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DATA ACQUISITION
CONSULTANCY

Phase 1 Desk Study Site Investigation Report

LOCATION	1 & 1A Sparks Road, Huddersfield, HD3 4BX
ISSUE DATE	August 2024
FOR	Oakes Manor Construction Ltd
CLIENT REF.	
OUR REF.	G24227

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Executive Summary

The major conclusions of this desk-based Phase one study are summarised in the table below:

Site Suitability	Desk Study Finding	Preliminary Assessment
Normal Foundations	Bedrock potentially present at shallow depth with possible thin drift deposits. A potential for made/infilled ground has been identified.	Unclear
Soakaways	Sandstone bedrock unlikely to offer sufficient permeability.	Unlikely to be suitable

Potential Risks	Desk Study Finding	Preliminary Risk Assessment
Radon Gas	Less than 1% of properties affected.	Negligible
Chemical Contamination	Historical nearby and on-site land uses potentially giving rise to a range of inorganic and organic contaminants including asbestos, metals/metalloids, PAHs and petroleum hydrocarbons.	Low
Hazardous Gas	Potential for hazardous gas to be generated in made/infilled ground deposits.	Low
Ground Instability/ subsidence	Potential for significant deposits of compressible made/infilled ground.	Low
Ground Instability/ subsidence	Potential for unrecorded shallow coal mining.	Very low

NB. Arbitrary potential hazard assessment: High (Red), Moderate (Amber), Low (Yellow), Very Low (Green), Negligible (uncoloured)

1. Introduction

In accordance with your instruction, Geoinvestigate Ltd. has carried out a Phase 1 Desk Study Investigation of 1 & 1A Sparks Road, Huddersfield, HD3 4BX. The location of the site is shown on the Groundsure Enviro+Geo Insight report presented in Appendix 2.

The site currently comprises an area of land some 0.21 ha in size with access from Sparks Road to the north. The site currently contains two dwellings.

It is understood that it is proposed to erect four new dwellings comprising of two semi-detached units, and retain the existing dwellings.

The purpose of the Phase 1 Desk Study investigation was to review the historical land use and geological information for the site in order to provide an assessment of the potential geotechnical/foundation problems together with a qualitative contamination and ground gas risk assessment.

2. Scope of Works

The investigation comprised a review of the following information:

- An extract from the 1:50,000 BGS geological mapping.
- Historical OS maps of various scales dating back to 1854 (presented in Appendix 1).
- Observations from a walkover study carried out by Geoinvestigate.

3. Findings of Phase 1 Investigation

3.1 Anticipated Geology

The extract of the 1: 50,000 BGS geological mapping indicates no Superficial Deposits will be present at the site with sandstone bedrock belonging to the Soft Bed Flags Formation probably present commencing from shallow depth.

Nearby BGS borehole records generally show concrete underlain by fill/made ground, with sandstone/shale bedrock commencing below 0.50m.

3.2 Historical OS Maps and Historical Land Use

Copies of historical OS maps were obtained for the site covering the period 1854 to 2024. Historical land uses and major features located within the site boundary and externally but potentially within influencing distance are summarised in Table 1. The earliest OS map of 1854 shows the site to contain a dwelling.

Table 1: Summary of Historical OS Map Land Use & Potential Hazard Identification

Map Feature	Location	Appears	Absent	Notes
Dwellings	Onsite	1954	Recent	Potential for contamination associated with construction.
Mill ponds & Mill Buildings	Adjacent to the east	1893	1967	Likely Infilled in 1960s. Potential for made ground and gas generation.
Ground workings	260m southwest	1893	1961	Evidence of surface mining, potentially sandstone.
Allotment gardens	50m south	1961	Resent	Given the nature of allotment gardens there is some risk of contamination as a result of pesticides and fertilisers, but widespread and intensive use is unlikely to have taken place.

NB. Arbitrary potential hazard assessment: High (Red), Moderate (Amber), Low (Yellow), Very Low (Green), Negligible (uncoloured)

A review of the historical OS maps has highlighted the land uses most likely to present (or have presented) a hazard or source of potentially harmful contamination to the study area. The primary feature of interest is the mill pond. The allotment gardens are unlikely to have had any lasting effect on the site and the surface feature is probably too distant to have meaningfully affected the site.

3.3 GroundSure Enviro + GeoInsight Reports

The GroundSure Enviro+Geo Insight Report presented in Appendix 2 provides listings of potentially contaminative current and past land uses together with possible pathway and receptor information. It also covers other potential risks to the site including ground hazards associated with the area's natural geological setting and man-made hazards such as those arising from development activities. A summary of the relevant Report findings is presented in Table 2 below and on the following pages.

An arbitrary potential hazard assessment has been made as follows: potentially significant (yellow), or unlikely to be significant (uncoloured). Potential receptors for contamination are highlighted blue.

Table 2: GroundSure Enviro+Geo Insight Summary:

Details	Feature	Location relative to site
Past land use		
Historical industrial land uses	Woollen Mill (2) Unspecified Mills (24) Unspecified Mill (4) Mill Pond (11) Woollen Mills (2) Railway Sidings (3) Unspecified Works (2) Unspecified Warehouse Mill Ponds Cards Mills Tan Yard (2) Police Station Smithy Unspecified Factory Unspecified Tank (3) Infirmary Hospital (3) Unspecified Disused Quarry	On site (Closest) On site (Closest) 11m E (Closest) 95m S (Closest) 121m NW (Closest) 124m NW (Closest) 133m NE (Closest) 137m E 140m NE 164m NE 218m W (Closest) 264m E 306m W 330m NW 340m N (Closest) 351m E 383m E (Closest) 457m SW
Historical Tanks	Unspecified Tank (20) Tanks (10)	122m N (closest) 197m NW (closest)
Historical Energy Features	Electricity Substation (34)	55m NW (closest)
Historical garages	Garage (5)	189m N (closest)
Landfill and Other Waste Sites		
Historical landfill (LA/mapping records)	N/A	N/A
Historical landfill (EA/NRW records)	Industrial, Commercial, Environmental	481m SW
Historical waste sites	N/A	N/A
Licensed waste sites	25000 tonnes	184m N
Waste exemptions	Disposing of waste exemption Treating waste exemption (10) Storing waste exemption	7m SW 177m NE (closest) 226m E
Recent industrial land uses	Vehicle cleaning services Electrical features (8) Business parks and industrial estates Fish, meat and poultry products Textiles, fabrics, silk and machinery (2) Unspecified works or factories Electrical equipment repair and servicing Hospitals Travelling cranes and gantries Ambulance and medical transportation services Gas features Telecommunications features Vehicle repair, testing and servicing	62m SE 83m NW (closest) 141m NW 141m NW 149m NW (closest) 152m N 160m E 163m NE 182m N 201m NW 212m E 218m SE 233m NW
Current or recent petrol stations	ESSO	383m E
Control of Major Accident Hazards (COMAH)	N/A	N/A
Licensed pollutant release (Part A(2)/B)	Waste oil burner (2) Hot dip galvanizing Petrol vapor recovery Unloading of petrol	30m N (closest) 238m NE 353m E 353m E
Radioactive substance authorisations	Keeping and use of radioactive materials (2) Disposal of radioactive waste (4)	455m NE (closest) 455m NE (closest)
Table 2 is continued on the following page		

Table 2 (ctd.): GroundSure Enviro+Geo Insight Summary:

Details	Feature	Location relative to site
Past land use		
Licensed Discharges to controlled waters	N/A	N/A
List 2 dangerous substances	Copper, chromium, lead, zinc	311m NE
Pollution Incidents (EA/NRW)	N/A	N/A
Pollution inventory radioactive waste	Technetium 99m	455m NE
Hydrogeology - Superficial aquifer		
Superficial aquifer	N/A	N/A
Bedrock aquifer	Secondary A	Onsite
Groundwater vulnerability	High	Onsite
Ground water abstractions	Historical (12) Active (2)	158m E (closest) 1153m SW (closest)
Surface water abstractions	Historical (12)	1194m S (closest)
Potable abstractions	Historical	1886m W
Hydrology		
Water Network (OS MasterMap)	N/A	N/A
WFD Surface water body catchments	N/A	N/A
WFD Surface water bodies	River	Onsite
WFD Groundwater bodies	Aire & Calder carb limestone/millstone grit/coal measures	Onsite
River and coastal flooding		
Risk of Flooding from Rivers and Sea (RoFRaS)	N/A	N/A
Historical Flood Events	N/A	N/A
Flood Zone 2	N/A	N/A
Flood Zone 3	N/A	N/A
Surface water flooding		
Surface water flooding	Highest risk on site Highest risk within 50m	Negligible 1 in 30 year, 0.3m - 1.0m
Groundwater flooding		
Groundwater flooding	Highest risk on site Highest risk within 50m	Negligible Negligible

Table 2 is continued on the following page

Table 2 (ctd.): GroundSure Enviro+Geo Insight Summary:

Details	Feature	Location relative to site
Environmental designations		
Local Nature Reserves (LNR)	Gledholt Woods	1426m SE
Designated ancient woodland	Grimescar Wood (2) Gernhill wood	1713m NE (closest) 1954m N
Green belt	South and West Yorkshire (3)	1313m W (closest)
Visual and cultural designations		
Listed Buildings	Grade II (10)	10m SW (closest)
Agricultural and Habitat designations		
Agricultural Land Classification	Urban	Onsite
Environmental Stewardship Schemes	N/A	N/A
Priority Habitat Inventory	N/A	N/A
Open mosaic habitat	National land use database- previously developed land	135m NE
Geology 1:10,000 scale		
Artificial and made ground (10k)	Made ground (undivided) Worked ground (undivided) Infilled ground	433m SW 470m SW 500m SW
Superficial geology (10k)	N/A	N/A
Bedrock geology (10k)	Soft Bed Flags- sandstone Pennine Lower Coal Measures- mudstone, siltstone and sandstone Rough Rock- sandstone Rough Rock Flags- sandstone	Onsite 202m SW 335m SW 441m SW
Bedrock faults and other linear features (10k)	Fossil horizon, marine band (2)	328m SW (closest)
Geology 1:50,000 scale		
Artificial and made ground (50k)	Made ground (undivided)	433m SW
Superficial geology (50k)	N/A	N/A
Bedrock geology (50k)	Soft Bed Flags- sandstone Pennine Lower Coal Measures Formation- mudstone, siltstone and sandstone Rough Rock- sandstone Rough Rock Flags- sandstone	Onsite 201m SW 332m SW 433m SW
Bedrock permeability (50k)	Fracture (high to moderate)	Onsite
Bedrock faults and other linear features (50k)	Marine band	332m SW
Natural ground subsidence		
Shrink swell clays	Negligible	Onsite
Running sands	Negligible	Onsite
Compressible deposits	Negligible	Onsite
Collapsible deposits	Very low	Onsite
Landslides	Very Low	Onsite
Ground dissolution of soluble rocks	Negligible	Onsite
Table 2 is continued on the following page		

Table 2 (ctd.): GroundSure Enviro+Geo Insight Summary:

Details	Feature	Location relative to site
Mining, ground workings and natural cavities		
BritPits	N/A	N/A
Surface ground workings	Ponds (11) Mill Pond (7) Pond (10) Mill Ponds	Onsite (closest) 95m S (Closest) 103m S (Closest) 140m NE
Underground workings	N/A	N/A
Non-coal mining	Vein mineral	332m SW
JPB mining areas	N/A	N/A
Coal mining	The site is located within a coal mining area as defined by the Coal Authority.	Onsite
Mining cavities	Flagstone (2)	932m W (closest)
Radon Risk		
Radon Risk	Less than 1%, no protection required	Onsite
Soil chemistry		
Normal levels recorded		
Railway infrastructure and projects		
Historical railway and tunnel features	Tramway sidings (5) Railway Sidings (4)	91m E (closest) 124m NW (closest)
Railways	N/A	N/A

The GeoInsight report has highlighted no additional potential risks to the site or the intended development arising due to historical or current land uses and the site's geological setting beyond those already discussed save for perhaps the records of pollution release and waste exemptions. Based on the historical map review, the site appears to be outside of any mill pond features, contrary to the summary above.

3.4 Coal Authority Report Summary

The Coal Authority (CA) report (see Appendix 3) states that:

- The site is **not** in an area where underground coal mining has occurred.
- The coal authority believes that there are no probable unrecorded shallow workings.
- There are no known coal mine entries within 20m of the boundary.
- The site does not lie within an opencast area.
- There are no records of mine gas emissions.

Based on the CA report, a very low risk of subsidence to the proposed development arises from coal mining legacy, and no further action is required in the regard.

3.5 Walkover Survey Observations

A site reconnaissance visit was undertaken on the 5th August 2024 by Connor Daniel of Geoinvestigate.

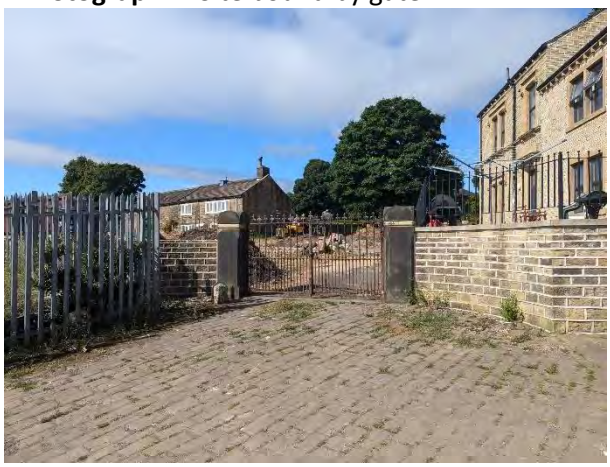
The site was as described in Section 1 of this report comprising land 0.21ha in size with 1 and 1a Sparks Road lying within the site.

The walkover inspection described the site slopes down to the east and contains predominantly open soil with a small concrete base from the previous outbuilding. The site is bounded by a wall and contains grasses with some large trees beyond the site boundary. A bonfire was noted, as well as three piles of soil. The ground was noted as being dry and dusty.

The inspection of the surface of the site little evidence of physical hazards or odours, staining, or residues that might be indicative of the presence of chemical (including hydrocarbon) contamination. The only contamination noted was the bonfire. On the basis of the walkover inspection only, the risk of a serious contamination hazard occurring at this site would be assessed to be low given the current condition of the site and use. The hazardous gas risk at the site, based solely on the findings of the walkover survey, would also be assessed to be low given it is unlikely any substantial gas source exists beneath the site.

It is noted however that despite the apparent lack of evidence of any contamination encountered during the visual inspection described above, any planning application is likely to require confirmation that no contamination is likely to have occurred. Photographs taken during the walkover survey are presented on the following page:

Photograph 1: Site bound by gate



Photograph 2: View from Sparks Road

Photograph 3: Large trees beyond site boundary

Photograph 4: Soil pile onsite

Photograph 5: Hardstanding and neighbouring properties

Photograph 6: 1 and 1a Sparks Road and bonfire

4. Qualitative Risk Assessment

4.1 Methodology

In order to assess the potential risks to the site, information obtained on the potential sources of hazard identified in Section 3 have been reviewed and applied to a model of the site. This allows an assessment of the potential sources of contamination to be made by examining the potential pollutant linkages between these and the receptors at the site.

The risk assessment presented comprises a source-pathway-receptor model developed in the context of the intended end use of the site (Residential use).

It is noted that an alternative land use would present different pollutant linkages with more or less vulnerable receptors and differing pathways for exposure. Were the intended land use to be changed at the site, a revised risk assessment would be required.

Identified potential sources of hazard or contamination, vulnerable receptors, and possible pathways by which they may be exposed are presented in the Conceptual Ground Hazard Model (CGHM) presented in Figure 1, see Section 4.2.

In addition to risks to human health and controlled waters and aquifers posed by contamination and ground gas, the CGHM examines the potential risks to the construction of the development including its buildings from geological or geotechnical hazards.

It allows an overall assessment to be made of the potential hazards and risks to the site and the proposed development with respect to “fitness for purpose”. Bedrock geology which is anticipated to underlie the site is assumed to exhibit potentially high permeability and only limited superficial geology is expected.

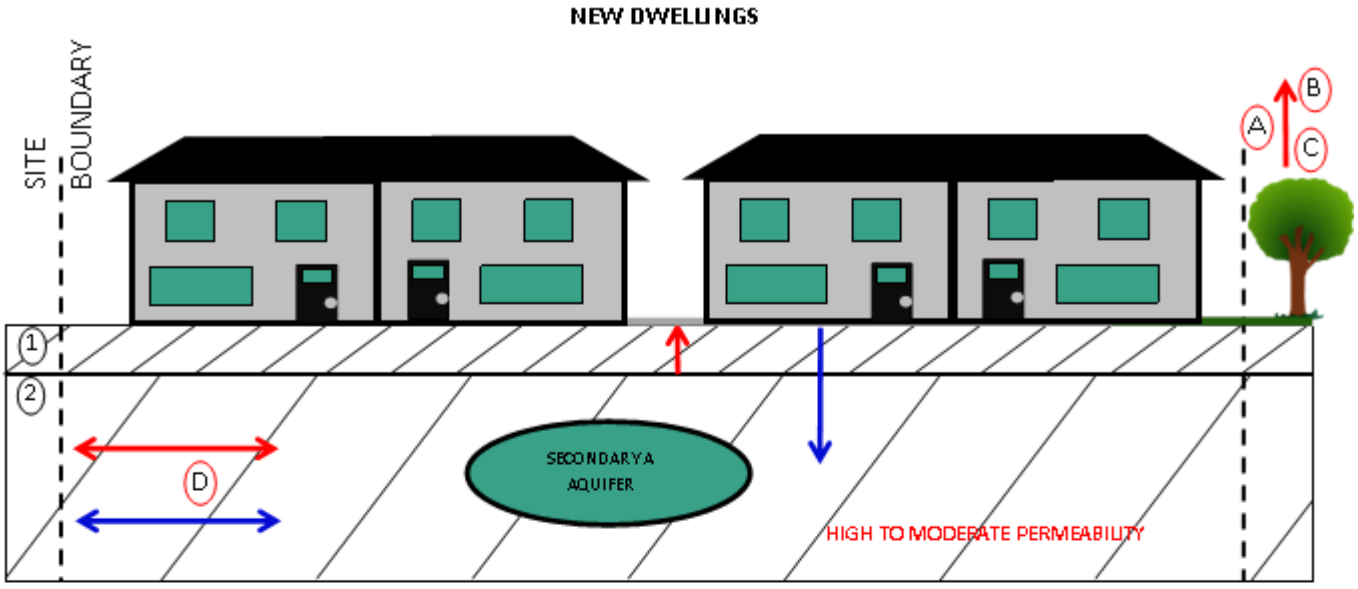
4.2 Risk Assessment

The desk study has highlighted the presence of possible sources of contamination which could potentially affect (or have affected) the site, primarily comprising the mill pond.

Contamination from external sources would require a favourable pathway for migration into the site. The BGS extract does not record any superficial deposits so near-surface permeability is unknown.

Potential receptors at the site would include the end users of the site (residents), workers employed in the construction of the new development, the buildings themselves and their services, plants and vegetation, neighbouring sites (and their users/occupants), nearby surface water and ground water at depth. A representation of the potential hazards and pollutant linkages is shown in Figure 1 overleaf.

Figure 1 – Conceptual Ground Hazard Model of site including a Source, Pathway and Receptor Model



(1) SURFACE —TOPSOIL AND POTENTIAL MADE GROUND PRESENT.

(2) BEDROCK GEOLOGY—SOFT BED FLAGS (SANDSTONE).

IDENTIFIED HAZARDS Including Potential CONTAMINATION SOURCES

-Historical nearby and onsite land uses such as mills and waste oil burner.

-Ground surface instability due to potential made ground.

-Potential hazardous gases sourced from made ground near to or within site.

IDENTIFIED RECEPTORS and ASSOCIATED PATHWAY

A— End Users through Direct Contact / Inhalation / Ingestion. Buildings and hard standing will encompass some of the site, removing any pathway to end users through direct contact in these areas.

B— Plants and Trees through uptake, likely given the intended end use and configuration of the site.

C— End Users through cultivation and consumption of vegetables / fruit. Unlikely given the intended end use of the site.

D— Neighbouring Sites through lateral migration (in soil and water, including surface water run off).

E— Ground water through leaching of sub-soil.

F— Buildings and services through direct contact.

G— End users and buildings through ground gas migration.

H— Ground stability hazards (etc..)

The CGHM and the summary table below (Table 3) present the most likely potential sources of contamination, gas or geotechnical risk that are considered to be possible either within or near to the study site.

The identified potential contamination sources could feasibly have given rise to harmful and potentially mobile contamination of made ground and/or natural deposits which might underlie the site. No superficial geology is recorded for the site meaning permeability is unknown.

Therefore, assuming the worst-case scenario, the potential for harmful contamination to exist at the site from historical sources is assessed to be Low (as opposed to very low or negligible) owing to the potentially contaminative activities located near to and/or within the study area (primarily concerning the mill pond and mills as well as onsite residential development).

The hazardous gas risk is currently assessed to be Low to Moderate as although it is unlikely that any significant potential hazardous gas source exists at the site the infilled nearby mill ponds are within influencing distance. However, if deeper (>1.0m) made ground is subsequently discovered at the site, this conclusion should be reassessed.

The actual current level of risk to the development and its users can only be ascertained for certain through confirmation of the ground conditions by a Phase 2 intrusive investigation, including a contamination survey, and potentially a gas monitoring survey.

Table 3: Summary of Conceptual Ground Hazard Model

Potential Source	Nature of Hazard	Associated Contaminants	Pathway	Receptor	Preliminary Risk Rating
Historical land use and development. Possible made ground.	Inorganic and organic chemical contaminants within soil.	-Trace metals -PAHs -Petroleum hydrocarbons -Asbestos	-Direct human contact -Ingestion of soil -Ingestion of dust -Inhalation of vapour -Leaching into ground or surface waters -Overground migration to external sites (soil and water)	-Site Operatives -End Users -Vegetation -Controlled waters -Structures and services -Neighbouring sites/users	Low
Possible made ground	Hazardous ground gas migration.	Landfill-type gases (CO_2, CH_4 etc.)	-Inhalation -Explosion risk	-Site Operatives -End Users -Structures	Low to Moderate
Local Geology	Radon gas migration	Radon gas	-Inhalation	-End Users	Negligible
Shallow coal mine workings	Ground instability via risk of settlement / collapse	N/A	Direct	-End Users -Structures	Very low
Shrink-swell clays	Ground instability vegetation influence / heave	N/A	Direct	-End Users -Structures	Negligible
Infilled ground	Ground instability via risk of settlement	N/A	Direct	-End Users -Structures	Low

5. Conclusions

A summary of the anticipated ground conditions, risks and implications based on the findings of Sections 3 and 4 of this report is presented in Table 4 below:

Table 4: Summary of Phase 1 Desk Study Findings

Concern	Desk Study Finding	Initial Risk Assessment	Potentially Useful Action in a Phase 2 Site Investigation
Normal Foundations	Bedrock potentially present at shallow depth with possible thin drift deposits. A potential for made/infilled ground has been identified.	Unclear	Borehole investigation to confirm strength of ground with regard to supporting building loads. Soil analysis might also be included to stablish risk with regard to shrink-swell clay to rule out vegetation influence, or assess strength of any potentially weaker soils.
Soakaways	Sandstone bedrock unlikely to offer sufficient permeability.	Unlikely to be suitable	Water infiltration testing to quantify permeability of superficial deposits if granular strata are encountered.
Radon Gas	Less than 1% of properties affected.	Negligible	None. No radon protection required.
Chemical Contamination	Historical nearby and on-site land uses potentially giving rise to a range of inorganic and organic contaminants including asbestos, metals/metalloids, PAHs and petroleum hydrocarbons.	Low	Chemical analysis for potential contaminants in soil samples (and potentially leachate). Samples should be recovered from made ground (if found) and topsoil, and also potentially underlying natural sub soils to check for potential leaching and/or migration into the site from possible external sources.
Hazardous Gas	Potential for hazardous gas to be generated in made/infilled ground deposits.	Low to Moderate	Ground gas monitoring unlikely to be required unless significant (>1m deep) made ground deposits are encountered. Alternative means of assessment may be useful such as those described in CL:AIRE RB17.
Ground Instability/ subsidence	Potential for vegetation influence on shrink-swell clays which may be present, including risk of soil heave.	Negligible	Borehole investigation to confirm strength of both natural and made ground and shrinkage potential of any cohesive soils.
	Potential for significant deposits of compressible made/infilled ground.	Low	
	Potential for unrecorded shallow coal mining.	Very low	Rotary borehole investigation.

The initial risk assessment provided above is tentative as it is based only on the Phase 1 desk study. The risks will need to be reassessed and may perhaps change significantly becoming higher or lower depending on the results of the Phase 2 intrusive investigation and contamination/gas survey, should these be undertaken.

6. Recommendations

In light of the Phase 1 desk study findings, it is recommended that a Phase 2 investigation be undertaken at the site to better explore the possible risks that have been identified. This should include contamination analyses together with a geotechnical appraisal of the site to establish correct foundation requirements. As there are relative uncertainties, this work is recommended in order to establish the actual site conditions and to properly assess both geotechnical and environmental risks.

The Phase 2 investigation should be designed to focus on the potential contaminants highlighted in the CGHM (Figure 1 and Table 4).

Table 5: Proposed Phase 2 Site Investigation Specification

Action	Quantities	Justification/Details
Window Sampling Boreholes	Up to 5 boreholes. (up to 4-5m in depth – if achievable)	Establish actual ground conditions and confirm strength of ground. Retrieve samples of possible made ground and natural soils for geotechnical testing and contamination analysis. Potentially recover ground water samples if encountered. Installation of ground gas monitoring wells (if appropriate).
Hand excavated trial pits	Up to 3 (up to 1m in depth – if achievable)	Further inspect condition and composition of soils and recover additional samples for contamination analyses, including in locations which may be difficult for plant to access.
Chemical Contamination Analysis of Soils and Leachate (and possibly ground water if pertinent)	Up to 6 No. samples from topsoil and/or made ground at shallow depth (<1m) and potentially also deeper natural strata or made ground (if encountered).	Quantify risk posed to receptors identified in CGHM (see Figure 1) for revised risk assessment. Determinants should include a range of metals/metalloids, speciated PAH content, petroleum hydrocarbon content, asbestos presence, and soil organic matter content (to aid in revised risk assessment).
Gas monitoring	Up to 6 No. visits over 3 months. Preferably including occasions of <1000mb and after sharp drop (may only be required in made ground encountered at site).	Quantify risk posed by potential hazardous gas from made/in-filled ground. Possible analysis of Total Organic Carbon (TOC) to support gas measure recommendations (or in the absence of gas monitoring data) using guidance published in CL:AIRE research bulletin RB17.
Geotechnical Testing	Up to 50+ No. Up to 5 No.	Moisture content determination to classify nature of soils. Atterberg Limit determinations to assess the shrinkage and swelling characteristics of the ground should clay soils be encountered.

END OF REPORT

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APPENDIX 1

Historical Map Record

Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: County Series

Map date: **1893**

Scale: 1:2,500

Printed at: 1:2,500

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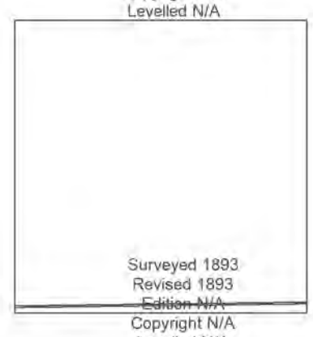
Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1893
Revised 1893
Edition N/A
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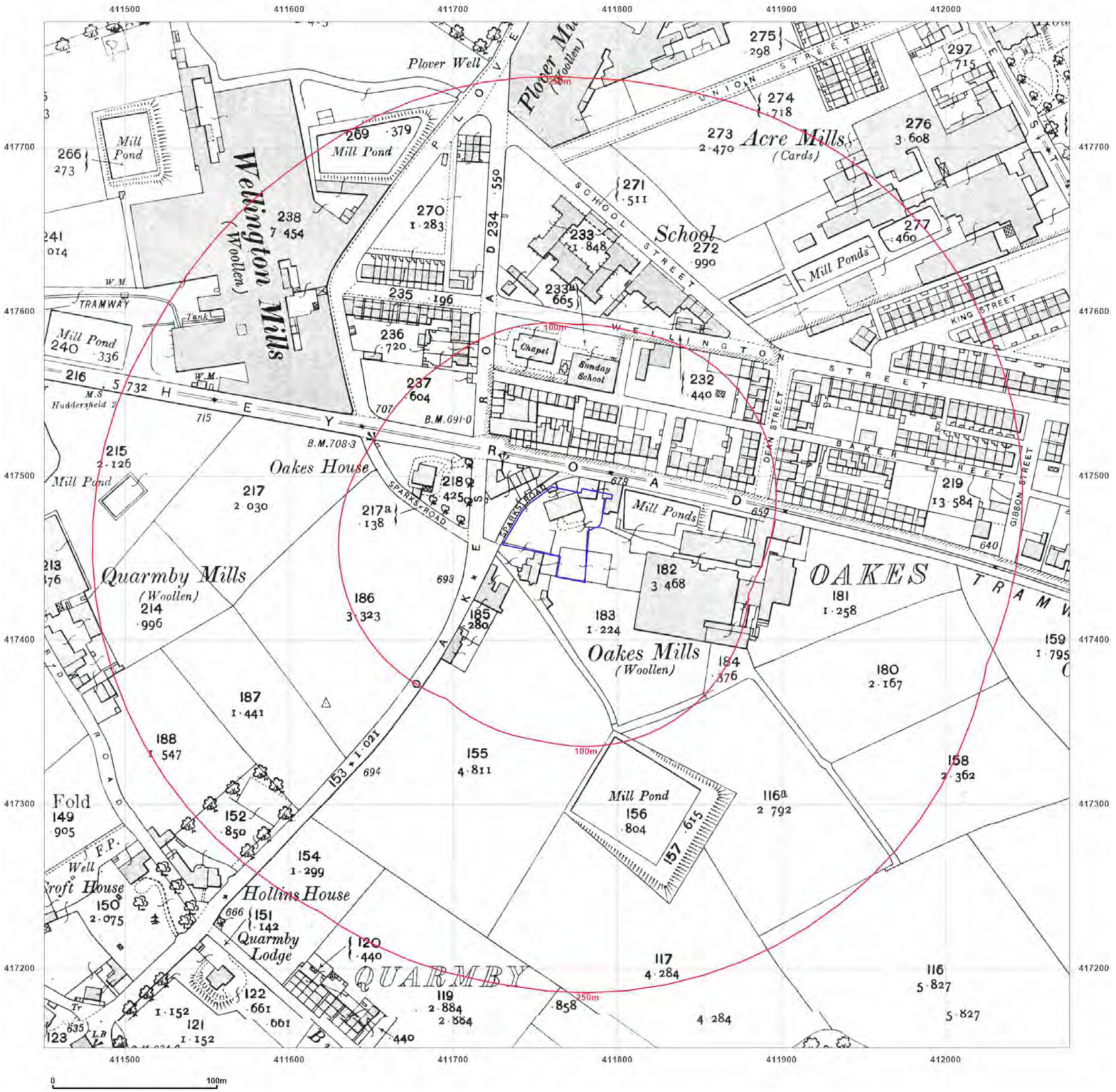
Production date: 23 July 2024

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



Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES, HUDDERSFIELD, KIRKLEES, HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: County Series

Map date: **1907**

Scale: 1:2,500

Printed at: 1:2,500

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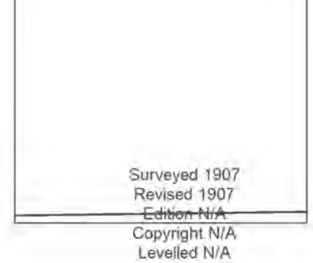
Surveyed 1907
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A



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Production date: 23 July 2024

Map legend available at:
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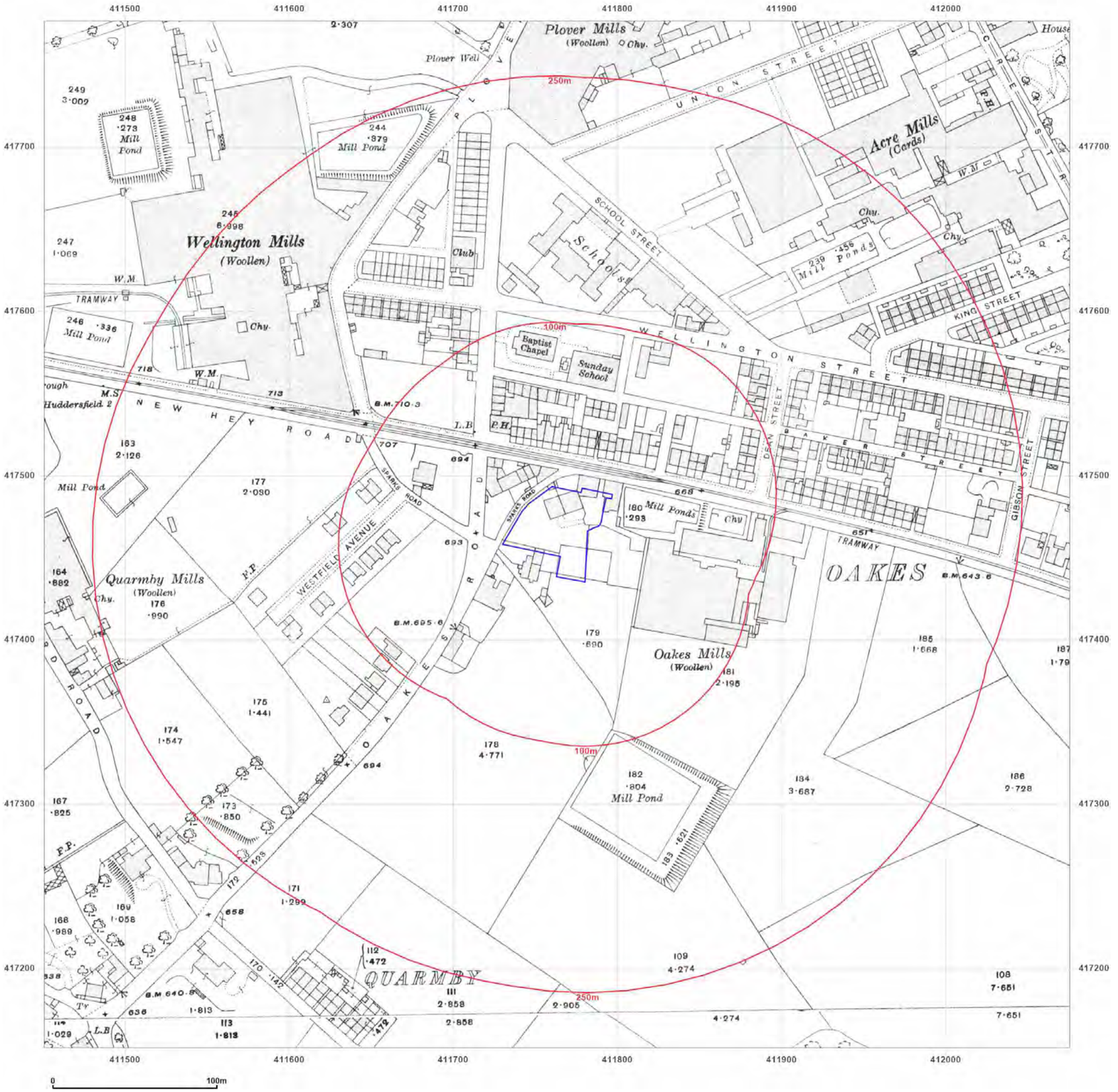

Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: County Series

Map date: **1918**

Scale: 1:2,500

Printed at: 1:2,500

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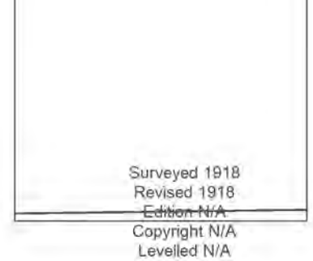
Surveyed 1918
Revised 1918
Edition N/A
Copyright N/A
Levelled N/A



