

4.7 Radon

4.7.1 The Enviro+GeoInsight Report reports that between '1% and 3% of homes are above the action trigger level' and that 'no radon protective measures are necessary' in the construction of new residential properties.

4.8 Unexploded Ordnance

4.8.1 The regional unexploded bomb risk map from Zetica (2014) indicates that the site is in an area at LOW risk from possible Unexploded Ordnance (UXO) resulting from the Second World War.

5. POTENTIAL POLLUTANT LINKAGES

5.1 General

5.1.1 This section identifies the potential contaminants of concern, sources, pathways and receptors that may be associated with the site based on its known history and the current condition and with respect to the re-development of the site for residential use.

5.1.2 This information is used to develop a conceptual model which is a qualitative description of potential sources of environmental pollutants, the pathways by which they are transported and the receptors:

i) Potential sources of contamination: these include any actual or potentially contaminating materials and activities, located either on or in the vicinity of the site

ii) Potential pathways for contamination migration: these comprise the routes or mechanisms by which contaminants may migrate from the source to the receptor including environmental migration pathways and human health exposure pathways

iii) Potential receptors of contamination: these include future land users, ecological systems, water resources and property.

5.2 Potential Contaminants of Concern

5.2.1 Based on the earliest available maps (1847) the site has been occupied by a large mill building since 1788. This was originally a brewery used as a brewery before becoming a printworks and a cotton mill. The earliest maps show a mill pond/reservoir located in the north of the site and a mill pond located to the east/south-east which was possibly infilled as a refuse tip circa 1965. The reservoir in the north of the site is absent from 2003 (presumably infilled) and this area is now covered with hardstanding.

5.2.2 The former activities on site could have resulted in contamination of the ground at the site.

5.2.3 Considering the historical development, made ground is considered to be present across the site (possible used to level the site prior to construction and to infill the reservoir in the north of the site). The nature of any made ground on site is unknown and it may contain contaminants of concern.

5.2.4 The key potential contaminants of concern associated with made ground/historical activities are presented below:

General Contaminants Associated with Made Ground/Mill	
Arsenic	Zinc
Cadmium	Sulphate
Chromium	Cyanide
Copper	Phenols
Lead	Polycyclic Aromatic Hydrocarbons
Mercury	Total Petroleum Hydrocarbons
Nickel	Asbestos
Selenium	pH

Table 3: Potential Contaminants of Concern

5.2.5 It should be noted that the above list represents a broad range of potential contaminants of concern. Additional contaminants of concern may be present if ground conditions differ from those anticipated.

5.2.6 Considering the long term industrial use, potential contaminants of concern, infilling of reservoirs on and off site and likely significant thickness of made ground at the site, potential risks from ground gas have been identified and will need to be further assessed.

5.3 Potential Pathways

5.3.1 The pathways through which contaminants may reach receptors are in part dependent by the nature and behaviour of the contaminant and the intended end use of the site.

5.3.2 The following potential pathways have been identified with respect to the existing site condition, the environmental setting and the re-development of the site to residential; all of which are assessed in the conceptual model:

- Ingestion of contaminated soil/home grown vegetables (soft landscaped areas only)
- Inhalation of contaminative dust/organic vapours
- Inhalation of ground gas
- Dermal contact (construction workers and soft landscaped areas only)
- Dissolution or suspension (leaching) of contaminants into pore waters affecting plant growth
- Dissolution or suspension (leaching) of contaminants from site soils leading to lateral migration within perched waters to off-site receptors. Potential significant pathways include more permeable layers within the made ground/natural strata, underground services and piles/foundations.

- Dissolution or suspension (leaching) of contaminants from site soils leading to contamination of controlled waters.

- Buildings affected by direct contact with elevated concentrations of sulphate and/or extreme pH.

5.4 Receptors

5.4.1 Potential site-specific receptors that may be affected by contamination at the site are listed below:

Future Site Users

5.4.2 Future occupants of the site could be at risk from contamination present at the site.

5.4.3 Potential risks are associated with ingestion of soil as well as inhalation of contaminated dust and or asbestos and dermal contact with contaminants of concern. These risks are all associated with the soft landscaped areas of the new development.

5.4.4 Potential risks exist with respect to the indoor inhalation of ground gas and organic vapours.

Construction Workers

5.4.5 The primary risks to construction workers are associated with shallow excavations as asbestos could be present. Asbestos fibers (if present) can be released into the atmosphere during earthworks in the yard area of the development.

5.4.6 Standard personal protective equipment and site specific risk assessments and method statements should reduce risks associated with other contaminants of concern due to short exposure duration.

Off Site Receptors

5.4.7 Off site receptors include nearby home owners and employees. Human health could be at risk if asbestos fibres are released during the re-development.

Flora

5.4.8 Heavy metals can be phytotoxic and if present can represent a potential risk to flora in the garden areas.

Buildings & Services

5.4.9 Risks to buildings (concrete) can occur due to elevated concentrations of sulphate in the shallow ground and extreme pH.

5.4.10 The integrity of service pipes can be affected by concentrations of organic contamination.

Controlled Waters

5.4.11 Shaw Brook is culverted through the site and represents a potential significant receptor.

5.4.12 Superficial deposits are classified as a Secondary Aquifer (undifferentiated). This stratum is relatively impermeable and any water trapped/held within the deposits are not considered to represent a sensitive receptor.

5.4.13 The underlying bedrock is classified as a Secondary A Aquifer and is unlikely to be impacted due to the presence of laterally continuous Boulder Clay which will inhibit vertical migration of contamination to the underlying bedrock.

5.4.14 The site is not located within a Source Protection Zone and there are no groundwater abstractions located within 250 m of the site.

5.4.15 With respect to the above, the potential risks to groundwaters are not considered further, however Shaw Brook could be potential significant receptor.

5.5 Preliminary Conceptual Model

5.5.1 The identified potential sources of contaminants, pathways and receptors have been assessed to establish plausible pollutant linkages. All potentially significant pollutant linkages are detailed in Table B, in Appendix C.

5.6 Potentially Significant Pollutant Linkages

5.6.1 A number of possible 'significant pollutant linkages' have been identified associated with the site.

5.6.2 Potential risks have been identified to the harm of the health of humans and/or domestic pets both on and off site due to the potential for direct contact with contaminants in the made ground and the ingestion of contaminated soil/dust (link 1). This pollutant linkage is only applicable in the soft landscaped areas of the site.

5.6.3 There is also the possibility of windblown particulates being inhaled by people/animals both on site and off site (link 2).

5.6.4 Human health could be at risk by the indoor inhalation of ground gas (link 3) and/or volatile organic compounds migrating into properties on site (link 4).

5.6.5 Property (including services and fauna) could be affected by direct contact to high concentrations of contaminants (link 5).

5.6.6 Dissolution or suspension (leaching) of contaminants from site soils leading to lateral migration within perched waters to off-site receptors (link 6).

5.6.7 Site investigation is required to identify site specific conditions and assess the risks associated with each identified plausible pollutant linkage.

6. RECOMMENDATIONS

6.1 Based on the findings of the Preliminary Risk Assessment herein, a number of potential risks associated with contamination have been identified with respect to the proposed change of use to residential.

6.2 Risks have been identified to human health and property (including services) and surface water quality. Site investigation is required to determine shallow ground conditions and quantify the potential risks identified.

6.3 Site investigation is also recommended to assess ground conditions to provide recommendations for foundation design.

6.4 BEK recommends that the following works should be undertaken:

Pre-demolition Asbestos Survey

6.5 Due to their age it is recommended that the existing mill building on site should be subject to an asbestos survey and any asbestos should be removed prior to demolition and clearance.

Site Investigation

6.6 The investigation should comprise the drilling of a series of boreholes across the site (ideally following clearance of the existing building) to characterise the shallow ground conditions across the site. Boreholes will need to be shallow (WS Boreholes) and deeper (CP Boreholes) to provide a full geo-environmental assessment of the ground conditions. The investigation should target key areas as well as providing widespread information for the ground conditions across the site to prove nature and thickness of any made ground present and characterise the natural strata.

6.7 In-situ strength tests (shear vane/SPTs) will be carried out during the site investigation works to provide additional geotechnical information to inform foundation design.

6.8 Gas monitoring wells will need to be installed (minimum 4) in selected boreholes to facilitate a ground gas risk assessment.

6.9 All site investigation works are to be supervised by an experienced engineer who will instruct the recovery of representative samples for laboratory testing. All samples will be stored in appropriate sampling vessels dispatched to the laboratory within 24 hours. Samples for chemical testing should be placed in a precooled cool box. The testing schedule will be determined following a review of the ground conditions encountered.

6.10 Samples from upstream and downstream in Shaw Brook should also be recovered to inform a Tier 1 controlled water risk assessment.

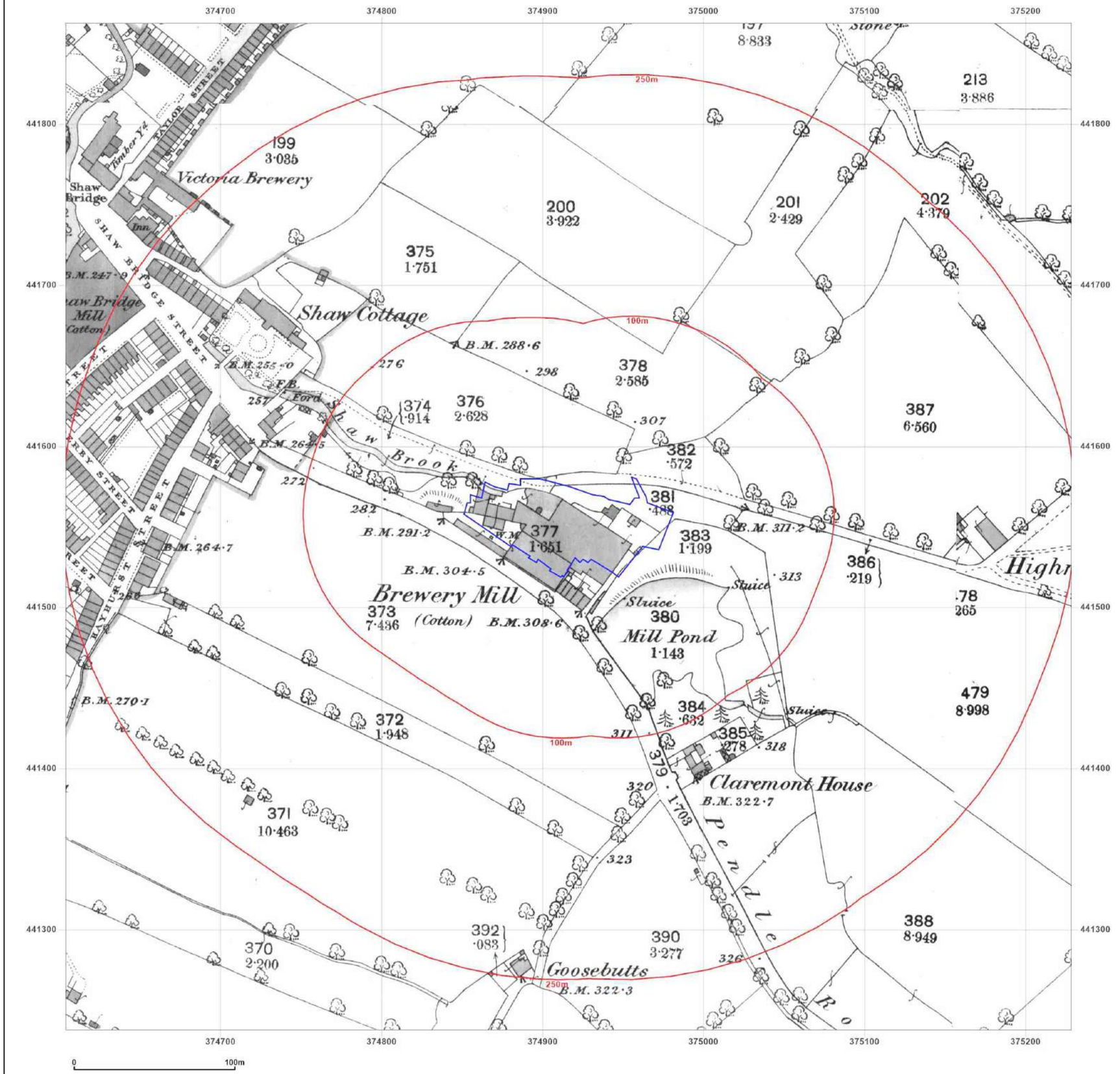
6.11 The investigation findings will be assessed as part of a quantitative risk assessment to amend the conceptual site model and identify any potential significant pollutant linkages. The investigation data will also be assessed to provide recommendations for foundation design.

6.12 In addition, information on waste soil classification, water pipe specification and concrete specification can be determined.

6.13 If required, the investigation should include soakaway testing to inform surface water drainage options.

APPENDIX A

Historical OS Maps



Groundsure INSIGHTS

Site Details:

WORTHINGTON BROUGHAM FURNITURE LTD, PENDLE MILL, PENDLE ROAD, CLITHEROE, BB7 1JQ

Client Ref: Pendle_Mill
Report Ref: GS-8645412
Grid Ref: 374916, 441550

Map Name: County Series
Map date: **1884**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1884
Revised 1884
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1884
Revised 1884
Edition N/A
Copyright N/A
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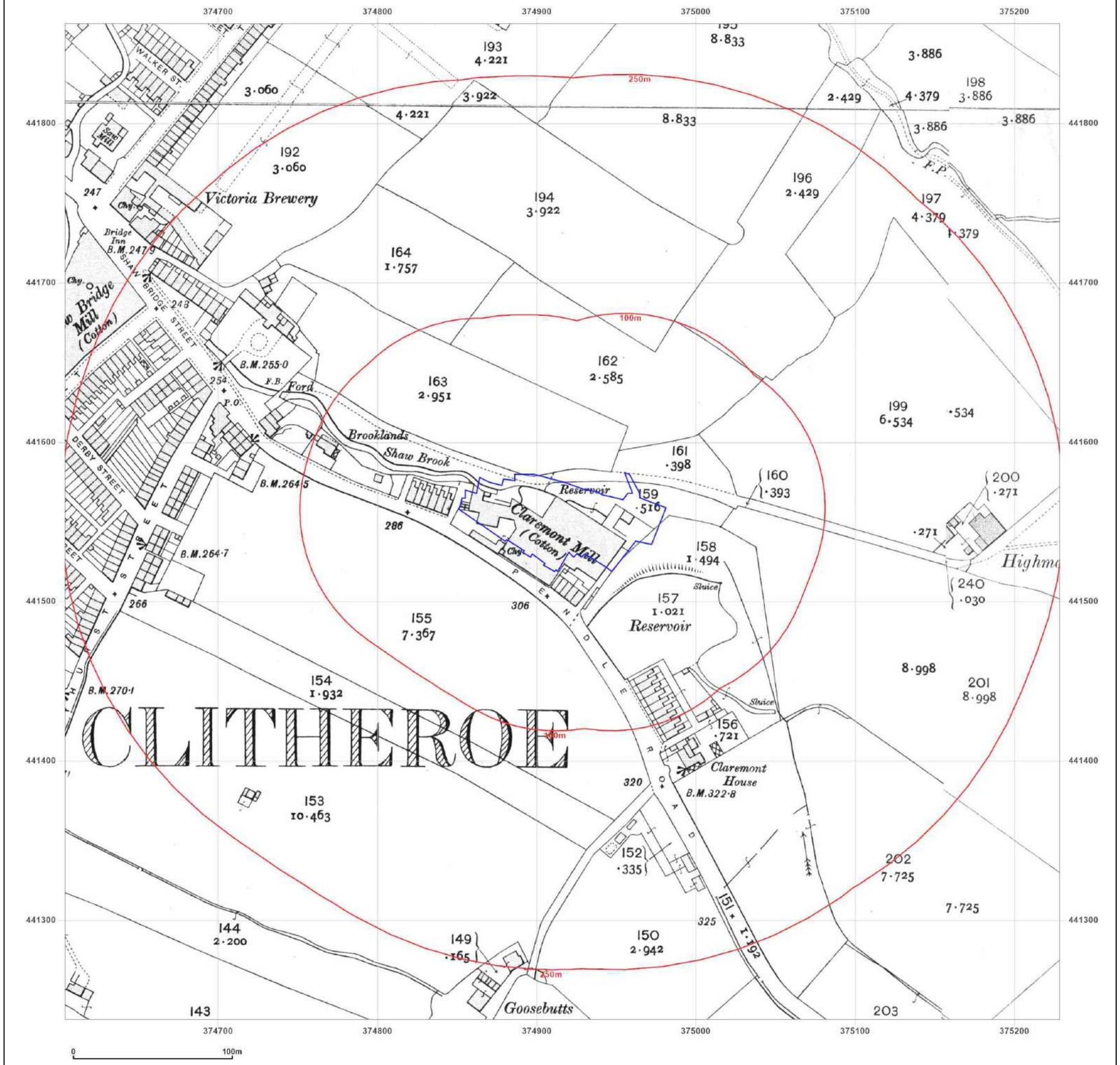
Production date: 04 April 2022

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



Groundsure INSIGHTS

Site Details:

WORTHINGTON BROUGHAM FURNITURE LTD, PENDLE MILL, PENDLE ROAD, CLITHEROE, BB7 1JQ

Client Ref: Pendle_Mill
Report Ref: GS-8645412
Grid Ref: 374916, 441550

Map Name: County Series
Map date: **1912**
Scale: 1:2,500
Printed at: 1:2,500

N
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Surveyed 1912
Revised 1912
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1912
Revised 1912
Edition N/A
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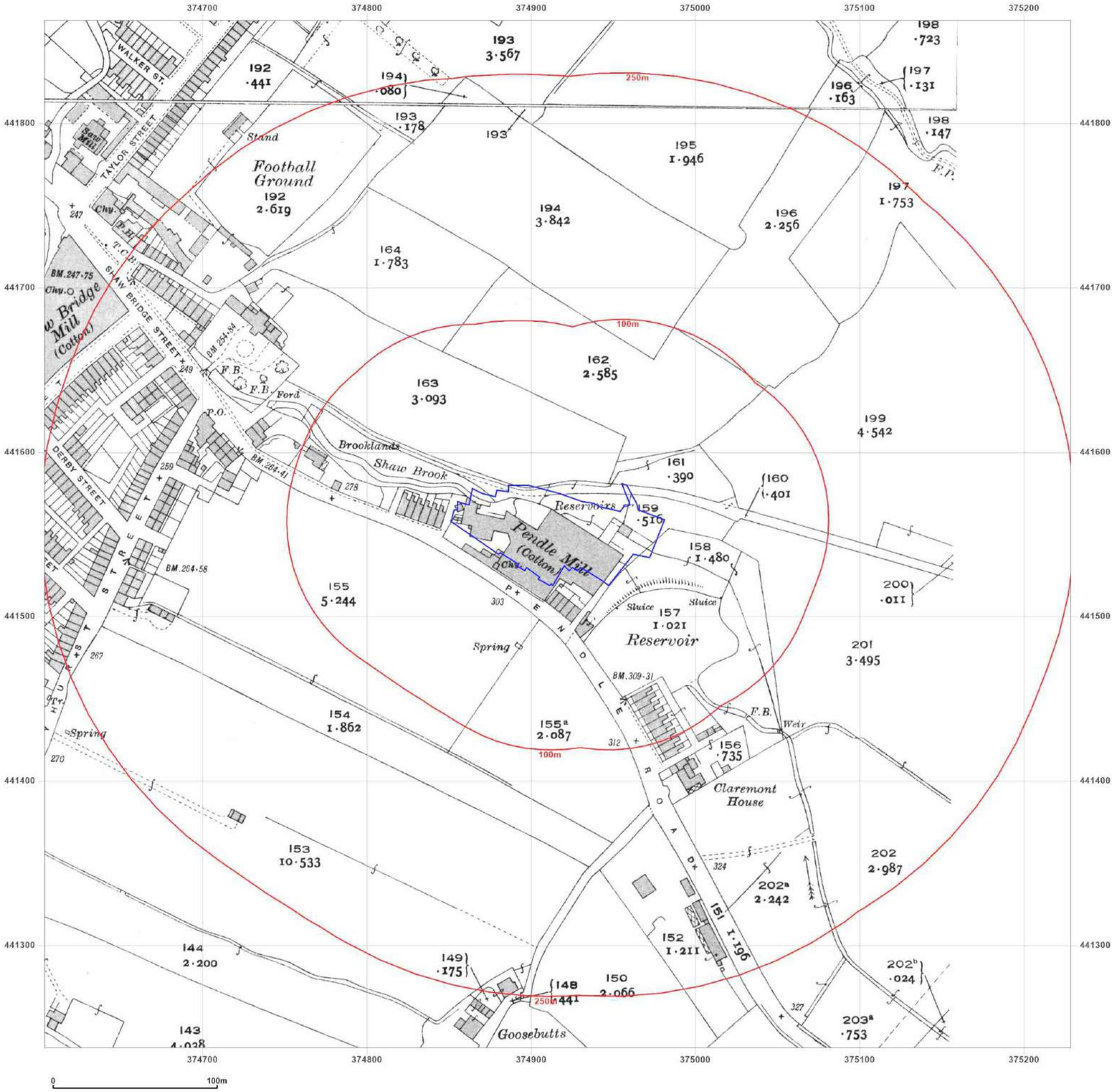

Groundsure INSIGHTS

Site Details:

WORTHINGTON BROUGHAM FURNITURE LTD, PENDLE MILL, PENDLE ROAD, CLITHEROE, BB7 1JQ

Client Ref: Pendle_Mill
Report Ref: GS-8645412
Grid Ref: 374916, 441550

Map Name: County Series
Map date: **1932**
Scale: 1:2,500
Printed at: 1:2,500

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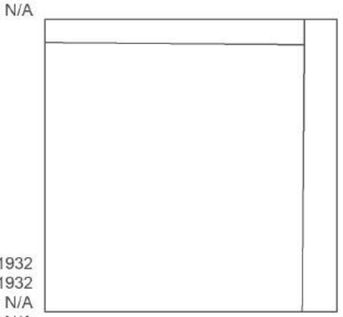
Surveyed 1932
Revised 1932
Edition N/A
Copyright N/A
Levelled N/A



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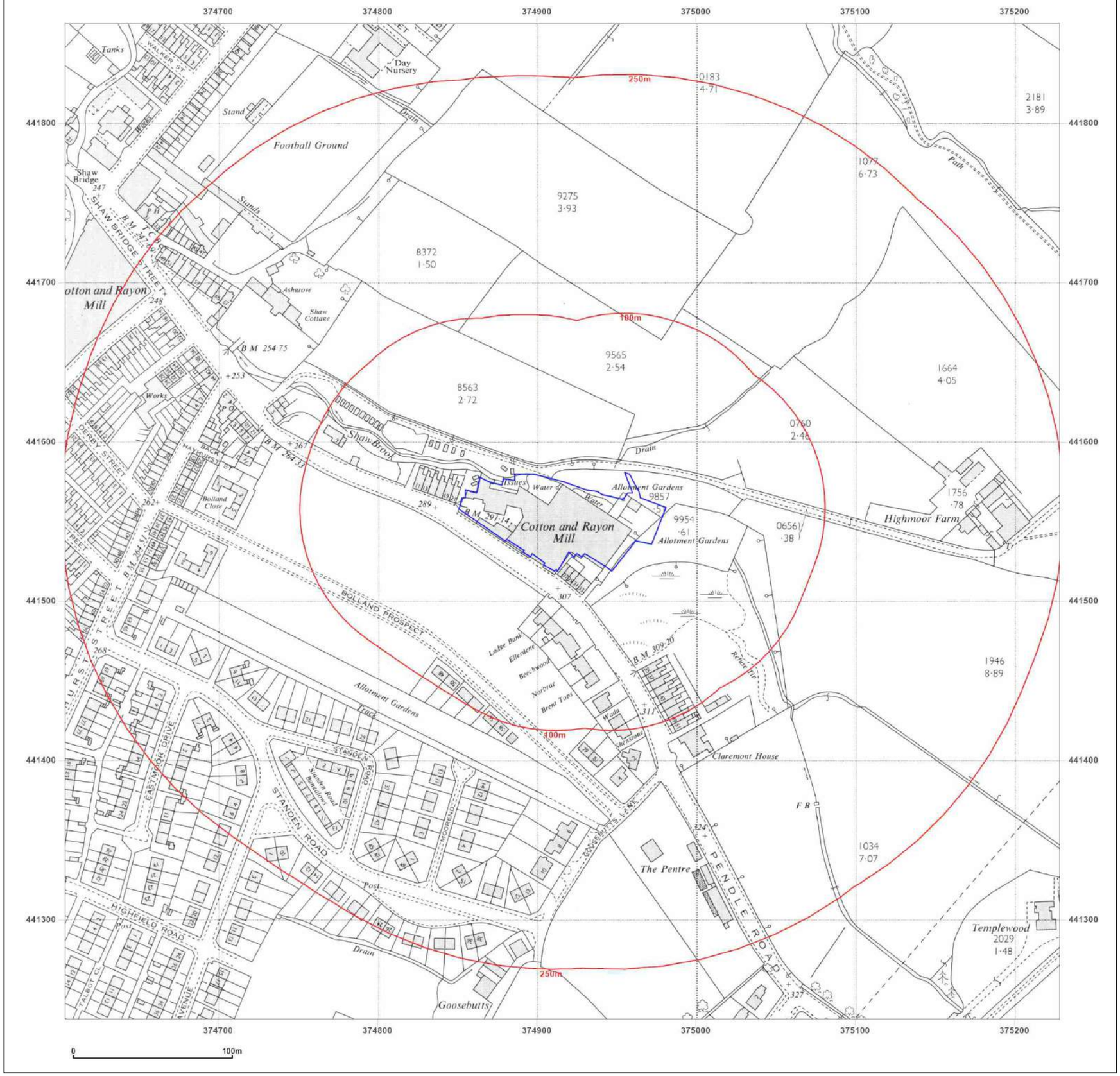

Groundsure INSIGHTS

Site Details:

