Botley West Solar Farm

Environmental Statement

Volume 3

Appendix 11.2: Botley Northern Site Area - Land Parcel 3, Desktop Study and Preliminary Risk Assessment

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Glossary

Term	Meaning
The Applicant	SolarFive Ltd
The Project	The Botley West Solar Farm (Botley West) Project
Conceptual Site Model	used to identify potential sources, pathways and receptors and how they interact (i.e. potential pollutant linkages) on site post development
Controlled Waters	Controlled waters mean territorial waters within the 3 nautical mile limit, coastal waters extending inland, inland waters and ground water
Desk Top Study	A desk study is the collation and review of information already available in the public domain and is carried out at an early stage of site appraisal and forms the basis of the preliminary risk assessment
Pathway	How the contaminant may be expected to move/migrate to a receptor
Preliminary Risk Assessment	Report that presents a summary of readily available information on the geotechnical and/or geo-environmental characteristics of the site and provides a qualitative assessment of geo-environmental and/or geotechnical risks in relation to the proposed development.
Principal Aquifer	These formations provide a high level of water storage and may support water supply and / or river base flow on a strategic scale
Receptor	Target that could be adversely affected by contaminants
Secondary A Aquifer	These formations are formed of permeable layers capable of supporting water supplies at a local scale, in some cases forming an important source of base flow to rivers.
Secondary B Aquifer	These formations are generally formed of lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering
Secondary Undifferentiated Aquifer	Secondary undifferentiated are aquifers where it is not possible to apply either a Secondary A or B definition because of the variable characteristics of the rock type. These have only a minor value
Site of Special Scientific Interest	Sites designated by Natural England under the Wildlife and Countryside Act 1981. This can include sites of national and international importance for sediments, rocks, fossils, and features of the landscape
Source	Source of contamination
Unproductive Strata	These formations have a low permeability and have negligible significance for water supply or base flow

Abbreviations

Abbreviation	Meaning
AOD	Above Ordnance Datum
bgl	Below Ground Level
BGS	British Geological Survey
CIRIA	Construction Industry Research and Information Association
CSM	Conceptual Site Model
DTS	Desk Top Study
EA	Environment Agency
HDD	Horizontal Directional Drilling
NGET	National Grid Electricity Transmission
NGR	Ordnance Survey National Grid Reference
NPPF	National Planning Policy Framework
NVZ	Nitrate Vulnerable Zone
PAOC	Potential Areas of Concern
PRA	Preliminary Risk Assessment
PV	Photovoltaic
PVDP	Photovolt Development Partners GmbH
RBMP	River Basin Management Plan
SAC	Special Area of Conservation
SPA	Special Protection Area
SPZ	Groundwater Source Protection Zone
SSSI	Site of Special Scientific Interest
UXO	Unexploded Ordnance
WFD	Water Framework Directive

Units

Unit	Description
%	Percentage
m	Metres
kV	Kilovolt
km	Kilometre
MW	Megawatt
MWh	Megawatt hour

1 Botley Northern Site Area - Land Parcel 3, DTS & PRA

1.1 Introduction

1.1.1 RPS Consulting Services Ltd (RPS) was commissioned by PhotoVolt Development Partners GmbH on behalf of SolarFive Ltd to undertake a Desk Top Study (DTS) and Preliminary Environmental Risk Assessment (PRA) of Botley West Solar Farm, Oxfordshire (The Project). The report has been commissioned prior to the proposed development of The Project.

1.1.2 The Project will be located in the county of Oxfordshire, across an area of approximately 1,300 ha. The Project extends from an area of land in the north, situated between the A4260 and the Dorn River Valley near Tackley and Wootton (Northern Site Area), through a central section, situated broadly between Bladon and Cassington (Central Site Area), and connecting to a section further south near to Farmoor Reservoir and north of Cumnor (Southern Site Area), where the Project will connect to the National Grid transmission network. The name 'Botley West' is derived from the location of the grid connection point. The consent being sought for the Project is a temporary one. Temporary consent is being sought for a 42-year period during which the solar farm will be constructed, operated and decommissioned.

1.1.3 The Project comprises three main development sites for the installation of ground-mounted solar photovoltaic (PV) panels (Northern, Central and Southern Site Area) The Project's solar arrays will be connected by electrical cables within each of the Site Areas. The interconnecting cable routes between the Site Areas will largely follow the public highway, but some parts will cross land either leased by the Client or the subject of an easement agreement

1.1.4 A Site Location Plan showing the location and order limits for The Project is presented as Drawing 1In order to provide sufficient detail for the PRA, the three main areas of The Project have been sub-divided by RPS into fourteen land parcels (referenced as Land Parcels 01 – 14) and the two linking cable route corridors (referenced as Land Parcels 15 and 16). Land Parcel 1 was discounted from requirement for further assessment following completion of an initial EIA Scoping exercise undertaken by RPS in February 2023.

1.1.5 This report presents the DTS and PRA for Land Parcel 3 forming part of The Northern Site Area as shown in Figure 1.

1.1.6 The Desk Study assessment is based upon a review of published information available from local, regional, and national agencies. The desk study information is derived from Insights Reports provided by Groundsure, Ref. GSIP-2022-12757-10507 and GSIP-2022-12757-10508_1, which are presented as Annexes C and D respectively. Please note the terms and conditions attached to the supply of data from Groundsure.

1.2 Objectives

1.2.1 The principal objectives of this assessment were as follows:

- Establish from published sources the geological sequence for Land Parcel 3 and potential for ground instability to occur through development

proposals and the extent and nature of any safeguarded minerals reserves;

- To assess potential sources of contamination at the site, associated with historical and current land uses both on site and in the surrounding area;
- To review the environmental setting to assess the sensitivity of the surrounding area to contamination/pollution;
- To produce an outline Conceptual Site Model (CSM) detailing how any contamination may impact the identified receptors via pollutant linkages; and
- To conclude on the likely requirement for any further assessment and ground investigation required in support of the planning application.

1.2.2 The PRA methodology utilised in the preparation of this assessment is presented in detail in Annex A.

1.3 Legislation and Guidance

1.3.1 The assessment has been undertaken in general accordance with British Standard BS EN ISO 21365:2020 and is considered suitable to meet the initial requirements of planning as outlined within the National Planning Policy Framework (NPPF). The assessment also reflects the recommendations of Environment Agency guidance, Land Contamination: Risk Management, (LCRM 2023).

1.3.2 This report has been produced in general accordance with:

- Contaminated Land (England) Regulations 2006 (as amended);
- DEFRA Environmental Protection Act 1990: Part 2A - Contaminated Land Statutory Guidance (2012);
- Environment Agency (2023) Land Contamination: Risk Management (LCRM 2023);
- National Planning Policy Framework (2023);
- CIRIA Document C665: Assessing Risks Posed by Hazardous Ground Gases to Buildings;
- British Standard requirements for the 'Investigation of potentially contaminated sites - Code of practice' (ref. BS10175:2011+A1:2017);
- British Standard requirements for the 'Code of practice for ground investigations' (ref. BS5930:2015+A1:2020); and,
- British Standard requirements for the 'Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings' (ref BS8485:2015+A1:2019).

1.3.3 Details of the limitations of this type of assessment are described in Annex B.

2 Site Description and Desk Study

2.1 Site Location (Land Parcel 3)

2.1.1 A representative address for Land Parcel 3 is Sansom's Lane, Woodstock, Wootton, West Oxfordshire, Oxfordshire, OX20 1ER. It is located at approximate Ordnance Survey (OS) National Grid Reference (NGR) SP 45322,18564 and occupies an area of approximately 51 ha. The extent of land parcel 3 is shown in Figure 1 below.

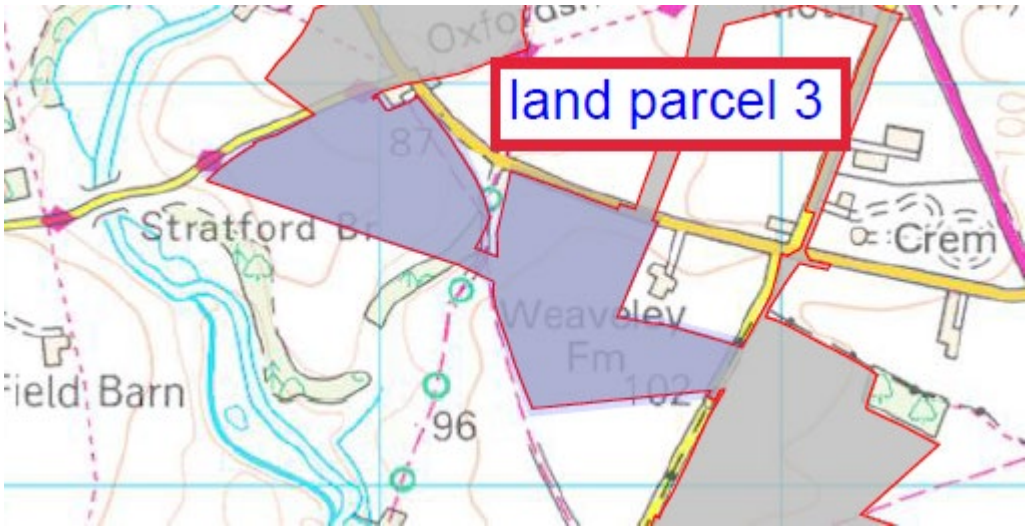

Figure 1: Extent of Land Parcel 3

2.1.2 The topography of Land Parcel 3 is indicated to range from approximately 100 m Above Ordnance Datum (AOD) in the west and south-east to approximately 85 m AOD in a valley containing Sansom's Lane. This information has been obtained from contours and spot heights on OS mapping.

2.1.3 A targeted site inspection has not been undertaken on this land parcel given the absence of any on site permitted current activities or potential contaminant sources from environmental data searches.

2.1.4 From Google Earth aerial photo images (May 2020), Land Parcel 3 is located in an area of predominantly agricultural land use. From the images neighbouring land consisted of the following:

Table 2.1: Neighbouring Land Uses within 250 m

Direction	Description
North:	Oxford School of Drama, Residential Property (Sansome's Cottages), Agricultural Land
West:	Undeveloped Agricultural Land, River Glyme, mature trees and hedgerows
South:	Agricultural land, mature trees and hedgerow
East:	Undeveloped Agricultural Land, Banbury Road, North Oxfordshire Crematorium and Memorial Park

2.2 Proposed Development

2.2.1 The proposed development is to comprise a temporary 1,307 MWp solar farm installation. The Project will connect to a new National Grid Electricity Transmission (NGET) system, via a new National Grid 400 kV substation, to be located close to the existing National Grid 400 kV line that runs between Cowley in Oxford, westwards to Walham, in Gloucestershire. The majority of the development (840 ha) will comprise solar PV modules (solar panels). At the highest point the modules will be 2.2 m and at the lowest point the modules will be 0.8 m. The arrays are intended to be fixed, not rotating. The construction of all aspects of the Project is subject to the final Project design and potential environmental constraints

2.2.2 The method of foundation support and anchoring of the solar panels has not been confirmed however it is likely that this will be through use of galvanised steel piles or screws driven into the ground by an impact piling or screwing rig, to a depth of approximately 1.0 to 2.5 m below ground level (bgl).

2.2.3 Cable routes are to be installed at depths ranging from 1.5 m to 30 m bgl with Horizontal Directional Drilling (HDD)to be utilised where it is not feasible to use the 'open cut' method to cross obstacles such as hedges, rivers, railway lines, public rights of way, roads and sensitive archaeological or ecological areas.

2.2.4 There are likely to be four main temporary construction compounds in the development areas, one in the North, two in the Central area and one in the South. All compounds have been carefully sited in order to minimise potential adverse environmental impacts. Topsoil and subsoil will be stripped from such areas and stored on site for replacement following the completion of construction works. Each compound will have fencing and suitable hard standing, offices, welfare facilities and generators to supply electricity.

2.3 Site History

Historical Map Review

2.3.1 The following review is based on past editions of readily available Ordnance Survey (OS) maps. These include scales of 1:1,250, 1:2,500, 1:10,560 and 1:10,000 dated 1880 to 2023. Extracts from historical maps are included in Annex C.

Table 2.2: Historical Site Uses

On-site Land Use and Features	Dates
Agricultural Land	1880 - current

2.3.2 Pertinent off-site historical site uses within 250 m of Land Parcel 3 are presented below.

Table 2.3: Historical Neighbouring Site Uses

Surrounding Land Uses (250 m radius)	Orientation	Distance	Dates	
			From	To
Sansom's Platt (Historical Roman Settlement)	north	5	1886	1922
Allotments	south	0	1878	1898
Old gravel pit/ Old Quarry	north	5	1878	1937
Quarry	west	10	1886	1955
Pumping station	north-east	200	1975	1950

2.3.3 Sansom's Platt (location of roman coins and pottery) is indicated close to the north on maps from 1886 to 1955. Approximately 100 m north of this land designation, 20 m north of the land parcel boundary, more Roman Coins were indicated to have been found. An article published by Cambridge University Press (ref. A Possible Roman Small Town at Sansom's Platt, Tackley Oxon, 09/11/11, Cambridge University Press) indicates aerial photography of Samson's Platt taken during a drought revealed road and building layouts, interpreted as a small town. The settlement is indicated to be visible on a west-facing slope 500 m south-east of the confluence of the River Glyme and River Dorn.

2.4 Environmental Setting

2.4.1 The Groundsure Insight Reports utilised in preparation of the environmental setting assessment are included in Annex D.

Geology

2.4.2 Based on British Geological Survey (BGS) mapping (1:50,000-scale) and the Environment Agency (EA) Groundwater Vulnerability mapping (1:100,000-scale), the stratigraphic sequence and aquifer classifications beneath the site are indicated to be as follows:

Table 2.4: Descriptions of Geological Strata

Stratum	Description & approximate thickness	Aquifer Classification
Artificial Ground	None recorded	-
Superficial deposits	None recorded	-
Kellaway's Clay Member – Mudstone (Small outcrop in east)	Silicate Mudstone, commonly silty and sandy with local thin beds of siltstone and sandstone with nodules of argillaceous limestone. Approximately 0 – 3 m thick.	Unproductive Strata
Cornbrash Formation - Limestone (eastern edge of site)	Limestone, medium to fine grained predominantly bioclastic Wackestone and Packstone. It is	Secondary A Aquifer

Stratum	Description & approximate thickness	Aquifer Classification
	bioturbated and has poor bedding. Its Parent unit is The Great Oolite Group. Approximately 0 – 10.50 m thick.	
Forest Marble Formation - Limestone	Greenish-grey Mudstones with cross-bedded Limestone units. Its Parent unit is The Great Oolite Group. Approximately 10 – 30 m thick.	Secondary A Aquifer
Forest Marble Formation - Mudstone		Secondary A Aquifer
White Limestone Formation - (Limestone/Mudstone)	Pale grey to yellowish limestone with Grainstone and Packstone comprising ooliths and shell fragments. Recrystallised, muddy and calcareous common. Its Parent unit is The Great Oolite Group. Approximately 20 – 30 m thick.	Principal Aquifer
Hampen Formation – Limestone (eastern part of the western half of the site)	Grey to brown, thinly bedded, fine Limestone with interbedded calcareous mudstone. Approximately 4 – 11 m thick.	Principal Aquifer

2.4.3 A fault is present in the Forest Marble Formation in the east of Land Parcel 3, aligned south-west to north-east.

2.4.4 Sites underlain by limestone can be prone to the presence of natural solution features formed by dissolution of the soluble strata. These features can be present in a stable or potentially unstable condition and metastable cavity forms may be disturbed and triggered to cause ground subsidence. Trigger mechanisms may include loading, leaking drains, water supply pipes etc. An initial inspection of the Stantec data presented in the Groundsure report for natural cavities indicates no recorded locations within 500 m while the risk identified by the BGS for ground dissolution of soluble rocks is negligible to very low for the site area.

2.4.5 There are no available BGS borehole records for this land parcel.

Hydrogeology

2.4.6 The site is located above Principal Aquifers of high vulnerability relating to the limestone dominated Hampen Formation and White Limestone Formation and Secondary A Aquifers relating to the Cornbrash and Forest Marble Formations where there is likely to be preferential groundwater flow through limestone bands rather than mudstones. The limestone is expected to have a low intergranular permeability, but a high secondary permeability imparted by the presence of fractures and fissures, which facilitates groundwater flow.

- Principal Aquifer: These formations provide a high level of water storage and may support water supply and / or river base flow on a strategic scale.

- Secondary A Aquifer: These formations are formed of permeable layers capable of supporting water supplies at a local scale, in some cases forming an important source of base flow to rivers.

2.4.7 According to EA data, Land Parcel 3 is not located in a groundwater Source Protection Zone (SPZ).

2.4.8 Under the Water Framework Directive, the Environment Agency's local River Basin Management Plan classifies groundwater chemical quality beneath the site as Overall and Chemically 'Poor' and Quantitatively 'Good' (2019 data).

2.4.9 Information provided by the EA indicates that there are no records of active licensed groundwater abstractions within 1 km radius.

2.4.10 It is evident that there are two current licensed discharge consents to groundwater/land within 500 m, Hordley Farm for treated sewage effluent approximately 360 m to the north and The Oxford School Of Drama, Sansom's Farm immediately north.

Surface Water

2.4.11 There is one watercourse within 500 m of Land Parcel 3 which is classified within a River Basin Management Plan published by the EA under the European Water Framework Directive (2000). The details of this are as follows:

Table 2.5: Nearby Watercourses and Water Bodies

Watercourse / Body	Quality Classification	Approx. Distance and Direction from Site
River Glyme	Overall – Poor (2019) Chemical – Fail (2019) Ecological – Poor (2019)	185 m west

2.4.12 Information provided by the EA indicates that there are no records of active licensed surface water abstractions within 500 m of Land Parcel 3.

Ecologically Sensitive Sites

2.4.13 Natural England data indicates that Land Parcel 3 lies within three Nitrate Vulnerable Zones including those for the Rivers Glyme and Cherwell (surface water) and Cotswold Jurassic (groundwater).

Radon

2.4.14 According to the Indicative Atlas of Radon in England and Wales published by the Health Protection Agency (part of Public Health England) and the British Geological Survey, Land Parcel 3 is located within an area where a maximum of between 10-30 % of properties exceed the set Radon Action Level, pertaining to the limestone strata in the west. Radon can be a risk to human health from inhalation of radioactive elements. The risk posed outside of buildings is negligible, however due to pressure differences radon gas can accumulate within buildings creating a greater level of risk to occupants through prolonged exposure.

2.4.15 Due to the nature of the development, it is unlikely that there will be any regularly occupied buildings forming part of the development proposals therefore there is no significant radon risk posed from solar farm development of Land Parcel 3.

Coal Authority

2.4.16 The Interactive Map Viewer on the Coal Authority website indicates that Land Parcel 3 is not located in a coal mining reporting area.

Non-Coal Mining

2.4.17 Data sourced from BGS and Ordnance Survey, states that the following non-coal mining activities have occurred within 250 m of Land Parcel 3. These are outlined in the table below;

Table 2.6: Non-Coal Mining Activities

Approx. Distance from Site	Name	Commodity	Status	Description
11 m west	Sansom's Platt	Limestone	Ceased	Surface mineral working
25 m north	Waverley Farm	Clay & Shale	Ceased	Surface mineral working

BGS Ground Stability Hazard Ratings

2.4.18 British Geological Survey Ground Stability Hazard ratings for the site are summarised as follows;

Table 2.7: BGS Ground Stability Hazard Ratings

Ground Stability Hazard	BGS Risk rating
Collapsible ground	Very Low
Compressible ground	Very Low
Ground dissolution	Negligible / Very Low
Landslide	Very Low / Low
Running sand	Negligible
Shrinking or swelling clay	Negligible / Low

2.5 Authorised Processes and Pollution Incidents

Landfills and Waste Sites

2.5.1 Data provided by the EA, Local Authority and BGS indicates that there are no recorded licensed or known historical landfill or waste treatment / transfer sites located within 250 m of Land Parcel 3.

Environmental Permits

2.5.2 EA and Local Authority data indicates that there are no processes regulated by an Environmental Permit (under the Environmental Permitting Regulations 2010) within 500 m of Land Parcel 3.

COMAH Sites

2.5.3 There are no records of any operations under the Control of Major Accident Hazards (COMAH) Regulations, located within 500 m of Land Parcel 3.

Pollution Incidents

2.5.4 Environment Agency data indicates that there are no records of 'major' or 'significant' pollution incidents within 500 m of Land Parcel 3.

2.6 Unexploded Ordnance

2.6.1 CIRIA Report C681 (Stone et al (2009)) outlines recommendations for dealing with the potential risk associated with the legacy of Unexploded Ordnance Risk, largely relating to WWII bombing and military sites.

2.6.2 Reference to the Zetica Unexploded Bomb Risk mapping indicates that the site is in an area of low potential risk from Unexploded Bombs. As the site is not within an area of known military history, in general accordance with CIRIA Report no further consideration of Unexploded Ordnance is considered necessary.

3 Outline Conceptual Site Model

3.1 Background

3.1.1 An outline conceptual site model (CSM) consists of an appraisal of the *source-pathway-receptor* 'contaminant linkages' which is central to the approach used to determine the existence of 'contaminated land' according to the definition set out under Part 2A of the Environmental Protection Act 1990. For a risk to exist (under Part 2A), all three of the following components must be present to facilitate a potential 'pollutant linkage'.

- Source referring to the source of contamination (Hazard).
- Pathway for the contaminant to move/migrate to receptor(s).
- Receptor (Target) that could be affected by the contaminant(s).

3.1.2 Receptors include human beings, controlled waters and buildings / structures. The National Planning Policy Framework, used to address contaminated land through the planning process, follows the same principles as those set out under Part 2A.

3.1.3 As part of the assessment the potential risks to receptors for potential source is given one of the following classifications:

- Low risk - it is considered unlikely that issues within the category will give rise to significant harm to identified receptors
- Moderate risk - it is possible, but not certain that issues within the category will give rise to significant harm to receptors
- High risk - there is a high potential that issues within the category will give rise to significant harm to identified receptors

3.2 Potential Pollutant Linkages

3.2.1 Each stage of the potential pollutant linkage sequence has been assessed individually on the basis of information obtained during the site reconnaissance and desk study exercise and are discussed in the following section.

Potential Contaminant Sources

On Site – Current

3.2.2 No current on site potentially contaminative land uses have been identified. Possible concrete attack from naturally occurring sulphate concentrations in soils, acidic soils or shallow groundwater cannot be discounted entirely.

On Site – Historical

3.2.3 No historical on site potentially contaminative land uses have been identified.

Off-site – Current

3.2.4 Current off-site potential sources of contaminants of concern include the discharge of treated sewage effluent into ground at the Oxford School of Drama immediately north. As this is a permitted activity, it is assumed that there will be appropriate pollution prevention measures employed to mitigate any risk of pollution of groundwater and that this would not adversely impact on Land Parcel 3.

Off-Site – Historical

3.2.5 Historical maps indicate infilled former limestone or gravel pits/quarries within 250 m of the site boundaries. These represent the possible presence of localised Made Ground of variable depth and composition and although outside the area of proposed solar farm construction, shallow weathered bedrock deposits are likely to be granular, of high permeability and readily allow migration of liquid/gaseous contaminants that may be associated with the infilled pits.

Potential Pathways

3.2.6 Given the absence of recorded sources of on-site Made Ground there is not considered to be a risk to human health posed by typical exposure pathways of dermal contact, ingestion and outdoor inhalation in soft landscaping areas. The absence of any occupied buildings as part of the development would also

negate the pathway of indoor inhalation of vapours/gases through accumulation within structures.

3.2.7 There is the potential for gaseous or liquid/leachable contaminants of concern (if present) from historical or current off-site sources to migrate on site via granular horizons in the weathered bedrock, fractures in intact limestone or through shallow groundwater. Limited migration would be expected through the mudstone layers.

3.2.8 It should be noted that pathways may be modified or exacerbated by disturbance of the site.

Potential Receptors

Controlled Waters

3.2.9 The outcropping bedrock comprise Primary and Secondary A Aquifers which represent potentially significant receptors, however the absence of identified abstractions and source protection zones within 500 m would indicate low sensitivity.

3.2.10 The nearest surface water feature classified within a River Basin Management Plan is the River Glyme approximately 185 m west with an overall quality classification of 'poor'. Given the absence of identified on site potential contamination sources, surface water has been discounted as being a significant receptor based upon the site setting and Desk Study findings.

Human Health

3.2.11 Following construction of The Project it is not envisaged that there will be any full-time occupants of the site however it is expected that there will be periodic requirements for maintenance work/checks. The risks posed to maintenance workers are considered to be limited to any works in where there may be short-term direct contact, inhalation or ingestion of contaminated soil or vapours, although from the desk study findings and absence of identified on site sources of contamination this is considered unlikely.

3.2.12 The absence of any identified-on site contamination sources, low dust generation potential of the preferred method of installing driven anchors/supports for the banks of PV panels and low-density residential development in the area around Land Parcel 3 would indicate no significant risks to off-site human health receptors.

3.2.13 The assessment does not consider the risk to construction/demolition workers during redevelopment. These risks will be managed through appropriate H&S legislation including the Health & Safety At Work Act and CDM regulations.

Solar Farm Structures

3.2.14 Another potential receptor are the foundations for PV panels, cables and steel structures likely to be placed within the shallow soils (and possibly through Made Ground). There is a risk to chemical attack from sulphates present within any Made Ground present or corrosion / degradation of steel anchors, cables from a high-water table or acidic ground conditions.

Sensitive Land Use

3.2.15 There are no environmentally sensitive land uses within 500 m other than the groundwater and surface water nitrate vulnerable zones. It is not envisaged that the proposed development will introduce new sources of nitrate or increase leaching potential of nitrate in soils.

3.3 Outline Conceptual Site Model

3.3.1 An outline CSM has been developed on the basis of the site reconnaissance and desk study. The CSM is used to identify potential sources, pathways and receptors (i.e. potential pollutant linkages) on site post development and is summarised in the table below.

Table 3.1: Outline Conceptual Site Model

Potential Source	Contaminants of Concern	Via	Potential Pathways	Linkage Potentially Active?	Receptors	Qualitative Risk Rating	Notes
On site – Made Ground or natural strata	sulphates, pH	Chemical Attack	Direct contact, shallow groundwater	✓	Steel foundations, concrete slabs	Low	Made Ground unlikely to be present and anticipated bedrock strata unlikely to contain elevated sulphate levels. Shallow groundwater unconfirmed.
Off-site – current: Sewage discharge	pathogens	Groundwater	Direct contact/ingestion	×	Future site users	N/A	Permitted Activity – permit granted on confirmation of use of pollution mitigation measures.
Off-site – historical: Former pits and quarries	Carbon dioxide and methane	Ground Gas	Inhalation of ground gas	×	Future site users	N/A	No anticipated regular occupation of buildings post construction.
			Explosive risks	×	Future site users	N/A	
				×	Future site Structures	N/A	

Note × The Qualitative Risk Rating does not consider the potential for the pathway to be active. In the event that a Moderate or High Qualitative Risk Rating is identified further assessment is recommended.

3.3.2 Based on the identified potential sources and the site setting there is not considered to be a significant risk to ecological receptors, crops/vegetation or archaeological receptors.

4 Conclusions and Recommendations

4.1 Preliminary Geoenvironmental Conclusions

4.1.1 The PRA undertaken has not identified any potentially significant potential source-pathway-receptor linkages relating to the proposed temporary solar farm development of Land Parcel 3.

4.1.2 The presence of unknown soil contamination being discovered during construction works cannot be discounted entirely and it is recommended that if encountered works should stop and specialist advice obtained on how to proceed.

4.2 Preliminary Geotechnical Conclusions

4.2.1 The available geological data suggests that bedrock strata of the Cornbrash Formation, Forest Marble, White Limestone and Hampen Formations outcrop across this land parcel, predominantly comprising limestones or interbedded mudstones and limestones.

4.2.2 The anticipated predominantly granular shallow weathered bedrock strata and potential for shallow intact limestone bedrock may impede the ability to install driven/augered foundations or anchors for photovoltaic panels. Pile refusal, or failure to reach the target embedment depth, can result in insufficient capacity against lateral and uplift loads, and require remediation or alternate installation procedures therefore ground investigation is recommended to determine suitability of shallow ground conditions for driven foundation types. Alternative ground-based anchor systems may have to be considered if deemed unsuitable for achieving the required lateral loading parameters.

4.2.3 There is no evidence of any other ground instability hazards that could impact on the proposed development. The setting on limestone bedrock presents a possible instability risk presented by dissolution of the soluble limestone and the formation of natural cavities, however BGS records indicate the risk rating for dissolution of soluble rocks to be negligible to very low for Land Parcel 3 which means that few dissolution features are likely to be present and the potential for difficult ground conditions or localised subsidence are at a level where they need not be considered.

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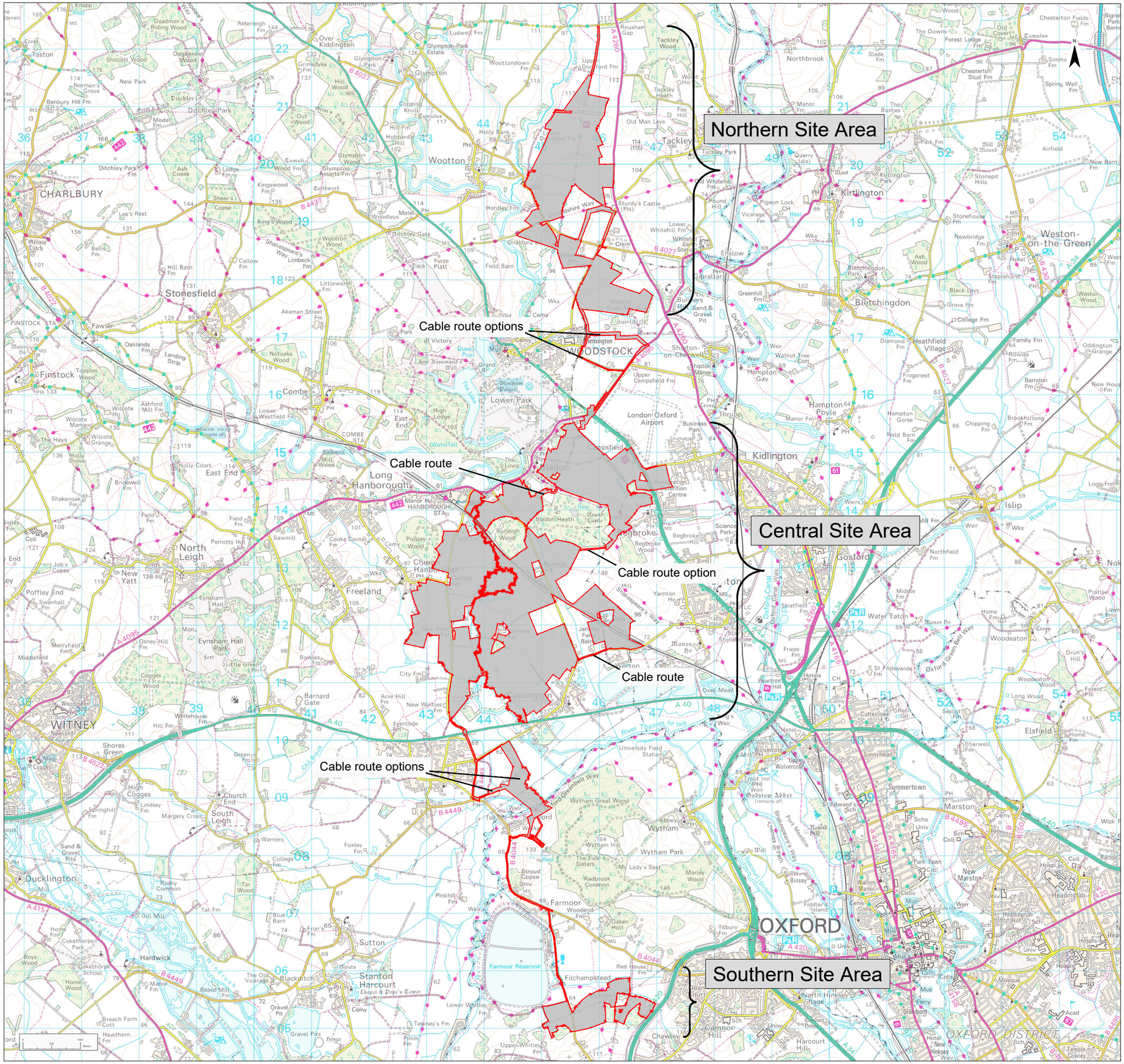
https://magic.defra.gov.uk/

[redacted]

RPS (2023): Botley West Solar Farm, EIA Scoping Report, Ground Conditions Ref 230403_R_JER9429_BOTLEY WEST SOLAR FARM_Scoping Report v1

Drawings

Drawing 1: Site Location Plan



Legend

Site Location and Order Limits

Project				Status		
Botley West Solar Farm						
Id.	Changes	Date	Name		Date	Name
				Edit	25.04.2024	V. Guskova
				Check	25.04.2024	H. Trabelsi
				Approval		
				Project-No		
				Drawing No		
A	Created	25.04.2024	VG	prj-01-0390		

CAD-data name: 240425 Botley West Masterplan Overview.dwg

Scale: 1:65000 at A3 DIM: m

Plan

Site Location and Order Limits Overview
Drawing 1

Photovolt Development Partners GmbH
Kurfürstendamm 52
10707 Berlin, Germany

Annex A
PRA Methodology

PRA METHODOLOGY

INTRODUCTION

This report provides available factual data for the site obtained only from the sources described below and related to the site on the basis of the location provided by the client. The desk study information is not necessarily exhaustive and further information relevant to the site may be available from other sources. No responsibility can be accepted by RPS for inaccuracies in the data supplied by any other party.

This report is written in the context of an agreed scope of work and should not be used in a different context. Furthermore, new information and changes in legislation may necessitate a re-interpretation of the report in whole or in part after its original submission. The report is provided for sole use by the client and is confidential to them and their professional advisors. No reliance whatsoever is provided to any party other than the client unless otherwise agreed.

INFORMATION SOURCES

Current and Historical Land Use

This section establishes the former and current uses of the site, which could have caused contamination. Details of the site location, the current and proposed site uses have been provided by the client.

Information about the history of the site has been obtained through an inspection of historical maps at 1:10,000, 1:2,500 and 1:1,250 scales and historical aerial photographs (where available). The accuracy of maps cannot be guaranteed, and it should be recognised that different conditions on-site may have existed between, and subsequent to, the map survey dates.

Regulatory Records

Regulatory records including landfills, pollution incidents ('major' and 'significant' only), industry authorisations and licensed water abstractions are derived from information purchased from Groundsure Ltd (unless otherwise specified).

Environmental Setting

The geological sequence underlying the site and the approximate depths of strata are provided by maps published by the British Geological Survey (BGS) 1:50,000 scale and available borehole records held by the BGS.

The hydrogeological classification is obtained from Groundwater Vulnerability mapping by the BGS/EA/National Resources Wales (NRW). The vulnerability of groundwater is determined from this mapping and geological information.

The location of surface watercourses is obtained from an inspection of current OS maps. Flood risk details and information on groundwater Source Protection Zones are obtained from readily available EA/NRW information published on-line and supplied by Groundsure Ltd.

Details of sensitive ecosystems/habitats and coal mining areas are supplied by Natural England, Natural Resources Wales and Scottish Natural Heritage and the Coal Authority respectively via Groundsure Ltd and inspection of the MAGIC website.

Radon is a radioactive gas produced naturally by certain types of geology. This report uses the Indicative Atlas of Radon in England and Wales (2007) produced by the Health Protection Agency (HPA) and the British Geological Survey (BGS) to determine whether the site is located in an area at risk from radon gas. Where potential issues are identified, a site-specific radon report is obtained from the HPA and BGS to provide a more accurate estimate of the probability of the site being affected by radon gas ingress.

Annex B
Limitations of Assessment

General Notes

RPS Consulting Services Ltd

Phase 1 - Environmental Risk Assessment / Desk Study Environmental Review

1. A "desk study" means that no site visits have been carried out as any part thereof, unless otherwise specified.

1. This report provides available factual data for the site obtained only from the sources described in the text and related to the site on the basis of the location information provided by the Client.

2. The desk study information is not necessarily exhaustive and further information relevant to the site may be available from other sources.

3. The accuracy of maps cannot be guaranteed and it should be recognised that different conditions on site may have existed between and subsequent to the various map surveys.

4. No sampling or analysis has been undertaken in relation to this desk study.

5. Any borehole data from British Geological Survey sources is included on the basis that: "The British Geological Survey accept no responsibility for omissions or misinterpretation of the data from their Data Bank as this may be old or obtained from non-BGS sources and may not represent current interpretation".

6. Where any data supplied by the Client or from other sources, including that from previous site investigations, have been used it has been assumed that the information is correct. No responsibility can be accepted by RPS for inaccuracies in the data supplied by any other party.

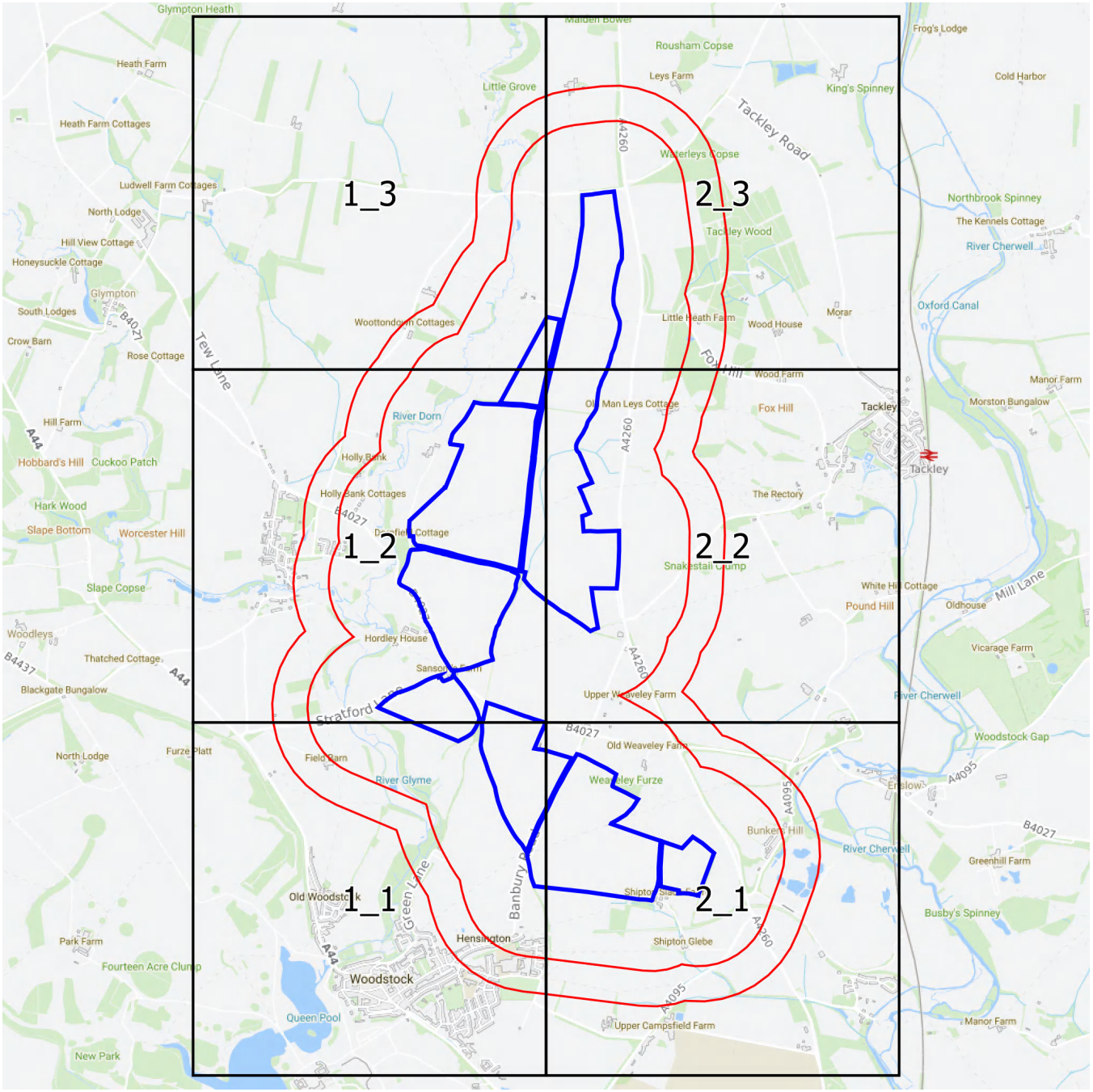
7. This report is prepared and written in the context of an agreed scope of work and should not be used in a different context. Furthermore, new information, improved practices and changes in legislation may necessitate a re-interpretation of the report in whole or in part after its original submission.

8. The copyright in the written materials shall remain the property of the RPS Company but with a royalty-free perpetual licence to the Client deemed to be granted on payment in full to the RPS Company by the Client of the outstanding amounts.

9. The report is provided for sole use by the Client and is confidential to them, their professional advisors, no responsibility whatsoever for the contents of the report will be accepted to any person other than the Client. [Unless otherwise agreed]

10. These terms apply in addition to the RPS "Standard Terms & Conditions" (or in addition to another written contract which may be in place instead thereof) unless specifically agreed in writing. (In the event of a conflict between these terms and the said Standard Terms & Conditions the said Standard Terms & Conditions shall prevail.) In the absence of such a written contract the Standard Terms & Conditions will apply.