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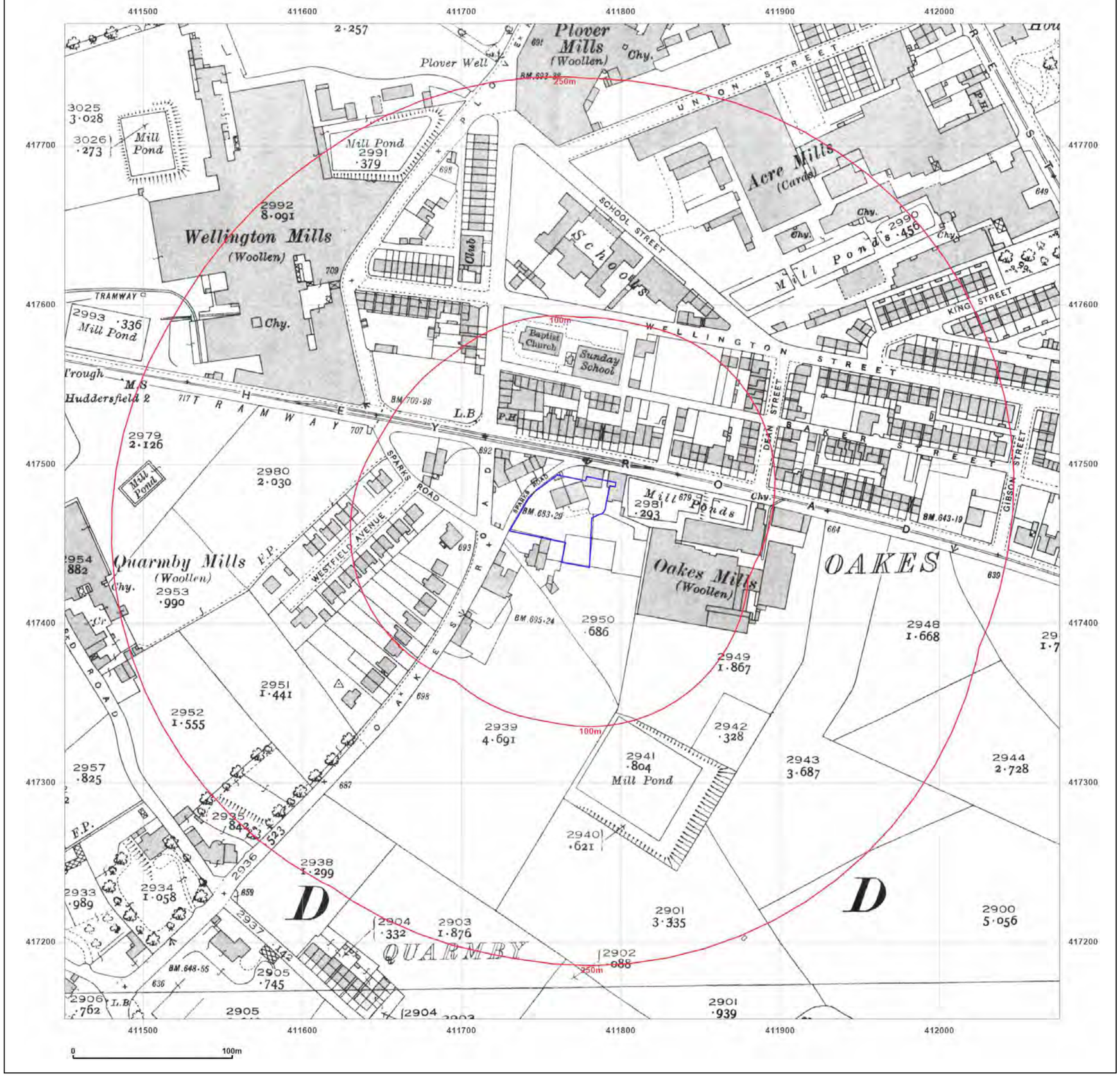
Production date: 23 July 2024

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



Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: County Series

Map date: **1932-1933**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1933
Revised 1933
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1932
Revised 1932
Edition N/A
Copyright N/A
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Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: National Grid

Map date: **1961-1962**

Scale: 1:1,250

Printed at: 1:2,000

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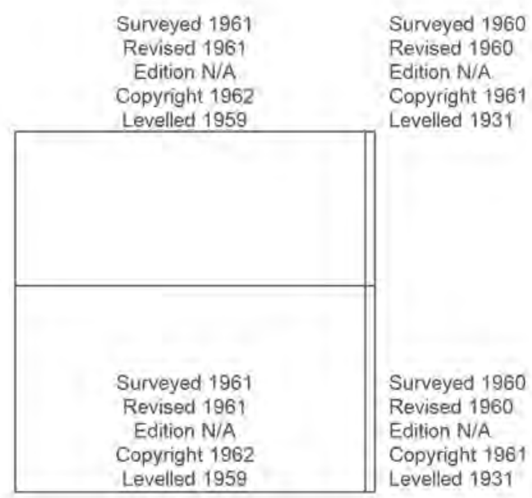

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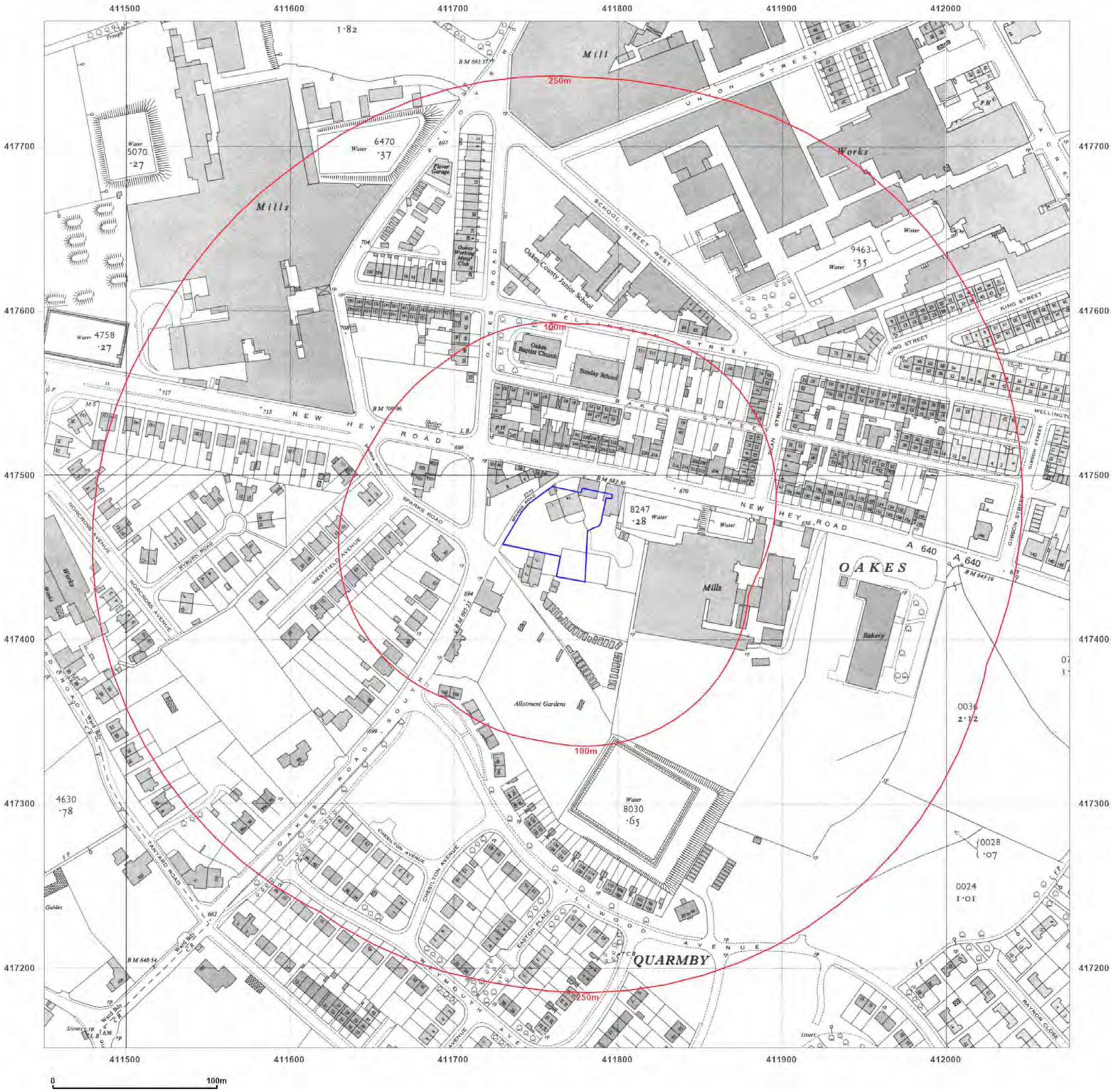
Production date: 23 July 2024

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



Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1961
Revised 1961
Edition 1962
Copyright 1962
Levelled 1959

Surveyed 1960
Revised 1960
Edition 1962
Copyright 1962
Levelled 1931

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Production date: 23 July 2024

Map legend available at:
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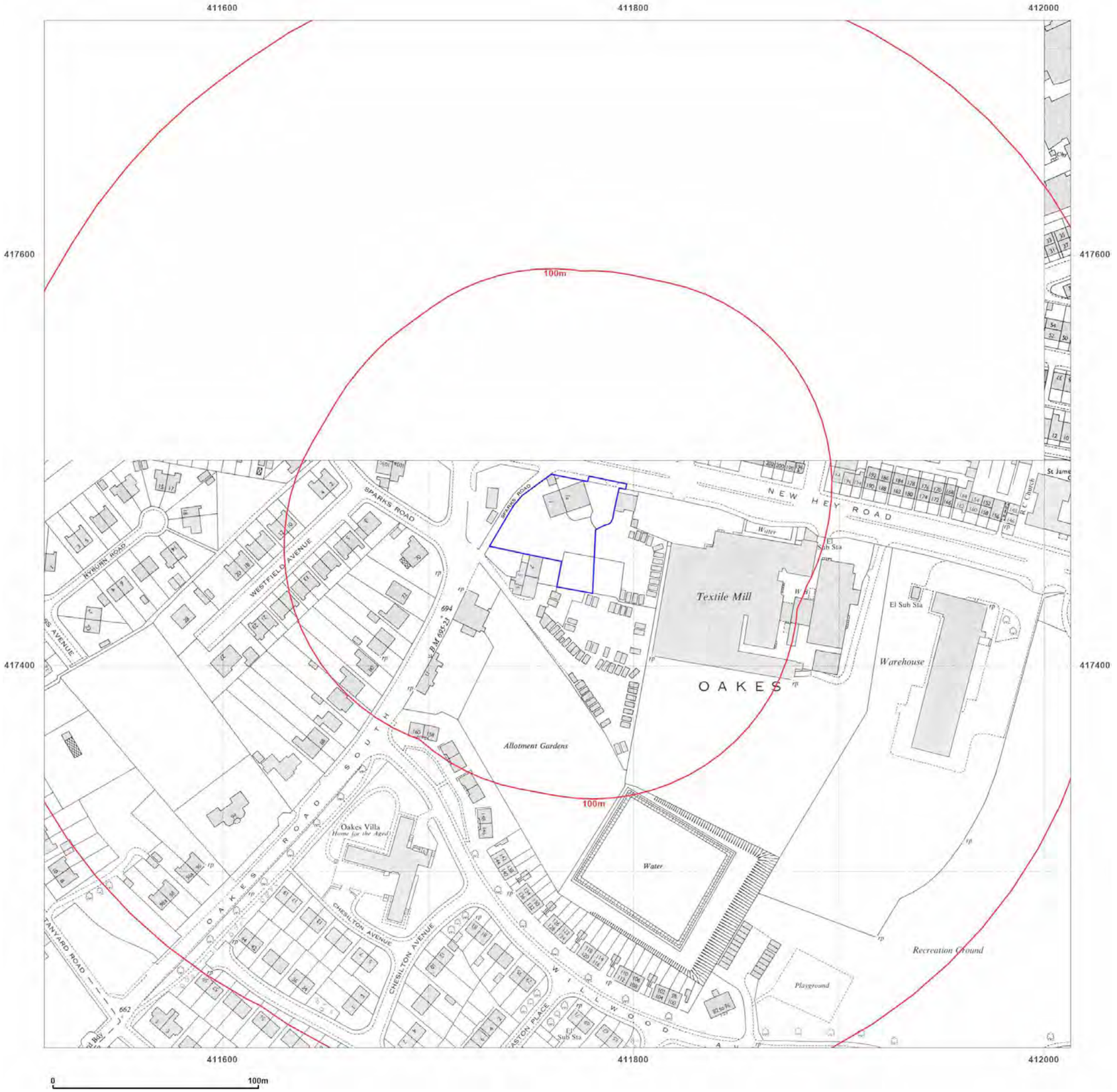

Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: National Grid

Map date: **1967-1972**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1960
Revised 1967
Edition N/A
Copyright 1967
Levelled N/A

Surveyed 1961
Revised 1968
Edition N/A
Copyright 1969
Levelled 1959

Surveyed 1960
Revised 1971
Edition N/A
Copyright 1972
Levelled 1959

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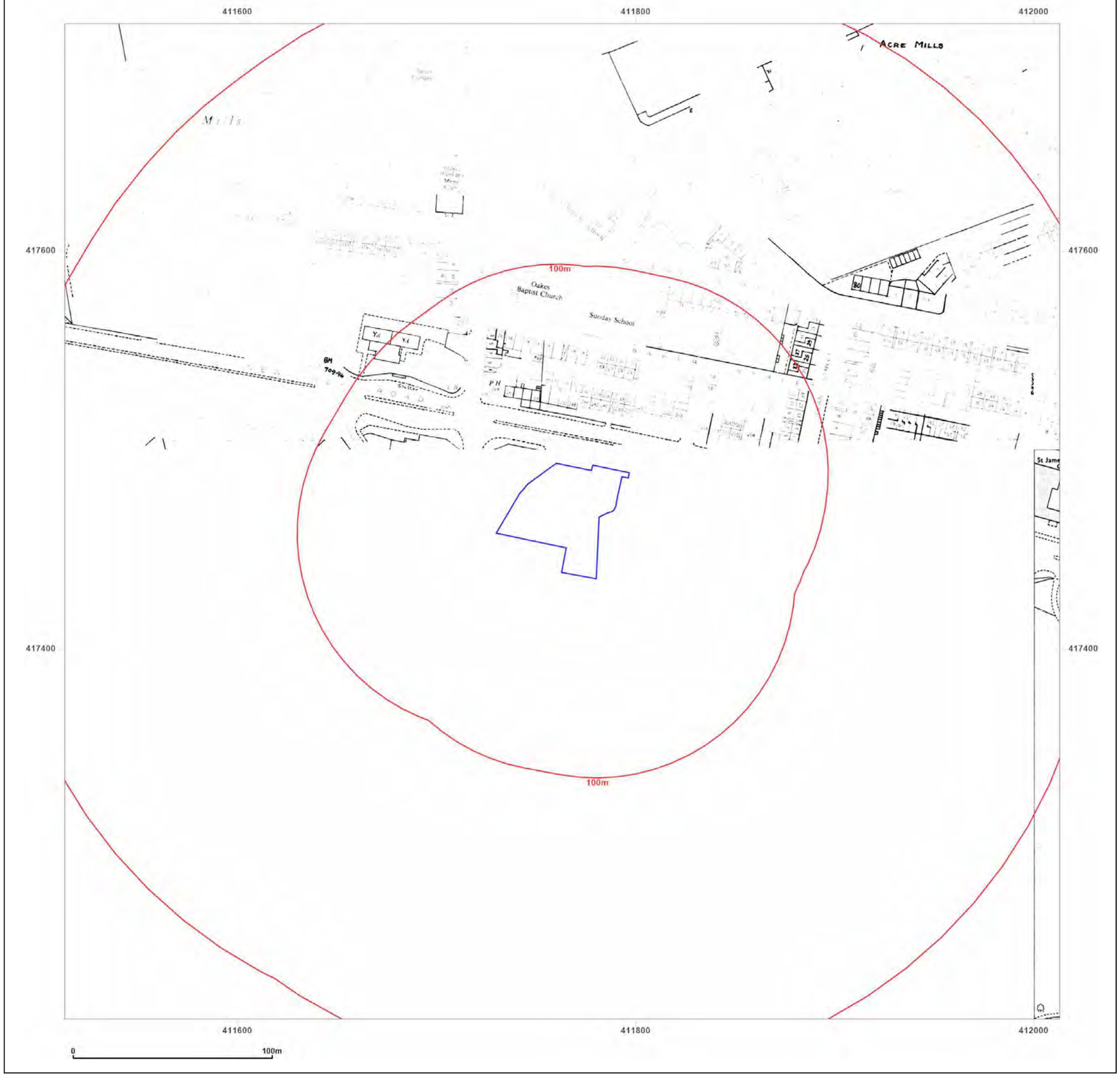
Production date: 23 July 2024

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



Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: National Grid

Map date: **1975-1980**

Scale: 1:1,250

Printed at: 1:2,000

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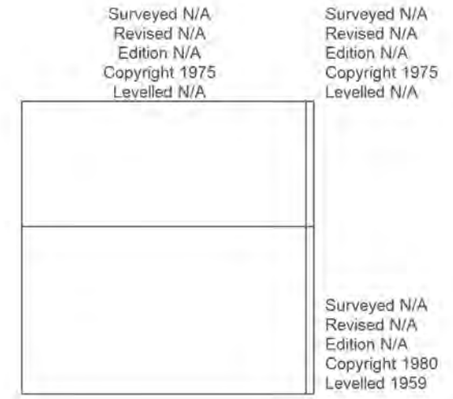

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Production date: 23 July 2024

Map legend available at:
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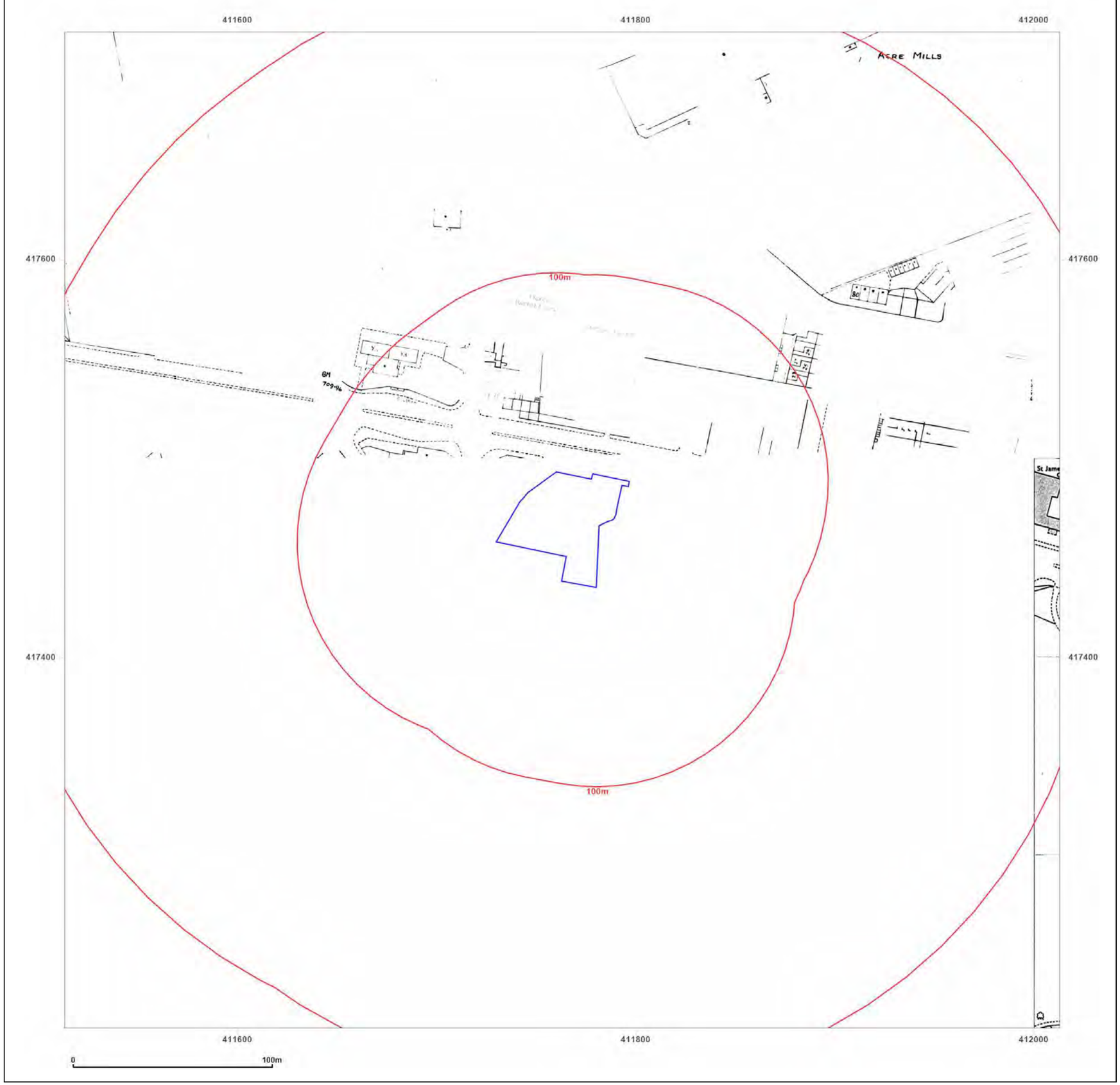

Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: National Grid

Map date: **1976-1980**

Scale: 1:1,250

Printed at: 1:2,000

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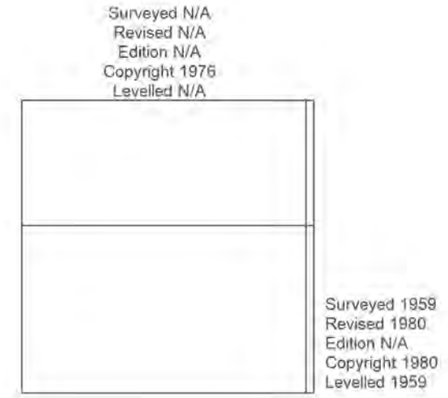

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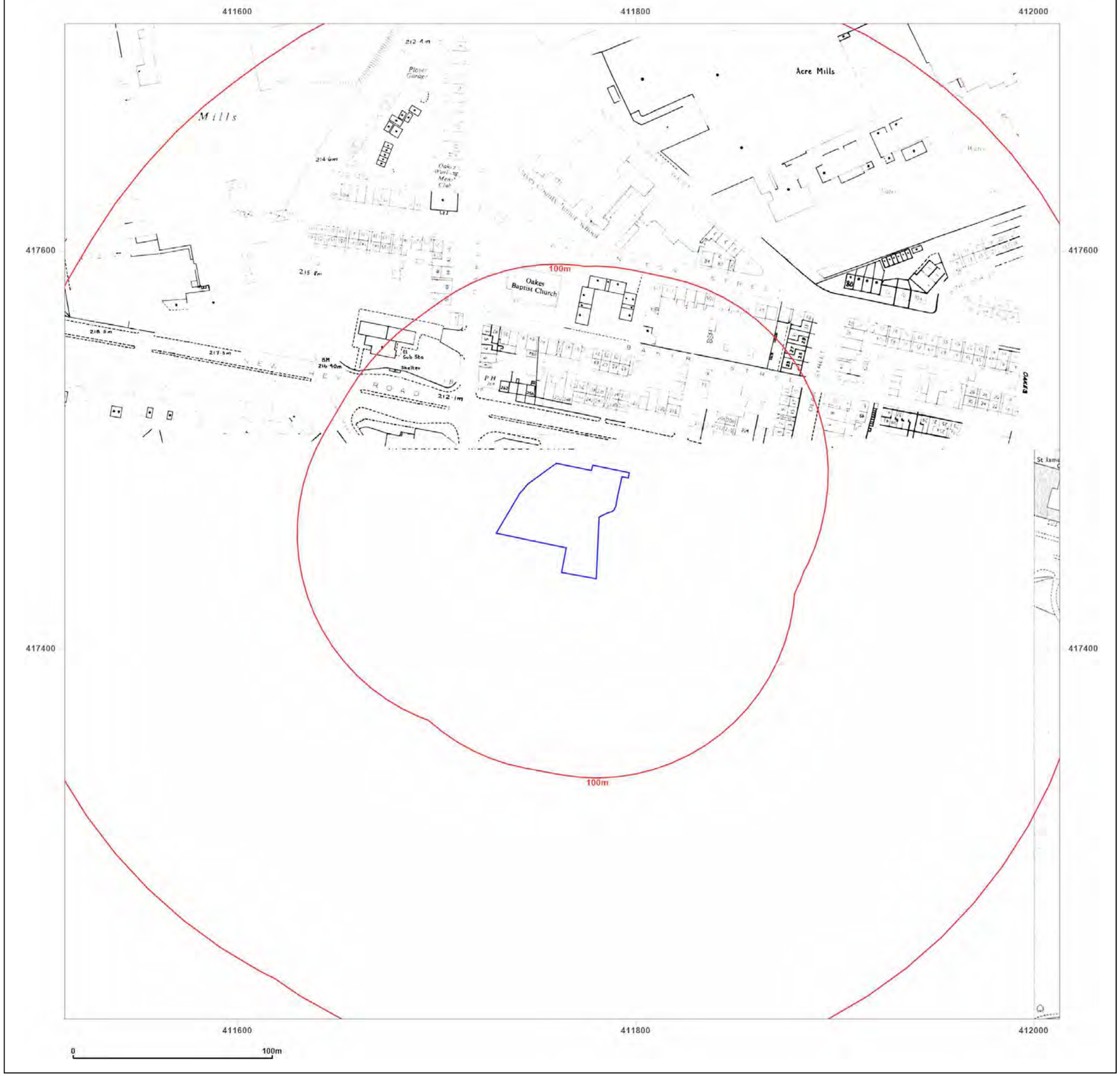

Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: National Grid

Map date: **1978-1980**

Scale: 1:1,250

Printed at: 1:2,000

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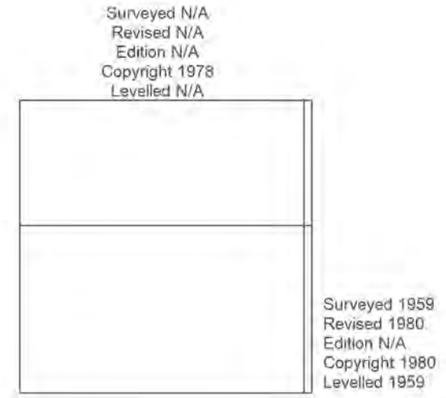

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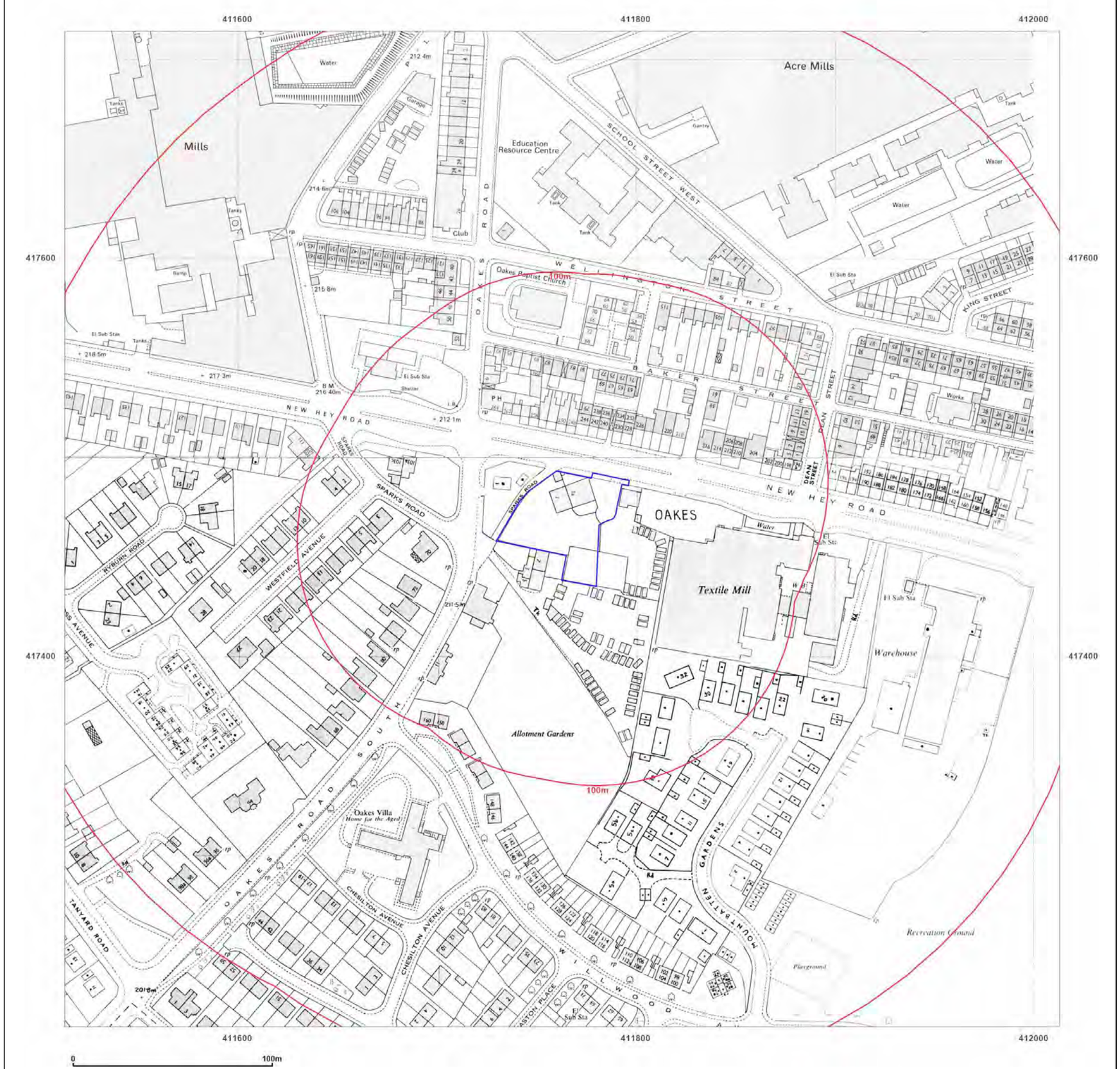

Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: National Grid

Map date: **1982-1984**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1961
Revised 1981
Edition N/A
Copyright 1982
Levelled 1959

Surveyed 1959
Revised 1984
Edition N/A
Copyright 1984
Levelled 1959

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Production date: 23 July 2024

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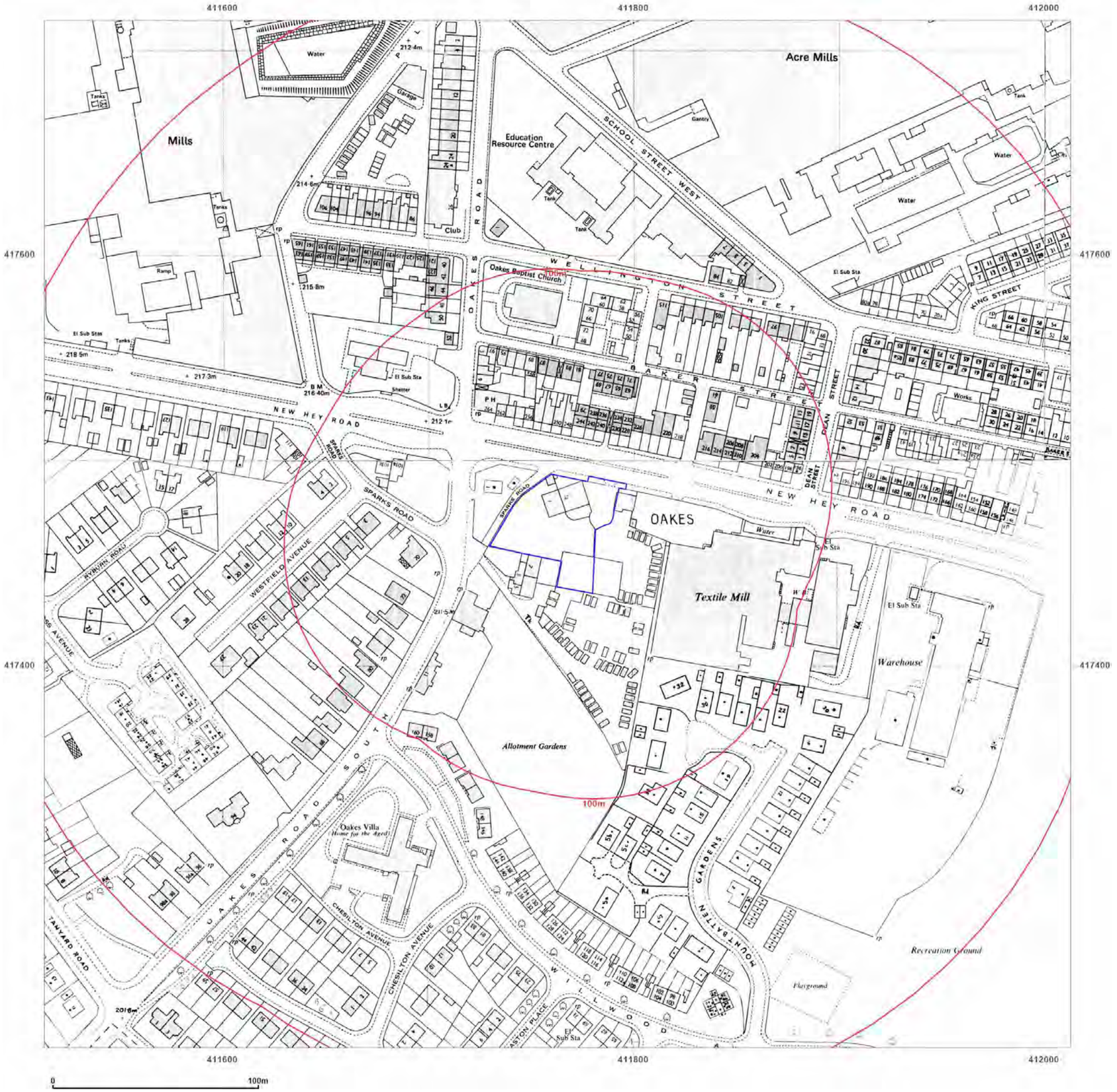

Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: National Grid

Map date: **1982-1986**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1961
Revised 1981
Edition N/A
Copyright 1982
Levelled 1959

Surveyed 1959
Revised 1986
Edition N/A
Copyright 1986
Levelled 1959

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1984
Levelled 1959

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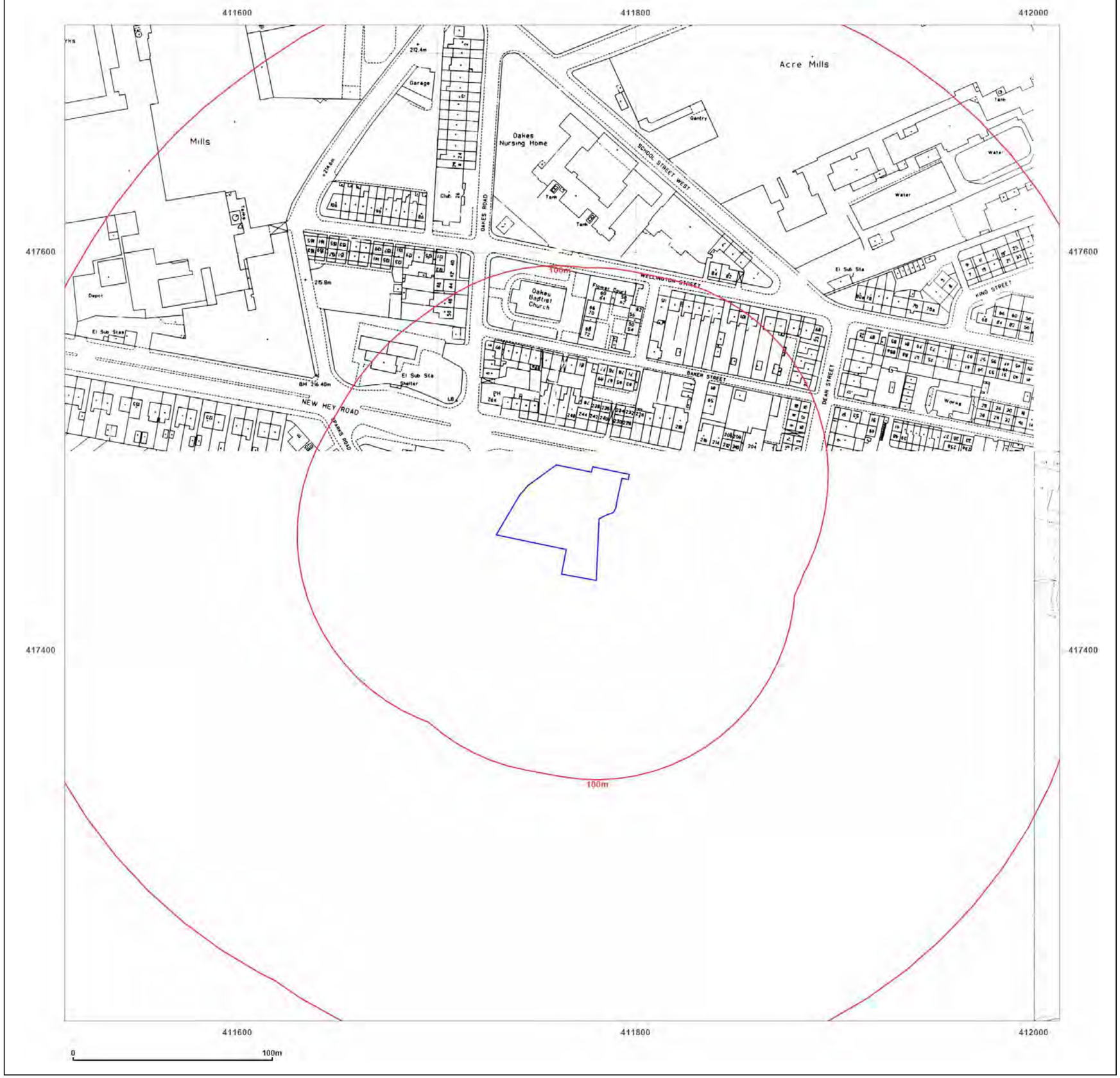

Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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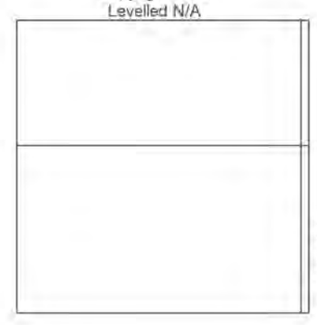
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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

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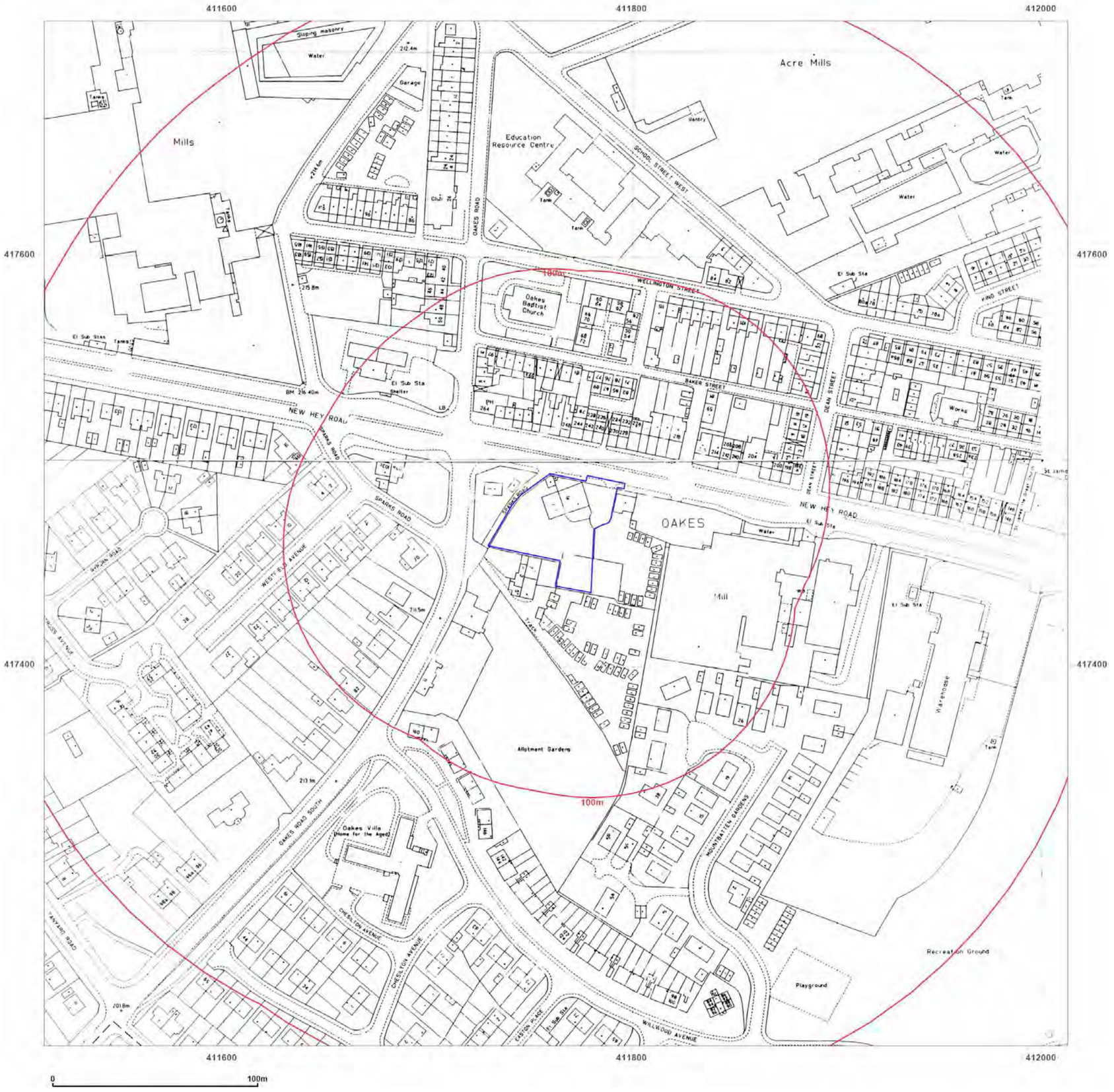

Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: National Grid

Map date: **1989-1993**

Scale: 1:1,250

Printed at: 1:2,000

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

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

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1989
Levelled 1959

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Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: National Grid

Map date: **1989-1993**

Scale: 1:1,250

Printed at: 1:2,000

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

Surveyed 1959
Revised 1989
Edition N/A
Copyright 1989
Levelled 1959

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Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: National Grid

Map date: **1995**

Scale: 1:1,250

Printed at: 1:2,000

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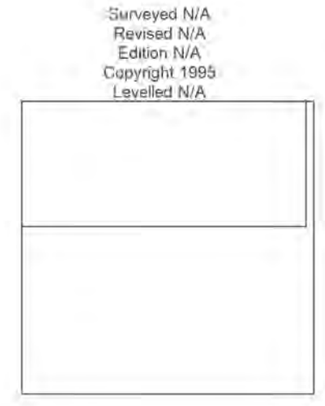

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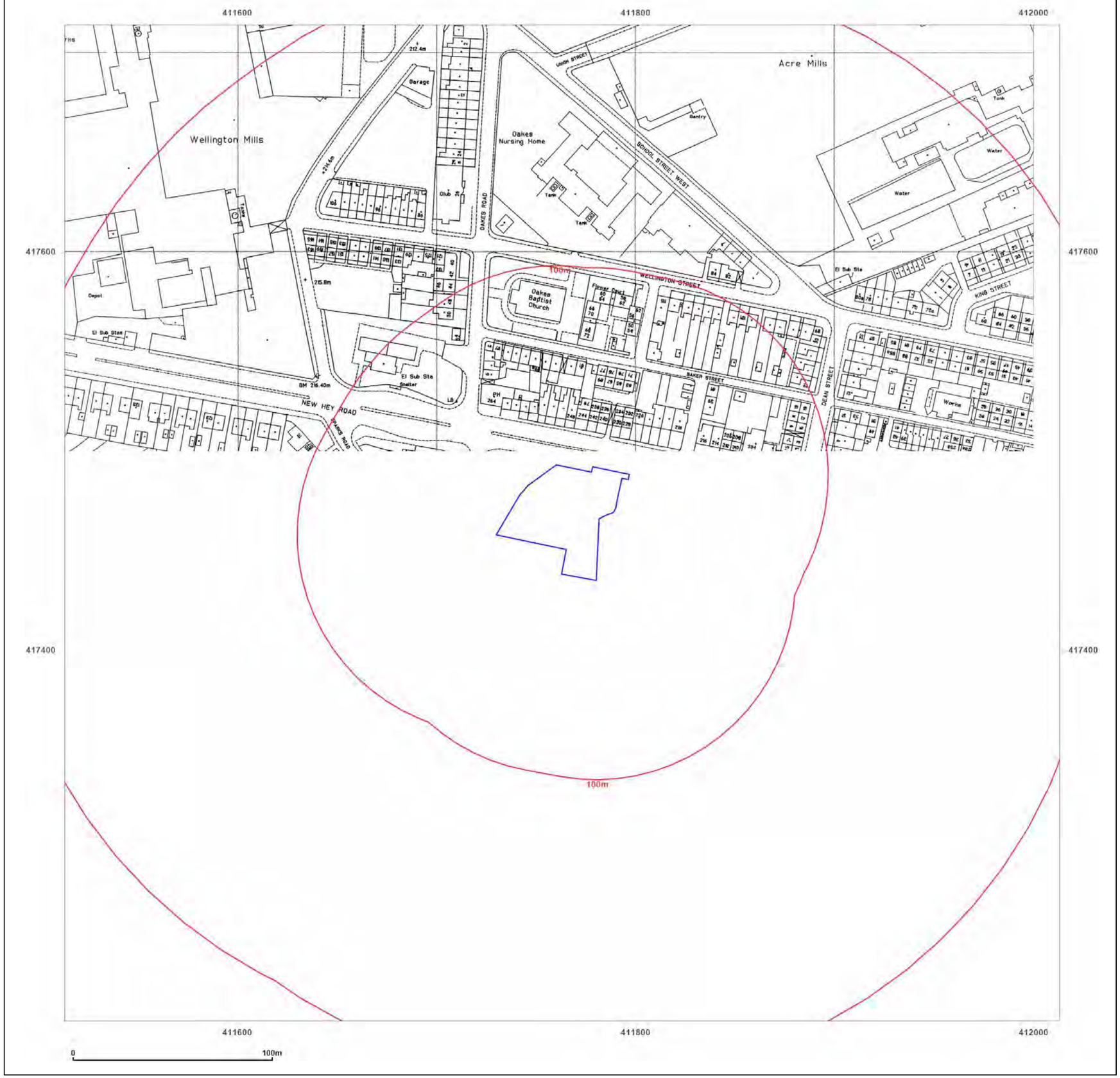

Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: National Grid

Map date: **1995**

Scale: 1:1,250

Printed at: 1:2,000

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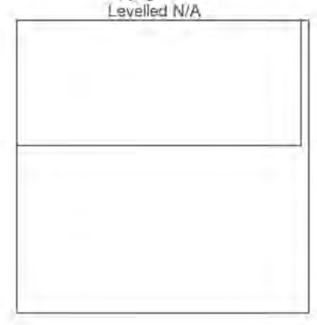
Surveyed N/A
Revised 1995
Edition N/A
Copyright 1995
Levelled N/A



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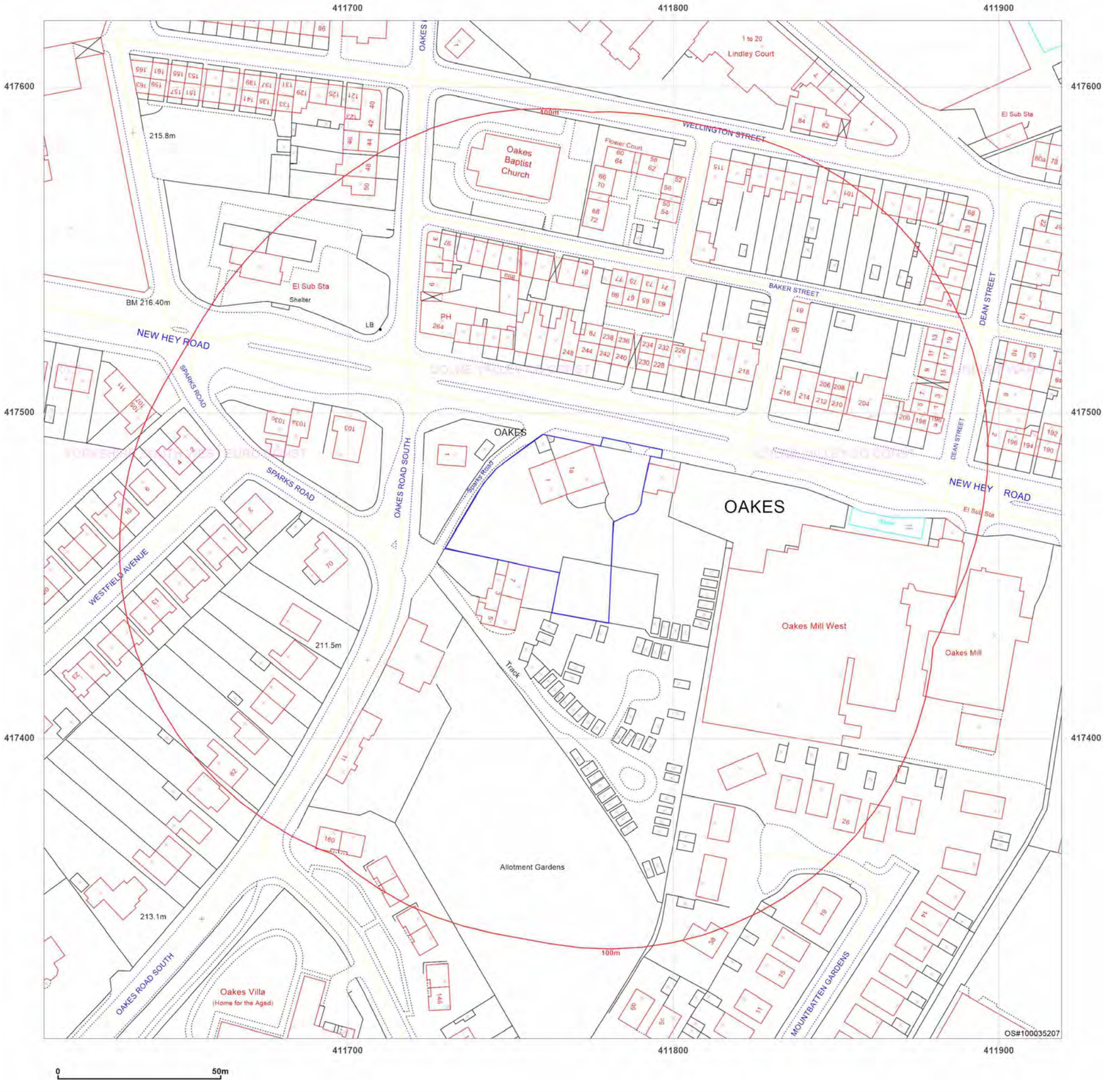

Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

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

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Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: County Series

Map date: **1854**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1850
Revised N/A
Edition 1854
Copyright N/A
Levelled 1853

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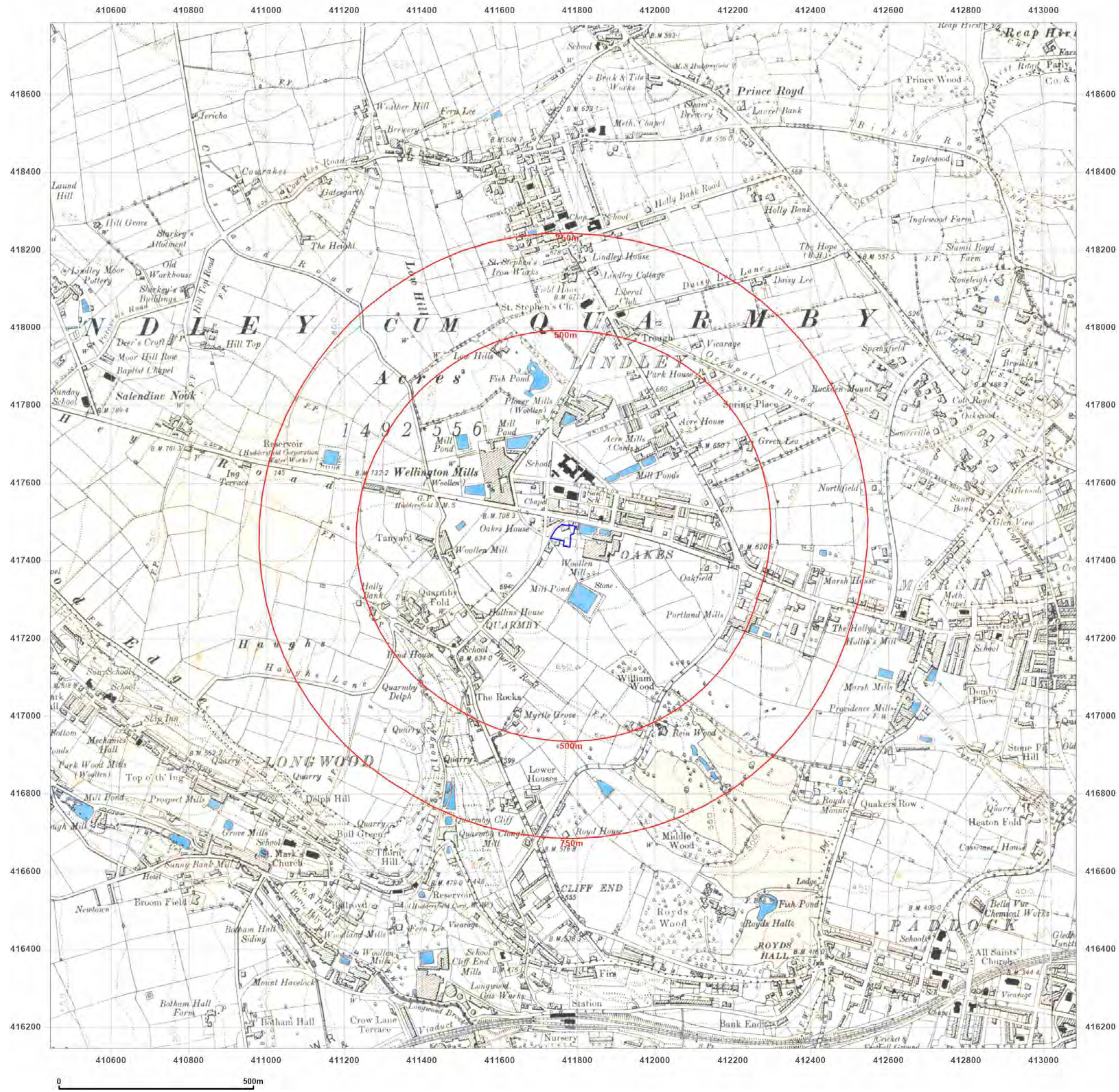
Production date: 23 July 2024

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



Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

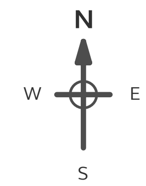
Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

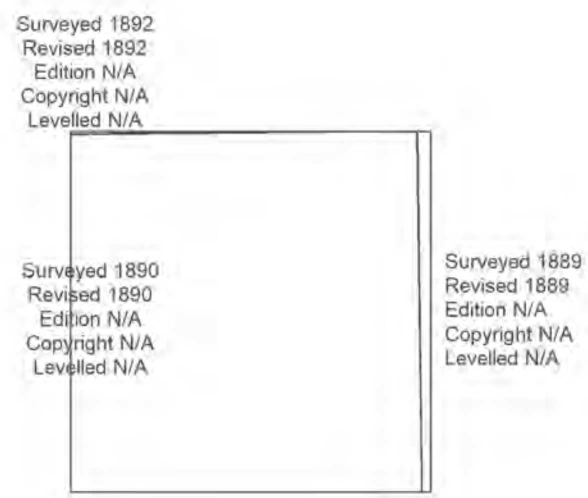
Map Name: County Series

Map date: **1889-1892**

Scale: 1:10,560

Printed at: 1:10,560





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Production date: 23 July 2024

Map legend available at:
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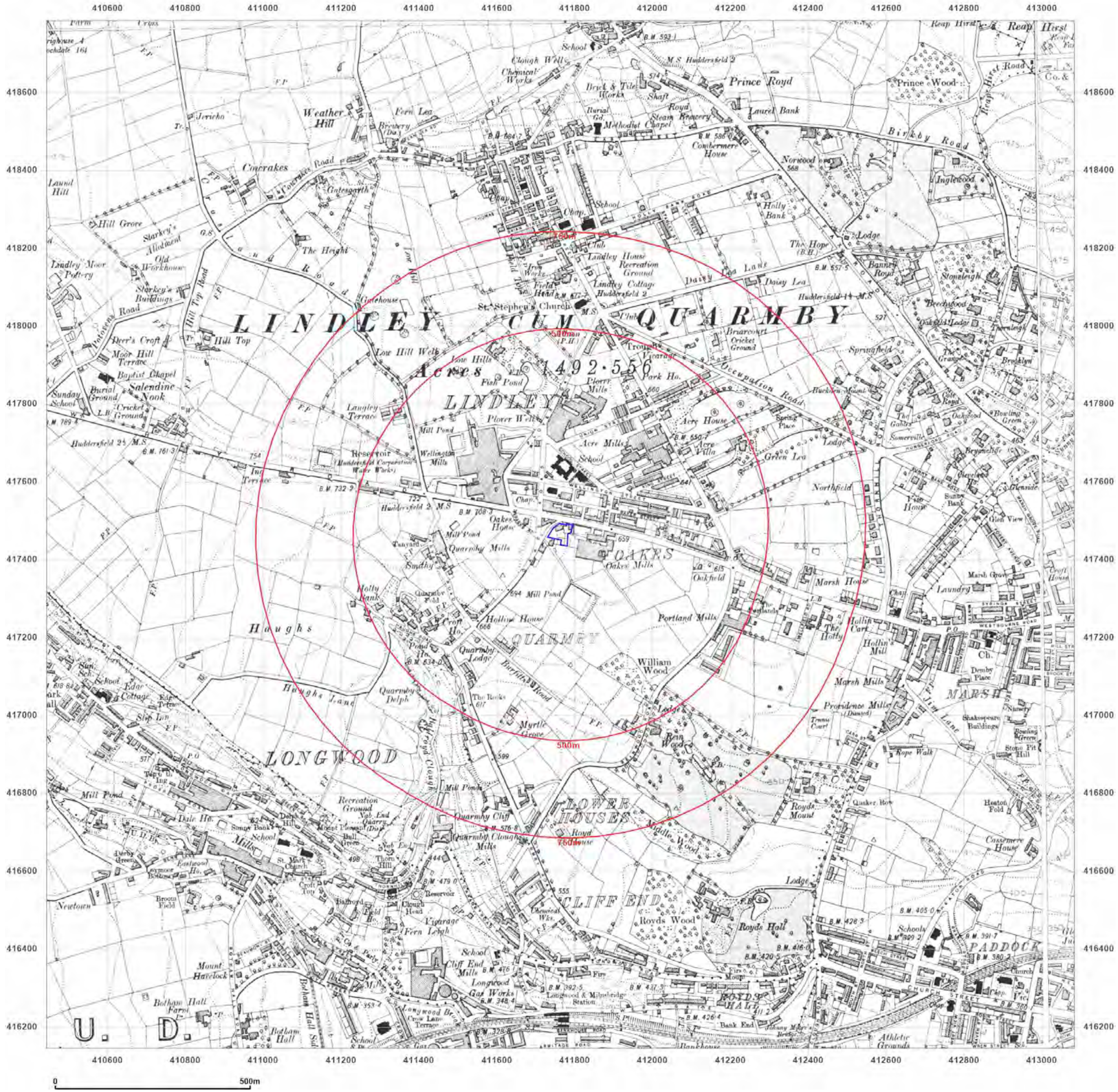

Site Details:

1 & 1A, SPARKS ROAD, OAKES, HUDDERSFIELD, KIRKLEES, HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: County Series

Map date: **1905**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1892
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1890
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1889
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

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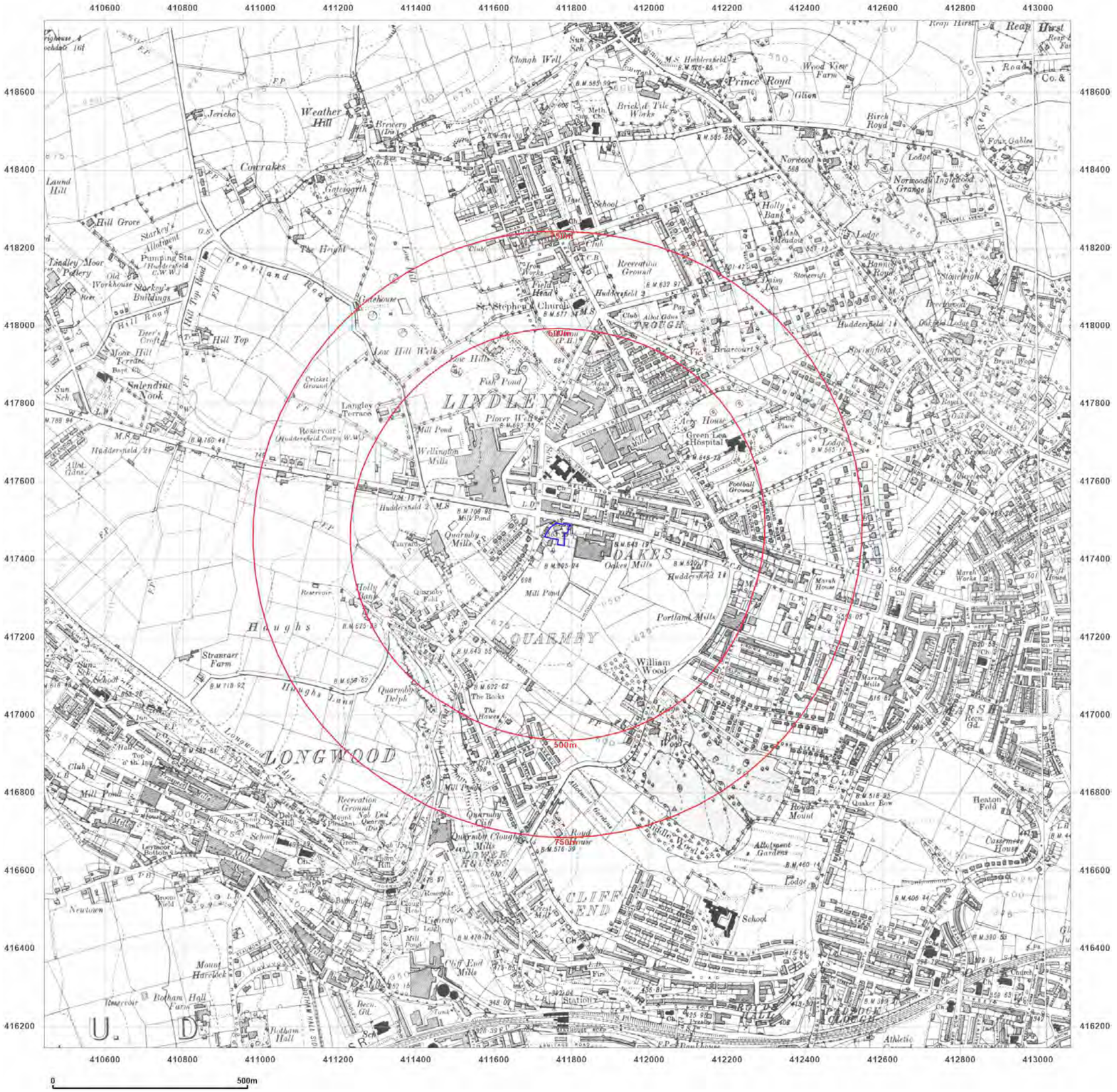

Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: County Series

Map date: **1930-1931**

Scale: 1:10,560

Printed at: 1:10,560

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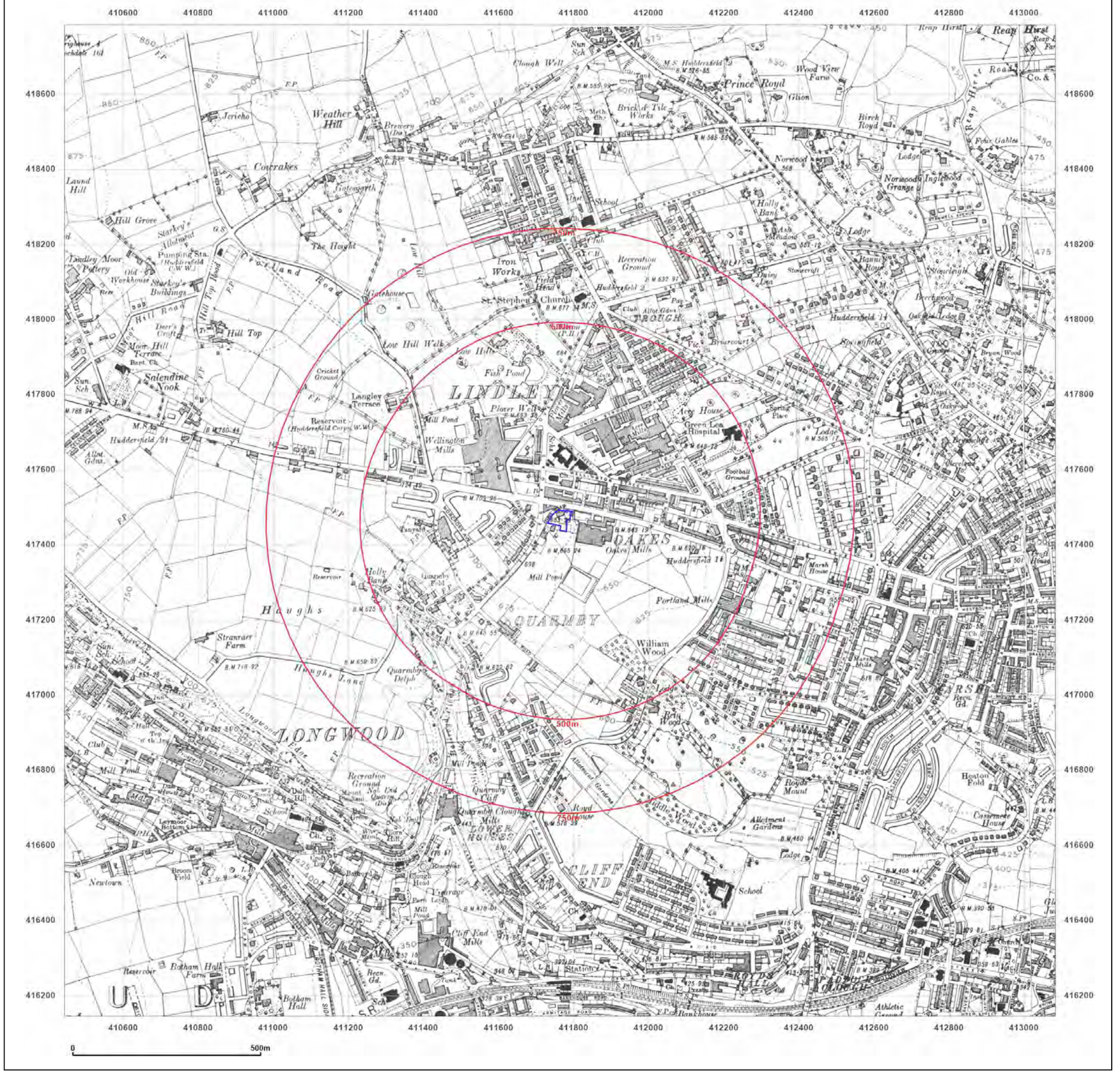

Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES, HUDDERSFIELD, KIRKLEES, HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

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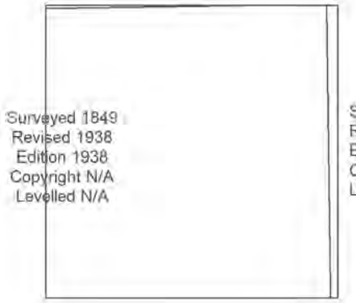

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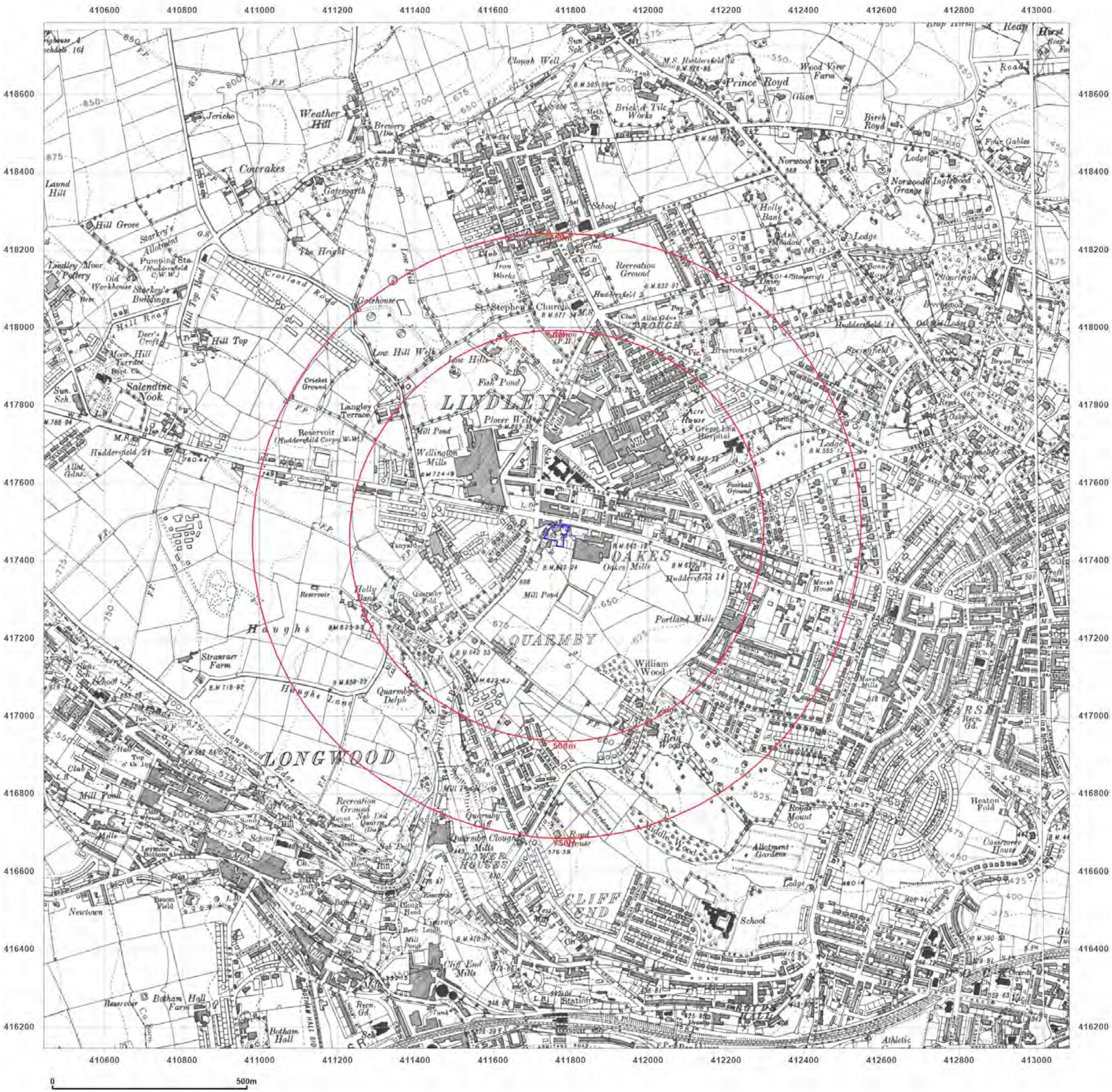

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: County Series

Map date: **1948**

Scale: 1:10,560

Printed at: 1:10,560

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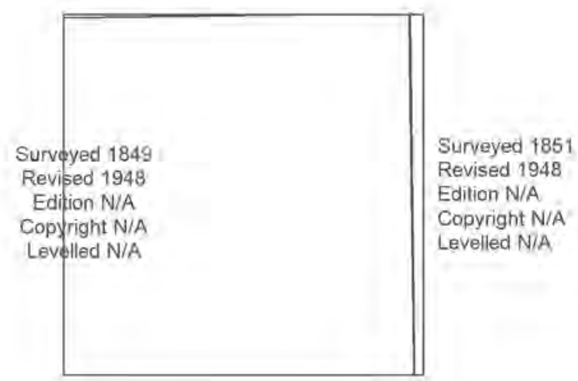