WORTHINGTON BROUGHAM FURNITURE LTD, PENDLE MILL, PENDLE ROAD, CLITHEROE, BB7 1JQ

Client Ref: Pendle_Mill
Report Ref: GS-8645412
Grid Ref: 374916, 441550

Map Name: National Grid

Map date: **1965**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1964
Revised 1964
Edition N/A
Copyright 1965
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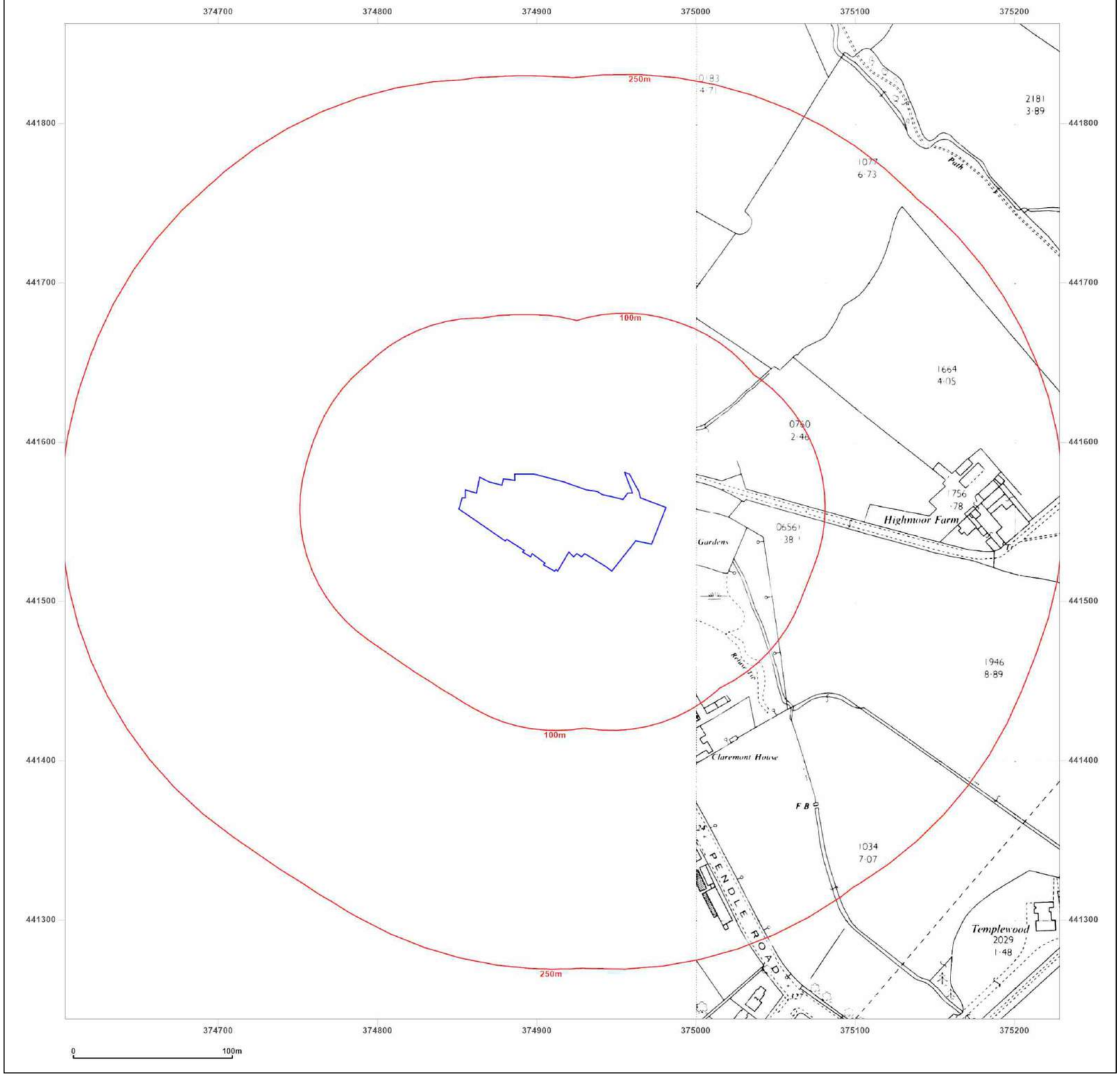

Groundsure INSIGHTS

Site Details:

WORTHINGTON BROUGHAM FURNITURE LTD, PENDLE MILL, PENDLE ROAD, CLITHEROE, BB7 1JQ

Client Ref: Pendle_Mill
Report Ref: GS-8645412
Grid Ref: 374916, 441550

Map Name: National Grid

Map date: **1965**

Scale: 1:2,500

Printed at: 1:2,500

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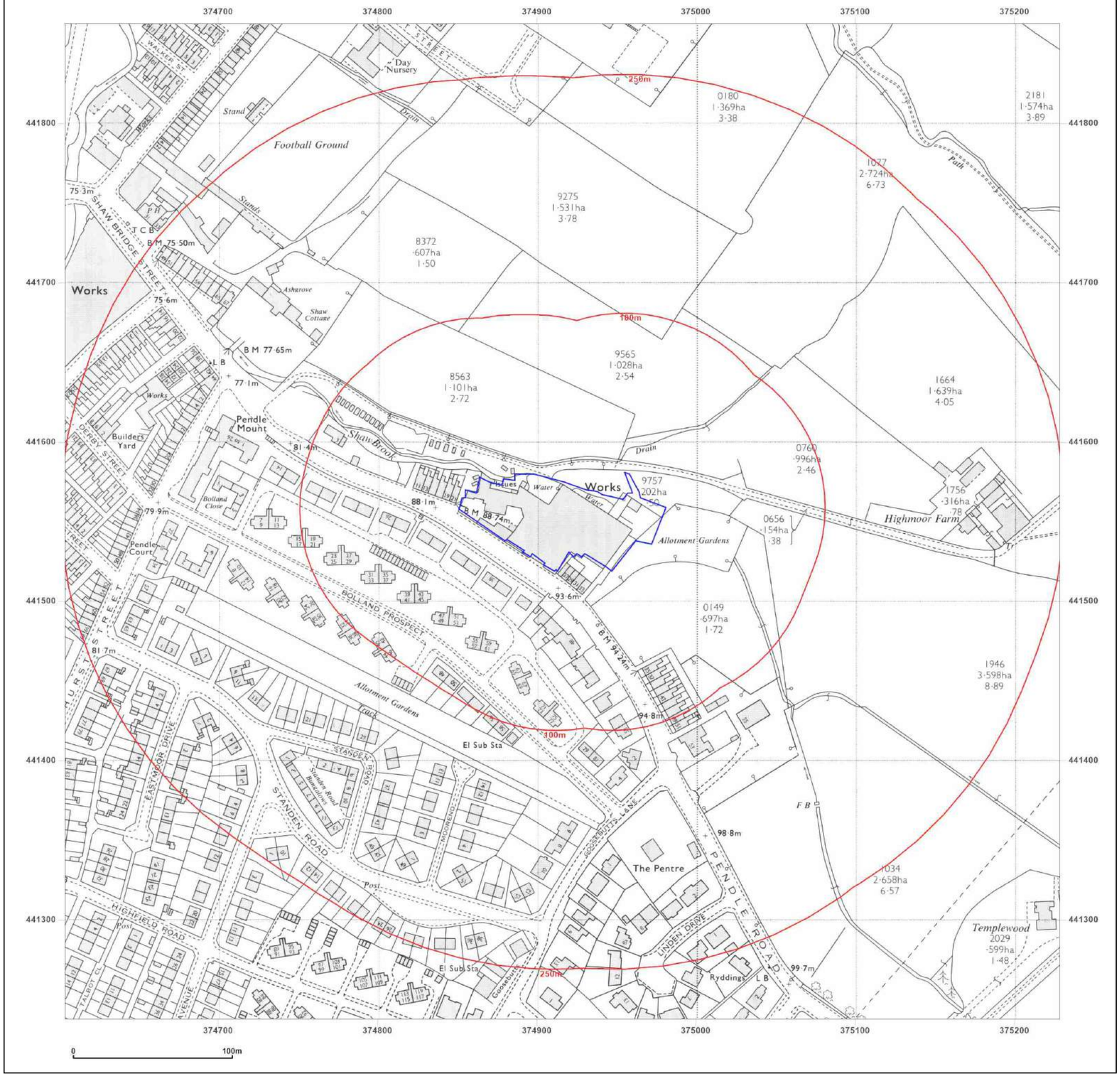

Groundsure INSIGHTS

Site Details:

WORTHINGTON BROUGHAM FURNITURE LTD, PENDLE MILL, PENDLE ROAD, CLITHEROE, BB7 1JQ

Client Ref: Pendle_Mill
Report Ref: GS-8645412
Grid Ref: 374916, 441550

Map Name: National Grid

Map date: **1977**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1976
Revised 1976
Edition N/A
Copyright 1977
Levelled 1962

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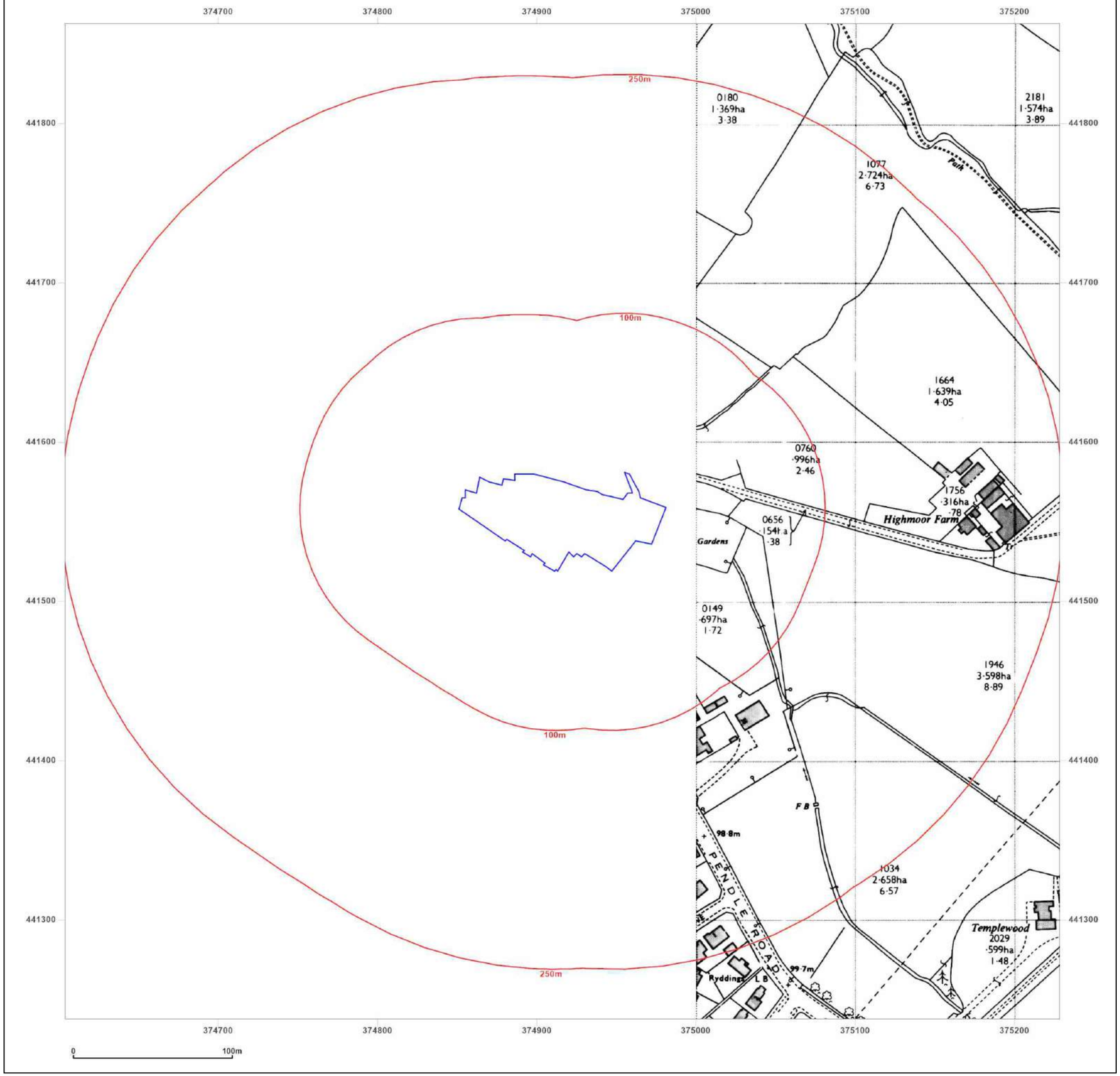

Groundsure INSIGHTS

Site Details:

WORTHINGTON BROUGHAM FURNITURE LTD, PENDLE MILL, PENDLE ROAD, CLITHEROE, BB7 1JQ

Client Ref: Pendle_Mill
Report Ref: GS-8645412
Grid Ref: 374916, 441550

Map Name: National Grid

Map date: **1977**

Scale: 1:2,500

Printed at: 1:2,500

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

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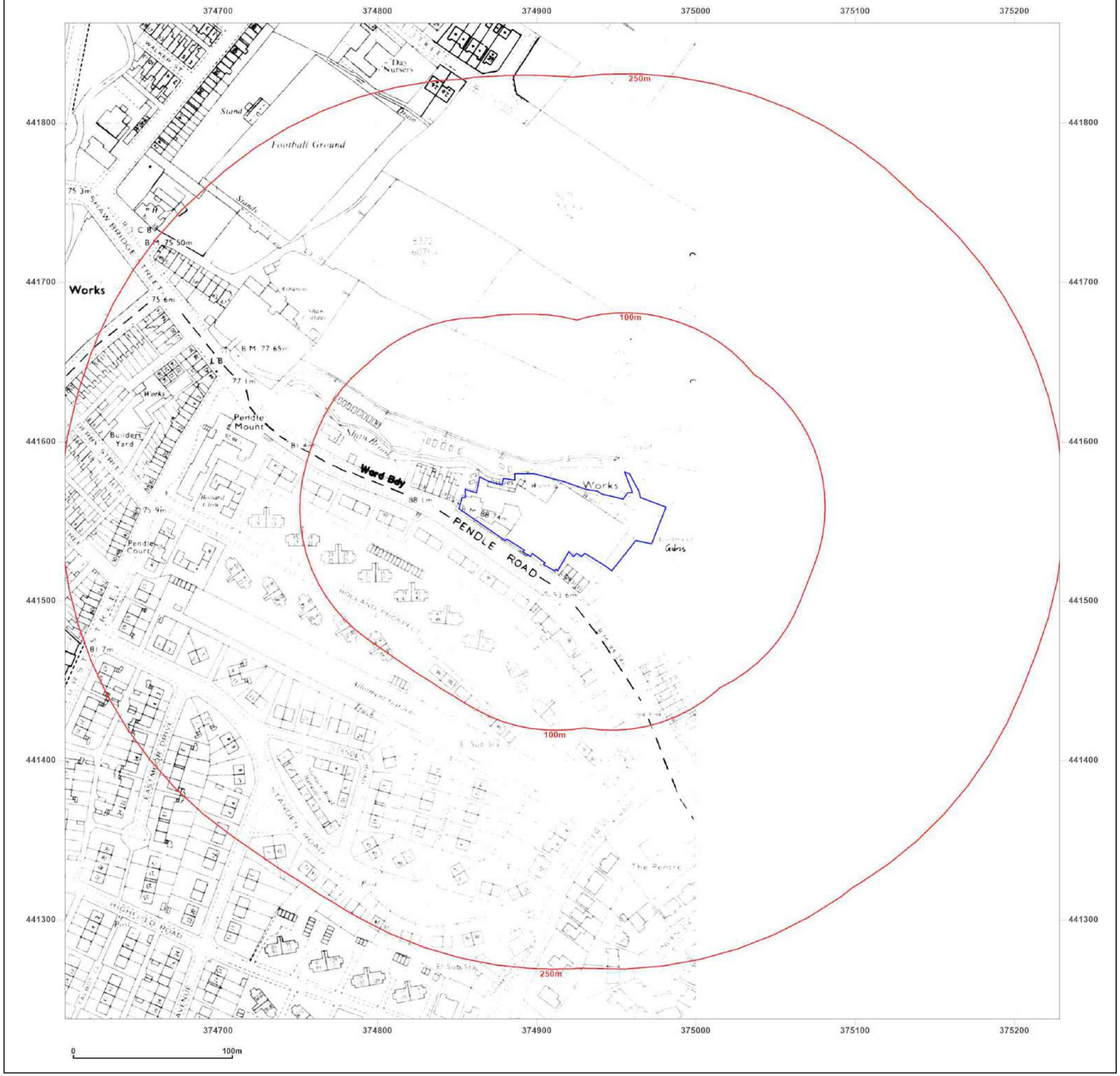

Groundsure INSIGHTS

Site Details:

WORTHINGTON BROUGHAM FURNITURE LTD, PENDLE MILL, PENDLE ROAD, CLITHEROE, BB7 1JQ

Client Ref: Pendle_Mill
Report Ref: GS-8645412
Grid Ref: 374916, 441550

Map Name: National Grid

Map date: **1986**

Scale: 1:2,500

Printed at: 1:2,500

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Revised N/A
Edition N/A
Copyright 1986
Levelled 1961

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Production date: 04 April 2022

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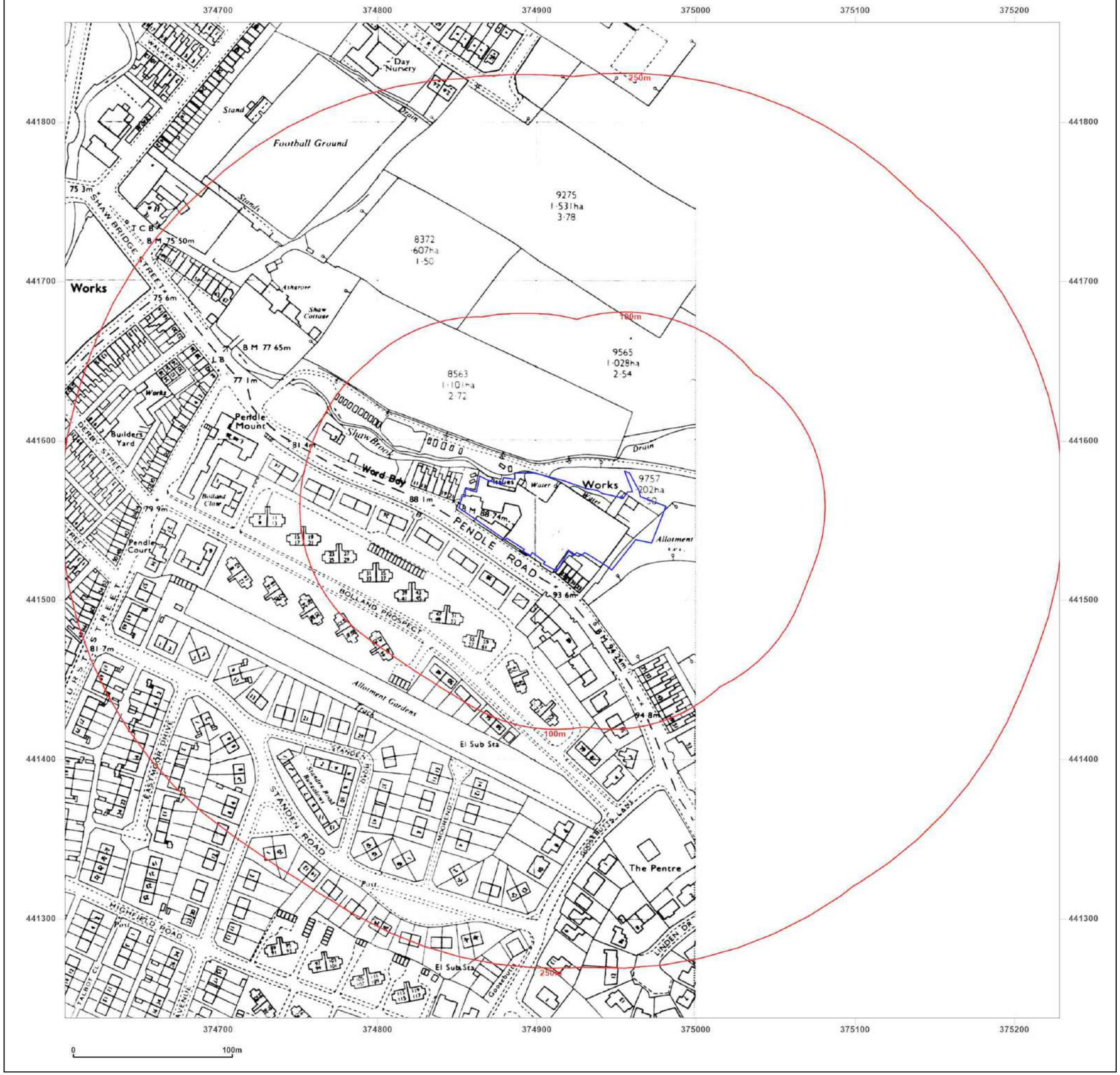

Groundsure INSIGHTS

Site Details:

WORTHINGTON BROUGHAM FURNITURE LTD, PENDLE MILL, PENDLE ROAD, CLITHEROE, BB7 1JQ

Client Ref: Pendle_Mill
Report Ref: GS-8645412
Grid Ref: 374916, 441550

Map Name: National Grid

Map date: **1990**

Scale: 1:2,500

Printed at: 1:2,500

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

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Production date: 04 April 2022

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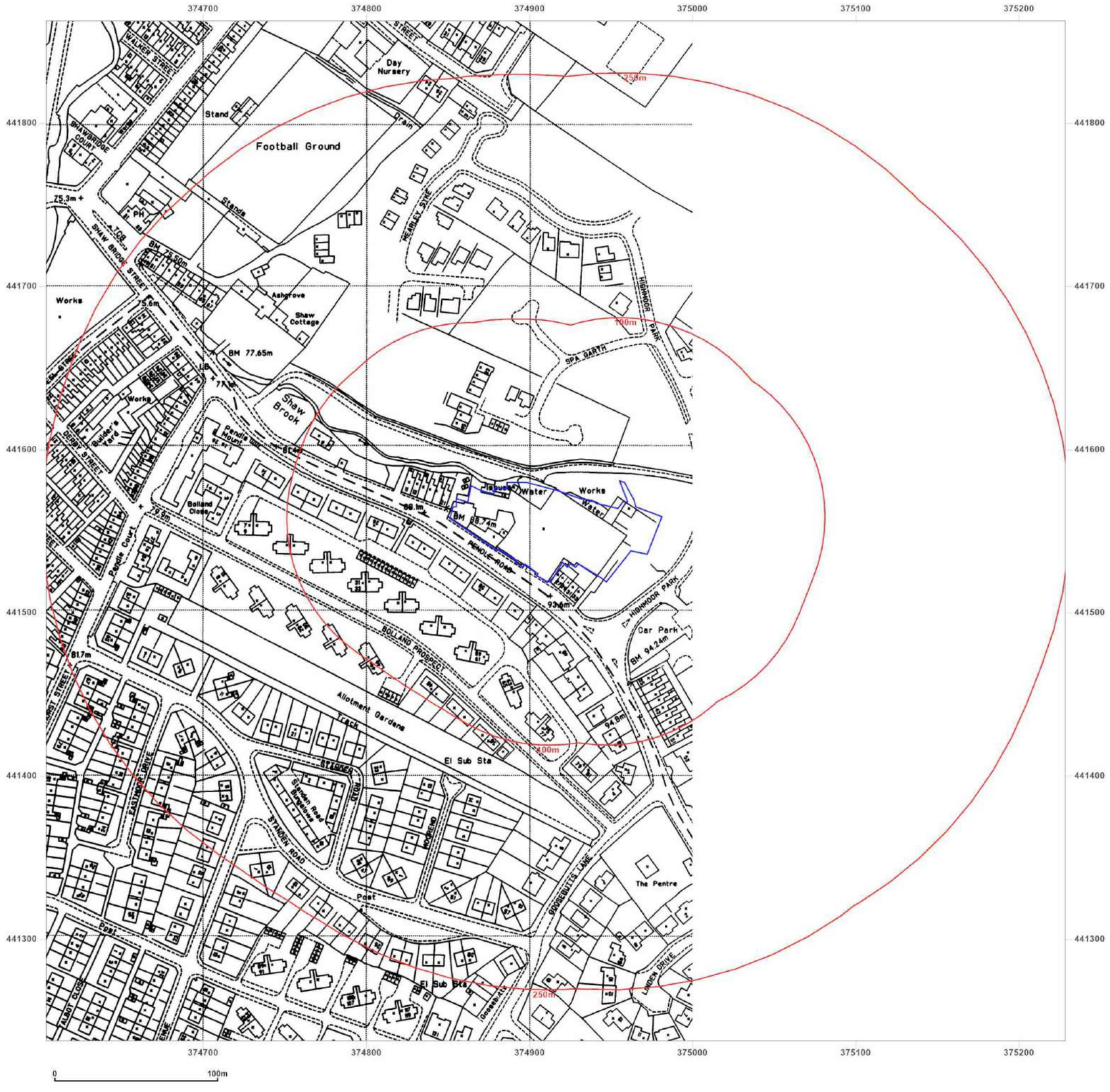

Groundsure INSIGHTS

Site Details:

WORTHINGTON BROUGHAM FURNITURE LTD, PENDLE MILL, PENDLE ROAD, CLITHEROE, BB7 1JQ

Client Ref: Pendle_Mill
Report Ref: GS-8645412
Grid Ref: 374916, 441550

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

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

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Groundsure INSIGHTS

Site Details:

WORTHINGTON BROUGHAM FURNITURE LTD, PENDLE MILL, PENDLE ROAD, CLITHEROE, BB7 1JQ

Client Ref:	Pendle_Mill
Report Ref:	GS-8645412
Grid Ref:	374916, 441550

Map Name:	National Grid
Map date:	**1993**
Scale:	1:2,500
Printed at:	1:2,500

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

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Map legend available at:
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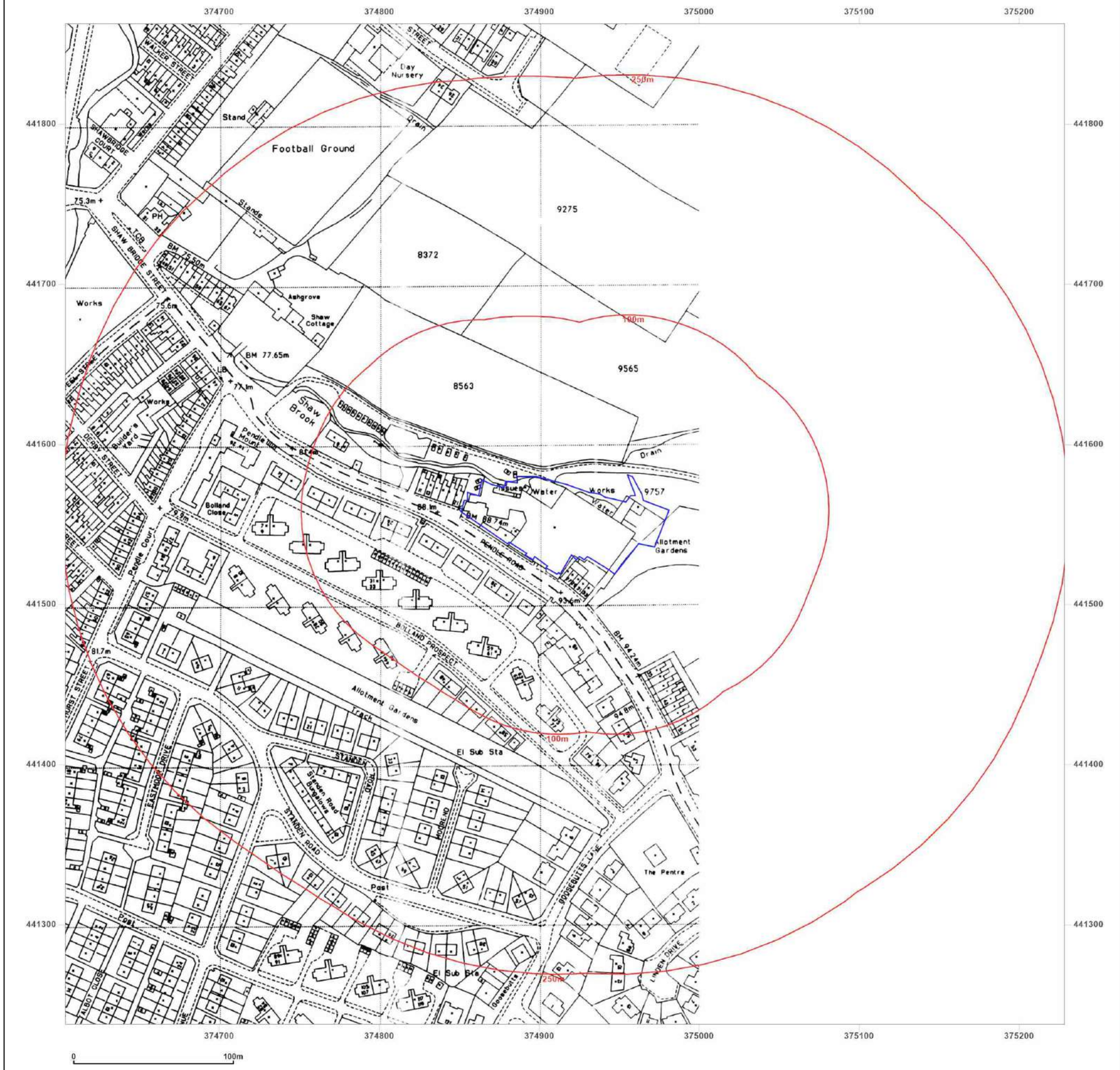

Groundsure INSIGHTS

Site Details:

WORTHINGTON BROUGHAM FURNITURE LTD, PENDLE MILL, PENDLE ROAD, CLITHEROE, BB7 1JQ

Client Ref: Pendle_Mill
Report Ref: GS-8645412
Grid Ref: 374916, 441550

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

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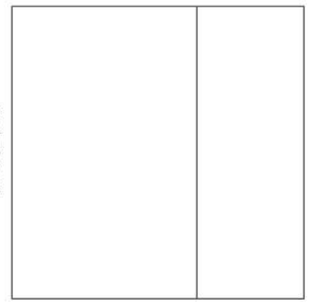
Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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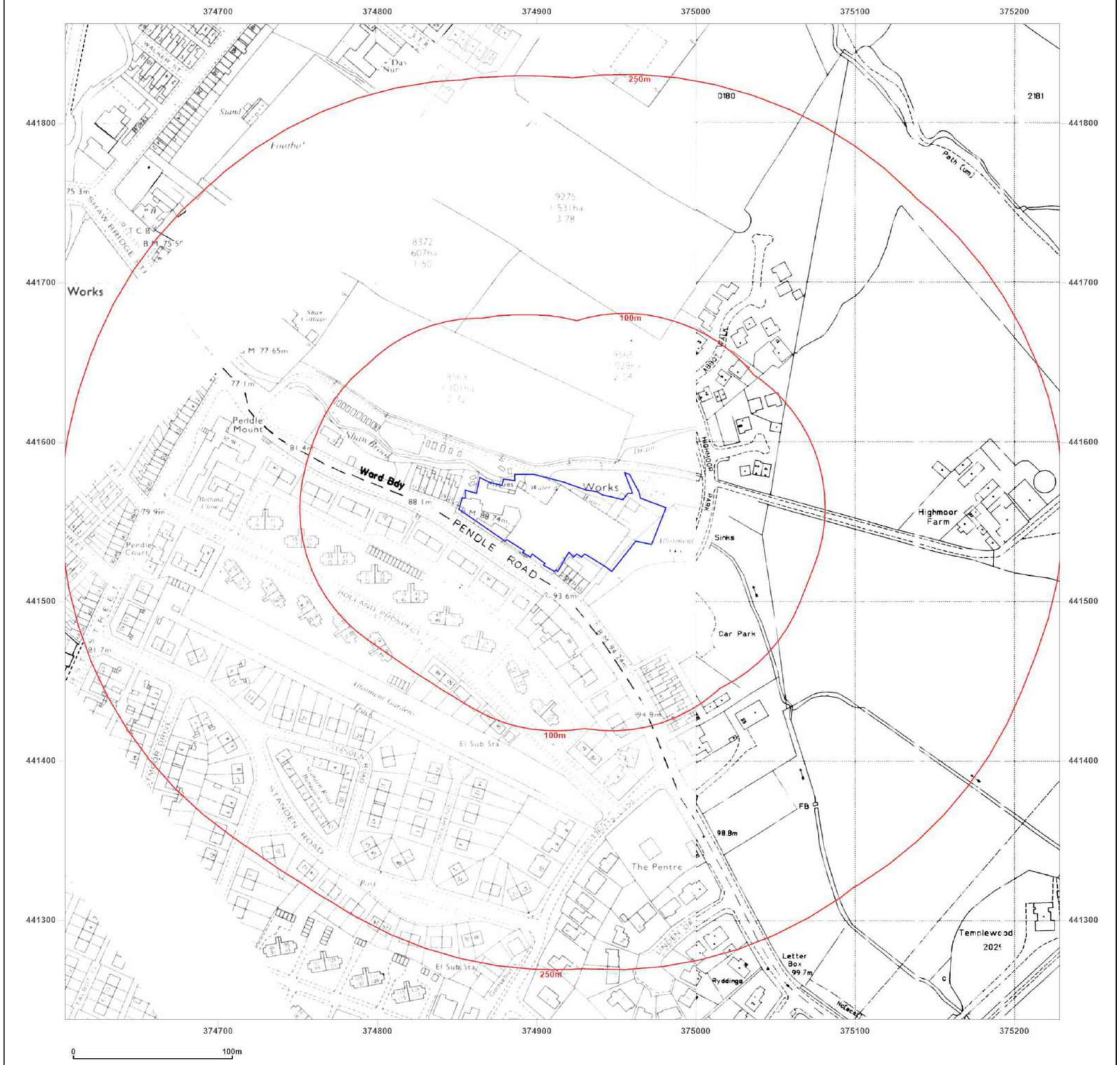

Groundsure INSIGHTS

Site Details:

WORTHINGTON BROUGHAM FURNITURE LTD, PENDLE MILL, PENDLE ROAD, CLITHEROE, BB7 1JQ

Client Ref: Pendle_Mill
Report Ref: GS-8645412
Grid Ref: 374916, 441550

Map Name: National Grid

Map date: **1990-1994**

Scale: 1:2,500

Printed at: 1:2,500

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

Surveyed 1994
Revised N/A
Edition N/A
Copyright 1994
Levelled N/A

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Production date: 04 April 2022

Map legend available at:
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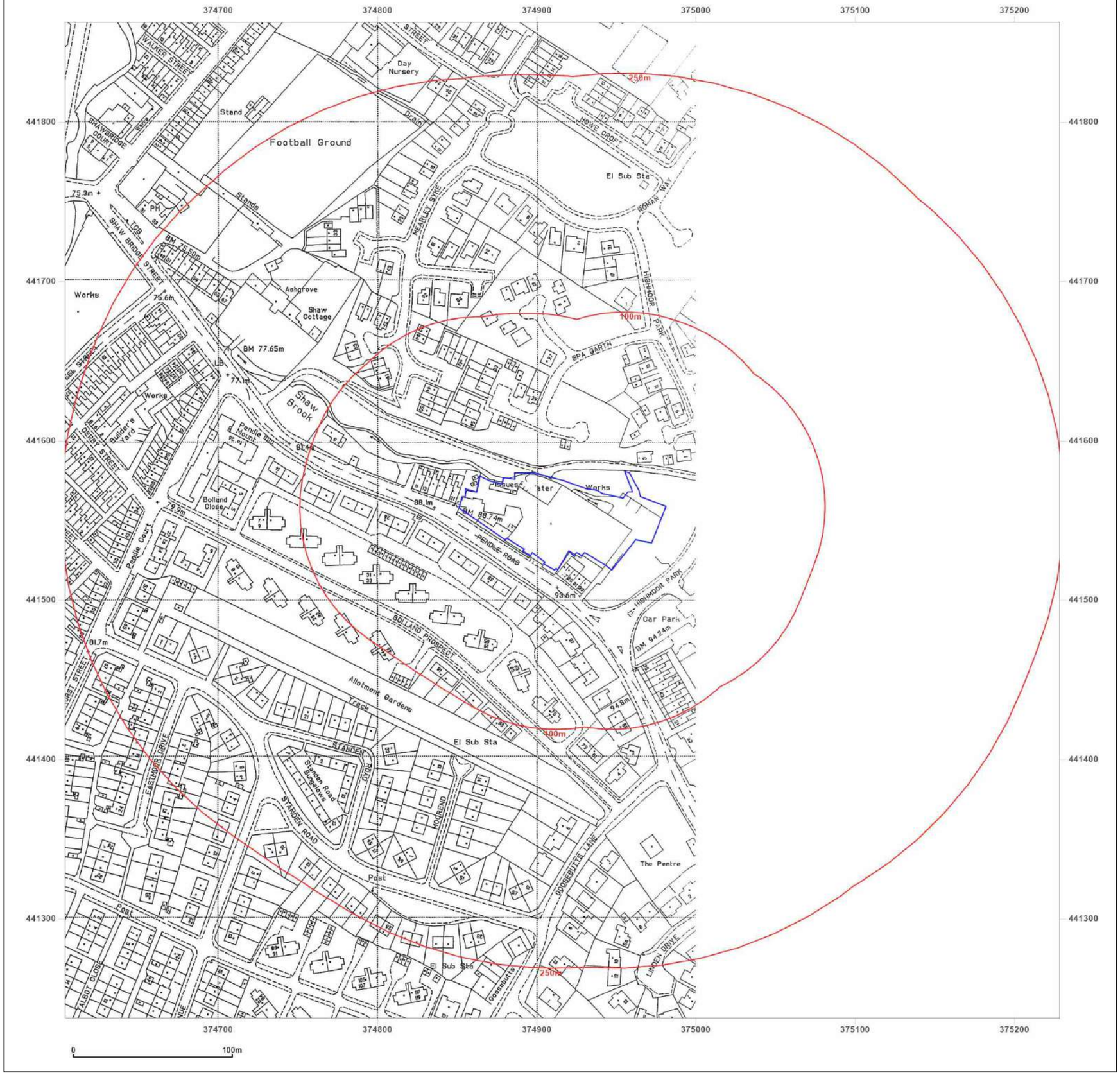

Groundsure INSIGHTS

Site Details:

WORTHINGTON BROUGHAM FURNITURE LTD, PENDLE MILL, PENDLE ROAD, CLITHEROE, BB7 1JQ

Client Ref: Pendle_Mill
Report Ref: GS-8645412
Grid Ref: 374916, 441550

Map Name: National Grid
Map date: **1995**
Scale: 1:2,500
Printed at: 1:2,500

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

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Production date: 04 April 2022

Map legend available at:
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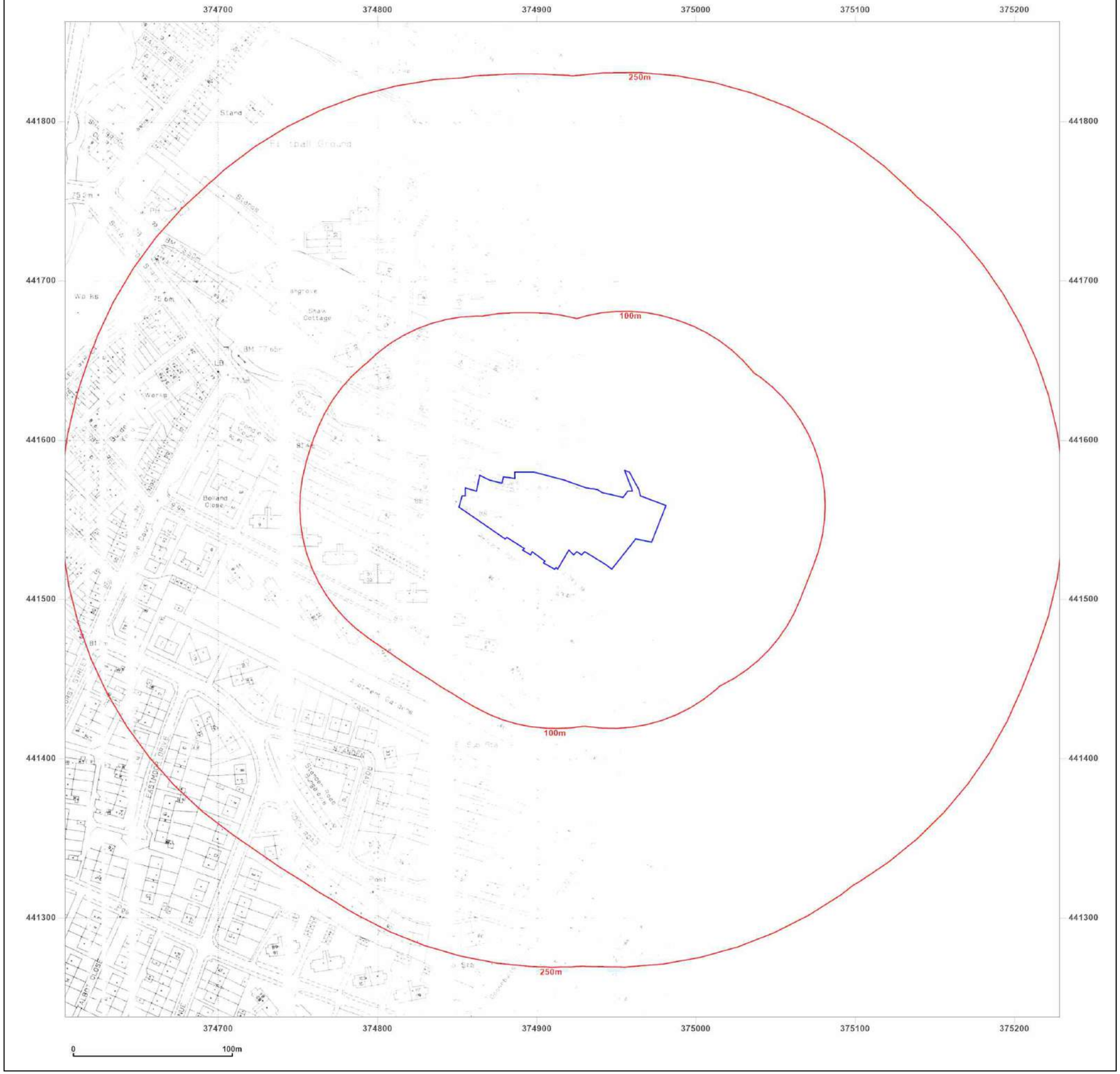

Groundsure INSIGHTS

Site Details:

WORTHINGTON BROUGHAM FURNITURE LTD, PENDLE MILL, PENDLE ROAD, CLITHEROE, BB7 1JQ

Client Ref: Pendle_Mill
Report Ref: GS-8645412
Grid Ref: 374916, 441550

Map Name: National Grid
Map date: **1995**
Scale: 1:2,500
Printed at: 1:2,500

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

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Production date: 04 April 2022

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Groundsure INSIGHTS

Site Details:

WORTHINGTON BROUGHAM FURNITURE LTD, PENDLE MILL, PENDLE ROAD, CLITHEROE, BB7 1JQ

Client Ref: Pendle_Mill
Report Ref: GS-8645412
Grid Ref: 374916, 441550

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

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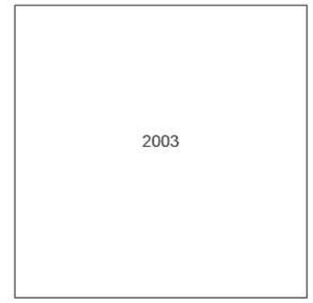

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Production date: 04 April 2022

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APPENDIX B

Enviro+GeoInsight Report

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

WORTHINGTON BROUGHAM FURNITURE LTD, PENDLE MILL, PENDLE ROAD, CLITHEROE, BB7 1JQ

Order Details

Date: 04/04/2022

Your ref: Pendle_Mill

Our Ref: GS-8645413

Client: Michael Buckley

Site Details

Location: 374921 441550

Area: 0.48 ha

Authority: Ribble Valley Borough Council

Contact us with any questions at:
info@groundsure.com
08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	Historical industrial land uses	4	0	3	20	-
16	1.2	Historical tanks	0	0	1	1	-
16	1.3	Historical energy features	0	0	2	16	-
17	1.4	Historical petrol stations	0	0	0	0	-
17	1.5	Historical garages	0	0	0	5	-
18	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
19	2.1	Historical industrial land uses	6	0	5	30	-
21	2.2	Historical tanks	0	0	2	1	-
21	2.3	Historical energy features	0	0	10	36	-
23	2.4	Historical petrol stations	0	0	0	0	-
24	2.5	Historical garages	0	0	0	12	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
25	3.1	Active or recent landfill	0	0	0	0	-
25	3.2	Historical landfill (BGS records)	0	0	0	0	-
26	3.3	Historical landfill (LA/mapping records)	0	0	1	0	-
26	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
26	3.5	Historical waste sites	0	0	0	0	-
26	3.6	Licensed waste sites	0	0	0	0	-
26	3.7	Waste exemptions	0	0	10	7	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
29	4.1	Recent industrial land uses	2	0	3	-	-
30	4.2	Current or recent petrol stations	0	0	0	0	-
30	4.3	Electricity cables	0	0	0	0	-
30	4.4	Gas pipelines	0	0	0	0	-
30	4.5	Sites determined as Contaminated Land	0	0	0	0	-

31	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
31	4.7	Regulated explosive sites	0	0	0	0	-
31	4.8	Hazardous substance storage/usage	0	0	0	0	-
31	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
31	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
32	**4.11**	**Licensed pollutant release (Part A(2)/B)**	0	0	0	6	-
32	4.12	Radioactive Substance Authorisations	0	0	0	0	-
33	**4.13**	**Licensed Discharges to controlled waters**	0	0	0	1	-
33	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
33	4.15	Pollutant release to public sewer	0	0	0	0	-
33	4.16	List 1 Dangerous Substances	0	0	0	0	-
34	4.17	List 2 Dangerous Substances	0	0	0	0	-
34	**4.18**	**Pollution Incidents (EA/NRW)**	0	0	3	12	-
36	4.19	Pollution inventory substances	0	0	0	0	-
36	4.20	Pollution inventory waste transfers	0	0	0	0	-
36	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
37	**5.1**	**Superficial aquifer**	Identified (within 500m)				
39	**5.2**	**Bedrock aquifer**	Identified (within 500m)				
41	**5.3**	**Groundwater vulnerability**	Identified (within 50m)				
42	**5.4**	**Groundwater vulnerability- soluble rock risk**	Identified (within 0m)				
42	5.5	Groundwater vulnerability- local information	None (within 0m)				
43	**5.6**	**Groundwater abstractions**	0	0	0	0	6
45	**5.7**	**Surface water abstractions**	0	0	0	0	15
49	5.8	Potable abstractions	0	0	0	0	0
49	5.9	Source Protection Zones	0	0	0	0	-
50	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
51	**6.1**	**Water Network (OS MasterMap)**	2	1	11	-	-

53	6.2	Surface water features	1	1	5	-	-
53	6.3	WFD Surface water body catchments	1	-	-	-	-
53	6.4	WFD Surface water bodies	0	0	0	-	-
54	6.5	WFD Groundwater bodies	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
55	7.1	Risk of flooding from rivers and the sea	High (within 50m)				
56	7.2	Historical Flood Events	0	0	1	-	-
56	7.3	Flood Defences	0	0	0	-	-
56	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
57	7.5	Flood Storage Areas	0	0	0	-	-
58	7.6	Flood Zone 2	Identified (within 50m)				
59	7.7	Flood Zone 3	Identified (within 50m)				
Page	Section	Surface water flooding					
60	8.1	Surface water flooding	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
62	9.1	Groundwater flooding	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
63	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	4
64	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
64	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
64	10.4	Special Protection Areas (SPA)	0	0	0	0	0
65	10.5	National Nature Reserves (NNR)	0	0	0	0	0
65	10.6	Local Nature Reserves (LNR)	0	0	0	0	4
65	10.7	Designated Ancient Woodland	0	0	0	0	1
66	10.8	Biosphere Reserves	0	0	0	0	0
66	10.9	Forest Parks	0	0	0	0	0
66	10.10	Marine Conservation Zones	0	0	0	0	0
66	10.11	Green Belt	0	0	0	0	0
66	10.12	Proposed Ramsar sites	0	0	0	0	0

67	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
67	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
67	10.15	Nitrate Sensitive Areas	0	0	0	0	0
67	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
68	**10.17**	**SSSI Impact Risk Zones**	1	-	-	-	-
69	**10.18**	**SSSI Units**	0	0	0	0	4
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
71	11.1	World Heritage Sites	0	0	0	-	-
72	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
72	11.3	National Parks	0	0	0	-	-
72	**11.4**	**Listed Buildings**	0	0	1	-	-
73	11.5	Conservation Areas	0	0	0	-	-
73	11.6	Scheduled Ancient Monuments	0	0	0	-	-
73	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
74	**12.1**	**Agricultural Land Classification**	Grade 3 (within 250m)				
75	12.2	Open Access Land	0	0	0	-	-
75	12.3	Tree Felling Licences	0	0	0	-	-
75	12.4	Environmental Stewardship Schemes	0	0	0	-	-
75	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
76	13.1	Priority Habitat Inventory	0	0	0	-	-
76	13.2	Habitat Networks	0	0	0	-	-
76	13.3	Open Mosaic Habitat	0	0	0	-	-
76	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
77	**14.1**	**10k Availability**	Identified (within 500m)				
78	14.2	Artificial and made ground (10k)	0	0	0	0	-
79	14.3	Superficial geology (10k)	0	0	0	0	-

79	14.4	Landslip (10k)	0	0	0	0	-
80	14.5	Bedrock geology (10k)	0	0	0	0	-
80	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
81	**15.1**	**50k Availability**	Identified (within 500m)				
82	15.2	Artificial and made ground (50k)	0	0	0	0	-
82	15.3	Artificial ground permeability (50k)	0	0	-	-	-
83	**15.4**	**Superficial geology (50k)**	1	0	1	1	-
84	**15.5**	**Superficial permeability (50k)**	Identified (within 50m)				
84	15.6	Landslip (50k)	0	0	0	0	-
84	15.7	Landslip permeability (50k)	None (within 50m)				
85	**15.8**	**Bedrock geology (50k)**	1	0	0	1	-
86	**15.9**	**Bedrock permeability (50k)**	Identified (within 50m)				
86	**15.10**	**Bedrock faults and other linear features (50k)**	0	0	1	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
87	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence					
88	**17.1**	**Shrink swell clays**	Very low (within 50m)				
89	**17.2**	**Running sands**	Very low (within 50m)				
91	**17.3**	**Compressible deposits**	Negligible (within 50m)				
92	**17.4**	**Collapsible deposits**	Very low (within 50m)				
93	**17.5**	**Landslides**	Low (within 50m)				
95	**17.6**	**Ground dissolution of soluble rocks**	Very low (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
97	18.1	Natural cavities	0	0	0	0	-
98	18.2	BritPits	0	0	0	0	-
98	**18.3**	**Surface ground workings**	4	5	0	-	-
98	18.4	Underground workings	0	0	0	0	0
99	18.5	Historical Mineral Planning Areas	0	0	0	0	-

99	**18.6**	**Non-coal mining**	1	1	0	0	0
99	18.7	Mining cavities	0	0	0	0	0
100	18.8	JPB mining areas	None (within 0m)				
100	18.9	Coal mining	None (within 0m)				
100	18.10	Brine areas	None (within 0m)				
100	18.11	Gypsum areas	None (within 0m)				
100	18.12	Tin mining	None (within 0m)				
101	18.13	Clay mining	None (within 0m)				

Page	Section	Radon	
102	**19.1**	**Radon**	Between 1% and 3% (within 0m)

Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
103	**20.1**	**BGS Estimated Background Soil Chemistry**	1	3	-	-	-
103	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
103	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-

Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
104	21.1	Underground railways (London)	0	0	0	-	-
104	21.2	Underground railways (Non-London)	0	0	0	-	-
104	21.3	Railway tunnels	0	0	0	-	-
104	21.4	Historical railway and tunnel features	0	0	0	-	-
104	21.5	Royal Mail tunnels	0	0	0	-	-
105	21.6	Historical railways	0	0	0	-	-
105	21.7	Railways	0	0	0	-	-
105	21.8	Crossrail 1	0	0	0	0	-
105	21.9	Crossrail 2	0	0	0	0	-
105	21.10	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 30/05/2021