Annex C
Groundsure Insights
Historical Map Reports



Groundsure INSIGHTS

Small Scale Grid Index

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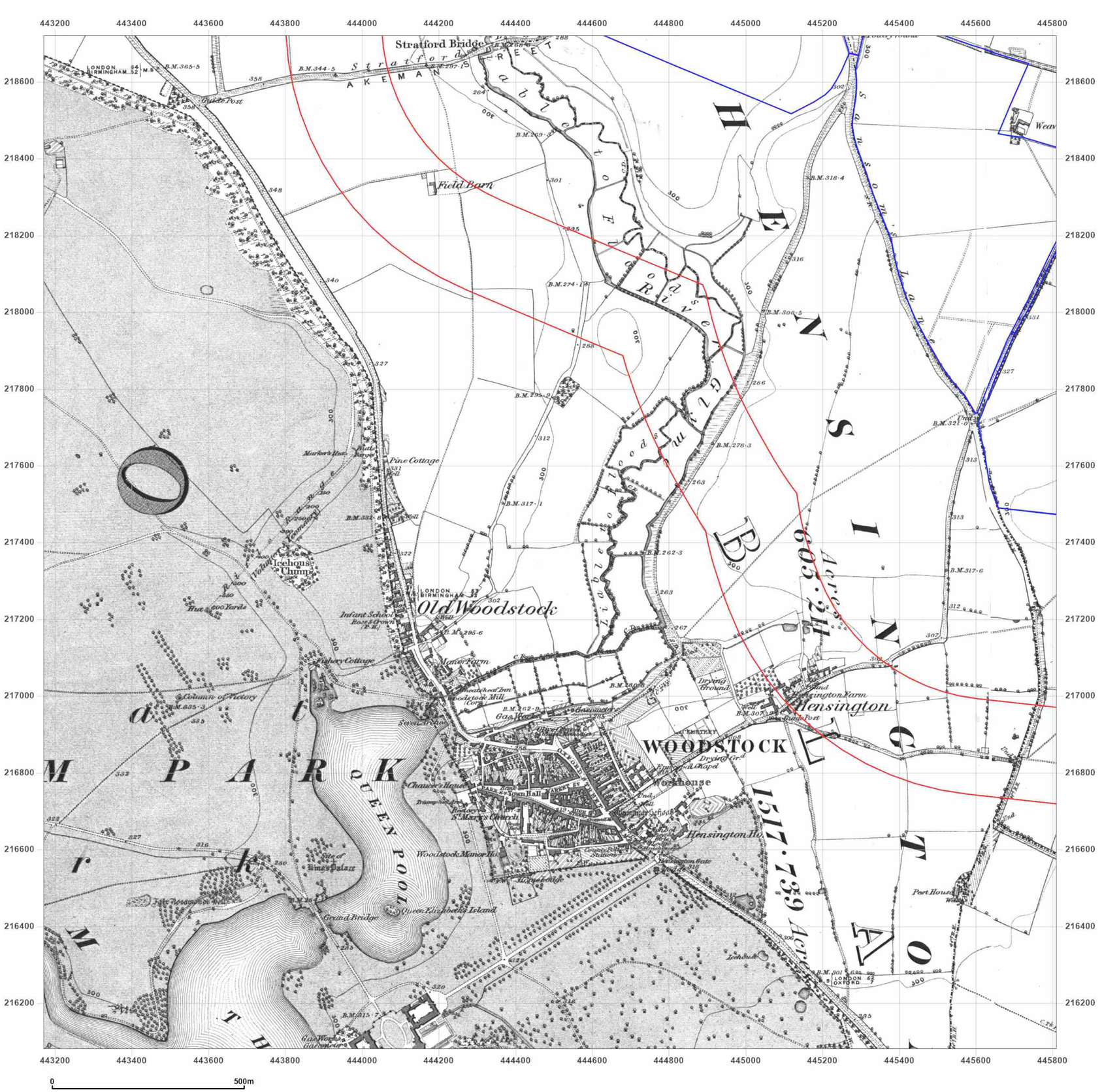

Groundsure
INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_1_1
Grid Ref: 444489, 217400

Map Name: County Series

Map date: **1876-1880**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

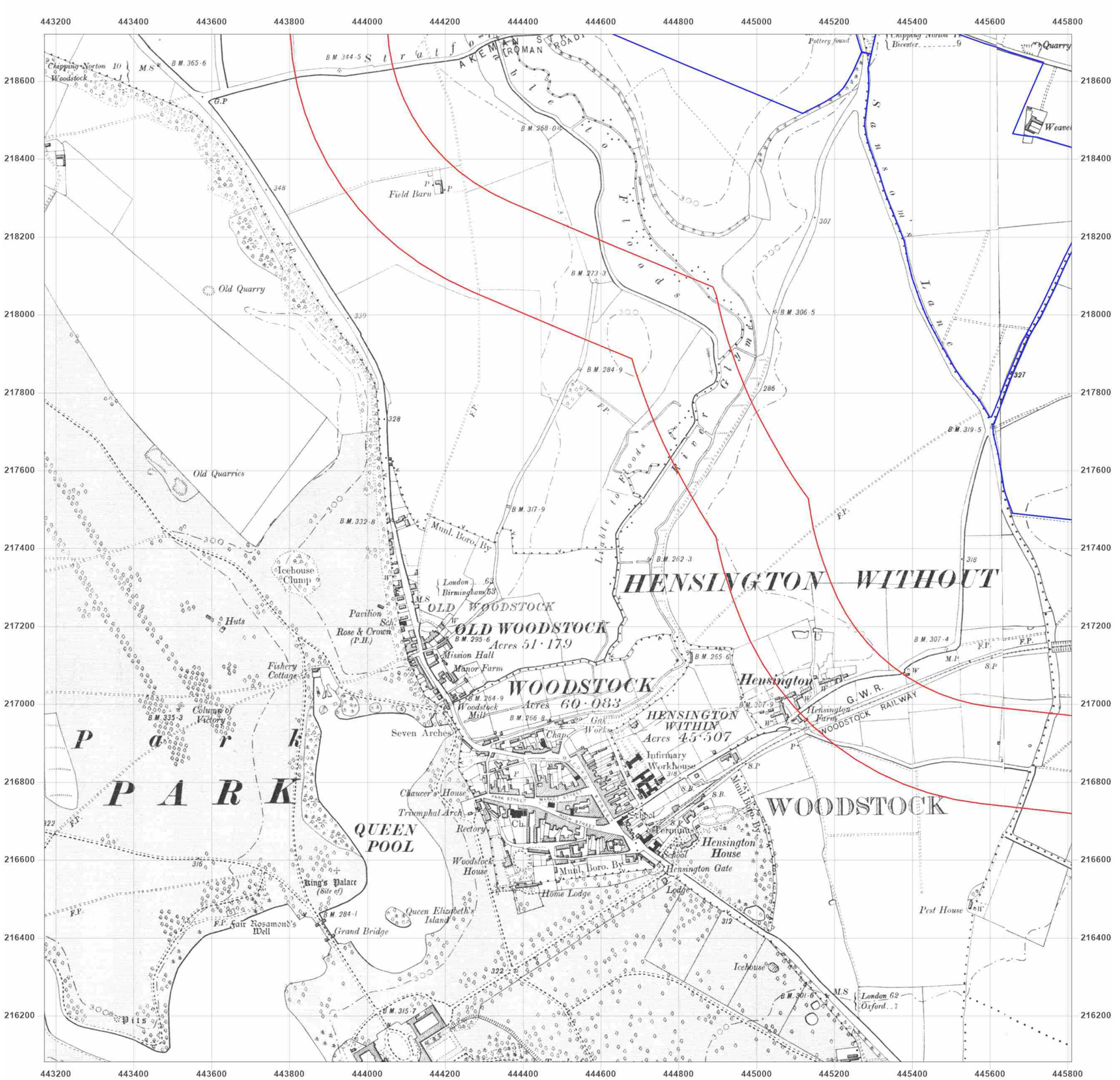
Surveyed 1876
Revised 1876
Edition N/A
Copyright N/A
Levelled N/A

Powered by OS

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

Production date: 24 May 2022

Map legend available at:
[redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_1_1
Grid Ref: 444489, 217400

Map Name: County Series

Map date: **1898**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1879
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1875
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

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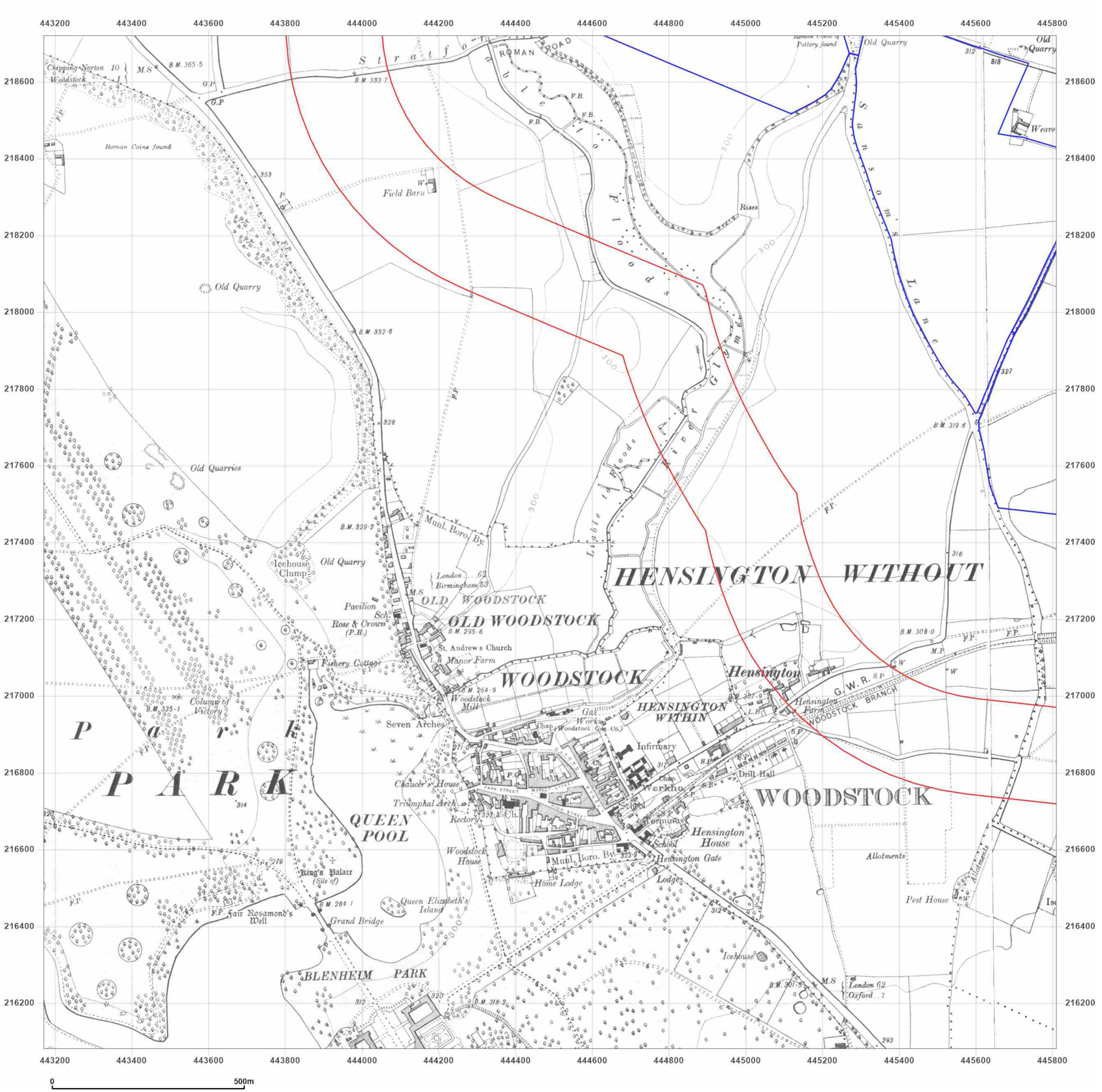
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_1_1
Grid Ref: 444489, 217400

Map Name: County Series

Map date: **1919**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1879
Revised 1919
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1875
Revised 1919
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 24 May 2022

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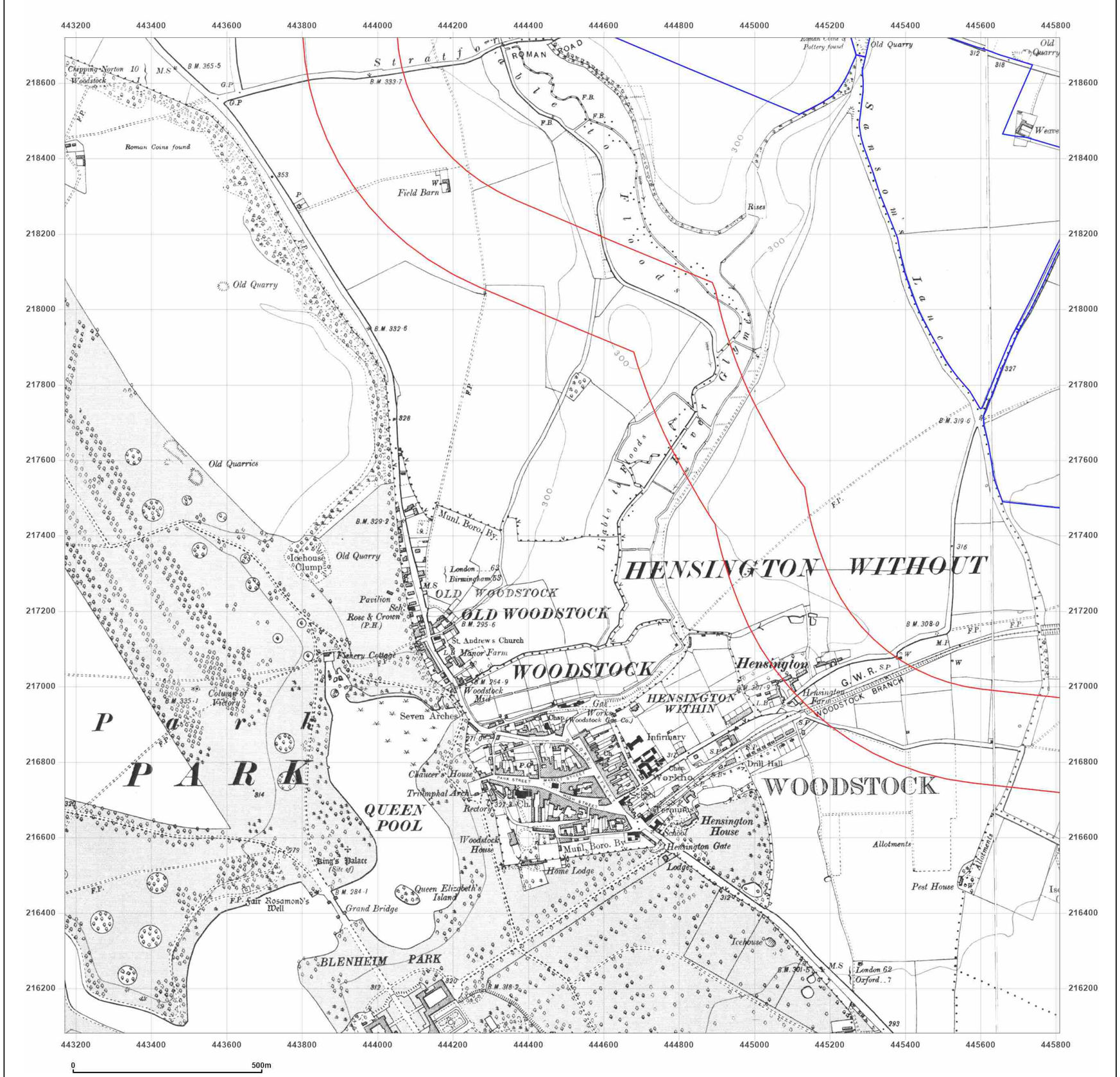

Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_1_1
Grid Ref: 444489, 217400

Map Name: County Series

Map date: **1923**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1875
Revised 1923
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1879
Revised 1923
Edition N/A
Copyright N/A
Levelled N/A

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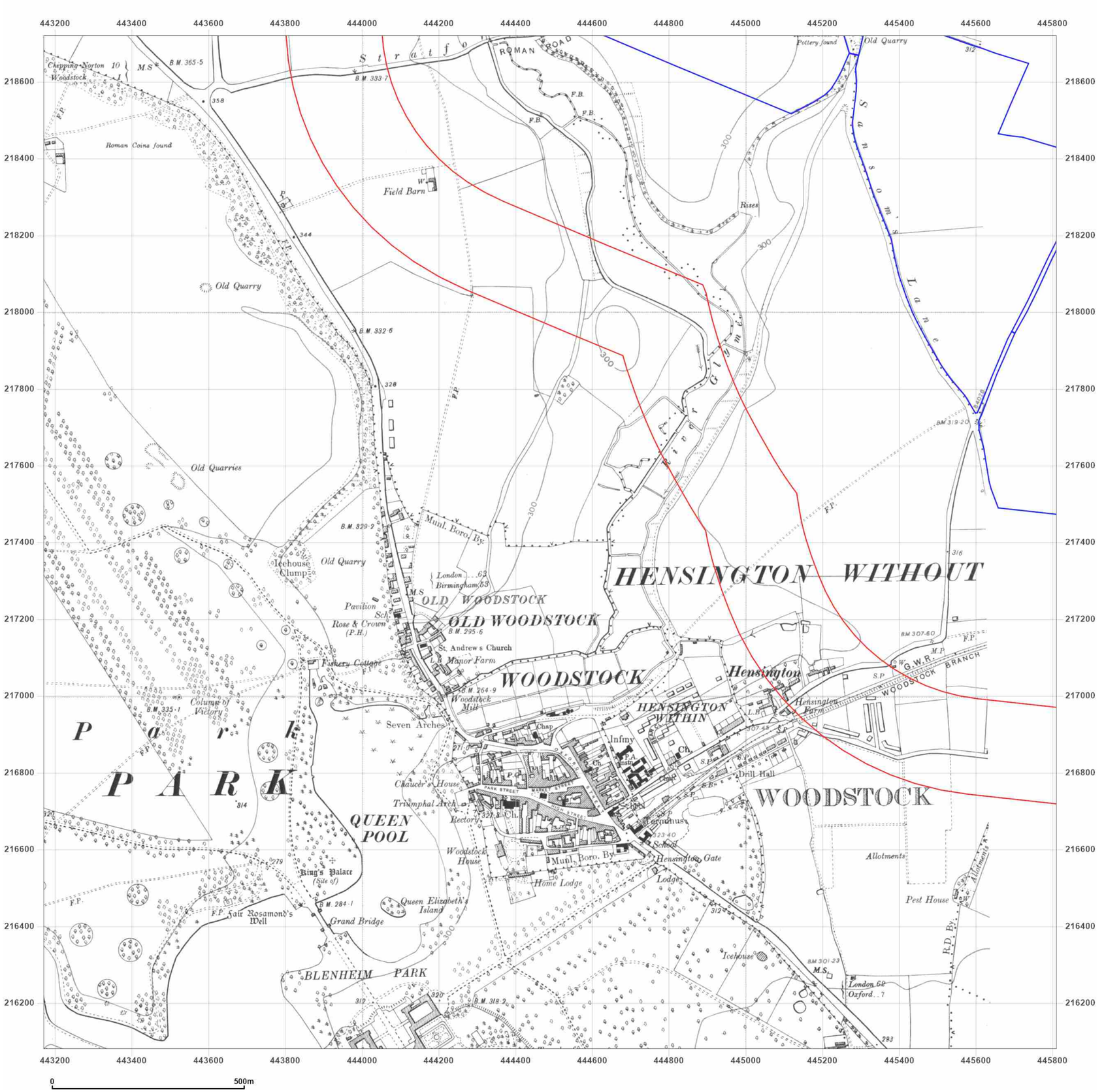
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_1_1
Grid Ref: 444489, 217400

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1879
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

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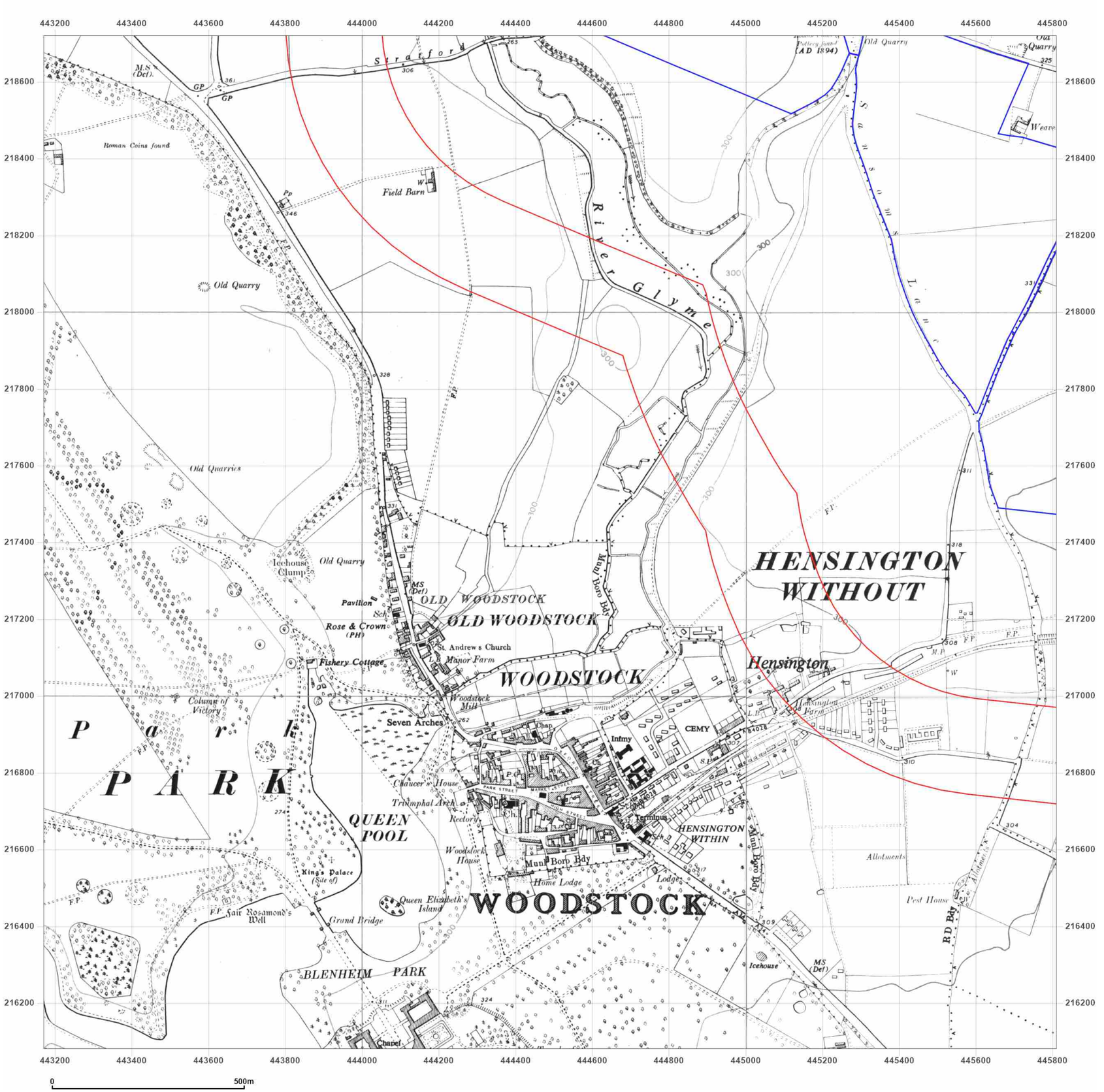
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_1_1
Grid Ref: 444489, 217400

Map Name: Provisional
Map date: **1950-1955**
Scale: 1:10,560
Printed at: 1:10,560

N
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Surveyed N/A
Revised 1954
Edition 1955
Copyright N/A
Levelled N/A

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

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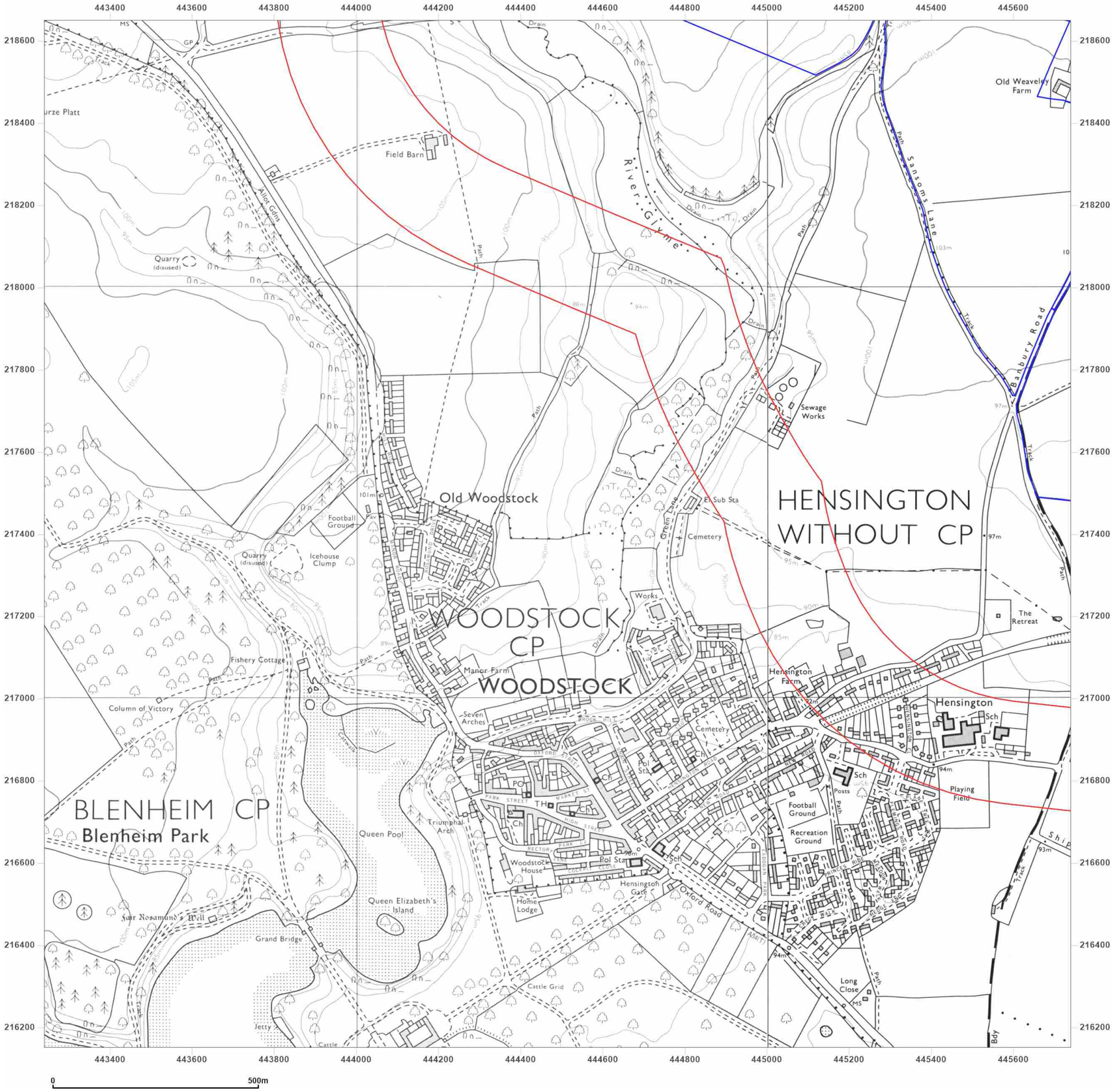
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at:



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_1_1
Grid Ref: 444489, 217400

Map Name: National Grid

Map date: **1979-1980**

Scale: 1:10,000

Printed at: 1:10,000

N
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Surveyed 1973 Revised 1979 Edition N/A Copyright 1979 Levelled 1974	Surveyed 1974 Revised 1980 Edition N/A Copyright 1980 Levelled 1973

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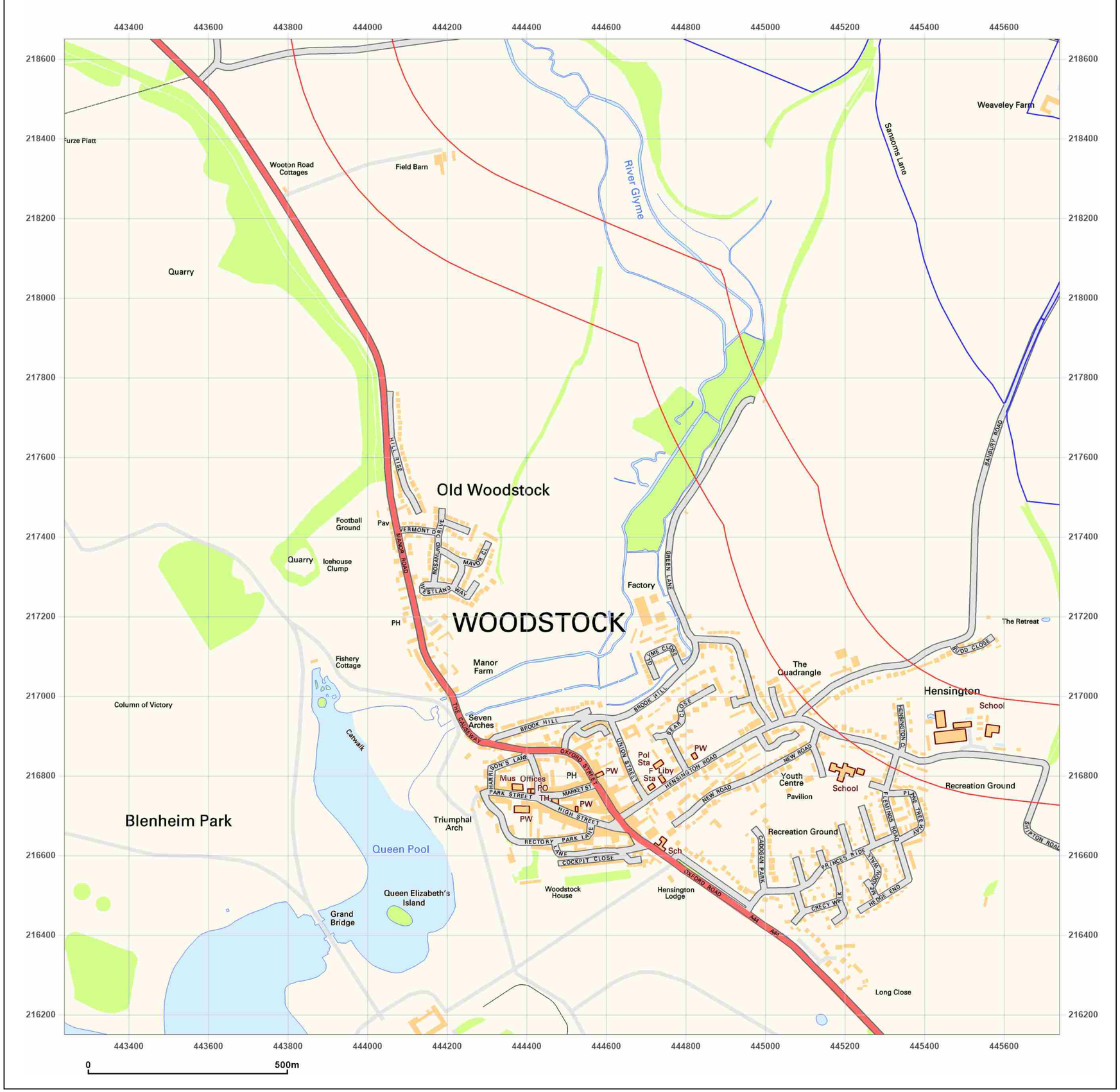
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_1_1
Grid Ref: 444489, 217400

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

N
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2001

Powered by OS

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W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]

Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_1_1
Grid Ref: 444489, 217400

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

N
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2010

Produced by
Groundsure Insights
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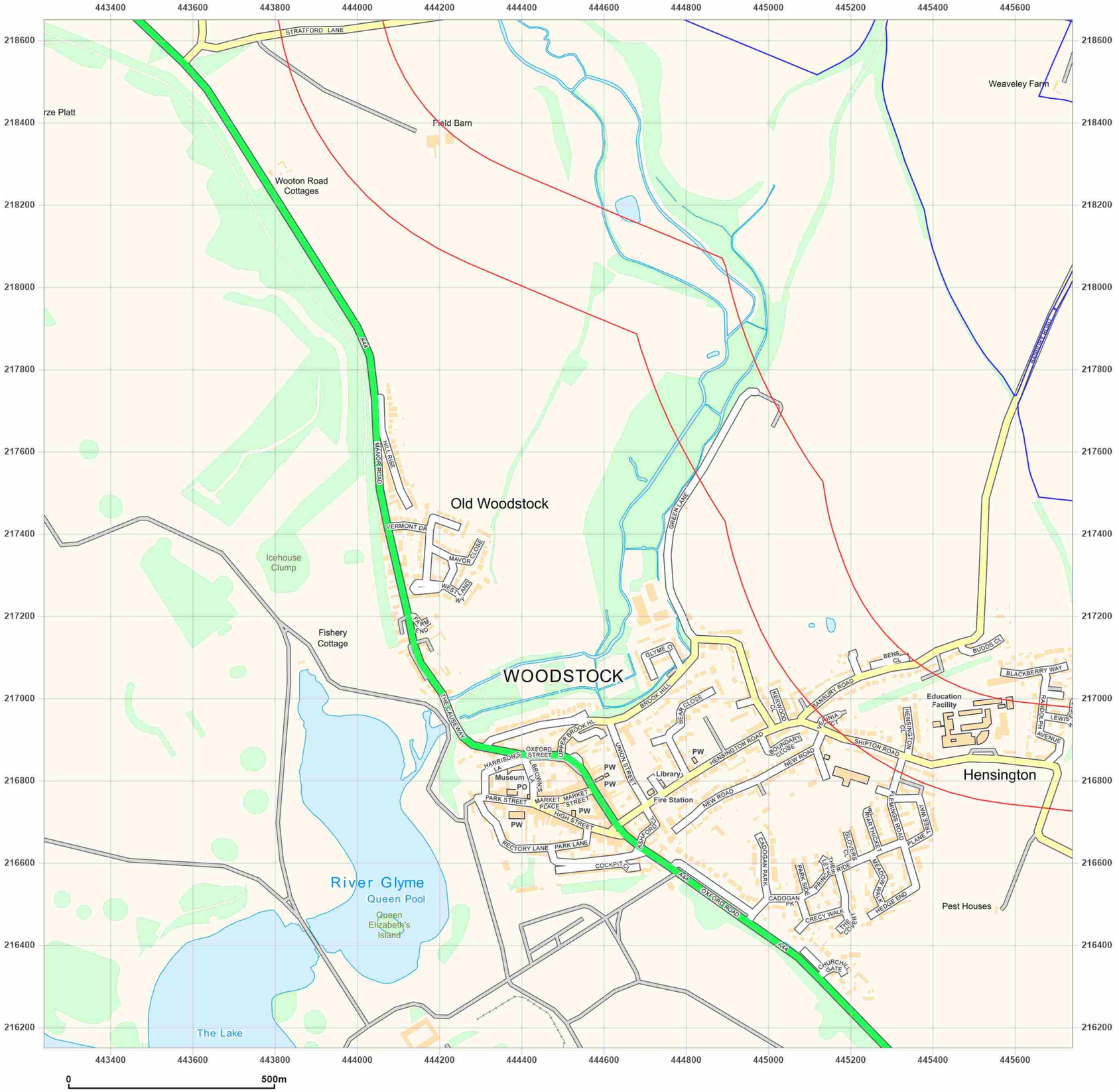
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at:



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_1_1
Grid Ref: 444489, 217400

Map Name: National Grid

Map date: **2022**

Scale: 1:10,000

Printed at: 1:10,000

N
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2022

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W: www.groundsure.com

Production date: 24 May 2022

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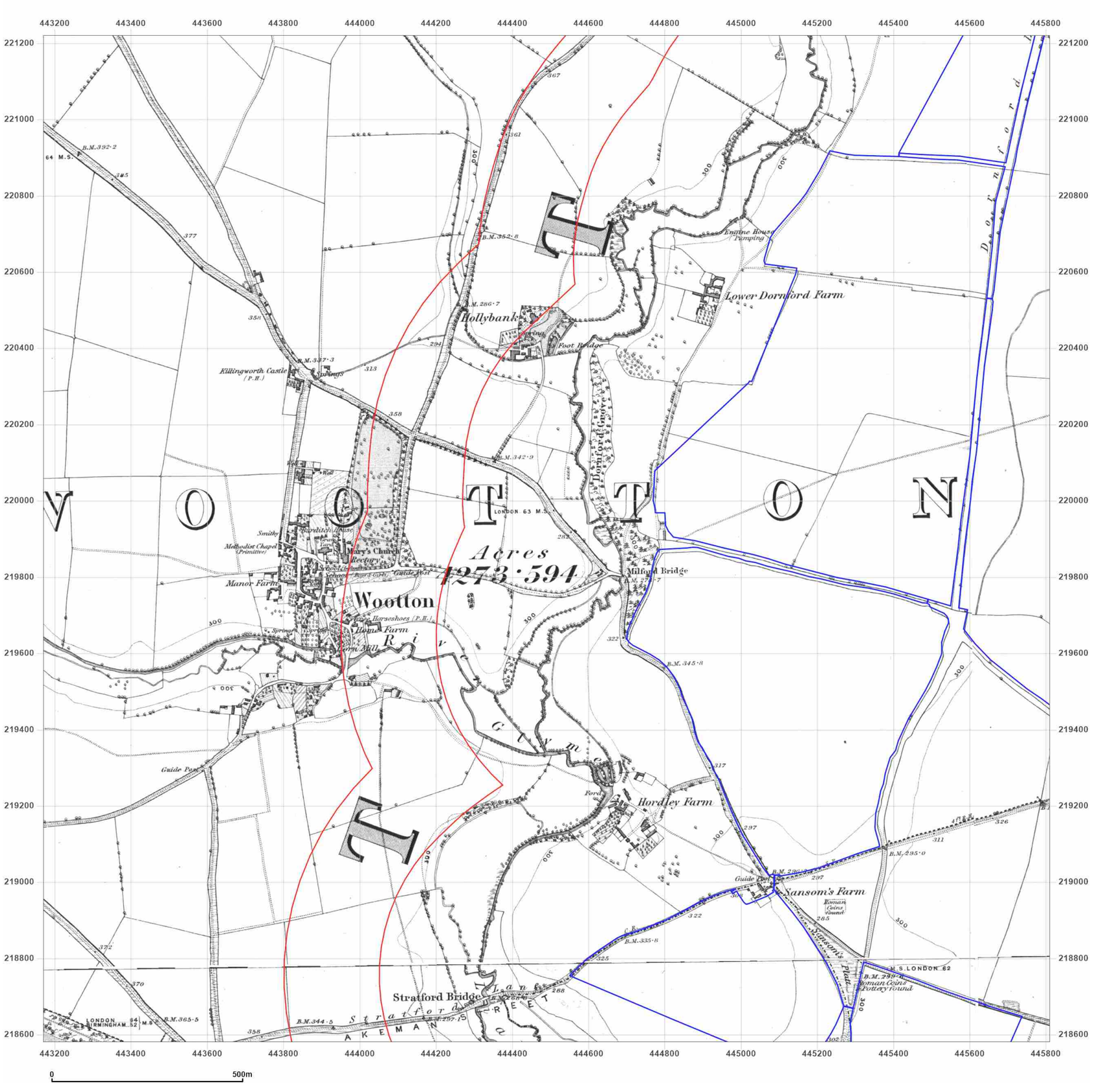

Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_1_2
Grid Ref: 444489, 219900

Map Name: County Series

Map date: **1875-1880**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1875
Revised 1875
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1876
Edition N/A
Copyright N/A
Levelled N/A

Powered by OS

Produced by
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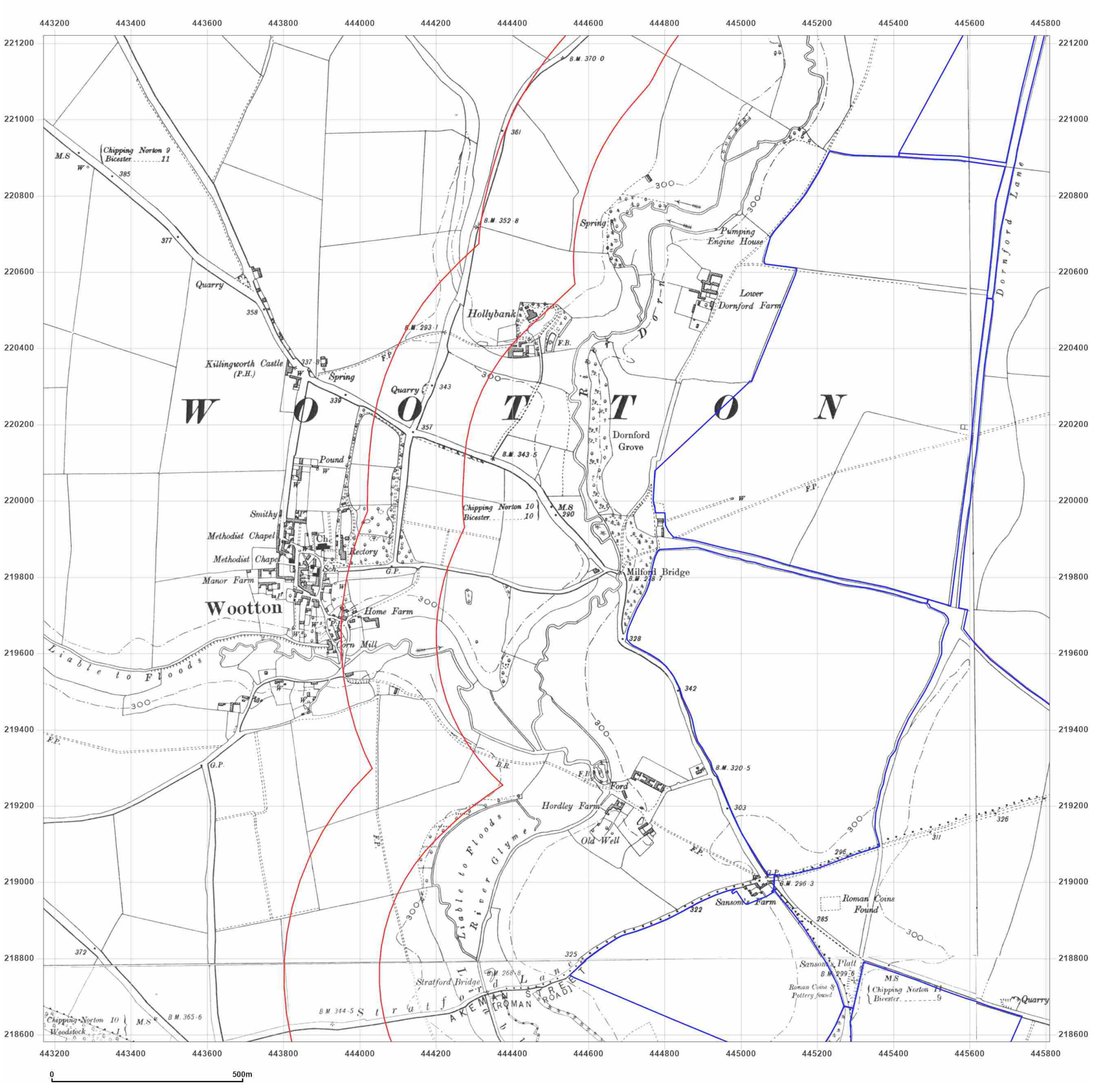
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_1_2
Grid Ref: 444489, 219900

Map Name: County Series

Map date: **1898-1900**

Scale: 1:10,560

Printed at: 1:10,560

N
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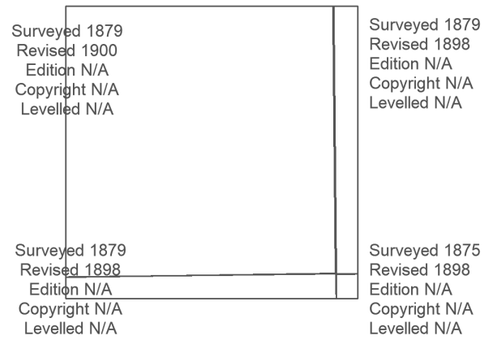

Powered by OS

Produced by
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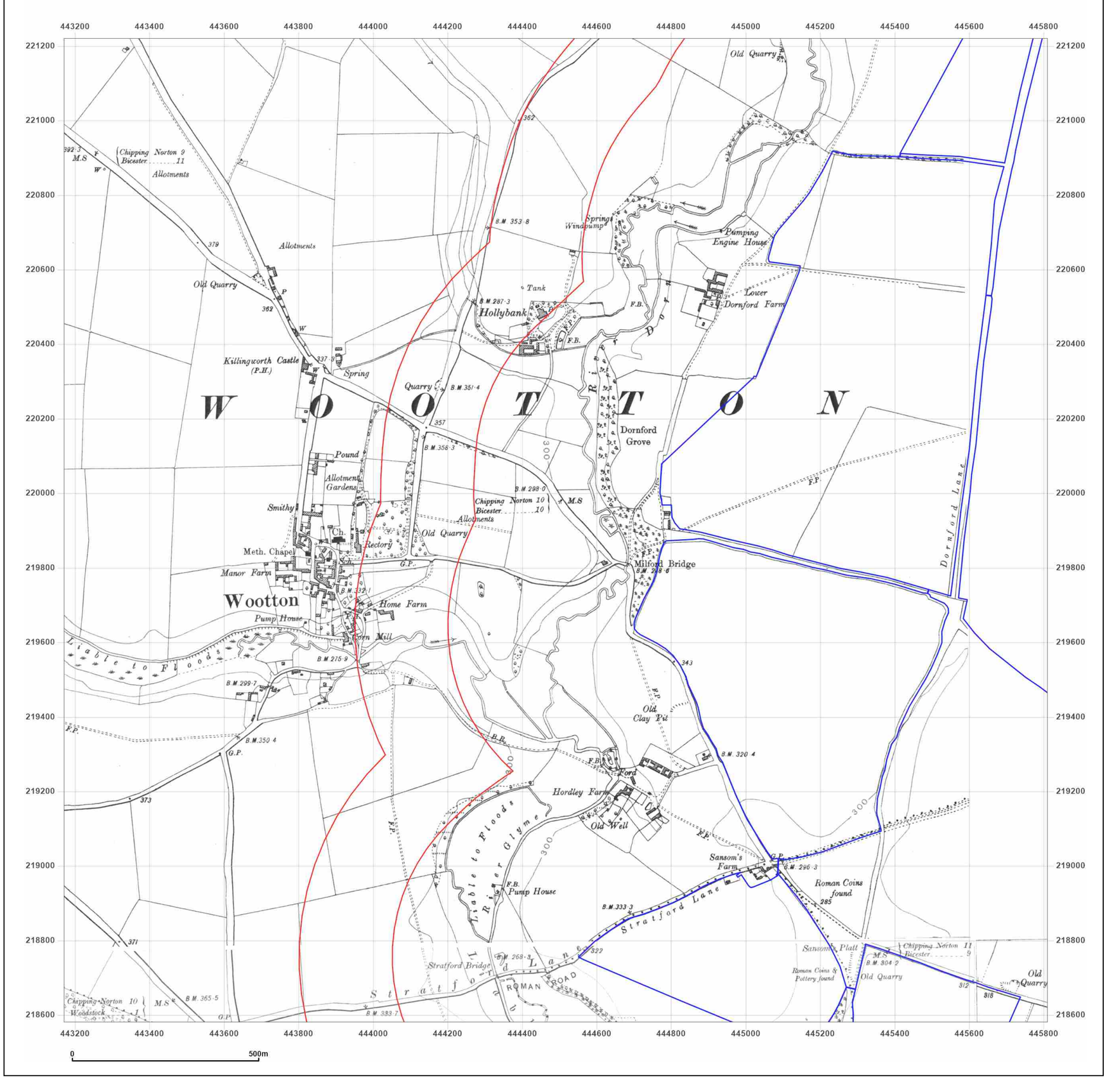
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_1_2
Grid Ref: 444489, 219900

Map Name: County Series

Map date: **1919-1923**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1880
Revised 1923
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1879
Revised 1919
Edition N/A
Copyright N/A
Levelled N/A

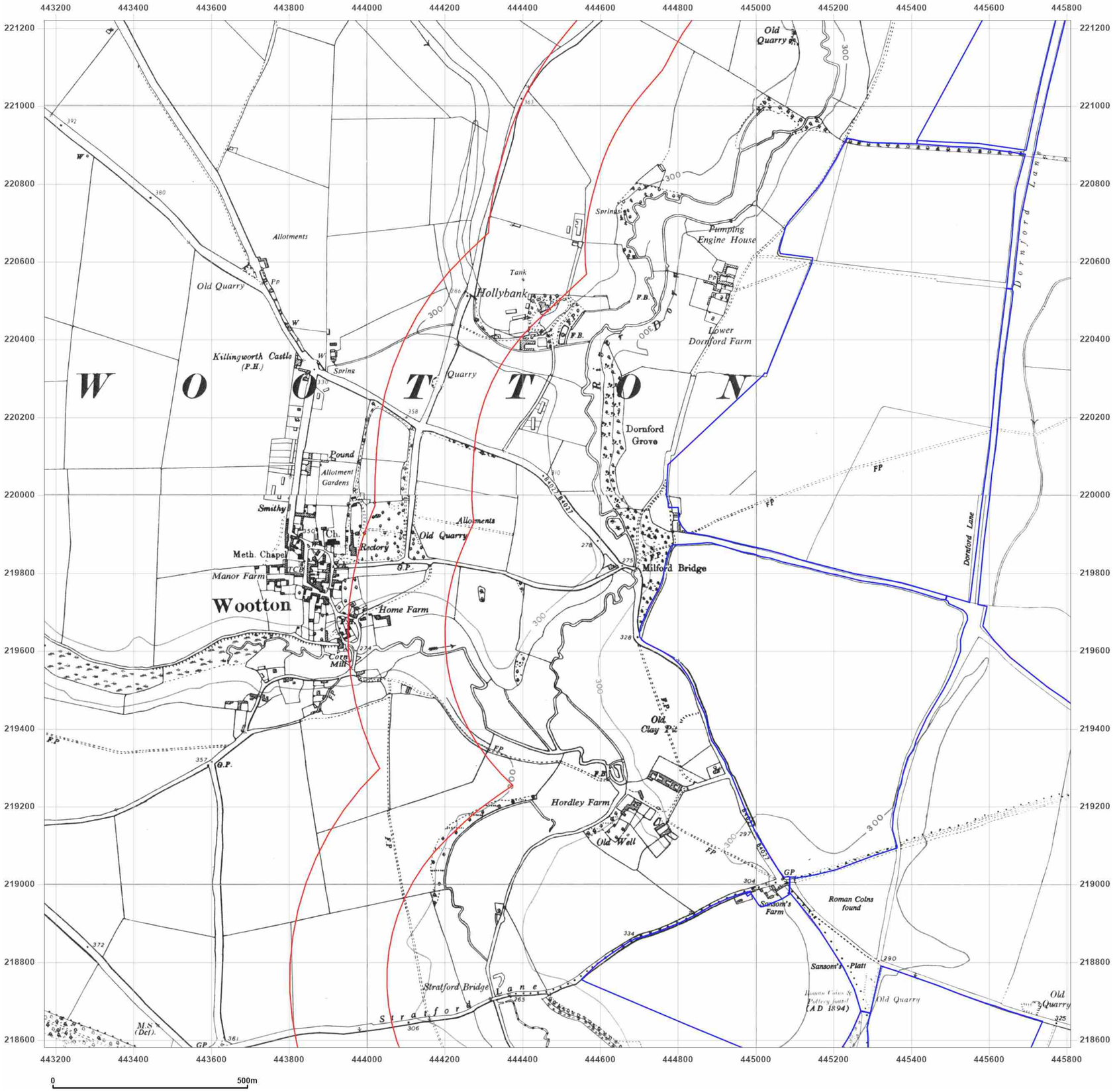
Surveyed 1875
Revised 1919
Edition N/A
Copyright N/A
Levelled N/A

Powered by

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

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_1_2
Grid Ref: 444489, 219900

Map Name: Provisional
Map date: **1950-1955**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
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Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled N/A

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

Surveyed N/A
Revised 1954
Edition 1955
Copyright N/A
Levelled N/A

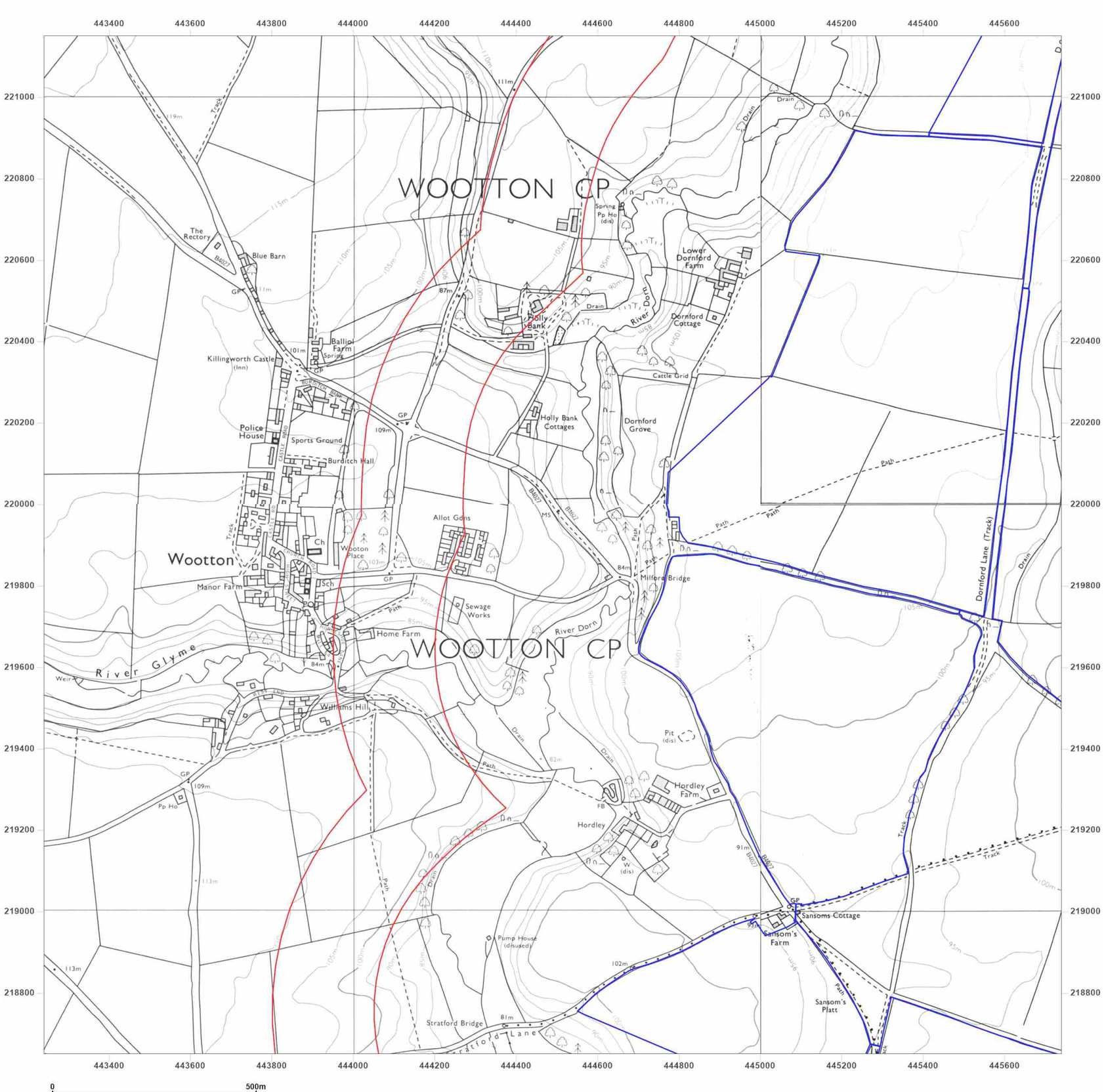
Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled N/A