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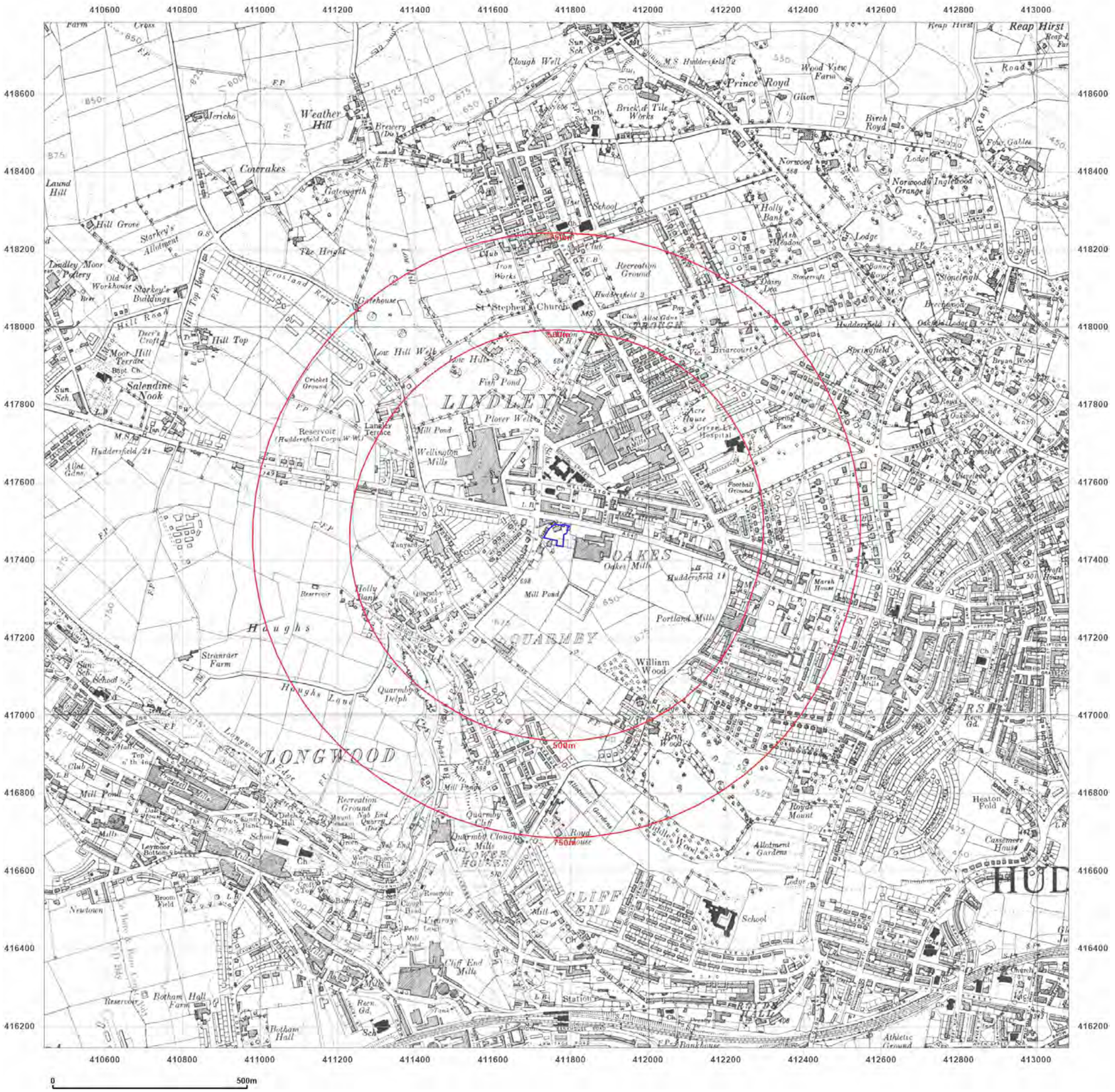

Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

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

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Surveyed 1951
Revised 1951
Edition N/A
Copyright 1956
Levelled N/A

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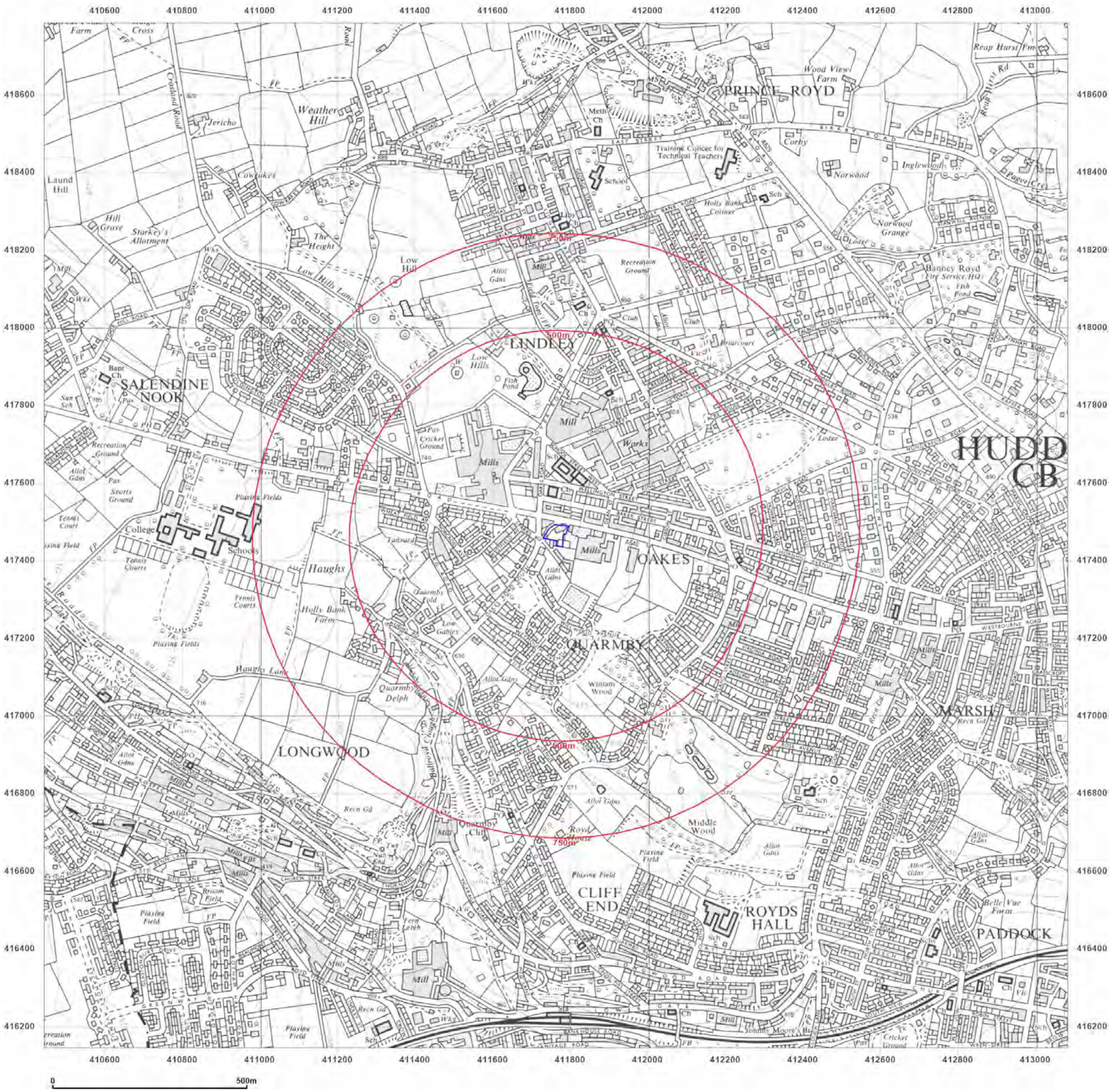

Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: Provisional

Map date: **1966**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1966
Revised 1966
Edition N/A
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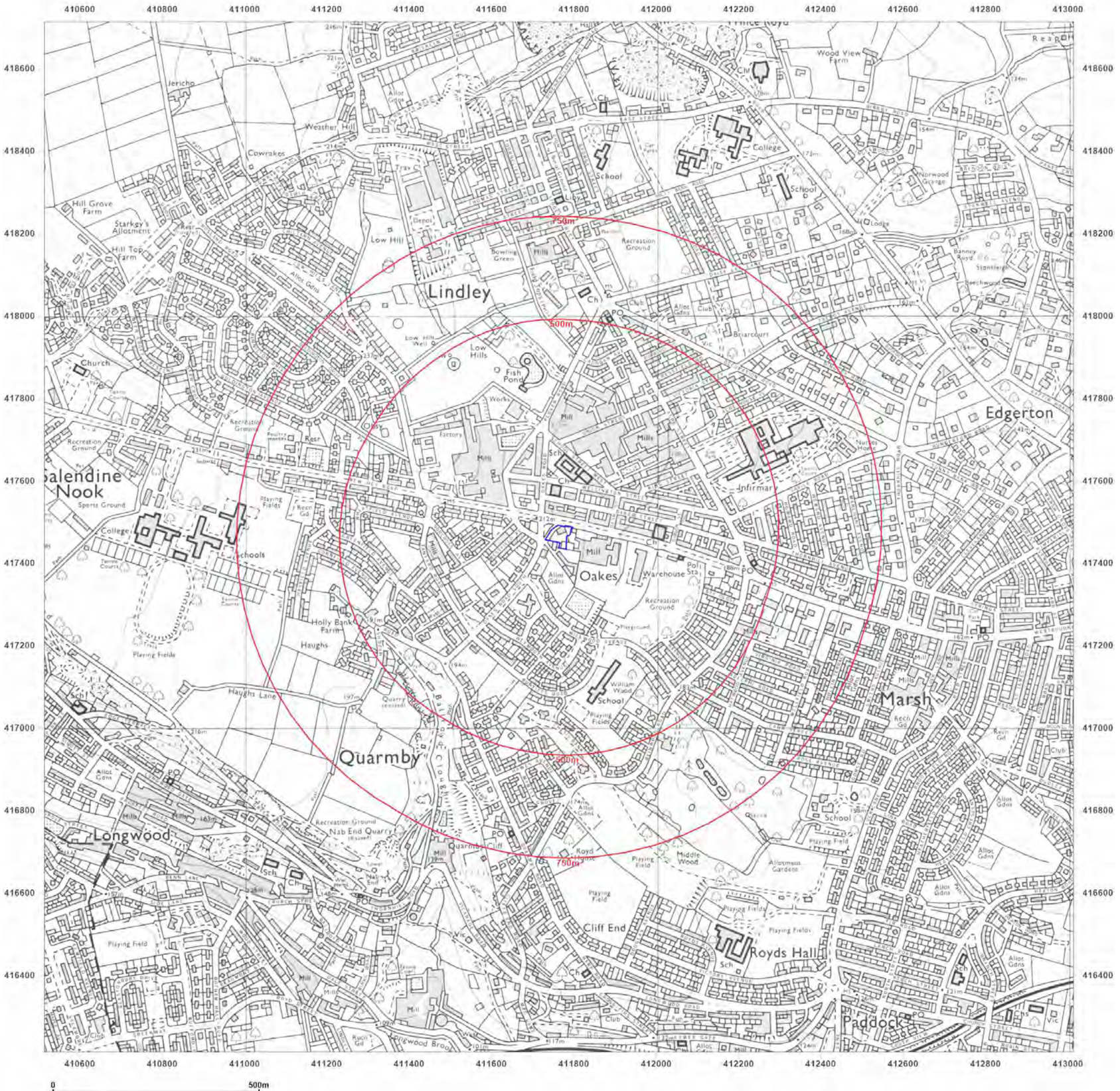

Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES, HUDDERSFIELD, KIRKLEES, HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: National Grid

Map date: **1975**

Scale: 1:10,000

Printed at: 1:10,000

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Surveyed 1974
Revised 1975
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 23 July 2024

Map legend available at:
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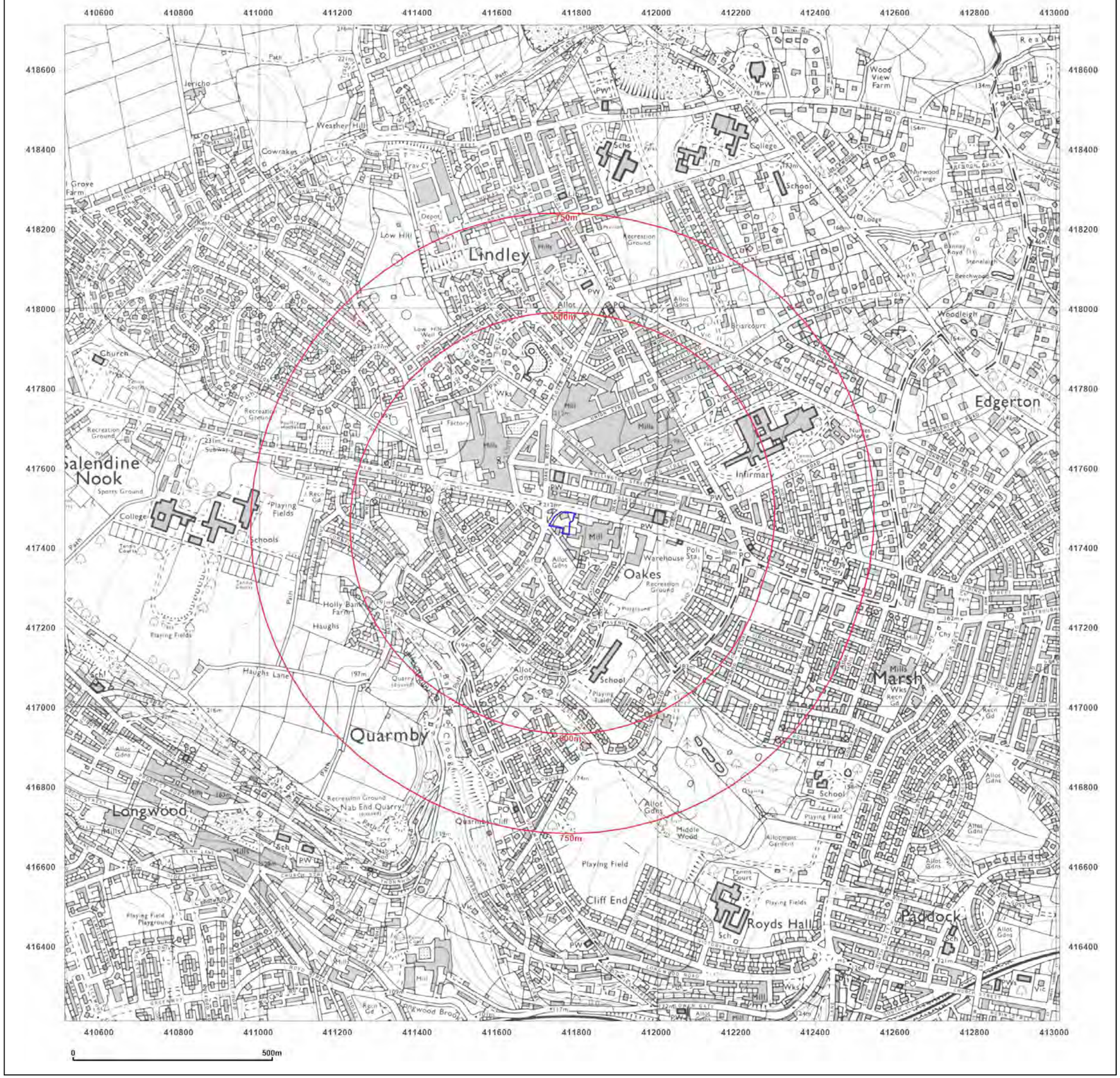

Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: National Grid

Map date: **1985**

Scale: 1:10,000

Printed at: 1:10,000

N
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Surveyed 1984
Revised 1985
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 23 July 2024

Map legend available at:
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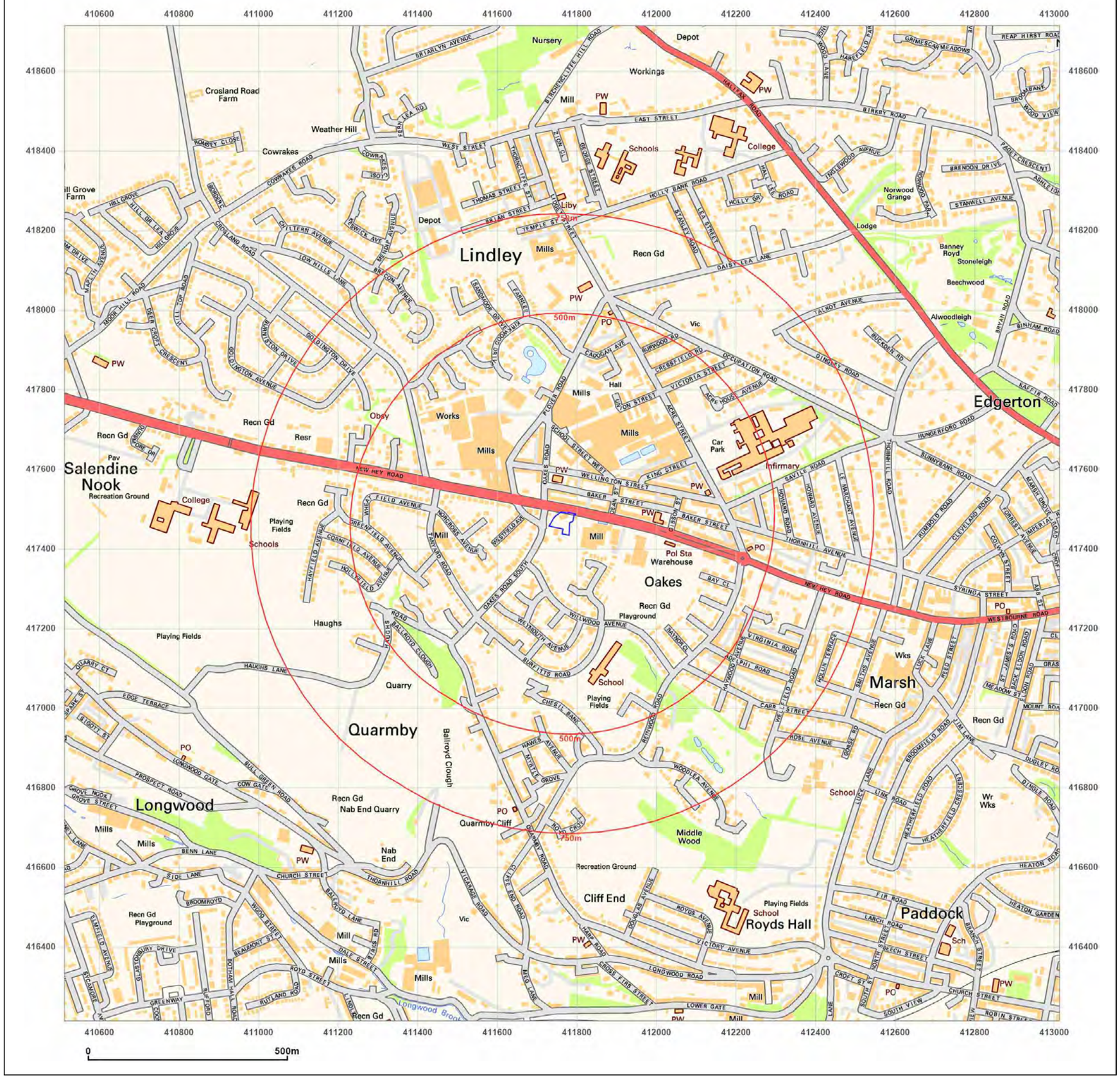

Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES, HUDDERSFIELD, KIRKLEES, HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

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

N W E S

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Production date: 23 July 2024

Map legend available at:
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Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES, HUDDERSFIELD, KIRKLEES, HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

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W: www.groundsure.com

Production date: 23 July 2024

Map legend available at:
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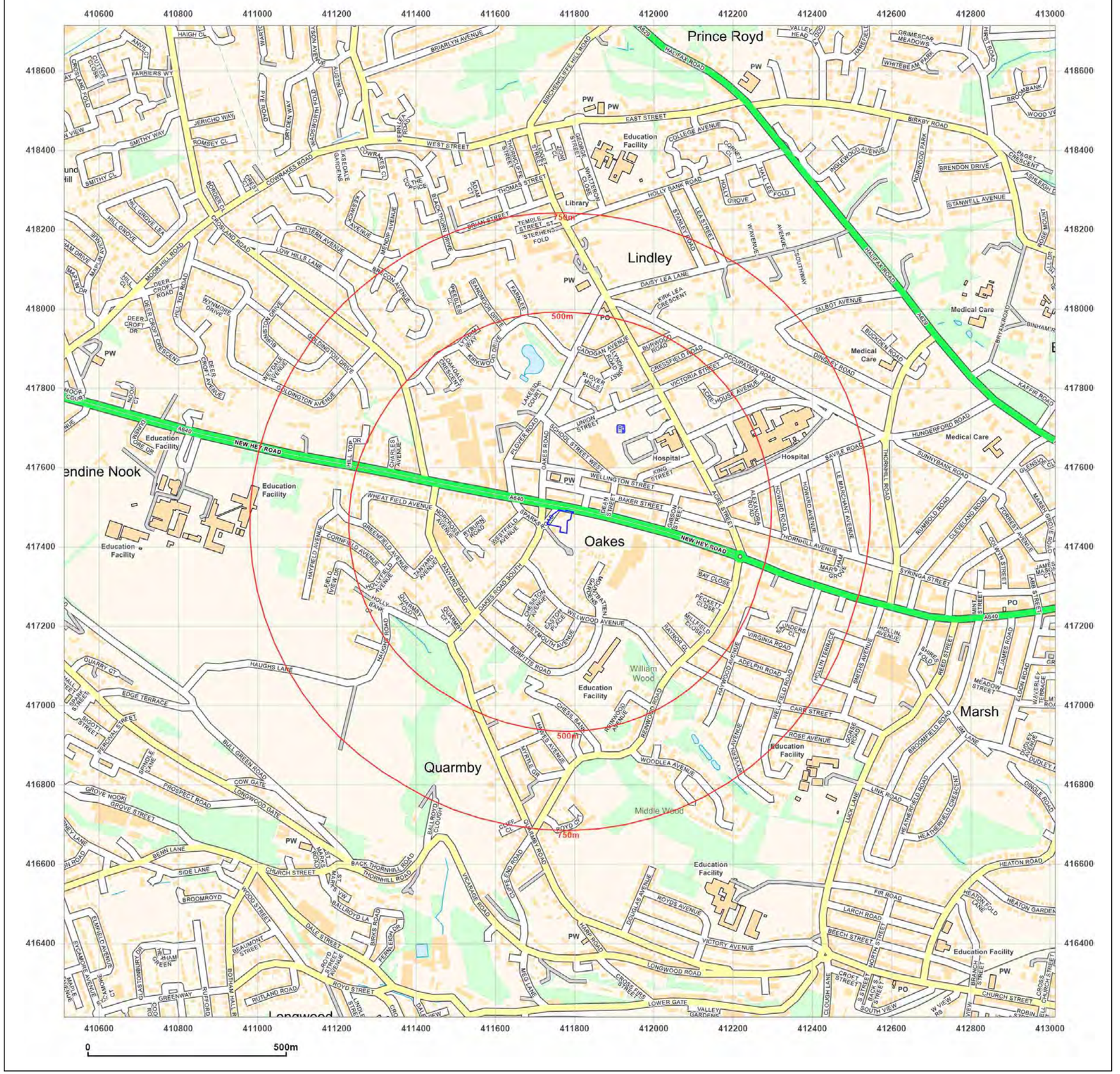

Groundsure INSIGHTS

Site Details:

1 & 1A, SPARKS ROAD, OAKES,
HUDDERSFIELD, KIRKLEES,
HD3 4BX

Client Ref: G24227
Report Ref: GS-4SH-G3H-6VA-8RL
Grid Ref: 411763, 417464

Map Name: National Grid
Map date: **2024**
Scale: 1:10,000
Printed at: 1:10,000

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Production date: 23 July 2024

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APPENDIX 2

GroundSure Enviro + GeoInsight Report

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

1 & 1A, SPARKS ROAD, OAKES, HUDDERSFIELD, KIRKLEES, HD3 4BX

Order Details

Date: 23/07/2024

Your ref: G24227

Our Ref: GS-DME-D8G-53K-BGT

Site Details

Location: 411764 417468

Area: 0.21 ha

Authority: Kirklees Council ↗

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

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	3	3	32	26	-
18 >	1.2 >	Historical tanks >	0	0	14	16	-
19 >	1.3 >	Historical energy features >	0	0	14	20	-
21	1.4	Historical petrol stations	0	0	0	0	-
21 >	1.5 >	Historical garages >	0	0	2	3	-
22	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
23 >	2.1 >	Historical industrial land uses >	3	5	41	34	-
27 >	2.2 >	Historical tanks >	0	0	18	29	-
29 >	2.3 >	Historical energy features >	0	0	21	45	-
31	2.4	Historical petrol stations	0	0	0	0	-
31 >	2.5 >	Historical garages >	0	0	7	7	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
33	3.1	Active or recent landfill	0	0	0	0	-
33	3.2	Historical landfill (BGS records)	0	0	0	0	-
34	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
34 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	1	-
34	3.5	Historical waste sites	0	0	0	0	-
34 >	3.6 >	Licensed waste sites >	0	0	1	0	-
35 >	3.7 >	Waste exemptions >	0	1	5	6	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
37 >	4.1 >	Recent industrial land uses >	0	0	21	-	-
39 >	4.2 >	Current or recent petrol stations >	0	0	0	1	-
39	4.3	Electricity cables	0	0	0	0	-
39	4.4	Gas pipelines	0	0	0	0	-
40	4.5	Sites determined as Contaminated Land	0	0	0	0	-

40	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
40	4.7	Regulated explosive sites	0	0	0	0	-
40	4.8	Hazardous substance storage/usage	0	0	0	0	-
40	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
41	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
41 >	**4.11 >**	**Licensed pollutant release (Part A(2)/B) >**	0	1	2	2	-
42 >	**4.12 >**	**Radioactive Substance Authorisations >**	0	0	0	6	-
43	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
43	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
43	4.15	Pollutant release to public sewer	0	0	0	0	-
43	4.16	List 1 Dangerous Substances	0	0	0	0	-
44 >	**4.17 >**	**List 2 Dangerous Substances >**	0	0	0	1	-
44	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
44	4.19	Pollution inventory substances	0	0	0	0	-
44	4.20	Pollution inventory waste transfers	0	0	0	0	-
45 >	**4.21 >**	**Pollution inventory radioactive waste >**	0	0	0	1	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
46	5.1	Superficial aquifer	None (within 500m)				
47 >	**5.2 >**	**Bedrock aquifer >**	Identified (within 500m)				
48 >	**5.3 >**	**Groundwater vulnerability >**	Identified (within 50m)				
49	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
49	5.5	Groundwater vulnerability- local information	None (within 0m)				
50 >	**5.6 >**	**Groundwater abstractions >**	0	0	3	0	11
54 >	**5.7 >**	**Surface water abstractions >**	0	0	0	0	12
57 >	**5.8 >**	**Potable abstractions >**	0	0	0	0	1
58	5.9	Source Protection Zones	0	0	0	0	-
58	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	**Hydrology >**	On site	0-50m	50-250m	250-500m	500-2000m
59	6.1	Water Network (OS MasterMap)	0	0	0	-	-

59	6.2	Surface water features	0	0	0	-	-
60 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
60 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
61 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
62	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
62	7.2	Historical Flood Events	0	0	0	-	-
62	7.3	Flood Defences	0	0	0	-	-
63	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
63	7.5	Flood Storage Areas	0	0	0	-	-
64	7.6	Flood Zone 2	None (within 50m)				
64	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
65 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
67 >	9.1 >	Groundwater flooding >	Negligible (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
68	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
69	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
69	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
69	10.4	Special Protection Areas (SPA)	0	0	0	0	0
69	10.5	National Nature Reserves (NNR)	0	0	0	0	0
70 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	1
70 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	3
70	10.8	Biosphere Reserves	0	0	0	0	0
71	10.9	Forest Parks	0	0	0	0	0
71	10.10	Marine Conservation Zones	0	0	0	0	0
71 >	10.11 >	Green Belt >	0	0	0	0	3
71	10.12	Proposed Ramsar sites	0	0	0	0	0

72	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
72	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
72	10.15	Nitrate Sensitive Areas	0	0	0	0	0
72	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
73 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
74	10.18	SSSI Units	0	0	0	0	0
Page	Section	**Visual and cultural designations** >	On site	0-50m	50-250m	250-500m	500-2000m
75	11.1	World Heritage Sites	0	0	0	-	-
76	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
76	11.3	National Parks	0	0	0	-	-
76 >	11.4 >	Listed Buildings >	0	3	7	-	-
77	11.5	Conservation Areas	0	0	0	-	-
77	11.6	Scheduled Ancient Monuments	0	0	0	-	-
77	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	**Agricultural designations** >	On site	0-50m	50-250m	250-500m	500-2000m
79 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
80	12.2	Open Access Land	0	0	0	-	-
80	12.3	Tree Felling Licences	0	0	0	-	-
80	12.4	Environmental Stewardship Schemes	0	0	0	-	-
80	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	**Habitat designations** >	On site	0-50m	50-250m	250-500m	500-2000m
81	13.1	Priority Habitat Inventory	0	0	0	-	-
81	13.2	Habitat Networks	0	0	0	-	-
82 >	13.3 >	Open Mosaic Habitat >	0	0	1	-	-
82	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
83 >	14.1 >	10k Availability >	Identified (within 500m)				
84 >	14.2 >	Artificial and made ground (10k) >	0	0	0	3	-
85	14.3	Superficial geology (10k)	0	0	0	0	-

85	14.4	Landslip (10k)	0	0	0	0	-
86 >	14.5 >	Bedrock geology (10k) >	1	0	1	2	-
87 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	0	2	-
Page	Section	**Geology 1:50,000 scale** >	On site	0-50m	50-250m	250-500m	500-2000m
88 >	15.1 >	50k Availability >	Identified (within 500m)				
89 >	15.2 >	Artificial and made ground (50k) >	0	0	0	1	-
90	15.3	Artificial ground permeability (50k)	0	0	-	-	-
91	15.4	Superficial geology (50k)	0	0	0	0	-
91	15.5	Superficial permeability (50k)	None (within 50m)				
91	15.6	Landslip (50k)	0	0	0	0	-
91	15.7	Landslip permeability (50k)	None (within 50m)				
92 >	15.8 >	Bedrock geology (50k) >	1	0	1	2	-
93 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
93 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	0	1	-
Page	Section	**Boreholes** >	On site	0-50m	50-250m	250-500m	500-2000m
94 >	16.1 >	BGS Boreholes >	0	0	29	-	-
Page	Section	**Natural ground subsidence** >					
97 >	17.1 >	Shrink swell clays >	Negligible (within 50m)				
98 >	17.2 >	Running sands >	Negligible (within 50m)				
99 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
100 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
101 >	17.5 >	Landslides >	Very low (within 50m)				
102 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	**Mining and ground workings** >	On site	0-50m	50-250m	250-500m	500-2000m
104	18.1	BritPits	0	0	0	0	-
105 >	18.2 >	Surface ground workings >	2	3	24	-	-
106	18.3	Underground workings	0	0	0	0	0
106	18.4	Underground mining extents	0	0	0	0	-
106	18.5	Historical Mineral Planning Areas	0	0	0	0	-

107 >	18.6 >	Non-coal mining >	0	0	0	1	0
107	18.7	JPB mining areas	None (within 0m)				
107	18.8	The Coal Authority non-coal mining	0	0	0	0	-
107	18.9	Researched mining	0	0	0	0	-
108	18.10	Mining record office plans	0	0	0	0	-
108	18.11	BGS mine plans	0	0	0	0	-
108 >	18.12 >	Coal mining >	Identified (within 0m)				
108	18.13	Brine areas	None (within 0m)				
109	18.14	Gypsum areas	None (within 0m)				
109	18.15	Tin mining	None (within 0m)				
109	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes >	On site	0-50m	50-250m	250-500m	500-2000m
110	19.1	Natural cavities	0	0	0	0	-
111 >	19.2 >	Mining cavities >	0	0	0	0	2
111	19.3	Reported recent incidents	0	0	0	0	-
111	19.4	Historical incidents	0	0	0	0	-
112	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
113 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
115 >	21.1 >	BGS Estimated Background Soil Chemistry >	1	1	-	-	-
115	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
115	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
116	22.1	Underground railways (London)	0	0	0	-	-
116	22.2	Underground railways (Non-London)	0	0	0	-	-
117	22.3	Railway tunnels	0	0	0	-	-
117 >	22.4 >	Historical railway and tunnel features >	0	0	9	-	-
117	22.5	Royal Mail tunnels	0	0	0	-	-

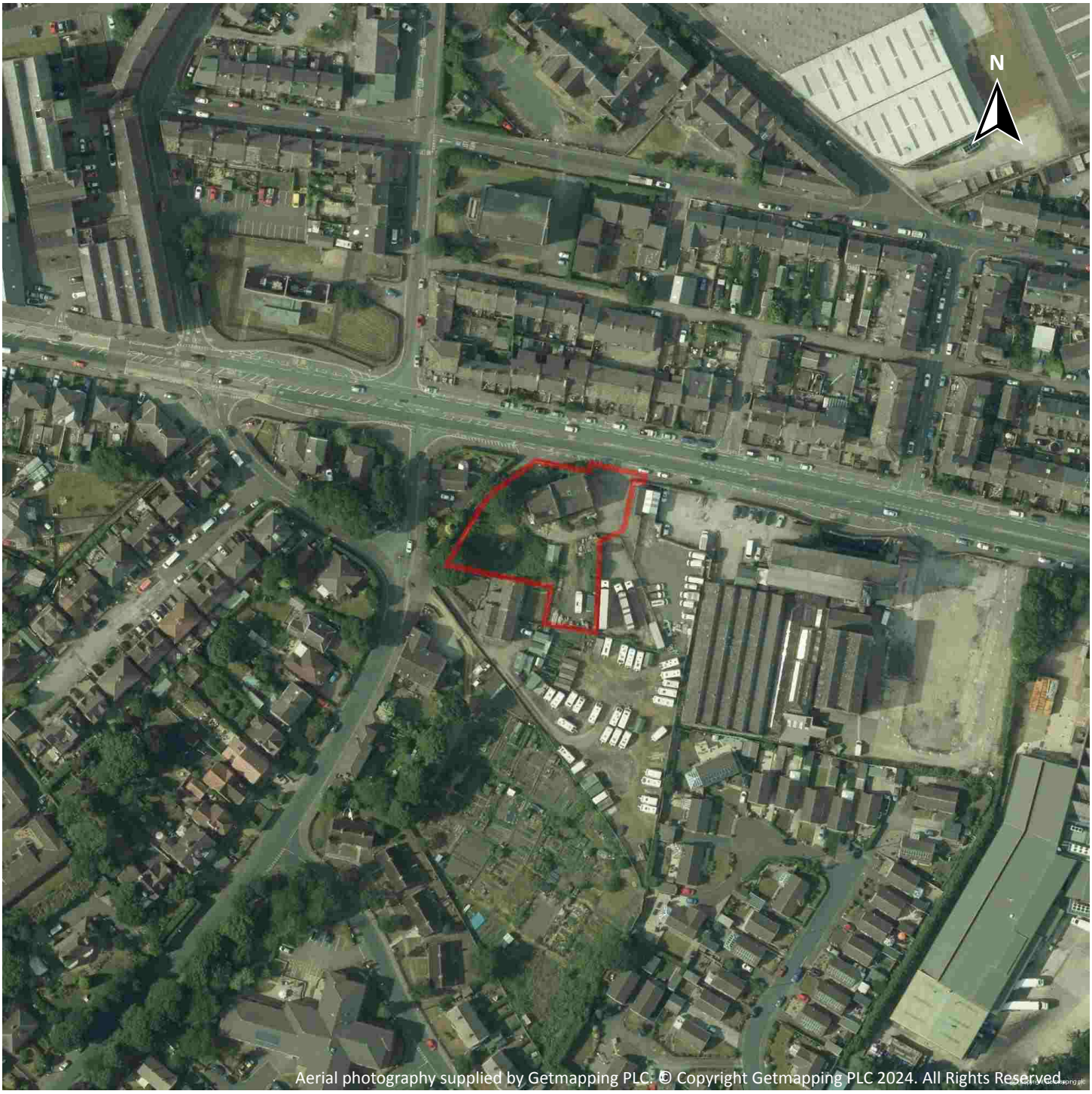
118	22.6	Historical railways	0	0	0	-	-
118	22.7	Railways	0	0	0	-	-
118	22.8	Crossrail 1	0	0	0	0	-
118	22.9	Crossrail 2	0	0	0	0	-
118	22.10	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 30/05/2021