Site Area: 0.48ha

Recent site history - 2018 aerial photograph

Capture Date: 10/06/2018

Site Area: 0.48ha

Recent site history - 2015 aerial photograph

Capture Date: 08/08/2015

Site Area: 0.48ha

Recent site history - 2000 aerial photograph

Capture Date: 07/05/2000

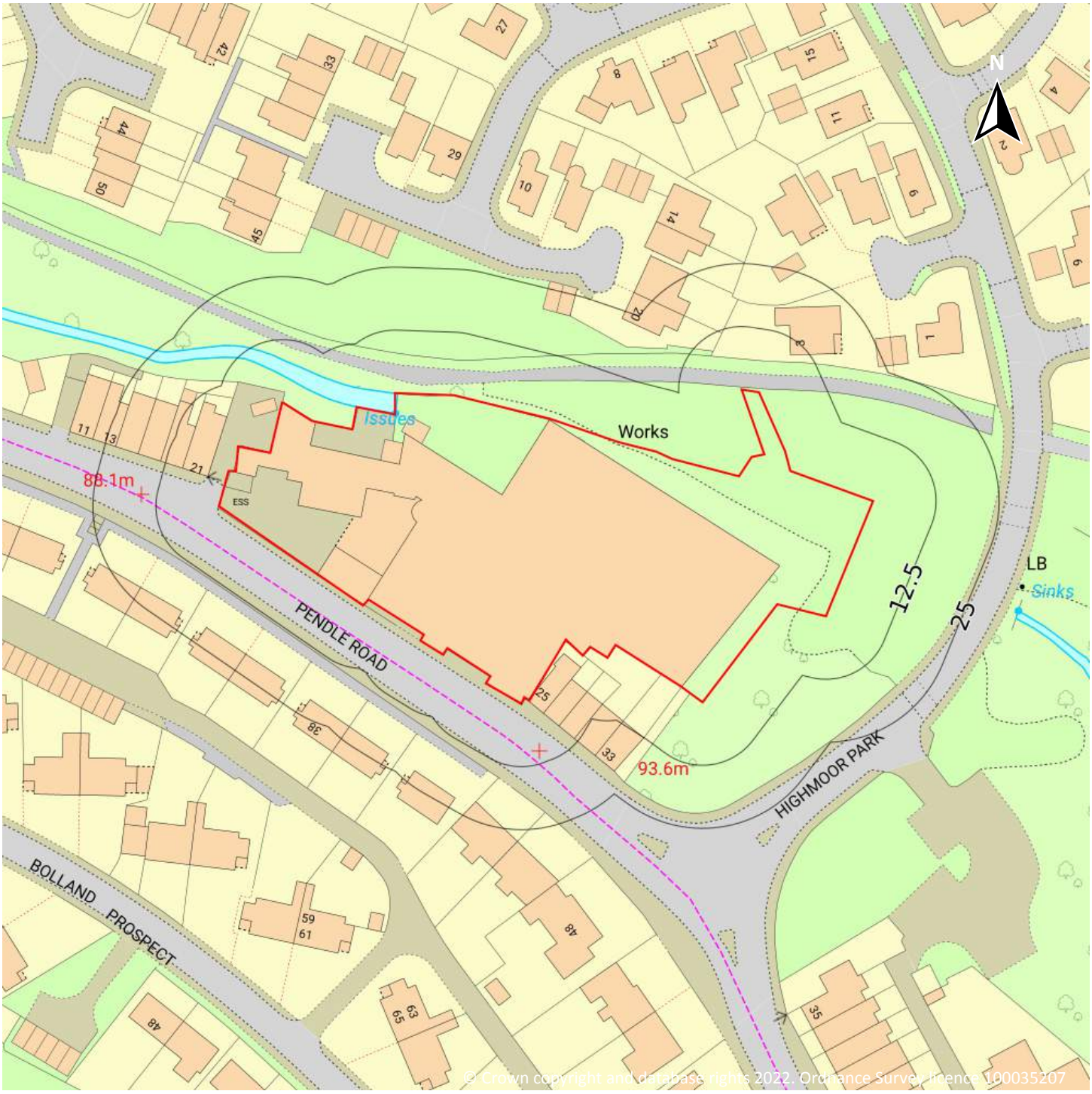
Site Area: 0.48ha

Recent site history - 1999 aerial photograph

Capture Date: 10/09/1999

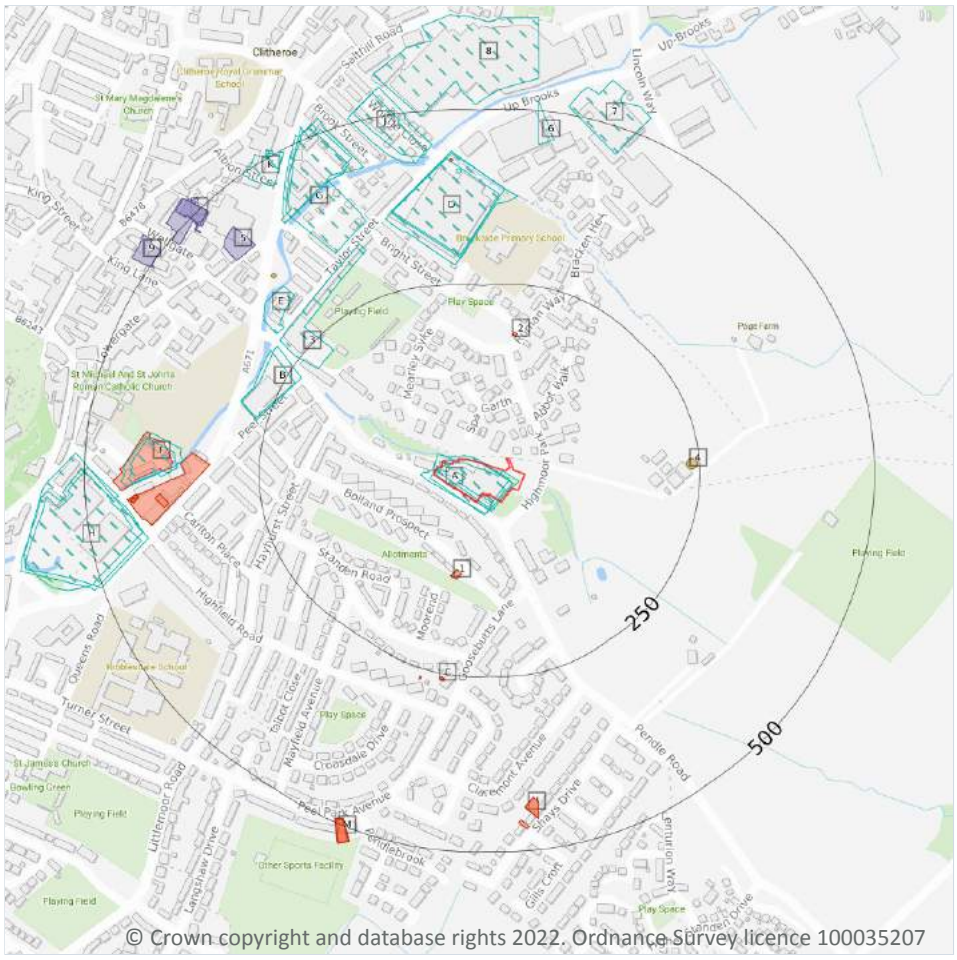
Site Area: 0.48ha

OS MasterMap site plan



Site Area: 0.48ha

1 Past land use



1.1 Historical industrial land uses

Records within 500m	27

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 14**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Cotton Mill**	**1846**	**644207**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Mill**	**1955**	**716095**
A	**On site**	**Unspecified Mill**	**1910 - 1938**	**768784**
A	**On site**	**Unspecified Mill**	**1971**	**784544**
3	220m NW	Brewery	1910	672144
B	231m NW	Unspecified Mill	1955	757994
B	235m NW	Unspecified Mill	1910 - 1938	774735
D	278m N	Unspecified Mill	1910 - 1938	706072
D	288m N	Unspecified Mill	1955	700881
D	292m N	Unspecified Mill	1971	705445
E	296m NW	Brewery	1846	672145
G	334m NW	Unspecified Works	1971	678681
F	358m W	Unspecified Mill	1955	698564
F	368m W	Unspecified Mill	1910 - 1938	738086
G	407m NW	Unspecified Mill	1910 - 1938	754946
D	409m N	Unspecified Tank	1971	674182
G	410m NW	Unspecified Mill	1955	705217
H	418m W	Unspecified Mills	1955	745999
H	424m W	Engineering Works	1971	659507
J	428m N	Unspecified Mill	1910 - 1938	745950
H	429m W	Unspecified Mills	1910 - 1938	749915
J	434m N	Unspecified Mill	1955	767879
6	451m N	Unspecified Depot	1974	668766
K	460m NW	Unspecified Mill	1910	656969
7	462m N	Engineering Works	1974	659508
K	479m NW	Sawmill	1846	653526
8	493m N	Unspecified Works	1971	678684

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	2

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

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
4	232m E	Unspecified Tank	1997 - 1998	101770
E	356m NW	Tanks	1964	87308

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	18

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

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
1	100m S	Electricity Substation	1976 - 1997	53451
2	176m N	Electricity Substation	1995 - 1997	55685
C	255m S	Electricity Substation	1990	53334
C	256m S	Electricity Substation	1976	54241
C	262m S	Electricity Substation	1993 - 1997	51535
F	321m W	Electrical Depot	1964	46294
F	374m W	Electrical Depot	1964	46293
F	381m W	Electricity Substation	1997	45168
F	424m W	Electricity Substation	1976 - 1990	59361

ID	Location	Land use	Dates present	Group ID
F	424m W	Electricity Substation	1993	59409
I	425m S	Electricity Substation	1993 - 1995	50630
I	425m S	Electricity Substation	1997	53824
D	426m N	Electricity Substation	1993 - 1997	58823
F	428m W	Electricity Substation	1995 - 1997	58546
I	455m S	Electricity Substation	1990	55884
M	490m SW	Electricity Substation	1990	55656
M	490m SW	Electricity Substation	1976	47789
M	492m SW	Electricity Substation	1993 - 1997	54913

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	5

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

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
5	409m NW	Garage	1964 - 1976	19492
L	475m NW	Garage	1993 - 1997	17554

ID	Location	Land use	Dates present	Group ID
L	483m NW	Garage	1990	19435
L	484m NW	Garage	1964 - 1976	18438
9	495m NW	Garage	1964 - 1976	19211

This data is sourced from Ordnance Survey / Groundsure.

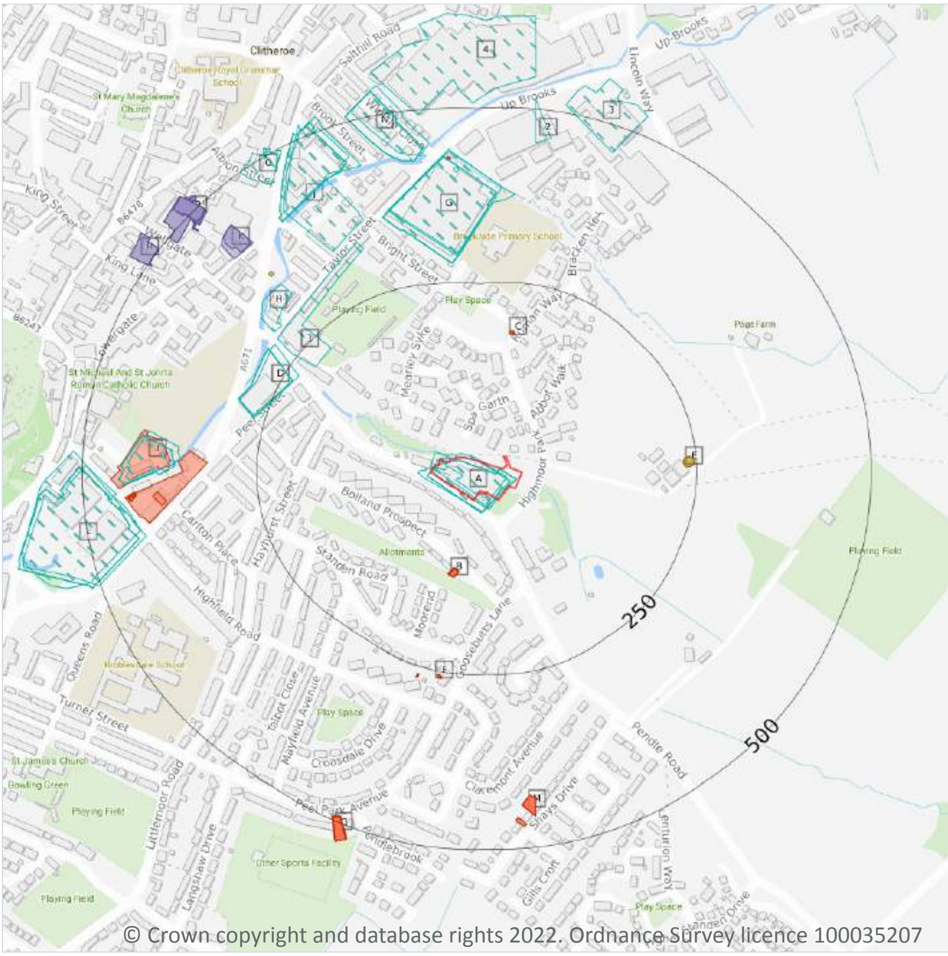
1.6 Historical military land

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	41

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

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

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Mill**	**1938**	**768784**
A	**On site**	**Unspecified Mill**	**1930**	**768784**
A	**On site**	**Unspecified Mill**	**1910**	**768784**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Cotton Mill**	**1846**	**644207**
A	**On site**	**Unspecified Mill**	**1971**	**784544**
A	**On site**	**Unspecified Mill**	**1955**	**716095**
1	220m NW	Brewery	1910	672144
D	231m NW	Unspecified Mill	1955	757994
D	235m NW	Unspecified Mill	1938	774735
D	235m NW	Unspecified Mill	1930	774735
D	235m NW	Unspecified Mill	1910	774735
G	278m N	Unspecified Mill	1938	706072
G	278m N	Unspecified Mill	1930	706072
G	278m N	Unspecified Mill	1910	706072
G	288m N	Unspecified Mill	1955	700881
G	292m N	Unspecified Mill	1971	705445
H	296m NW	Brewery	1846	672145
J	334m NW	Unspecified Works	1971	678681
I	358m W	Unspecified Mill	1955	698564
I	368m W	Unspecified Mill	1938	738086
I	368m W	Unspecified Mill	1930	738086
I	368m W	Unspecified Mill	1910	738086
J	407m NW	Unspecified Mill	1938	754946
J	407m NW	Unspecified Mill	1930	754946
J	407m NW	Unspecified Mill	1910	754946
G	409m N	Unspecified Tank	1971	674182
J	410m NW	Unspecified Mill	1955	705217
L	418m W	Unspecified Mills	1955	745999
L	424m W	Engineering Works	1971	659507
N	428m N	Unspecified Mill	1938	745950
N	428m N	Unspecified Mill	1930	745950

ID	Location	Land Use	Date	Group ID
N	428m N	Unspecified Mill	1910	745950
L	429m W	Unspecified Mills	1938	749915
L	429m W	Unspecified Mills	1930	749915
L	429m W	Unspecified Mills	1910	749915
N	434m N	Unspecified Mill	1955	767879
2	451m N	Unspecified Depot	1974	668766
O	460m NW	Unspecified Mill	1910	656969
3	462m N	Engineering Works	1974	659508
O	479m NW	Sawmill	1846	653526
4	493m N	Unspecified Works	1971	678684

This data is sourced from Ordnance Survey / Groundsure.

2.2 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. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

ID	Location	Land Use	Date	Group ID
E	232m E	Unspecified Tank	1998	101770
E	232m E	Unspecified Tank	1997	101770
H	356m NW	Tanks	1964	87308

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**46**

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

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

ID	Location	Land Use	Date	Group ID
B	100m S	Electricity Substation	1990	53451
B	100m S	Electricity Substation	1990	53451
B	101m S	Electricity Substation	1976	53451
B	101m S	Electricity Substation	1997	53451
B	101m S	Electricity Substation	1995	53451
B	101m S	Electricity Substation	1997	53451
B	101m S	Electricity Substation	1993	53451
C	176m N	Electricity Substation	1997	55685
C	176m N	Electricity Substation	1995	55685
C	176m N	Electricity Substation	1997	55685
F	255m S	Electricity Substation	1990	53334
F	255m S	Electricity Substation	1990	53334
F	256m S	Electricity Substation	1976	54241
F	262m S	Electricity Substation	1997	51535
F	262m S	Electricity Substation	1995	51535
F	262m S	Electricity Substation	1997	51535
F	262m S	Electricity Substation	1993	51535
I	321m W	Electrical Depot	1964	46294
I	374m W	Electrical Depot	1964	46293
I	381m W	Electricity Substation	1997	45168
I	424m W	Electricity Substation	1976	59361
I	424m W	Electricity Substation	1993	59409
M	425m S	Electricity Substation	1997	53824
M	425m S	Electricity Substation	1995	50630
M	425m S	Electricity Substation	1997	53824
M	425m S	Electricity Substation	1993	50630
G	426m N	Electricity Substation	1996	58823

ID	Location	Land Use	Date	Group ID
G	426m N	Electricity Substation	1994	58823
G	426m N	Electricity Substation	1993	58823
G	426m N	Electricity Substation	1995	58823
G	426m N	Electricity Substation	1997	58823
G	426m N	Electricity Substation	1995	58823
G	426m N	Electricity Substation	1996	58823
I	426m W	Electricity Substation	1990	59361
I	426m W	Electricity Substation	1990	59361
I	428m W	Electricity Substation	1997	58546
I	428m W	Electricity Substation	1995	58546
M	455m S	Electricity Substation	1990	55884
M	455m S	Electricity Substation	1990	55884
Q	490m SW	Electricity Substation	1990	55656
Q	490m SW	Electricity Substation	1990	55656
Q	490m SW	Electricity Substation	1976	47789
Q	492m SW	Electricity Substation	1997	54913
Q	492m SW	Electricity Substation	1995	54913
Q	492m SW	Electricity Substation	1997	54913
Q	492m SW	Electricity Substation	1993	54913

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	**12**

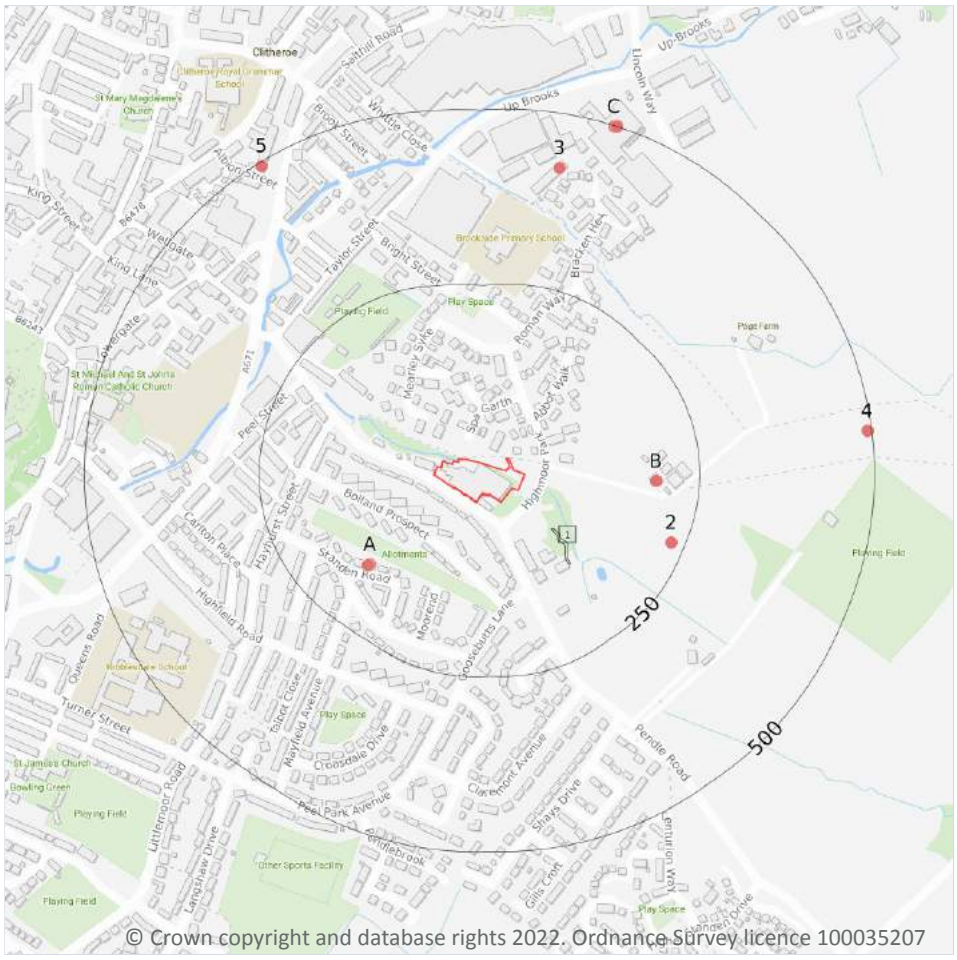
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

ID	Location	Land Use	Date	Group ID
K	409m NW	Garage	1976	19492
K	410m NW	Garage	1964	19492
P	475m NW	Garage	1993	17554
P	475m NW	Garage	1997	17554
P	475m NW	Garage	1995	17554
P	475m NW	Garage	1997	17554
P	483m NW	Garage	1990	19435
P	483m NW	Garage	1990	19435
P	484m NW	Garage	1976	18438
P	484m NW	Garage	1964	18438
R	495m NW	Garage	1976	19211
R	495m NW	Garage	1964	19211

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



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Site Outline

Search buffers in metres (m)

Historical landfill (LA/OS)

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	1

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

Features are displayed on the Waste and landfill map on **page 25**

ID	Location	Site address	Source	Data type
1	73m SE	Refuse Tip	1964 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	0

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

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

3.5 Historical waste sites

Records within 500m	0

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

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

3.6 Licensed waste sites

Records within 500m	0

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

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

3.7 Waste exemptions

Records within 500m	17

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.

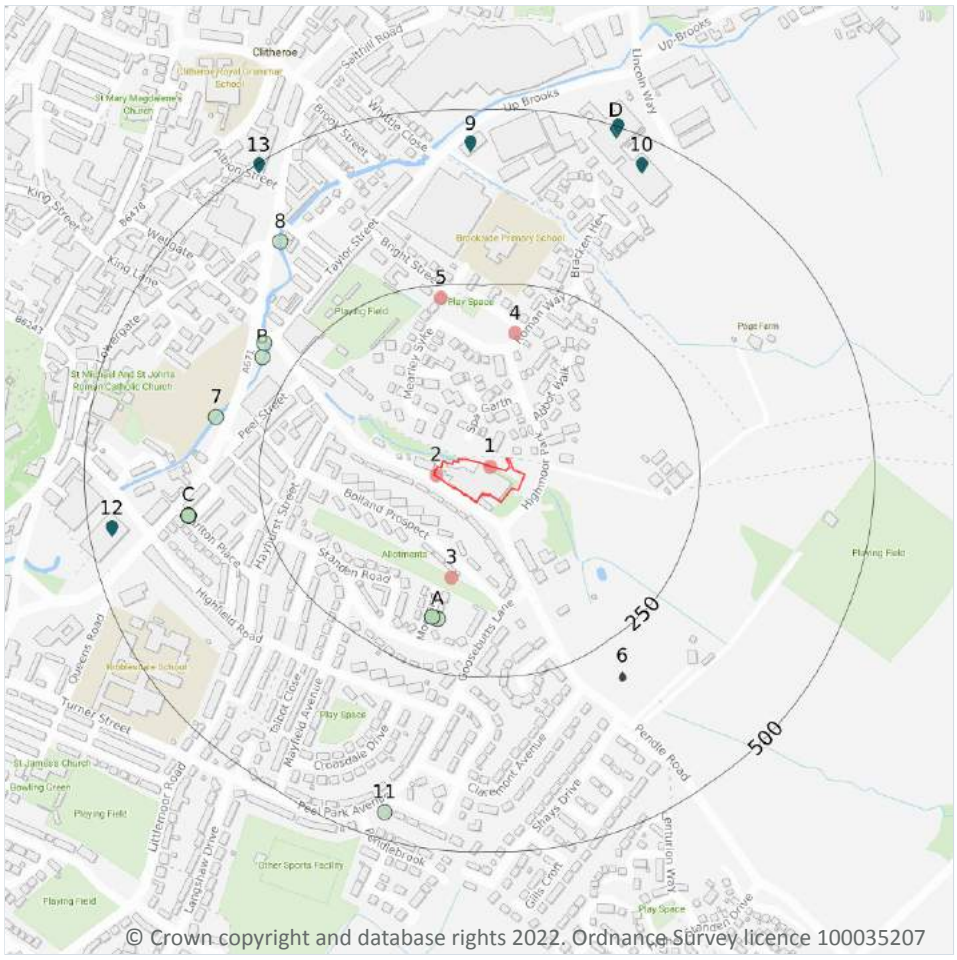
Features are displayed on the Waste and landfill map on **page 25**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	159m SW	21 Standen Road Clitheroe Lancashire BB7 1JY	EPR/LF0700CT/A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	159m SW	21 Standen Road Clitheroe Lancashire BB7 1JY	EPR/LF0700CT/A001	Using waste exemption	Non-Agricultural Waste Only	Burning of waste as a fuel in a small appliance
A	161m SW	21, STANDEN ROAD, CLITHEROE, BB7 1JY	WEX216888	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	161m SW	21, STANDEN ROAD, CLITHEROE, BB7 1JY	WEX216888	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance
B	187m E	Highmoor Farm Highmoor Clitheroe Lancashire BB7 1PN	EPR/ME5188ZP/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
B	187m E	Highmoor Farm Highmoor Clitheroe Lancashire BB7 1PN	EPR/ME5188ZP/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
B	187m E	Highmoor Farm Highmoor Clitheroe Lancashire BB7 1PN	EPR/ME5188ZP/A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit
B	187m E	Highmoor Farm Highmoor Clitheroe Lancashire BB7 1PN	EPR/ME5188ZP/A001	Using waste exemption	Agricultural Waste Only	Burning of waste as a fuel in a small appliance
B	187m E	Highmoor Farm Highmoor Clitheroe Lancashire BB7 1PN	EPR/ME5188ZP/A001	Using waste exemption	Agricultural Waste Only	Use of waste for a specified purpose
2	231m E	Highmoor Farm Highmoor Clitheroe Lancashire BB7 1PN	EPR/QE5257VY/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
3	422m N	Unit 5 Brookside Industrial Units Taylor Street Clitheroe Lancashire BB7 1NL	EPR/EE5142NC/A001	Storing waste exemption	Both agricultural and non-agricultural waste	Storage of waste in a secure place
4	493m E	Highmoor Farm Highmoor Clitheroe Lancashire BB7 1PN	EPR/PE5253WZ/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
5	495m NW	ALBION COURT, UNIT 2, WATERLOO ROAD, CLITHEROE, BB7 1NS	WEX132296	Storing waste exemption	Not on a farm	Storage of waste in a secure place