Powered by OS

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

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_1_2
Grid Ref: 444489, 219900

Map Name: National Grid

Map date: **1979-1980**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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Surveyed 1973
Revised 1979
Edition N/A
Copyright 1979
Levelled 1974

Surveyed 1974
Revised 1980
Edition N/A
Copyright 1980
Levelled 1973

Surveyed 1973
Revised 1979
Edition N/A
Copyright 1979
Levelled 1974

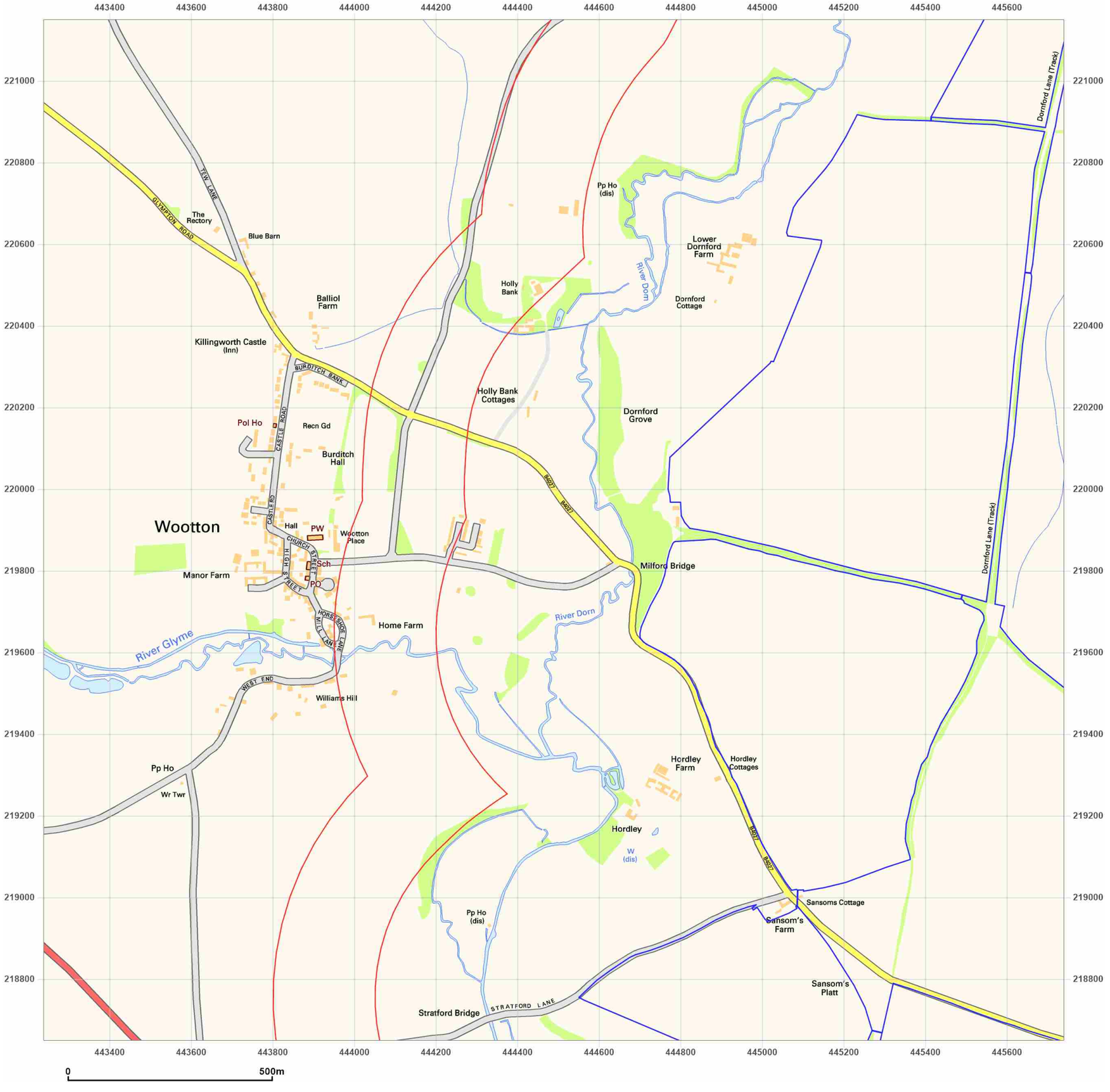
Surveyed 1974
Revised 1980
Edition N/A
Copyright 1980
Levelled 1973

Powered by OS

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

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_1_2
Grid Ref: 444489, 219900

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

N
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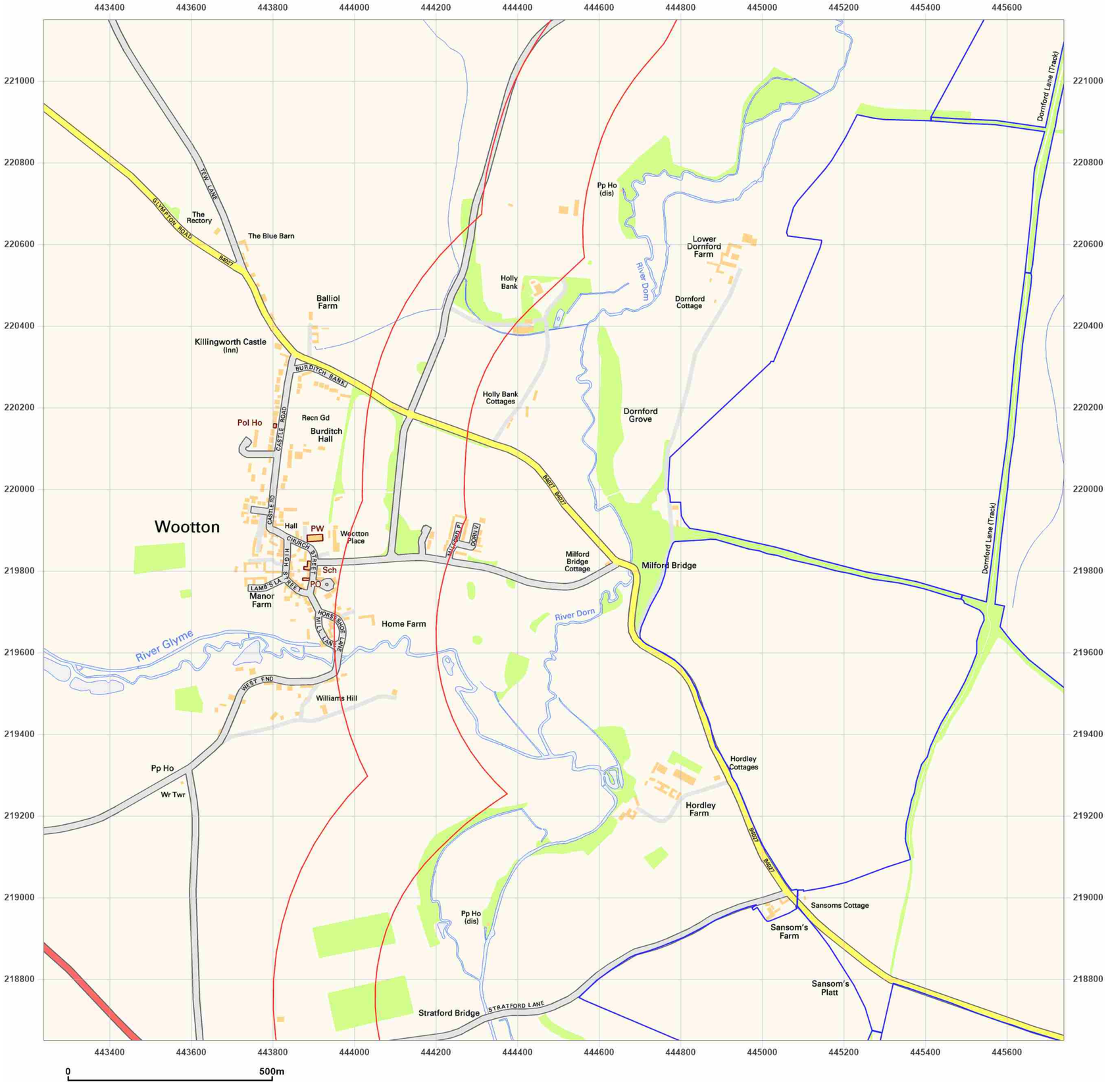
2001

Powered by OS

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

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_1_2
Grid Ref: 444489, 219900

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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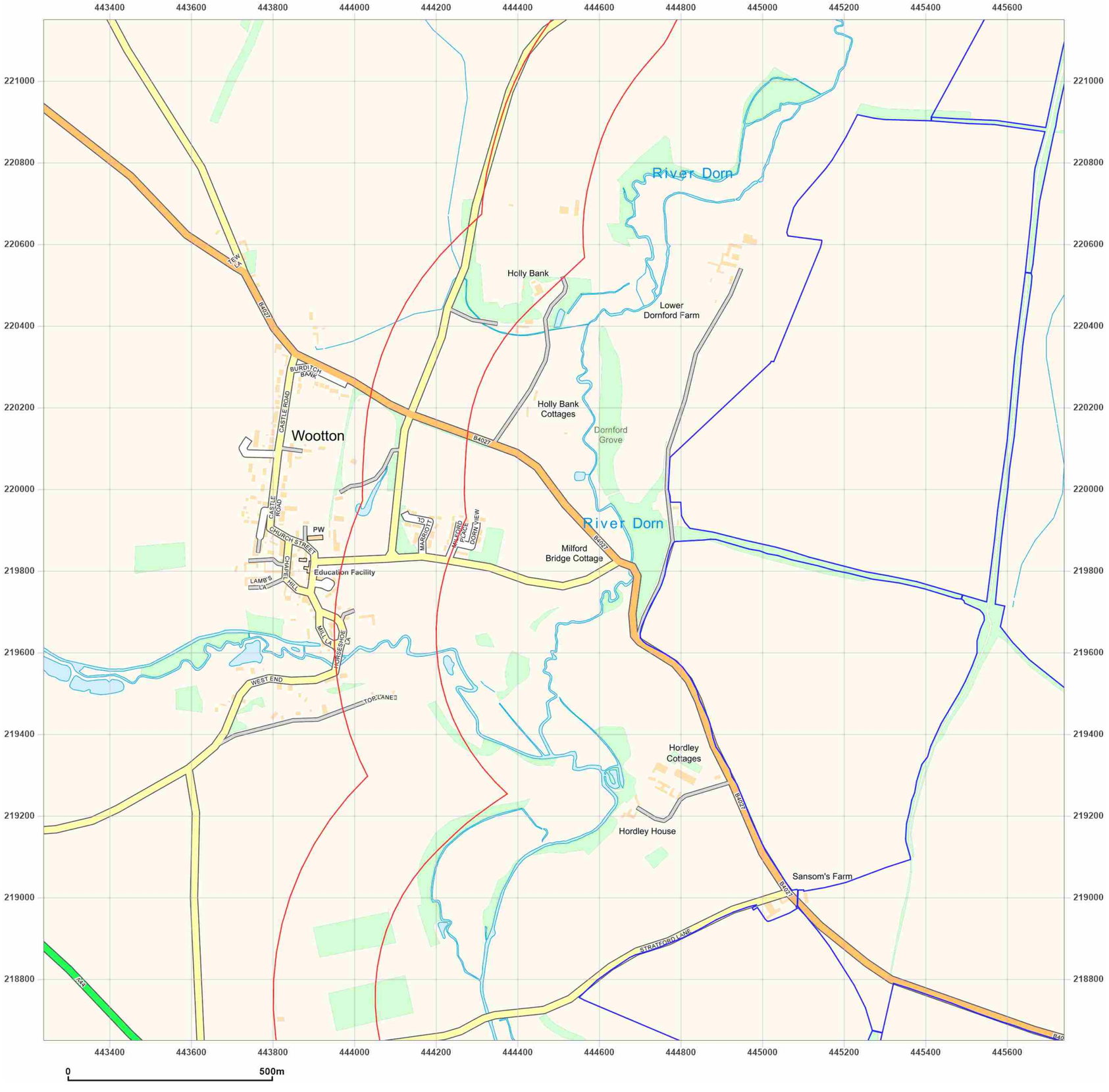
2010

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

Production date: 24 May 2022

Map legend available at:



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_1_2
Grid Ref: 444489, 219900

Map Name: National Grid

Map date: 2022

Scale: 1:10,000

Printed at: 1:10,000

N
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2022

Powered by OS

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

Production date: 24 May 2022

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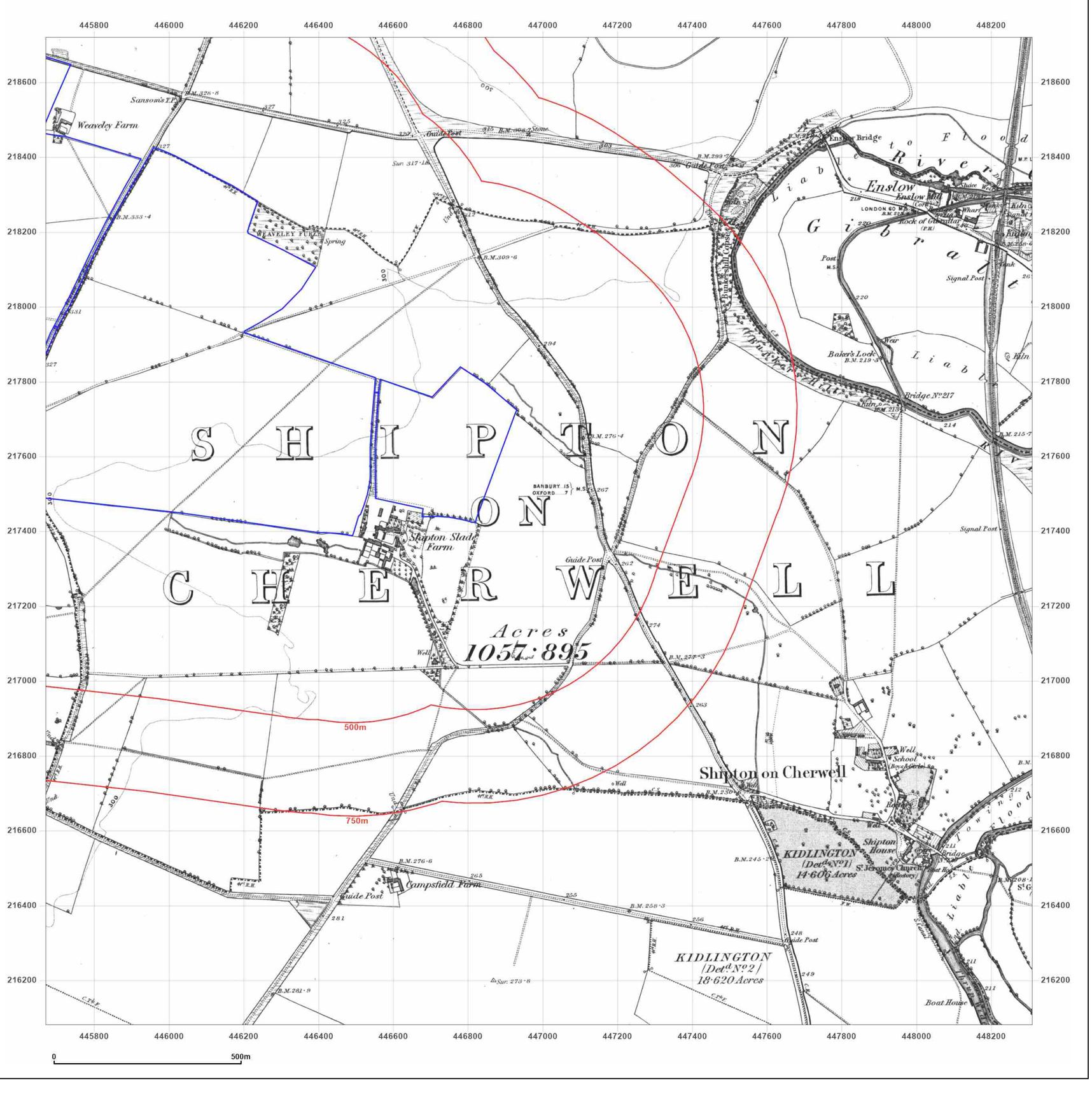


Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_2_1
Grid Ref: 446989, 217400

Map Name: County Series

Map date: **1876**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

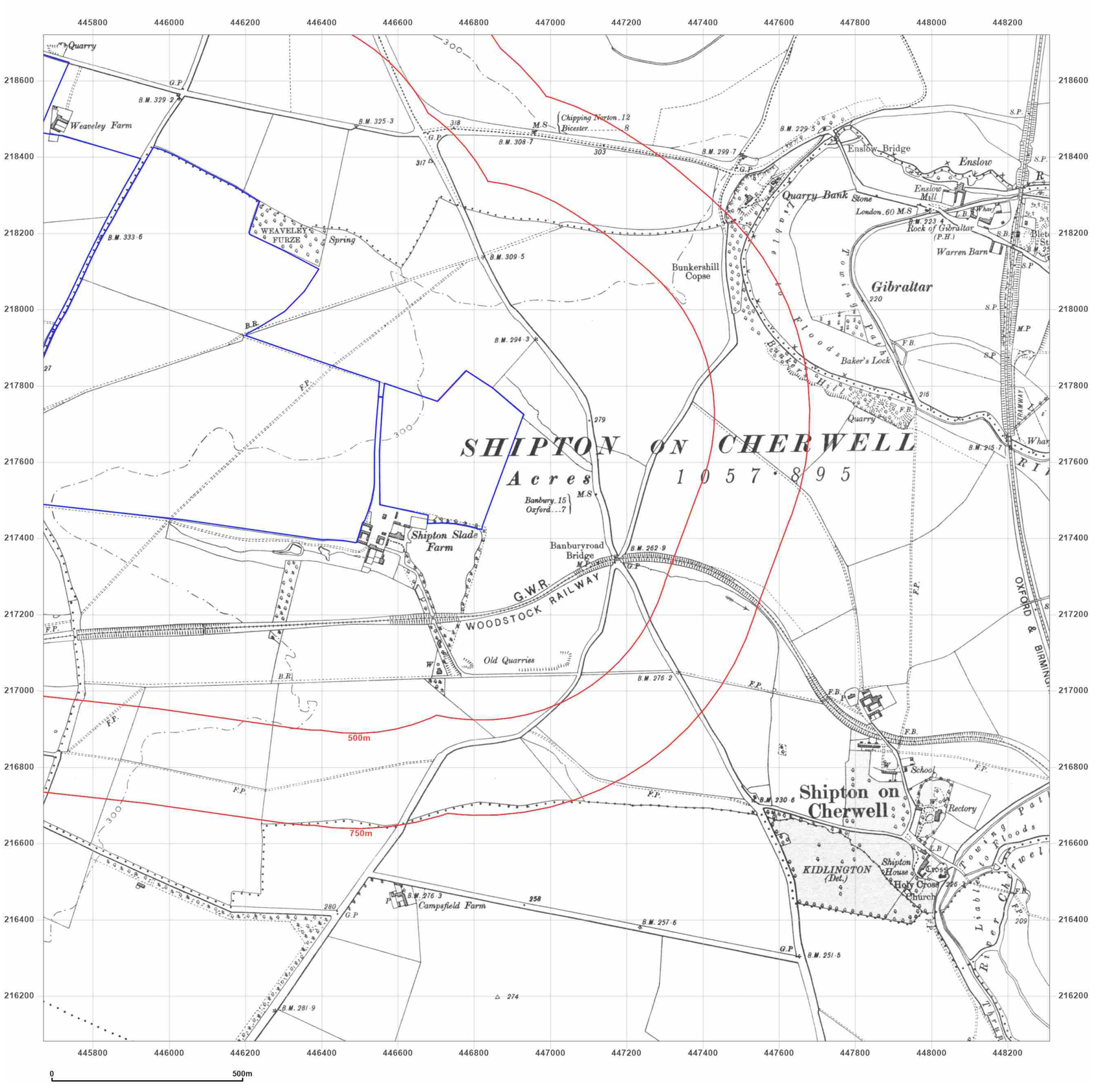
Surveyed 1876
Revised 1876
Edition N/A
Copyright N/A
Levelled N/A

Powered by OS

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

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_2_1
Grid Ref: 446989, 217400

Map Name: County Series

Map date: **1898**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1875
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

Powered by OS

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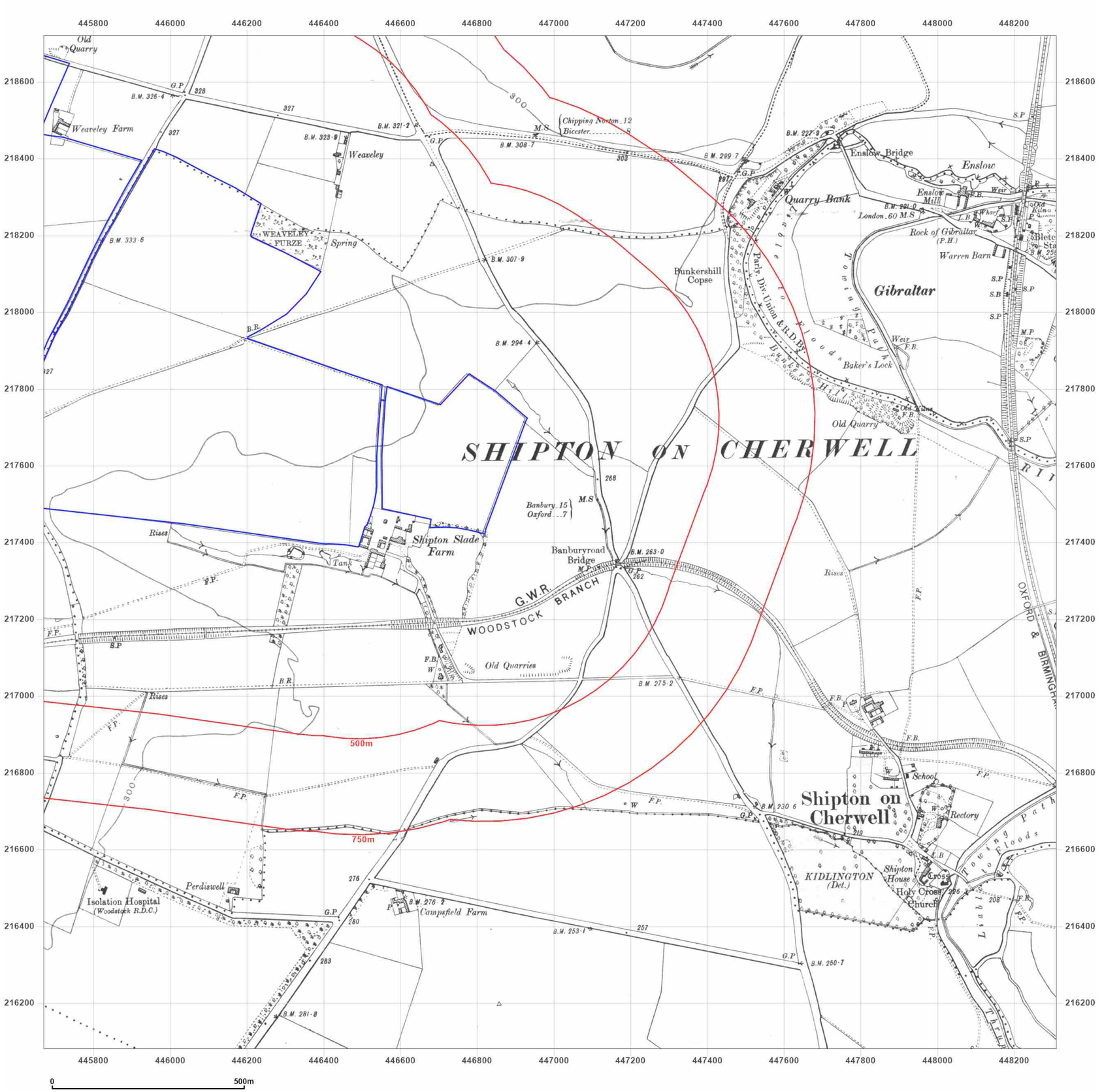
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_2_1
Grid Ref: 446989, 217400

Map Name: County Series
Map date: **1919**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

Surveyed 1875
Revised 1919
Edition N/A
Copyright N/A
Levelled N/A

Powered by

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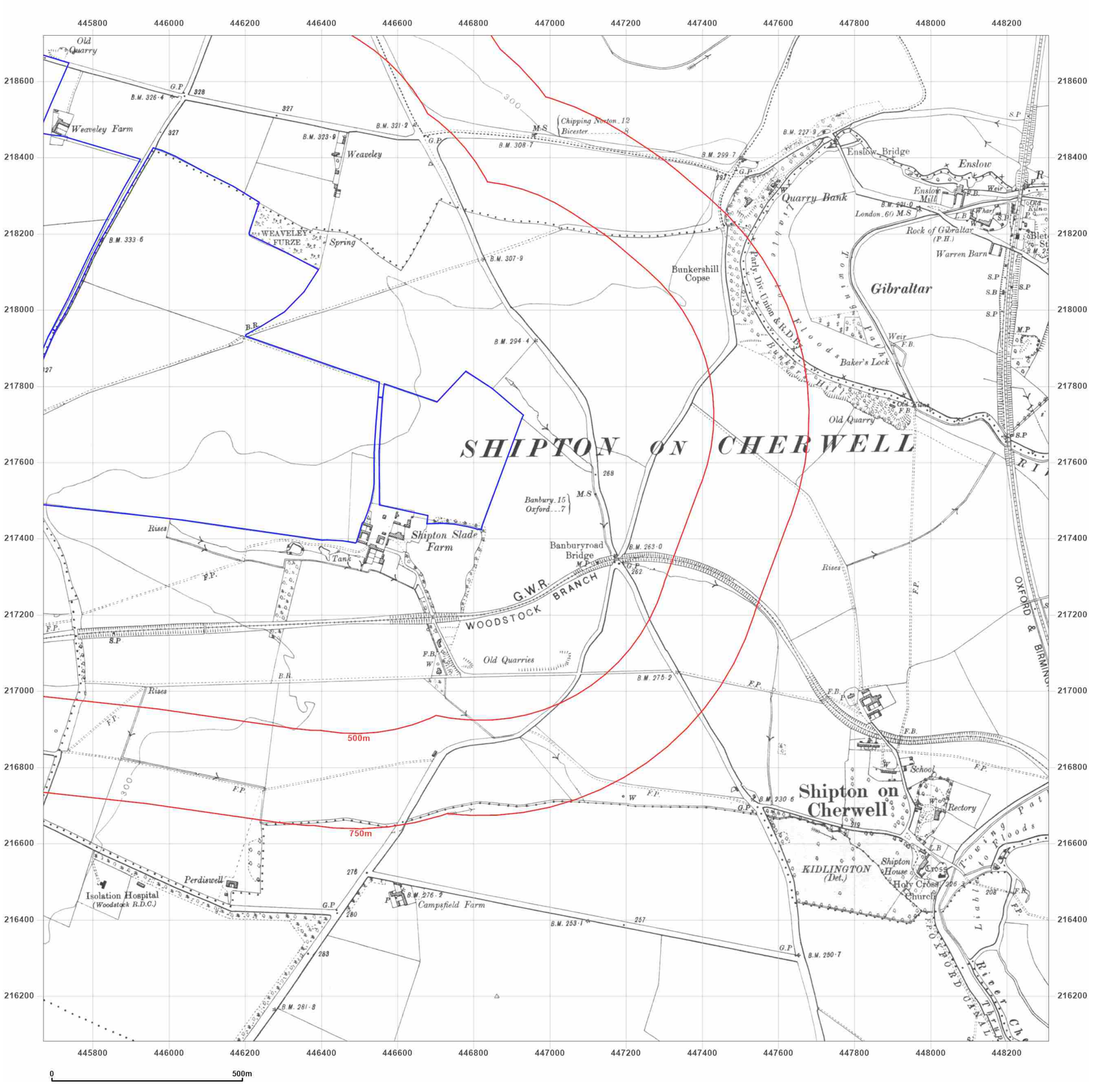
Production date: 24 May 2022

Map legend available at:



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_2_1
Grid Ref: 446989, 217400

Map Name: County Series
Map date: **1923**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

Surveyed 1875
Revised 1923
Edition N/A
Copyright N/A
Levelled N/A

Powered by

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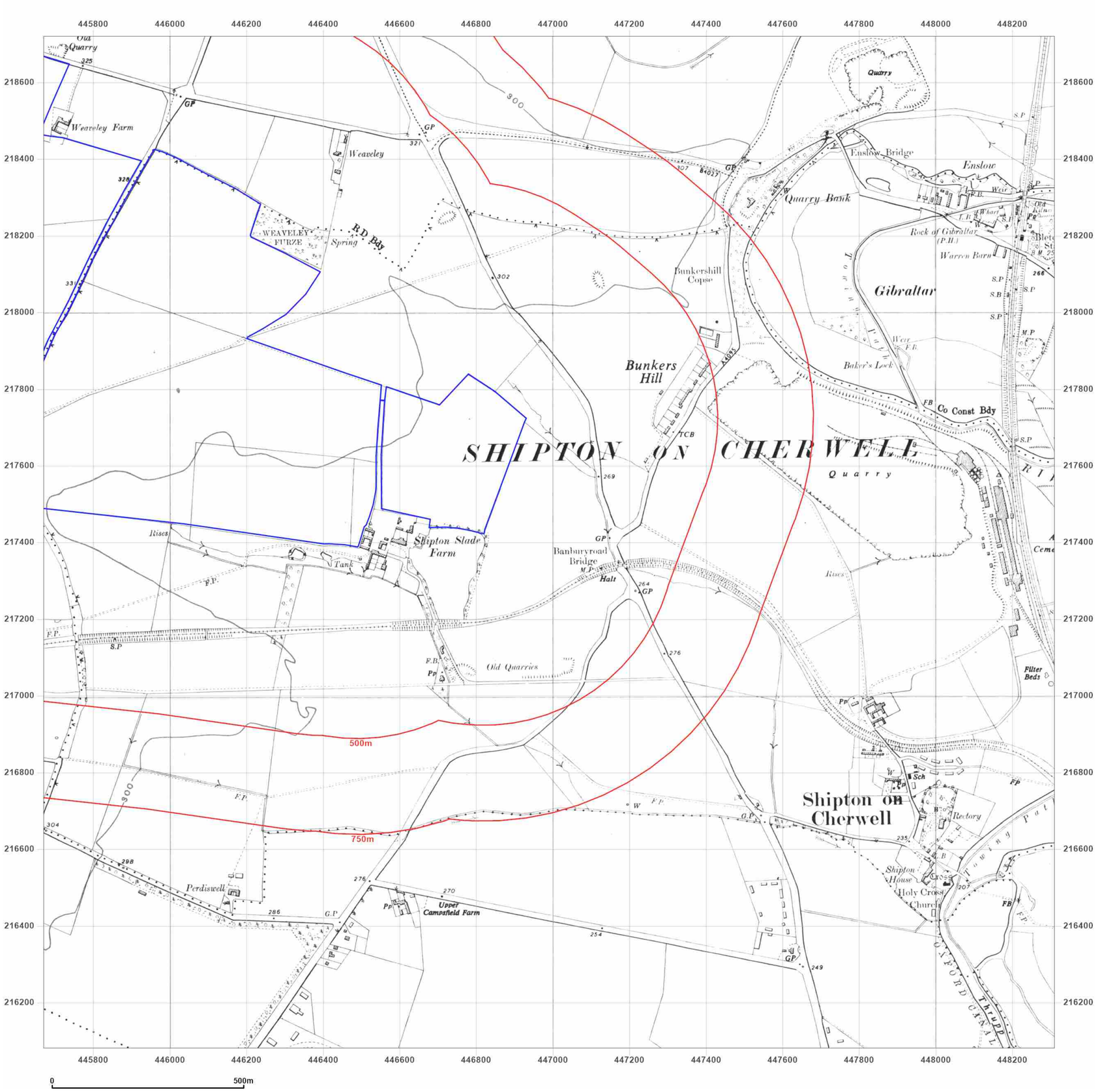
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_2_1
Grid Ref: 446989, 217400

Map Name: Provisional
Map date: **1950**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
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Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled N/A

Powered by OS

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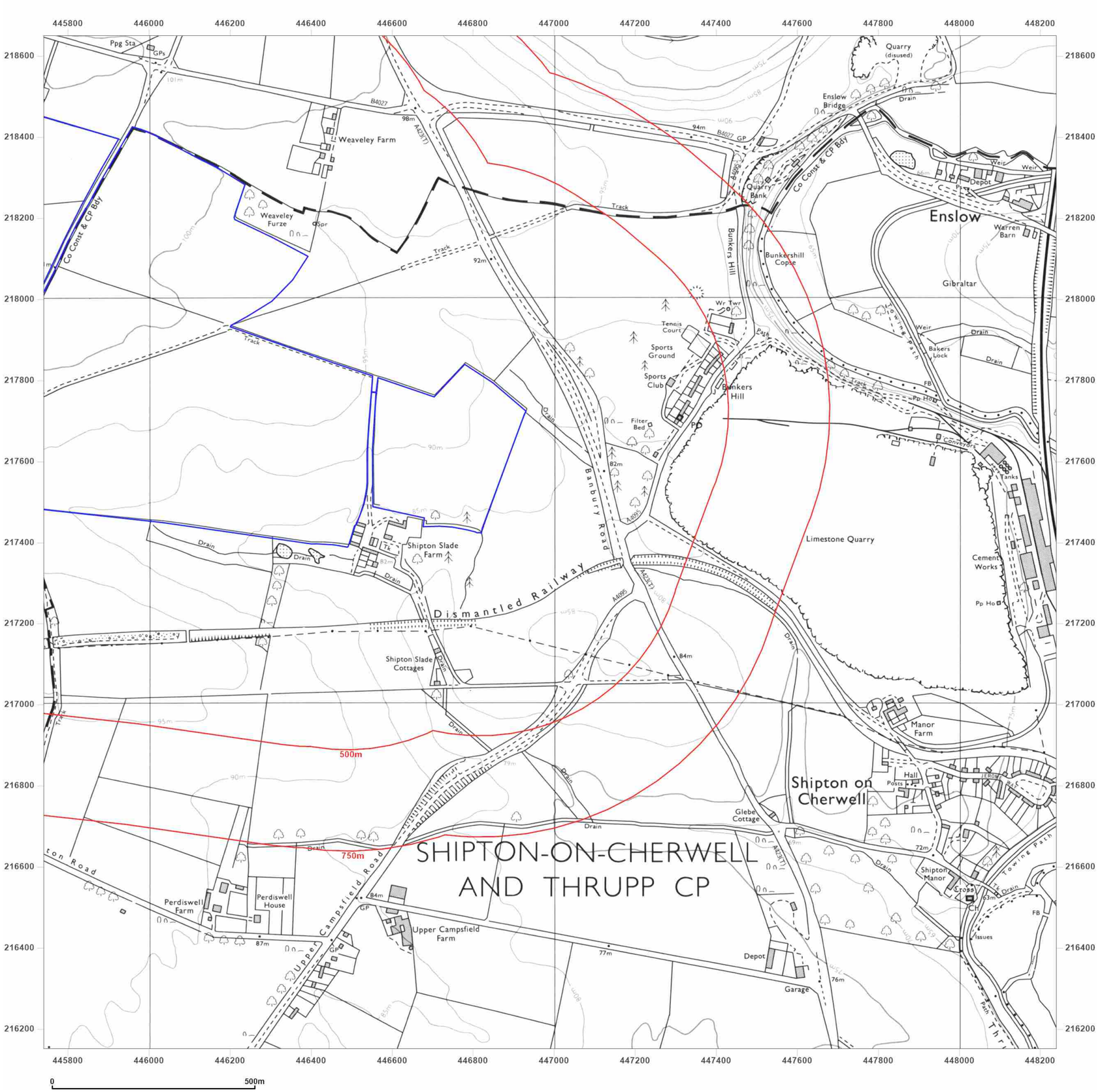
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_2_1
Grid Ref: 446989, 217400

Map Name: National Grid

Map date: **1980**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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Surveyed 1974
Revised 1980
Edition N/A
Copyright 1980
Levelled 1973

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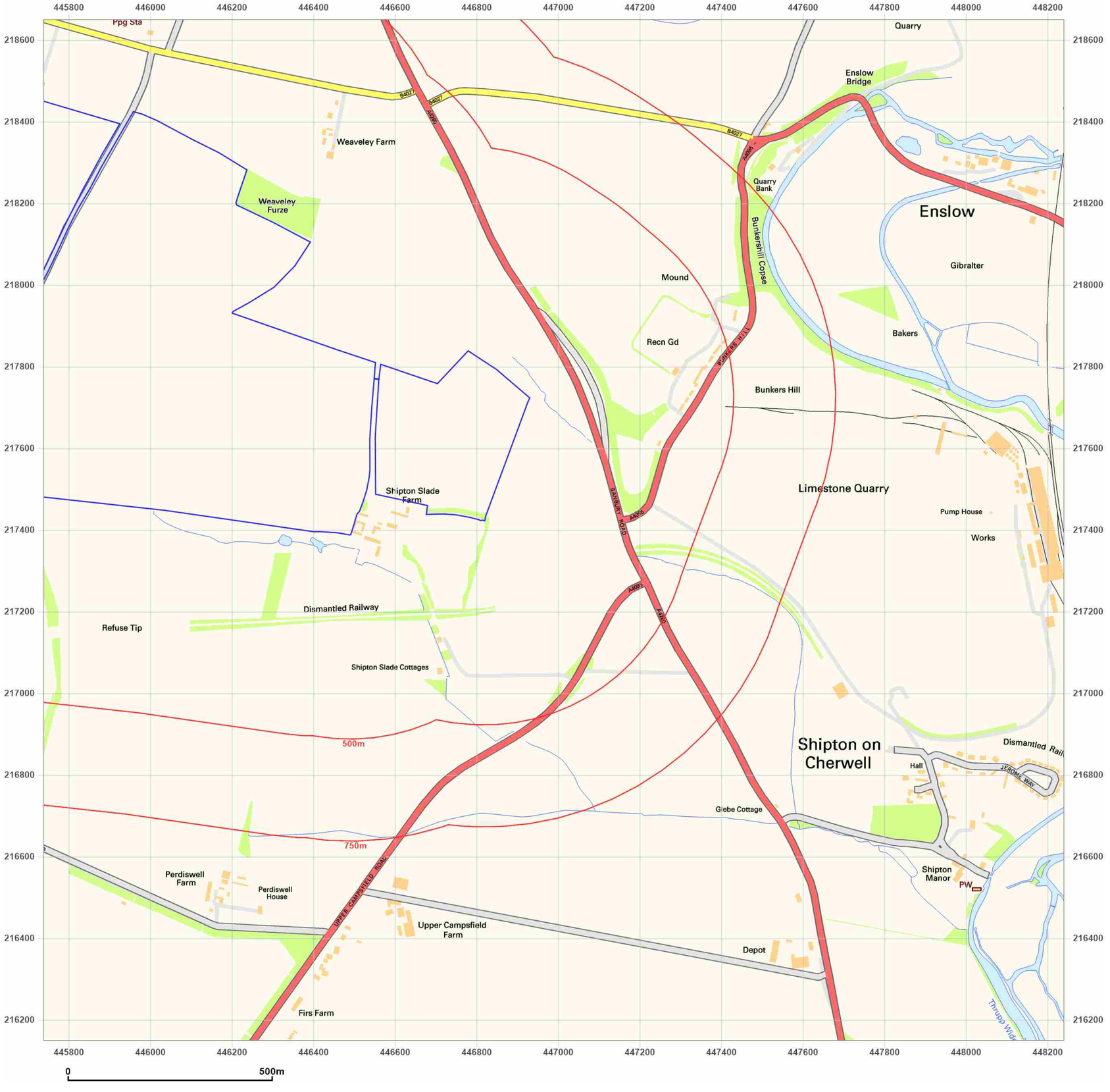
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_2_1
Grid Ref: 446989, 217400

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

N
W E
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2001

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W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]

Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_2_1
Grid Ref: 446989, 217400

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

2010

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W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]

Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_2_1
Grid Ref: 446989, 217400

Map Name: National Grid
Map date: 2022
Scale: 1:10,000
Printed at: 1:10,000

N
W E
S

2022

Powered by OS

Produced by
Groundsure Insights
T: 08444 159000
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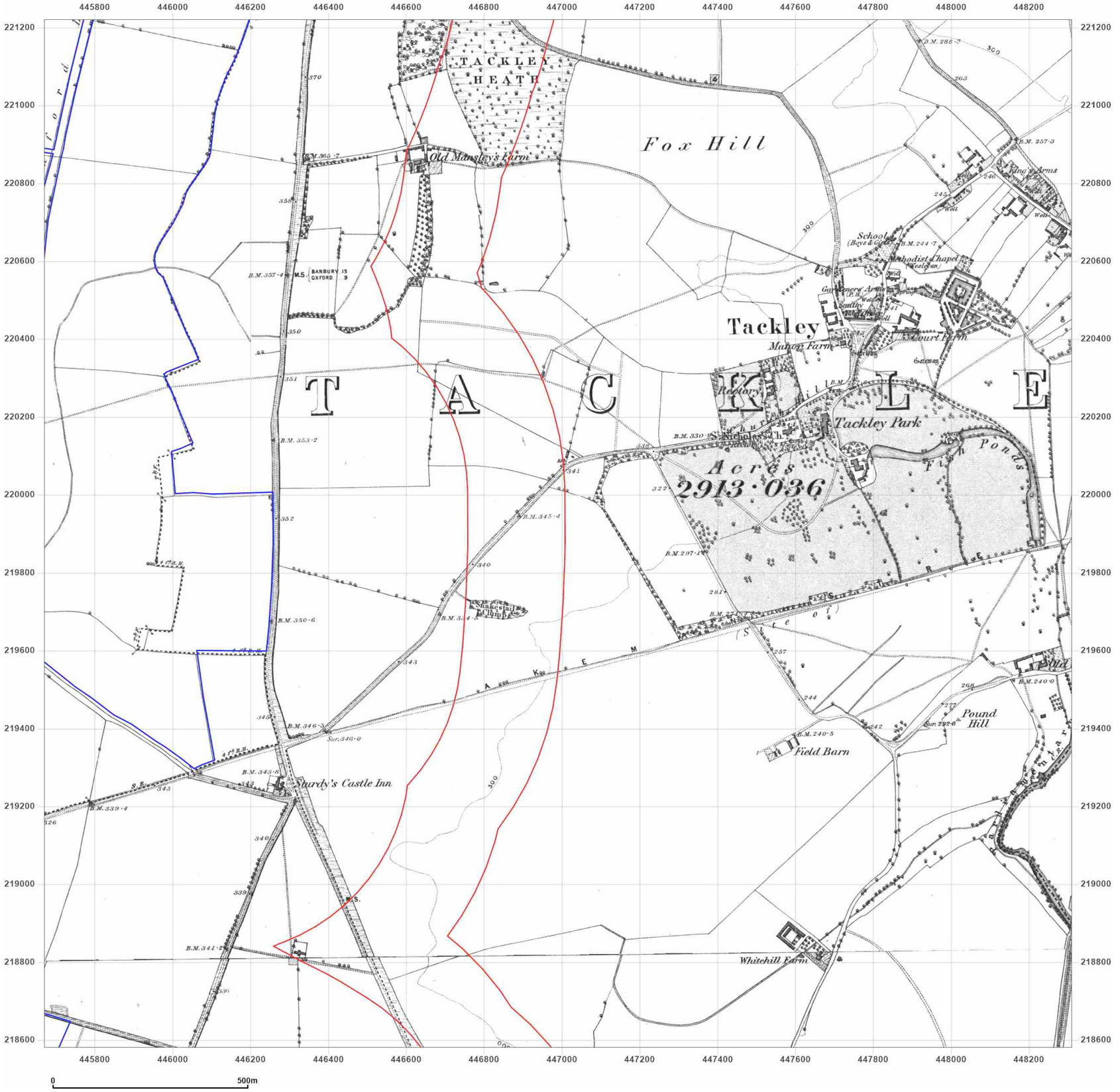
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at:



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_2_2
Grid Ref: 446989, 219900

Map Name: County Series

Map date: **1875-1876**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1875
Revised 1875
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1876
Edition N/A
Copyright N/A
Levelled N/A

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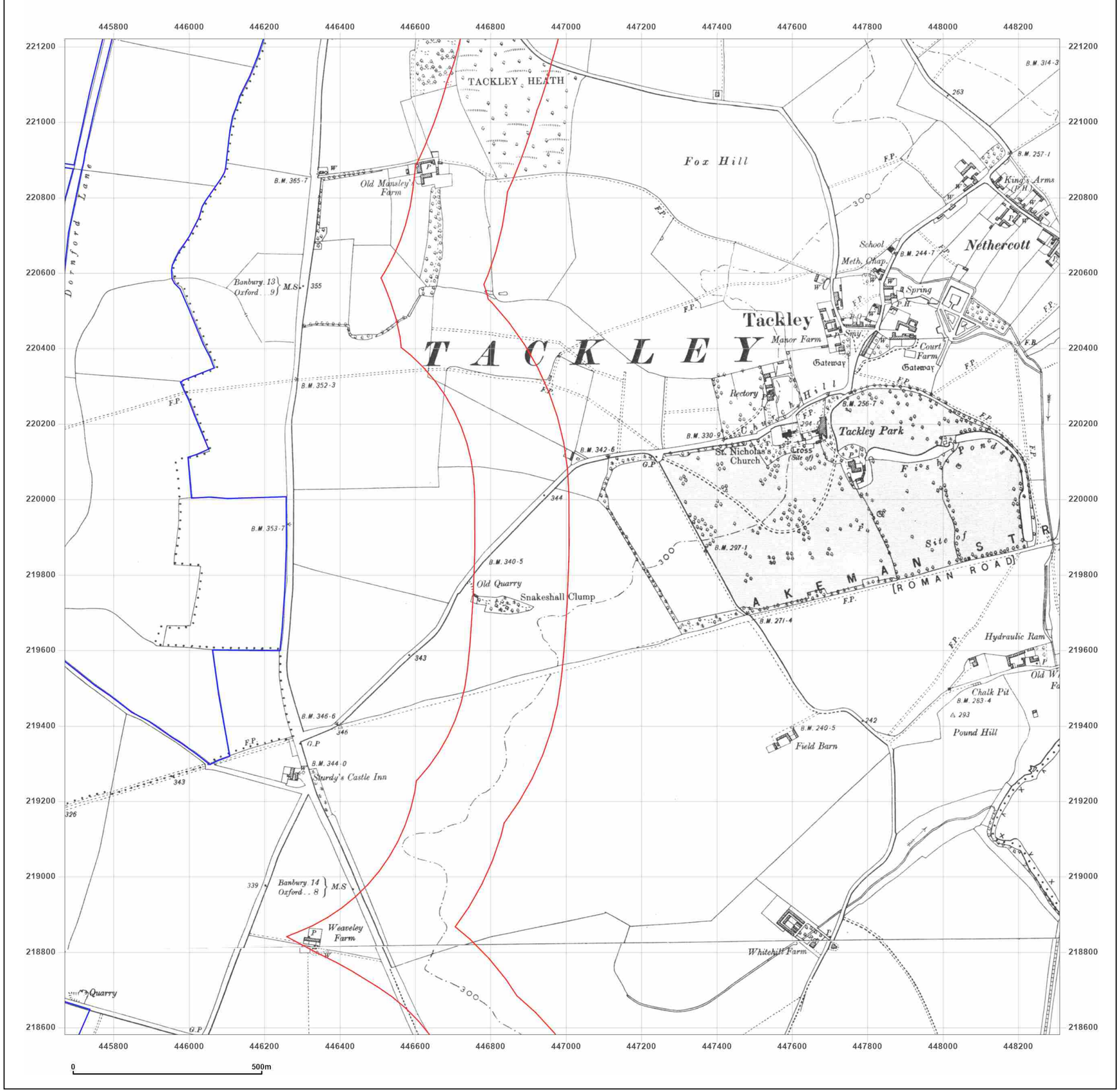
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_2_2
Grid Ref: 446989, 219900