Site Area: 0.21ha

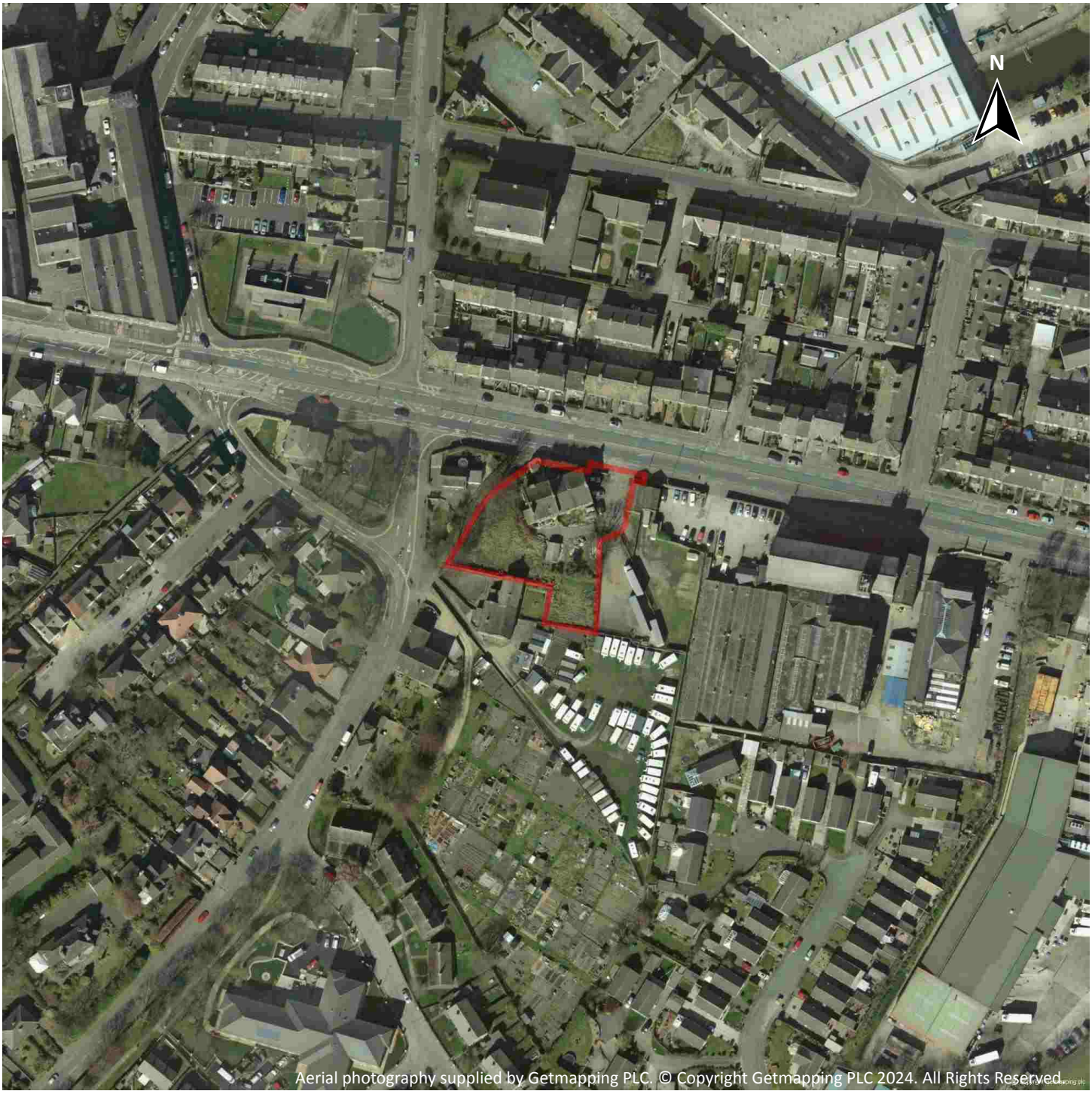
Recent site history - 2018 aerial photograph



Capture Date: 01/07/2018

Site Area: 0.21ha

Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.21ha

Recent site history - 2000 aerial photograph

Capture Date: 25/08/2000

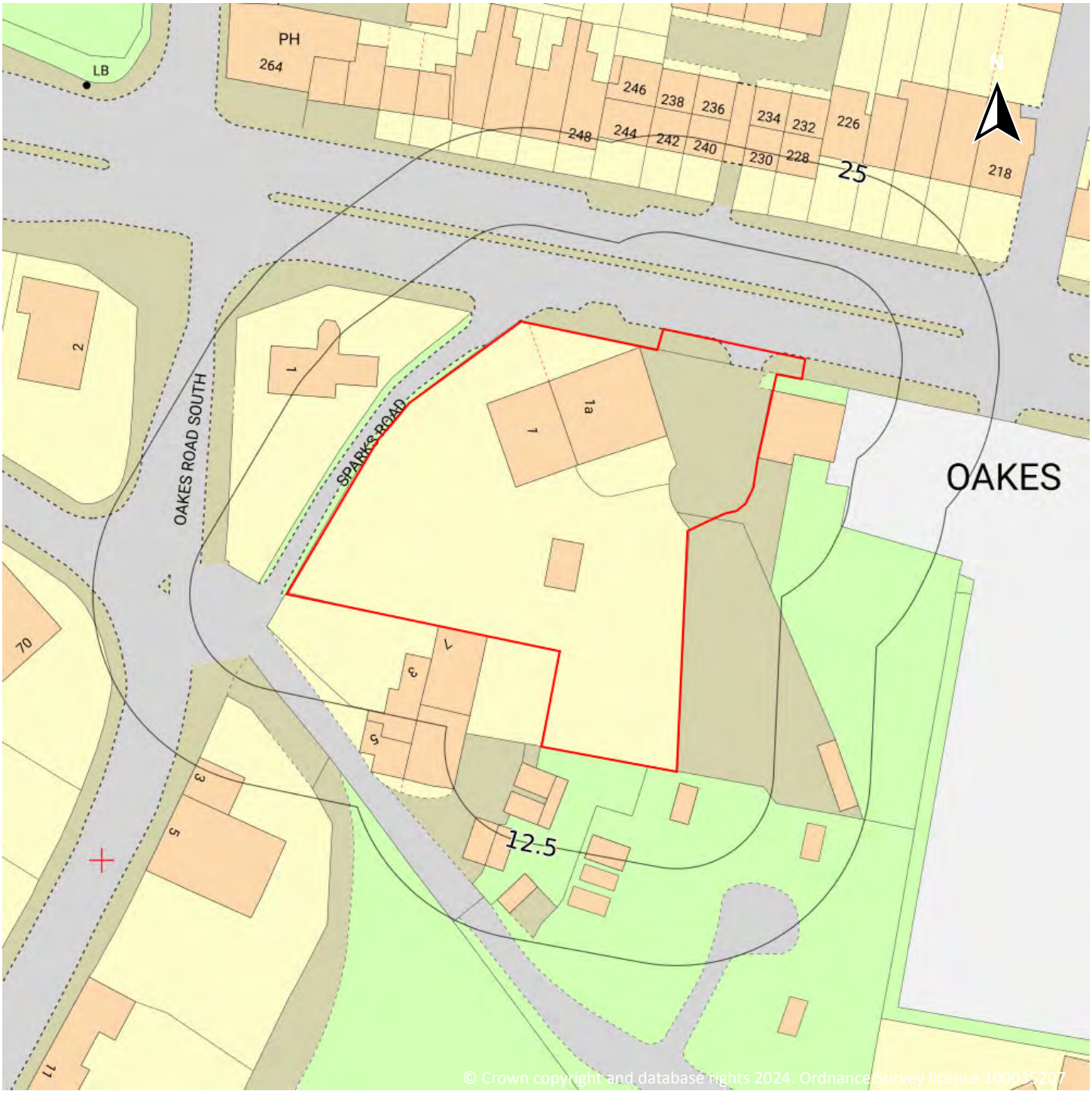
Site Area: 0.21ha

Recent site history - 1999 aerial photograph

Capture Date: 05/09/1999

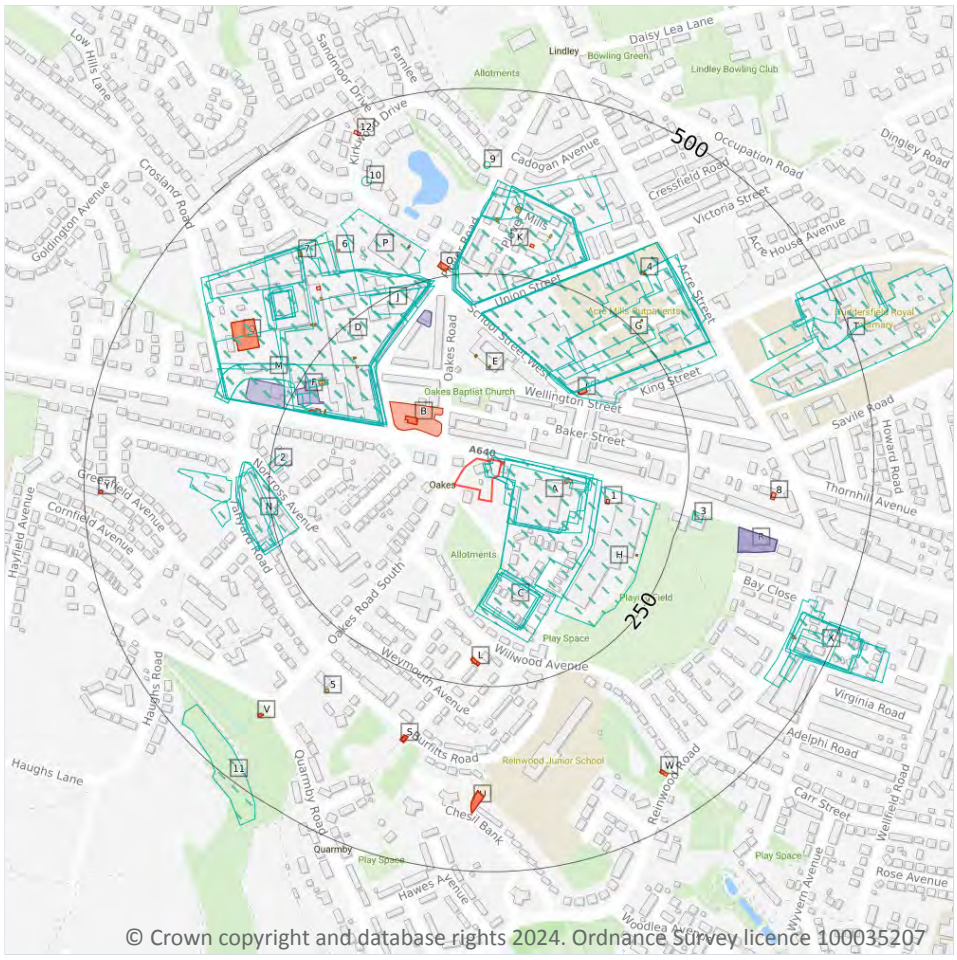
Site Area: 0.21ha

OS MasterMap site plan



Site Area: 0.21ha

1 Past land use



1.1 Historical industrial land uses

Records within 500m	64

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 15 >**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Woollen Mill**	**1890**	**1435756**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Mills**	**1905**	**1499376**
A	**On site**	**Unspecified Mills**	**1948**	**1582131**
A	1m NE	Unspecified Mills	1956 - 1966	1490011
A	1m NE	Unspecified Mills	1938	1497773
A	11m E	Unspecified Mill	1975 - 1985	1570255
C	95m S	Mill Pond	1890	1569086
C	96m S	Mill Pond	1938 - 1948	1508382
C	97m S	Mill Pond	1956	1560726
C	98m S	Mill Pond	1905	1485344
D	120m NW	Unspecified Mills	1975 - 1985	1486639
D	121m NW	Woollen Mills	1890	1446367
D	122m NW	Unspecified Mills	1938	1570150
D	124m NW	Unspecified Mills	1956 - 1966	1576097
F	124m NW	Railway Sidings	1956	1571672
D	126m NW	Unspecified Mills	1948	1511043
D	128m NW	Unspecified Mills	1905	1512700
G	128m NE	Unspecified Mills	1905	1519790
G	130m NE	Unspecified Mills	1948	1497219
G	132m NE	Unspecified Mills	1938	1561154
G	133m NE	Unspecified Works	1966	1460198
G	133m NE	Unspecified Mills	1975 - 1985	1504628
G	133m NE	Unspecified Mills	1956	1505225
H	137m E	Unspecified Warehouse	1975 - 1985	1493191
G	140m NE	Mill Ponds	1890	1480510
G	164m NE	Cards Mills	1890	1470104
K	207m N	Unspecified Mill	1948	1571345
K	207m N	Unspecified Mills	1905	1547582
K	208m N	Unspecified Mill	1966 - 1985	1520713

ID	Location	Land use	Dates present	Group ID
K	208m N	Unspecified Mills	1956	1526643
K	208m N	Unspecified Mills	1938	1572801
K	212m N	Woollen Mills	1890	1446366
M	216m NW	Railway Sidings	1938 - 1948	1531559
N	218m W	Tan Yard	1938	1446353
J	220m NW	Mill Pond	1890	1436695
2	228m W	Mill Pond	1905	1436696
M	231m NW	Railway Sidings	1905	1501790
N	234m W	Unspecified Mills	1975 - 1985	1539560
N	252m W	Woollen Mill	1890	1435757
N	253m W	Unspecified Mills	1905	1512638
P	263m N	Unspecified Works	1975 - 1985	1482979
3	264m E	Police Station	1975 - 1985	1495955
N	301m W	Tan Yard	1956 - 1966	1533956
N	306m W	Smithy	1905	1454753
D	307m NW	Mill Pond	1938	1524883
D	307m NW	Mill Pond	1956	1581535
D	309m NW	Mill Pond	1890	1525453
D	309m NW	Mill Pond	1905	1484758
D	309m NW	Mill Pond	1948	1506592
D	330m NW	Unspecified Factory	1975 - 1985	1541702
K	340m N	Unspecified Tank	1985	1472514
T	351m E	Infirmary	1975 - 1985	1541280
T	383m E	Hospital	1938	1514934
9	392m N	Unspecified Tank	1966	1472515
10	397m N	Unspecified Tank	1966 - 1975	1533721
T	434m NE	Hospital	1948	1547817
T	437m NE	Hospital	1956	1549480

ID	Location	Land use	Dates present	Group ID
X	439m SE	Unspecified Mills	1905	1497391
X	443m SE	Unspecified Mills	1948 - 1956	1559422
X	445m SE	Unspecified Mills	1938	1490746
X	448m SE	Unspecified Mills	1890	1511275
X	455m SE	Unspecified Mills	1975	1538691
X	455m SE	Unspecified Mill	1966	1448567
11	457m SW	Unspecified Disused Quarry	1975 - 1985	1539894

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**30**

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

Features are displayed on the Past land use map on **page 15 >**

ID	Location	Land use	Dates present	Group ID
E	122m N	Unspecified Tank	1993	256229
E	123m N	Unspecified Tank	1982	246556
E	124m N	Unspecified Tank	1995	246836
E	136m N	Unspecified Tank	1993 - 1995	260402
E	137m N	Unspecified Tank	1982	255697
D	197m NW	Tanks	1982 - 1996	255634
F	199m W	Tanks	1982	233853
H	208m SE	Unspecified Tank	1984	254406
D	208m NW	Tanks	1995	246900
D	208m NW	Tanks	1996	260249
D	208m NW	Tanks	1993	261181

ID	Location	Land use	Dates present	Group ID
H	208m SE	Unspecified Tank	1993	255151
D	209m NW	Tanks	1982	252053
F	219m NW	Unspecified Tank	1907	237816
G	266m NE	Unspecified Tank	1996	251680
G	266m NE	Unspecified Tank	1993	253725
G	266m NE	Unspecified Tank	1995	254505
G	267m NE	Unspecified Tank	1982	255384
D	278m NW	Tanks	1982	233851
D	281m NW	Tanks	1982	233852
D	297m NW	Unspecified Tank	1982 - 1996	261027
P	298m N	Unspecified Tank	1982 - 1996	250501
K	309m N	Tanks	1982	233849
4	316m NE	Unspecified Tank	1982 - 1996	255168
K	321m N	Unspecified Tank	1893	237815
5	324m SW	Unspecified Tank	1984 - 1993	252452
K	335m N	Unspecified Tank	1982 - 1996	253338
6	336m NW	Unspecified Tank	1982	237811
7	360m NW	Tanks	1982	233850
X	445m SE	Unspecified Tank	1893	237813

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	34

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 15 >**

ID	Location	Land use	Dates present	Group ID
B	55m NW	Electricity Substation	1993	150034
A	86m E	Electricity Substation	1993	155037
B	87m NW	Electricity Substation	1982	161139
B	87m NW	Electricity Substation	1995 - 1996	155159
A	89m E	Electricity Substation	1969 - 1984	159388
I	137m NE	Electricity Substation	1993 - 1996	158927
I	138m NE	Electricity Substation	1982	159549
1	148m E	Electricity Substation	1969 - 1993	161404
F	204m W	Electricity Substations	1993 - 1995	155337
F	211m W	Electricity Substations	1982	152351
L	211m S	Electricity Substation	1969	161982
L	212m S	Electricity Substation	1993	156509
L	217m S	Electricity Substation	1984	158454
F	218m W	Electricity Substation	1996	143792
O	256m N	Electricity Substation	1993 - 1996	154379
O	257m N	Electricity Substation	1982	161378
K	291m N	Electricity Substation	1982 - 1996	149681
D	309m NW	Electricity Substation	1982 - 1996	152418
Q	321m NW	Electricity Substation	1993	157377
Q	321m NW	Electricity Substation	1972 - 1990	161546
S	333m S	Electricity Substation	1969	155602
S	334m S	Electricity Substation	1993	157383
S	336m S	Electricity Substation	1984	160456
8	363m E	Electricity Substation	1972 - 1989	159479
U	391m S	Electricity Substation	1984	151594
U	391m S	Electricity Substation	1969	152311
U	392m S	Electricity Substation	1993	155116
V	403m SW	Electricity Substation	1968	156600

ID	Location	Land use	Dates present	Group ID
V	404m SW	Electricity Substation	1990 - 1999	156177
W	428m SE	Electricity Substation	1972	152720
W	429m SE	Electricity Substation	1980 - 1989	157736
12	464m N	Electricity Substation	1982 - 1996	158838
Y	474m W	Electricity Substation	1968	156382
Y	475m W	Electricity Substation	1990 - 1999	153601

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 15 >**

ID	Location	Land use	Dates present	Group ID
J	189m N	Garage	1962 - 1996	48364
F	207m NW	Garage	1996	45708
M	252m W	Garage	1972 - 1980	47250
R	329m E	Garage	1972	46881
R	329m E	Garage	1980 - 1989	49960

This data is sourced from Ordnance Survey / Groundsure.

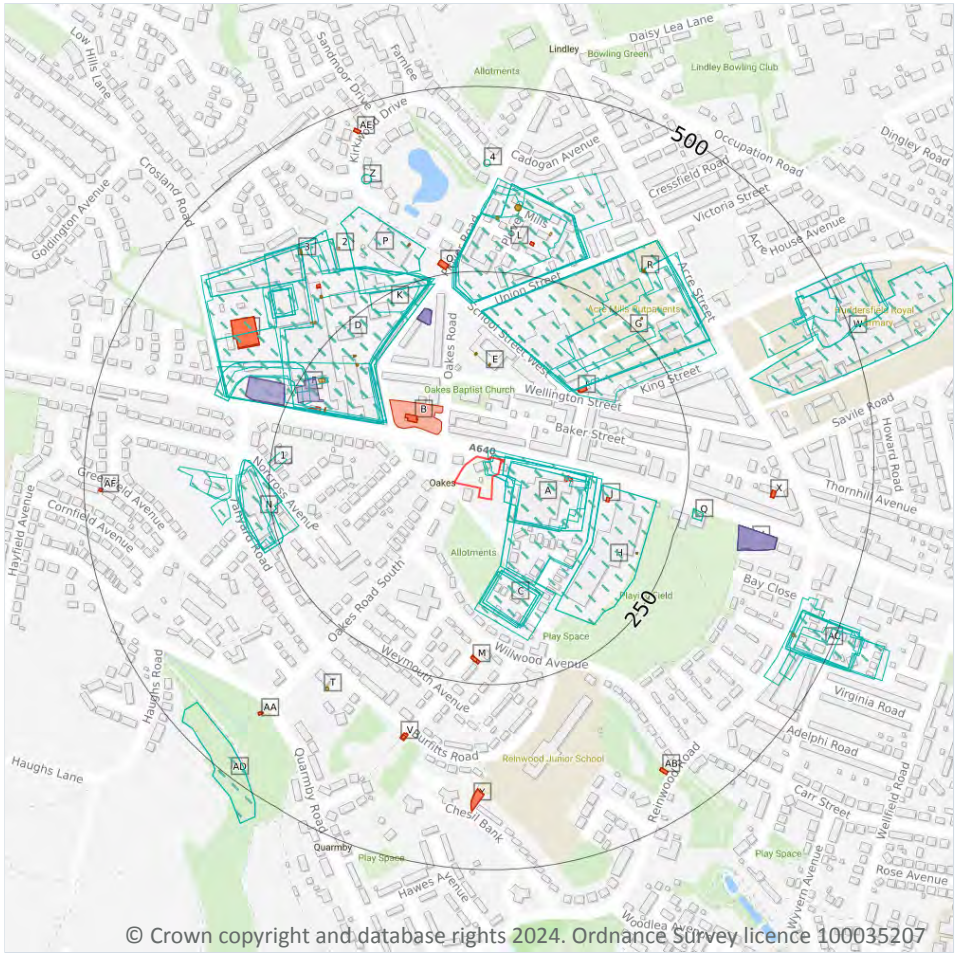
1.6 Historical military land

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	83

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 23 >**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Mills**	**1948**	**1582131**
A	**On site**	**Woollen Mill**	**1890**	**1435756**
A	**On site**	**Unspecified Mills**	**1905**	**1499376**

ID	Location	Land Use	Date	Group ID
A	1m NE	Unspecified Mills	1956	1490011
A	1m NE	Unspecified Mills	1938	1497773
A	10m E	Unspecified Mills	1966	1490011
A	11m E	Unspecified Mill	1975	1570255
A	11m E	Unspecified Mill	1985	1570255
C	95m S	Mill Pond	1890	1569086
C	96m S	Mill Pond	1938	1508382
C	97m S	Mill Pond	1956	1560726
C	98m S	Mill Pond	1948	1508382
C	98m S	Mill Pond	1905	1485344
D	120m NW	Unspecified Mills	1975	1486639
D	120m NW	Unspecified Mills	1985	1486639
D	121m NW	Woollen Mills	1890	1446367
D	122m NW	Unspecified Mills	1938	1570150
D	124m NW	Unspecified Mills	1956	1576097
D	124m NW	Unspecified Mills	1966	1576097
F	124m NW	Railway Sidings	1956	1571672
D	126m NW	Unspecified Mills	1948	1511043
D	128m NW	Unspecified Mills	1905	1512700
G	128m NE	Unspecified Mills	1905	1519790
G	130m NE	Unspecified Mills	1948	1497219
G	132m NE	Unspecified Mills	1938	1561154
G	133m NE	Unspecified Mills	1975	1504628
G	133m NE	Unspecified Mills	1956	1505225
G	133m NE	Unspecified Mills	1985	1504628
G	133m NE	Unspecified Works	1966	1460198
H	137m E	Unspecified Warehouse	1975	1493191
H	137m E	Unspecified Warehouse	1985	1493191

ID	Location	Land Use	Date	Group ID
G	140m NE	Mill Ponds	1890	1480510
G	164m NE	Cards Mills	1890	1470104
L	207m N	Unspecified Mill	1948	1571345
L	207m N	Unspecified Mills	1905	1547582
L	208m N	Unspecified Mill	1975	1520713
L	208m N	Unspecified Mills	1956	1526643
L	208m N	Unspecified Mill	1985	1520713
L	208m N	Unspecified Mill	1966	1520713
L	208m N	Unspecified Mills	1938	1572801
L	212m N	Woollen Mills	1890	1446366
F	216m NW	Railway Sidings	1938	1531559
N	218m W	Tan Yard	1938	1446353
K	220m NW	Mill Pond	1890	1436695
1	228m W	Mill Pond	1905	1436696
F	231m NW	Railway Sidings	1948	1531559
F	231m NW	Railway Sidings	1905	1501790
N	234m W	Unspecified Mills	1975	1539560
N	234m W	Unspecified Mills	1985	1539560
N	252m W	Woollen Mill	1890	1435757
N	253m W	Unspecified Mills	1905	1512638
P	263m N	Unspecified Works	1975	1482979
P	263m N	Unspecified Works	1985	1482979
Q	264m E	Police Station	1975	1495955
Q	264m E	Police Station	1985	1495955
N	301m W	Tan Yard	1966	1533956
N	304m W	Tan Yard	1956	1533956
N	306m W	Smithy	1905	1454753
D	307m NW	Mill Pond	1938	1524883

ID	Location	Land Use	Date	Group ID
D	307m NW	Mill Pond	1956	1581535
D	309m NW	Mill Pond	1890	1525453
D	309m NW	Mill Pond	1948	1506592
D	309m NW	Mill Pond	1905	1484758
D	330m NW	Unspecified Factory	1975	1541702
D	330m NW	Unspecified Factory	1985	1541702
L	340m N	Unspecified Tank	1985	1472514
W	351m E	Infirmary	1975	1541280
W	351m E	Infirmary	1985	1541280
W	383m E	Hospital	1938	1514934
4	392m N	Unspecified Tank	1966	1472515
Z	397m N	Unspecified Tank	1975	1533721
Z	397m N	Unspecified Tank	1966	1533721
W	434m NE	Hospital	1948	1547817
W	437m NE	Hospital	1956	1549480
AC	439m SE	Unspecified Mills	1905	1497391
AC	443m SE	Unspecified Mills	1948	1559422
AC	445m SE	Unspecified Mills	1938	1490746
AC	446m SE	Unspecified Mills	1956	1559422
AC	448m SE	Unspecified Mills	1890	1511275
AC	455m SE	Unspecified Mills	1975	1538691
AC	455m SE	Unspecified Mill	1966	1448567
AD	457m SW	Unspecified Disused Quarry	1975	1539894
AD	457m SW	Unspecified Disused Quarry	1985	1539894

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	47

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 23 >**

ID	Location	Land Use	Date	Group ID
E	122m N	Unspecified Tank	1993	256229
E	123m N	Unspecified Tank	1982	246556
E	124m N	Unspecified Tank	1995	246836
E	136m N	Unspecified Tank	1993	260402
E	137m N	Unspecified Tank	1982	255697
E	137m N	Unspecified Tank	1995	260402
D	197m NW	Tanks	1993	255634
D	197m NW	Tanks	1995	255634
D	197m NW	Tanks	1996	255634
D	198m NW	Tanks	1982	255634
F	199m W	Tanks	1982	233853
H	208m SE	Unspecified Tank	1984	254406
D	208m NW	Tanks	1993	261181
D	208m NW	Tanks	1995	246900
D	208m NW	Tanks	1996	260249
H	208m SE	Unspecified Tank	1993	255151
D	209m NW	Tanks	1982	252053
F	219m NW	Unspecified Tank	1907	237816
G	266m NE	Unspecified Tank	1993	253725
G	266m NE	Unspecified Tank	1995	254505
G	266m NE	Unspecified Tank	1996	251680
G	267m NE	Unspecified Tank	1982	255384
D	278m NW	Tanks	1982	233851

ID	Location	Land Use	Date	Group ID
D	281m NW	Tanks	1982	233852
D	297m NW	Unspecified Tank	1993	261027
D	297m NW	Unspecified Tank	1995	261027
D	297m NW	Unspecified Tank	1996	261027
D	298m NW	Unspecified Tank	1982	261027
P	298m N	Unspecified Tank	1993	250501
P	298m N	Unspecified Tank	1995	250501
P	298m N	Unspecified Tank	1996	250501
P	298m N	Unspecified Tank	1982	250501
L	309m N	Tanks	1982	233849
R	316m NE	Unspecified Tank	1993	255168
R	316m NE	Unspecified Tank	1995	255168
R	316m NE	Unspecified Tank	1996	255168
R	317m NE	Unspecified Tank	1982	255168
L	321m N	Unspecified Tank	1893	237815
T	324m SW	Unspecified Tank	1993	252452
T	325m SW	Unspecified Tank	1984	252452
L	335m N	Unspecified Tank	1982	253338
L	336m N	Unspecified Tank	1993	253338
L	336m N	Unspecified Tank	1995	253338
L	336m N	Unspecified Tank	1996	253338
2	336m NW	Unspecified Tank	1982	237811
3	360m NW	Tanks	1982	233850
AC	445m SE	Unspecified Tank	1893	237813

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	66

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 23 >**

ID	Location	Land Use	Date	Group ID
B	55m NW	Electricity Substation	1993	150034
A	86m E	Electricity Substation	1993	155037
B	87m NW	Electricity Substation	1982	161139
B	87m NW	Electricity Substation	1995	155159
B	87m NW	Electricity Substation	1996	155159
A	89m E	Electricity Substation	1969	159388
A	90m E	Electricity Substation	1984	159388
I	137m NE	Electricity Substation	1993	158927
I	137m NE	Electricity Substation	1995	158927
I	137m NE	Electricity Substation	1996	158927
I	138m NE	Electricity Substation	1982	159549
J	148m E	Electricity Substation	1984	161404
J	148m E	Electricity Substation	1969	161404
J	148m E	Electricity Substation	1993	161404
F	204m W	Electricity Substations	1993	155337
F	205m W	Electricity Substations	1995	155337
F	211m W	Electricity Substations	1982	152351
M	211m S	Electricity Substation	1969	161982
M	212m S	Electricity Substation	1993	156509
M	217m S	Electricity Substation	1984	158454
F	218m W	Electricity Substation	1996	143792
O	256m N	Electricity Substation	1993	154379
O	256m N	Electricity Substation	1995	154379

ID	Location	Land Use	Date	Group ID
O	256m N	Electricity Substation	1996	154379
O	257m N	Electricity Substation	1982	161378
L	291m N	Electricity Substation	1982	149681
L	291m N	Electricity Substation	1993	149681
L	291m N	Electricity Substation	1995	149681
L	291m N	Electricity Substation	1996	149681
D	309m NW	Electricity Substation	1993	152418
D	309m NW	Electricity Substation	1995	152418
D	309m NW	Electricity Substation	1996	152418
D	310m NW	Electricity Substation	1982	152418
S	321m NW	Electricity Substation	1993	157377
S	321m NW	Electricity Substation	1972	161546
S	322m NW	Electricity Substation	1980	161546
S	322m NW	Electricity Substation	1990	161546
S	322m NW	Electricity Substation	1990	161546
V	333m S	Electricity Substation	1969	155602
V	334m S	Electricity Substation	1993	157383
V	336m S	Electricity Substation	1984	160456
X	363m E	Electricity Substation	1980	159479
X	363m E	Electricity Substation	1980	159479
X	363m E	Electricity Substation	1980	159479
X	363m E	Electricity Substation	1989	159479
X	363m E	Electricity Substation	1989	159479
X	364m E	Electricity Substation	1972	159479
Y	391m S	Electricity Substation	1984	151594
Y	391m S	Electricity Substation	1969	152311
Y	392m S	Electricity Substation	1993	155116
AA	403m SW	Electricity Substation	1968	156600

ID	Location	Land Use	Date	Group ID
AA	404m SW	Electricity Substation	1999	156177
AA	405m SW	Electricity Substation	1990	156177
AB	428m SE	Electricity Substation	1972	152720
AB	429m SE	Electricity Substation	1980	157736
AB	429m SE	Electricity Substation	1980	157736
AB	429m SE	Electricity Substation	1980	157736
AB	429m SE	Electricity Substation	1989	157736
AB	429m SE	Electricity Substation	1989	157736
AE	464m N	Electricity Substation	1993	158838
AE	464m N	Electricity Substation	1995	158838
AE	464m N	Electricity Substation	1996	158838
AE	465m N	Electricity Substation	1982	158838
AF	474m W	Electricity Substation	1968	156382
AF	475m W	Electricity Substation	1999	153601
AF	476m W	Electricity Substation	1990	153601

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	14

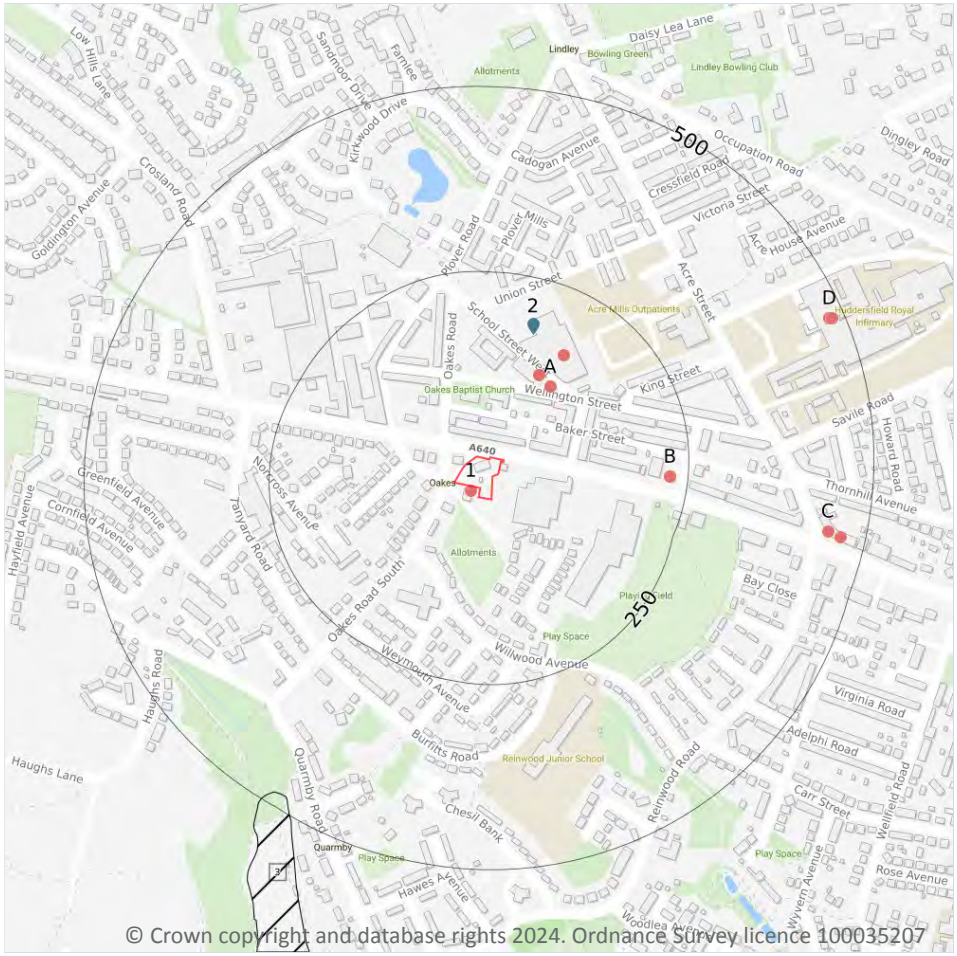
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 23 >**

ID	Location	Land Use	Date	Group ID
K	189m N	Garage	1962	48364
K	189m N	Garage	1995	48364
K	189m N	Garage	1996	48364
K	189m N	Garage	1993	48364
K	189m N	Garage	1982	48364
K	189m N	Garage	1962	48364
F	207m NW	Garage	1996	45708
F	252m W	Garage	1972	47250
F	253m W	Garage	1980	47250
U	329m E	Garage	1972	46881
U	329m E	Garage	1980	49960
U	329m E	Garage	1980	49960
U	329m E	Garage	1980	49960
U	329m E	Garage	1989	49960

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

Historical landfill (EA/NRW)

Licensed waste sites

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	1

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

Features are displayed on the Waste and landfill map on **page 33 >**

ID	Location	Details		
3	481m SW	Site Address: Haughs Road Quarry, Haughs Road, Quarmby, Huddersfield Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: Inert, Industrial, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	0

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

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

3.6 Licensed waste sites

Records within 500m	1

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

Features are displayed on the Waste and landfill map on **page 33 >**

ID	Location	Details		
2	184m N	Site Name: Joseph Sykes Site Address: Acre Mills, Acre Street, Lindley, Huddersfield, West Yorkshire, HD3 3EB Correspondence Address: -	Type of Site: In-House Storage Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 626004 EPR reference: EA/EPR/TP3995ZN Operator: Joseph Sykes Brothers Limited Waste Management licence No: 61031 Annual Tonnage: 1598	Issue Date: 21/12/1995 Effective Date: 21/12/1995 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Surrendered

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

3.7 Waste exemptions

Records within 500m **12**

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.