ID	Location	Site	Reference	Category	Sub-Category	Description
C	498m N	UP BROOKS, CLITHEROE, BB7 1NX	WEX252514	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	498m N	UP BROOKS, CLITHEROE, BB7 1NX	WEX108490	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	498m N	UP BROOKS, CLITHEROE, BB7 1NX	WEX108500	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
C	499m N	3M Health Care Up Brooks CLITHEROE Lancashire BB7 1NX	EPR/EF0402BQ/A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)

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

4 Current industrial land use



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Site Outline

Search buffers in metres (m)

Recent industrial land uses

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	5

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 29**

ID	Location	Company	Address	Activity	Category
1	**On site**	**Works**	**Lancashire, BB7**	**Unspecified Works Or Factories**	**Industrial Features**
2	**On site**	**Electricity Sub Station**	**Lancashire, BB7**	**Electrical Features**	**Infrastructure and Facilities**
3	113m S	Electricity Sub Station	Lancashire, BB7	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
4	180m N	Electricity Sub Station	Lancashire, BB7	Electrical Features	Infrastructure and Facilities
5	232m N	A B Promotions	1, Mearley Syke, Clitheroe, Lancashire, BB7 1JG	Workwear	Industrial Products

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	6

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 29**

ID	Location	Address	Details	
9	451m N	Gee-co (Precast) Ltd., Upbrooks Mill, Taylor Street, Clitheroe, Lancashire, BB7 1NL	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
10	460m NE	3M Health Care Ltd, Upbrooks Industrial Estate, Upbrooks, Clitheroe	Process: Surface Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
12	467m W	Flexible Reinforcements, Queensway House, Queensway, Clitheroe, Lancashire, BB7 1AU	Process: Coating Processes Status: Revoked Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
D	493m N	3m Neotechnic, Taylor Street, Clitheroe, BB7 1NL	Process: Surface Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
13	497m NW	Ian Boocock, Units 4 & 5, Albion Court, Waterloo Road, Clitheroe	Process: Waste Oil Burner 0.4 MW Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
D	499m N	3 M Health Care Ltd., Upbrooks Industrial Estate, Upbrooks, Clitheroe, BB7 1NX	Process: Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	1

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 29**

ID	Location	Address	Details	
6	302m SE	TEMPLEWOOD, PENDLE RD, CLITHEROE, LANCASHIRE, BB7 1JH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 011649 Permit Version: 1 Receiving Water: SHAW BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 28/04/1969 Effective Date: 28/07/1969 Revocation Date: -

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	15

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 29**

ID	Location	Details	
A	175m S	Incident Date: 11/04/2001 Incident Identification: 2148 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)
A	176m S	Incident Date: 08/11/2001 Incident Identification: 41788 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Fumes	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
A	176m S	Incident Date: 08/11/2001 Incident Identification: 41788 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Fumes	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
B	294m NW	Incident Date: 29/04/2008 Incident Identification: 582562 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	302m NW	Incident Date: 21/01/2003 Incident Identification: 132293 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
7	322m W	Incident Date: 29/10/2003 Incident Identification: 198773 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

ID	Location	Details	
C	356m W	Incident Date: 05/10/2002 Incident Identification: 112841 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
C	356m W	Incident Date: 05/10/2002 Incident Identification: 112841 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Effects on Humans	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
C	356m W	Incident Date: 08/11/2001 Incident Identification: 41783 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Fumes	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	356m W	Incident Date: 10/12/2001 Incident Identification: 47528 Pollutant: Oils and Fuel Pollutant Description: Kerosene and Aviation Fuel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	356m W	Incident Date: 07/11/2003 Incident Identification: 200530 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)
C	356m W	Incident Date: 08/11/2001 Incident Identification: 41783 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Fumes	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	356m W	Incident Date: 05/10/2002 Incident Identification: 112841 Pollutant: Atmospheric Pollutants and Effects:Atmospheric Pollutants and Effects Pollutant Description: Effects on Humans:Other Atmospheric Pollutant or Effect	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
8	389m NW	Incident Date: 09/05/2002 Incident Identification: 77433 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)
11	462m S	Incident Date: 24/07/2002 Incident Identification: 94088 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

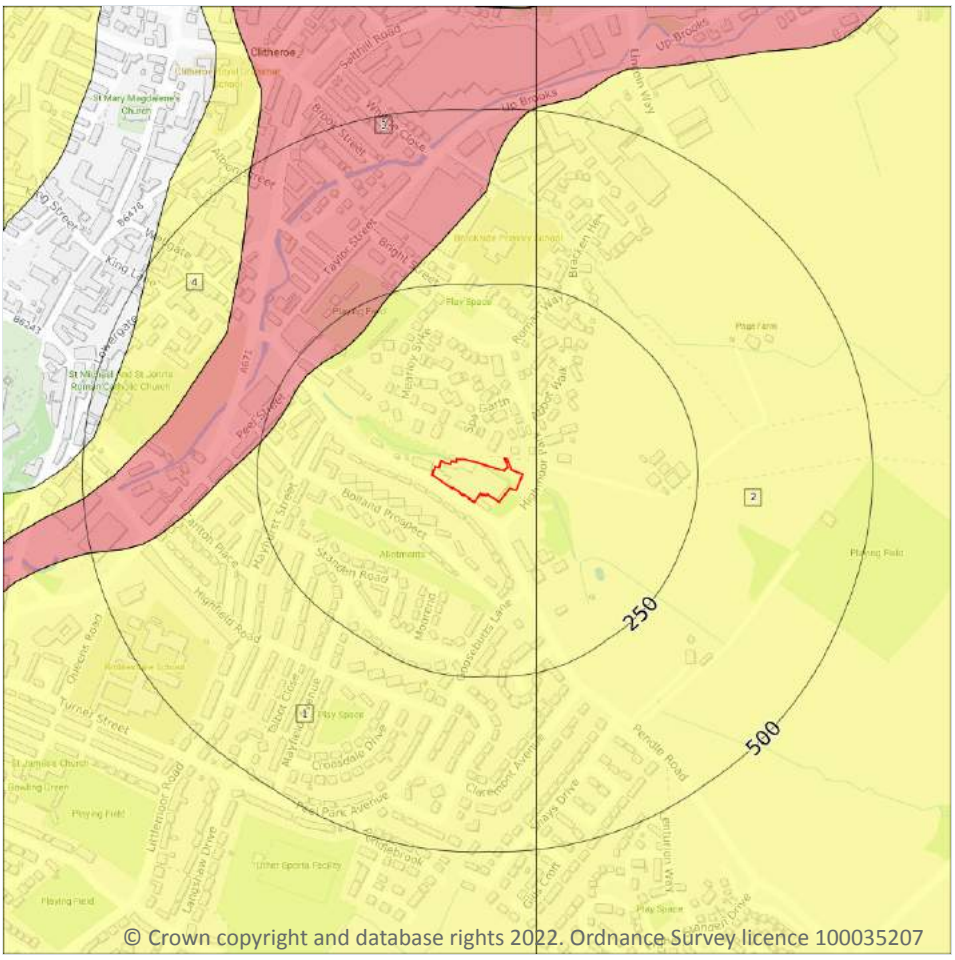
4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

5.1 Superficial aquifer

Records within 500m	4

Aquifer status of groundwater held within superficial geology.

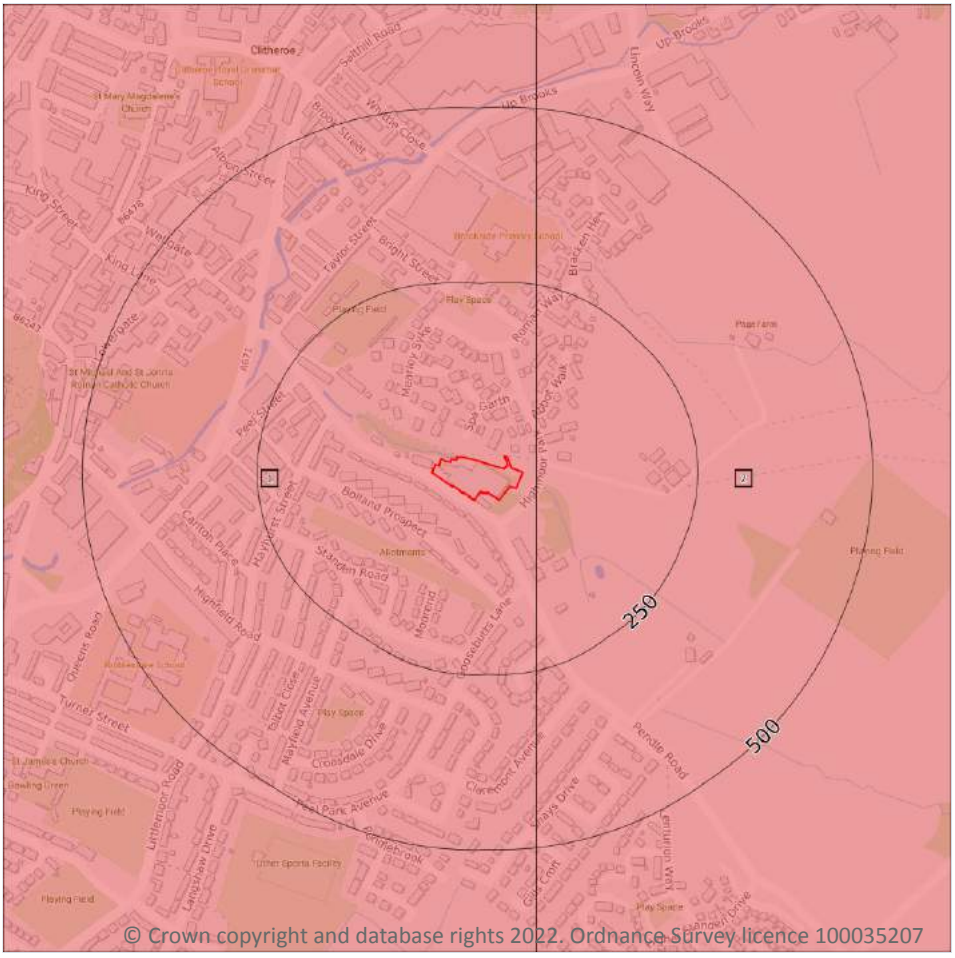
Features are displayed on the Hydrogeology map on **page 37**

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	19m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

ID	Location	Designation	Description
3	211m NW	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	354m NW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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

Bedrock aquifer



Site Outline

Search buffers in metres (m)

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

5.2 Bedrock aquifer

Records within 500m **2**

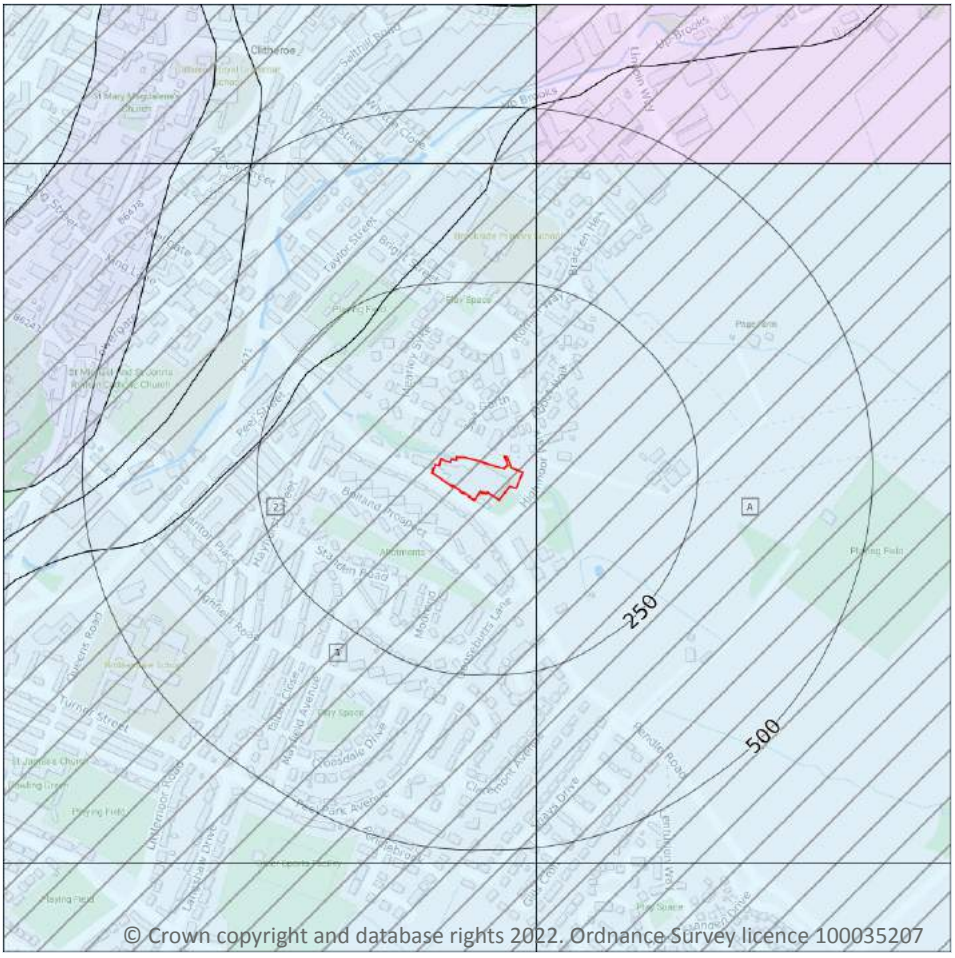
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 39**

ID	Location	Designation	Description
1	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**
2	19m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	2

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

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

Features are displayed on the Groundwater vulnerability map on **page 41**

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: Medium**	**Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures**
A	18m E	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: >10m Patchiness value: >90% Recharge potential: Medium	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.**	**7.000000000000001%**

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

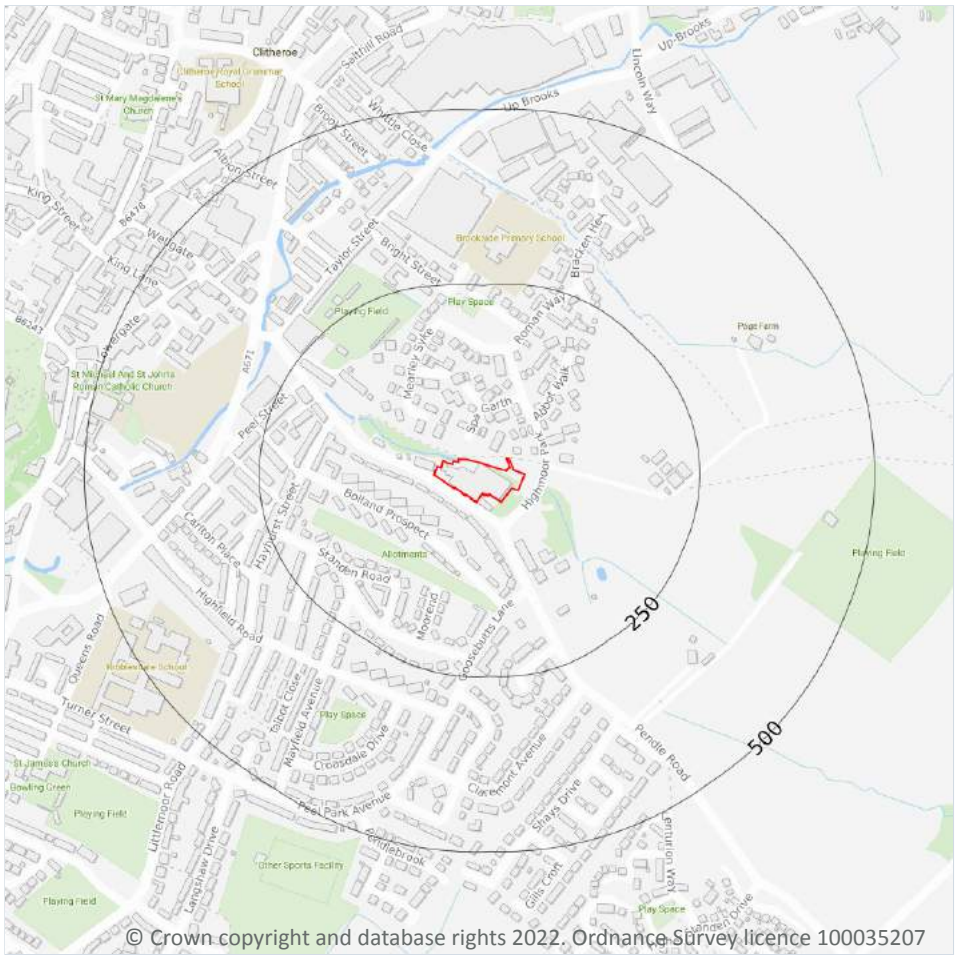
5.5 Groundwater vulnerability- local information

Records on site	**0**

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

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

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

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

5.6 Groundwater abstractions

Records within 2000m	6

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 43**

ID	Location	Details	
-	1362m NE	Status: Historical Licence No: 2671309053 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT CLITHEROE AUCTION MART, CLITHEROE Data Type: Point Name: CLITHEROE AUCTION MART COMPANY LTD Easting: 375720 Northing: 442710	Annual Volume (m^3): 9977 Max Daily Volume (m^3): 28 Original Application No: - Original Start Date: 05/10/2004 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 05/10/2004 Version End Date: -
-	1363m NE	Status: Active Licence No: NW/071/0309/006 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT CLITHEROE AUCTION MART, CLITHEROE Data Type: Point Name: CLITHEROE AUCTION MART COMPANY LTD Easting: 375721 Northing: 442711	Annual Volume (m^3): 15,261 Max Daily Volume (m^3): 45 Original Application No: NPS/WR/009021 Original Start Date: 01/04/2013 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 26/11/2018 Version End Date: -
-	1632m NE	Status: Active Licence No: NW/071/0309/013 Details: Dewatering Direct Source: Ground Water - North West Region Point: DEWATERING SUMP AT BELLMAN QUARRY Data Type: Poly4 Name: Castle Cement Limited Easting: 375857 Northing: 442995	Annual Volume (m^3): 816,680 Max Daily Volume (m^3): 8,640 Original Application No: NPS/NA/000479 Original Start Date: 14/12/2021 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 14/12/2021 Version End Date: -
-	1835m N	Status: Historical Licence No: 2671309038 Details: Dust suppression Direct Source: Ground Water - North West Region Point: "BANKFIELD QUARRY, CLITHEROE, LANCS" Data Type: Point Name: TARMAC CENTRAL LTD Easting: 375200 Northing: 443400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/12/1976 Expiry Date: - Issue No: 102 Version Start Date: 19/10/2001 Version End Date: -

ID	Location	Details	
-	1835m N	Status: Active Licence No: 2671309038 Details: Dust Suppression Direct Source: Ground Water - North West Region Point: BANKFIELD QUARRY, CLITHEROE, LANCS Data Type: Point Name: Tarmac Trading Limited Easting: 375200 Northing: 443400	Annual Volume (m^3): 159,113 Max Daily Volume (m^3): 818 Original Application No: NPS/WR/024533 Original Start Date: 15/12/1976 Expiry Date: - Issue No: 106 Version Start Date: 08/09/2016 Version End Date: -
-	1887m N	Status: Active Licence No: NW/071/0309/009 Details: Dewatering Direct Source: Ground Water - North West Region Point: DEWATERING SUMP AT LANEHEAD QUARRY Data Type: Poly4 Name: Castle Cement Limited Easting: 375302 Northing: 444405	Annual Volume (m^3): 4,350,410 Max Daily Volume (m^3): 22,710 Original Application No: NPS/NA/000361 Original Start Date: 14/12/2021 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 14/12/2021 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**15**

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 43**

ID	Location	Details	
-	700m W	Status: Historical Licence No: 2671309025 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: NEARLEY BRK AT CLITHEROE Data Type: Point Name: JAMES THORNBER LTD Easting: 374200 Northing: 441300	Annual Volume (m^3): 227300 Max Daily Volume (m^3): 981.936 Original Application No: - Original Start Date: 11/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1966 Version End Date: -

ID	Location	Details	
-	700m W	Status: Historical Licence No: 2671309025 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: MEARLEY BRK AT CLITHEROE Data Type: Point Name: JAMES THORNBER LTD Easting: 374200 Northing: 441300	Annual Volume (m^3): 227300 Max Daily Volume (m^3): 981.936 Original Application No: - Original Start Date: 11/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1966 Version End Date: -
-	832m SW	Status: Historical Licence No: 2671309033 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: MEARLEY BRK FEEDING PRIMROSE LODGE AT CLITHEROE Data Type: Point Name: STALWART DYEING CO LTD Easting: 374100 Northing: 441200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/12/1966 Version End Date: -
-	832m SW	Status: Historical Licence No: 2671309033 Details: Transfer between sources Direct Source: Surface, Non-Tidal - North West Region Point: MEARLEY BRK FEEDING PRIMROSE LODGE AT CLITHEROE Data Type: Point Name: STALWART DYEING CO LTD Easting: 374100 Northing: 441200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/12/1966 Version End Date: -
-	1208m SW	Status: Historical Licence No: 2671309032 Details: Transfer between sources Direct Source: Surface, Non-Tidal - North West Region Point: PENDLETON BRK@CLITHEROE FEEDING THE MILL POND, PRIMROSE WKS Data Type: Point Name: STALWART DYEING CO LTD Easting: 374000 Northing: 440700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/12/1993 Version End Date: -

ID	Location	Details	
-	1208m SW	Status: Historical Licence No: 2671309032 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: PENDLETON BRK@CLITHEROE FEEDING THE MILL POND, PRIMROSE WKS Data Type: Point Name: STALWART DYEING CO LTD Easting: 374000 Northing: 440700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/12/1993 Version End Date: -
-	1296m SW	Status: Historical Licence No: 2671309033 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: MEARLEY BRK FEEDING PRIMROSE LODGE AT CLITHEROE 314 Data Type: Point Name: STALWART DYEING CO LTD Easting: 373800 Northing: 440800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/12/1966 Version End Date: -
-	1296m SW	Status: Historical Licence No: 2671309033 Details: Transfer between sources Direct Source: Surface, Non-Tidal - North West Region Point: MEARLEY BRK FEEDING PRIMROSE LODGE AT CLITHEROE 314 Data Type: Point Name: STALWART DYEING CO LTD Easting: 373800 Northing: 440800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/12/1966 Version End Date: -
-	1296m SW	Status: Historical Licence No: 2671309033 Details: Transfer between sources Direct Source: Surface, Non-Tidal - North West Region Point: MEARLEY BRK FEEDING PRIMROSE LODGE AT CLITHEROE $314 Data Type: Point Name: STALWART DYEING CO LTD Easting: 373800 Northing: 440800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/12/1966 Version End Date: -

ID	Location	Details	
-	1296m SW	Status: Historical Licence No: 2671309033 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: MEARLEY BRK FEEDING PRIMROSE LODGE AT CLITHEROE $314 Data Type: Point Name: STALWART DYEING CO LTD Easting: 373800 Northing: 440800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/12/1966 Version End Date: -
-	1350m SW	Status: Historical Licence No: 2671309032 Details: Transfer between sources Direct Source: Surface, Non-Tidal - North West Region Point: PENDLETON BRK@CLITHEROE FEEDING MILL POND,PRIMROSE WKS313 Data Type: Point Name: STALWART DYEING CO LTD Easting: 373900 Northing: 440600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/12/1993 Version End Date: -
-	1350m SW	Status: Historical Licence No: 2671309032 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: PENDLETON BRK@CLITHEROE FEEDING MILL POND,PRIMROSE WKS313 Data Type: Point Name: STALWART DYEING CO LTD Easting: 373900 Northing: 440600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/12/1993 Version End Date: -
-	1462m S	Status: Historical Licence No: 2671309021 Details: General use relating to Secondary Category (Medium Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "PENDLETON BRK, NORTH OF PENDLETON VILLAGE" Data Type: Point Name: TRUSTEES OF STANDEN SETTLED ESTATE Easting: 375300 Northing: 440100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 20/05/1966 Version End Date: -

ID	Location	Details	
-	1462m S	Status: Historical Licence No: 2671309021 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: PENDLETON BRK, NORTH OF PENDLETON VILLAGE Data Type: Point Name: TRUSTEES OF STANDEN SETTLED ESTATE Easting: 375300 Northing: 440100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 20/05/1966 Version End Date: -
-	1462m S	Status: Active Licence No: 2671309021 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: PENDLETON BROOK NORTH OF PENDLETON VILLAGE Data Type: Point Name: TRUSTEES OF STANDEN SETTLED ESTATE Easting: 375300 Northing: 440100	Annual Volume (m^3): 59,098 Max Daily Volume (m^3): 163.66 Original Application No: 4005 Original Start Date: 20/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 20/05/1966 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.