Map Name: County Series

Map date: **1898**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1879
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1875
~~Revised 1898~~
Edition N/A
Copyright N/A
Levelled N/A

Powered by OS

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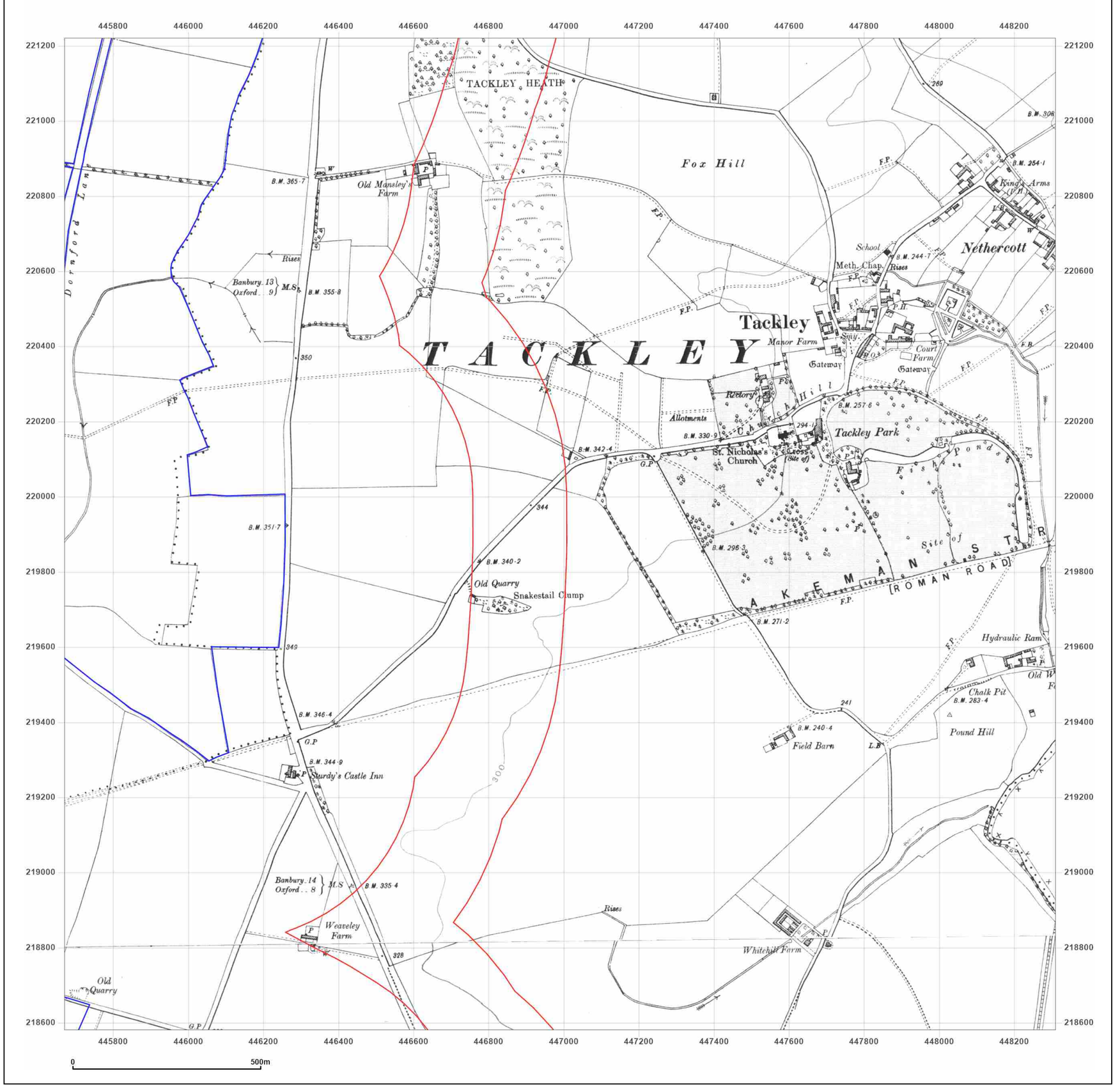
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_2_2
Grid Ref: 446989, 219900

Map Name: County Series

Map date: **1919-1923**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1880
Revised 1923
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1875
Revised 1919
Edition N/A
Copyright N/A
Levelled N/A

Powered by OS

Produced by
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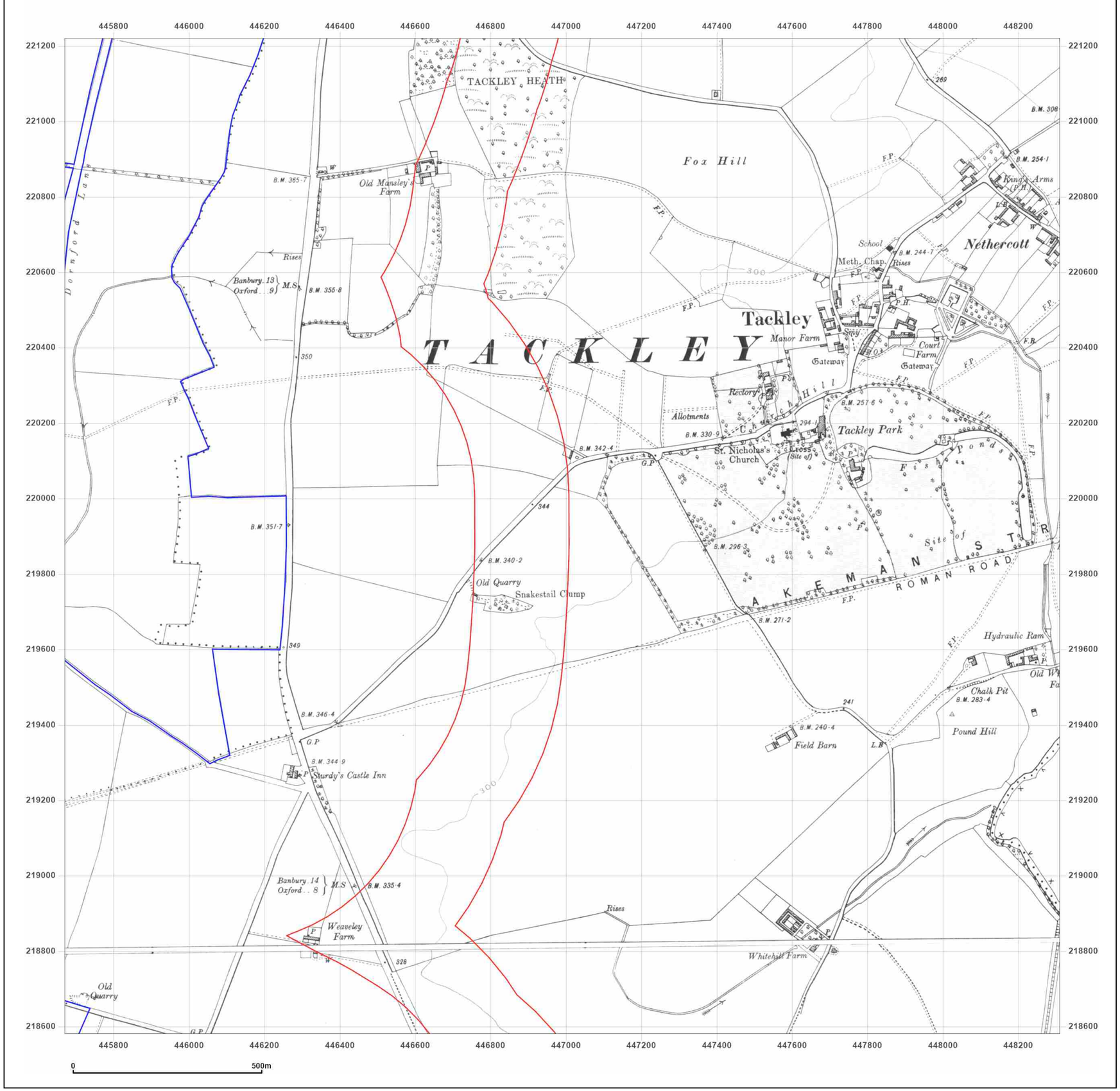
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at:



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_2_2
Grid Ref: 446989, 219900

Map Name: County Series

Map date: **1923**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1879
Revised 1923
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1875
Revised 1923
Edition N/A
Copyright N/A
Levelled N/A

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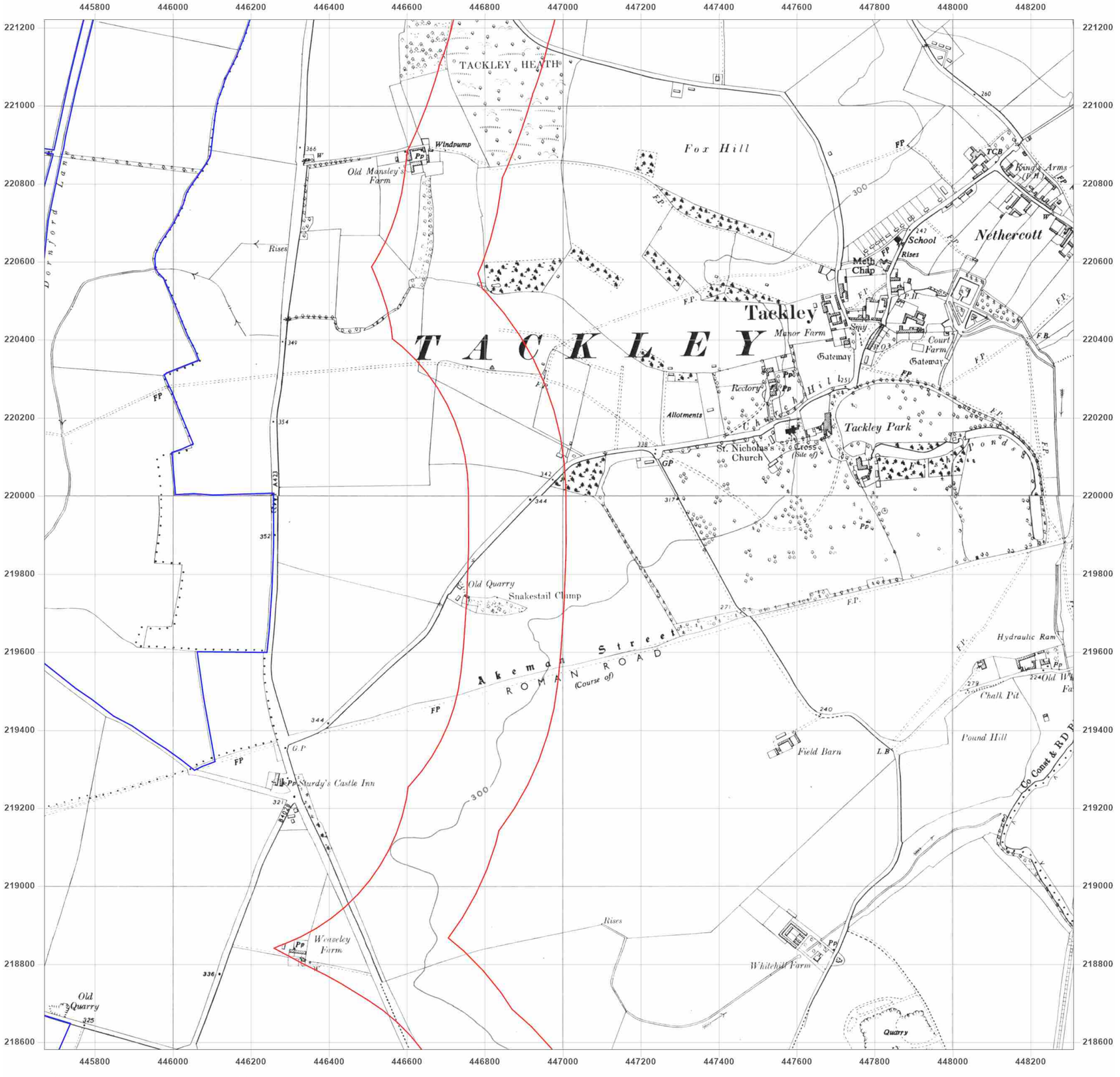
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

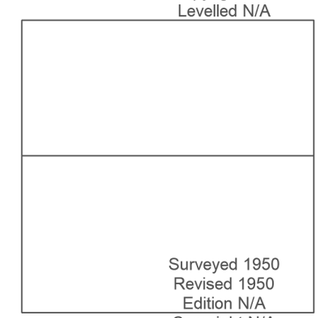
North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_2_2
Grid Ref: 446989, 219900

Map Name: Provisional
Map date: **1950**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

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



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Produced by
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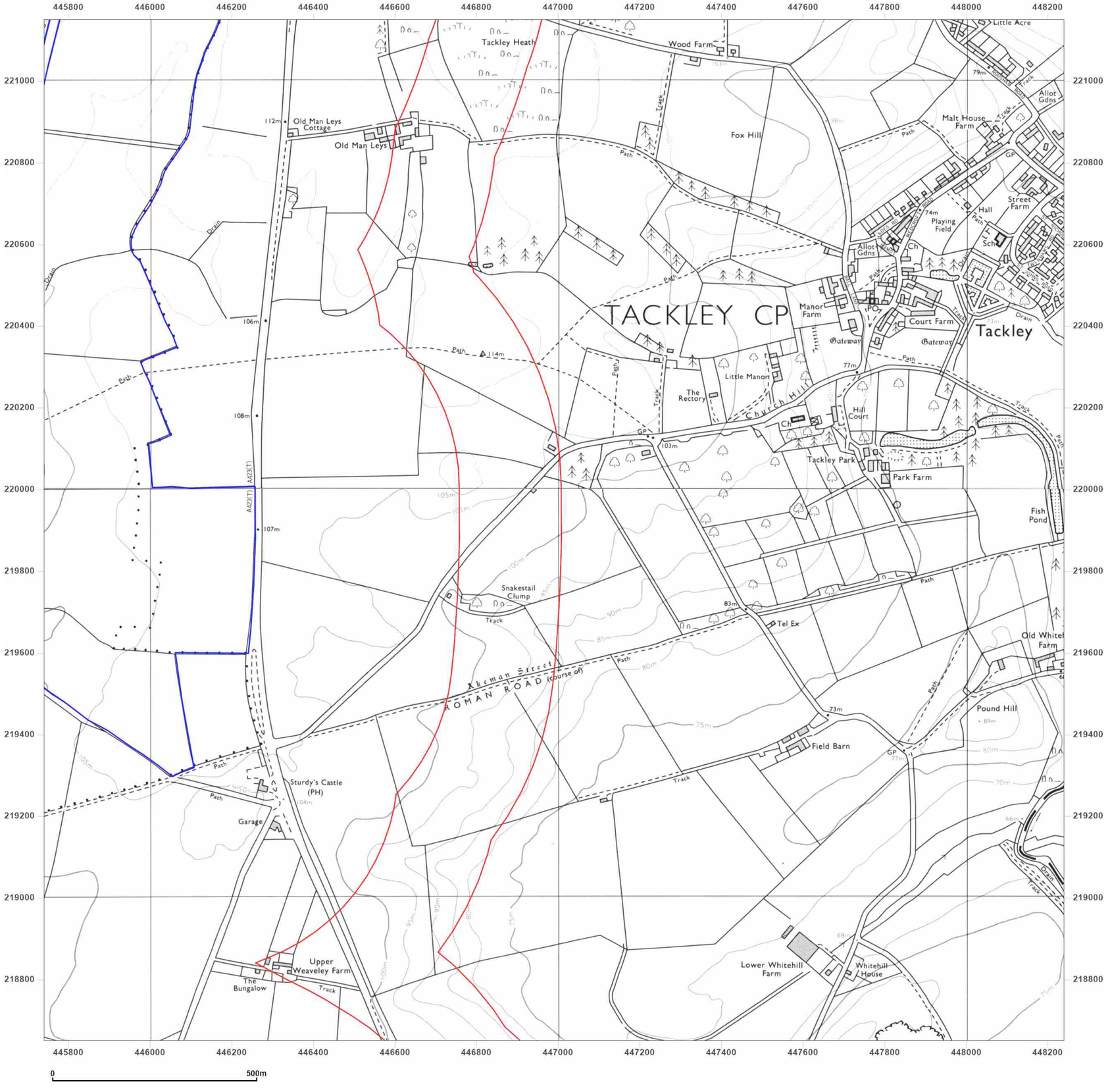
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at:



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_2_2
Grid Ref: 446989, 219900

Map Name: National Grid

Map date: **1980**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1974
Revised 1980
Edition N/A
Copyright 1980
Levelled 1973

Surveyed 1974
Revised 1980
Edition N/A
Copyright 1980
Levelled 1973

Powered by

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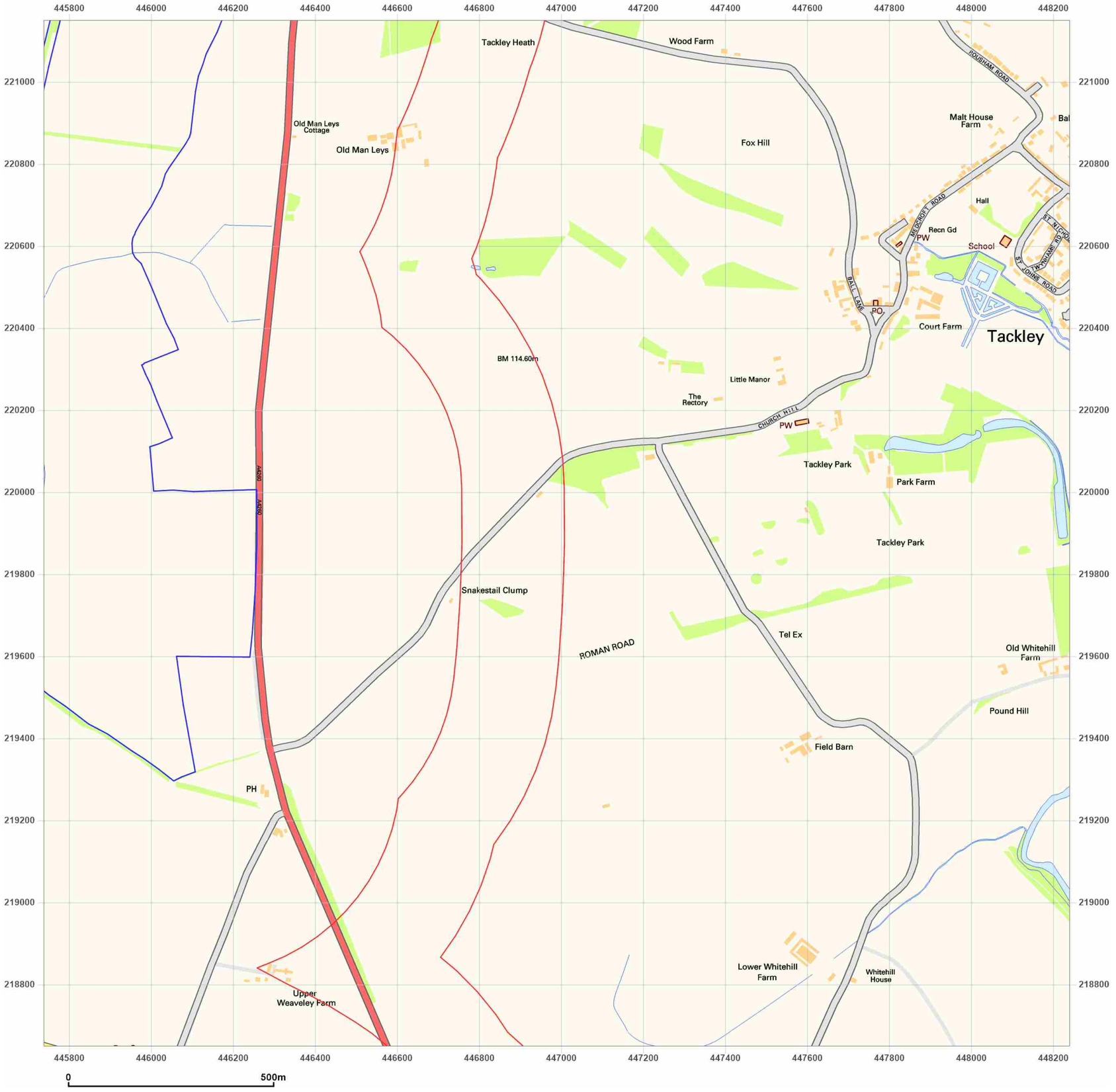
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_2_2
Grid Ref: 446989, 219900

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

N
W E
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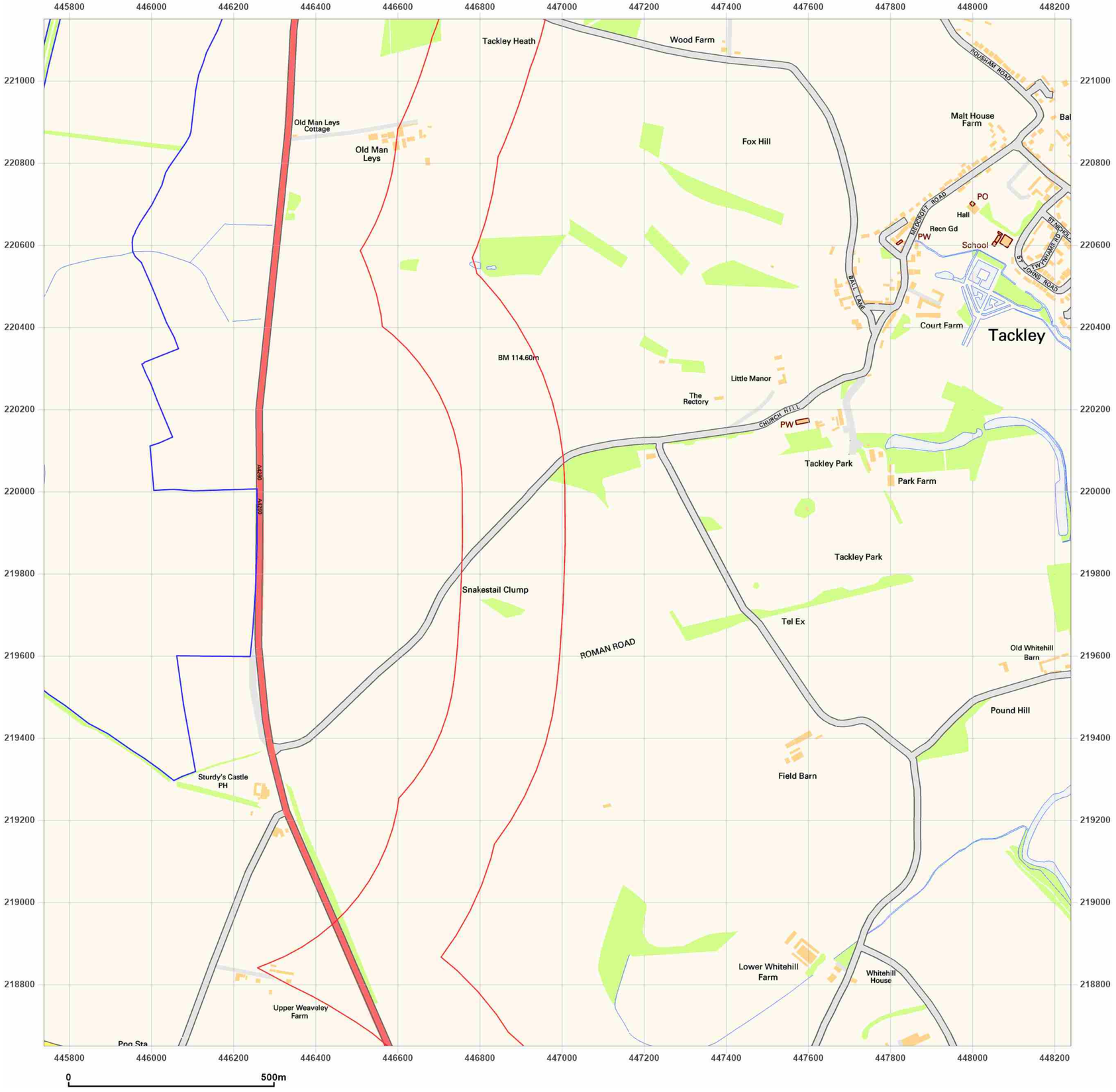
2001

Powered by OS

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

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_2_2
Grid Ref: 446989, 219900

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

N
W E
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2010

Powered by OS

Produced by
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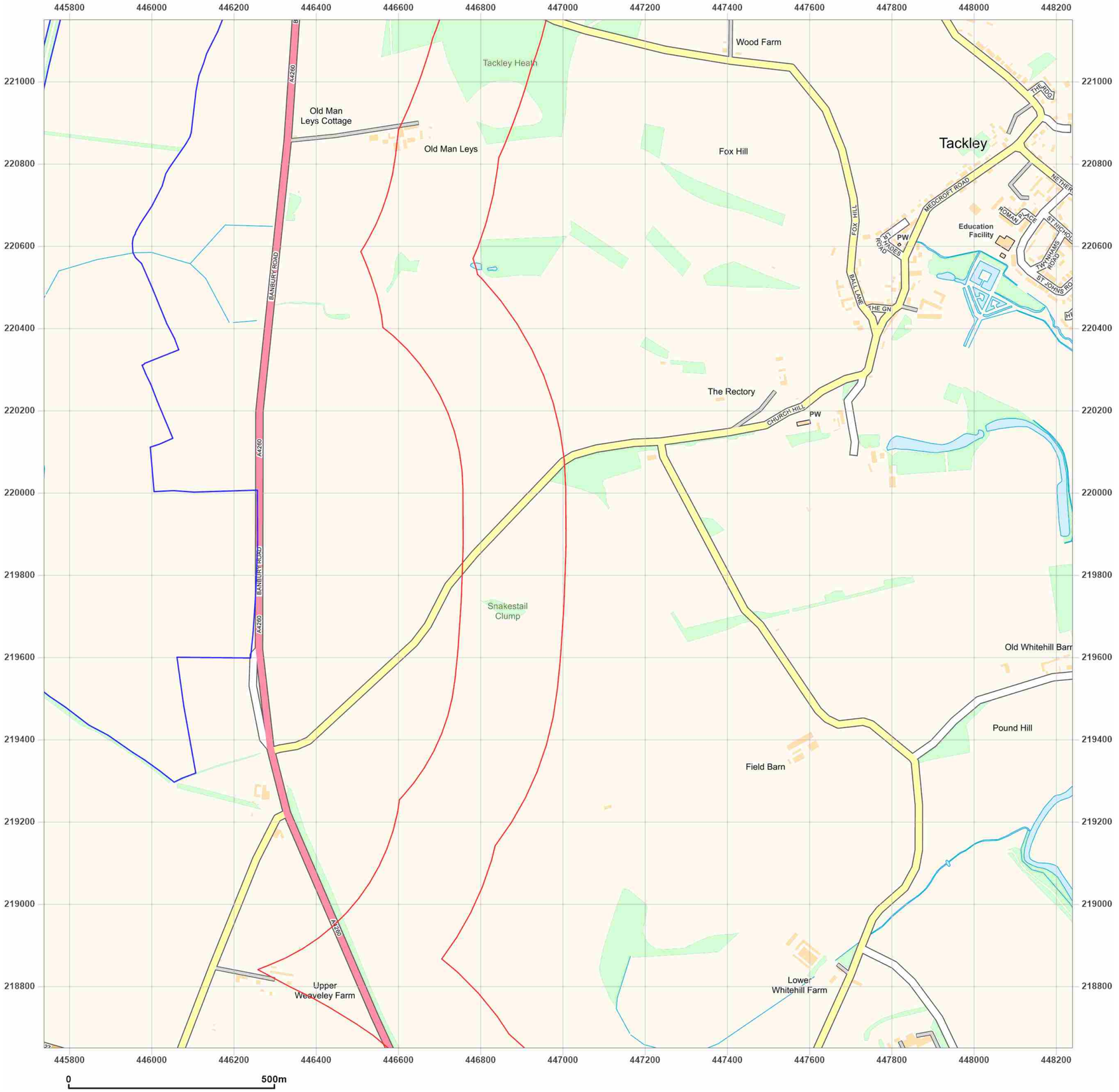
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at:



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_SS_2_2
Grid Ref: 446989, 219900

Map Name: National Grid
Map date: 2022
Scale: 1:10,000
Printed at: 1:10,000

N
W E
S

2022

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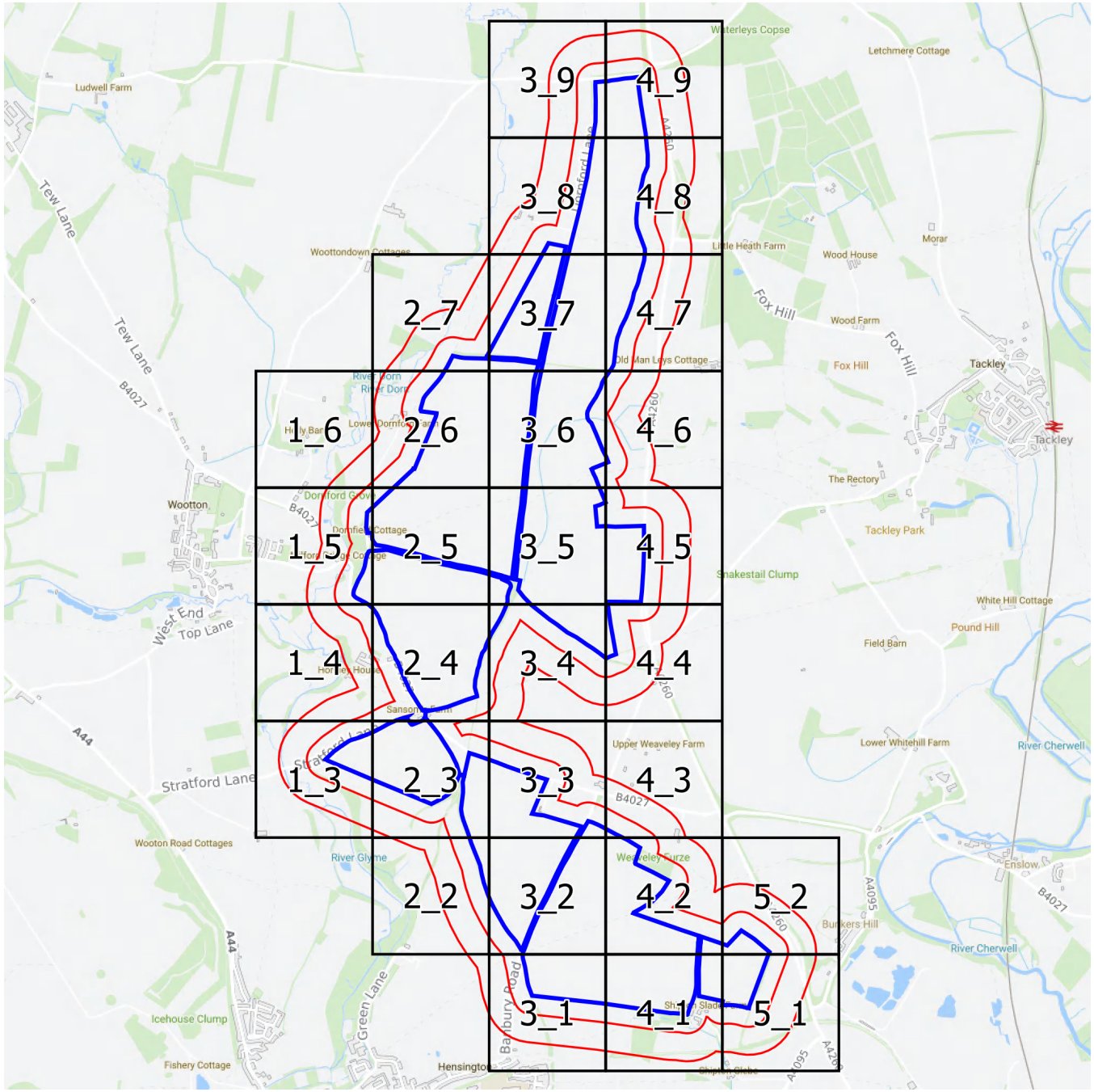
Production date: 24 May 2022

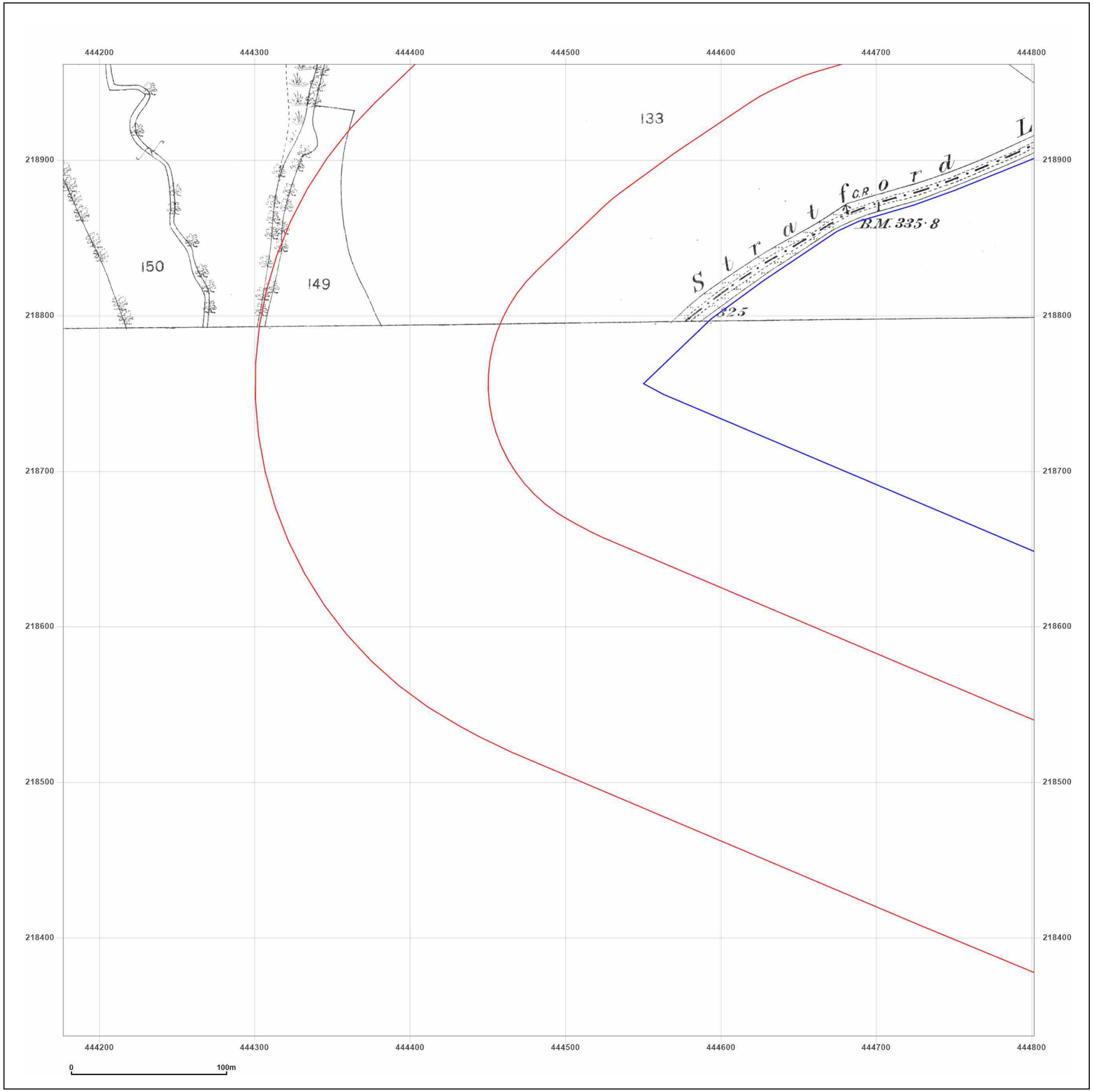
Map legend available at:



Groundsure INSIGHTS

1:2,500 Scale Grid Index

N
W
E
S



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_1_3
Grid Ref: 444489, 218649

Map Name: County Series

Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

Powered by OS

Produced by
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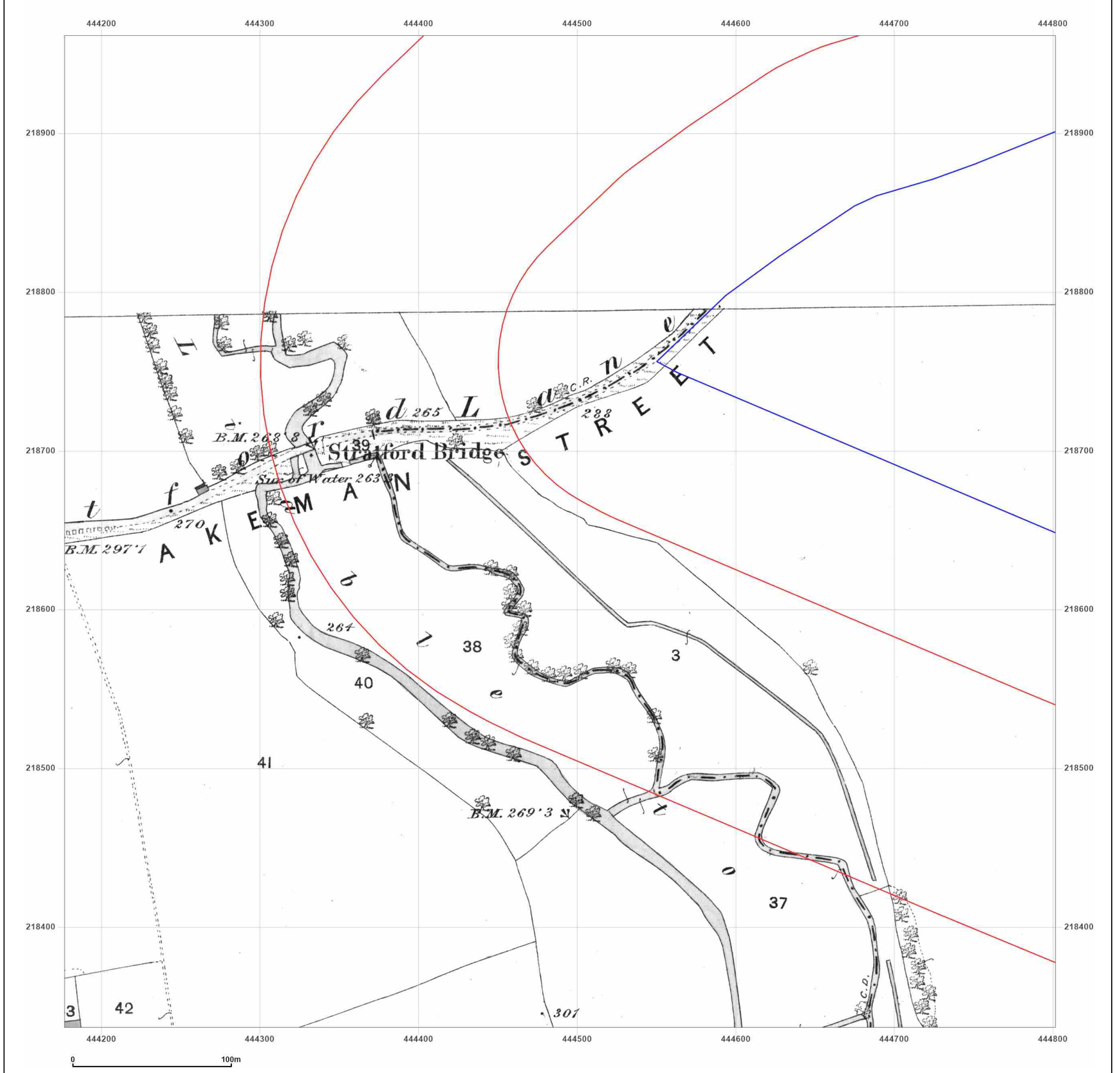
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_1_3
Grid Ref: 444489, 218649

Map Name: County Series

Map date: **1886**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1886
Revised 1886
Edition N/A
Copyright N/A
Levelled N/A

Powered by

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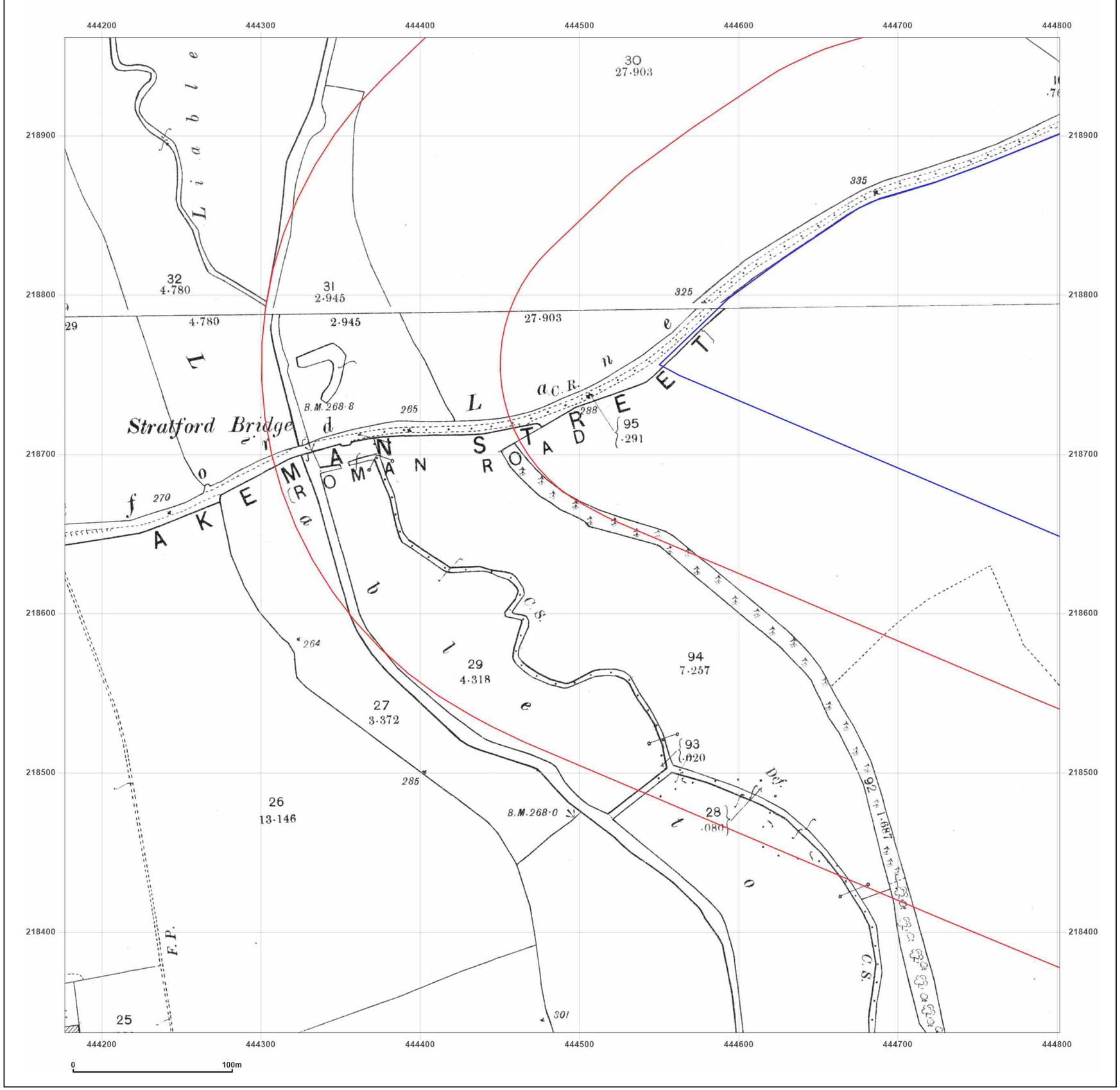
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at:



Groundsure
INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_1_3
Grid Ref: 444489, 218649

Map Name: County Series

Map date: **1898-1899**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Production date: 24 May 2022

Map legend available at:
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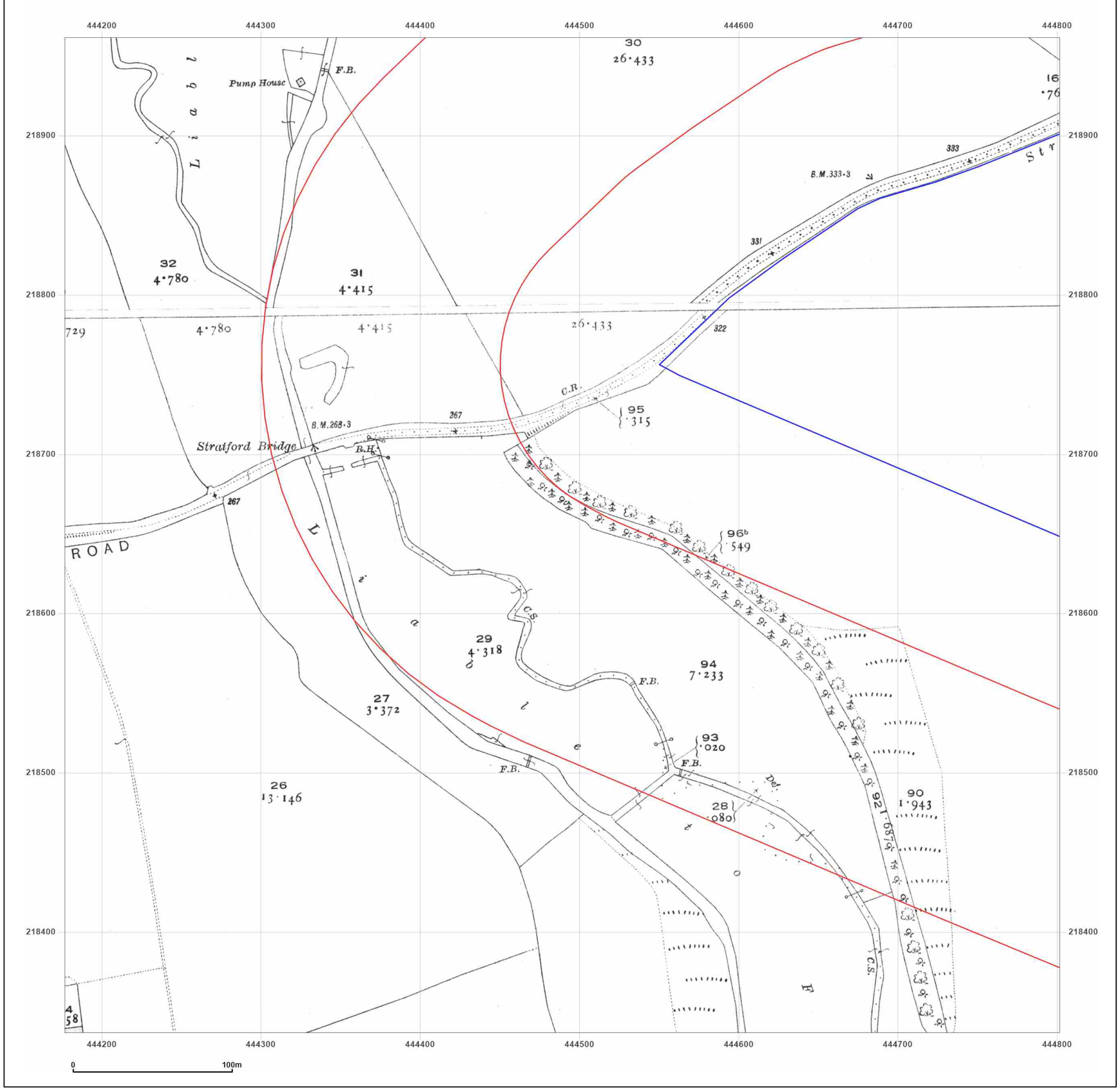


Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_1_3
Grid Ref: 444489, 218649

Map Name: County Series

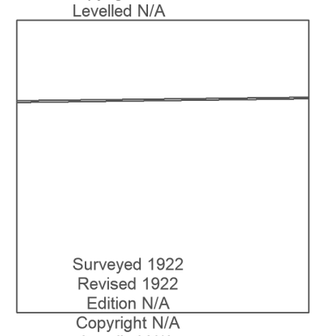
Map date: **1922**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1922
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1922
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

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E: info@groundsure.com
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]

Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_1_3
Grid Ref: 444489, 218649

Map Name: National Grid

Map date: **1974**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1972
Revised 1972
Edition N/A
Copyright 1974
Levelled 1970

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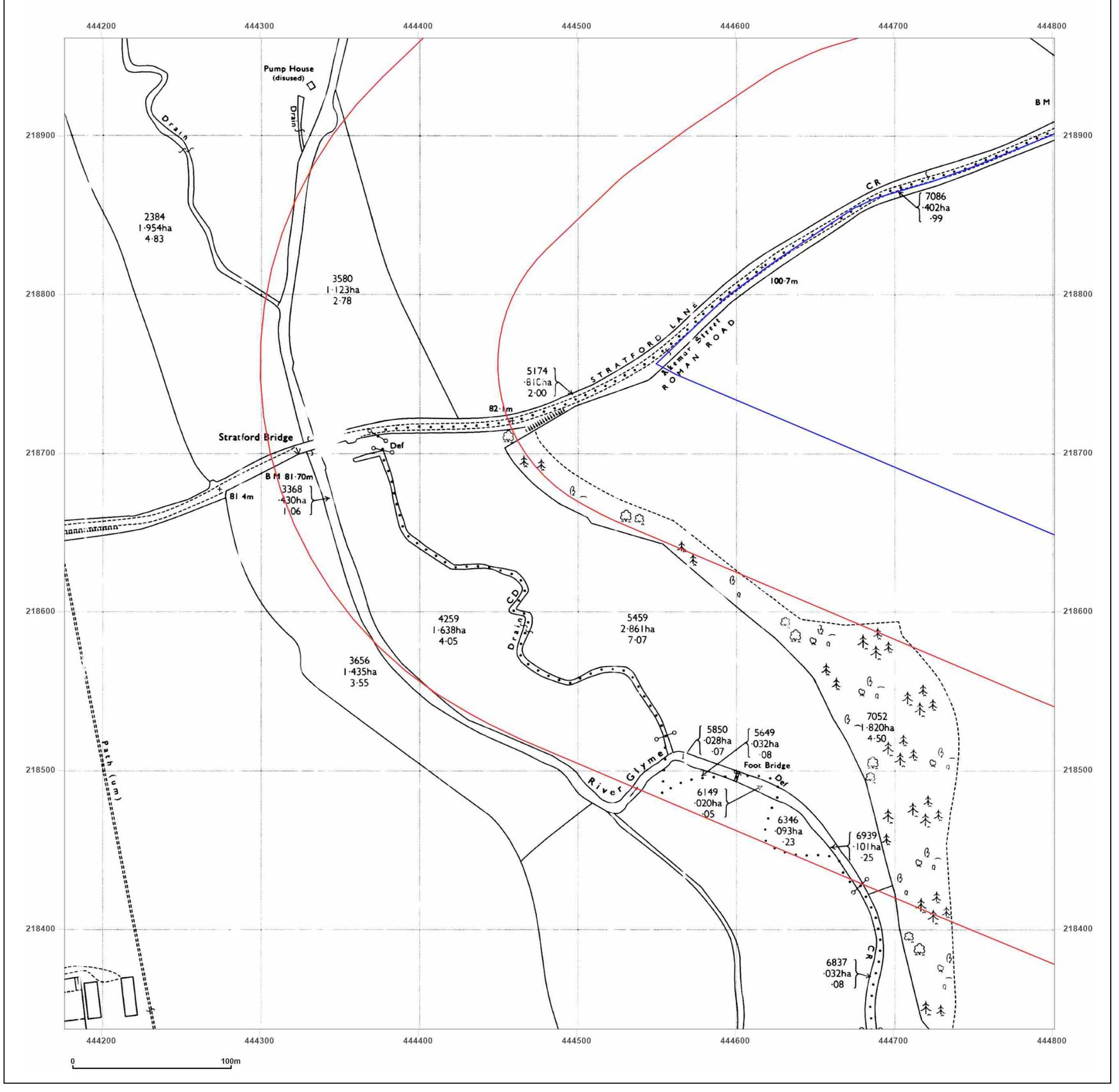
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_1_3
Grid Ref: 444489, 218649

Map Name: National Grid

Map date: **1974**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

Powered by OS

Produced by
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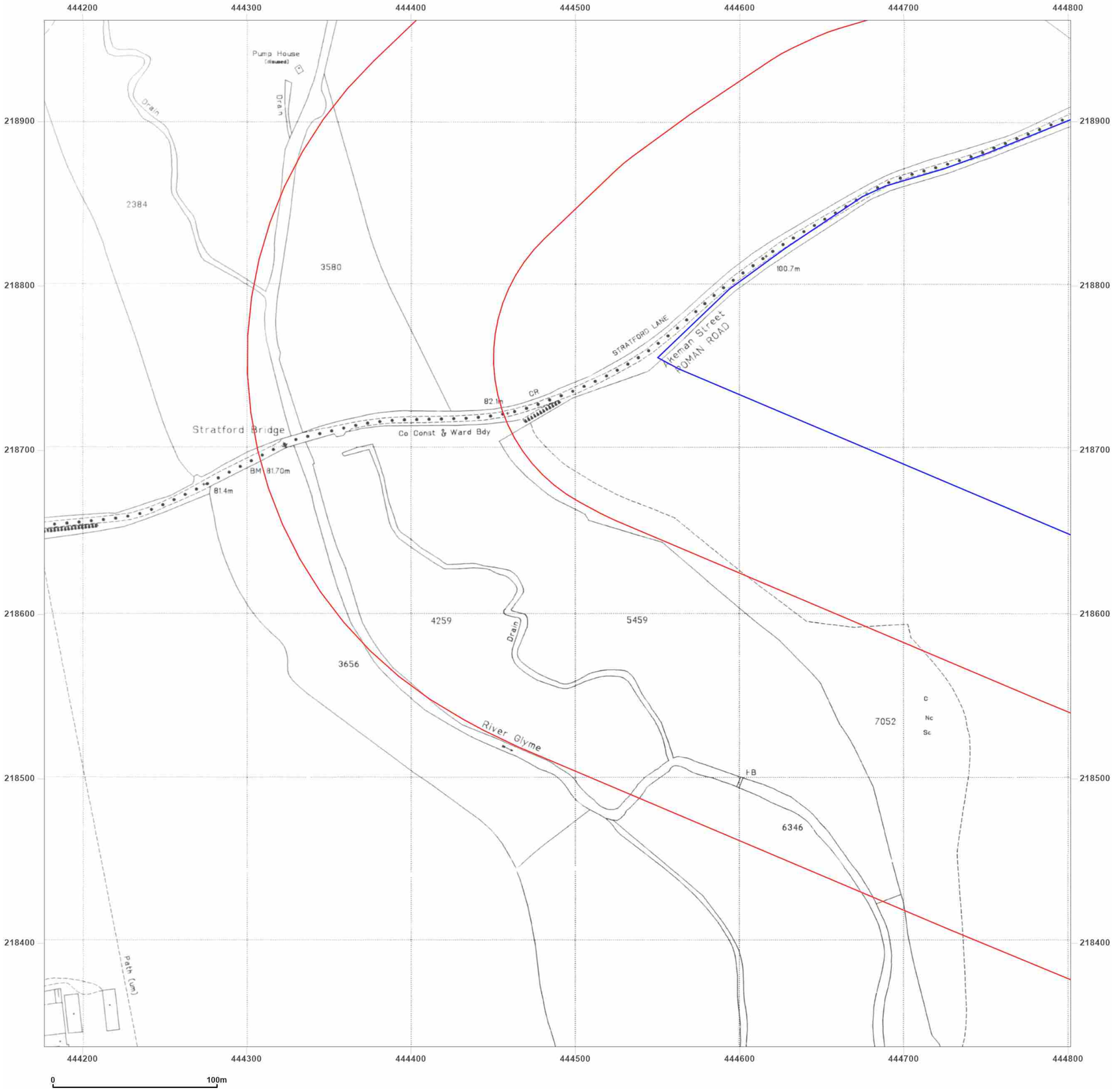
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_1_3
Grid Ref: 444489, 218649

Map Name: National Grid

Map date: **1994**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

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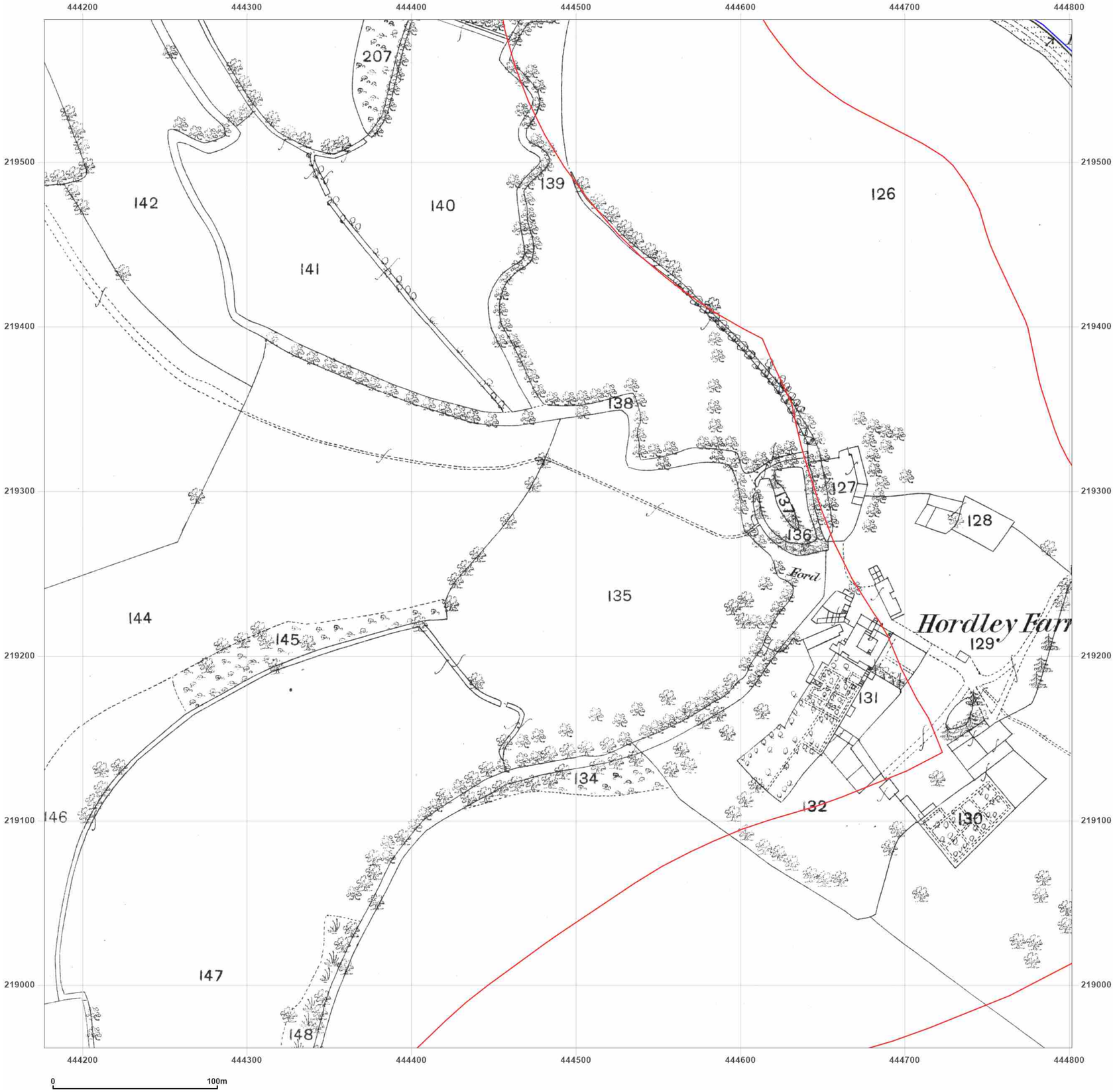
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_1_4
Grid Ref: 444489, 219274

Map Name: County Series

Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

Powered by

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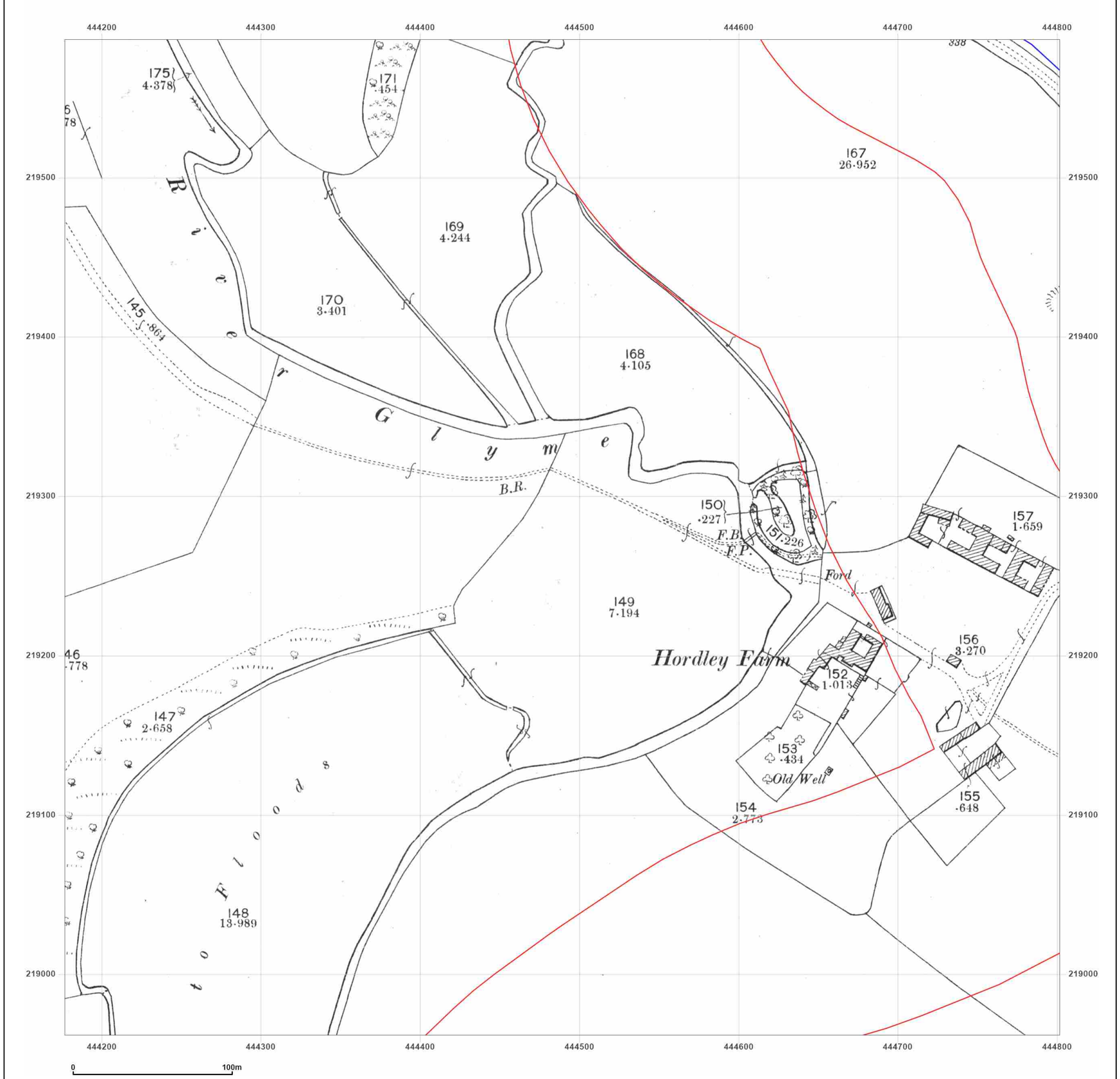
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_1_4
Grid Ref: 444489, 219274

Map Name: County Series

Map date: **1899**

Scale: 1:2,500

Printed at: 1:2,500

N
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S

Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

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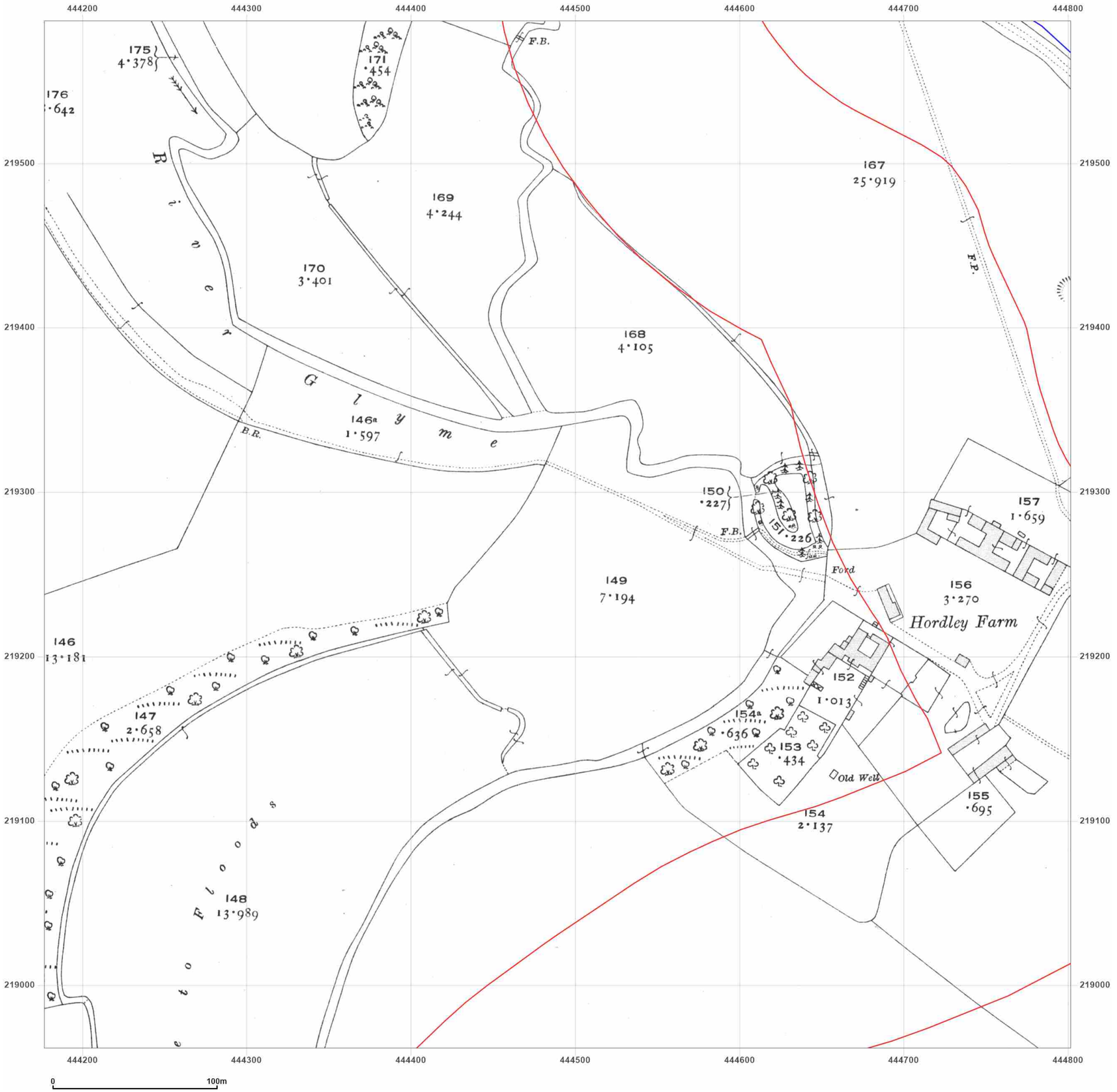
Production date: 24 May 2022

Map legend available at:



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_1_4
Grid Ref: 444489, 219274

Map Name: County Series

Map date: **1922**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1922
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

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W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]

Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_1_4
Grid Ref: 444489, 219274

Map Name: National Grid

Map date: **1974**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1972
Revised 1972
Edition N/A
Copyright 1974
Levelled 1970

Surveyed 1972
Revised 1972
Edition N/A
Copyright 1974
Levelled 1970

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Production date: 24 May 2022

Map legend available at: [redacted]

Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_1_4
Grid Ref: 444489, 219274

Map Name: National Grid

Map date: **1974**

Scale: 1:2,500

Printed at: 1:2,500

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

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

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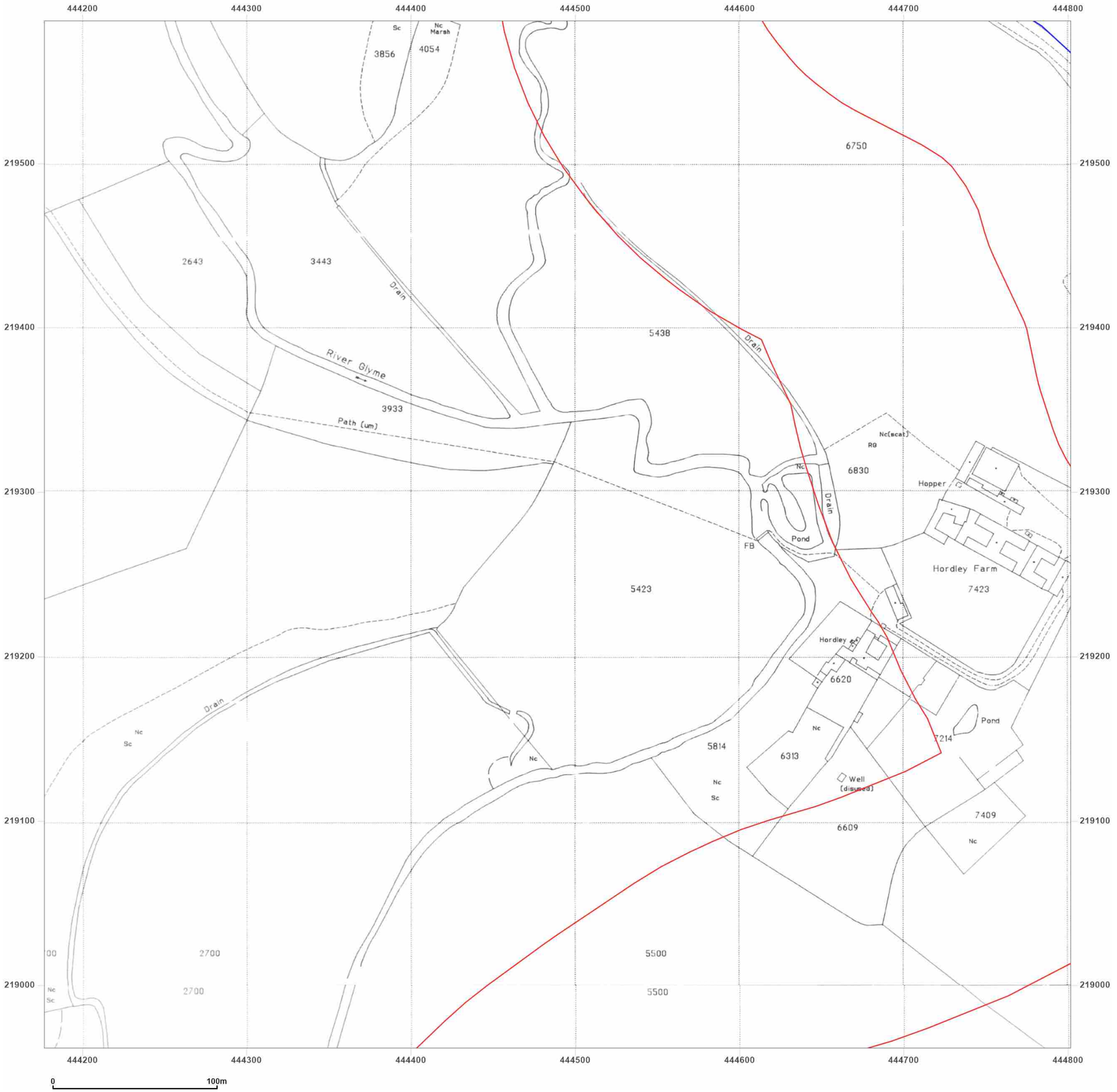
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_1_4
Grid Ref: 444489, 219274

Map Name: National Grid

Map date: **1994**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

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

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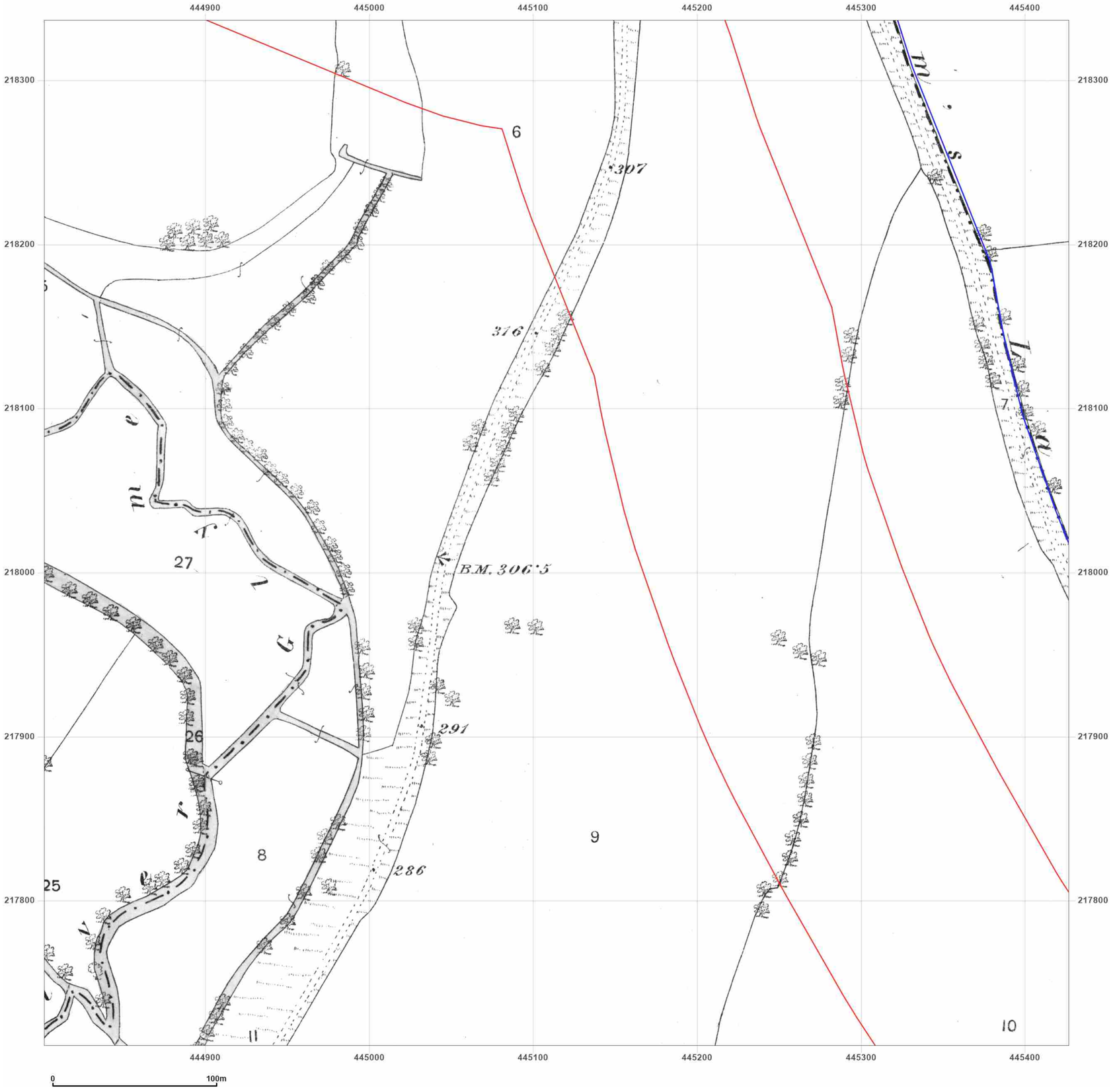
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at:



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_2_2
Grid Ref: 445114, 218024

Map Name: County Series

Map date: **1886**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1886
Revised 1886
Edition N/A
Copyright N/A
Levelled N/A

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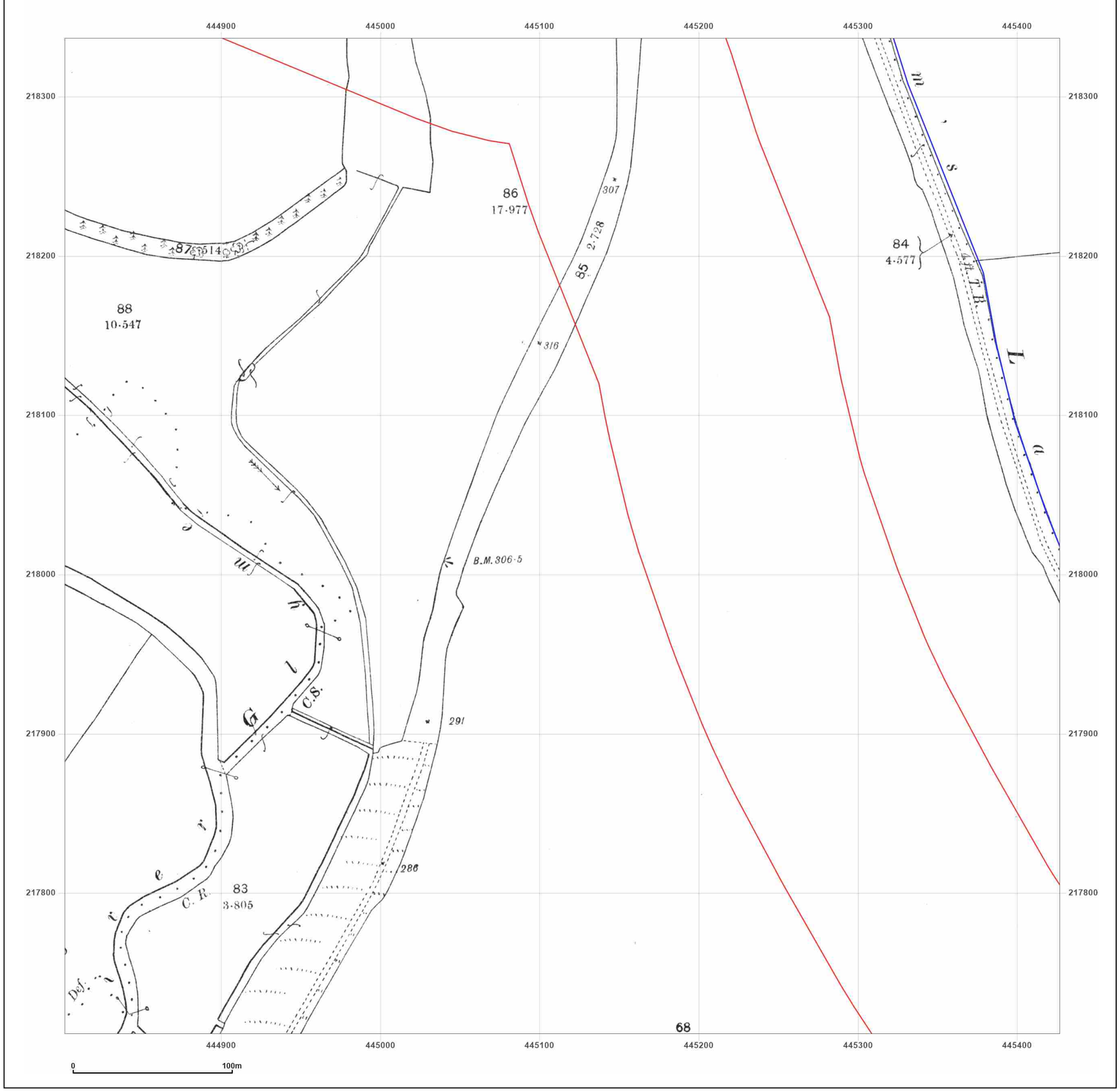
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_2_2
Grid Ref: 445114, 218024

Map Name: County Series

Map date: **1898**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

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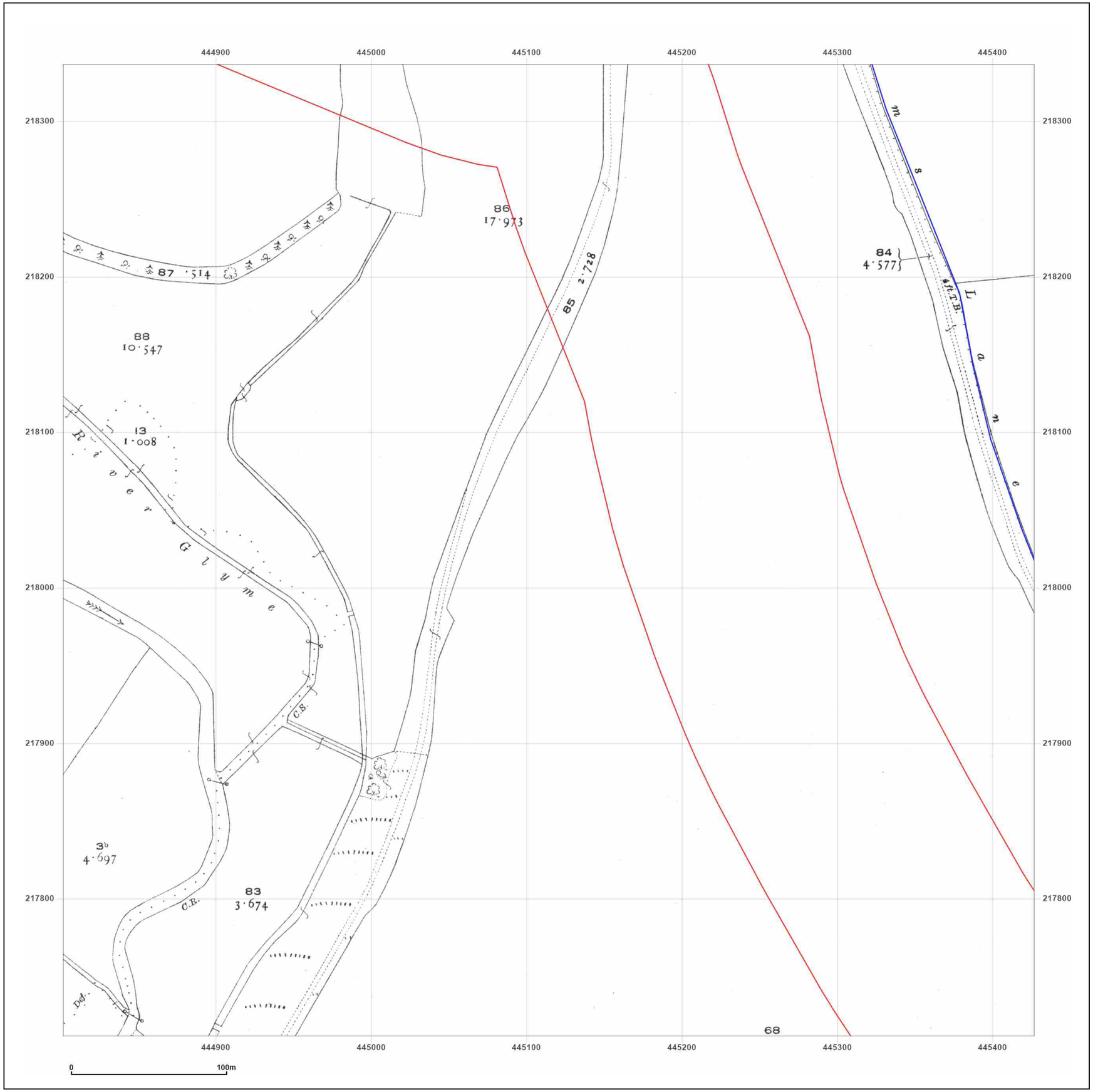
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_2_2
Grid Ref: 445114, 218024

Map Name: County Series

Map date: 1922

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1922
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

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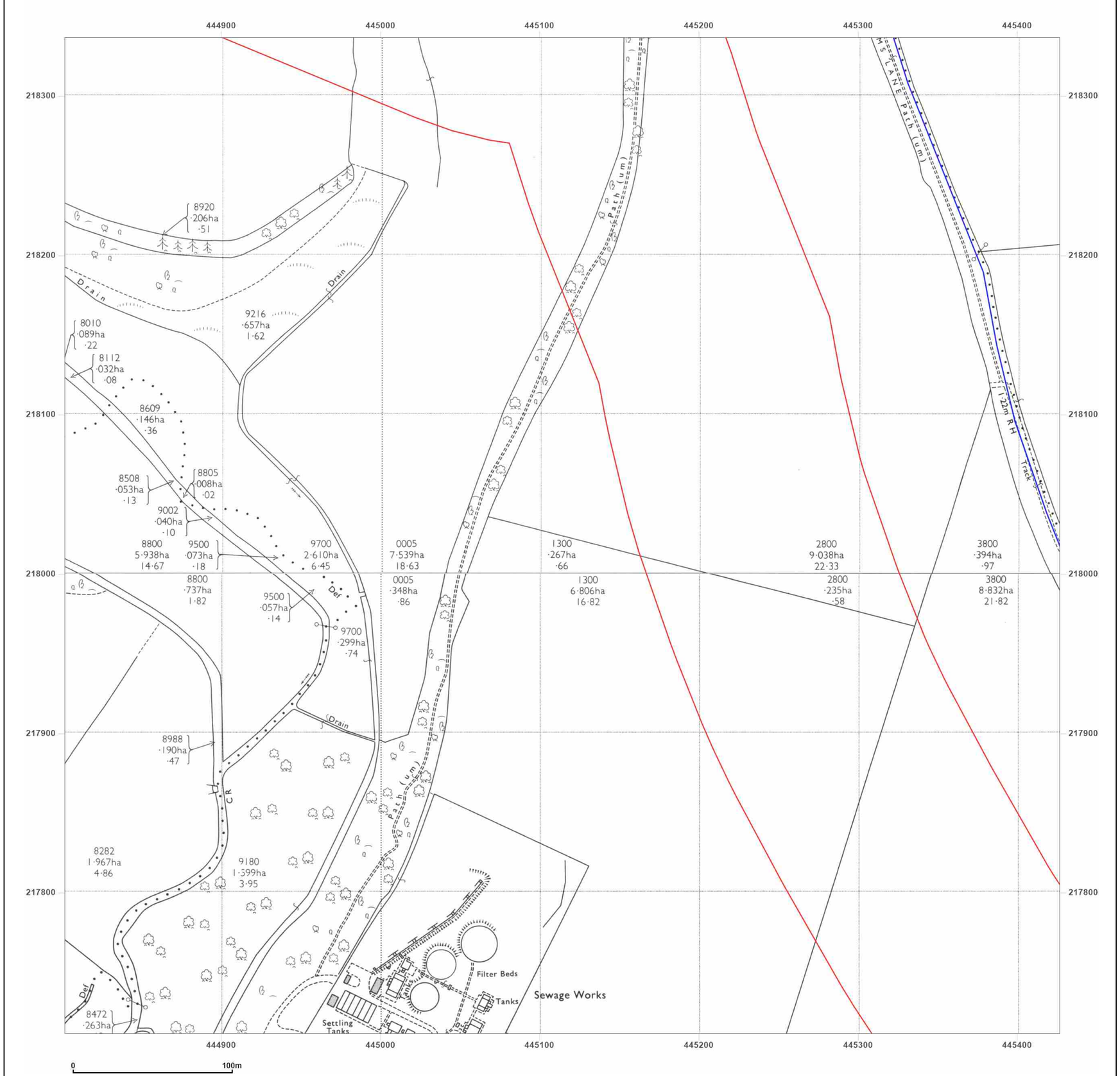
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_2_2
Grid Ref: 445114, 218024

Map Name: National Grid

Map date: **1974**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1972
Revised 1972
Edition N/A
Copyright 1974
Levelled 1970

Surveyed 1972
Revised 1972
Edition N/A
Copyright 1974
Levelled 1971

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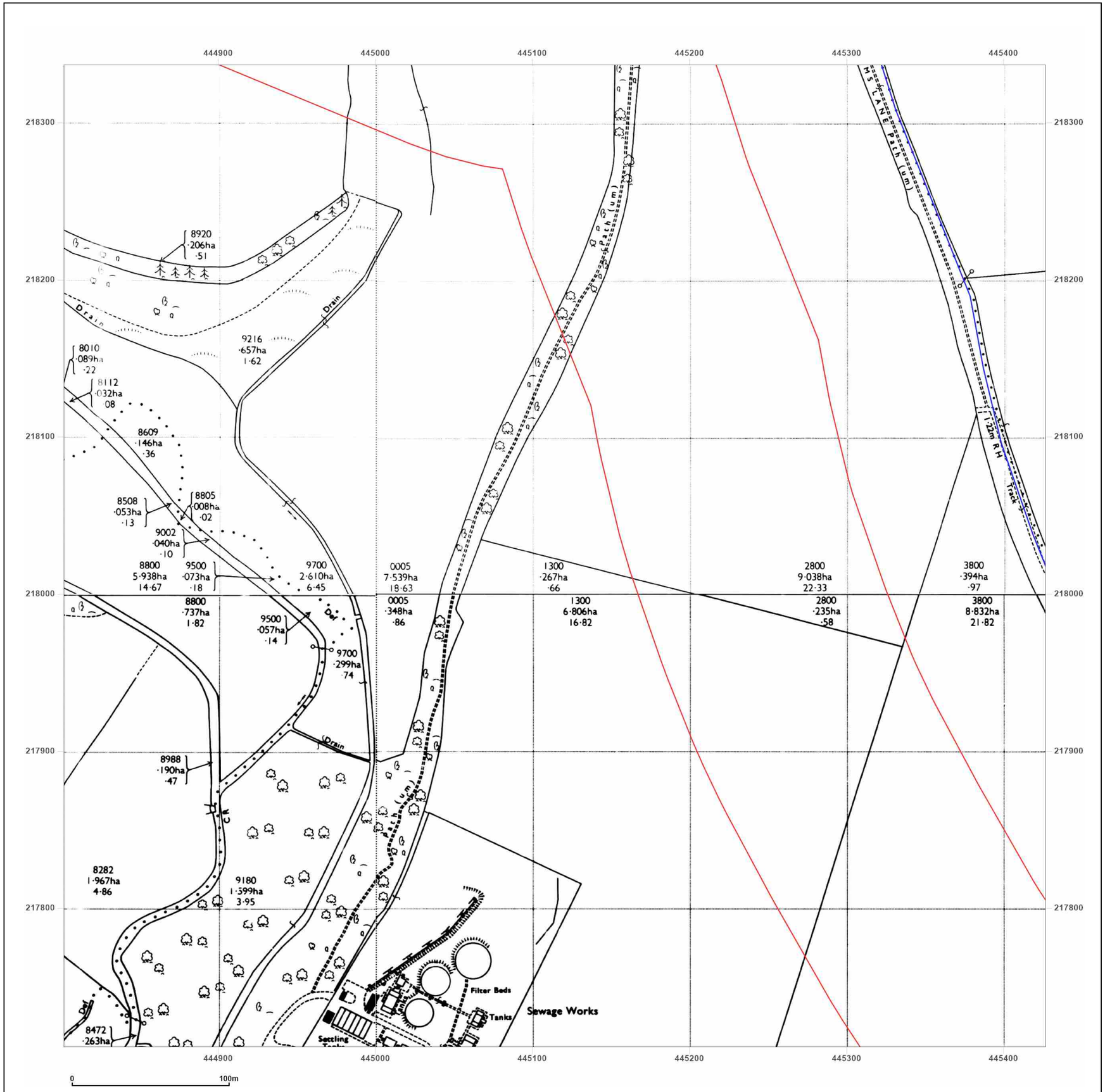
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_2_2
Grid Ref: 445114, 218024

Map Name: National Grid

Map date: **1974**

Scale: 1:2,500

Printed at: 1:2,500

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

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

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

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

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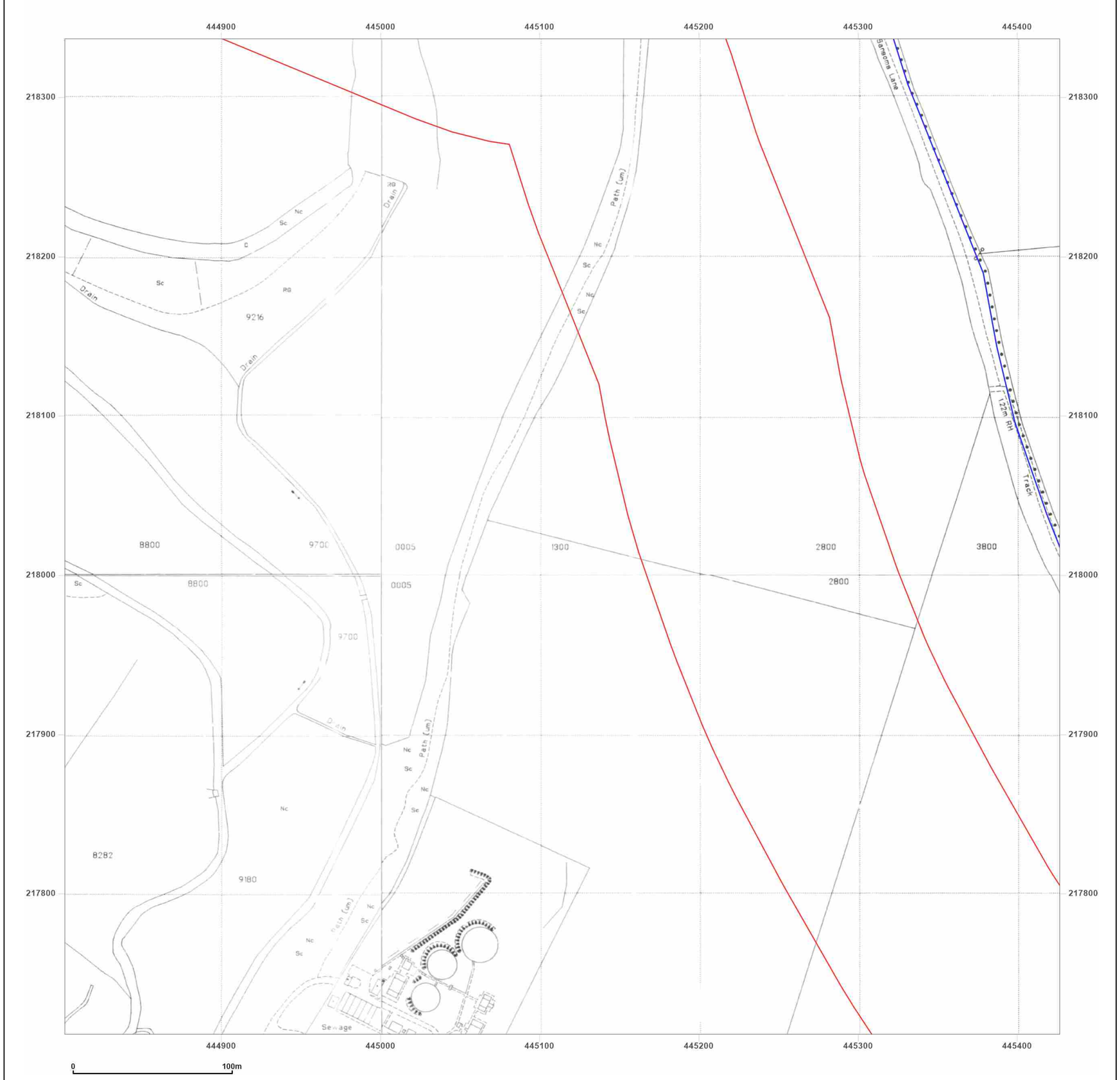
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_2_2
Grid Ref: 445114, 218024