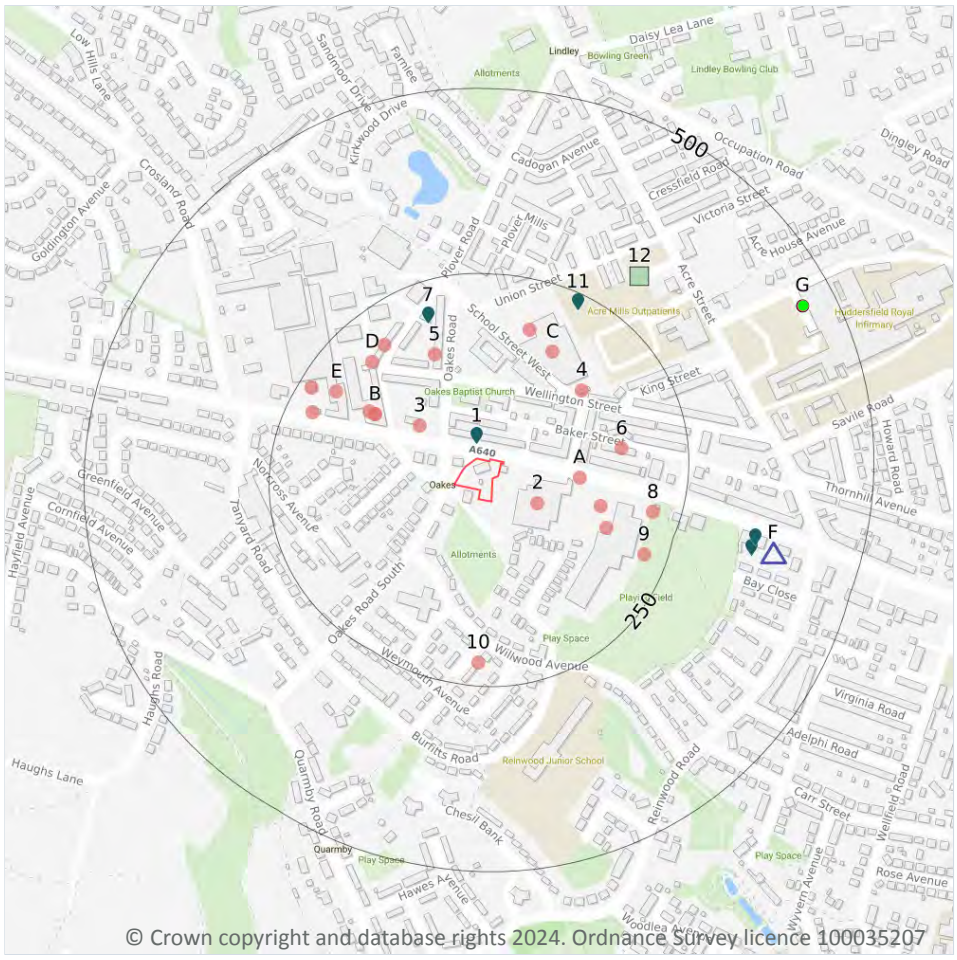
Features are displayed on the Waste and landfill map on **page 33 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	7m SW	1, Sparks Road, Oakes, Huddersfield, Hd3 4bx	WEX112976	Disposing of waste exemption	Not on a farm	Burning waste in the open
A	117m NE	Gate 2, Acre Mills, School Street, Lindley, Huddersfield, Hd3 3et	WEX278001	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
A	124m NE	Gate 2, Acre Mills, School Street, Lindley, Huddersfield, Hd3 3et	WEX136513	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
A	163m NE	Huddersfield Pharmacy Specials Gate2, Acre Mills, School Street Huddersfield West Yorkshire Hd3 3wb	EPR/XF0901TD/A001	Treating waste exemption	Non-agricultural waste only	Sorting and de-naturing of controlled drugs for disposal
B	226m E	144, New Hey Road, Huddersfield, Hd3 4bz	WEX368661	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	226m E	144, New Hey Road, Huddersfield, Hd3 4bz	WEX111499	Storing waste exemption	Not on a farm	Storage of waste in a secure place

ID	Location	Site	Reference	Category	Sub-Category	Description
C	448m E	80 New Hey Road Huddersfield West Yorkshire Hd3 4aj	EPR/PH0072NB/A001	Treating waste exemption	Non-agricultural waste only	Sorting and de-naturing of controlled drugs for disposal
C	466m E	80, New Hey Road, Huddersfield, Hd3 4aj	WEX027341	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
D	479m NE	Acre Street, Huddersfield, Hd3 3ea	WEX350418	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
D	479m NE	Acre Street, Huddersfield, Hd3 3ea	WEX290675	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
D	479m NE	Acre Street, Huddersfield, Hd3 3ea	WEX130946	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
D	483m NE	Huddersfield Royal Infirmary Acre Street Huddersfield West Yorkshire Hd3 3ea	EPR/FE5243ZU/A001	Treating waste exemption	Non-agricultural waste only	Sorting and de-naturing of controlled drugs for disposal

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

4 Current industrial land use



Site Outline

Search buffers in metres (m)

- Recent industrial land uses
- Current or recent petrol stations
- Licensed pollutant release (Part A(2)/B)
- Radioactive Substance Authorisations
- List 2 Dangerous Substances
- Pollution inventory radioactive waste

4.1 Recent industrial land uses

Records within 250m	21

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 37 >**

ID	Location	Company	Address	Activity	Category
2	62m SE	Oaskes Mill	Oakes Mill West, New Hey Road, Oakes, Huddersfield, West Yorkshire, HD3 4DD	Vehicle Cleaning Services	Personal, Consumer and Other Services
3	83m NW	Electricity Sub Station	West Yorkshire, HD3	Electrical Features	Infrastructure and Facilities
A	104m E	Electricity Sub Station	West Yorkshire, HD3	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
B	141m NW	Heritage Exchange	Heritage Exchange Wellington Mills, Plover Road, Oakes, Huddersfield, West Yorkshire, HD3 3HR	Business Parks and Industrial Estates	Industrial Features
B	141m NW	British Bacon Supplies	Wellington Mills 70, Plover Road, Huddersfield, West Yorkshire, HD3 3HR	Fish, Meat and Poultry Products	Foodstuffs
A	143m E	Electricity Sub Station	West Yorkshire, HD3	Electrical Features	Infrastructure and Facilities
4	144m NE	Electricity Sub Station	West Yorkshire, HD3	Electrical Features	Infrastructure and Facilities
B	149m NW	Woollen Spinners Huddersfiel d Ltd	Wellington Mills, Plover Road, Huddersfield, West Yorkshire, HD3 3HR	Textiles, Fabrics, Silk and Machinery	Industrial Products
5	152m N	Factory	West Yorkshire, HD3	Unspecified Works Or Factories	Industrial Features
A	159m E	Electricity Sub Station	West Yorkshire, HD3	Electrical Features	Infrastructure and Facilities
6	160m E	Upgraded It	27, Baker Street, Oakes, Huddersfield, West Yorkshire, HD3 3EX	Electrical Equipment Repair and Servicing	Repair and Servicing
C	163m NE	Acre Mills	Acre Mills, School Street West, Oakes, Huddersfield, West Yorkshire, HD3 3EB	Hospitals	Health Practitioners and Establishments
C	182m N	Gantry	West Yorkshire, HD3	Travelling Cranes and Gantries	Industrial Features
D	190m NW	Electricity Sub Station	West Yorkshire, HD3	Electrical Features	Infrastructure and Facilities
D	197m NW	John Cavendish Ltd	Wellington Mills, 64 Plover Road, Huddersfield, West Yorkshire, HD3 3HR	Textiles, Fabrics, Silk and Machinery	Industrial Products
E	201m NW	Medevent Ltd	Medevent Ltd, New Hey Road, Oakes, Huddersfield, West Yorkshire, HD3 4BU	Ambulance and Medical Transportation Services	Health Support Services
8	212m E	Gas Governor	West Yorkshire, HD3	Gas Features	Infrastructure and Facilities
E	214m W	Electricity Sub Station	West Yorkshire, HD3	Electrical Features	Infrastructure and Facilities
9	218m SE	Mast	West Yorkshire, HD3	Telecommunications Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
10	218m S	Electricity Sub Station	West Yorkshire, HD3	Electrical Features	Infrastructure and Facilities
E	233m NW	Salendine Auto Services	-, New Hey Road, Oakes, Huddersfield, West Yorkshire, HD3 4BU	Vehicle Repair, Testing and Servicing	Repair and Servicing

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	**1**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 37 >**

ID	Location	Company	Address	LPG	Status
F	383m E	ESSO	New Hey Road, Marsh, Huddersfield, West Yorkshire, HD3 4BU	No	Open

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	**0**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	**0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	5

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 37 >**

ID	Location	Address	Details	
1	30m N	Salendine Auto Services, New Hey Road, Oakes, Huddersfield, HD3 4BU	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
7	204m N	Paul Wood, Plover Garage, Plover Road, Lindley, Huddersfield, HD7 1AW	Process: Waste Oil Burner 0.4 MW; 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
11	238m NE	Joseph Sykes Brothers Ltd, Acre St, Lindley, Huddersfield, HD3 3EB	Process: Hot Dip Galvanizing Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
F	353m E	Westbourne Service Station, New Hey Rd, Marsh, Huddersfield, HD3 4DD	Process: Petrol Vapour Recovery Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
F	353m E	Reinwood Service Station, New Hey Road, Huddersfield, HD3 4BU	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	6

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

Features are displayed on the Current industrial land use map on **page 37 >**

ID	Location	Address	Details	
G	455m NE	Huddersfield Royal Infimary, Acre Street, Lindley, Huddersfield, HD3 3EA	Operator: Calderdale & Huddersfield NHS Foundation Trust Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: BW0690 Date of approval: 02/04/2004	Effective from: 02/04/2004 Last date of update: 01/01/2020 Status: Issued
G	455m NE	Huddersfield Royal Infimary, Acre Street, Lindley, Huddersfield, HD3 3EA	Operator: Calderdale & Huddersfield NHS Foundation Trust Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BW0703 Date of approval: 27/05/2004	Effective from: 28/05/2004 Last date of update: 01/01/2020 Status: Issued
G	455m NE	Calderdale And Huddersfield Nhs Trust (huddersfield Royal Infirmary), Huddersfield Royal Infirmary,acre Street, Huddersfield, West Yorkshire, HD3 3EA	Operator: Calderdale And Huddersfield Nhs Trust (huddersfield Royal Infirmary) Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: AB0740 Date of approval: 12/09/1995	Effective from: 12/09/1995 Last date of update: 01/01/2015 Status: Superseded By Variation
G	455m NE	Calderdale And Huddersfield Nhs Trust (huddersfield Royal Infirmary), Huddersfield Royal Infirmary, Acre Street, Huddersfield, West Yorkshire, HD3 3EA	Operator: Calderdale And Huddersfield Nhs Trust (huddersfield Royal Infirmary) Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AC0109 Date of approval: 31/03/1991	Effective from: 31/03/1991 Last date of update: 01/01/2015 Status: Superseded By Variation
G	455m NE	Calderdale And Huddersfield Nhs Trust (huddersfield Royal Infirmary), Huddersfield Royal Infirmary, Acre Street, Huddersfield, West Yorkshire, HD3 3EA	Operator: Calderdale And Huddersfield Nhs Trust (huddersfield Royal Infirmary) Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AC0109 Date of approval: 18/03/1994	Effective from: 18/03/1994 Last date of update: 01/01/2015 Status: Superseded By Variation

ID	Location	Address	Details	
G	455m NE	Calderdale And Huddersfield Nhs Trust (huddersfield Royal Infirmary), Huddersfield Royal Infirmary, Acre Street, Huddersfield, West Yorkshire, HD3 3EA	Operator: Calderdale And Huddersfield Nhs Trust (huddersfield Royal Infirmary) Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AC0109 Date of approval: 01/12/2003	Effective from: 01/01/2004 Last date of update: 01/01/2015 Status: Superseded By Variation

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

4.13 Licensed Discharges to controlled waters

Records within 500m	0

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

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	1

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.

Features are displayed on the Current industrial land use map on **page 37 >**

ID	Location	Name	Status	Receiving Water	Authorised Substances
12	311m NE	Joseph Sykes Bros Ltd, Acre Mills, Acre St, Huddersfield	Not Active	Unknown	Chromium, Copper, Lead, Zinc

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	0

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

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

4.21 Pollution inventory radioactive waste

Records within 500m	1

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.

Features are displayed on the Current industrial land use map on **page 37 >**

ID: G, Location: 455m NE, Permit: AC0109
Operator: CALDERDALE AND HUDDERSFIELD NHS TRUST (HUDDERSFIELD ROYAL INFIRMARY)
Address: HUDDERSFIELD ROYAL INFIRMARY ACRE STREET HUDDERSFIELD WEST YORKSHIRE HD3 3EA
Releases:

Route	Substance	Quantity released
Wastewater	Technetium 99m	215832MBq -

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

5 Hydrogeology - Superficial aquifer

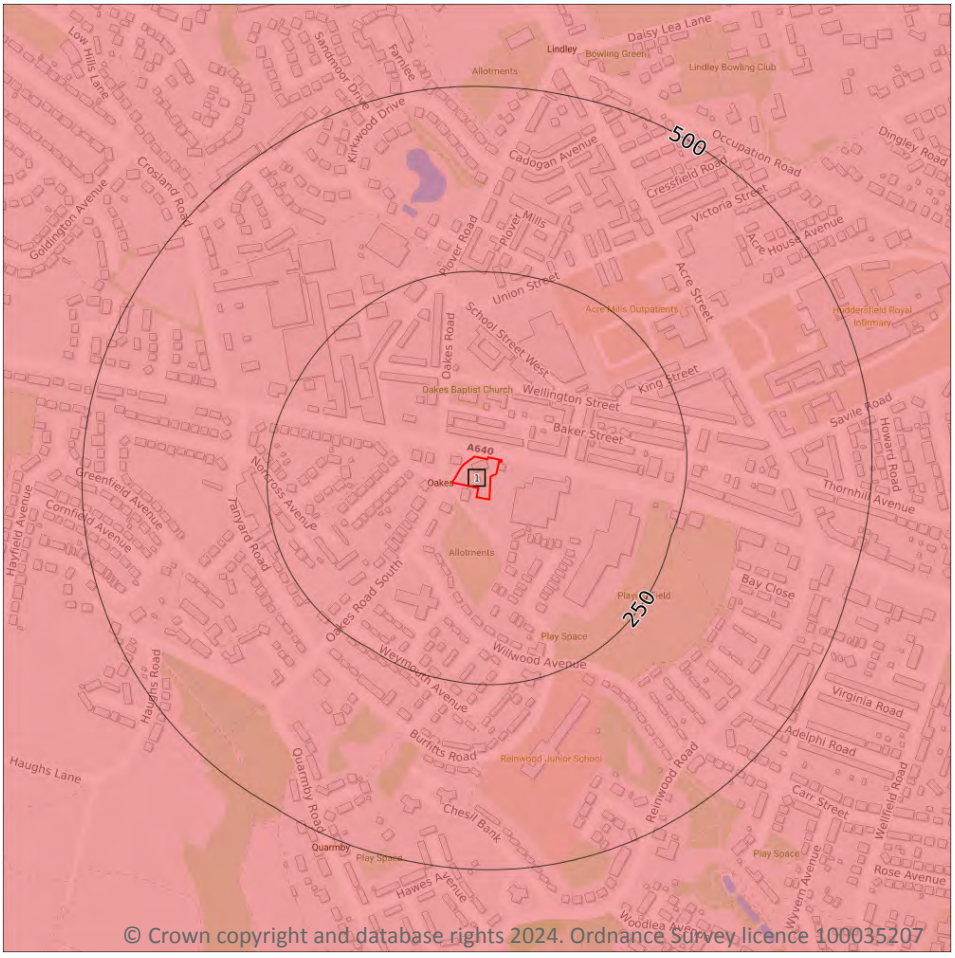
5.1 Superficial aquifer

Records within 500m	0

Aquifer status of groundwater held within superficial geology.

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

Bedrock aquifer



Site Outline

Search buffers in metres (m)

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

5.2 Bedrock aquifer

Records within 500m	1

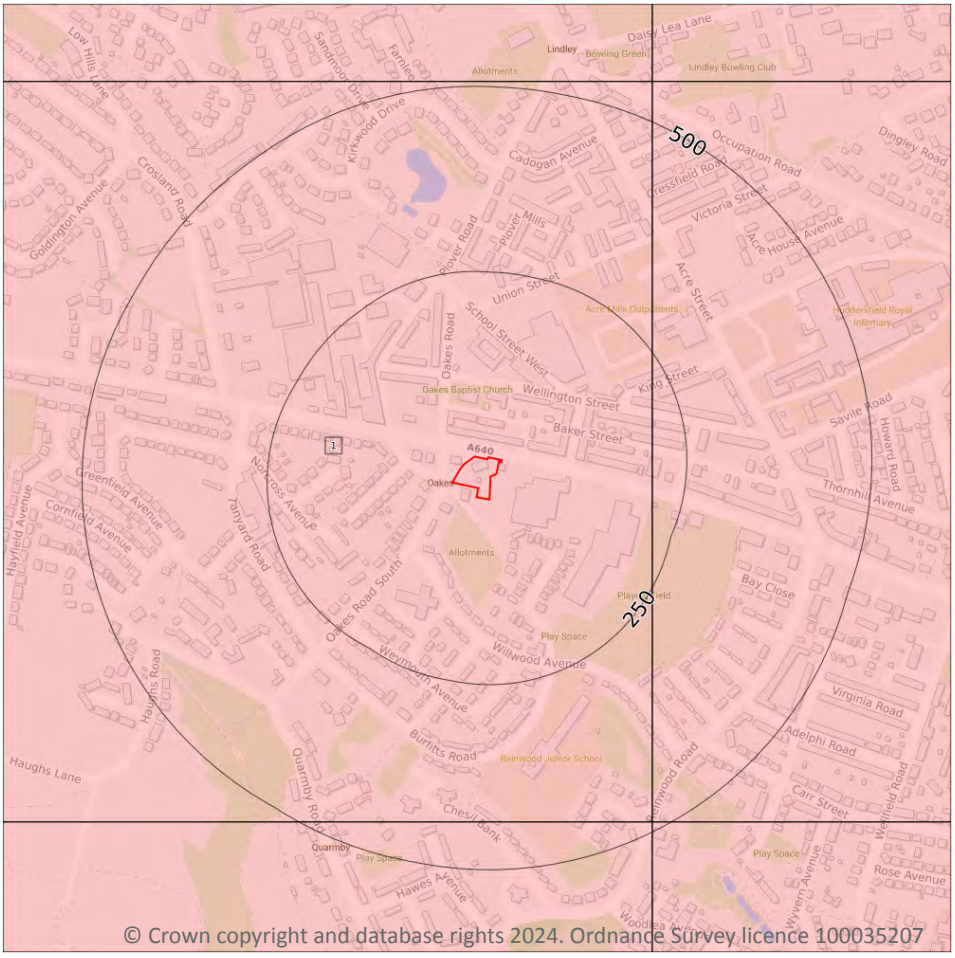
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 47 >**

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

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	1

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

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

Features are displayed on the Groundwater vulnerability map on **page 48 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	**On site**	**Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: >550mm/year**	**Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures**

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	**0**

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

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

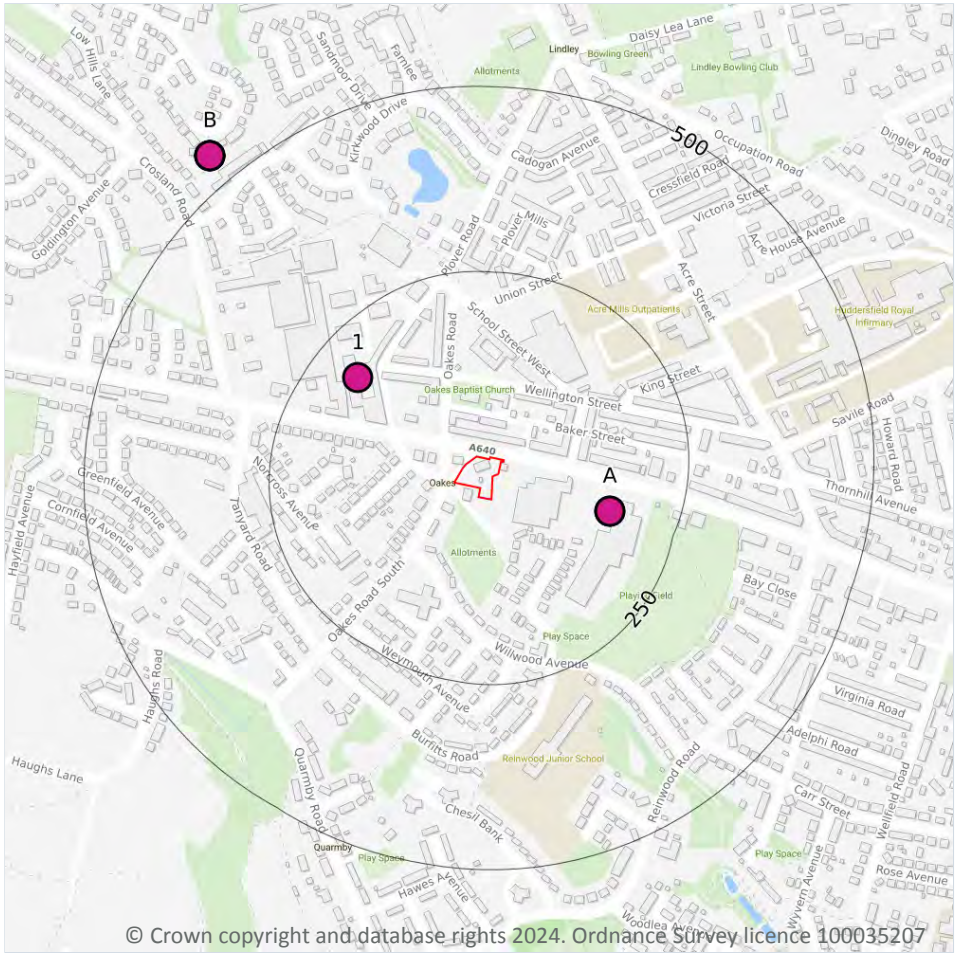
5.5 Groundwater vulnerability- local information

Records on site	**0**

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

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

Abstractions and Source Protection Zones



- Site Outline

Search buffers in metres (m)

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

5.6 Groundwater abstractions

Records within 2000m	14

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 50 >**

ID	Location	Details	
A	158m E	Status: Historical Licence No: 2/27/11/186 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE-MILLSTONE GRIT-OAKES-HUDDERSFIELD Data Type: Point Name: T E NEWSHOLME LIMITED Easting: 411940 Northing: 417420	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/06/2000 Expiry Date: 31/12/2009 Issue No: 1 Version Start Date: 10/06/2000 Version End Date: -
A	158m E	Status: Historical Licence No: 2/27/11/186 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - MILLSTONE GRIT- OAKES Data Type: Point Name: T E NEWSHOLME LTD Easting: 411940 Northing: 417420	Annual Volume (m^3): 35000 Max Daily Volume (m^3): 96 Original Application No: - Original Start Date: 10/06/2000 Expiry Date: 31/12/2009 Issue No: 1 Version Start Date: 10/06/2000 Version End Date: -
1	186m NW	Status: Historical Licence No: 2/27/10/120 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: JOHN GLADSTONE & COMPANY LIMITED Easting: 411600 Northing: 417600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 21/01/1997 Expiry Date: 31/12/2001 Issue No: 100 Version Start Date: 21/01/1997 Version End Date: -
B	541m NW	Status: Historical Licence No: 2/27/11/058 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: SPRINGCATCHMENT AREA Data Type: Point Name: JOSEPH SYKES BROTHERS Easting: 411400 Northing: 417900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 20/01/1966 Version End Date: -

ID	Location	Details	
B	541m NW	Status: Historical Licence No: 2/27/11/058 Details: Boiler Feed Direct Source: GROUNDWATERS Point: SPRINGCATCHMENT AREA Data Type: Point Name: JOSEPH SYKES BROTHERS Easting: 411400 Northing: 417900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 20/01/1966 Version End Date: -
B	541m NW	Status: Historical Licence No: 2/27/11/058 Details: Boiler Feed Direct Source: GROUNDWATERS Point: SPRING - LINDLEY Data Type: Point Name: CALDERDALE & HUDDERSFIELD NHS TRUST Easting: 411400 Northing: 417900	Annual Volume (m^3): 24094 Max Daily Volume (m^3): 65.5 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2008 Version End Date: -
B	541m NW	Status: Historical Licence No: 2/27/11/058 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: SPRING - LINDLEY Data Type: Point Name: CALDERDALE & HUDDERSFIELD NHS TRUST Easting: 411400 Northing: 417900	Annual Volume (m^3): 24094 Max Daily Volume (m^3): 65.5 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2008 Version End Date: -
-	1153m SW	Status: Active Licence No: NE/027/0011/018 Details: Process Water Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - WOODLAND MILL Data Type: Point Name: Wooltex UK Ltd Easting: 411097 Northing: 416494	Annual Volume (m^3): 164250 Max Daily Volume (m^3): 450 Original Application No: NPS/WR/031345 Original Start Date: 24/10/2017 Expiry Date: 31/03/2027 Issue No: 3 Version Start Date: 16/07/2019 Version End Date: -
-	1435m S	Status: Historical Licence No: 2/27/11/036(G) Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - MILNSBRIDGE Data Type: Point Name: YORKSHIRE WOOL DYEING CO LTD Easting: 411800 Northing: 416000	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 81.828 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/09/1998 Version End Date: -

ID	Location	Details	
-	1615m S	Status: Active Licence No: NE/027/0011/017 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - TNAYARD RD - MILNSBRIDGE Data Type: Point Name: MNS Textiles Ltd Easting: 412077 Northing: 415847	Annual Volume (m^3): 250000 Max Daily Volume (m^3): 1000 Original Application No: NPS/WR/015677 Original Start Date: 28/07/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 28/07/2014 Version End Date: -
-	1666m S	Status: Historical Licence No: 2/27/11/037 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: JOHN CROWTHER & SONS (MILNSBRIDGE) LTD Easting: 412100 Northing: 415800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 20/01/1966 Version End Date: -
-	1666m S	Status: Historical Licence No: 2/27/11/037 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - MILLSTONE GRIT - MILNSBRIDGE Data Type: Point Name: JOHN GLADSTONE (DYERS & FINISHERS) LTD Easting: 412100 Northing: 415800	Annual Volume (m^3): 454609 Max Daily Volume (m^3): 1296 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 11/10/2002 Version End Date: -
-	1722m W	Status: Historical Licence No: 2/27/11/117 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING Data Type: Point Name: SHEARD Easting: 410100 Northing: 416900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -

ID	Location	Details	
-	1722m W	Status: Historical Licence No: 2/27/11/117 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING - LONGWOOD Data Type: Point Name: SHEARD Easting: 410100 Northing: 416900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**12**

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 50 >**

ID	Location	Details	
-	1194m S	Status: Historical Licence No: 2/27/11/169 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: TRIBUTARY OF LONGWOOD BROOK Data Type: Point Name: EDDIE & BESSIE E FIRTH & JACQUELINE M & JOHN G WALKER Easting: 411400 Northing: 416300	Annual Volume (m^3): 20000 Max Daily Volume (m^3): 350 Original Application No: - Original Start Date: 26/01/1983 Expiry Date: - Issue No: 100 Version Start Date: 20/04/1990 Version End Date: -
-	1437m S	Status: Historical Licence No: 2/27/11/036(S) Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE Data Type: Point Name: YORKSHIRE WOOL DYEING CO LTD Easting: 411700 Northing: 416000	Annual Volume (m^3): 68190 Max Daily Volume (m^3): 273.669 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/09/1998 Version End Date: -

ID	Location	Details	
-	1437m S	Status: Historical Licence No: 2/27/11/036(S) Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE - MILNSBRIDGE Data Type: Point Name: YORKSHIRE WOOL DYEING CO LTD Easting: 411700 Northing: 416000	Annual Volume (m^3): 68190 Max Daily Volume (m^3): 273.669 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/09/1998 Version End Date: -
-	1442m SW	Status: Historical Licence No: 2/27/11/115 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: CLAY WOOD BROOK/OAKSCAR RESERVOIR Data Type: Point Name: PARKWOOD MILLS CO LTD Easting: 410400 Northing: 416900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 101 Version Start Date: 22/04/2002 Version End Date: -
-	1458m S	Status: Historical Licence No: 2/27/11/036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE - MILNSBRIDGE Data Type: Point Name: YORKSHIRE WOOL DYEING CO LTD Easting: 411717 Northing: 415978	Annual Volume (m^3): 68190 Max Daily Volume (m^3): 273.7 Original Application No: - Original Start Date: 25/06/2014 Expiry Date: - Issue No: 2 Version Start Date: 20/08/2014 Version End Date: -
-	1503m W	Status: Historical Licence No: 2/27/11/123 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: CLAY WOOD BROOK-PARKWOOD ROAD-LONGWOOD Data Type: Point Name: PARKWOOD MILLS CO LTD Easting: 410330 Northing: 416910	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/05/1966 Expiry Date: - Issue No: 102 Version Start Date: 30/08/2002 Version End Date: -

ID	Location	Details	
-	1568m S	Status: Historical Licence No: 2/27/11/144 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: HUDDERSFIELD CANAL Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 412100 Northing: 415900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 17/03/1980 Version End Date: -
-	1666m S	Status: Historical Licence No: 2/27/11/038 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: CATCHPIT Data Type: Point Name: JOHN CROWTHER & SONS (MILNSBRIDGE) LTD Easting: 412100 Northing: 415800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 20/01/1966 Version End Date: -
-	1760m SE	Status: Historical Licence No: 2/27/11/148 Details: General use relating to Secondary Category (Low Loss) Direct Source: SURFACE WATER Point: HUDDERSFIELD CANAL Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 412800 Northing: 416000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 08/10/1979 Version End Date: -
-	1785m S	Status: Historical Licence No: 2/27/11/038 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: CATCHPIT - MILNSBRIDGE Data Type: Point Name: JOHN GLADSTONE (DYERS & FINISHERS) LTD Easting: 412200 Northing: 415700	Annual Volume (m^3): 90922 Max Daily Volume (m^3): 300 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 103 Version Start Date: 05/06/2003 Version End Date: -

ID	Location	Details	
-	1850m W	Status: Historical Licence No: 2/27/11/123 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: CLAYWOOD BROOK Data Type: Point Name: PARKWOOD MILLS CO LTD Easting: 410000 Northing: 416800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 26/05/1966 Version End Date: -
-	1886m W	Status: Historical Licence No: 2/27/11/066 Details: Potable Water Supply - Direct Direct Source: SURFACE WATER Point: LONGWOOD UPPER AND LOWER RESERVOIRS Data Type: Line Name: YORKSHIRE WATER SERVICES LTD Easting: 409700 Northing: 417000	Annual Volume (m^3): 818297 Max Daily Volume (m^3): 2241.91 Original Application No: - Original Start Date: 27/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 27/01/1966 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m **1**

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 50 >**

ID	Location	Details	
-	1886m W	Status: Historical Licence No: 2/27/11/066 Details: Potable Water Supply - Direct Direct Source: SURFACE WATER Point: LONGWOOD UPPER AND LOWER RESERVOIRS Data Type: Line Name: YORKSHIRE WATER SERVICES LTD Easting: 409700 Northing: 417000	Annual Volume (m^3): 818297 Max Daily Volume (m^3): 2241.91 Original Application No: - Original Start Date: 27/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 27/01/1966 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	0

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

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

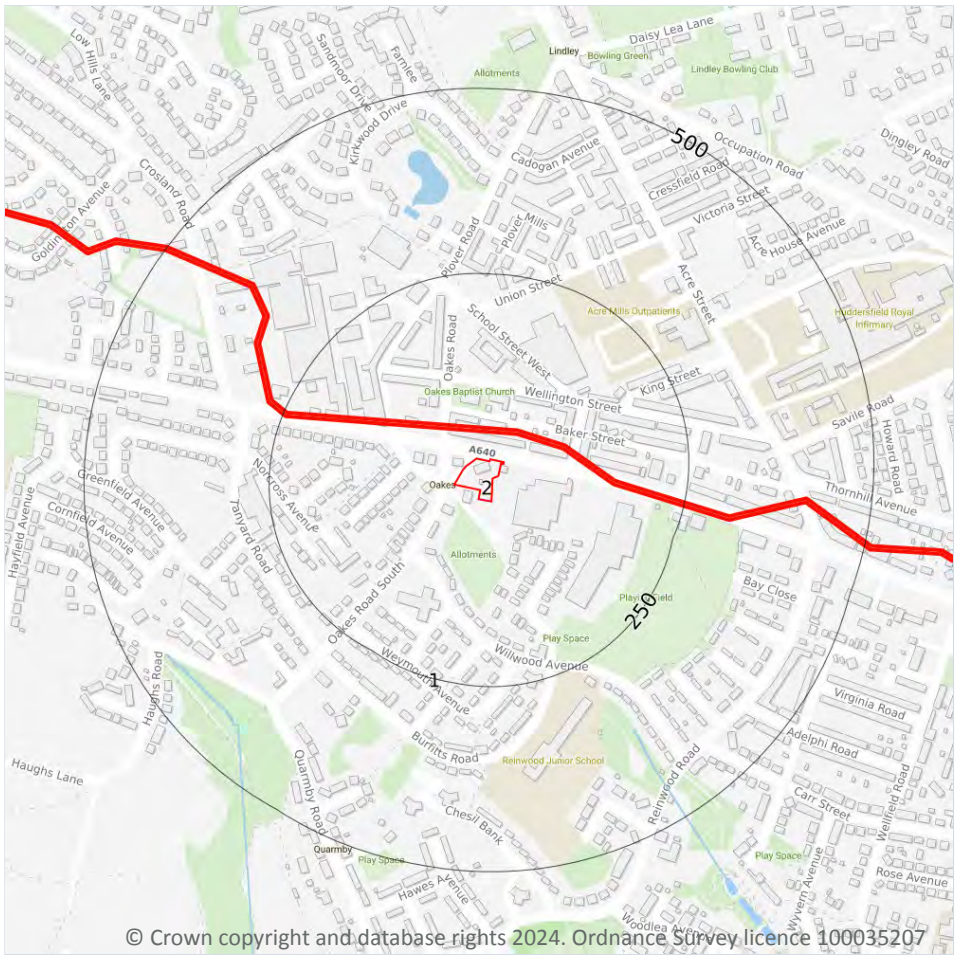
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	0

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

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	0

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

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1

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

Features are displayed on the Hydrology map on **page 59 >**

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

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

6.4 WFD Surface water bodies

Records identified	1

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

Features are displayed on the Hydrology map on **page 59 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1174m SW	River	Colne from Wessenden Brook to R Holme	GB104027063330 ↗	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site	1

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

Features are displayed on the Hydrology map on **page 59 >**

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

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

7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m	0

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

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

7.2 Historical Flood Events

Records within 250m	0

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

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

7.3 Flood Defences

Records within 250m	0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

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

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

7.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0

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

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

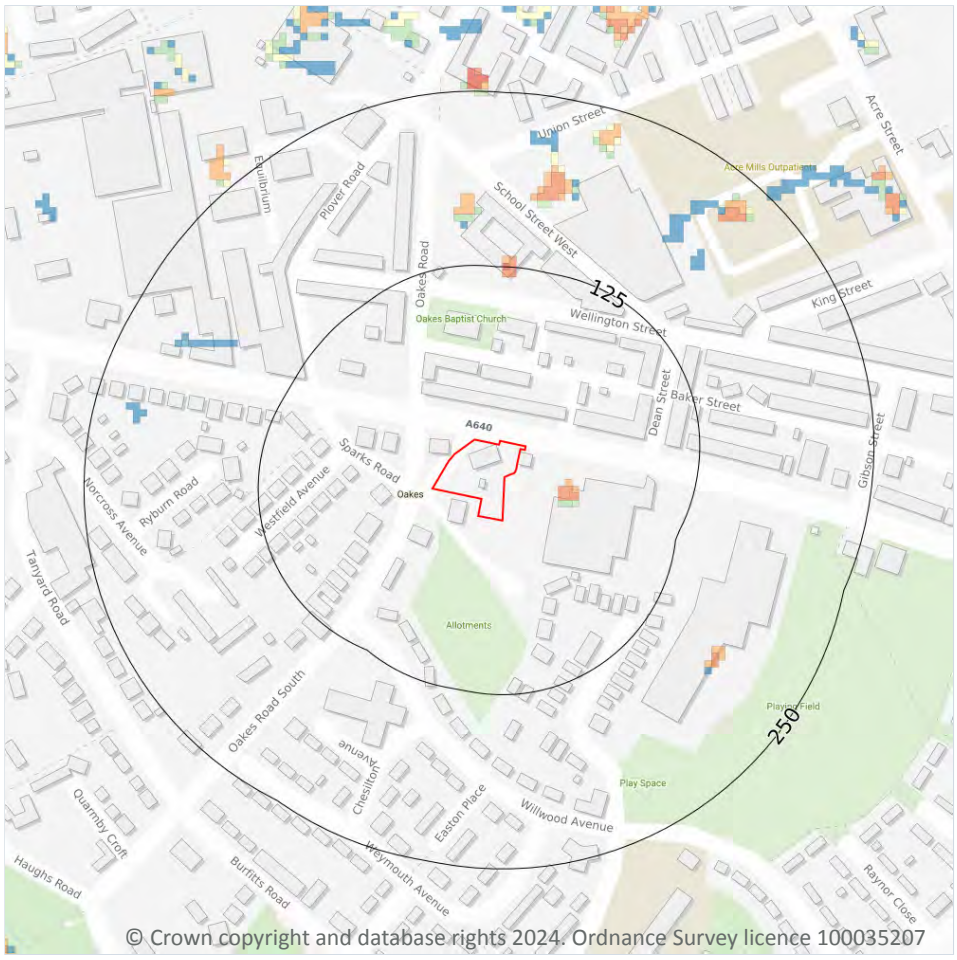
7.7 Flood Zone 3

Records within 50m	0

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

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

8 Surface water flooding



8.1 Surface water flooding

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

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

Features are displayed on the Surface water flooding map on **page 65 >**

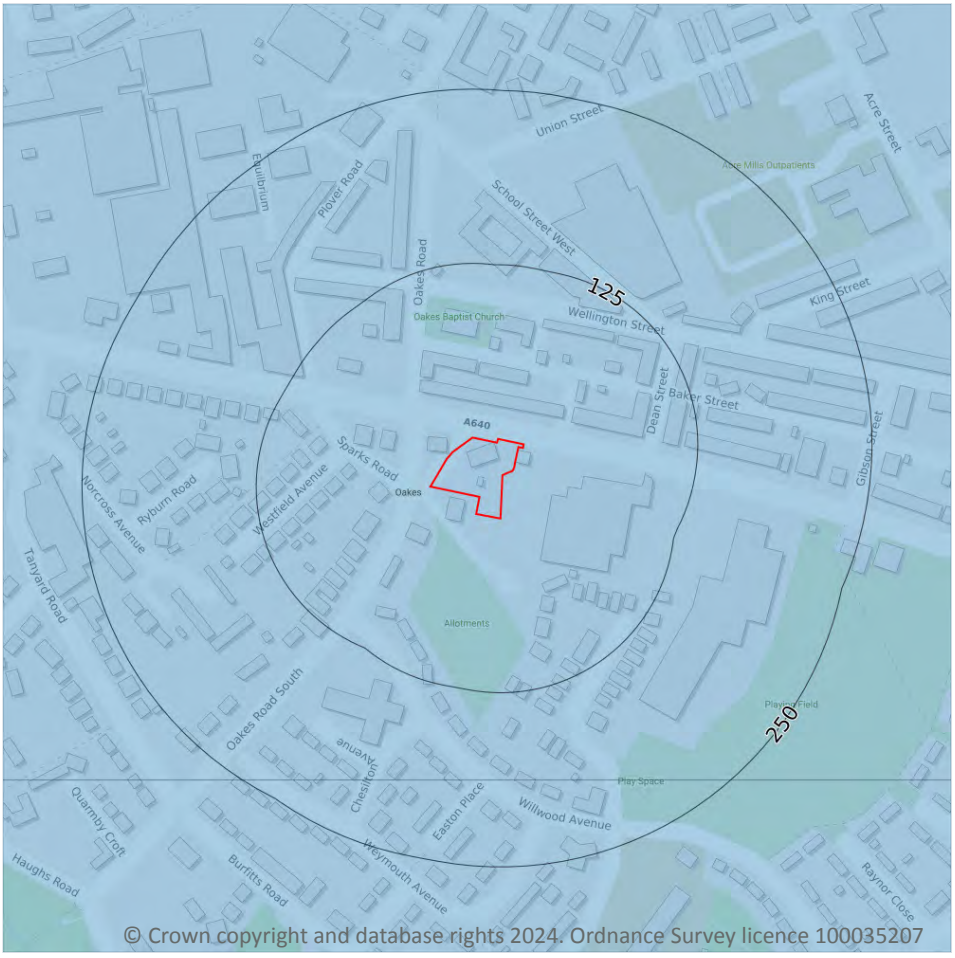
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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

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

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

9.1 Groundwater flooding

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

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

Features are displayed on the Groundwater flooding map on **page 67 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	1

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 68 >**

ID	Location	Name	Data source
2	1426m SE	Gledholt Woods	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m	3

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

Features are displayed on the Environmental designations map on **page 68 >**

ID	Location	Name	Woodland Type
-	1713m NE	Grimescar Wood	Ancient Replanted Woodland
-	1842m NE	Grimescar Wood	Ancient Replanted Woodland
-	1954m N	Gernhill Wood	Ancient Replanted Woodland

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	3

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

Features are displayed on the Environmental designations map on **page 68 >**

ID	Location	Name	Local Authority name
-	1313m W	South and West Yorkshire	Kirklees
3	1444m N	South and West Yorkshire	Kirklees
-	1902m NW	South and West Yorkshire	Calderdale

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.