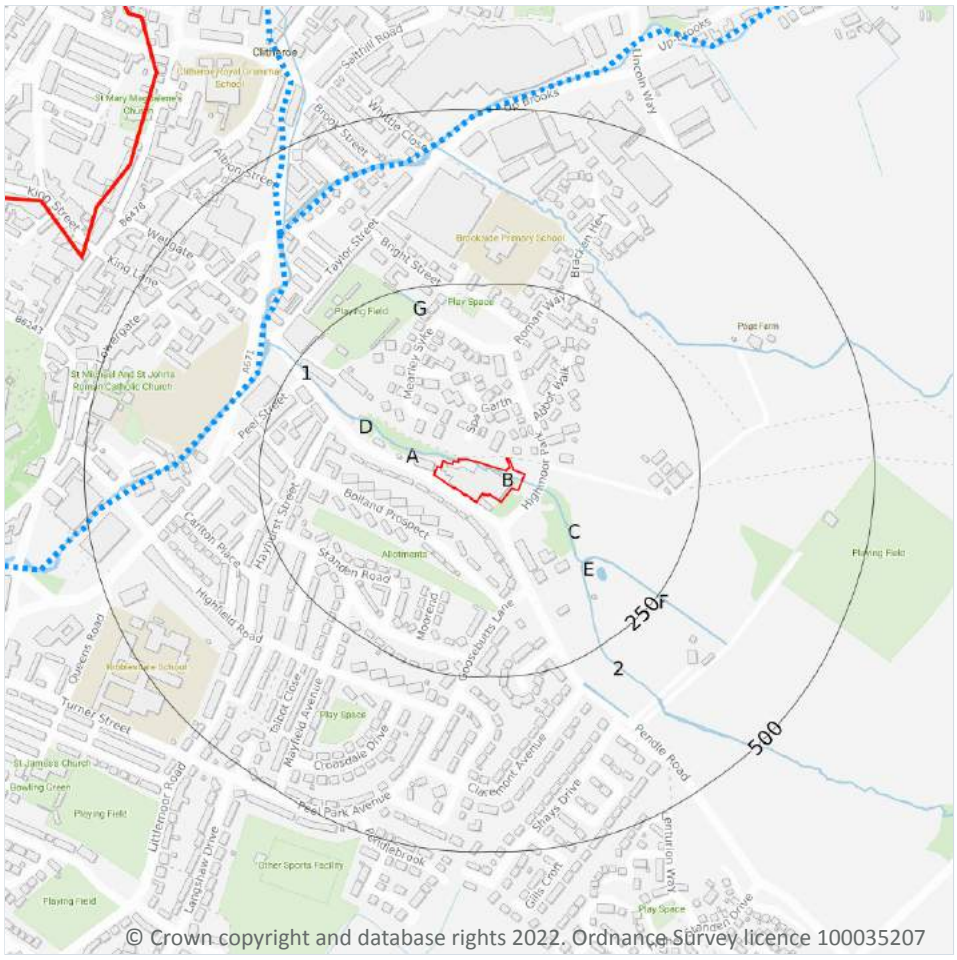
5.10 Source Protection Zones (confined aquifer)

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	14

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

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

ID	Location	Type of water feature	Ground level	Permanence	Name
A	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**Shaw Brook**

ID	Location	Type of water feature	Ground level	Permanence	Name
B	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**Shaw Brook**
C	35m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Shaw Brook
D	131m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Shaw Brook
E	133m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Shaw Brook
D	135m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Shaw Brook
E	138m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Shaw Brook
F	138m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	171m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Shaw Brook
D	175m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Shaw Brook
1	190m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Shaw Brook
E	192m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Shaw Brook
2	196m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Shaw Brook
G	222m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	7

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 51**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

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

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
B	**On site**	**River**	**Mearley Brook**	**GB112071065510**	**Ribble Middle - Settle to Calder**	**Ribble**

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

6.4 WFD Surface water bodies

Records identified	1

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

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

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
K	289m NW	River	Mearley Brook	GB112071065510	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site	1

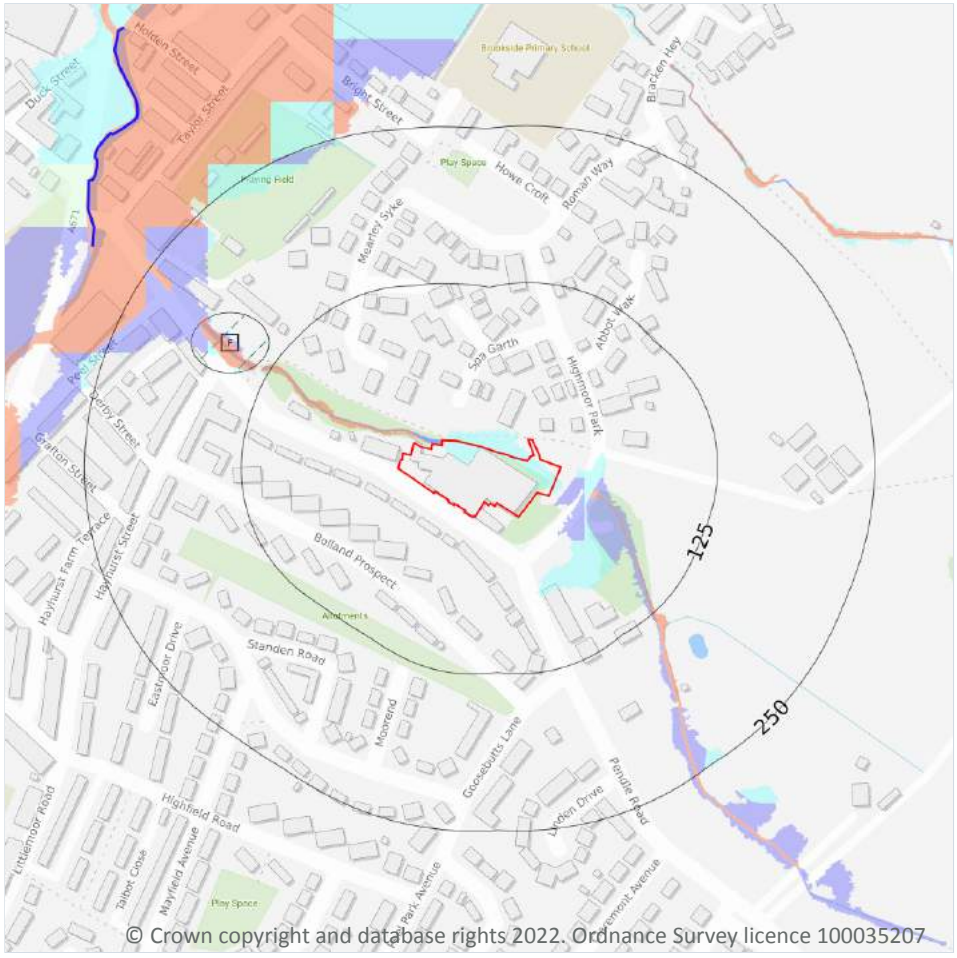
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

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

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
B	**On site**	**Ribble Carboniferous Aquifers**	**GB41202G103000**	**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	15

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).

Features are displayed on the River and coastal flooding map on **page 55**

Distance	Flood risk category
On site	**Medium**
0 - 50m	High

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 55**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
F	135m NW	Clitheroe Event	2007-07-03 2007-07-04	Drainage	Local drainage/surface water	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.

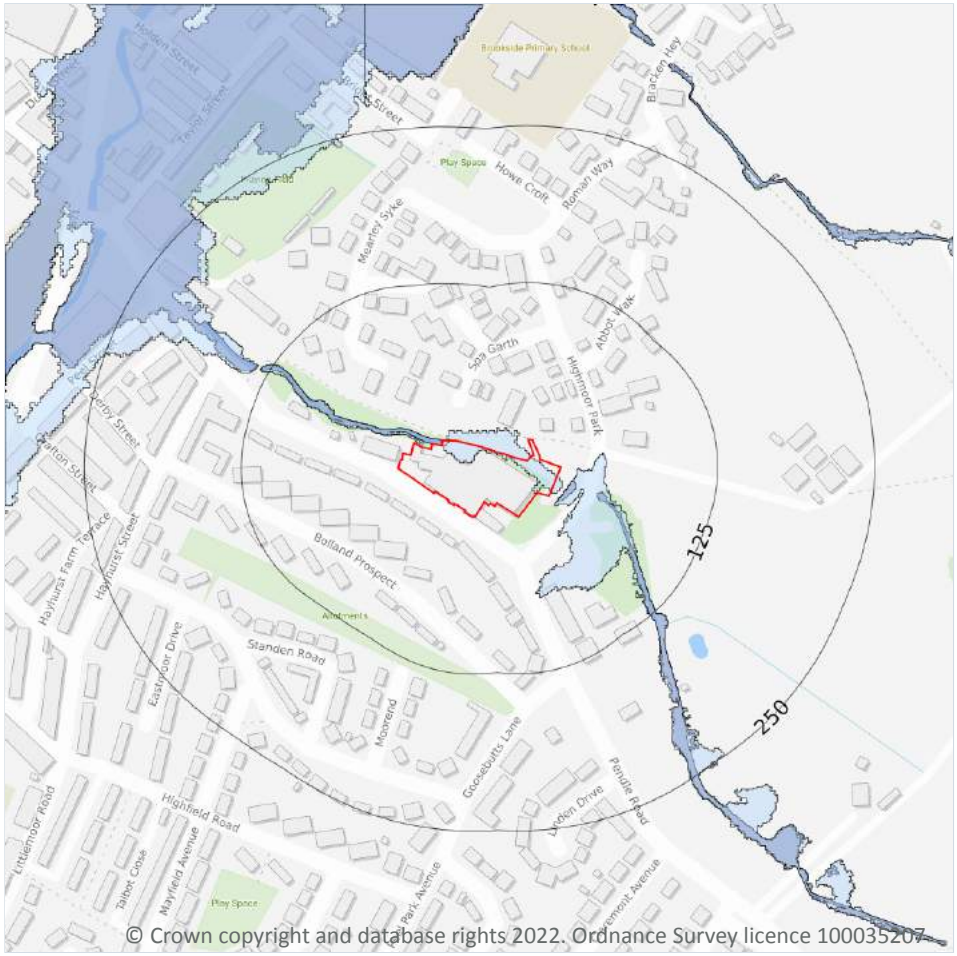
7.5 Flood Storage Areas

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



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

7.6 Flood Zone 2

Records within 50m	1

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.

Features are displayed on the River and coastal flooding map on **page 55**

Location	Type
On site	**Zone 2 - (Fluvial /Tidal Models)**

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

7.7 Flood Zone 3

Records within 50m	1

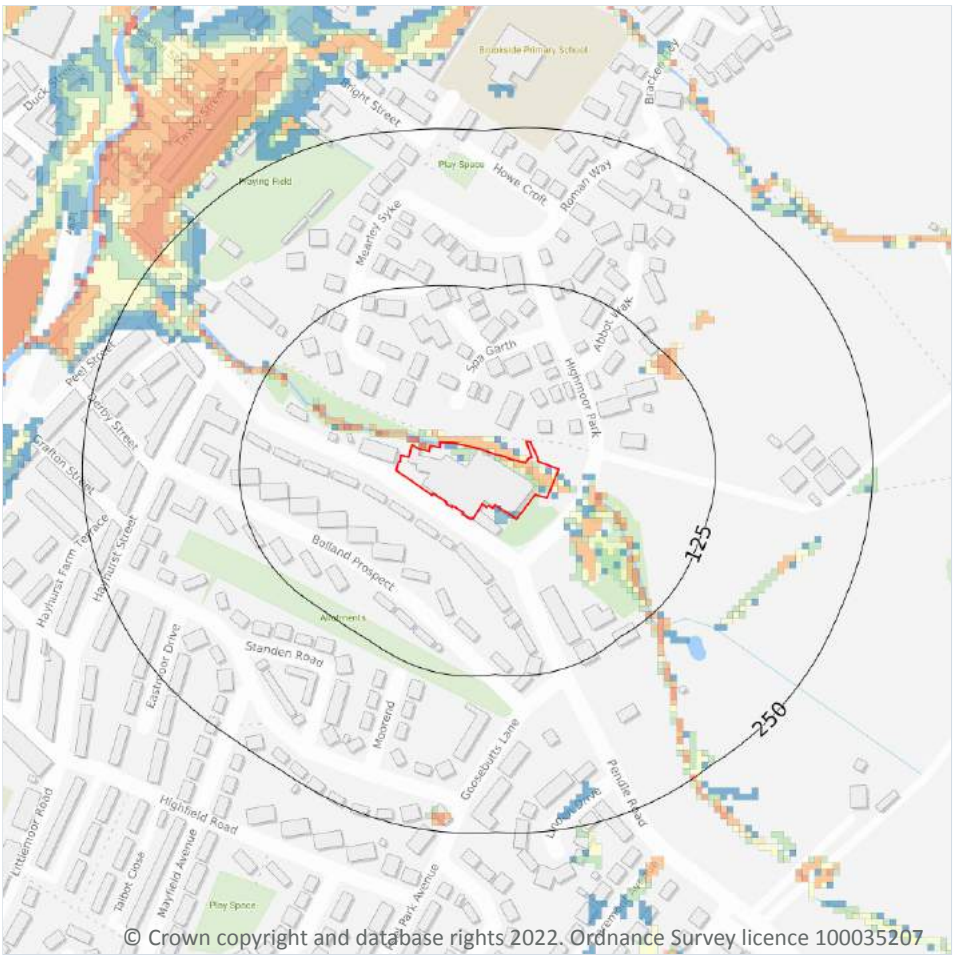
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 55**

Location	Type
On site	**Zone 3 - (Fluvial Models)**

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, Greater than 1.0m**

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

Features are displayed on the Surface water flooding map on **page 60**

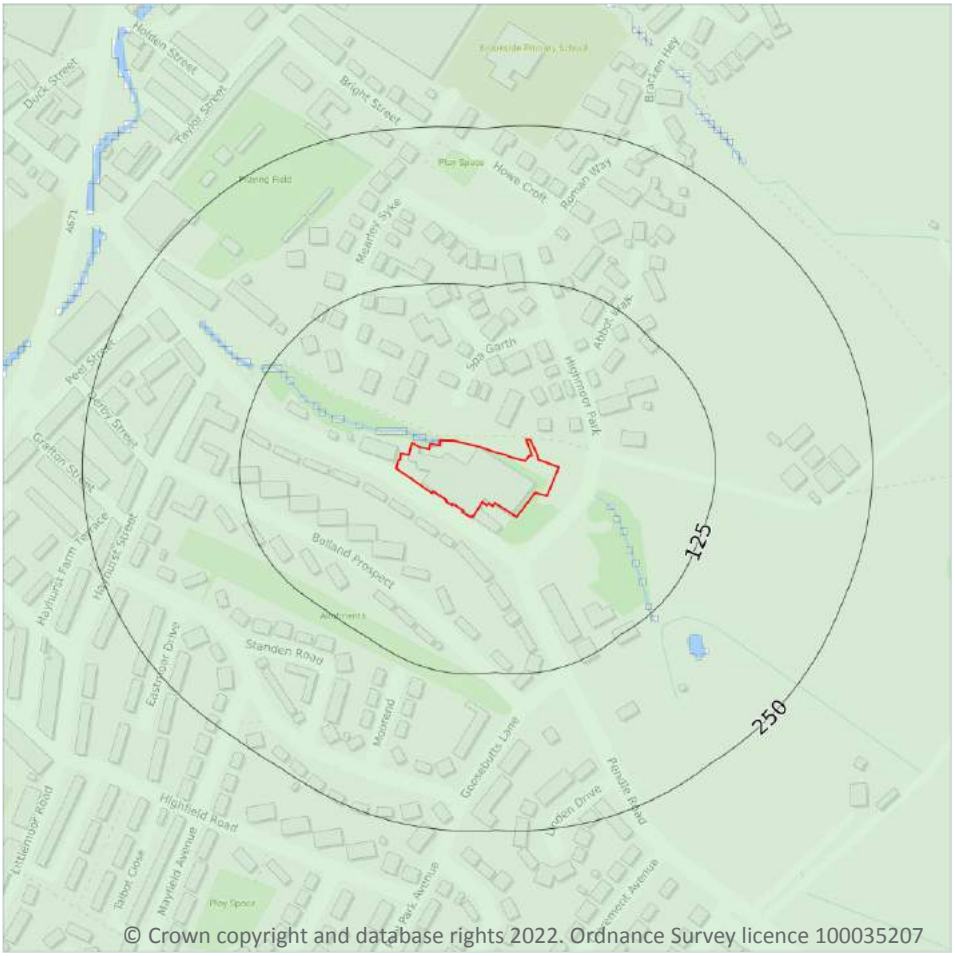
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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

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

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

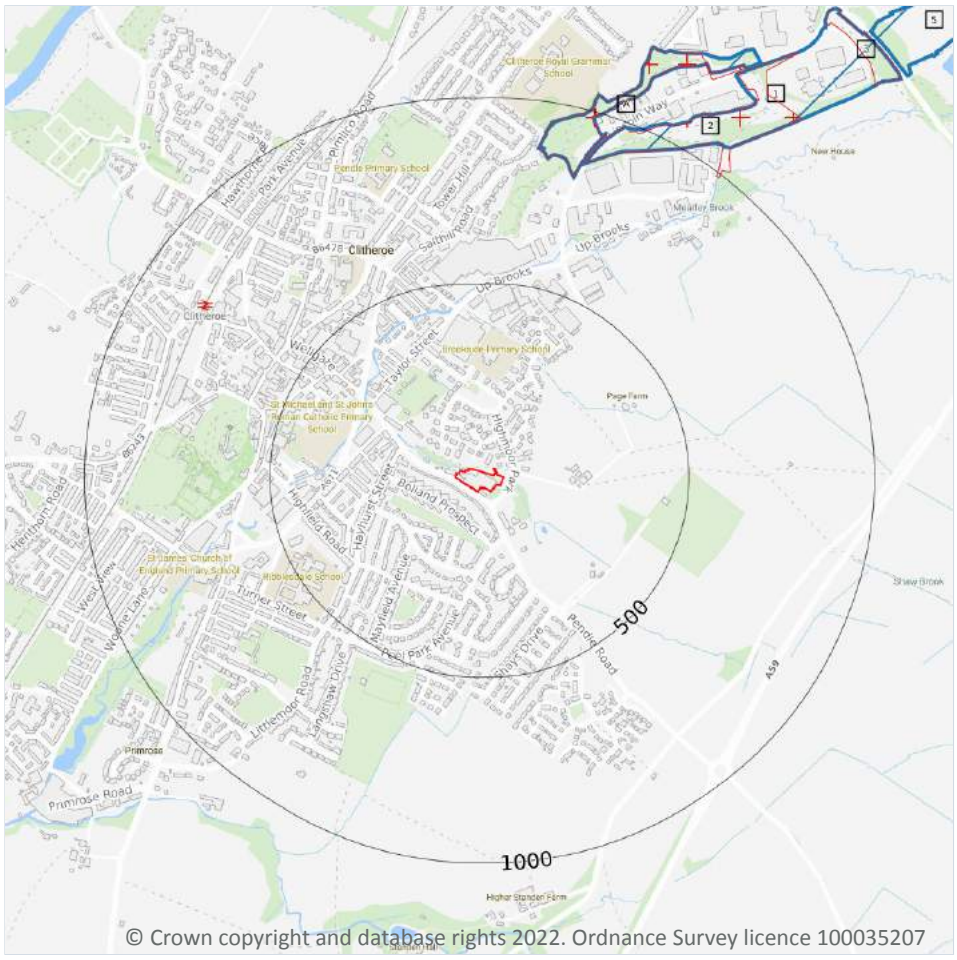
Highest risk on site	**Low**
Highest risk within 50m	**Low**

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 62**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Sites of Special Scientific Interest (SSSI)

Local Nature Reserves (LNR)

Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	4

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

Features are displayed on the Environmental designations map on **page 63**

ID	Location	Name	Data source
A	815m N	Salthill and Bellmanpark Quarries	Natural England

ID	Location	Name	Data source
1	859m N	Salthill and Bellmanpark Quarries	Natural England
-	1480m N	Coplow Quarry	Natural England
5	1535m NE	Salthill and Bellmanpark Quarries	Natural England

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	**0**

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	**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	4

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

Features are displayed on the Environmental designations map on **page 63**

ID	Location	Name	Data source
A	815m N	Salthill Quarry	Natural England
2	860m N	Salthill Quarry	Natural England
3	1453m NE	Salthill Quarry	Natural England
-	1600m N	Cross Hill Quarry	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m	1

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

Features are displayed on the Environmental designations map on **page 63**

ID	Location	Name	Woodland Type
-	1973m SW	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.

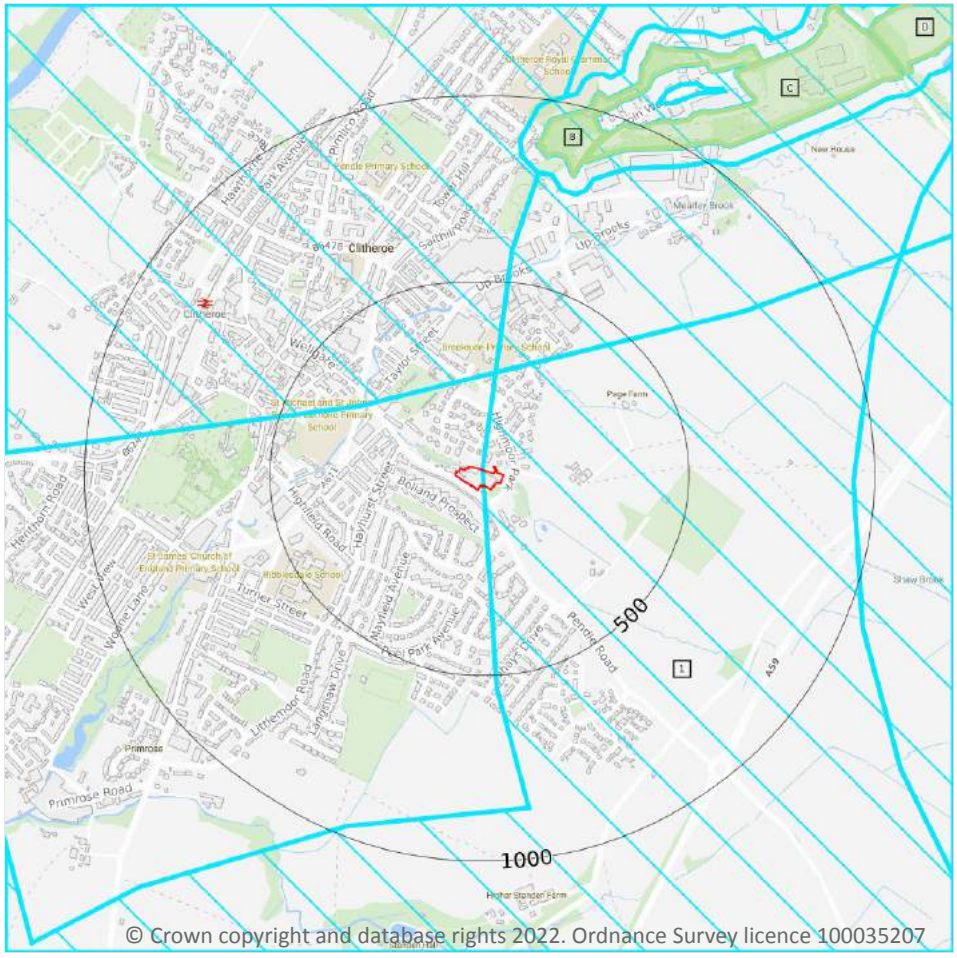
10.16 Nitrate Vulnerable Zones

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



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

Not recorded

Favourable

Unfavourable - Recovering

Unfavourable - No change

Unfavourable - Declining

Partially destroyed

Destroyed

10.17 SSSI Impact Risk Zones

Records on site	1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 68**

ID	Location	Type of developments requiring consultation
1	On site	**Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction.**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	4

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

Features are displayed on the SSSI Impact Zones and Units map on **page 68**

ID: B
Location: 815m N
SSSI name: Salthill and Bellmanpark Quarries
Unit name: Salthill Quarry
Broad habitat: Earth Heritage
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
ED - Dinantian	Favourable	09/11/2010

ID: C
Location: 859m N
SSSI name: Salthill and Bellmanpark Quarries
Unit name: Salthill Quarry
Broad habitat: Earth Heritage
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
ED - Dinantian	Favourable	09/11/2010

ID: -
Location: 1480m N
SSSI name: Coplow Quarry
Unit name: Whole Site
Broad habitat: Earth Heritage
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
ED - Dinantian	Unfavourable - Recovering	28/08/2012

ID: D
Location: 1535m NE
SSSI name: Salthill and Bellmanpark Quarries
Unit name: Bellmanpark Quarry
Broad habitat: Earth Heritage
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
EA - Dinantian	Favourable	05/11/2010

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	1

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 71**

ID	Location	Name	Grade	Reference Number	Listed date
1	170m NW	Ashgrove Shaw Cottage, Clitheroe, Ribble Valley, Lancashire, BB7	II	1164286	19/05/1950

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.

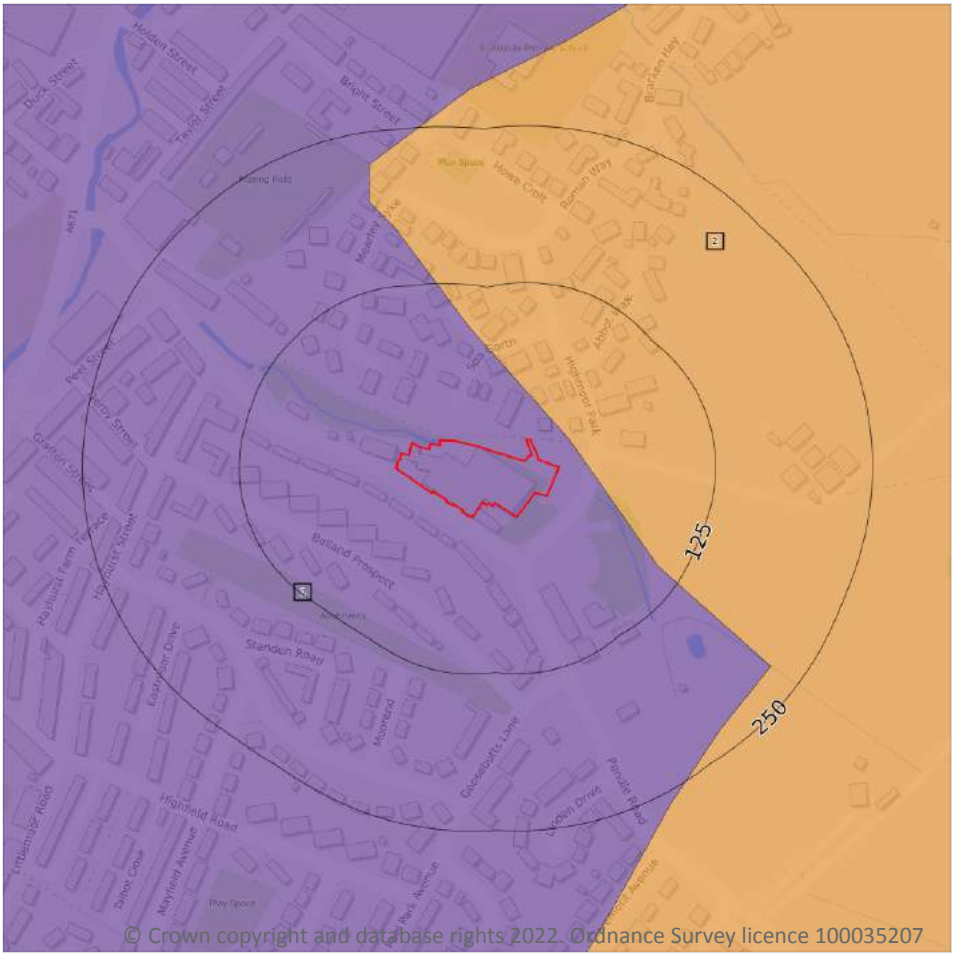
11.7 Registered Parks and Gardens

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 74**

ID	Location	Classification	Description
1	**On site**	**Urban**	**-**
2	20m NE	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.