Map Name: National Grid

Map date: **1994**

Scale: 1:2,500

Printed at: 1:2,500

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

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

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

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

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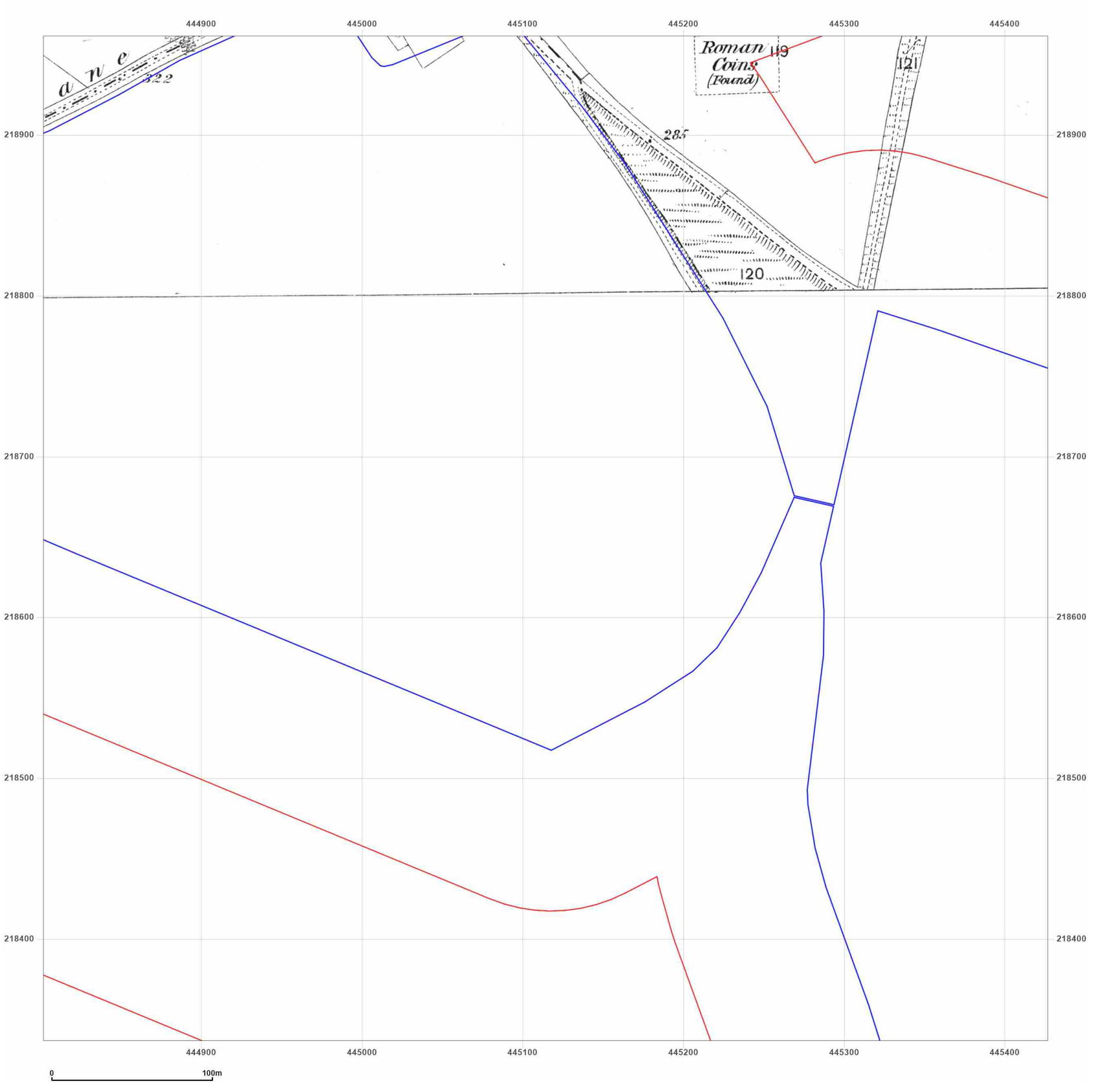
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_2_3
Grid Ref: 445114, 218649

Map Name: County Series

Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

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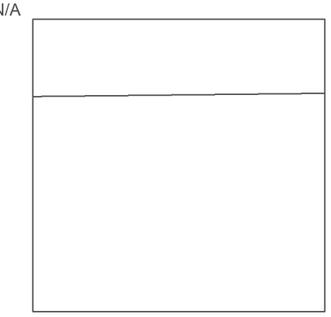
Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



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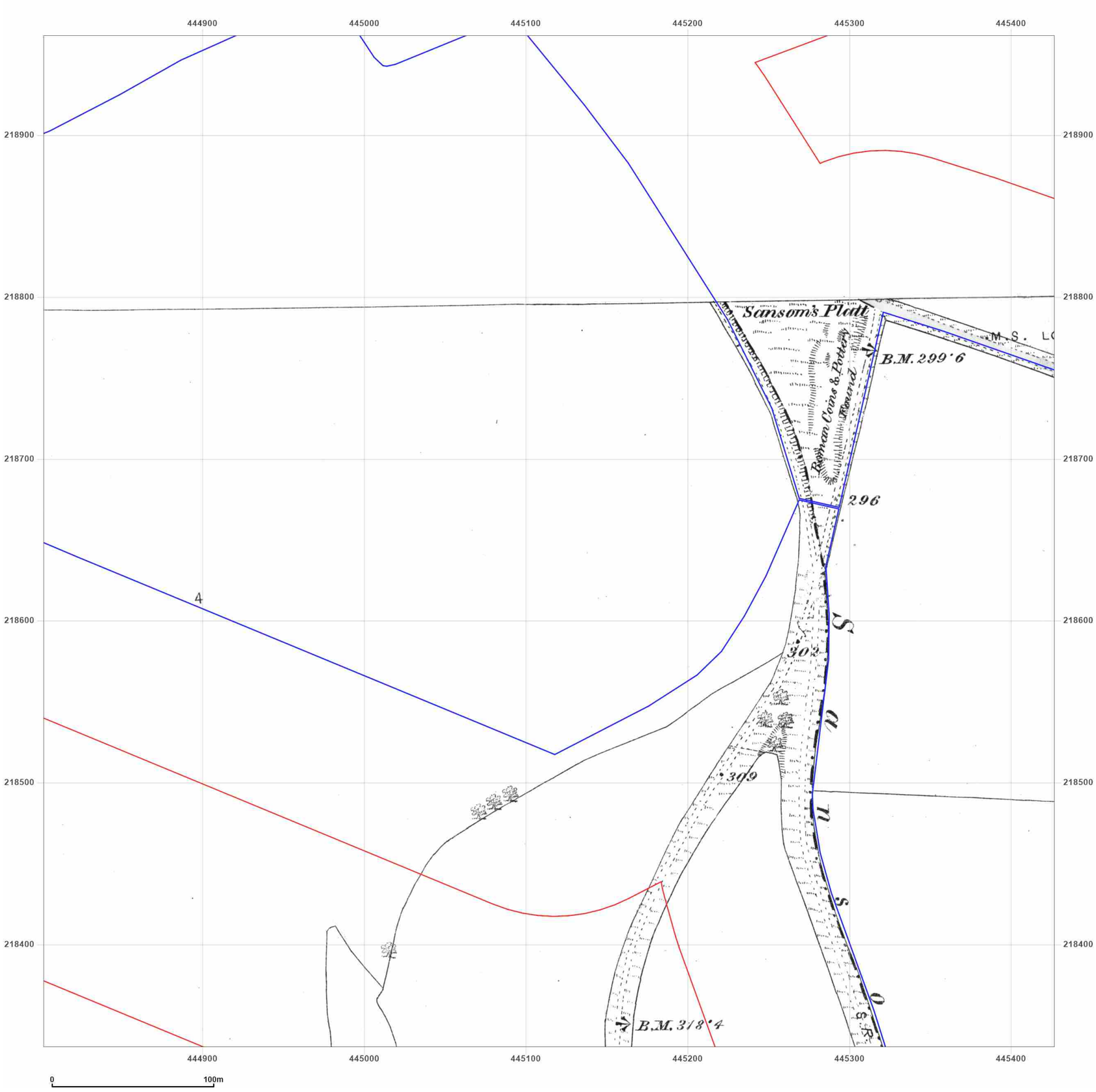
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_2_3
Grid Ref: 445114, 218649

Map Name: County Series

Map date: **1886**

Scale: 1:2,500

Printed at: 1:2,500

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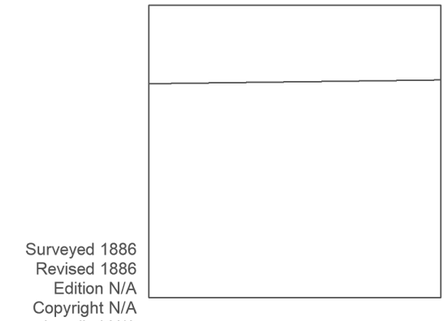

Surveyed 1886
Revised 1886
Edition N/A
Copyright N/A
Levelled N/A

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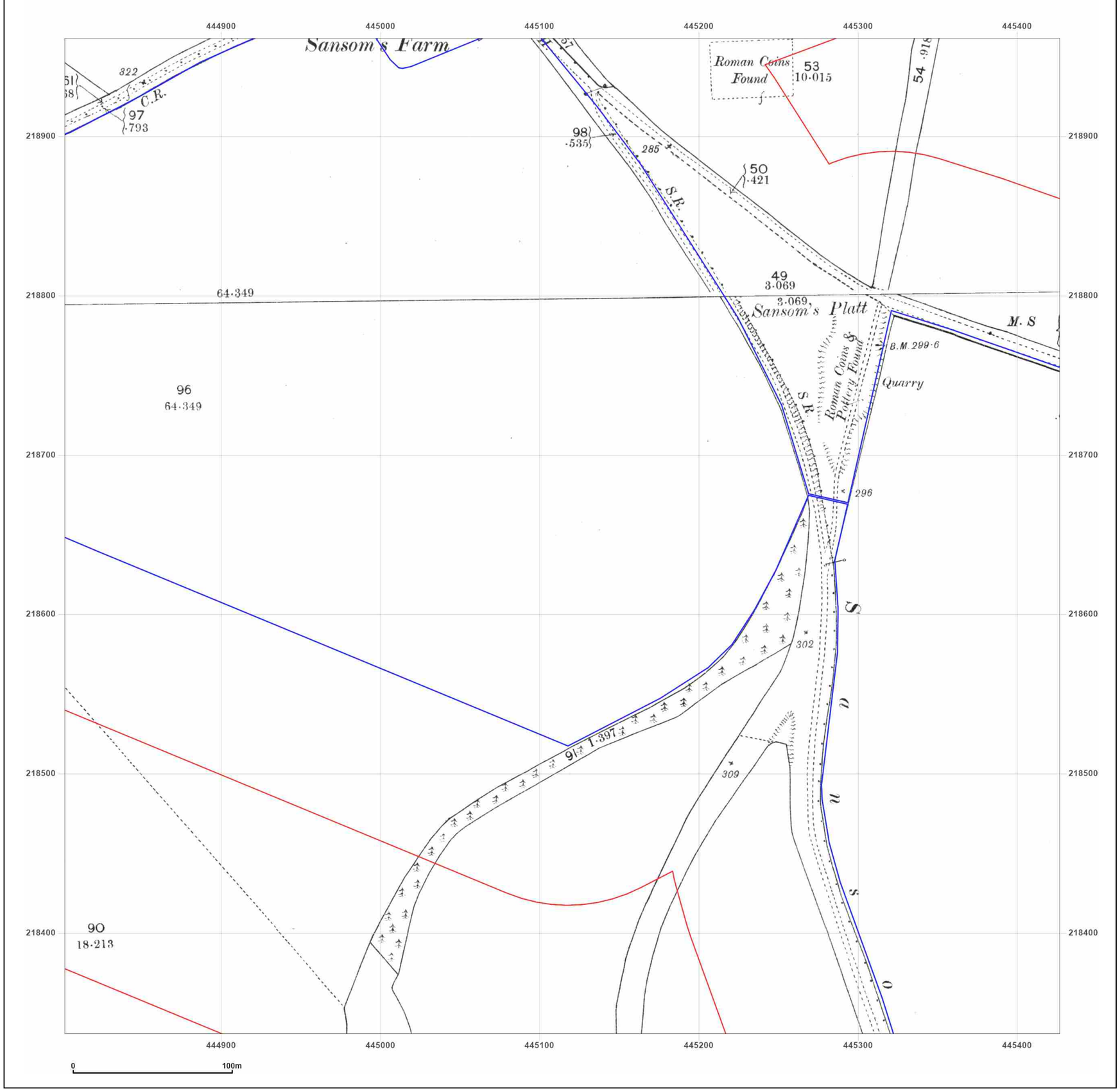
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_2_3
Grid Ref: 445114, 218649

Map Name: County Series

Map date: **1898-1899**

Scale: 1:2,500

Printed at: 1:2,500

N
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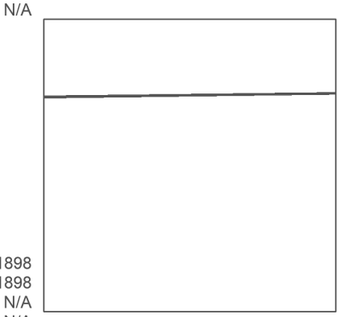
Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

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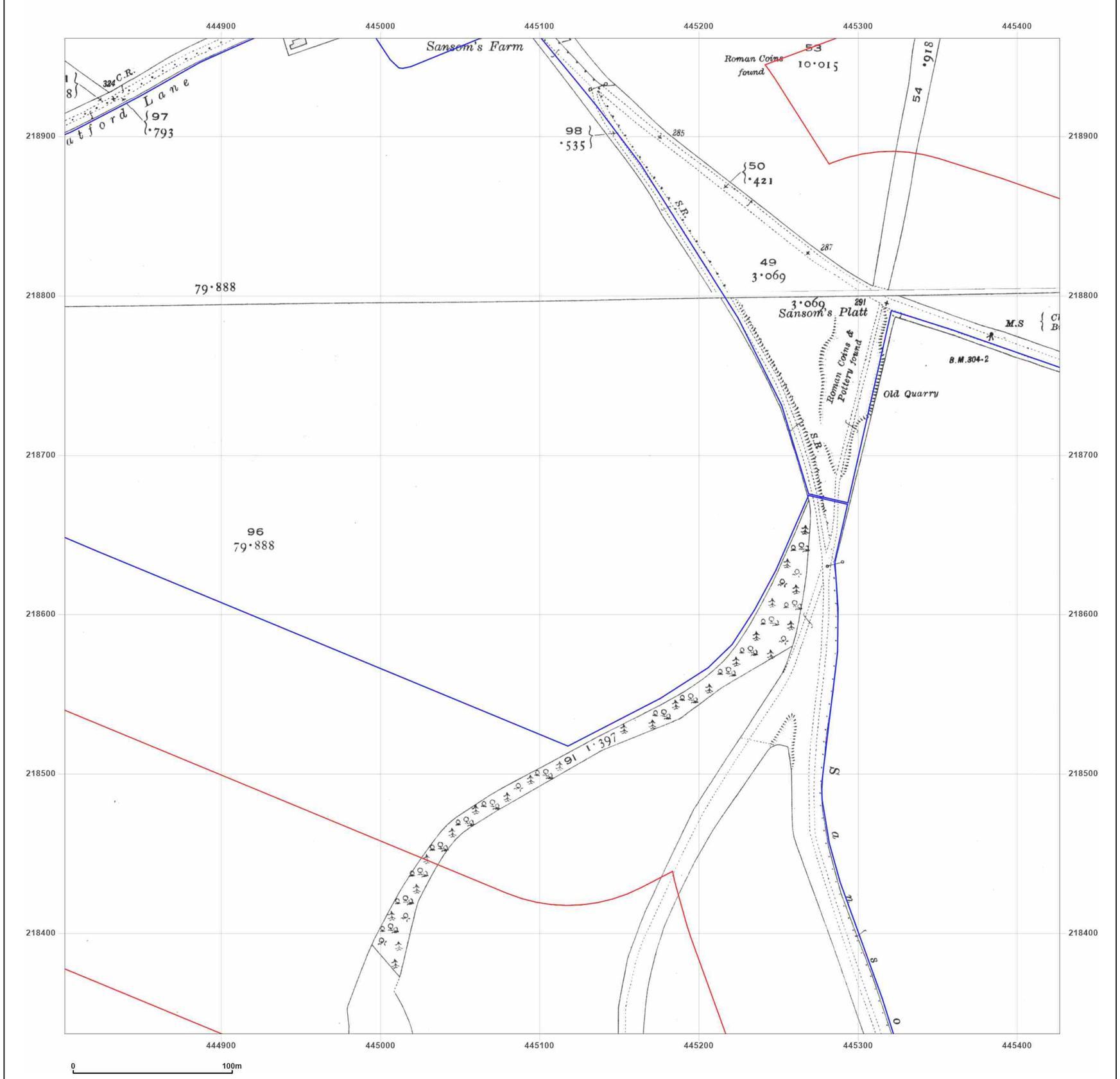
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_2_3
Grid Ref: 445114, 218649

Map Name: County Series

Map date: **1922**

Scale: 1:2,500

Printed at: 1:2,500

N
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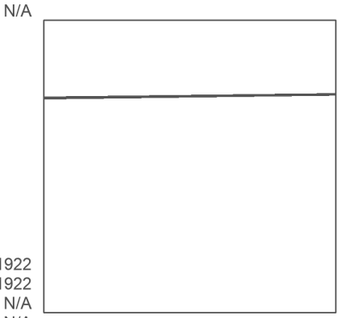
Surveyed 1922
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1922
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

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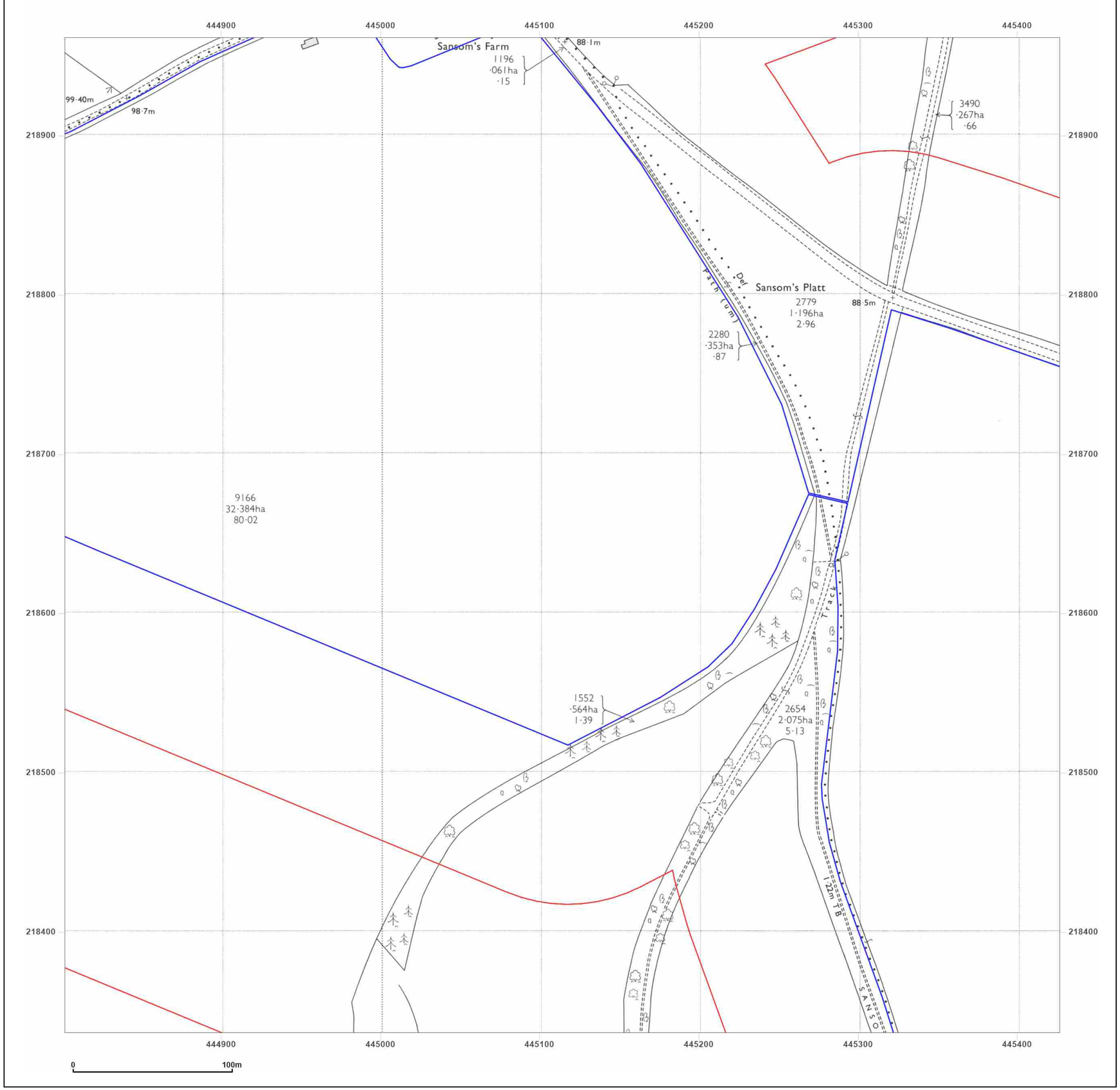
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_2_3
Grid Ref: 445114, 218649

Map Name: National Grid

Map date: **1974**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1972
Revised 1972
Edition N/A
Copyright 1974
Levelled 1970

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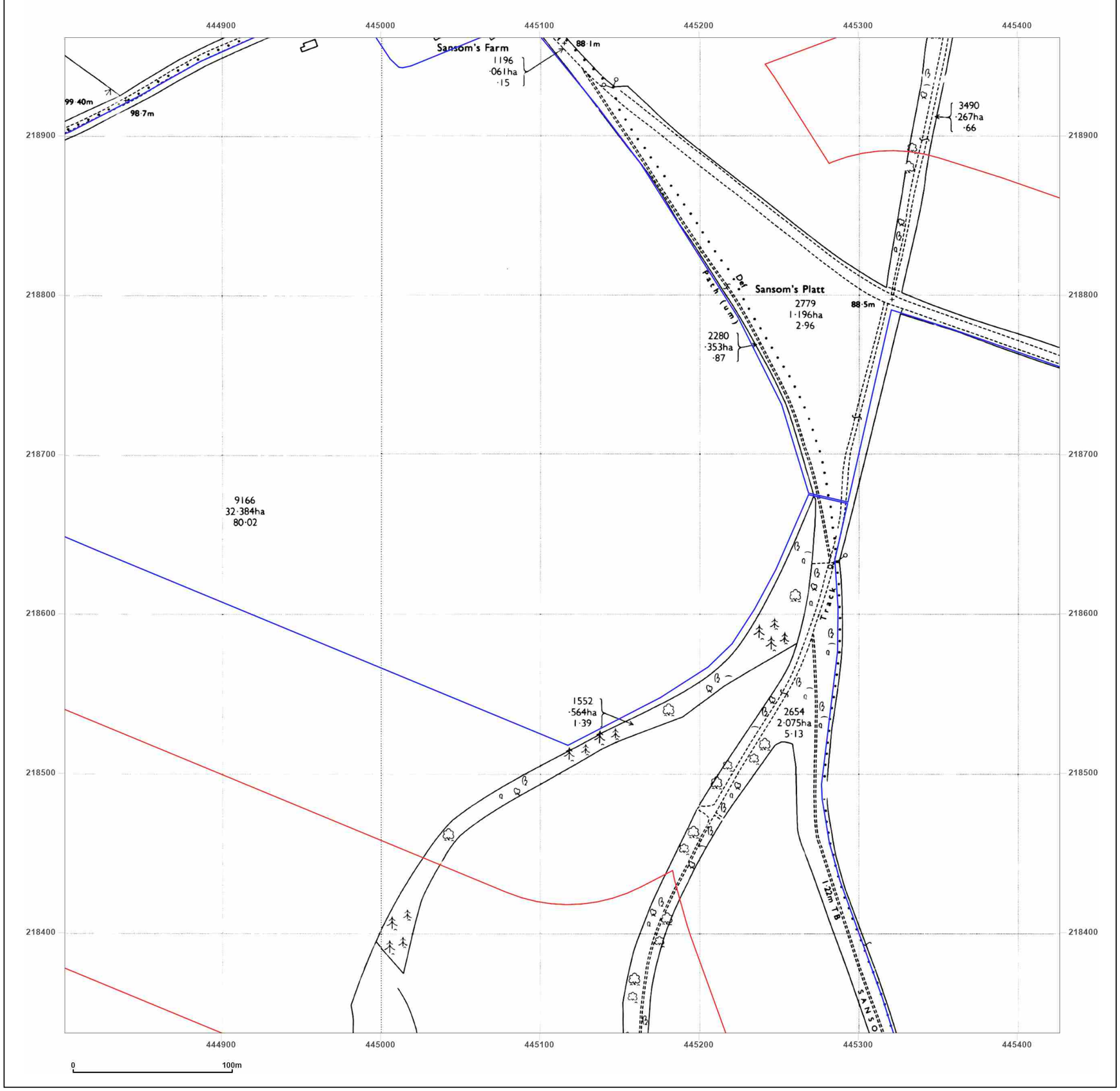
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_2_3
Grid Ref: 445114, 218649

Map Name: National Grid

Map date: **1974**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

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

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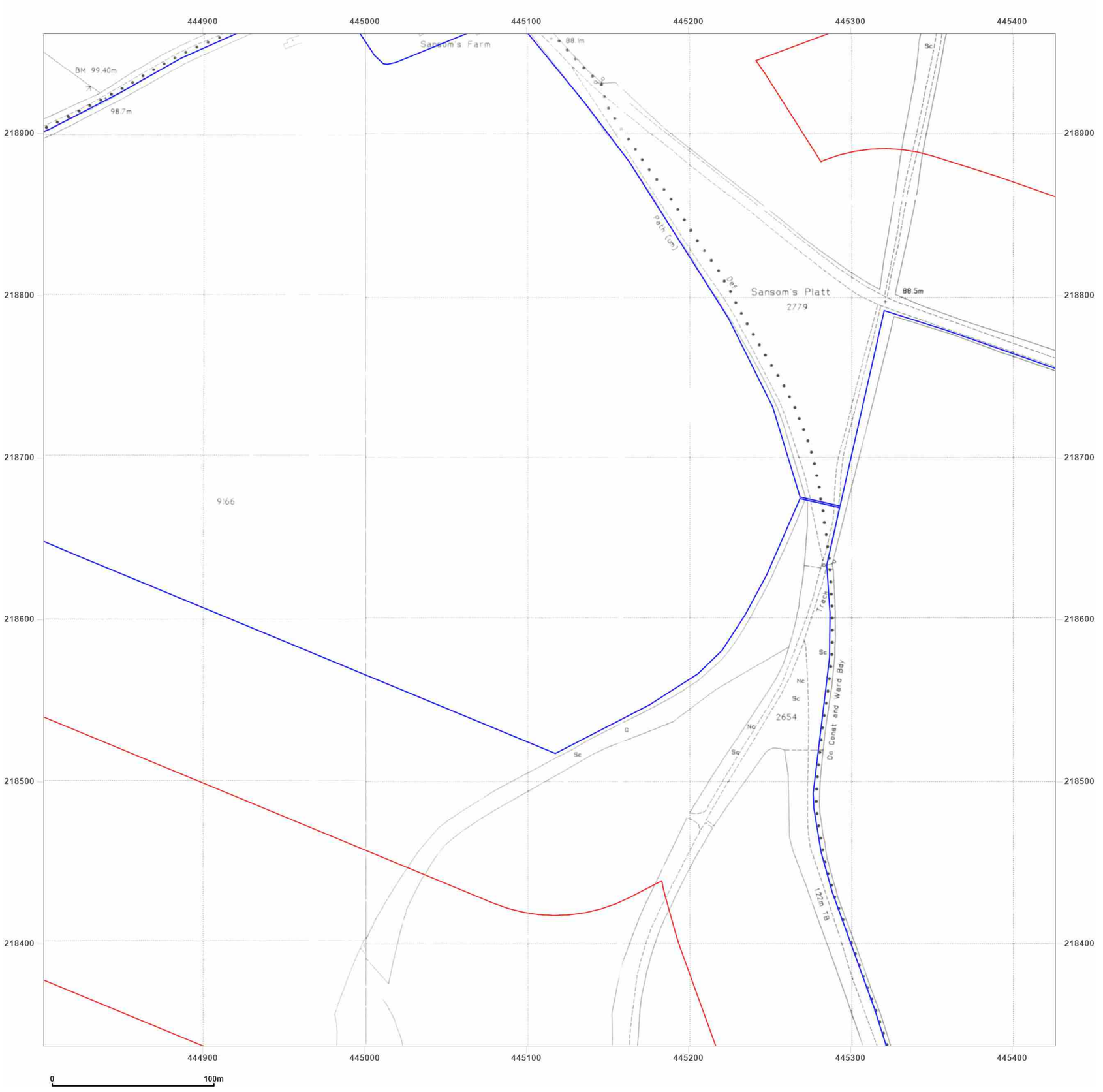
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_2_3
Grid Ref: 445114, 218649

Map Name: National Grid

Map date: **1994**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

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

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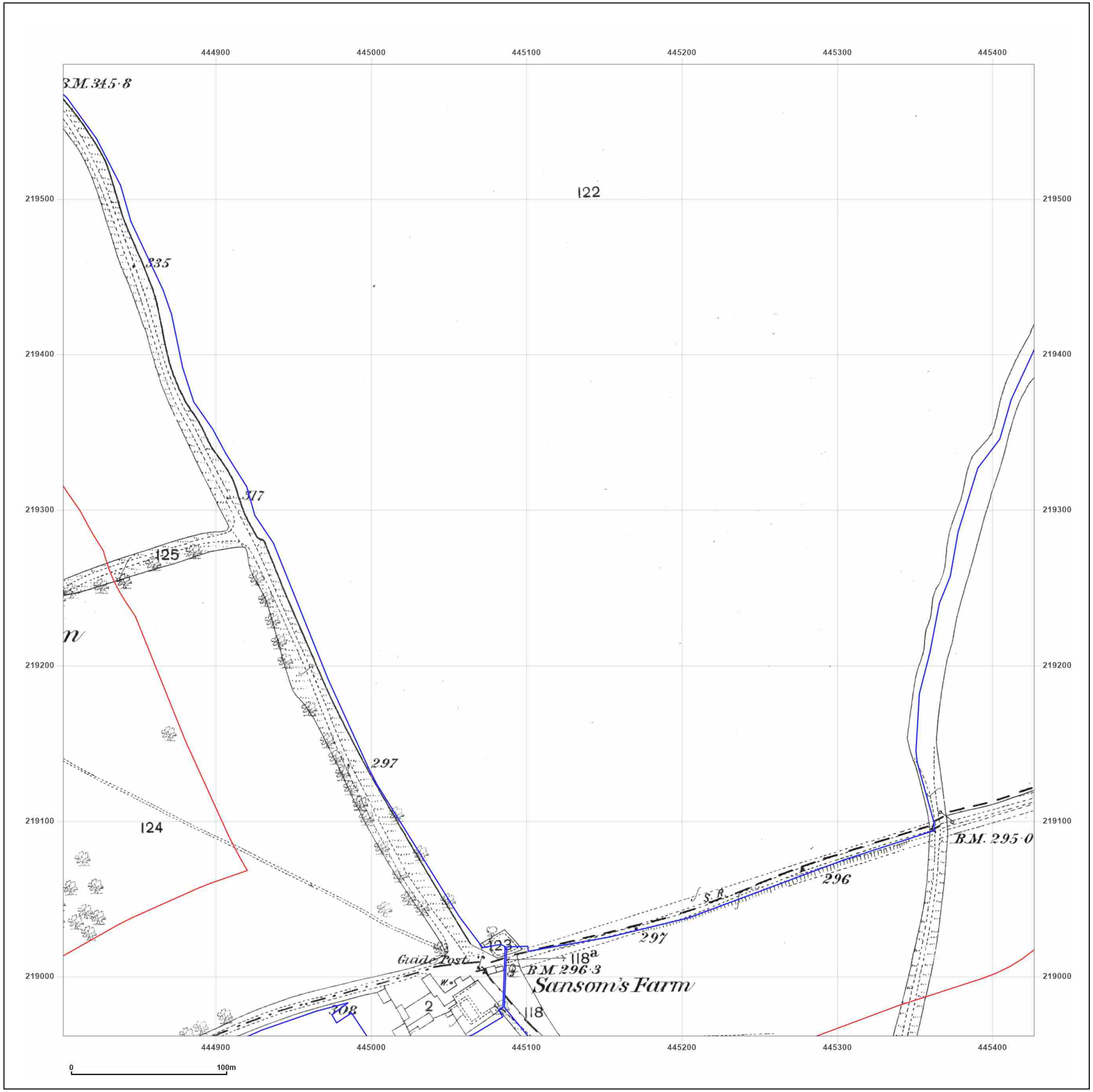
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_2_4
Grid Ref: 445114, 219274

Map Name: County Series

Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

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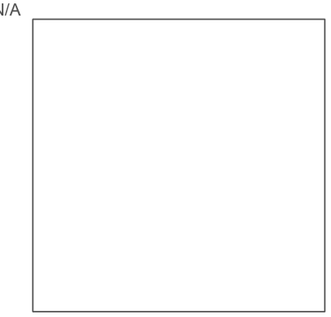
Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



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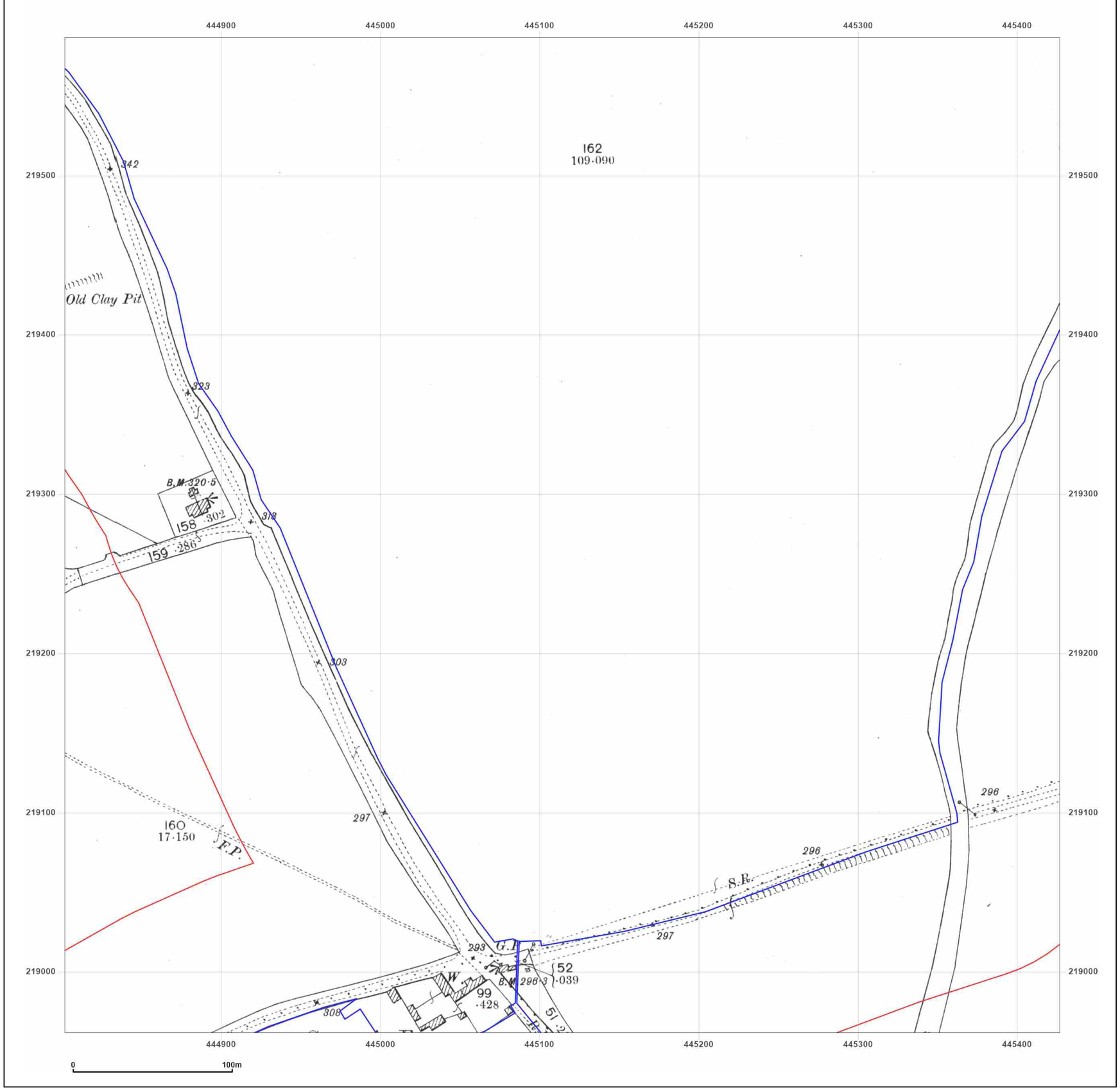
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_2_4
Grid Ref: 445114, 219274

Map Name: County Series

Map date: 1899

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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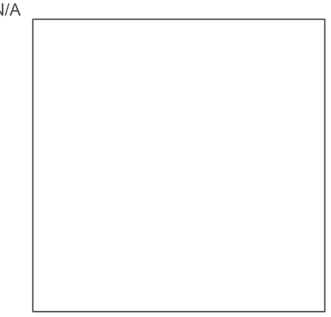
Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A



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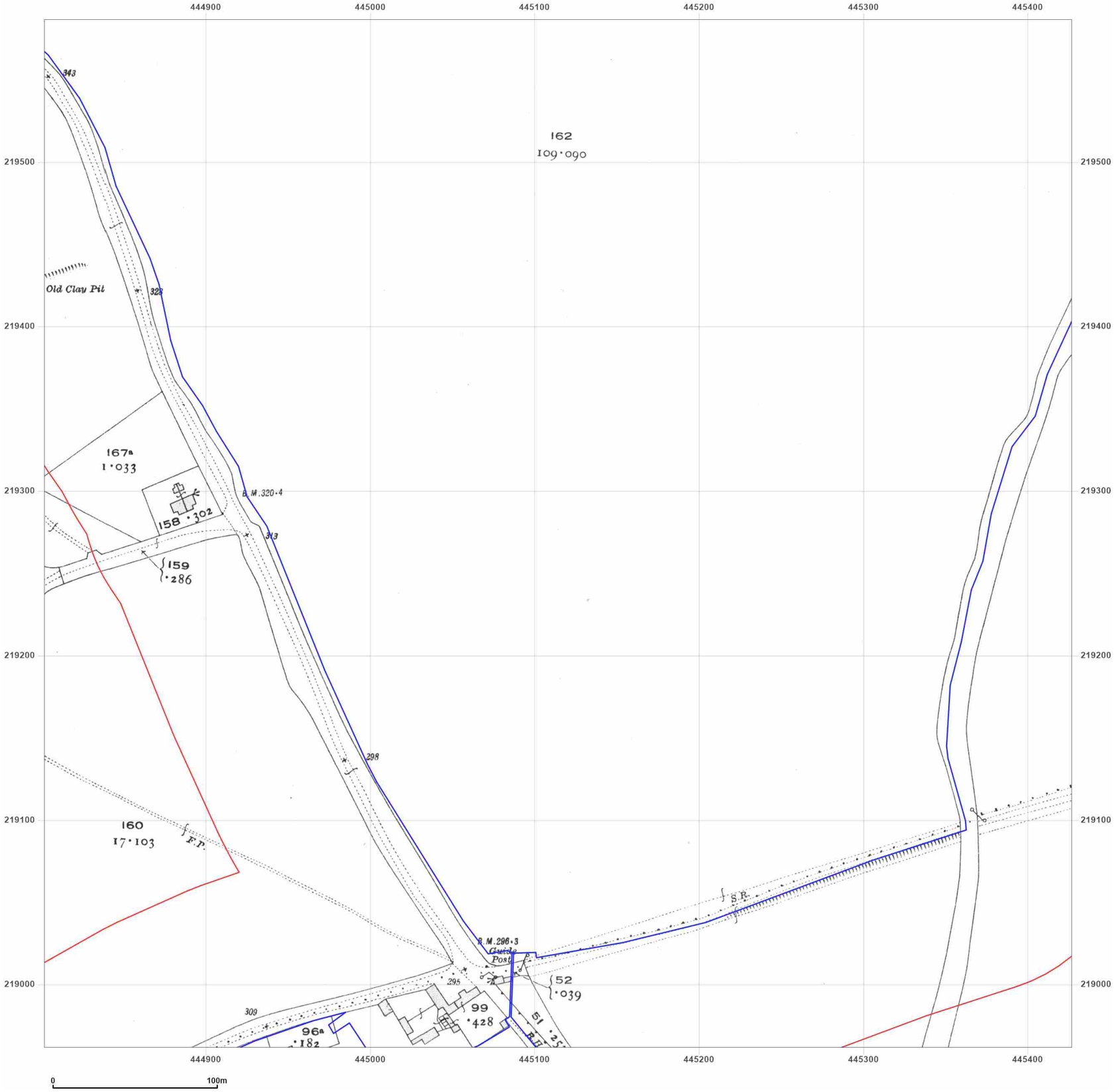
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_2_4
Grid Ref: 445114, 219274

Map Name: County Series

Map date: 1922

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1922
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

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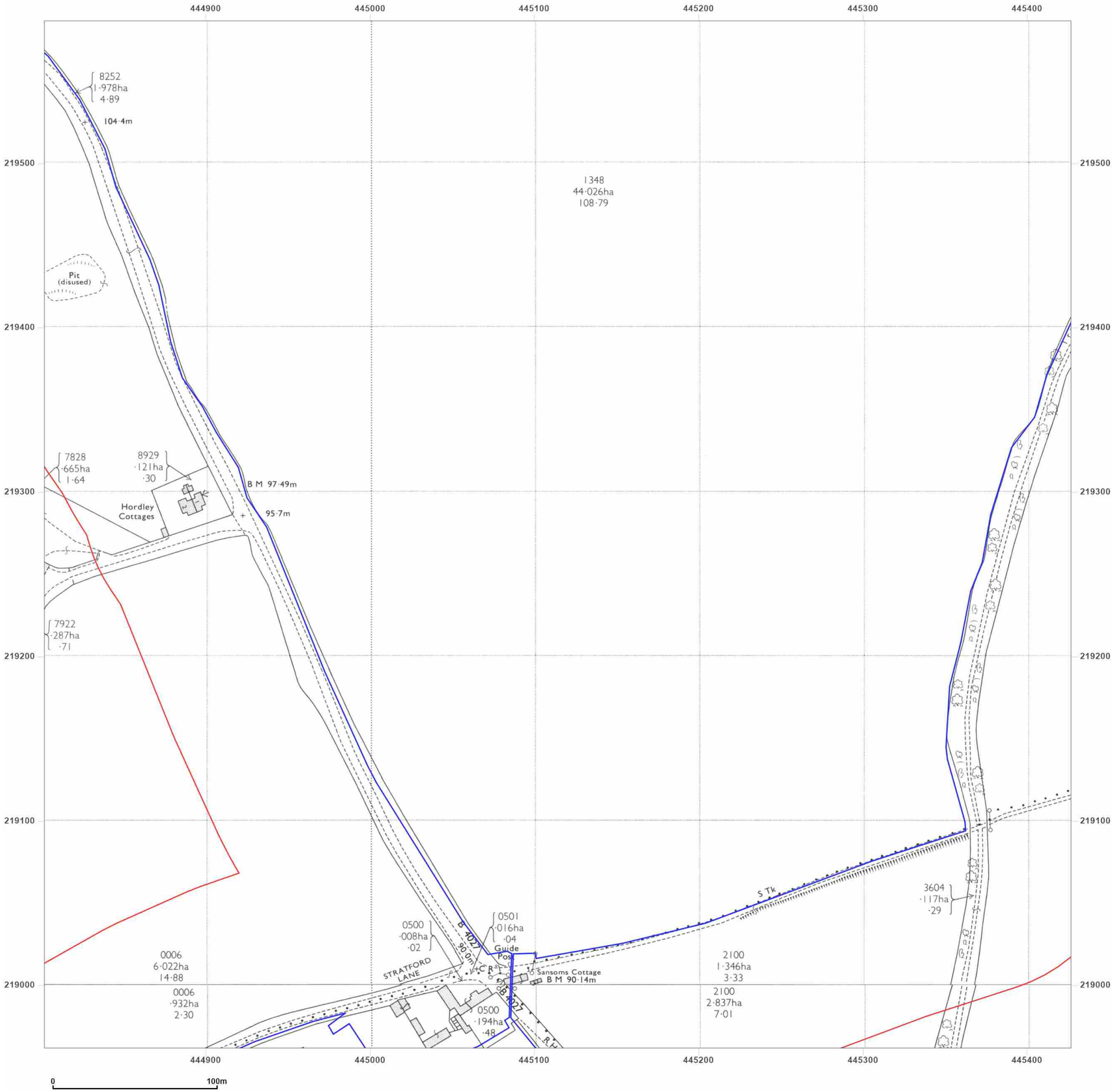
E: info@groundsure.com
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at:



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_2_4
Grid Ref: 445114, 219274

Map Name: National Grid

Map date: **1974**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1972
Revised 1972
Edition N/A
Copyright 1974
Levelled 1970