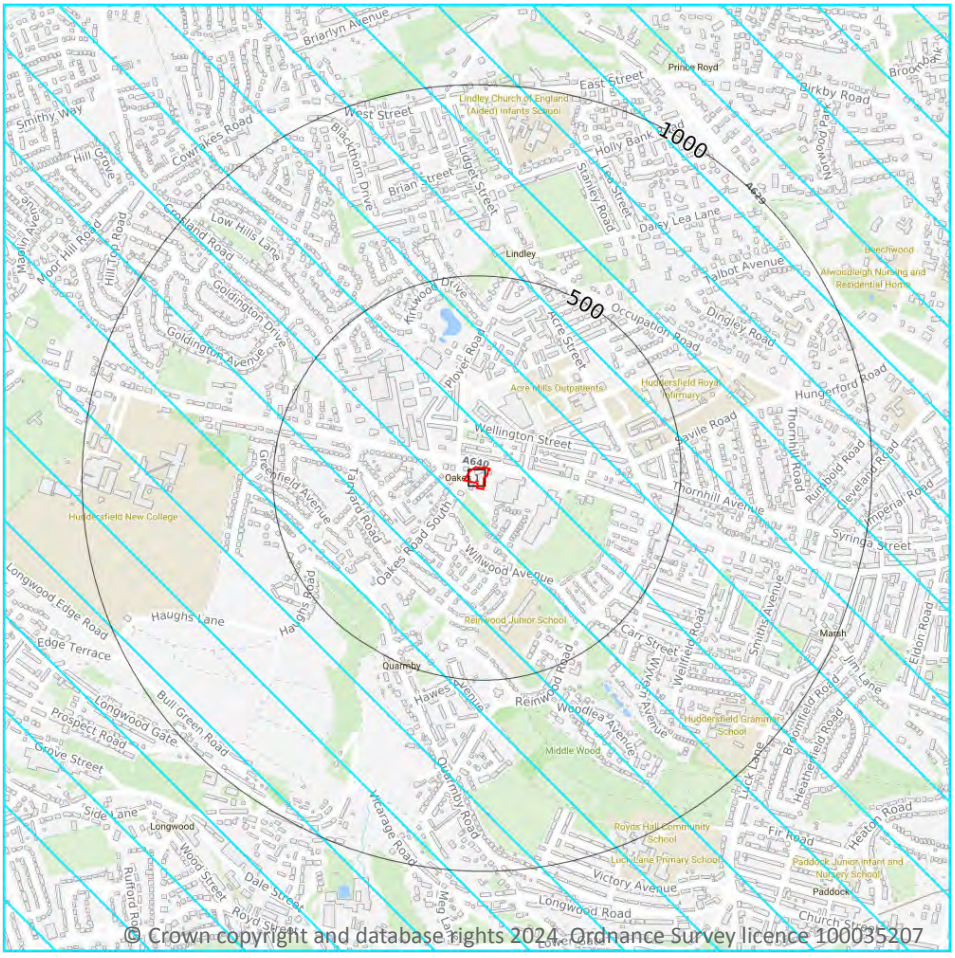
10.16 Nitrate Vulnerable Zones

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 73 >**

ID	Location	Type of developments requiring consultation
1	**On site**	**Infrastructure - Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Oil & gas exploration/extraction. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 4000m². Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	**0**

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

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

11 Visual and cultural designations

Site Outline

Search buffers in metres (m)

- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	10

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 75 >**

ID	Location	Name	Grade	Reference Number	Listed date
A	10m SW	7, Oakes Road South	II	1279025	29/09/1978
A	14m SW	5, Oakes Road South	II	1229569	29/09/1978
1	35m SW	Barn South Of Numbers 5 And 7	II	1229570	29/09/1978
B	84m N	Oakes Baptist Church	II	1279026	29/09/1978
B	93m N	2 Pairs Of Gates To Churchyard Of Oakes Baptist Church	II	1229571	29/09/1978

ID	Location	Name	Grade	Reference Number	Listed date
2	107m N	Walls To Oakes School Along School Street Oakes Road And Wellington Street Side Of Playground	II	1278962	29/09/1978
3	123m N	Lodge To Oakes School On Corner Of Wellington Street	II	1229576	29/09/1978
4	135m N	Oakes School	II	1229575	29/09/1978
5	180m NW	Front Tower At Wellington Mills	II	1229929	29/09/1978
6	194m NW	Tall Block Behind Front Tower At Wellington Mills	II	1229703	29/09/1978

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.

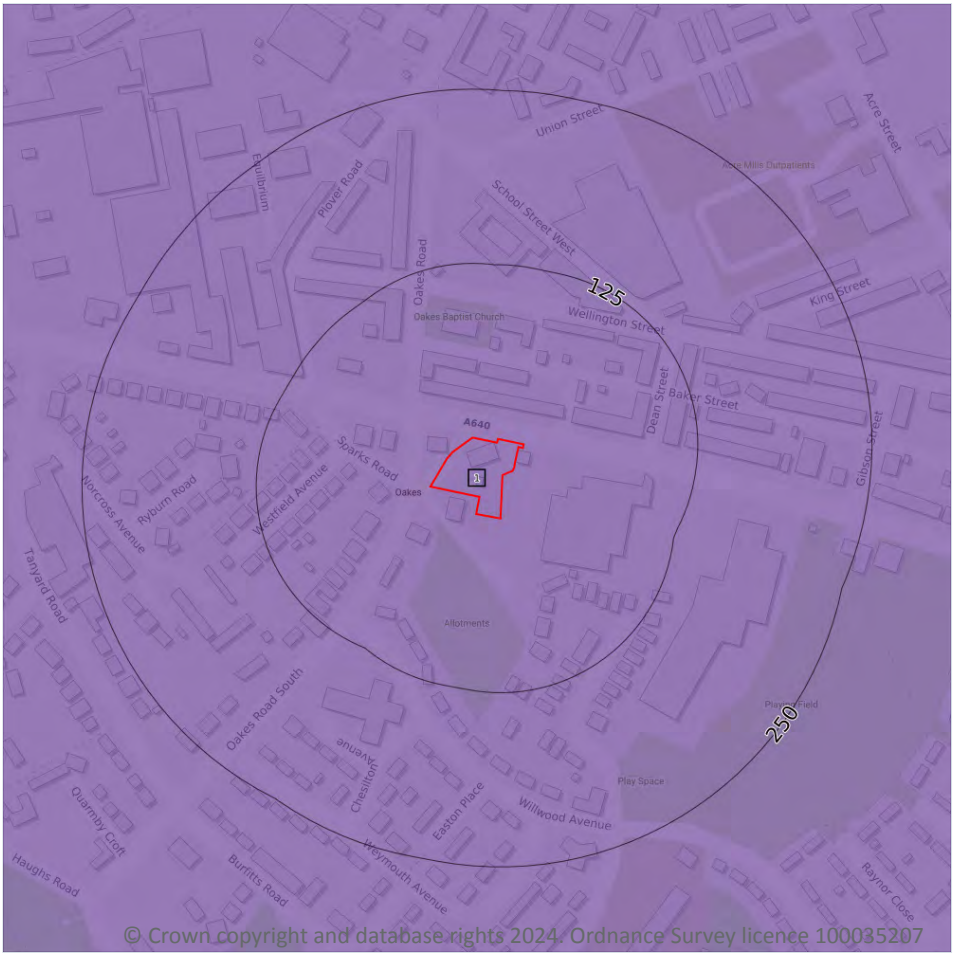
11.7 Registered Parks and Gardens

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	1

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

Features are displayed on the Agricultural designations map on **page 79 >**

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

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	0

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

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

12.3 Tree Felling Licences

Records within 250m	0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

13 Habitat designations

Site Outline

Search buffers in metres (m)

- Priority Habitat Inventory
- Open Mosaic Habitat
- Limestone Pavement Orders

Habitat Networks

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

13.1 Priority Habitat Inventory

Records within 250m	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	1

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

Features are displayed on the Habitat designations map on **page 81 >**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
1	135m NE	NLUD Ref: 471801696	Low	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability

14.1 10k Availability

Records within 500m	1

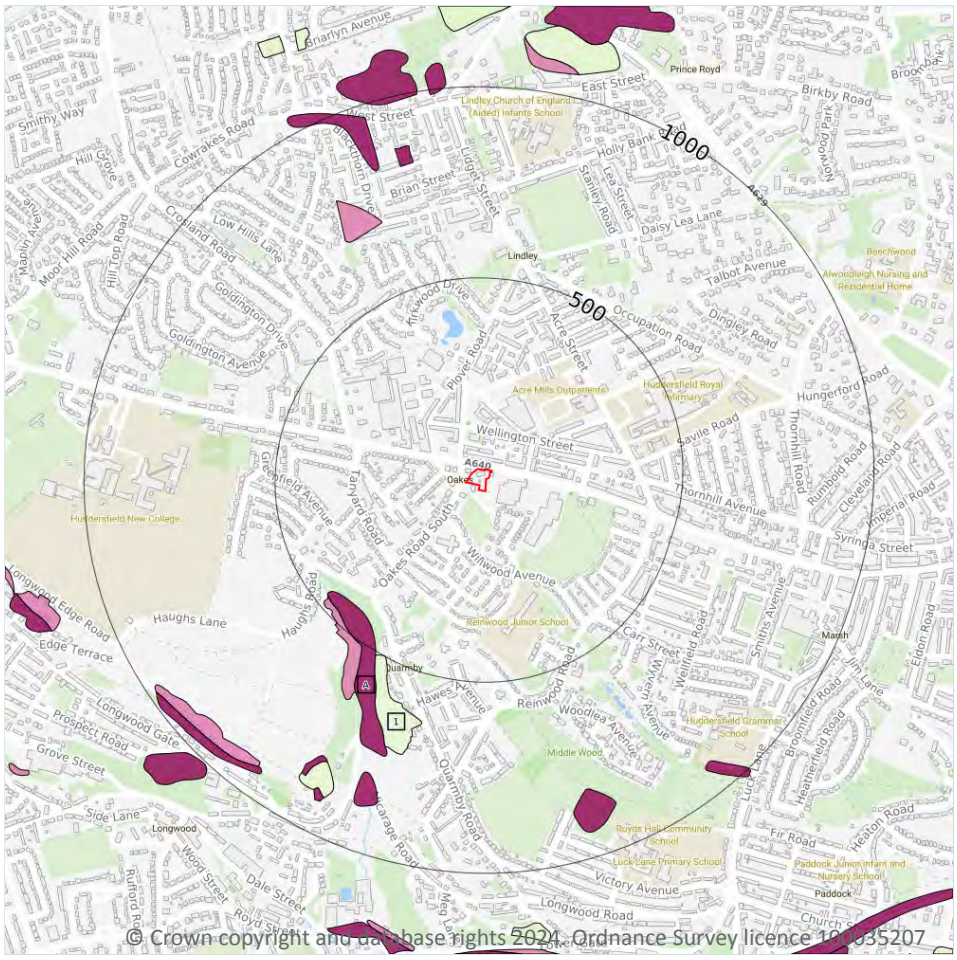
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 83 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**SE11NW**

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

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

14.2 Artificial and made ground (10k)

Records within 500m	3

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 84 >**

ID	Location	LEX Code	Description	Rock description
A	433m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	470m SW	WGR-VOID	Worked Ground (Undivided)	Void
1	500m SW	WMGR-ARTDP	Infilled Ground	Artificial Deposit

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.

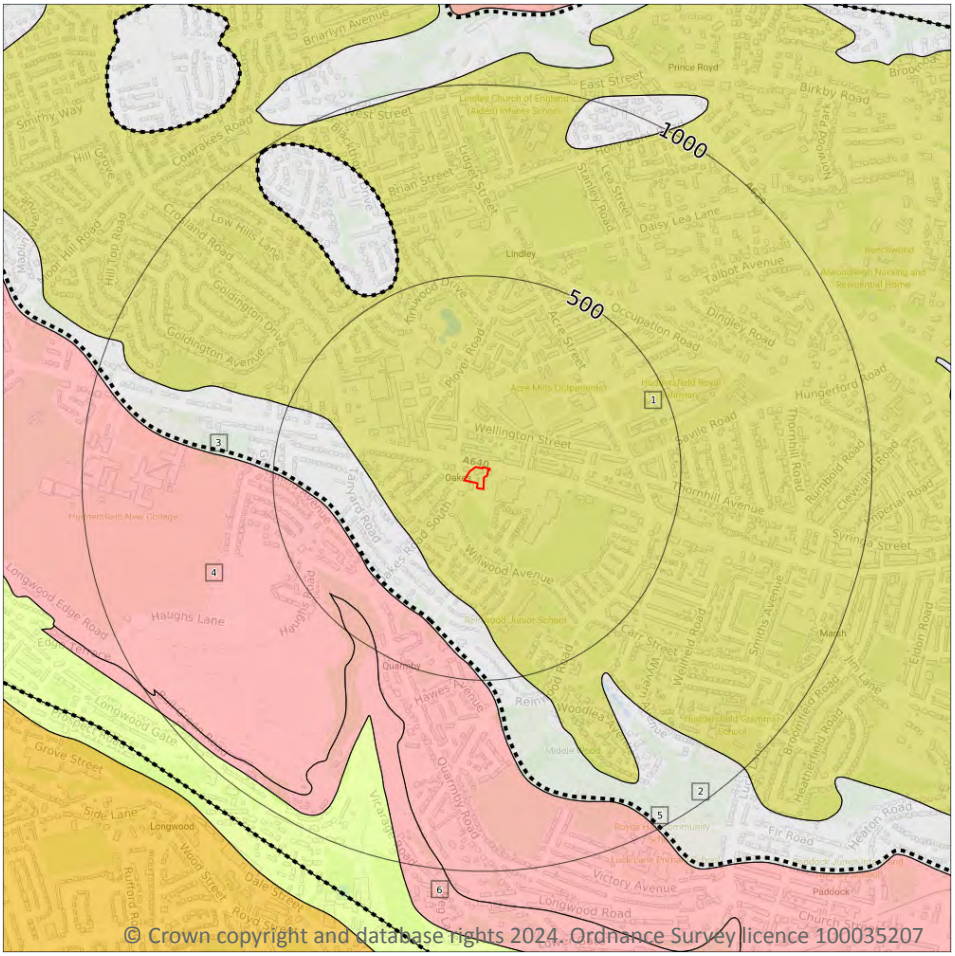
14.4 Landslip (10k)

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	4

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 86 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**SBF-SDST**	**Soft Bed Flags - Sandstone**	**Langsettian Sub-age**
2	202m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
4	335m SW	RR-SDST	Rough Rock - Sandstone	Yeadonian Sub-age

ID	Location	LEX Code	Description	Rock age
6	441m SW	RF-SDST	Rough Rock Flags - Sandstone	Yeadonian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	**2**

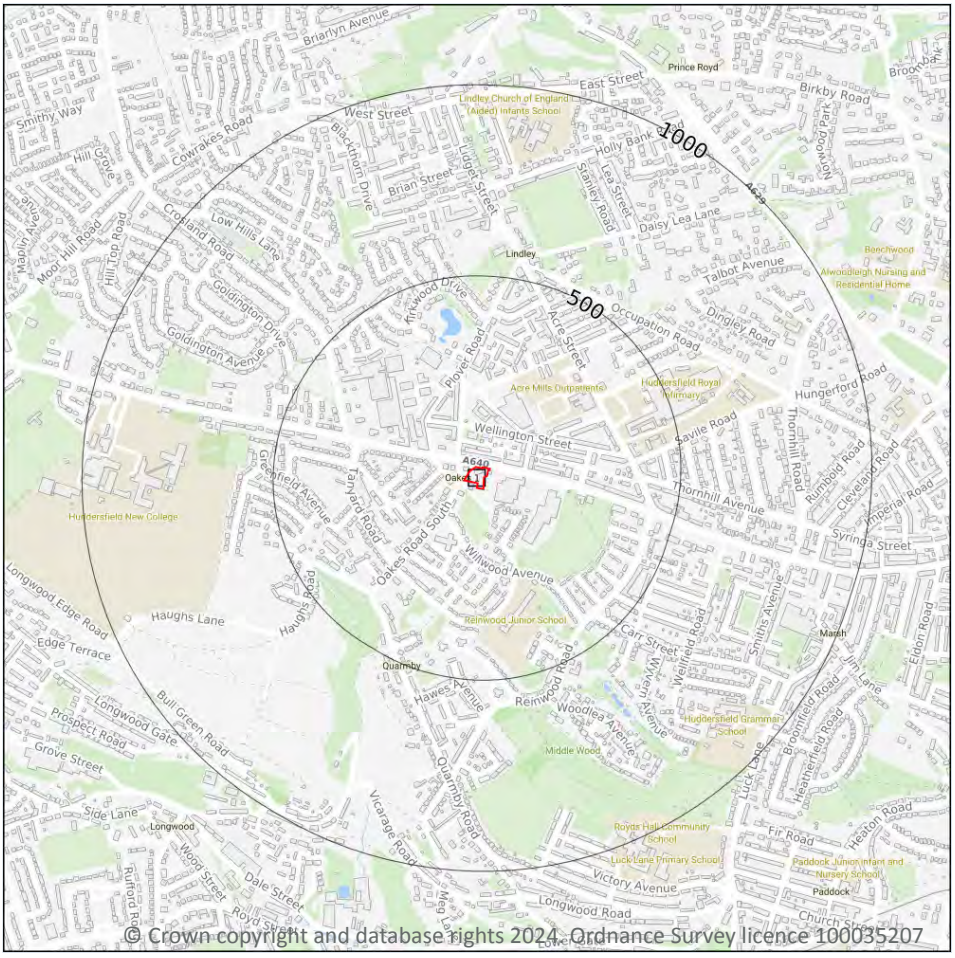
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 86 >**

ID	Location	Category	Description
3	328m SW	FOSSIL_HORIZON	Fossil horizon, marine band
5	367m S	FOSSIL_HORIZON	Fossil horizon, marine band

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

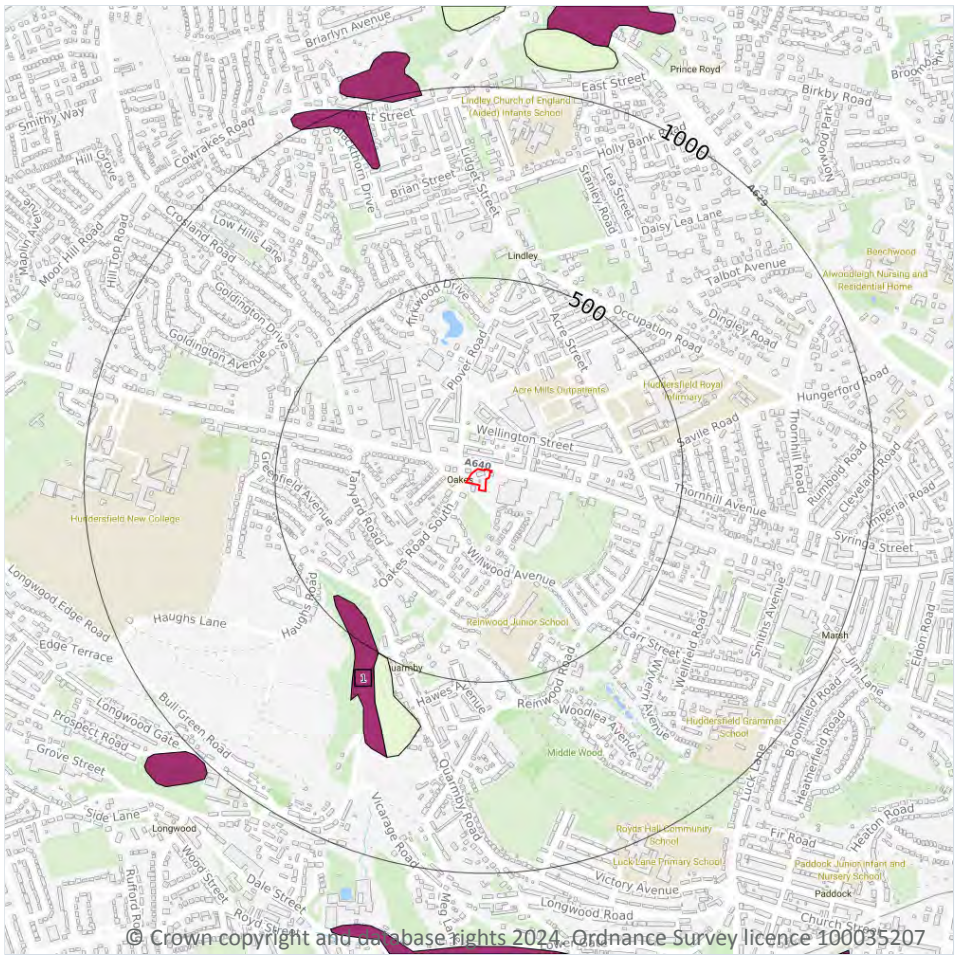
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

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

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW077_huddersfield_v4**

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

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

15.2 Artificial and made ground (50k)

Records within 500m	1

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 89 >**

ID	Location	LEX Code	Description	Rock description
1	433m SW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial

15.4 Superficial geology (50k)

Records within 500m	0

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.

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

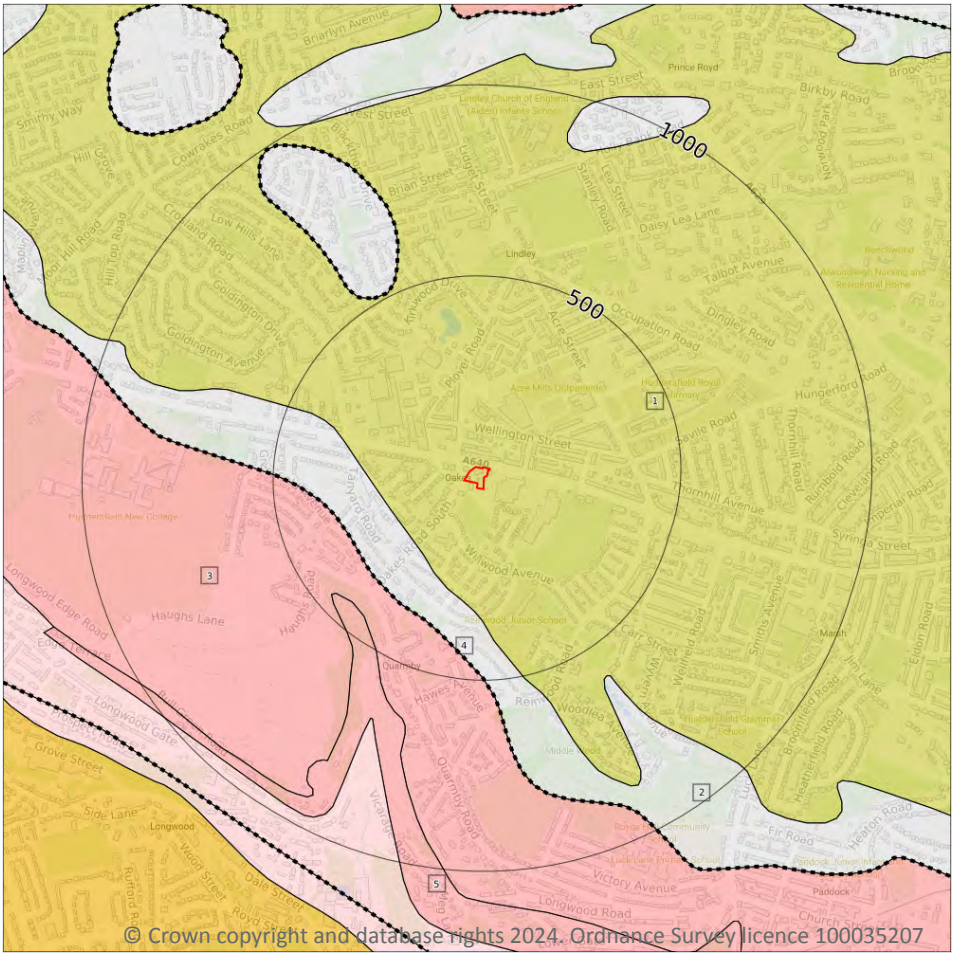
15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



15.8 Bedrock geology (50k)

Records within 500m	4

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 92 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**SBF-SDST**	**SOFT BED FLAGS - SANDSTONE**	**WESTPHALIAN**
2	201m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
3	332m SW	RR-SDST	ROUGH ROCK - SANDSTONE	NAMURIAN

ID	Location	LEX Code	Description	Rock age
5	433m SW	RF-SDST	ROUGH ROCK FLAGS - SANDSTONE	NAMURIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	**1**

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

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

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	**1**

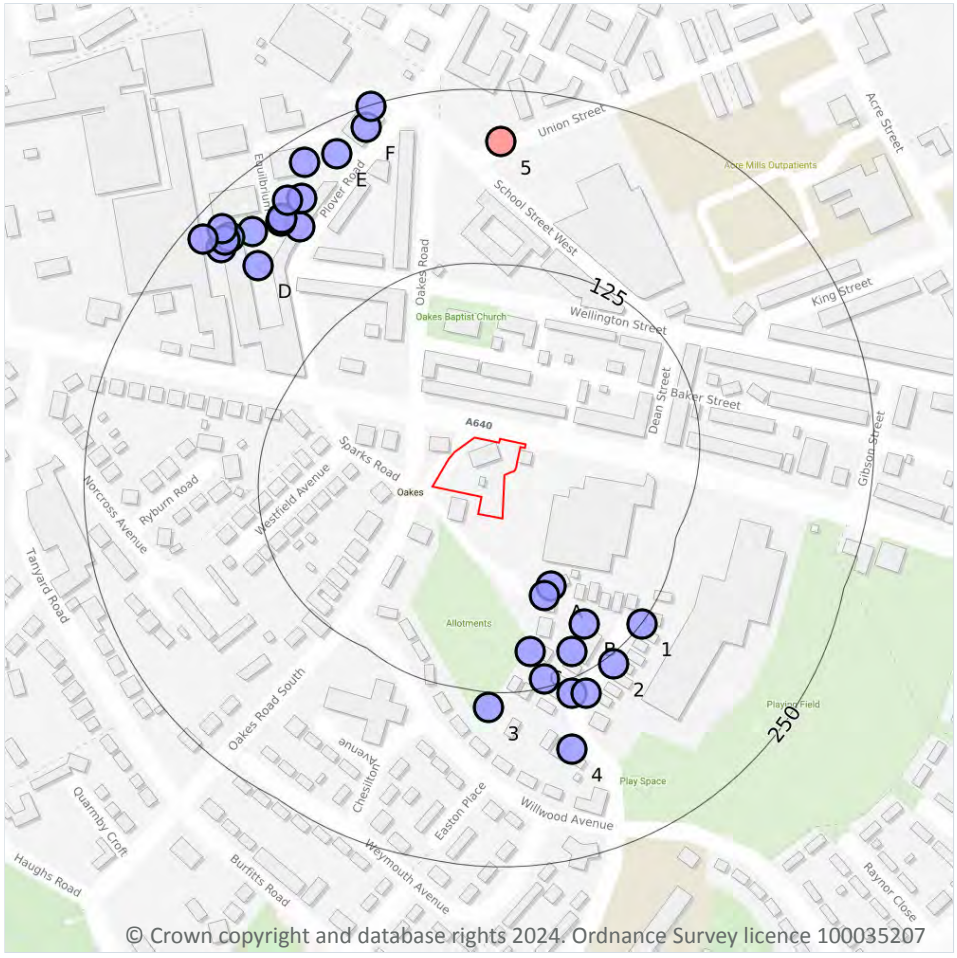
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 92 >**

ID	Location	Category	Description
4	332m SW	FOSSIL_HORIZON	Marine band

This data is sourced from the British Geological Survey.