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

13.1 Priority Habitat Inventory

Records within 250m	0

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

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0

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

This data is sourced from Natural England.

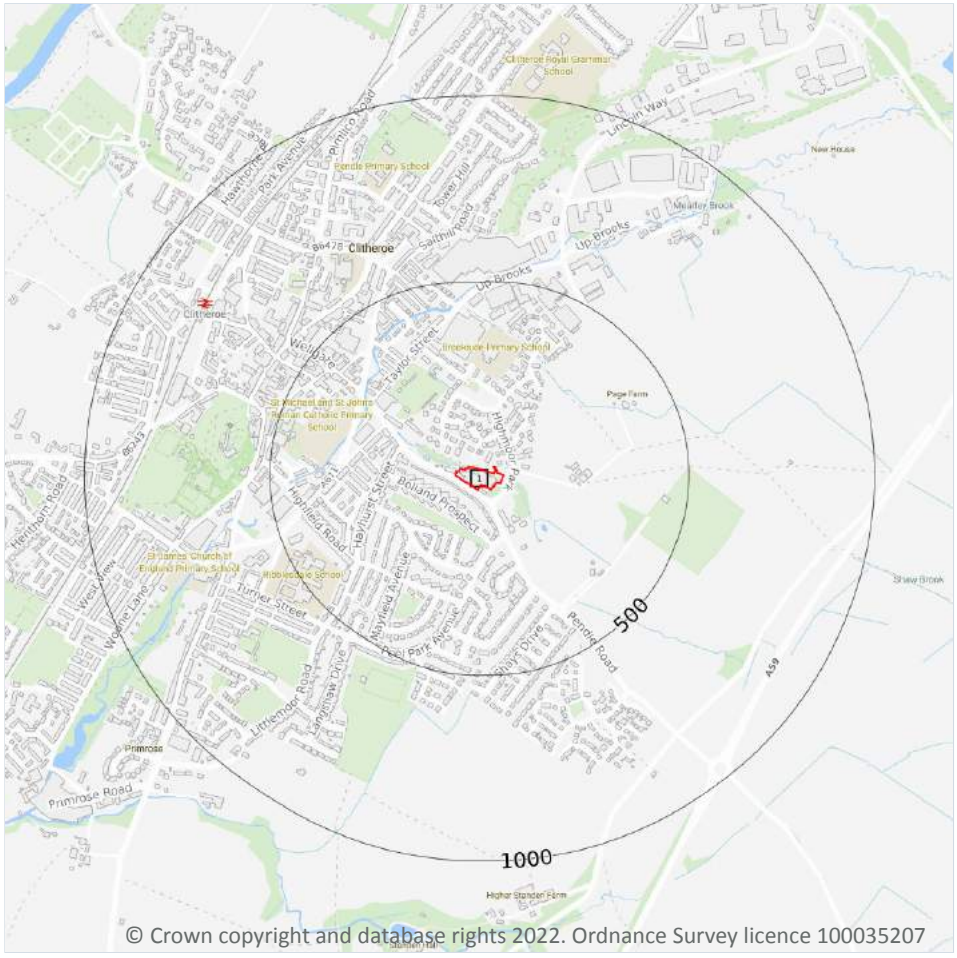
13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

Records within 500m	1

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

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

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

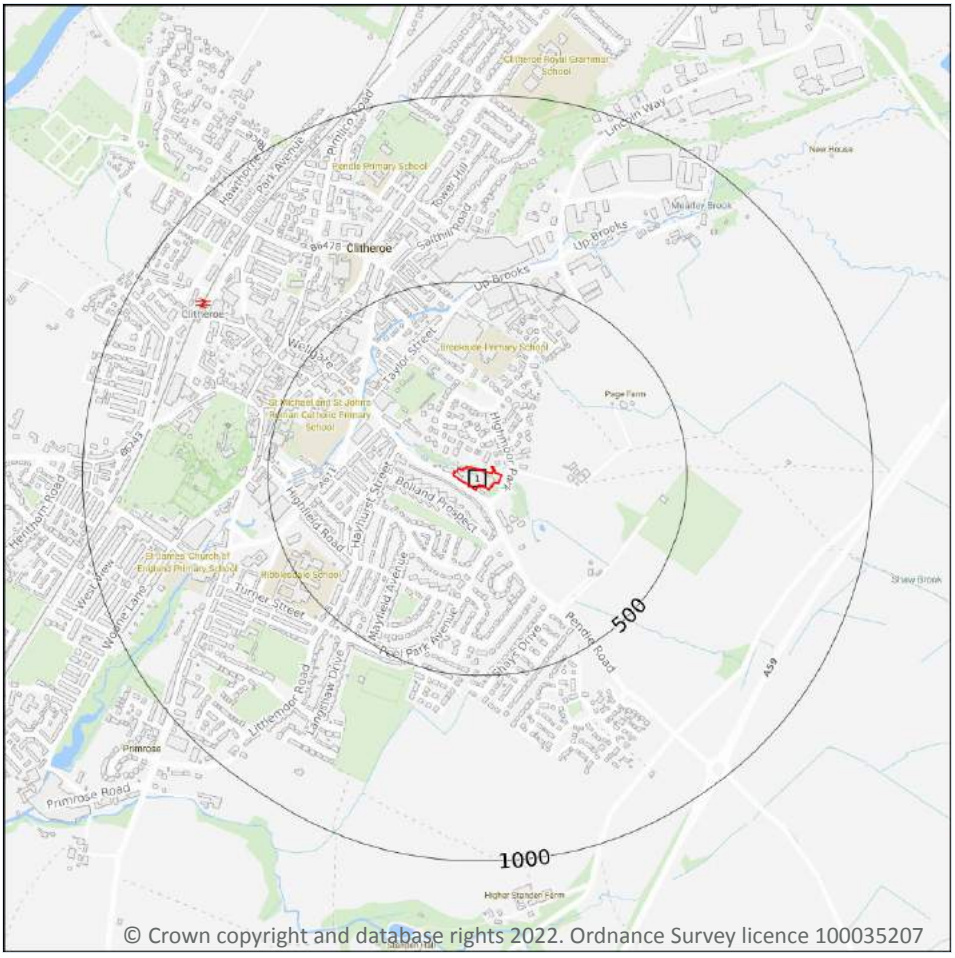
14.6 Bedrock faults and other linear features (10k)

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 81**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**No coverage**	**Full**	**Full**	**Full**	**EW068_clitheroe_v4**

This data is sourced from the British Geological Survey.

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

15.2 Artificial and made ground (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

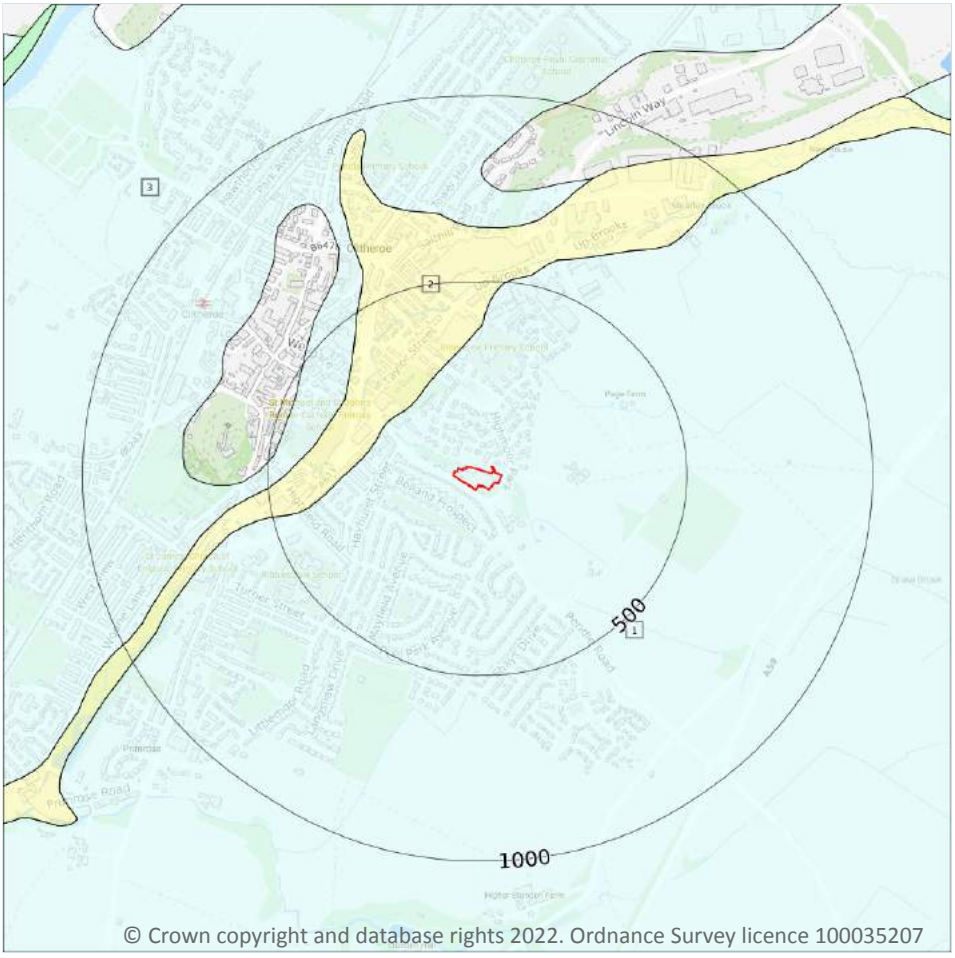
15.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m **3**

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 83**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**TILLD-DMTN**	**TILL, DEVENSIAN**	**DIAMICTON**
2	211m NW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
3	354m NW	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

This data is sourced from the British Geological Survey.

15.5 Superficial 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 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**
19m E	Mixed	High	Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

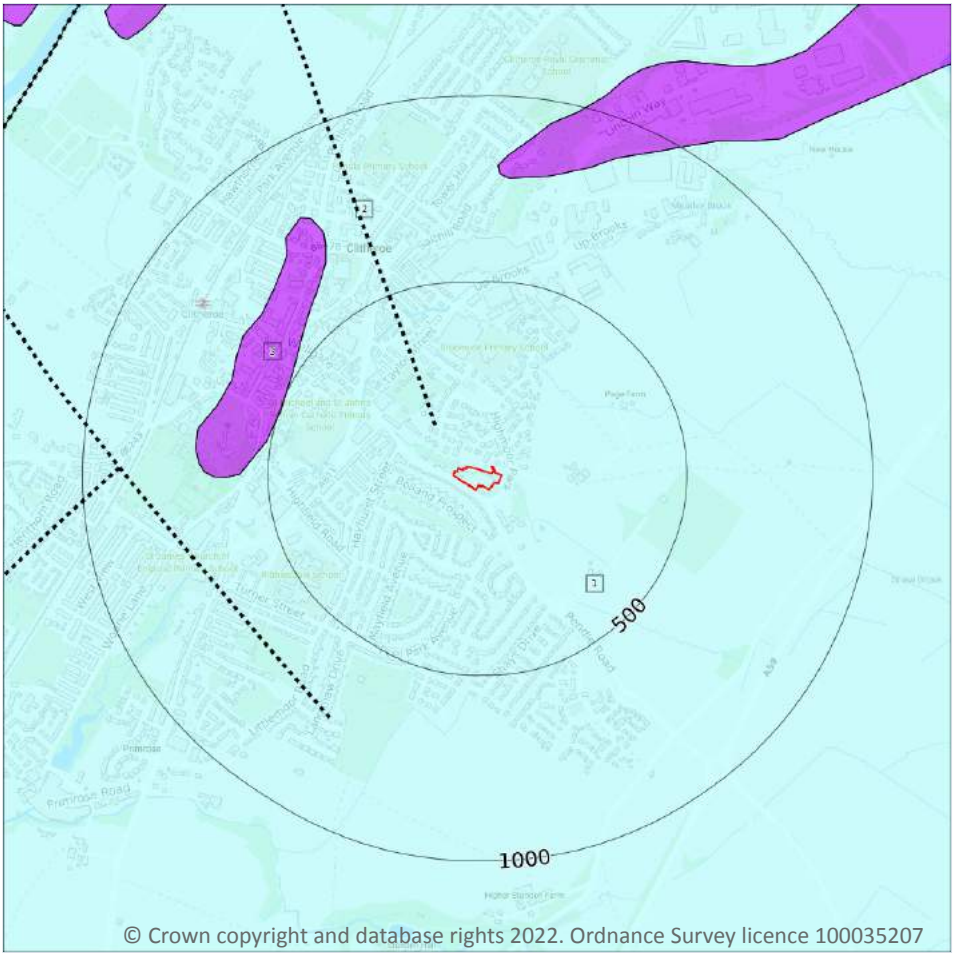
15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m	2

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 85**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**CLHOM-MDST**	**CLITHEROE LIMESTONE FORMATION AND HODDER MUDSTONE FORMATION (UNDIFFERENTIATED) - MUDSTONE**	**VISEAN**
3	497m W	CLLK-LMST	CLITHEROE LIMESTONE FORMATION (KNOLL-REEF) - LIMESTONE	VISEAN

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**	**Very High**	**Low**
19m E	Fracture	Very High	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	1

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 85**

ID	Location	Category	Description
2	130m NW	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.

16 Boreholes

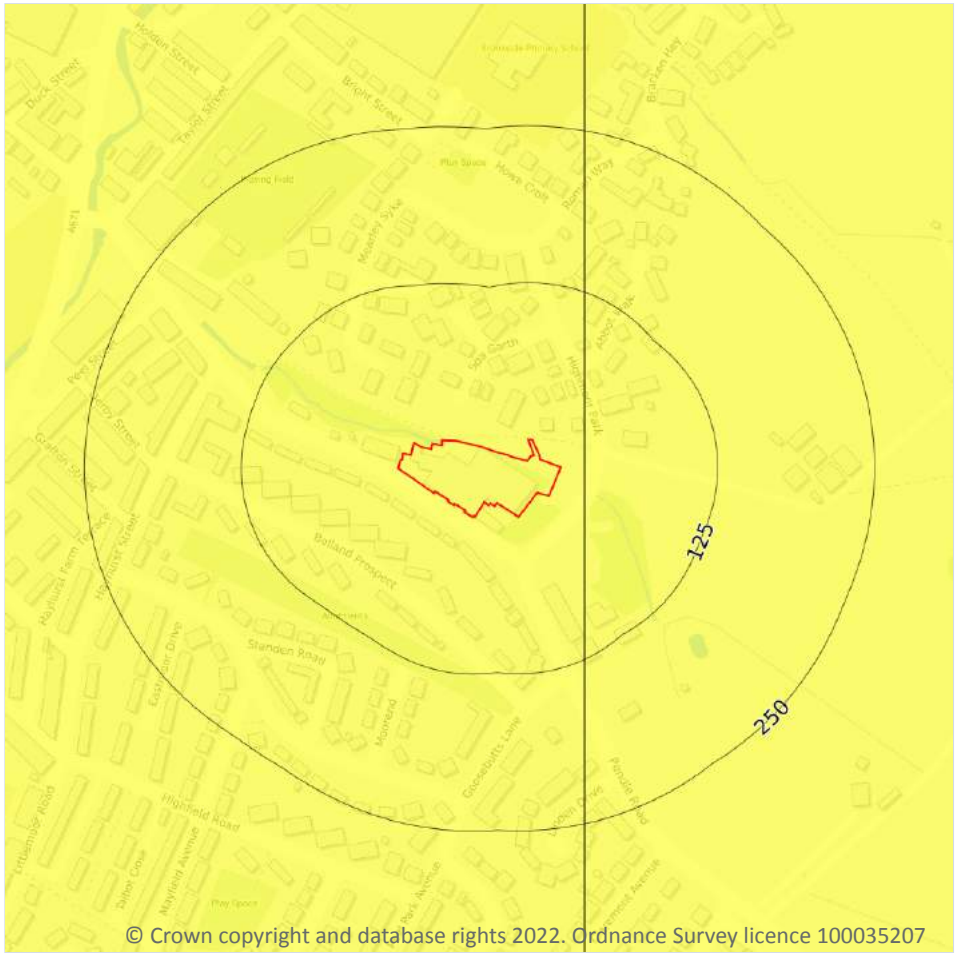
16.1 BGS Boreholes

Records within 250m	0

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

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m	2

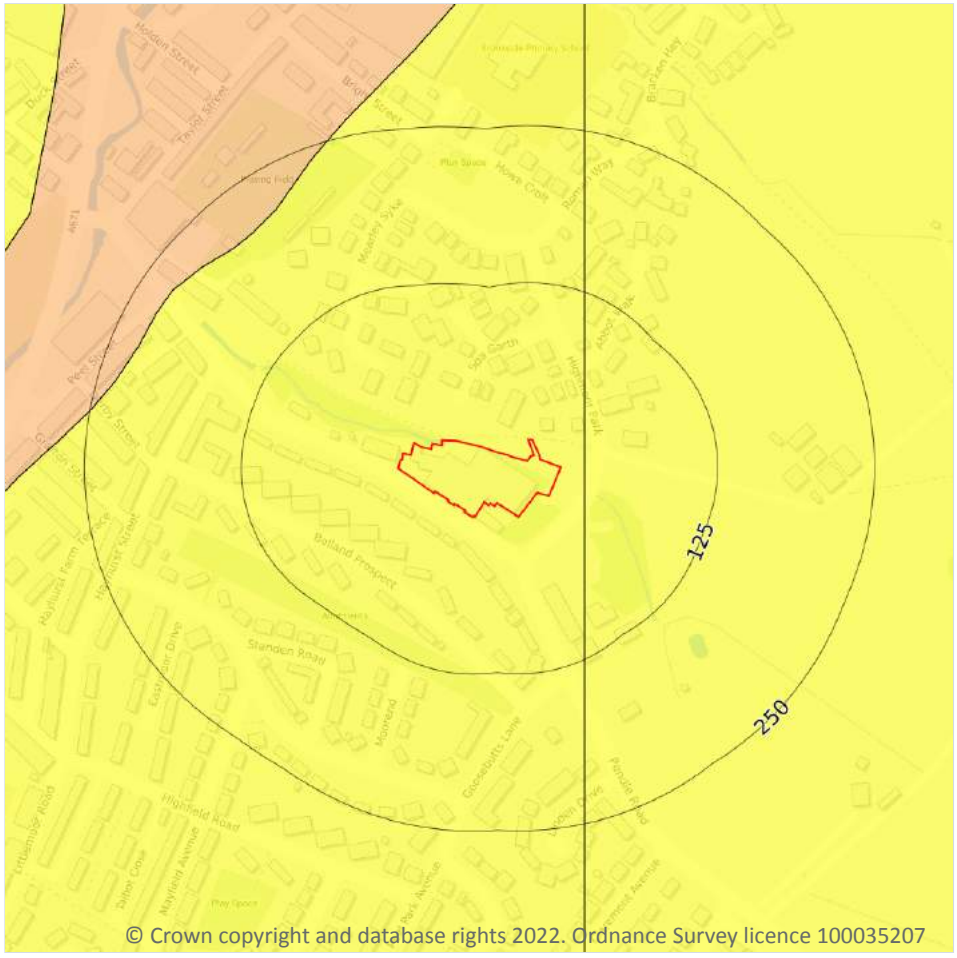
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 88**

Location	Hazard rating	Details
On site	**Very low**	**Ground conditions predominantly low plasticity.**
19m E	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

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

17.2 Running sands

Records within 50m	2

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

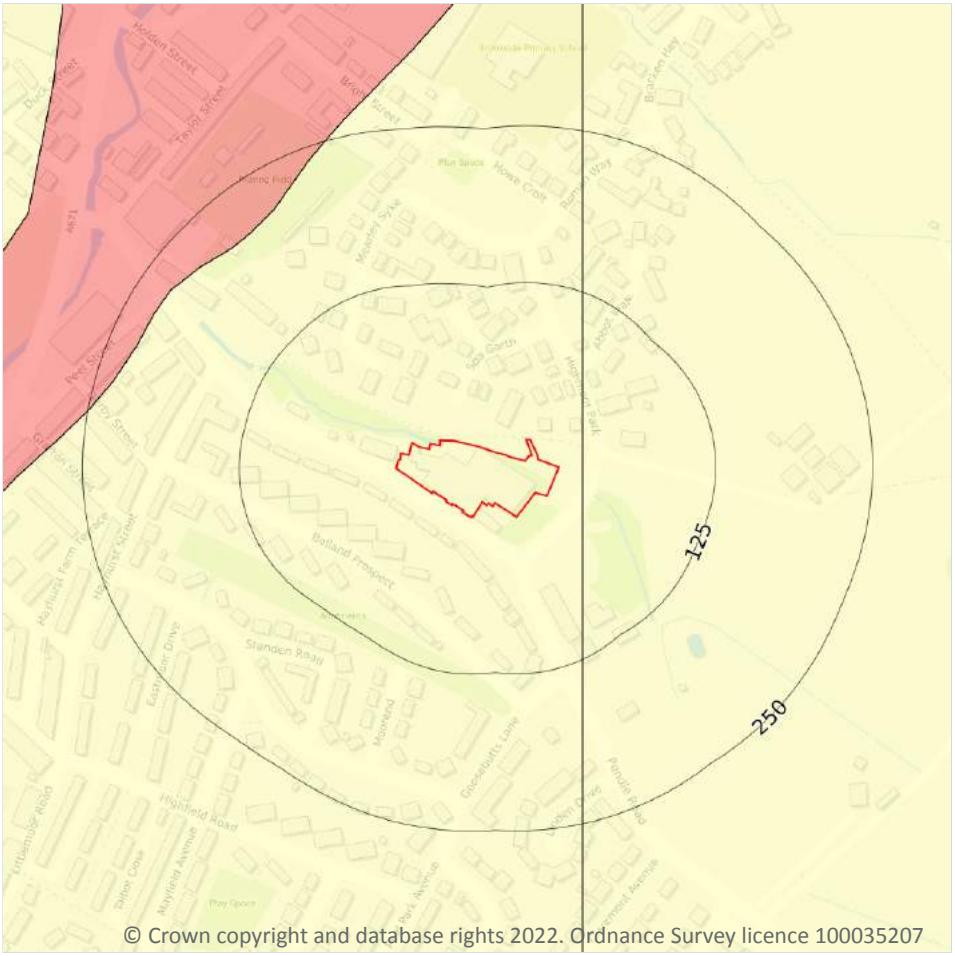
Features are displayed on the Natural ground subsidence - Running sands map on **page 89**

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.**

Location	Hazard rating	Details
19m E	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	2

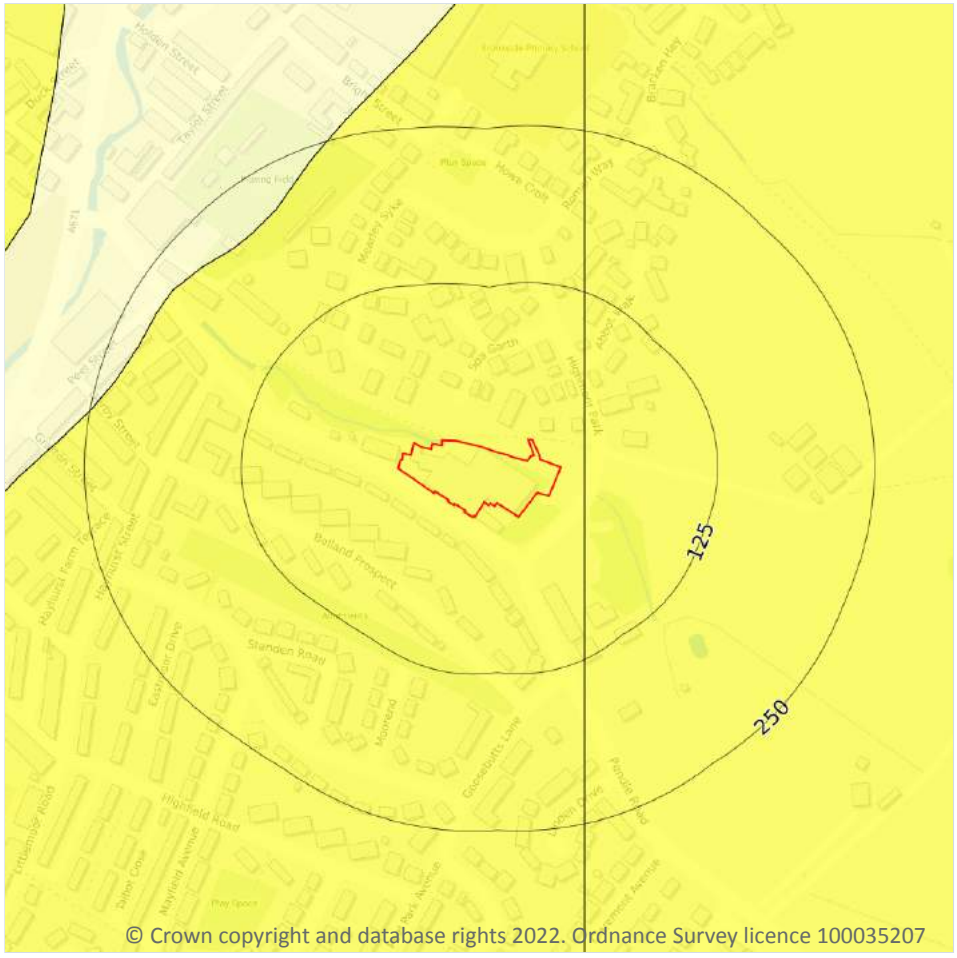
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

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

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**
19m E	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	2

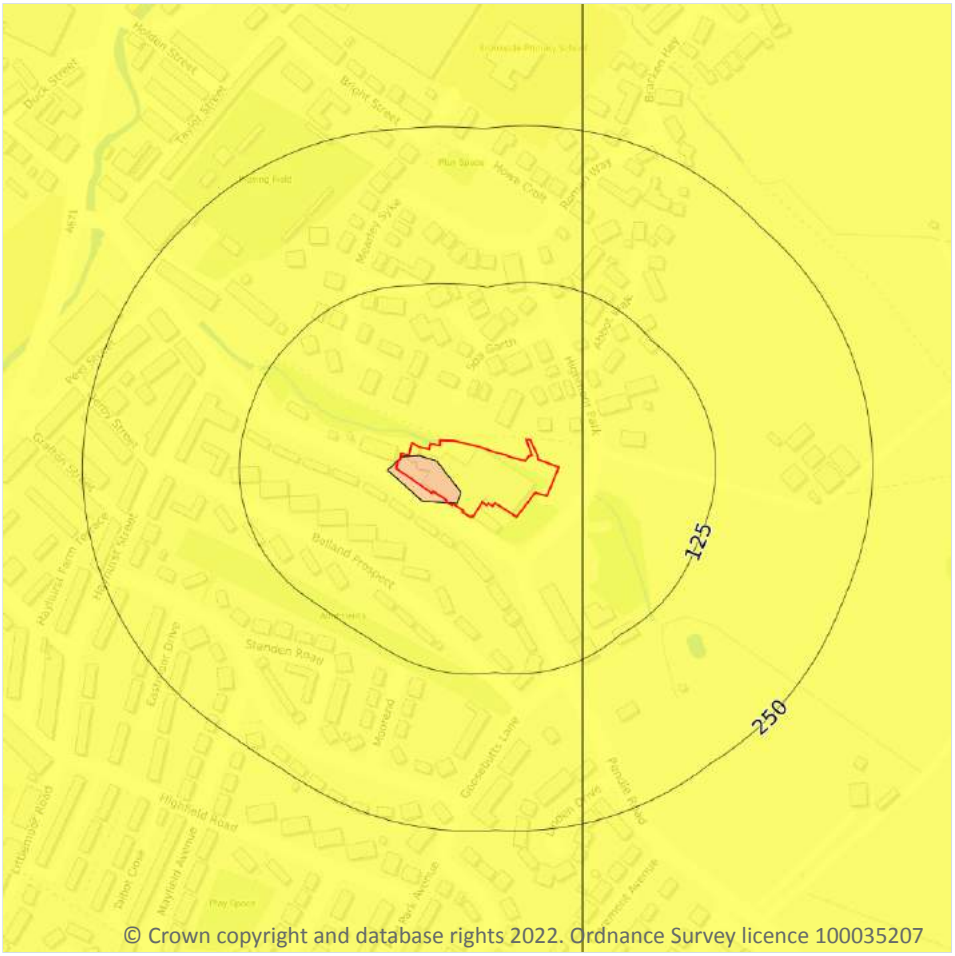
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

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

Location	Hazard rating	Details
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely to be present.**
19m E	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m	3

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.