Surveyed 1972
Revised 1972
Edition N/A
Copyright 1974
Levelled 1970

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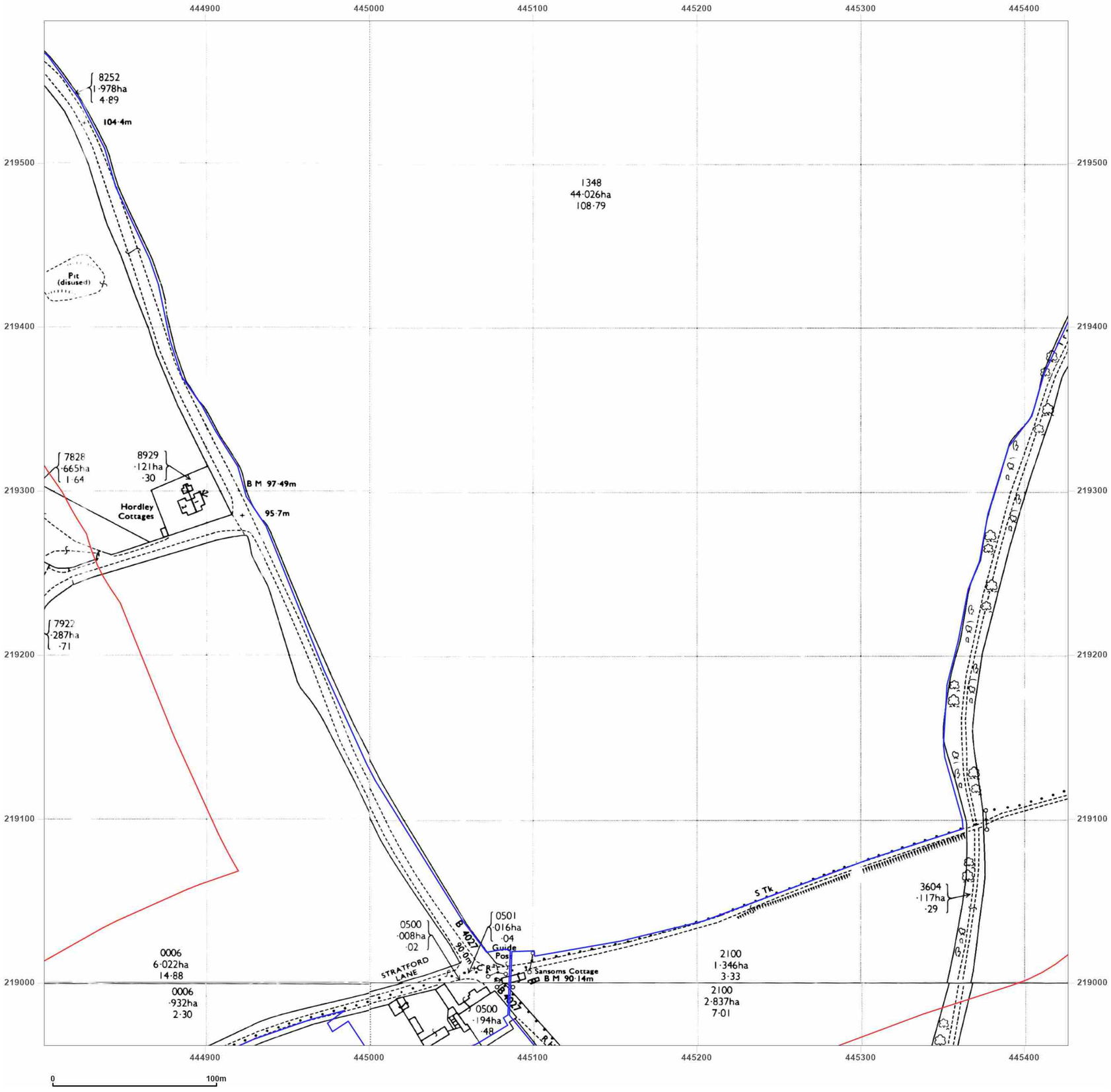
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_2_4
Grid Ref: 445114, 219274

Map Name: National Grid

Map date: **1974**

Scale: 1:2,500

Printed at: 1:2,500

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

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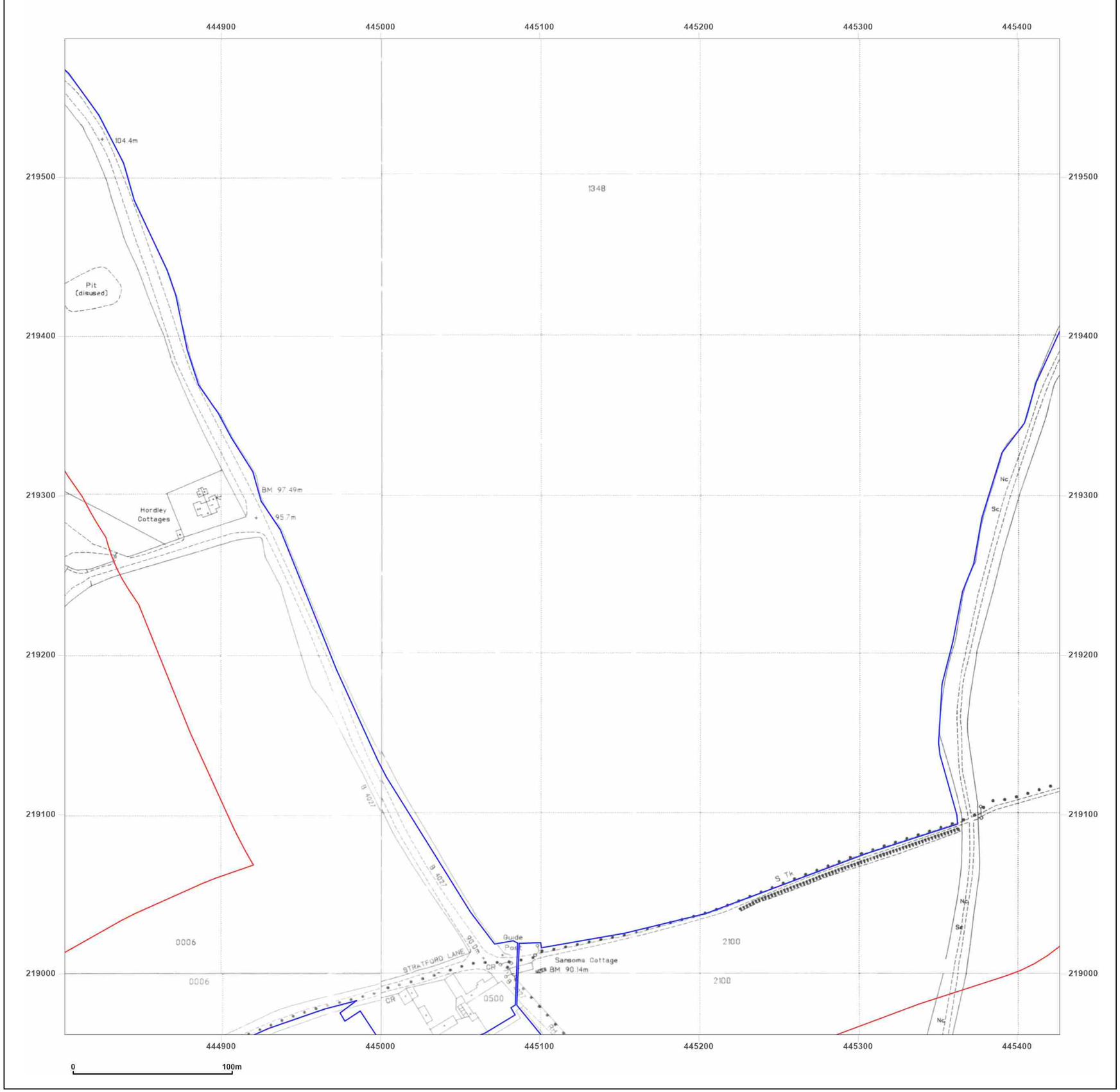
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_2_4
Grid Ref: 445114, 219274

Map Name: National Grid

Map date: **1994**

Scale: 1:2,500

Printed at: 1:2,500

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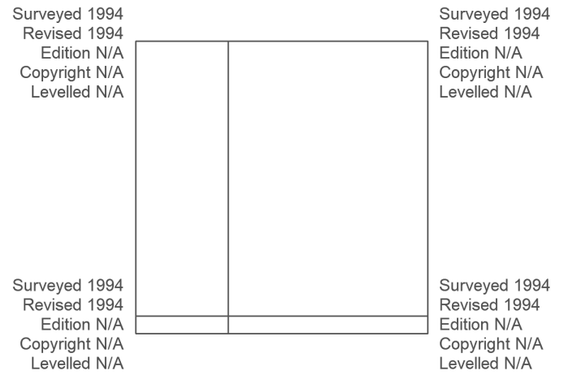

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Production date: 24 May 2022

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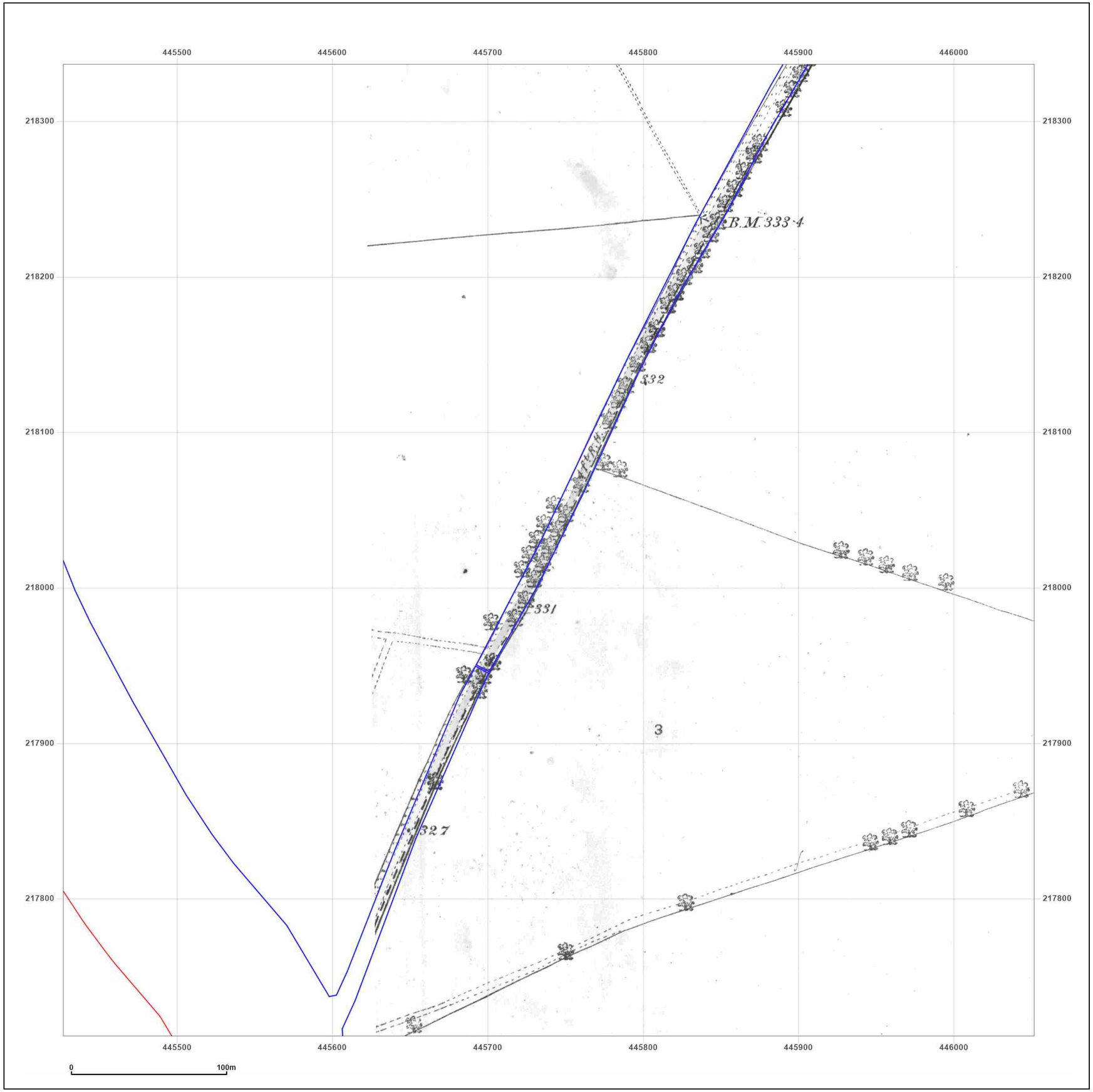

Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_3_2
Grid Ref: 445739, 218024

Map Name: County Series

Map date: **1878**

Scale: 1:2,500

Printed at: 1:2,500

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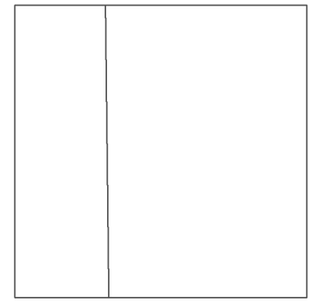

Surveyed 1878
Revised 1878
Edition N/A
Copyright N/A
Levelled N/A

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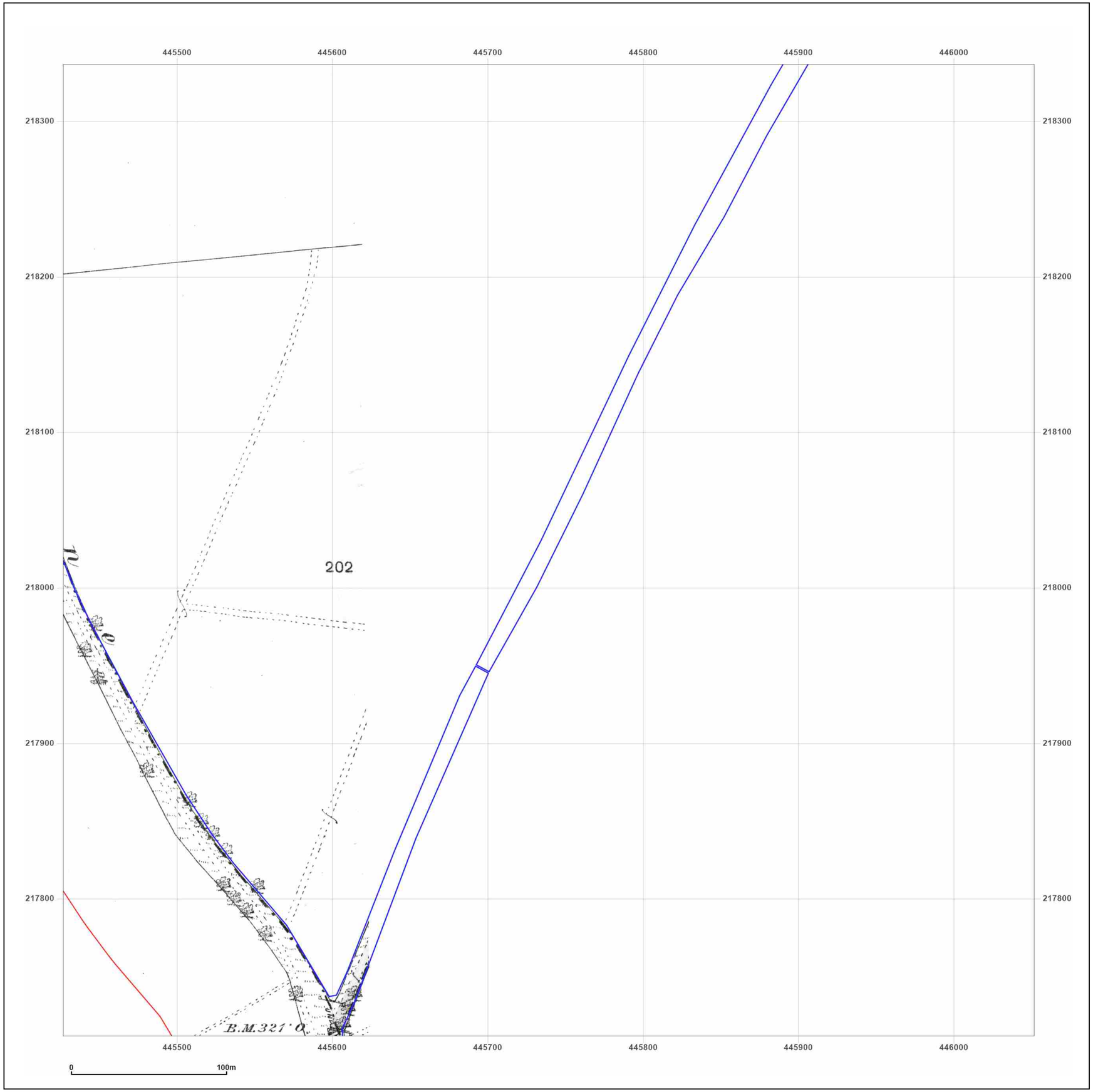
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_3_2
Grid Ref: 445739, 218024

Map Name: County Series

Map date: **1886**

Scale: 1:2,500

Printed at: 1:2,500

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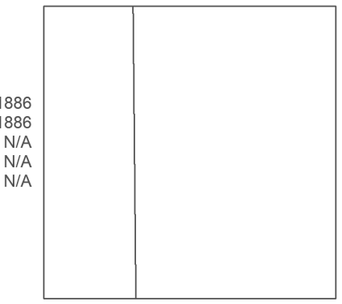
Surveyed 1886
Revised 1886
Edition N/A
Copyright N/A
Levelled N/A



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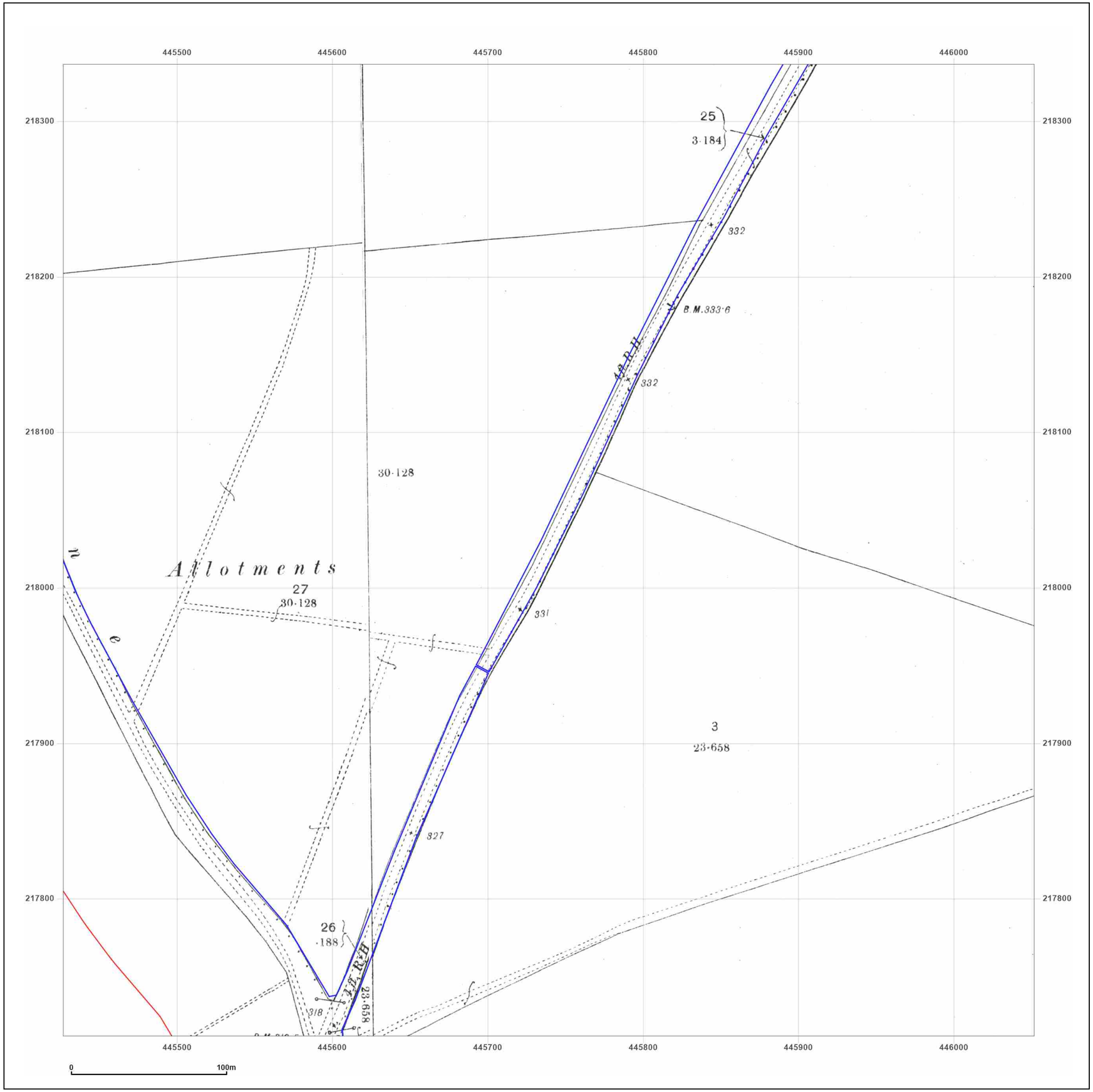
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_3_2
Grid Ref: 445739, 218024

Map Name: County Series

Map date: **1898**

Scale: 1:2,500

Printed at: 1:2,500

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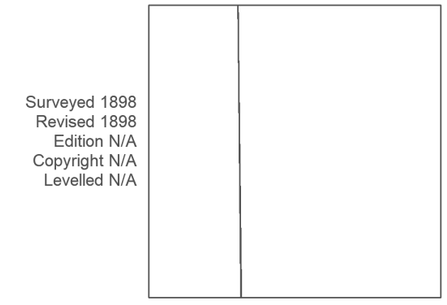

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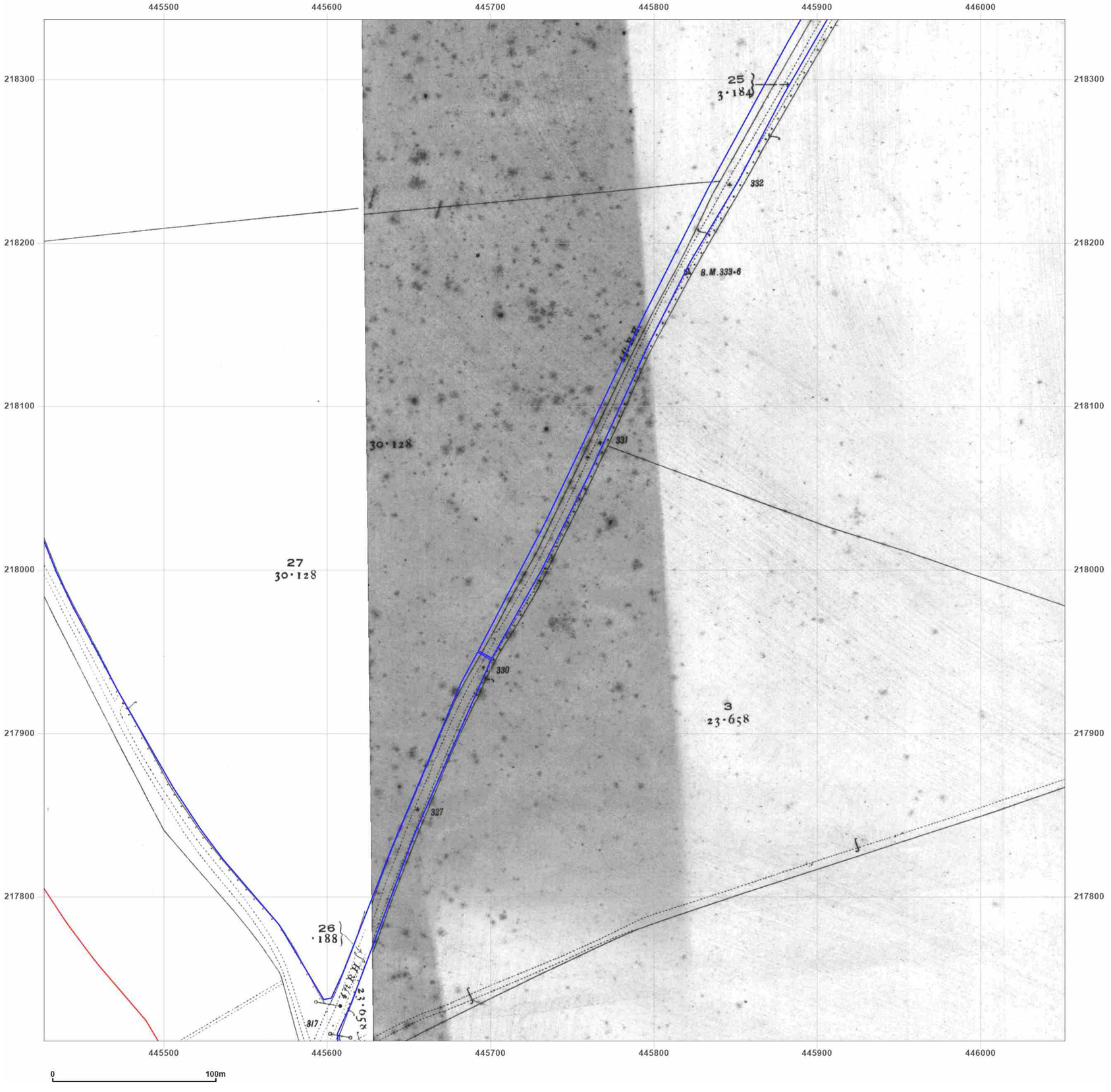
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_3_2
Grid Ref: 445739, 218024

Map Name: County Series

Map date: **1922**

Scale: 1:2,500

Printed at: 1:2,500

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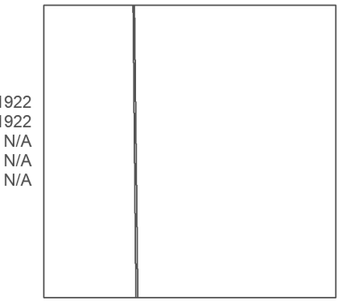
Surveyed 1922
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1922
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

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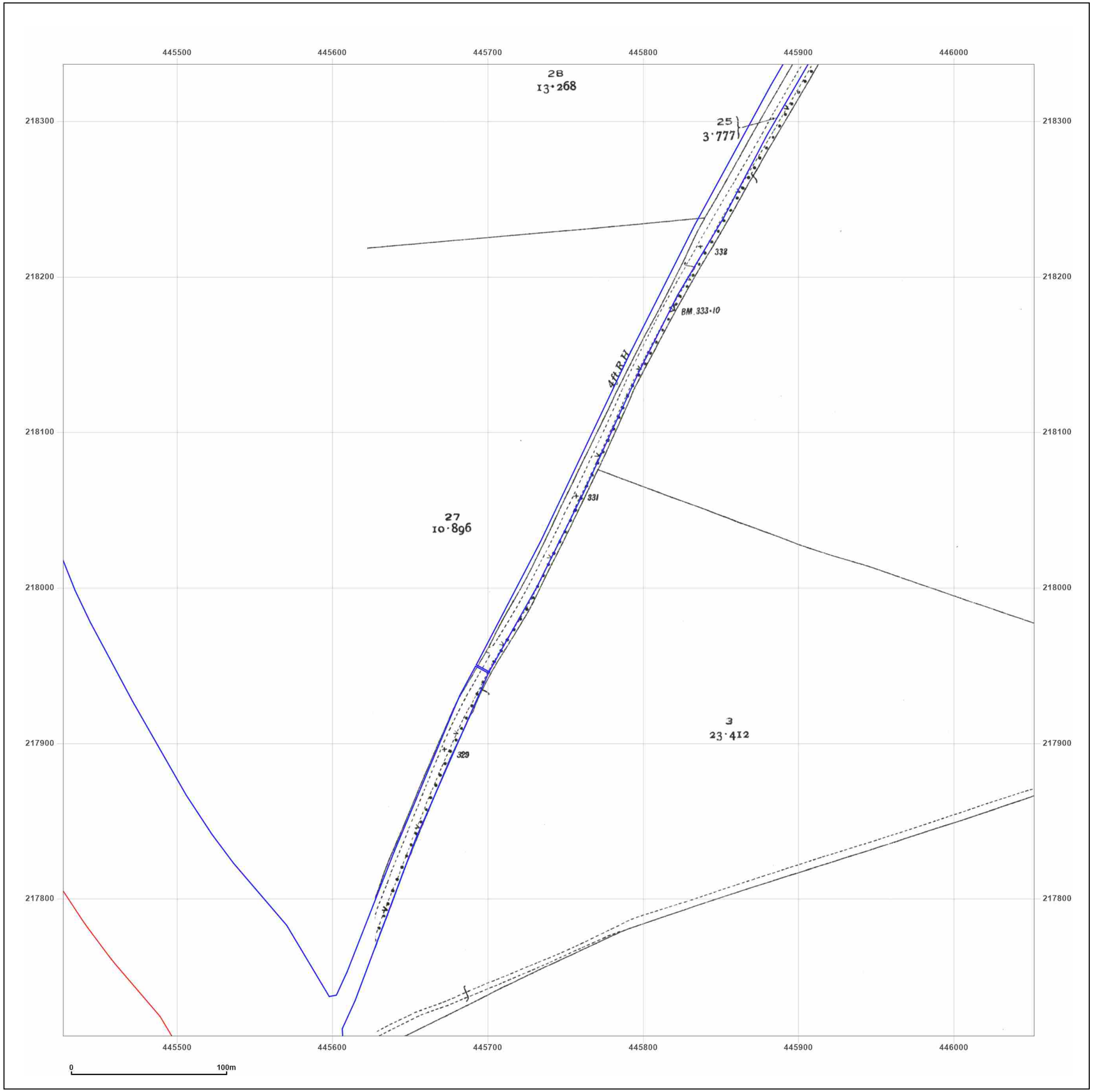
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_3_2
Grid Ref: 445739, 218024

Map Name: County Series

Map date: **1937**

Scale: 1:2,500

Printed at: 1:2,500

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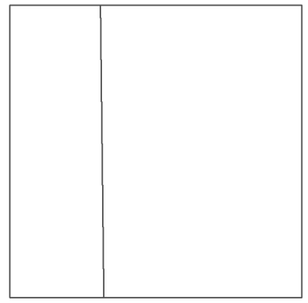

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Revised 1937
Edition N/A
Copyright N/A
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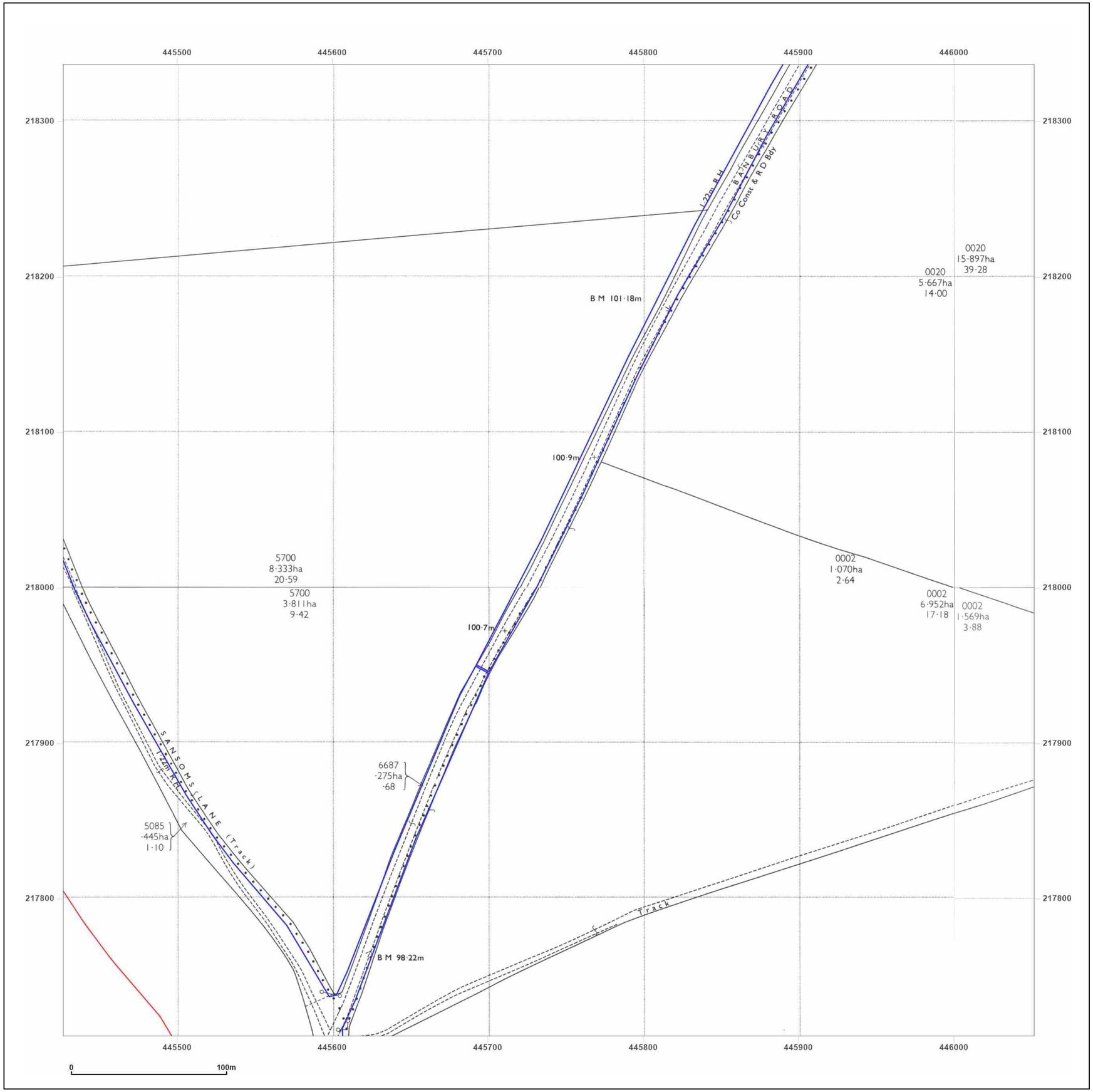
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_3_2
Grid Ref: 445739, 218024

Map Name: National Grid

Map date: **1974-1975**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1972 Revised 1972 Edition N/A Copyright 1974 Levelled 1970	Surveyed N/A Revised 1973 Edition N/A Copyright 1975 Levelled 1971
Surveyed 1972 Revised 1972 Edition N/A Copyright 1974 Levelled 1971	Surveyed N/A Revised 1975 Edition N/A Copyright 1975 Levelled 1970

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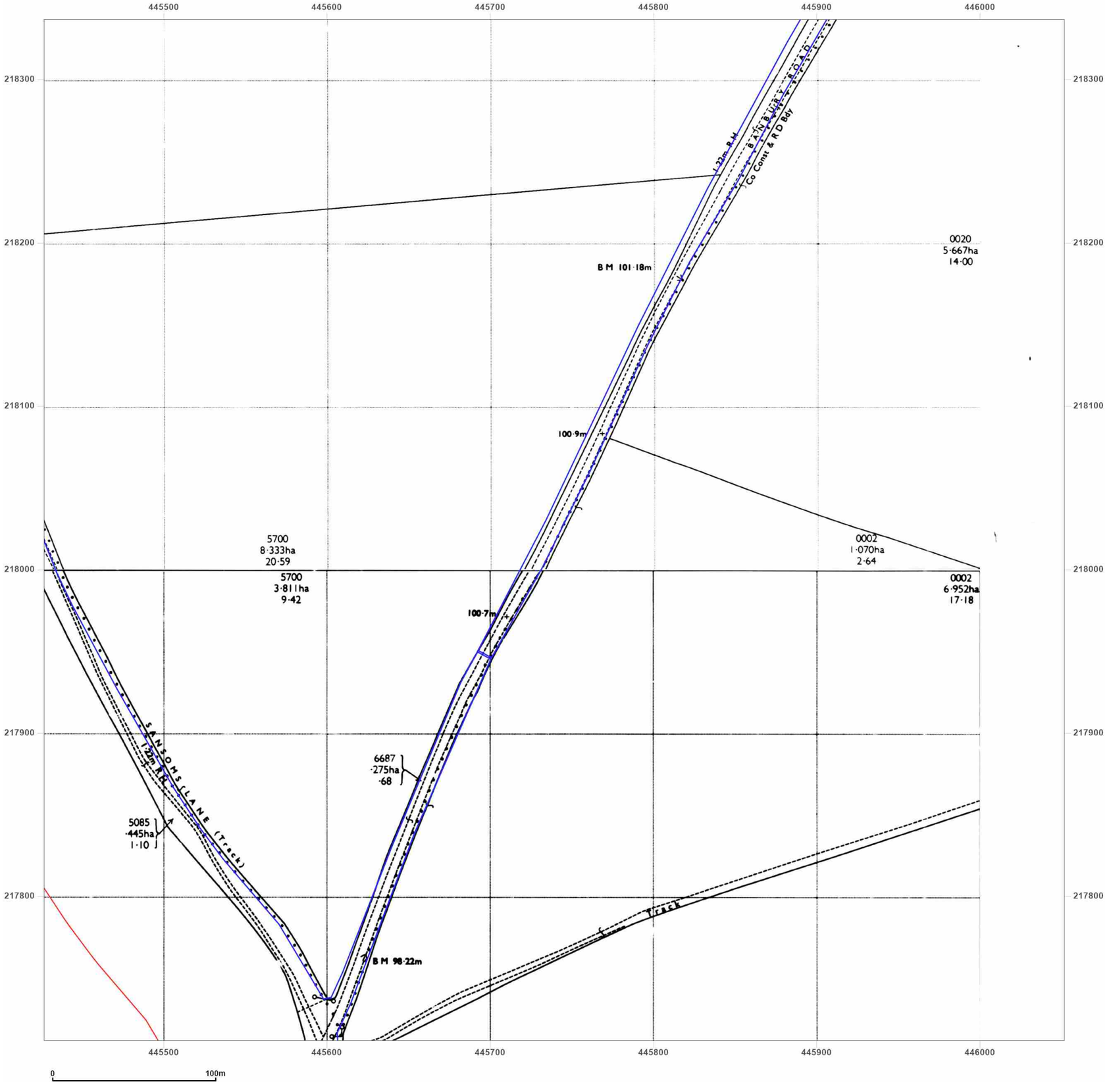
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_3_2
Grid Ref: 445739, 218024

Map Name: National Grid
Map date: **1974-1975**
Scale: 1:2,500
Printed at: 1:2,500

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

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

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

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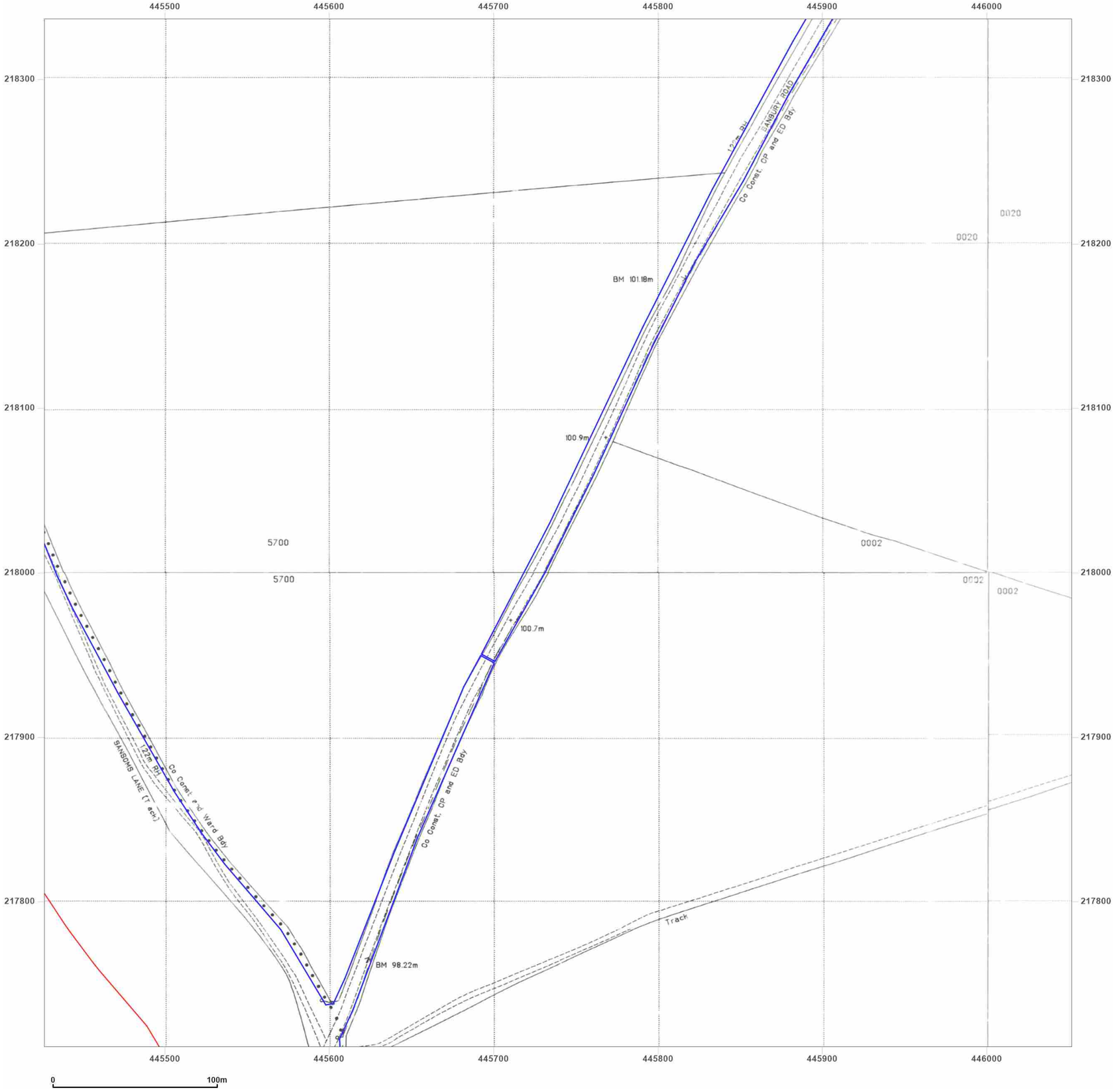
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_3_2
Grid Ref: 445739, 218024

Map Name: National Grid

Map date: **1994**

Scale: 1:2,500

Printed at: 1:2,500

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

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

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

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

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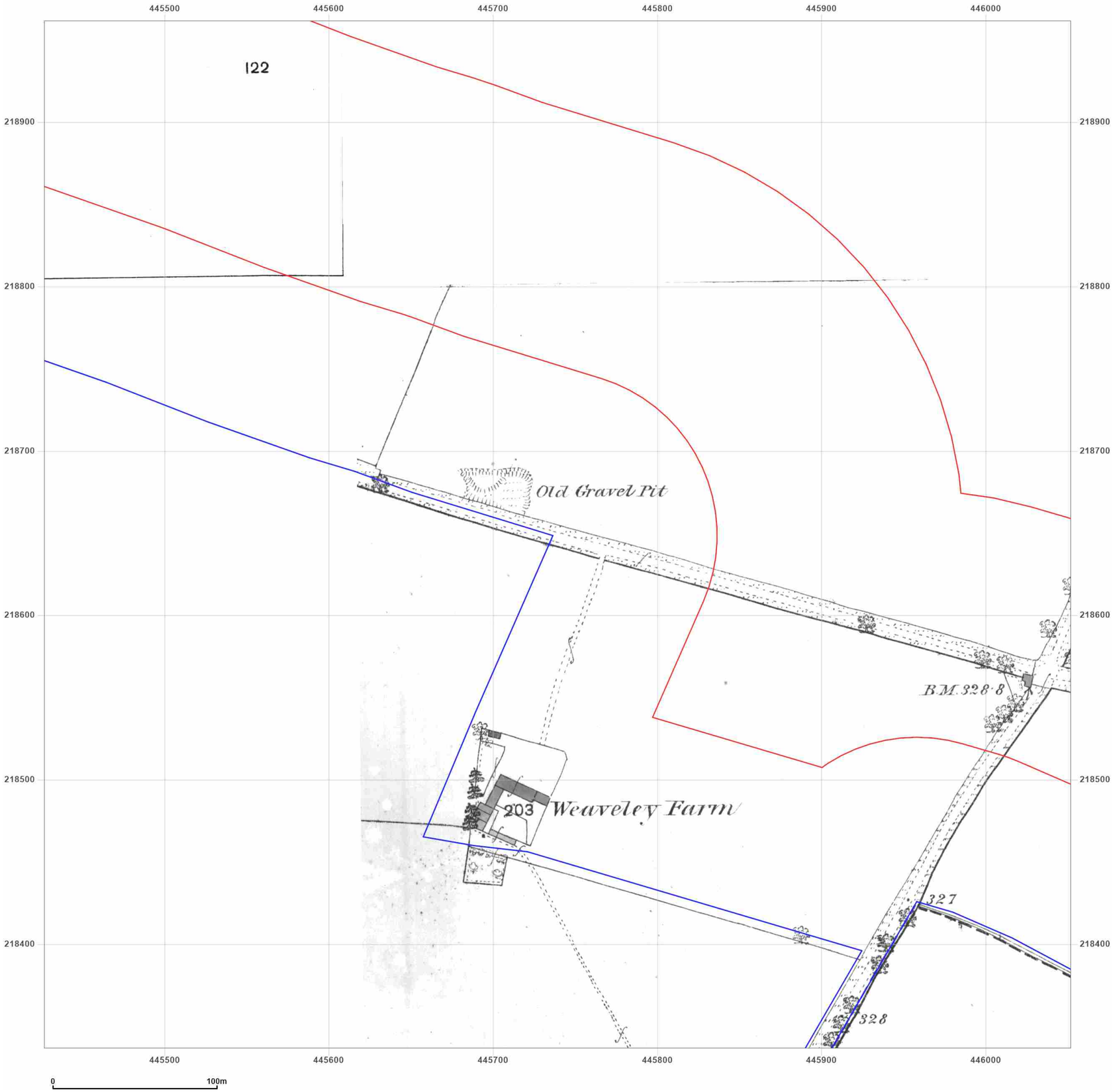
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_3_3
Grid Ref: 445739, 218649

Map Name: County Series

Map date: **1878-1880**

Scale: 1:2,500

Printed at: 1:2,500

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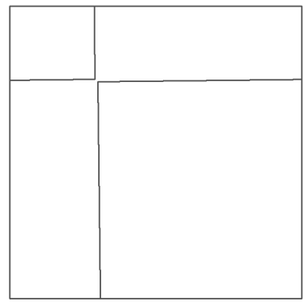
Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1878
Revised 1878
Edition N/A
Copyright N/A
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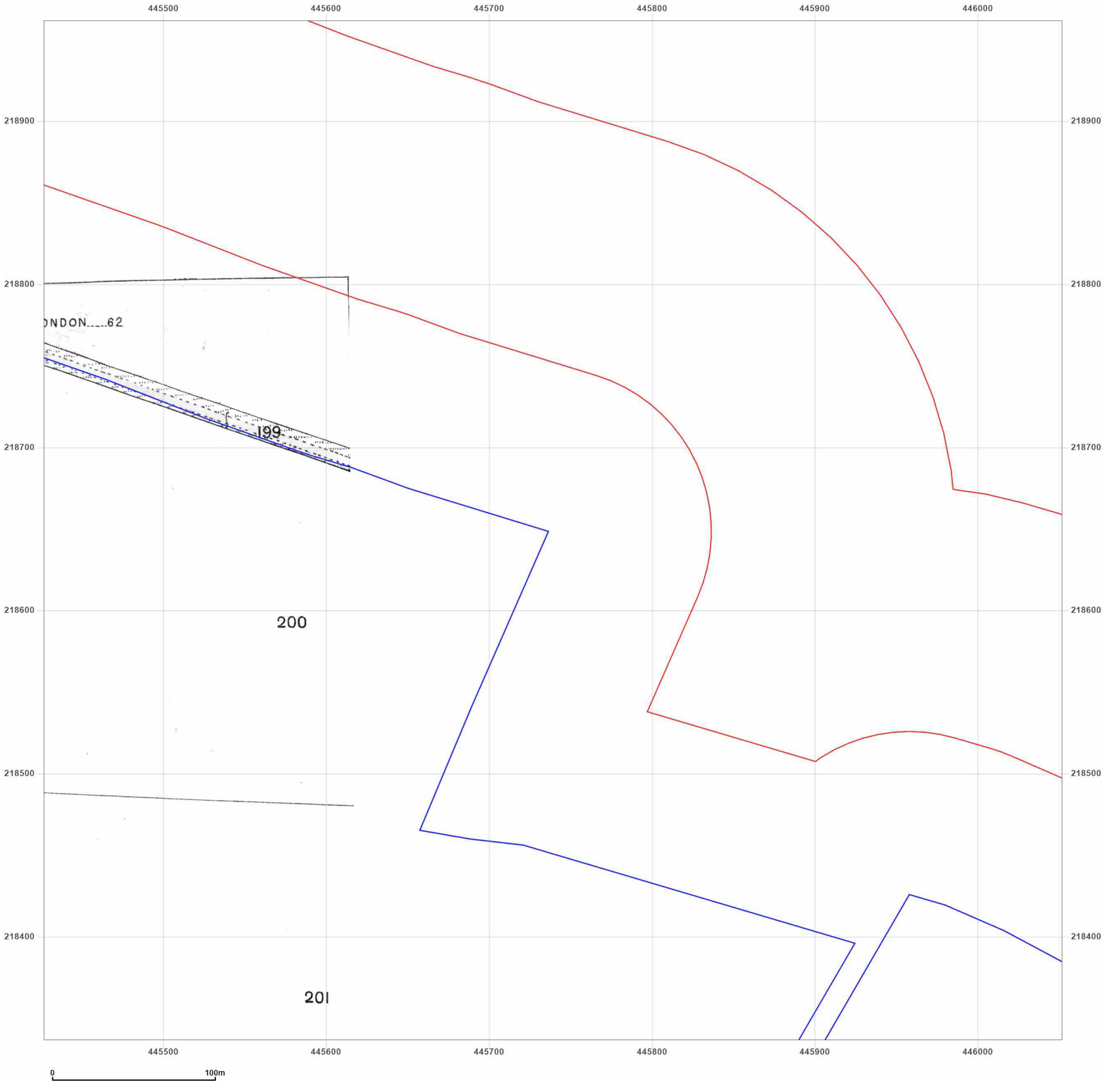
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_3_3
Grid Ref: 445739, 218649