16 Boreholes



16.1 BGS Boreholes

Records within 250m	29

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

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

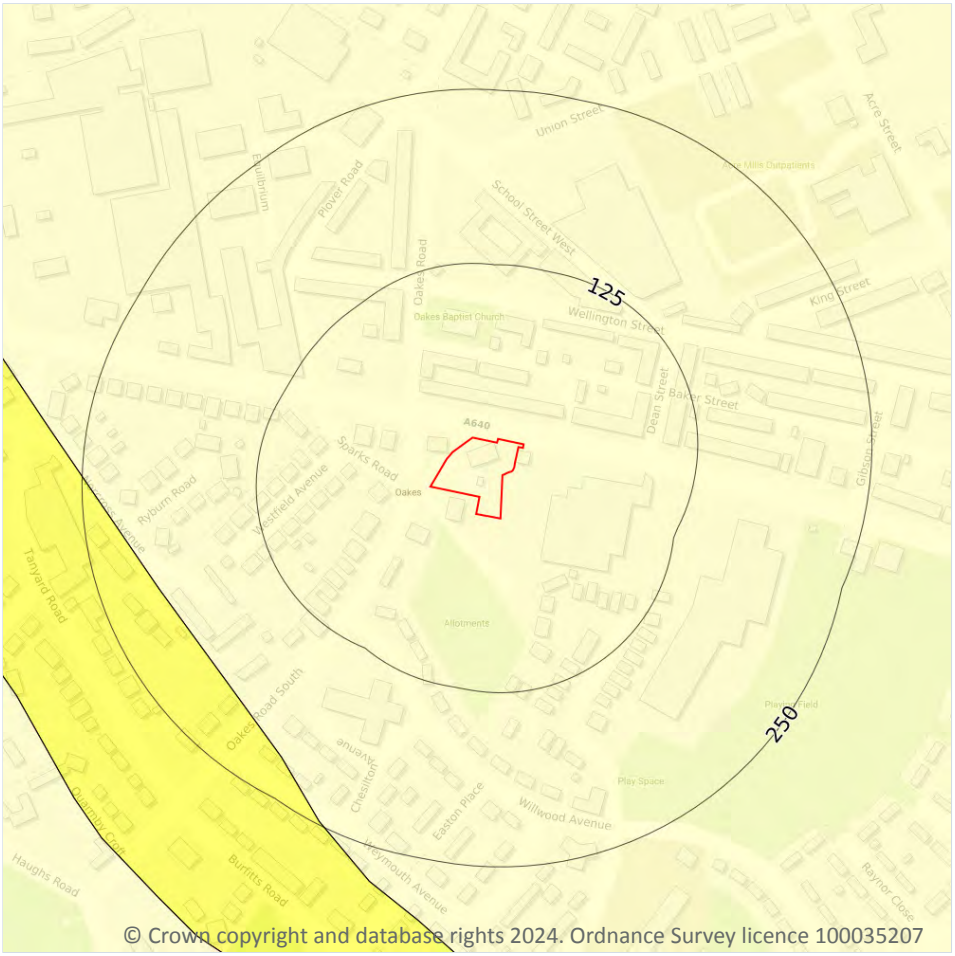
ID	Location	Grid reference	Name	Length	Confidential	Web link
A	60m SE	411815 417387	ACRE MILLS, HUDDERSFIELD 1	3.5	N	18496817 ↗
A	63m SE	411810 417380	WILLWOOD AVE HUDDERSFIELD TP 3	2.0	N	41222 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
B	96m SE	411839 417360	ACRE MILLS, HUDDERSFIELD 2	3.4	N	18496818 ↗
C	97m S	411800 417340	WILLWOOD AVE HUDDERSFIELD TP 5	2.0	N	41224 ↗
B	108m SE	411830 417340	WILLWOOD AVE HUDDERSFIELD TP 4	2.0	N	41223 ↗
C	119m S	411810 417320	WILLWOOD AVE HUDDERSFIELD TP 8	3.0	N	41227 ↗
1	125m SE	411880 417360	WILLWOOD AVE HUDDERSFIELD TP 2	2.0	N	41221 ↗
2	131m SE	411860 417331	ACRE MILLS, HUDDERSFIELD 3	3.2	N	18496819 ↗
C	135m S	411830 417310	WILLWOOD AVE HUDDERSFIELD TP 1	2.0	N	41220 ↗
3	136m S	411770 417300	WILLWOOD AVE HUDDERSFIELD TP 6	2.0	N	41225 ↗
C	139m SE	411840 417310	WILLWOOD AVE HUDDERSFIELD TP 9	2.5	N	41228 ↗
4	173m S	411830 417270	WILLWOOD AVE HUDDERSFIELD TP 7	2.0	N	41226 ↗
D	194m NW	411605 417617	WELLINGTON MILL PLOVER RD HUDDERSFIELD WS15	2.0	N	20377669 ↗
D	196m NW	411635 417645	WELLINGTON MILL PLOVER RD HUDDERSFIELD WS14	0.13	N	20377667 ↗
D	208m NW	411621 417649	WELLINGTON MILL PLOVER RD HUDDERSFIELD WS18	1.75	N	20377675 ↗
D	209m NW	411622 417651	WELLINGTON MILL PLOVER RD HUDDERSFIELD TP6	2.05	N	20377678 ↗
D	212m NW	411636 417665	WELLINGTON MILL PLOVER RD HUDDERSFIELD TP5	1.0	N	20377680 ↗
5	213m N	411779 417706	J WALKER & SON LINDLEY PAPER MILLS HUDDERSFIELD	142.67	N	41044 ↗
D	214m NW	411601 417641	WELLINGTON MILL PLOVER RD HUDDERSFIELD WS11	3.0	N	20377672 ↗
D	217m NW	411626 417664	WELLINGTON MILL PLOVER RD HUDDERSFIELD WS17	2.1	N	20377673 ↗
D	223m NW	411578 417630	WELLINGTON MILL PLOVER RD HUDDERSFIELD WS7	1.8	N	20377383 ↗
D	223m NW	411584 417637	WELLINGTON MILL PLOVER RD HUDDERSFIELD WS8	2.0	N	20377385 ↗
D	224m NW	411581 417635	WELLINGTON MILL PLOVER RD HUDDERSFIELD WS10	0.7	N	20377670 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
E	226m NW	411661 417697	WELLINGTON MILL PLOVER RD HUDDERSFIELD TP2	4.1	N	20377679 ↗
D	231m NW	411579 417643	WELLINGTON MILL PLOVER RD HUDDERSFIELD WS9	1.6	N	20377668 ↗
E	232m NW	411638 417691	WELLINGTON MILL PLOVER RD HUDDERSFIELD WS16	2.85	N	20377671 ↗
F	236m N	411682 417716	WELLINGTON MILL PLOVER RD HUDDERSFIELD TP3	4.0	N	20377681 ↗
D	237m NW	411565 417636	WELLINGTON MILL PLOVER RD HUDDERSFIELD WS6	0.5	N	20377666 ↗
F	249m N	411686 417731	WELLINGTON MILL PLOVER RD HUDDERSFIELD TP4	2.8	N	20377682 ↗

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m	1

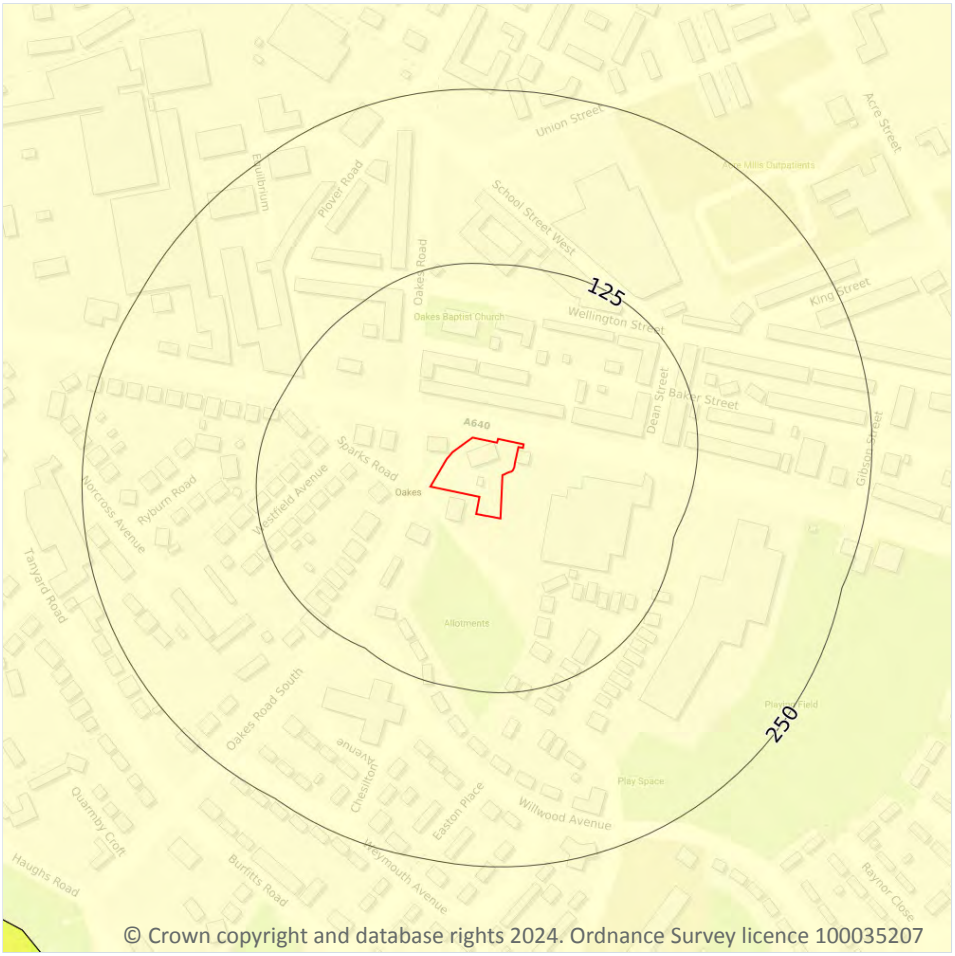
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 97 >**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

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

17.2 Running sands

Records within 50m	1

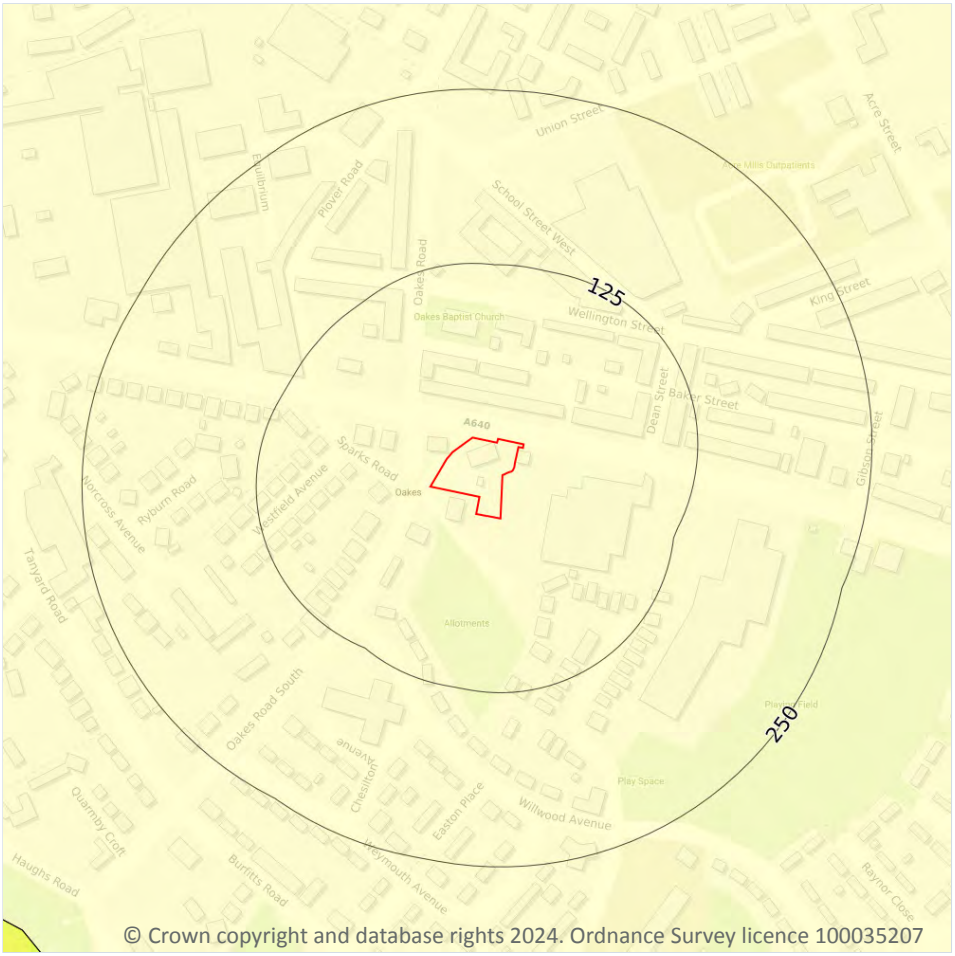
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

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

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	1

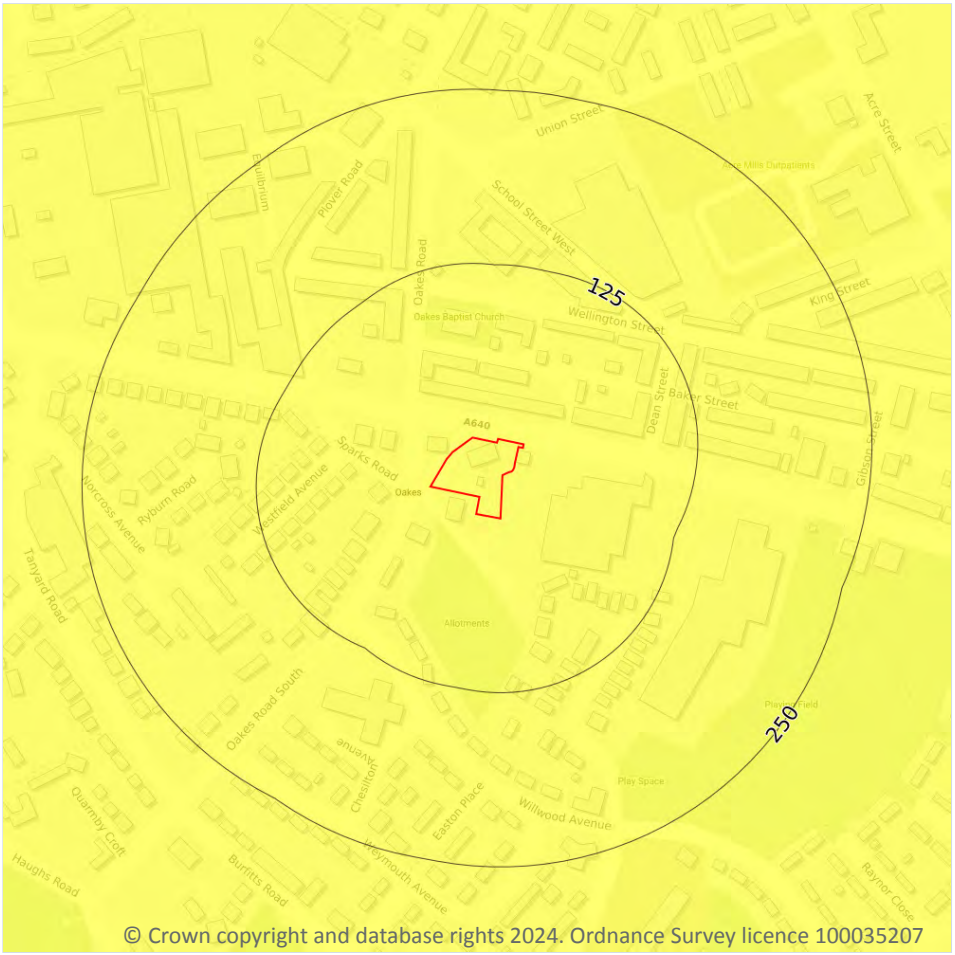
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 99 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	1

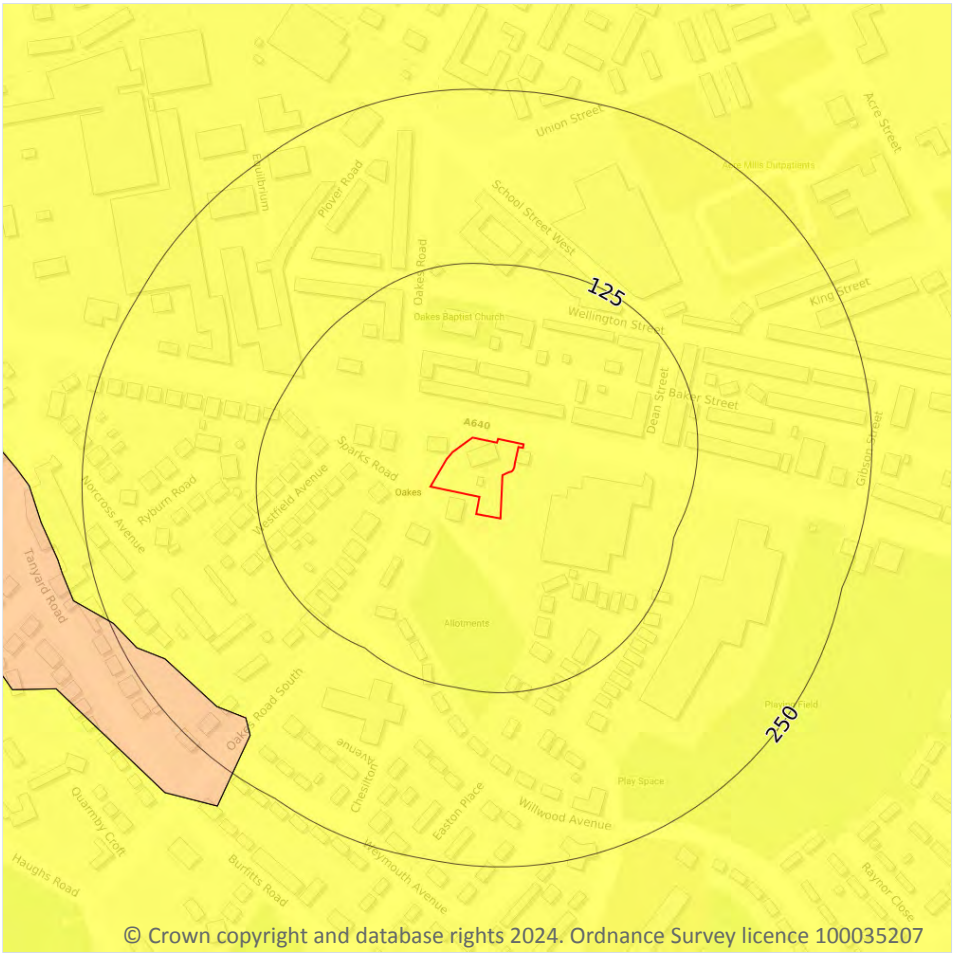
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 100 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m	1

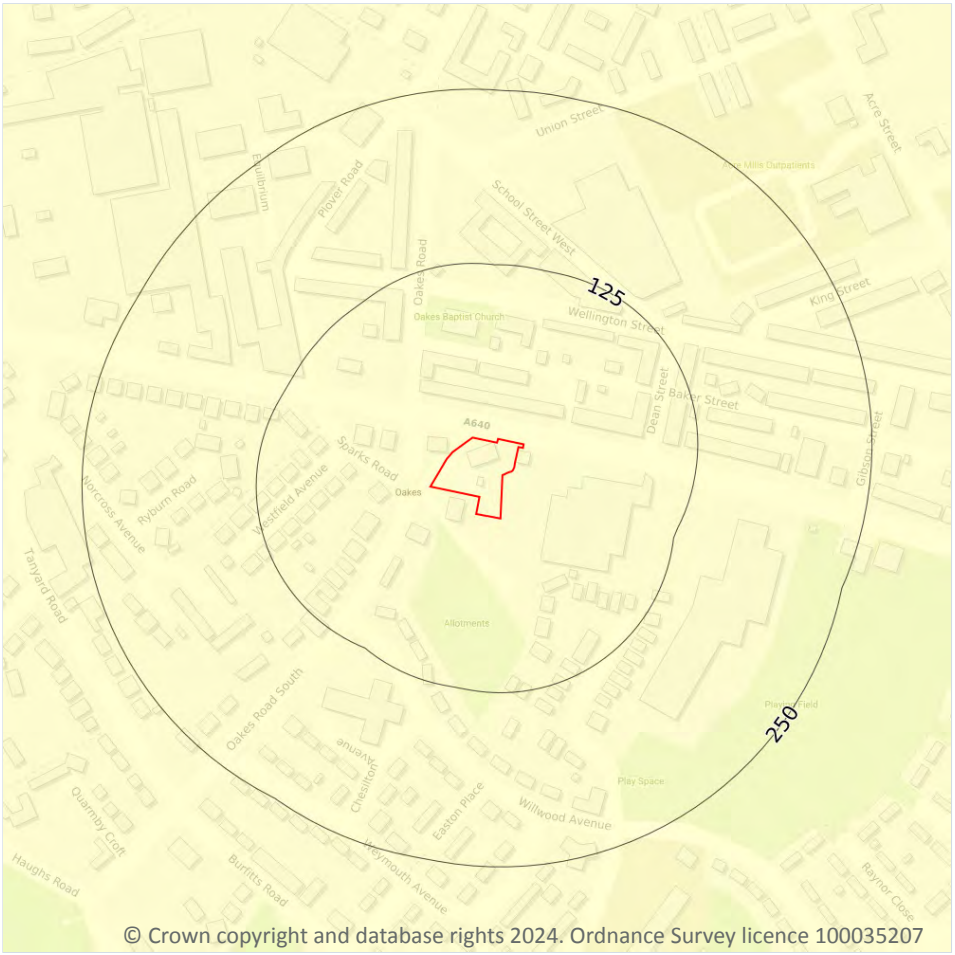
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 101 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m	1

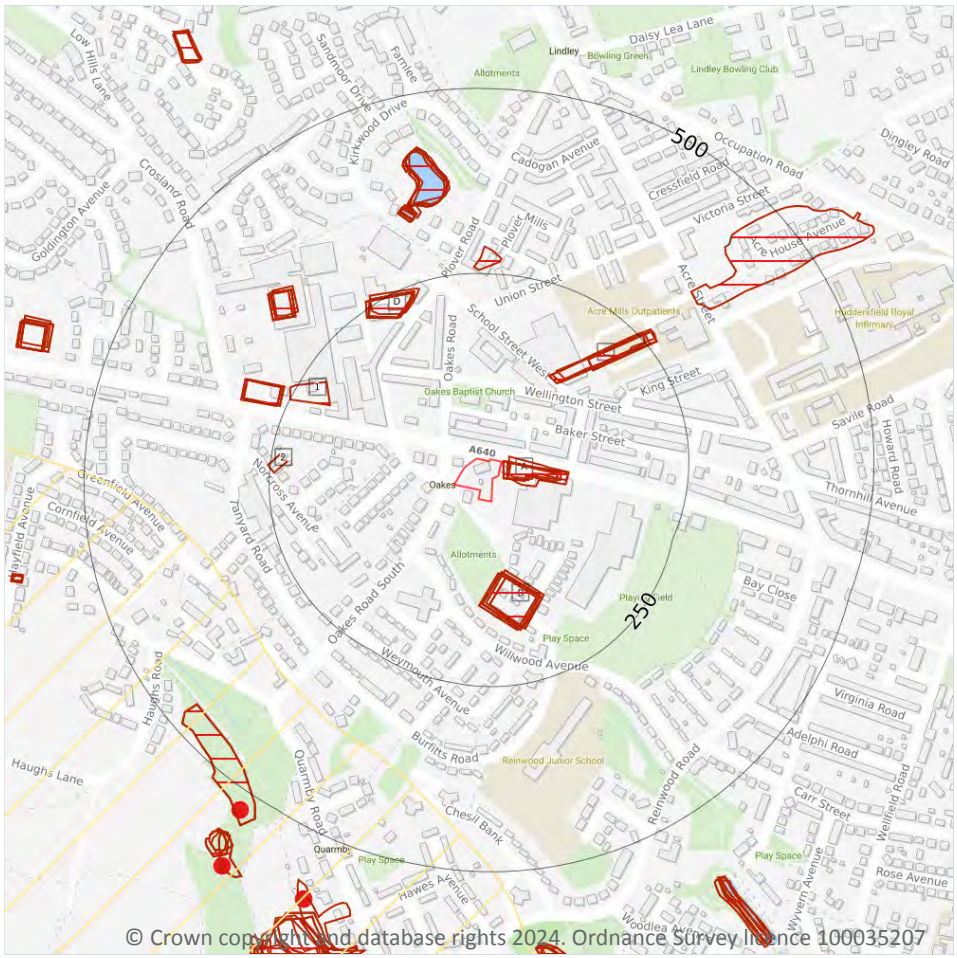
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 102 >**

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

This data is sourced from the British Geological Survey.

18 Mining and ground workings



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Site Outline

Search buffers in metres (m)

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

Non Coal Mining

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

18.1 BritPits

Records within 500m	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.

18.2 Surface ground workings

Records within 250m	29

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

Features are displayed on the Mining and ground workings map on **page 104 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Ponds**	**1948**	**1:10560**
A	**On site**	**Ponds**	**1905**	**1:10560**
A	5m NE	Ponds	1938	1:10560
A	7m NE	Ponds	1890	1:10560
A	10m E	Ponds	1966	1:10560
B	95m S	Mill Pond	1890	1:10560
B	96m S	Mill Pond	1938	1:10560
B	97m S	Mill Pond	1956	1:10560
B	98m S	Mill Pond	1948	1:10560
B	98m S	Mill Pond	1905	1:10560
B	103m S	Pond	1966	1:10560
B	103m S	Pond	1975	1:10000
C	128m NE	Ponds	1948	1:10560
C	128m NE	Ponds	1905	1:10560
C	132m NE	Ponds	1938	1:10560
C	140m NE	Mill Ponds	1890	1:10560
C	173m NE	Ponds	1985	1:10000
C	173m NE	Ponds	1966	1:10560
C	173m NE	Ponds	1975	1:10000
1	199m NW	Pond	1890	1:10560
D	217m NW	Pond	1938	1:10560
D	218m NW	Pond	1985	1:10000
D	218m NW	Pond	1966	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
D	218m NW	Pond	1975	1:10000
D	218m NW	Pond	1956	1:10560
D	218m NW	Pond	1948	1:10560
D	218m NW	Pond	1905	1:10560
D	220m NW	Mill Pond	1890	1:10560
2	228m W	Mill Pond	1905	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	1

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

Features are displayed on the Mining and ground workings map on **page 104 >**

ID	Location	Name	Commodity	Class	Likelihood
4	332m SW	Not available	Vein Mineral	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is

approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	**0**

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	**0**

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	**1**

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

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	**0**

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

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

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

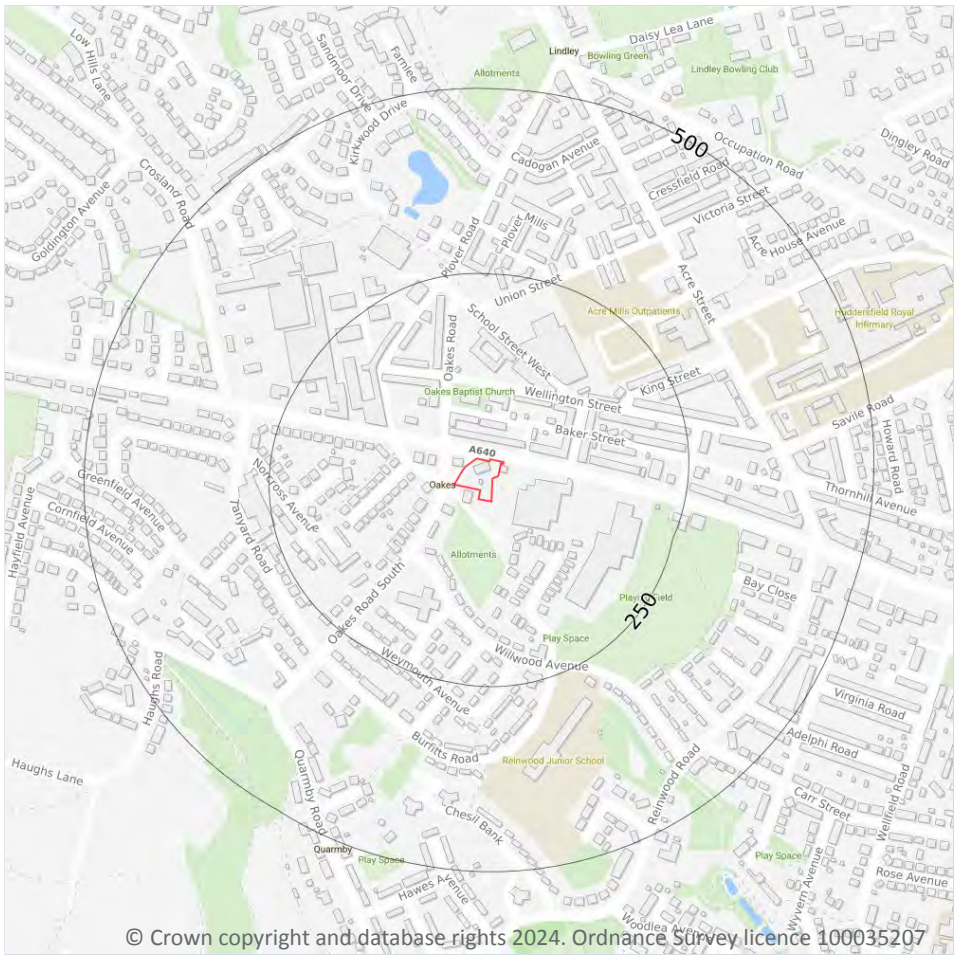
18.16 Clay mining

Records on site	0

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

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

19 Ground cavities and sinkholes



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Site Outline

Search buffers in metres (m)

- Natural cavities (Area)
- Natural cavities (Point)
- Mining cavities
- Reported recent incidents
- Historical incidents
- BGS karst database (Point)
- BGS karst database (Line)
- BGS karst database (Area)

19.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	2

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.

Features are displayed on the Ground cavities and sinkholes map on **page 110 >**

ID	Location	Mine Address	Mineral	Data source	Publisher
-	932m W	Lands Head, West Yorkshire	Flagstone	MINING IN THE ELLAND FLAGS:A FORGOTTEN YORKSHIRE INDUSTRY BGS REPORT VOL16 NO4	NATURAL ENVIRONMENT RESEARCH COUNCIL
-	932m W	Lands Head, West Yorkshire	Flagstone	MINING IN THE ELLAND FLAGS:A FORGOTTEN YORKSHIRE INDUSTRY BGS REPORT VOL16 NO4	NATURAL ENVIRONMENT RESEARCH COUNCIL

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m	0

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

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

This data is sourced from Groundsure.

19.5 National karst database

Records within 500m	0

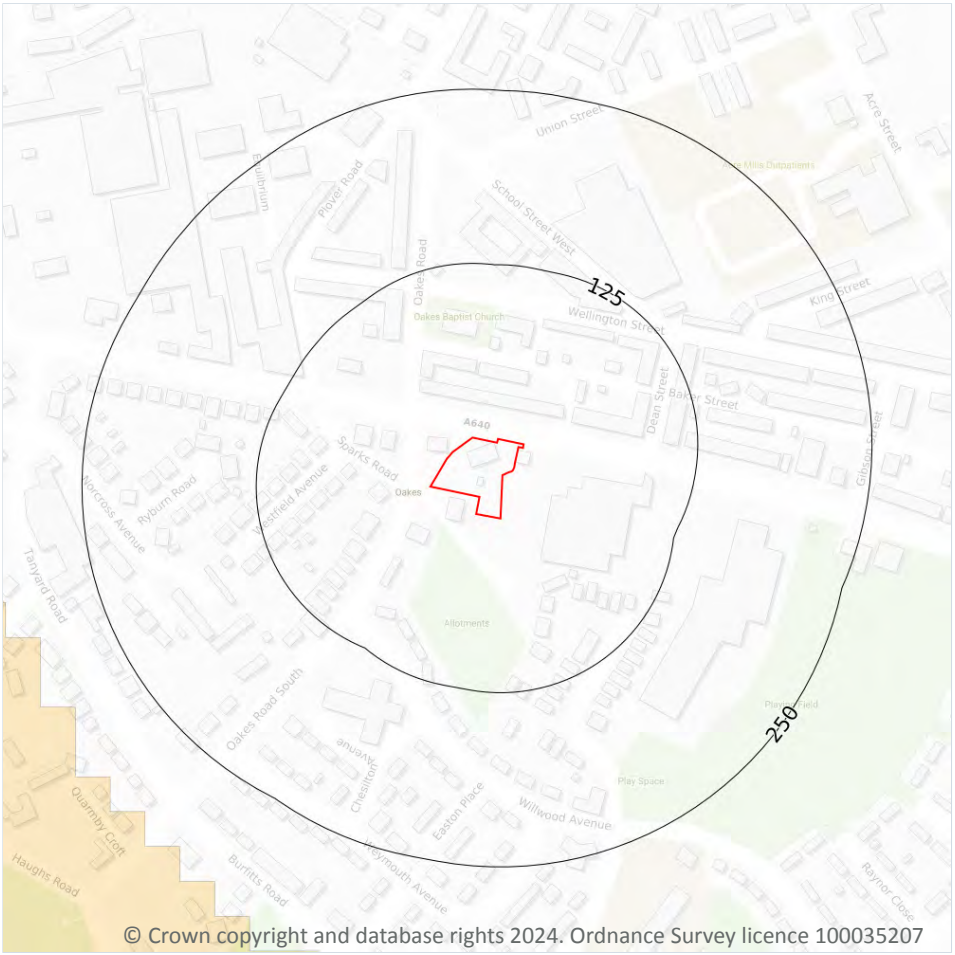
This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.

20 Radon



Site Outline

Search buffers in metres (m)

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

20.1 Radon

Records on site	1

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

Features are displayed on the Radon map on **page 113 >**

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

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

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m	2

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**25 - 35 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
7m N	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects

Site Outline

Search buffers in metres (m)

- Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

22.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	9

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

Features are displayed on the Railway infrastructure and projects map on **page 116 >**

Location	Land Use	Year of mapping	Mapping scale
91m E	Tramway Sidings	1933	2500
92m E	Tramway Sidings	1918	2500
124m NW	Railway Sidings	1956	10560
212m NW	Tramway Sidings	1918	2500
216m NW	Railway Sidings	1938	10560
217m NW	Tramway Sidings	1907	2500
218m NW	Tramway Sidings	1933	2500
231m NW	Railway Sidings	1948	10560
231m NW	Railway Sidings	1905	10560

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 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.

22.9 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.

22.10 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: www.groundsure.com/terms-and-conditions-april-2023/ ↗.

APPENDIX 3

The Coal Authority Report

The Coal Authority

CON29M
coal mining report

1 & 1A SPARKS ROAD, OAKES, HUDDERSFIELD, KIRKLEES, HD3 4BX

Known or potential coal mining risks

Further action

No further reports from the Coal Authority are required. Further information on any next steps can be found in our Professional opinion.

For more information on our reports please visit www.groundstability.com

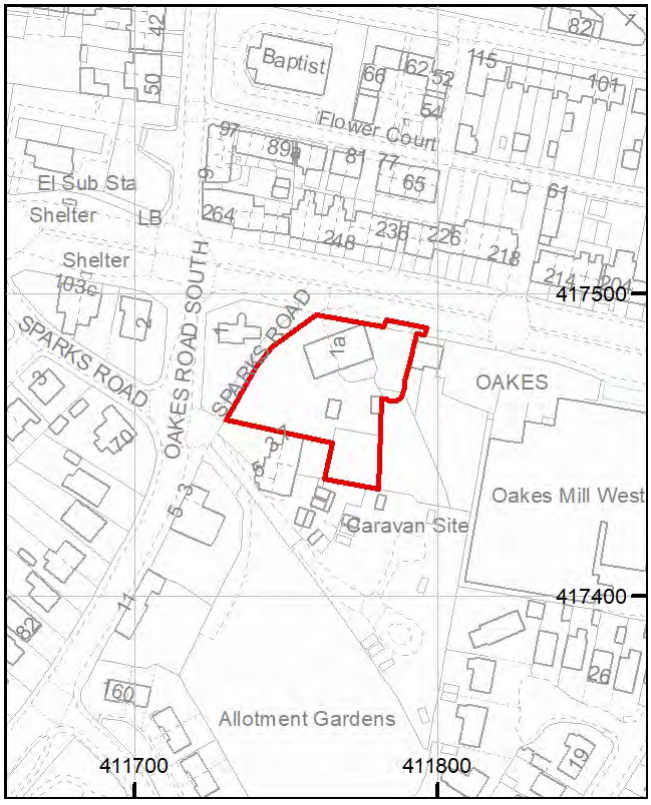
Professional opinion

According to the official mining information records held by the Coal Authority at the time of this search, evidence of, or the potential for, coal mining related features have been identified. It is unlikely that these features will impact on the stability of the enquiry boundary.

Enquiry boundary

Key

Approximate position of enquiry boundary shown



We can confirm that the location is **on the coalfield**

This report is prepared in accordance with the latest Law Society's Guidance Notes 2018, the User Guide 2018 and the Coal Authority's Terms and Conditions applicable at the time the report was produced.

Accessibility

If you would like this information in an alternative format, please contact our communications team on 0345 762 6848 or email communications@coal.gov.uk.

Professional opinion

Future development

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

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

If you are looking to develop, or undertake works, within a coal mining development high risk area your Local Authority planning department may require a Coal Mining Risk Assessment to be undertaken by a qualified mining geologist or engineer. Should you require any additional information then please contact the Coal Authority on 0345 762 6848 or email cmra@coal.gov.uk.

Detailed findings

Information provided by the Coal Authority in this report is compiled in response to the Law Society's CON29M Coal Mining enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL.

1 Past underground coal mining

The property is not within a surface area that could be affected by any past recorded underground coal mining.

2 Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3 Future underground coal mining

The property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant a licence to remove or work coal by underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

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

4 Mine entries

There are no recorded coal mine entries known to the Coal Authority within, or within 20 metres, of the boundary of the property.

5 Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

6 Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

7 Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

8 Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

9 Coal mining subsidence

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

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

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

10 Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11 Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Coal Authority, under its Emergency Surface Hazard Call Out procedures.

12 Withdrawal of support

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

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

13 Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14 Payments to owners of former copyhold land

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

Statutory cover

Coal mining subsidence

In the unlikely event of any coal mining related subsidence damage, the Coal Authority or the mine operator has a duty to take remedial action in respect of subsidence caused by the withdrawal of support from land or property in connection with lawful coal mining operations.

When the works are the responsibility of the Coal Authority, our dedicated public safety and subsidence team will manage the claim. The house or land owner ("the owner") is covered for these works under the terms of the Coal Mining Subsidence Act 1991 (as amended by the Coal Industry Act 1994). Please note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

If you believe your land or property is suffering from coal mining subsidence damage and you need more information on what to do next, please use the following link to our website which sets out what your rights are and what you need to consider before making a claim.
www.gov.uk/government/publications/coal-mining-subsidence-damage-notice-form

Coal mining hazards

Our public safety and subsidence team provide a 24 hour a day, 7 days a week hazard reporting service, to help protect the public from hazards caused by past coal workings, such as a mine shaft or shallow working collapse. To report any hazards please call 0800 288 4242. Further information can be found on our website: www.gov.uk/coalauthority.

Glossary

Key terms

adit - horizontal or sloped entrance to a mine

coal mining subsidence - ground movement caused by the removal of coal by underground mining

Coal Mining Subsidence Act 1991 - the Act setting out the duties of the Coal Authority to repair damage caused by coal mining subsidence

coal mining subsidence damage - damage to land, buildings or structures caused by the removal of coal by underground mining

coal seams - bed of coal of varying thickness

future opencast coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal from the surface

future underground coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal underground. Although it is unlikely, remaining coal reserves could create a possibility for future mining, which would be licensed by the Coal Authority

mine entries - collective name for shafts and adits

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

payments to owners of former copyhold land - historically, copyhold land gave rights to coal to the copyholder. Legislation was set up to allow others to work this coal, but they had to issue a notice and pay compensation if a copyholder came forward

shaft - vertical entry into a mine

site investigation - investigations of coal mining risks carried out with the Coal Authority's permission

stop notice - a delay to repairs because further coal mining subsidence damage may occur and it would be unwise to carry out permanent repairs

subsidence claim - a formal notice of subsidence damage to the Coal Authority since it was established on 31 October 1994

withdrawal of support - a historic notice informing landowners that the coal beneath their property was going to be worked

working facilities orders - a court order which gave permission, restricted or prevented coal mine workings