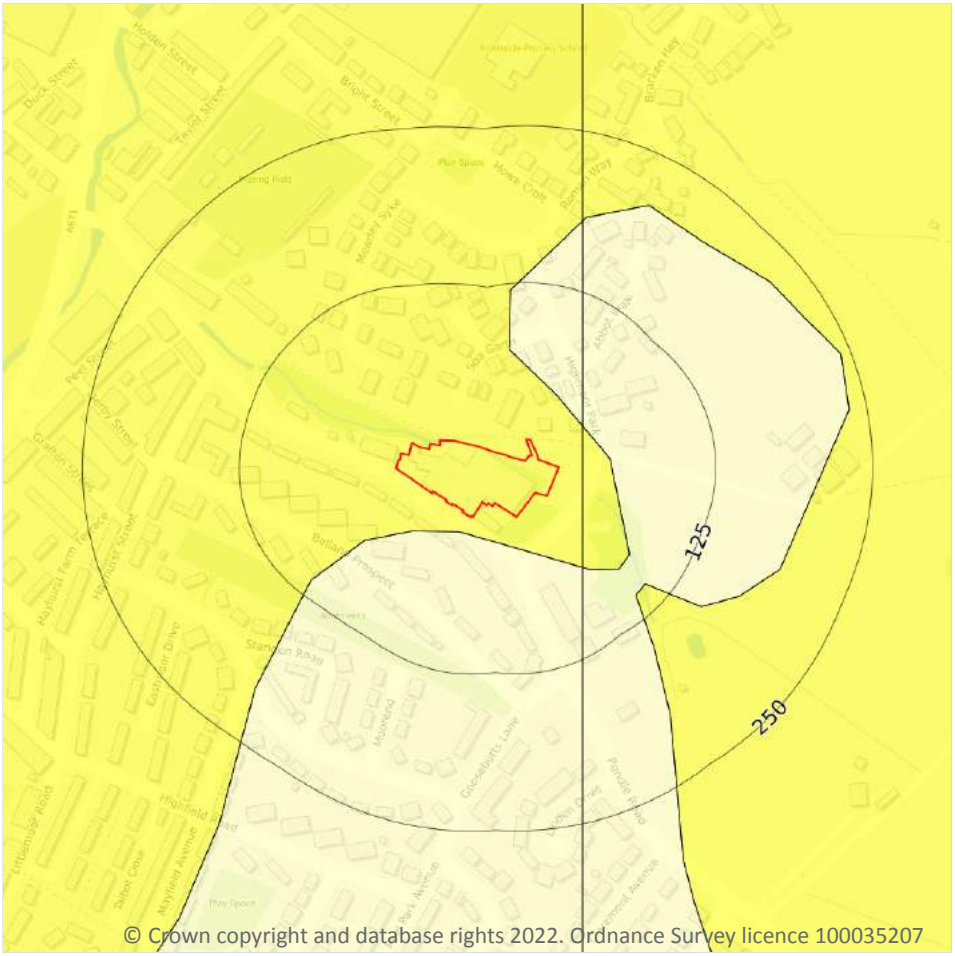
Features are displayed on the Natural ground subsidence - Landslides map on **page 93**

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

Location	Hazard rating	Details
On site	**Low**	**Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.**
19m E	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	5

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.

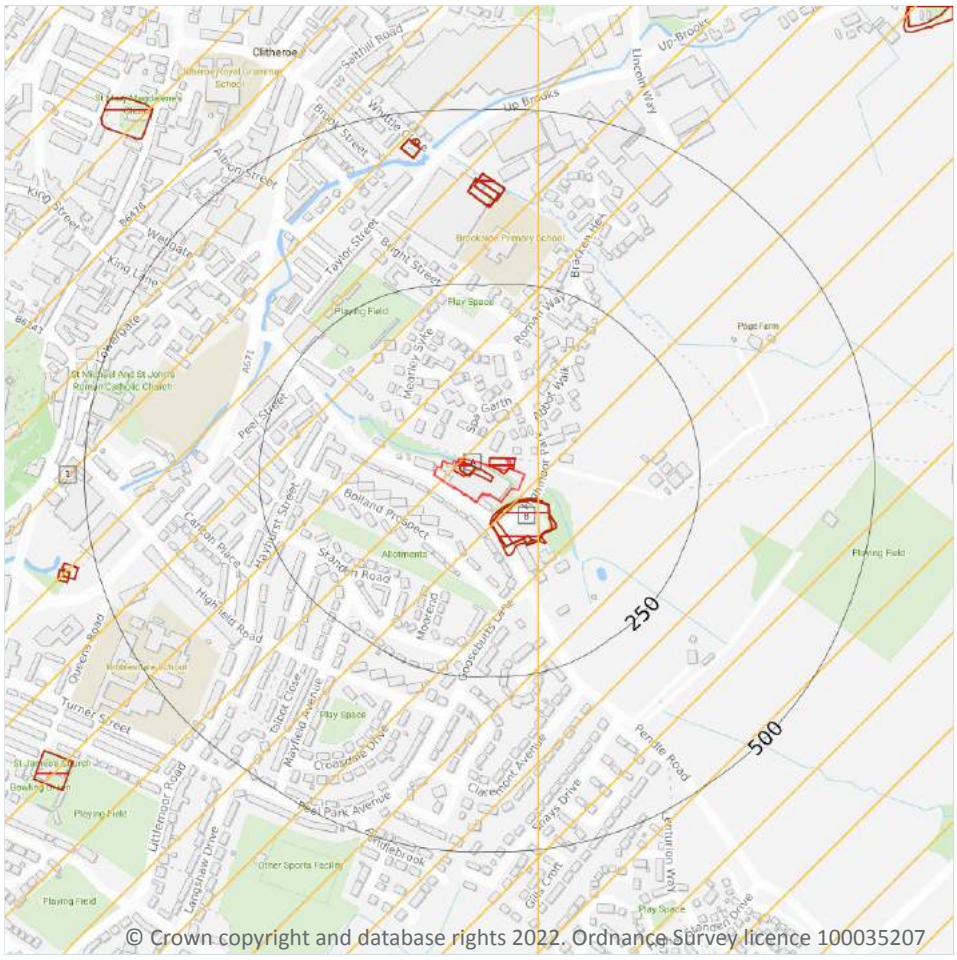
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 95**

Location	Hazard rating	Details
On site	**Very low**	**Soluble rocks are present within the ground. Few dissolution features are likely to be present. Potential for difficult ground conditions or localised subsidence are at a level where they need not be considered.**

Location	Hazard rating	Details
14m S	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.
19m E	Very low	Soluble rocks are present within the ground. Few dissolution features are likely to be present. Potential for difficult ground conditions or localised subsidence are at a level where they need not be considered.
36m NE	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.
38m NE	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.

18 Mining, ground workings and natural cavities



Site Outline

Search buffers in metres (m)

- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities

Non Coal Mining

- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m	0

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

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m	9

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 97**

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Reservoirs**	**1938**	**1:10560**
A	**On site**	**Reservoirs**	**1930**	**1:10560**
A	**On site**	**Reservoirs**	**1955**	**1:10560**
A	**On site**	**Pond**	**1846**	**1:10560**
B	8m SE	Pond	1846	1:10560
B	10m SE	Reservoir	1938	1:10560
B	10m SE	Reservoir	1930	1:10560
B	10m SE	Reservoir	1910	1:10560
B	15m S	Reservoir	1955	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 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.

18.5 Historical Mineral Planning Areas

Records within 500m	0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	2

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

Features are displayed on the Mining, ground workings and natural cavities map on **page 97**

ID	Location	Name	Commodity	Class	Likelihood
1	**On site**	**Not available**	**Vein Mineral**	**B**	**Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered**
2	19m E	Not available	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	0

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

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

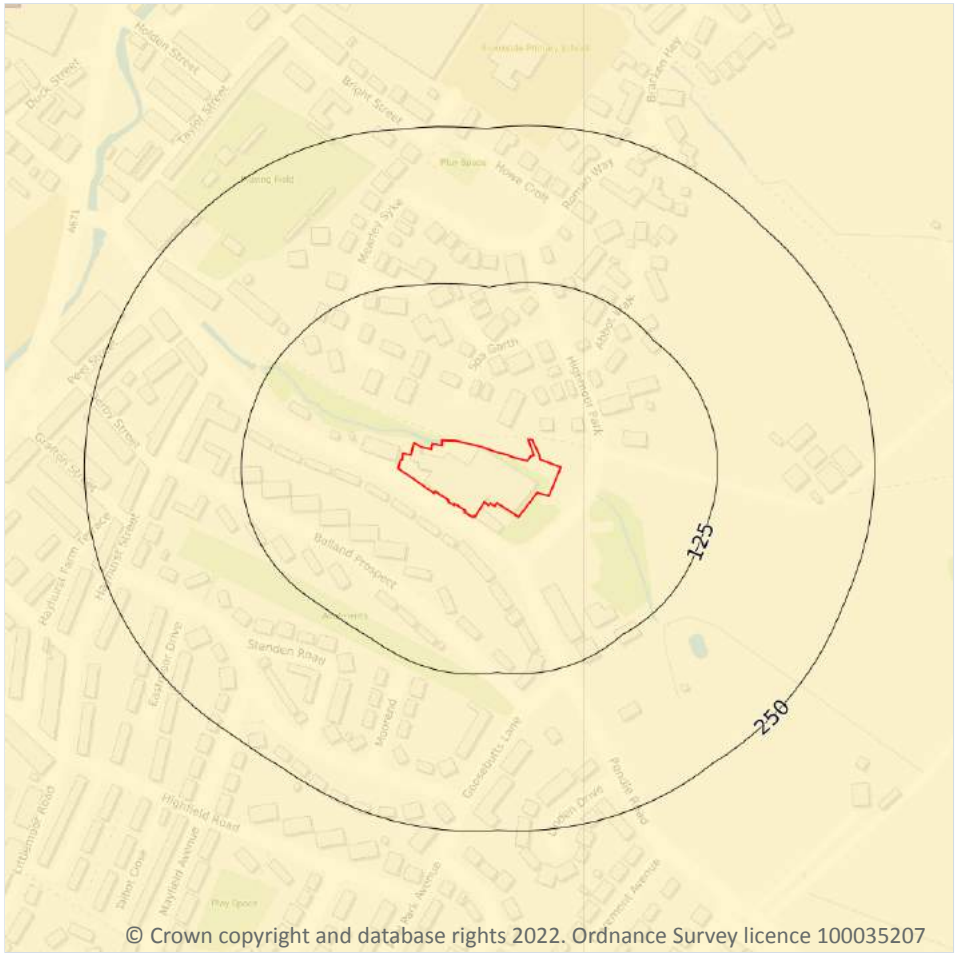
18.13 Clay mining

Records on site	0

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Radon



Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

19.1 Radon

Records on site	1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 102**

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

This data is sourced from the British Geological Survey and Public Health England.

20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m	4

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
19m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
19m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
46m SE	15 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.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km^2).

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects

21.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m	0

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

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m	0

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m	0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m	0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m	0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m	0

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

This data is sourced from HS2 ltd.

Data providers

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

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: https://www.groundsure.com/terms-and-conditions-jan-2020/.

APPENDIX C

Preliminary Conceptual Model

POTENTIAL RECEPTOR	COMMENTS	Include in PCM
PROPERTY: Other		
On Site		
Crops	None intended on site	×
Domestic Produce	May be grown in garden/landscaped areas	✓
Livestock	None anticipated on site	×
Domestic Animals	May be owned by site occupants	✓
Game	None on site	×
Off Site		
Crops	Possibly in fields in vicinity of the site	✓
Domestic Produce	Possibly in houses in vicinity of the site	✓
Livestock	Possibly in fields in vicinity of the site	✓
Domestic Animals	May belong to adjacent residents	✓
Game	Not applicable	×
PROPERTY: Buildings		
On Site		
	Properties, services, flora	✓
Off Site		
	Residential Properties, services, flora	✓
HUMANS		
On Site		
Residents	Future Site Users	✓
Construction workers	During ground excavations	✓
Employees	Care home employees	✓
Surface water users	No current surface water abstractions located within 250 m of the site	×
Off Site		
Residents	Residents adjacent to the site	✓
Recreational users	Not applicable	×
Groundwater users	No groundwater abstractions within 250 m.	×
Controlled Waters		
On Site		
Surface Waters	Shaw Brook which runs east to west within a culvert beneath the site	✓
Groundwater	The superficial strata (Boulder Clay) is classified by the EA as a 'Secondary (Undifferentiated) Aquifer'. This strata is relatively impermeable and any water trapped/held within the deposits are not considered to represent a sensitive receptor. The underlying bedrock is classified as a Secondary B Aquifer and is unlikely to be impacted due to the presence of laterally continuous Boulder Clay which will inhibit vertical migration of contamination to the underlying bedrock.	×
Off Site		
Controlled Waters	No significant surface water features located within 250 m of the site. No active groundwater abstraction wells located within 250 m	×
Ecological Systems		
On/Off Site		
SSSIs, national nature reserves, SACs etc	Not applicable to the site	×

Table A: Potential Receptors to be considered in the Preliminary Conceptual Model

Link	Source	Hazard	Transport Mechanism	Pathway	Medium of Exposure	Receptor	Risk Summary*
1	Contaminated soils	Direct contact /ingestion of soil or dust	Direct contact with contaminated soil	Dermal contact/ingestion of soil at surface	Soil	Humans (on-site/off-site), domestic pets	Low-Medium
2	Contaminated soils	Particulate inhalation	Wind blown particulates	Inhalation of particulates	Air	Humans (on-site/off-site), domestic pets	Medium
3	Contaminated Soils/Organic Risk Natural Soils	Indoor Inhalation of Ground Gas	Migration of ground gas through unsaturated zone of soil leading to inhalation	Inhalation of Ground Gas	Air	Humans (on-site/off-site), domestic pets	Low-Medium
4	Contaminated Soils	Vapour Inhalation	Volatalisation of organic compounds through unsaturated zone of soil leading to inhalation	Inhalation of Vapours	Air	Humans (on-site/ off-site, domestic pets)	Low
6	Contaminated Soils	Damage to structure/services	Direct contact of contaminants with building structures/services	Direct contact	Soil/Water	Flora, services	Low-Medium
7	Contaminated Soils	Degradation of Surface waters	Dissolution or suspension of contaminants into Shaw Brook	Dissolution or Suspension	Water	Shaw Brook	Low-Medium

Table B: *Preliminary Conceptual Model*

*Relative Risk Screening and Prioritisation for further Investigation & or Assessment

High	Higher probability of occurrence and identification of primary sources of contamination with respect to most sensitive receptors.
Medium	Pollutant linkage generally dependent on the presence of other primary pollutant linkages and/or where pollutant linkage generally associated with less sensitive receptors.
Low	Lower probability of occurrence such as based on requirement for significant migration pathway or where pollutant linkage requires the presence of source contaminants at concentration likely to be much higher than other identified pollutant linkages.

APPENDIX D

Photographs

P1: Entrance to site from Pendle Road

P2: North eastern façade of the site

P3: View of south of site from Pendle Road

P4: View from north-west of site

P5: North western façade of mill building

P6: North western façade of building (note grassed/hardstanding area is area of former reservoir)

Comments:

GEO-ENVIRONMENTAL CONSULTING ENGINEERS

Photographs 1 to 6

This appendix is for illustrative purposes only and is for use only in conjunction with associated reports relating to the project	**Site:** Pendle Mill, Clitheroe	**Project No:** 22051	**Created By:** DE	**Date:** April 2022
	Title: Appendix D – Site Photographs	**Client:** Muller Strategic Projects Ltd		

P7: Service yard/car parking in west of site

P8: Electrical substation in west of site

P9: Car parking area at ground floor level associated with Furniture shop (storage/service yard beneath)

P10: Culvert exit in north-west of site (viewed from site)

P11: Storage areas within Mill building

P12: General rubbish in north-west of site

Comments:

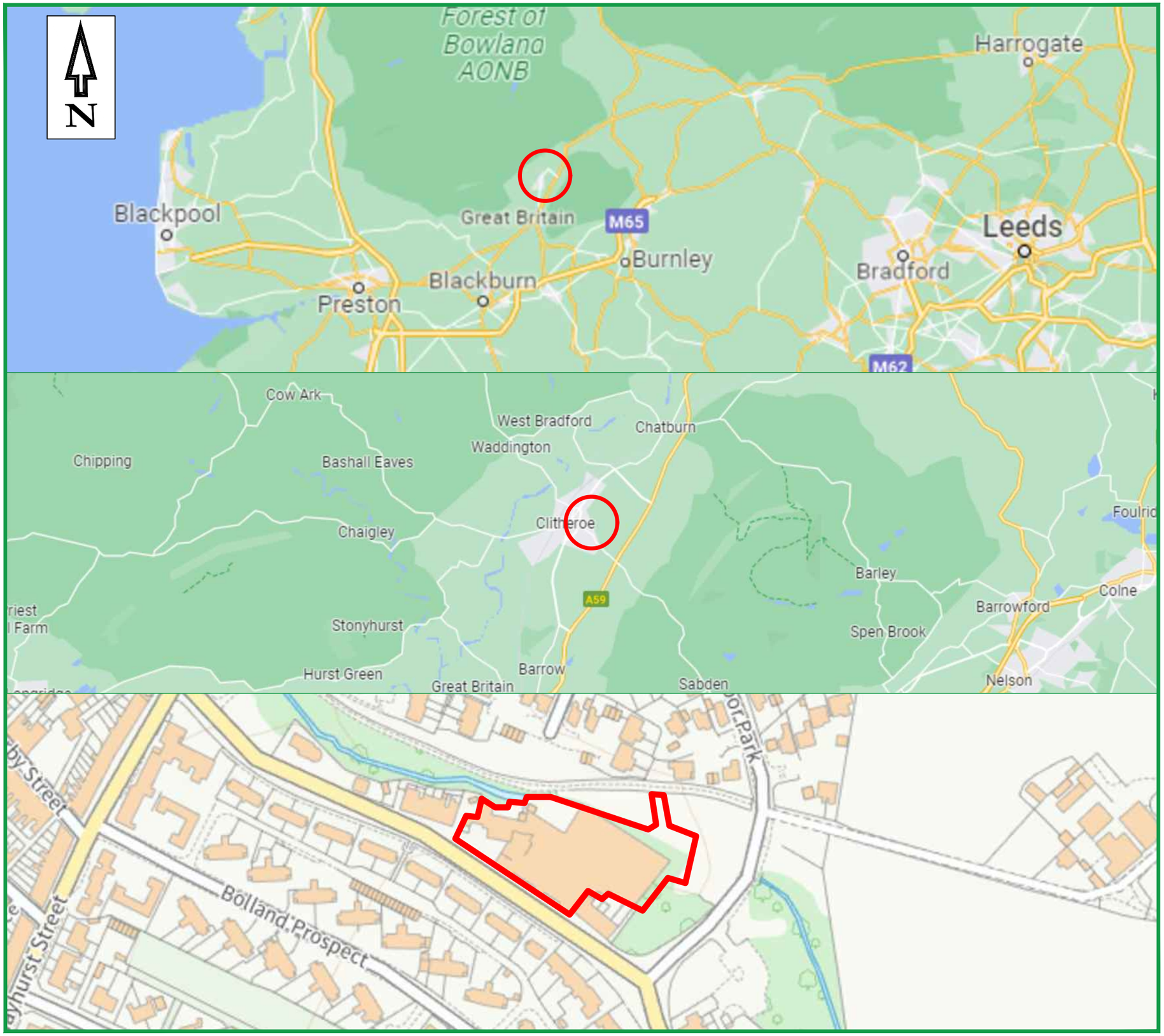
GEO-ENVIRONMENTAL CONSULTING ENGINEERS

Photographs 7 to 12

This appendix is for illustrative purposes only and is for use only in conjunction with associated reports relating to the project	**Site:** Pendle Mill, Clitheroe	**Project No:** 22051	**Created By:** DE	**Date:** April 2022
	Title: Appendix D – Site Photographs	**Client:** Muller Strategic Projects Ltd		

APPENDIX E

Drawings



LEGEND

SITE LOCATION

REV	DESCRIPTION	DATE	BY

GEO-ENVIRONMENTAL CONSULTING ENGINEERS
Suite One, No 3 Mitton Road Business Park,
Mitton Road, Whalley, Lancashire, BB7 9YE
Tel: 01254 377 622
Email: mbuckley@bekenviro.co.uk
Web: www.bekenviro.co.uk

CLIENT.
MULLER STRATEGIC PROJECTS LIMITED

JOB TITLE.
PENDLE MILL, PENDLE ROAD, CLITHEROE

DRAWING TITLE.
SITE LOCATION PLAN

SCALE @ A3.	DRAWN BY.	APPROVED BY.	DATE.
NTS	D.E.	M.B.	07/04/22

DRAWING No. 22051-1

REV. -

LEGEND

SITE FOOTPRINT

REV	DESCRIPTION	DATE	BY

GEO-ENVIRONMENTAL CONSULTING ENGINEERS
Suite One, No 3 Mitton Road Business Park,
Mitton Road, Whalley, Lancashire, BB7 9YE
Tel: 01254 377 622
Email: mbuckley@bekenviro.co.uk
Web: www.bekenviro.co.uk

CLIENT.

MULLER STRATEGIC PROJECTS LIMITED

JOB TITLE.

PENDLE MILL, PENDLE ROAD, CLITHEROE

DRAWING TITLE.

SITE LAYOUT PLAN

SCALE @ A3.	DRAWN BY.	APPROVED BY.	DATE.
NTS	D.E.	M.B.	07/04/22

DRAWING No.	REV.
22051-2	-

Site Area -
4044m² (0.40 hectares)

MÜLLER

Rev	Date	Revision Description	Drawn By	Approved By
L	16/05/24	Site plan updated to accommodate updated plans	LW	JB
K	18/04/24	Site plan updated to accommodate updated plans	LW	JB
J	19/01/24	Site boundary updated	LW	JB
I	18/01/24	Site area updated	LW	JB
H	12/01/24	Site Boundary updated	LW	JB
G	07/11/23	Drawing updated according to client comments	CFF	JB
F	18/06/23	Turning head has been added to the drawing as per the Transport Consultant Report	ES	JB
E	05/05/23	Garden Terrace/Retaining Walls added	ES	JB
D	03/05/23	EV charge point added	ES	JB
C	01/12/22	Layout ammended to accomodate client comments	PB	JB
B	06/09/22	Redline boundary has been updated to suit the title plan	JB	JB
A	08/08/22	Site Plan has been updated to accommodate planning officer's comments.	CM	JB
-	17/06/22	Original Drawing	CM	JB

ADG ARCHITECTS
6 Pioneer Court, Darlington, DL1 4WD
t: 01325 464 111
e: studio@adgarchitects.co.uk
w: www.adgarchitects.co.uk

Client
Muller Property Group

Project Information
Proposed 75 Bed Care Home, Pendle Road, Clitheroe

Drawing Title
Proposed Site Plan

A1 Scale	A3 Scale
1:200	

Job Number	Drawing Number	Revision
H.21.78	(9-) 3	L

Drawing Issue
PLANNING

MÜLLER