Map Name: County Series

Map date: **1886**

Scale: 1:2,500

Printed at: 1:2,500

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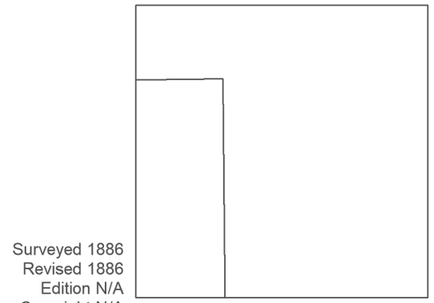

Surveyed 1886
Revised 1886
Edition N/A
Copyright N/A
Levelled N/A

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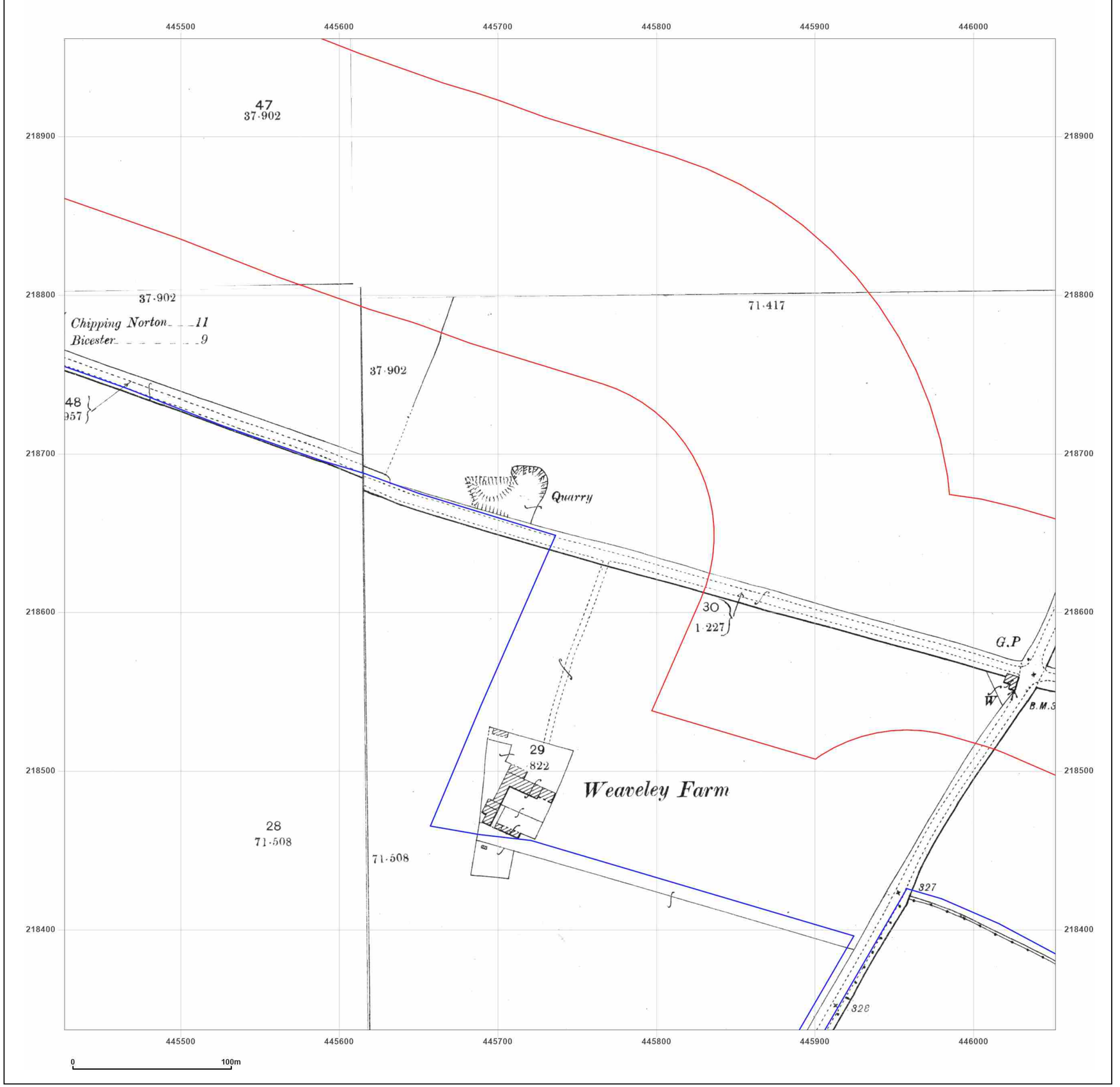
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_3_3
Grid Ref: 445739, 218649

Map Name: County Series

Map date: **1898-1899**

Scale: 1:2,500

Printed at: 1:2,500

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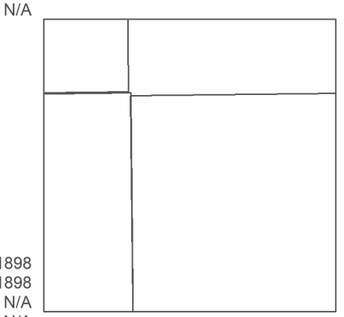
Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 24 May 2022

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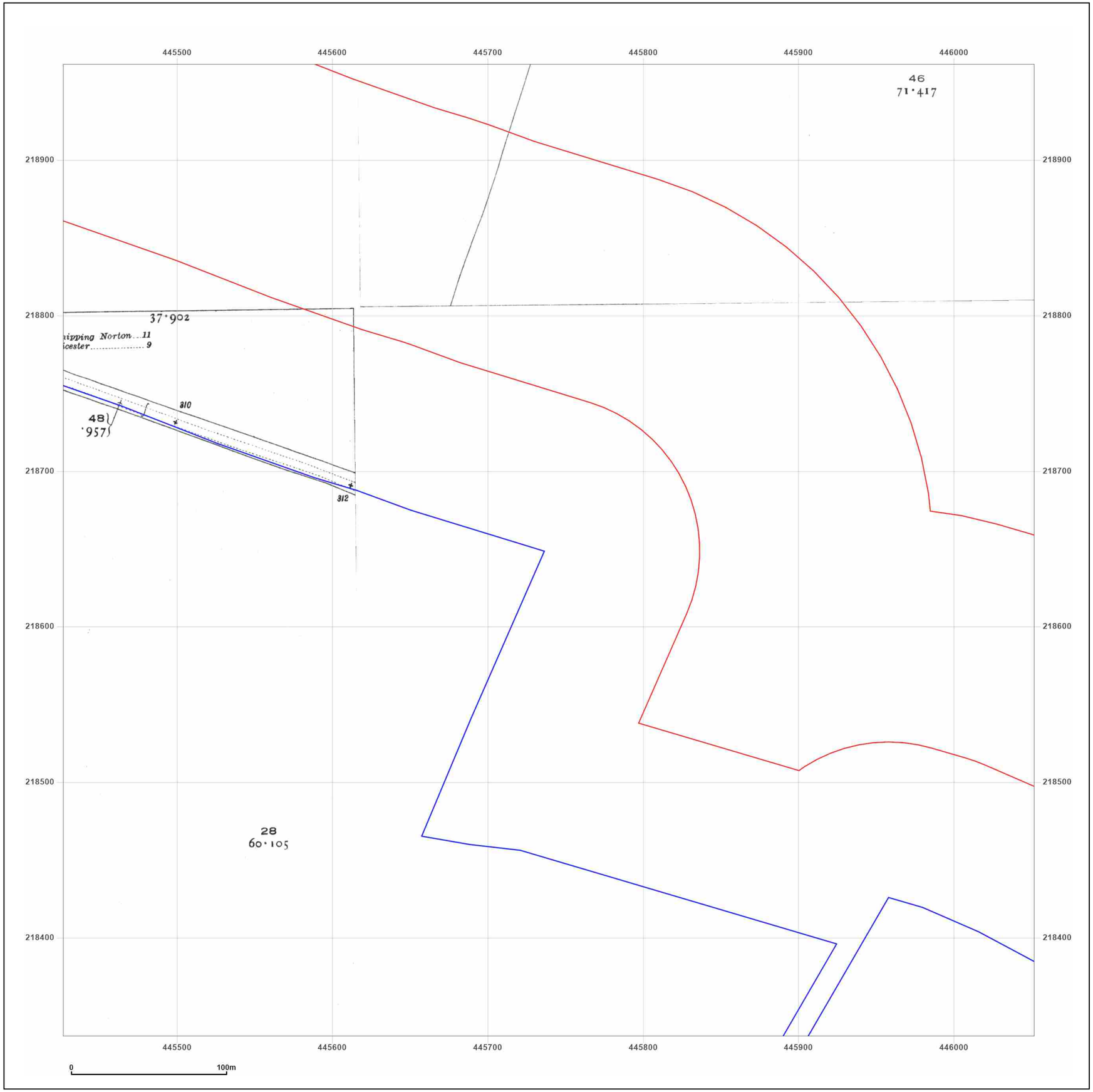

Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_3_3
Grid Ref: 445739, 218649

Map Name: County Series

Map date: 1922

Scale: 1:2,500

Printed at: 1:2,500

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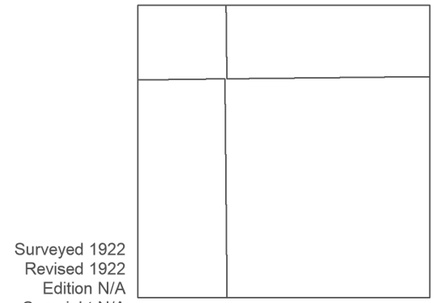
Surveyed 1922
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1922
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

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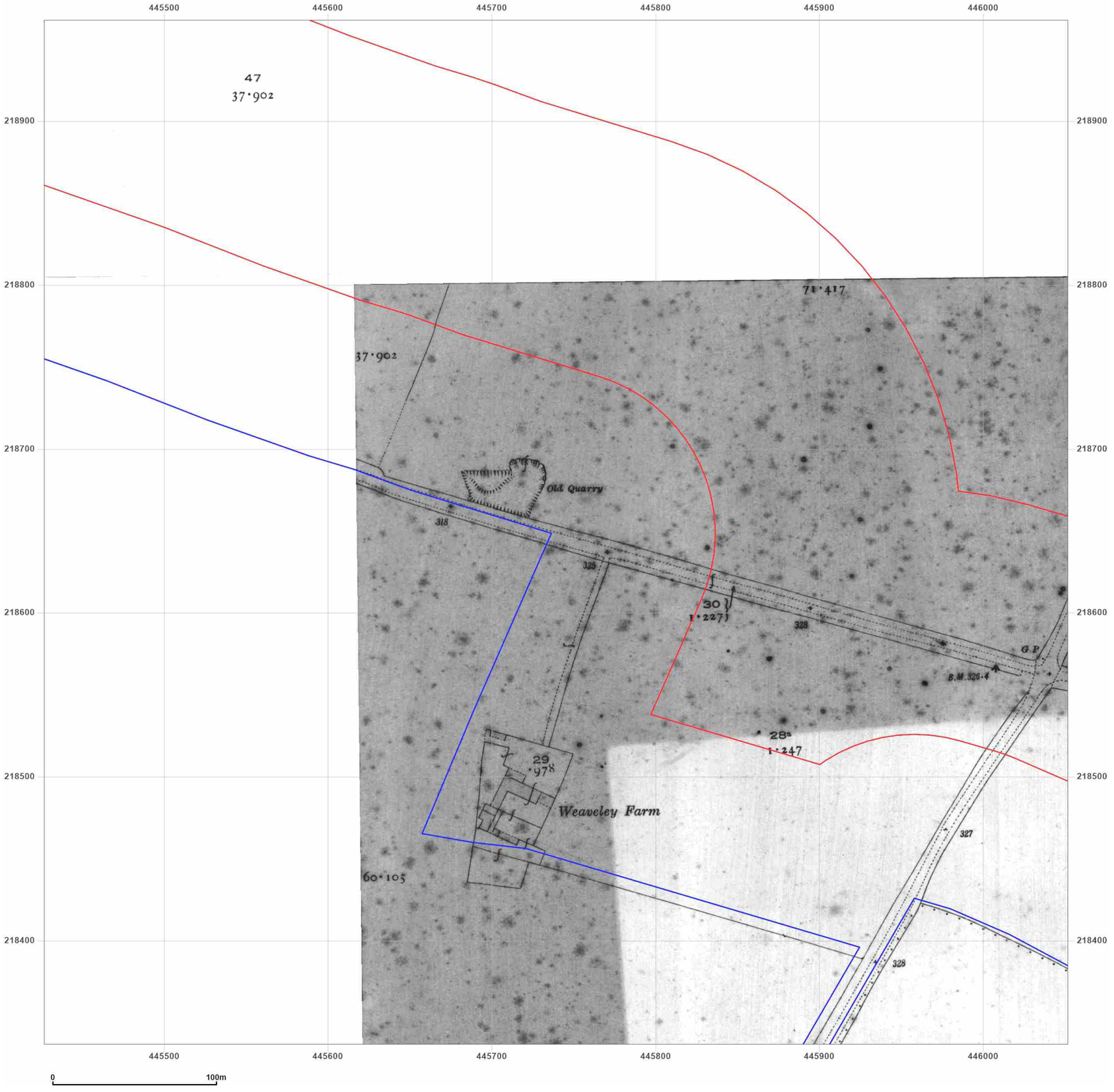
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_3_3
Grid Ref: 445739, 218649

Map Name: County Series

Map date: **1922**

Scale: 1:2,500

Printed at: 1:2,500

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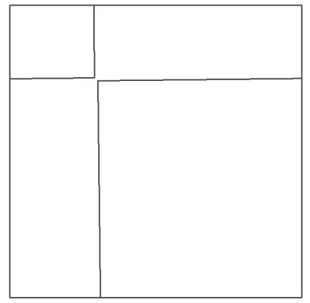
Surveyed 1922
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1922
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

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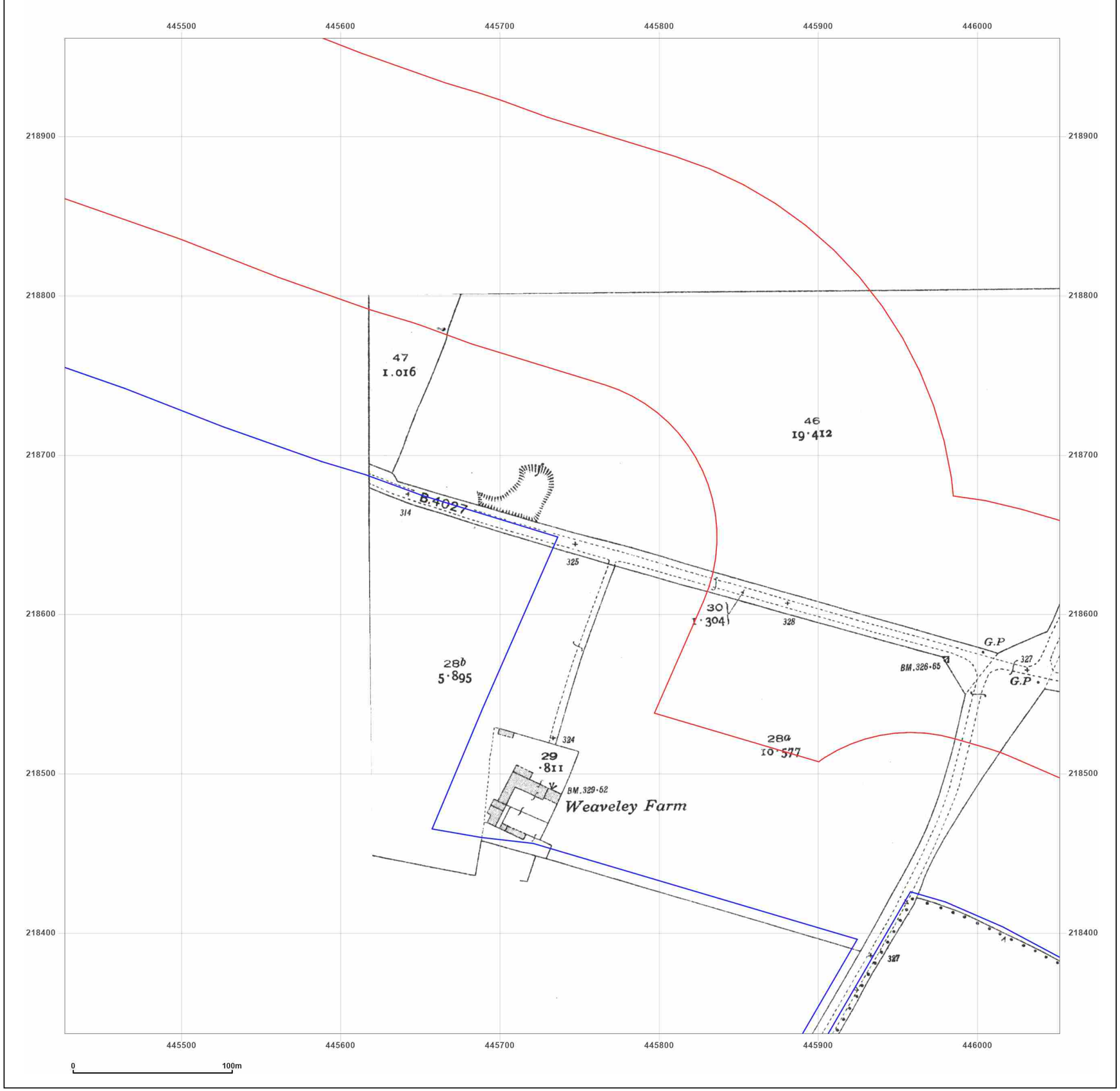
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_3_3
Grid Ref: 445739, 218649

Map Name: County Series

Map date: **1937**

Scale: 1:2,500

Printed at: 1:2,500

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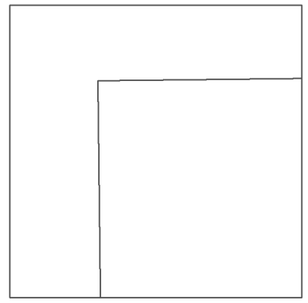

Surveyed 1937
Revised 1937
Edition N/A
Copyright N/A
Levelled N/A

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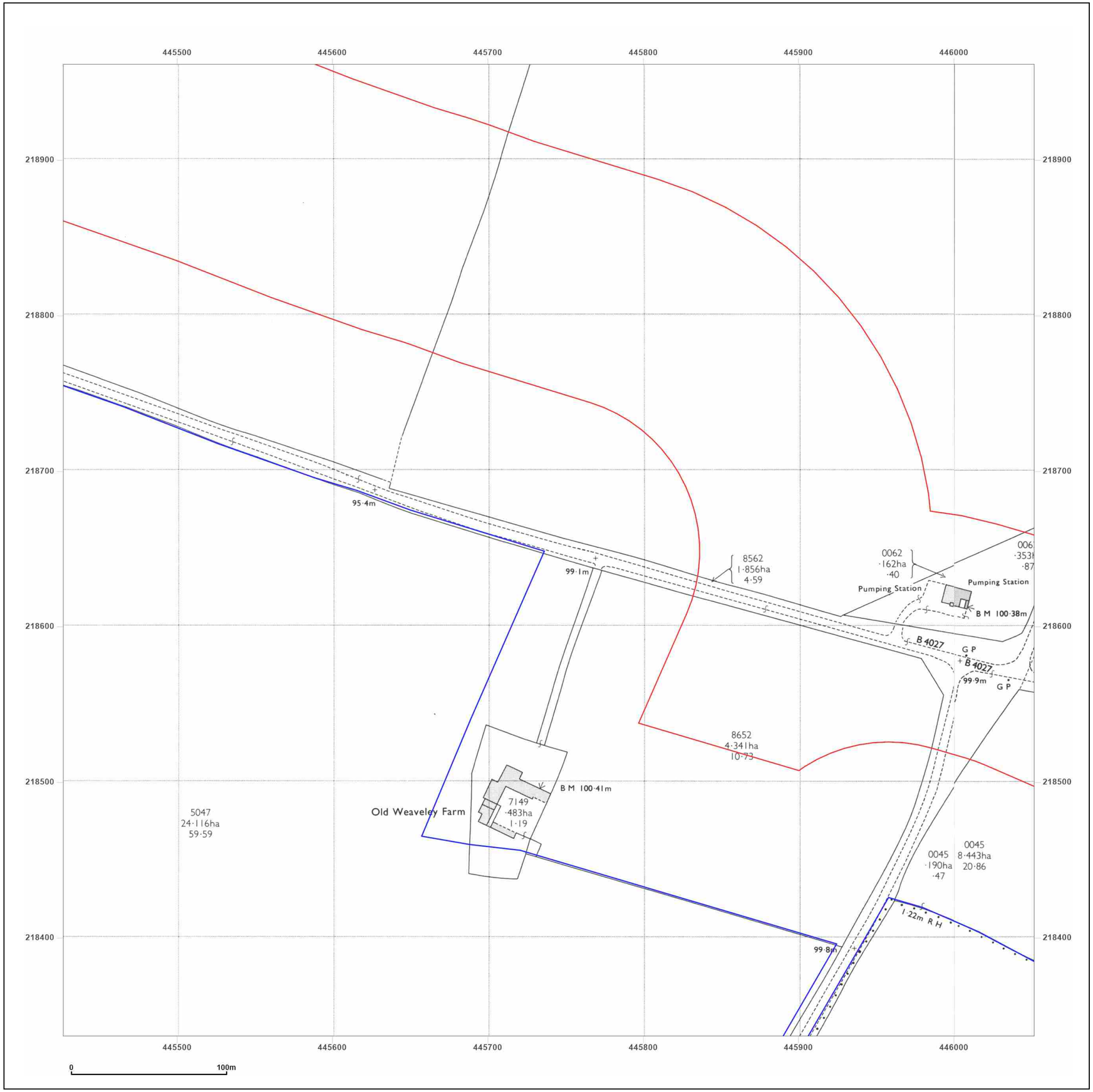
Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_3_3
Grid Ref: 445739, 218649

Map Name: National Grid

Map date: **1974-1975**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1972
Revised 1972
Edition N/A
Copyright 1974
Levelled 1970

Surveyed N/A
Revised 1973
Edition N/A
Copyright 1975
Levelled 1971

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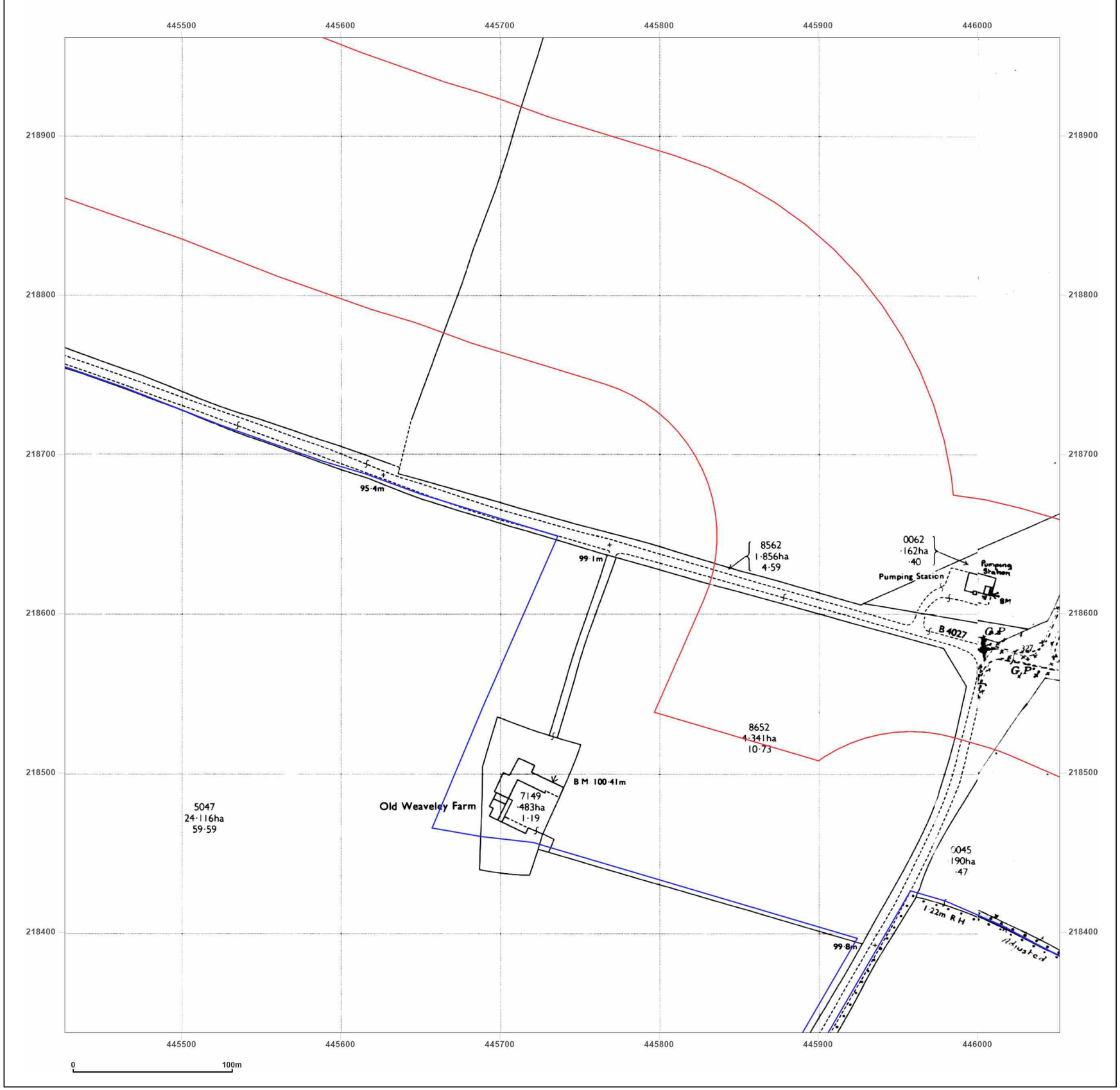
W: www.groundsure.com

Production date: 24 May 2022

Map legend available at: [redacted]



Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_3_3
Grid Ref: 445739, 218649

Map Name: National Grid

Map date: **1974-1975**

Scale: 1:2,500

Printed at: 1:2,500

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

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
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Production date: 24 May 2022

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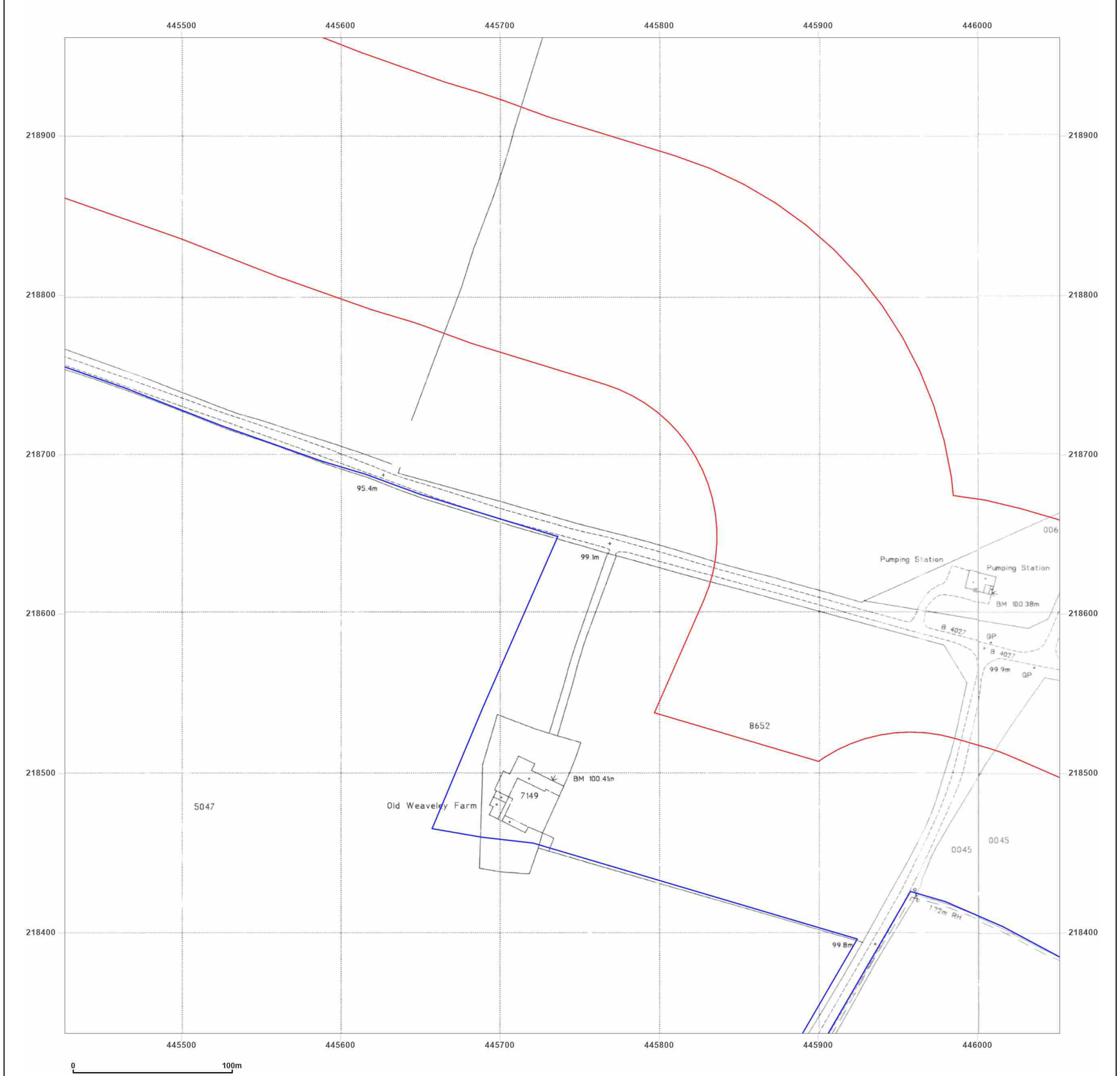

Groundsure INSIGHTS

Site Details:

North - BM Solar

Client Ref: North - BM Solar
Report Ref: GSIP-2022-12757-10507_LS_3_3
Grid Ref: 445739, 218649

Map Name: National Grid

Map date: **1994**

Scale: 1:2,500

Printed at: 1:2,500

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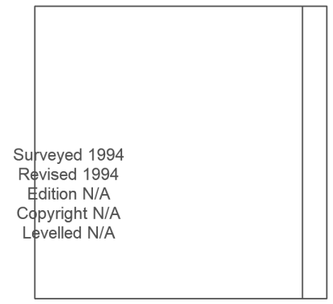

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Production date: 24 May 2022

Map legend available at: [redacted]

Annex D
Groundsure Insights Environmental Data Reports

Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

North - BM Solar

Order Details

Date: 24/05/2022

Your ref: North - BM Solar

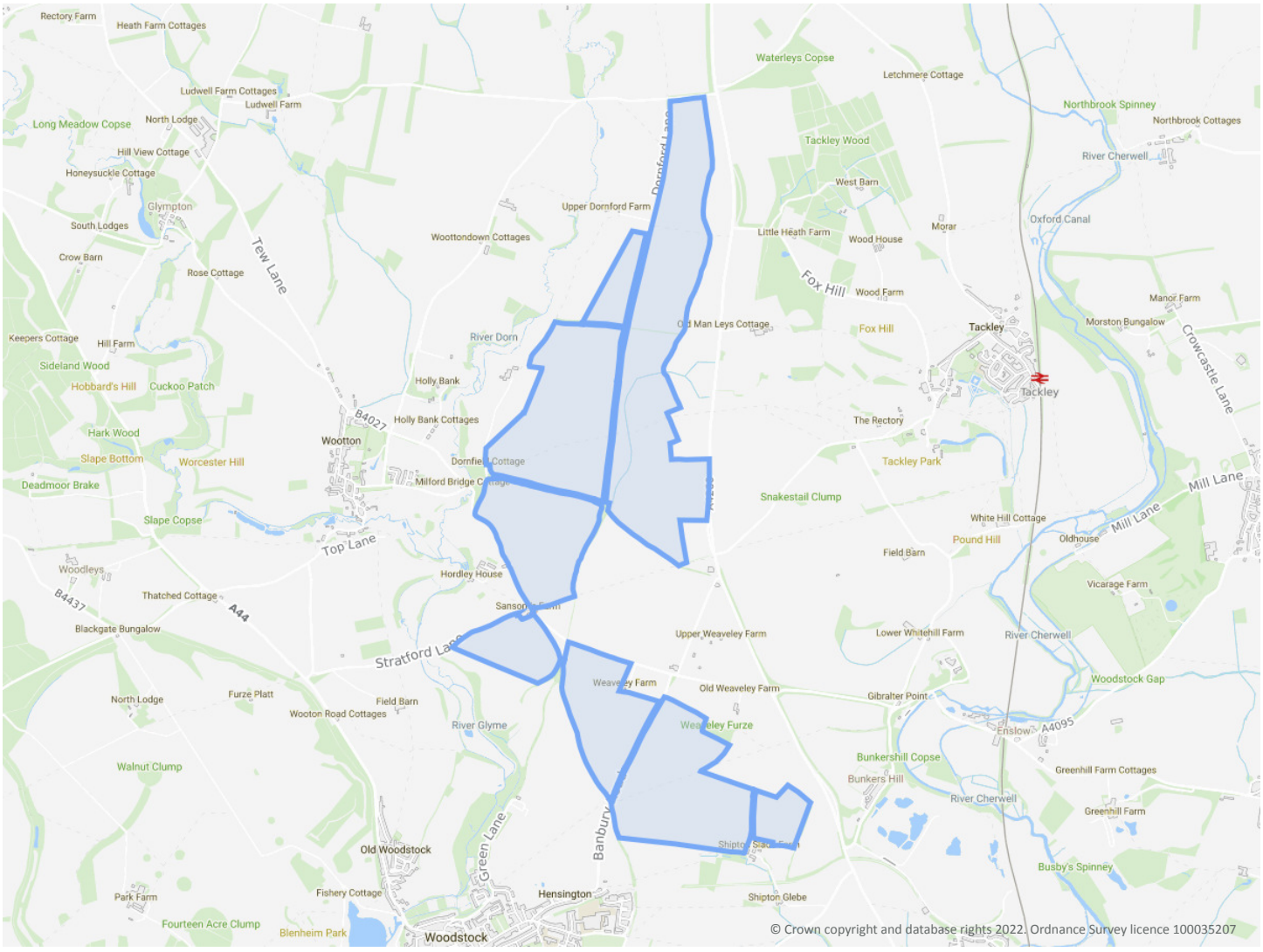
Our Ref: GSIP-2022-12757-10508

Site Details

Location: 445616 219467

Area: 370.24 ha

Authority: Cherwell District Council, West Oxfordshire District Council



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

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	Historical industrial land uses	6	12	7	39	-
16	1.2	Historical tanks	0	0	0	8	-
17	1.3	Historical energy features	0	0	0	0	-
17	1.4	Historical petrol stations	0	0	0	0	-
17	1.5	Historical garages	0	0	1	0	-
18	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
19	2.1	Historical industrial land uses	6	16	7	47	-
22	2.2	Historical tanks	0	0	0	9	-
23	2.3	Historical energy features	0	0	0	0	-
23	2.4	Historical petrol stations	0	0	0	0	-
23	2.5	Historical garages	0	0	1	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
25	3.1	Active or recent landfill	0	0	0	1	-
26	3.2	Historical landfill (BGS records)	1	0	1	0	-
26	3.3	Historical landfill (LA/mapping records)	0	0	0	1	-
26	3.4	Historical landfill (EA/NRW records)	0	0	0	3	-
27	3.5	Historical waste sites	0	0	0	0	-
27	3.6	Licensed waste sites	0	0	0	0	-
28	3.7	Waste exemptions	20	5	18	33	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
34	4.1	Recent industrial land uses	1	0	5	-	-
35	4.2	Current or recent petrol stations	0	0	0	0	-
35	4.3	Electricity cables	0	0	0	0	-
35	4.4	Gas pipelines	0	0	0	0	-
35	4.5	Sites determined as Contaminated Land	0	0	0	0	-

36	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
36	4.7	Regulated explosive sites	0	0	0	0	-
36	4.8	Hazardous substance storage/usage	0	0	0	0	-
36	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
36	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
37	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
37	4.12	Radioactive Substance Authorisations	0	0	0	0	-
37	**4.13**	**Licensed Discharges to controlled waters**	8	5	11	5	-
41	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
42	4.15	Pollutant release to public sewer	0	0	0	0	-
42	4.16	List 1 Dangerous Substances	0	0	0	0	-
42	4.17	List 2 Dangerous Substances	0	0	0	0	-
42	**4.18**	**Pollution Incidents (EA/NRW)**	0	0	2	0	-
43	4.19	Pollution inventory substances	0	0	0	0	-
43	4.20	Pollution inventory waste transfers	0	0	0	0	-
43	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
44	**5.1**	**Superficial aquifer**	Identified (within 500m)				
46	**5.2**	**Bedrock aquifer**	Identified (within 500m)				
50	**5.3**	**Groundwater vulnerability**	Identified (within 50m)				
57	**5.4**	**Groundwater vulnerability- soluble rock risk**	Identified (within 0m)				
59	5.5	Groundwater vulnerability- local information	None (within 0m)				
60	**5.6**	**Groundwater abstractions**	0	0	0	0	15
64	**5.7**	**Surface water abstractions**	0	0	0	4	6
66	**5.8**	**Potable abstractions**	0	0	0	4	1
68	5.9	Source Protection Zones	0	0	0	0	-
68	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
69	**6.1**	**Water Network (OS MasterMap)**	7	8	31	-	-

73	6.2	Surface water features	1	4	10	-	-
73	6.3	WFD Surface water body catchments	4	-	-	-	-
74	6.4	WFD Surface water bodies	0	0	2	-	-
75	6.5	WFD Groundwater bodies	3	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
76	7.1	Risk of flooding from rivers and the sea	Medium (within 50m)				
77	7.2	Historical Flood Events	0	0	0	-	-
77	7.3	Flood Defences	0	0	0	-	-
77	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
77	7.5	Flood Storage Areas	0	0	0	-	-
78	7.6	Flood Zone 2	Identified (within 50m)				
79	7.7	Flood Zone 3	Identified (within 50m)				
Page	Section	Surface water flooding					
80	8.1	Surface water flooding	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
82	9.1	Groundwater flooding	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
83	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	1	3
84	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
84	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
84	10.4	Special Protection Areas (SPA)	0	0	0	0	0
85	10.5	National Nature Reserves (NNR)	0	0	0	0	0
85	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
85	10.7	Designated Ancient Woodland	0	0	1	0	30
86	10.8	Biosphere Reserves	0	0	0	0	0
87	10.9	Forest Parks	0	0	0	0	0
87	10.10	Marine Conservation Zones	0	0	0	0	0
87	10.11	Green Belt	0	0	0	1	1
87	10.12	Proposed Ramsar sites	0	0	0	0	0

88	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
88	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
88	10.15	Nitrate Sensitive Areas	0	0	0	0	0
88	**10.16**	**Nitrate Vulnerable Zones**	3	0	0	2	2
90	**10.17**	**SSSI Impact Risk Zones**	11	-	-	-	-
94	**10.18**	**SSSI Units**	0	0	0	1	3
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
96	11.1	World Heritage Sites	0	0	0	-	-
97	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
97	11.3	National Parks	0	0	0	-	-
97	**11.4**	**Listed Buildings**	0	1	6	-	-
98	**11.5**	**Conservation Areas**	1	0	0	-	-
98	**11.6**	**Scheduled Ancient Monuments**	2	0	0	-	-
99	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
100	**12.1**	**Agricultural Land Classification**	Grade 3b (within 250m)				
102	12.2	Open Access Land	0	0	0	-	-
102	**12.3**	**Tree Felling Licences**	0	0	1	-	-
102	**12.4**	**Environmental Stewardship Schemes**	3	5	4	-	-
103	**12.5**	**Countryside Stewardship Schemes**	1	1	4	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
104	**13.1**	**Priority Habitat Inventory**	6	6	35	-	-
106	**13.2**	**Habitat Networks**	1	0	3	-	-
107	13.3	Open Mosaic Habitat	0	0	0	-	-
107	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
108	**14.1**	**10k Availability**	Identified (within 500m)				
109	14.2	Artificial and made ground (10k)	0	0	0	0	-
110	14.3	Superficial geology (10k)	0	0	0	0	-

110	14.4	Landslip (10k)	0	0	0	0	-
111	14.5	Bedrock geology (10k)	0	0	0	0	-
111	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
112	**15.1**	**50k Availability**	Identified (within 500m)				
113	**15.2**	**Artificial and made ground (50k)**	0	0	0	1	-
114	15.3	Artificial ground permeability (50k)	0	0	-	-	-
115	**15.4**	**Superficial geology (50k)**	2	1	2	3	-
116	**15.5**	**Superficial permeability (50k)**	Identified (within 50m)				
116	15.6	Landslip (50k)	0	0	0	0	-
116	15.7	Landslip permeability (50k)	None (within 50m)				
117	**15.8**	**Bedrock geology (50k)**	30	2	9	16	-
120	**15.9**	**Bedrock permeability (50k)**	Identified (within 50m)				
121	**15.10**	**Bedrock faults and other linear features (50k)**	2	2	4	2	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
123	**16.1**	**BGS Boreholes**	1	1	15	-	-
Page	Section	Natural ground subsidence					
125	**17.1**	**Shrink swell clays**	Moderate (within 50m)				
127	**17.2**	**Running sands**	Low (within 50m)				
129	**17.3**	**Compressible deposits**	Moderate (within 50m)				
131	**17.4**	**Collapsible deposits**	Very low (within 50m)				
132	**17.5**	**Landslides**	Moderate (within 50m)				
134	**17.6**	**Ground dissolution of soluble rocks**	Low (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
136	18.1	Natural cavities	0	0	0	0	-
137	**18.2**	**BritPits**	0	3	0	4	-
138	**18.3**	**Surface ground workings**	6	23	8	-	-
140	18.4	Underground workings	0	0	0	0	0
140	**18.5**	**Historical Mineral Planning Areas**	1	0	0	2	-

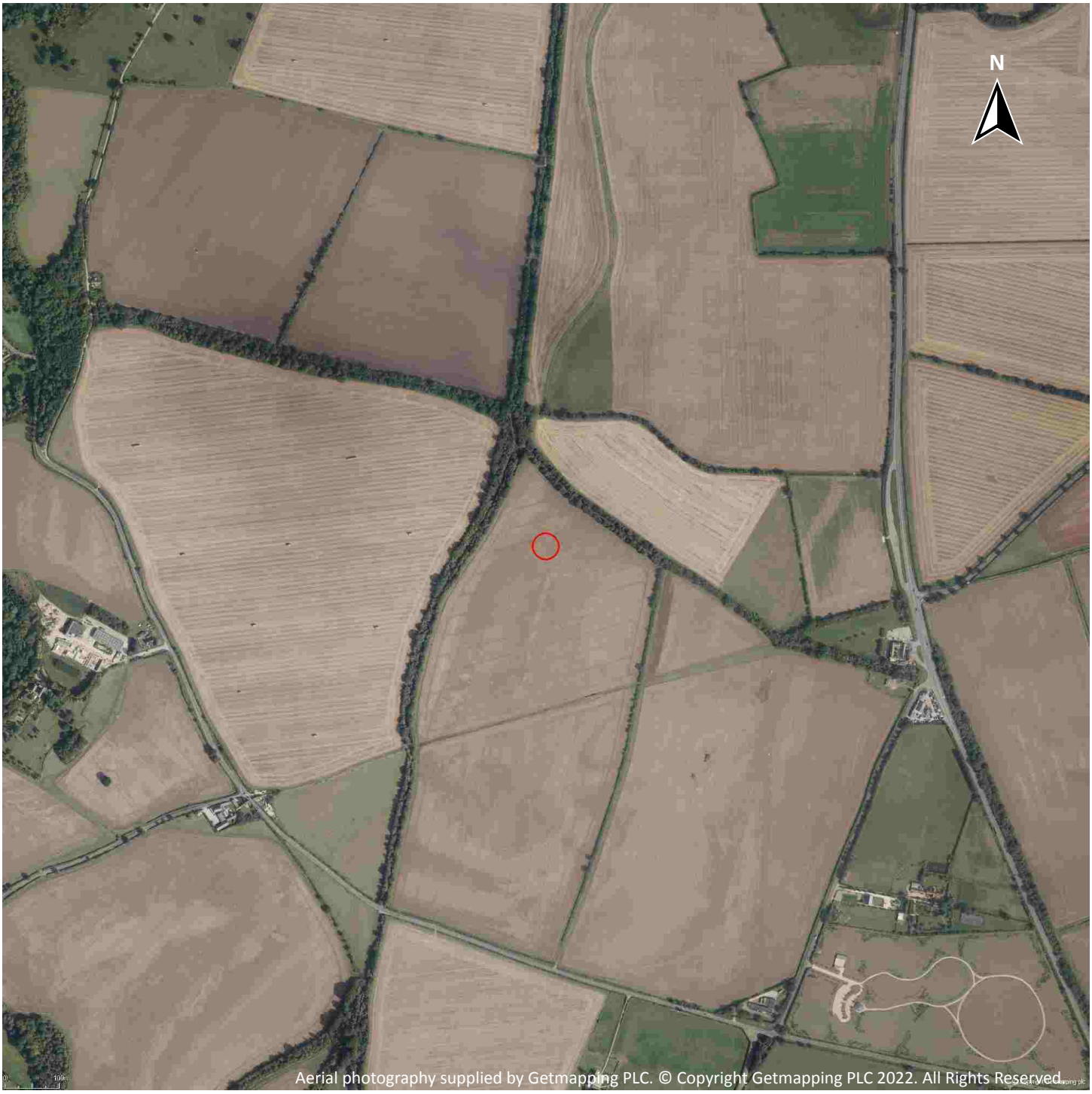
140	18.6	Non-coal mining	0	0	0	0	0
140	18.7	Mining cavities	0	0	0	0	0
141	18.8	JPB mining areas	None (within 0m)				
141	18.9	Coal mining	None (within 0m)				
141	18.10	Brine areas	None (within 0m)				
141	18.11	Gypsum areas	None (within 0m)				
141	18.12	Tin mining	None (within 0m)				
142	18.13	Clay mining	None (within 0m)				

Page	Section	Radon	
143	**19.1**	**Radon**	Between 5% and 10% (within 0m)

Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
145	**20.1**	**BGS Estimated Background Soil Chemistry**	140	22	-	-	-
154	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
154	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-

Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
155	21.1	Underground railways (London)	0	0	0	-	-
155	21.2	Underground railways (Non-London)	0	0	0	-	-
156	21.3	Railway tunnels	0	0	0	-	-
156	21.4	Historical railway and tunnel features	0	0	0	-	-
156	21.5	Royal Mail tunnels	0	0	0	-	-
156	**21.6**	**Historical railways**	0	0	1	-	-
157	21.7	Railways	0	0	0	-	-
157	21.8	Crossrail 1	0	0	0	0	-
157	21.9	Crossrail 2	0	0	0	0	-
157	21.10	HS2	0	0	0	0	-

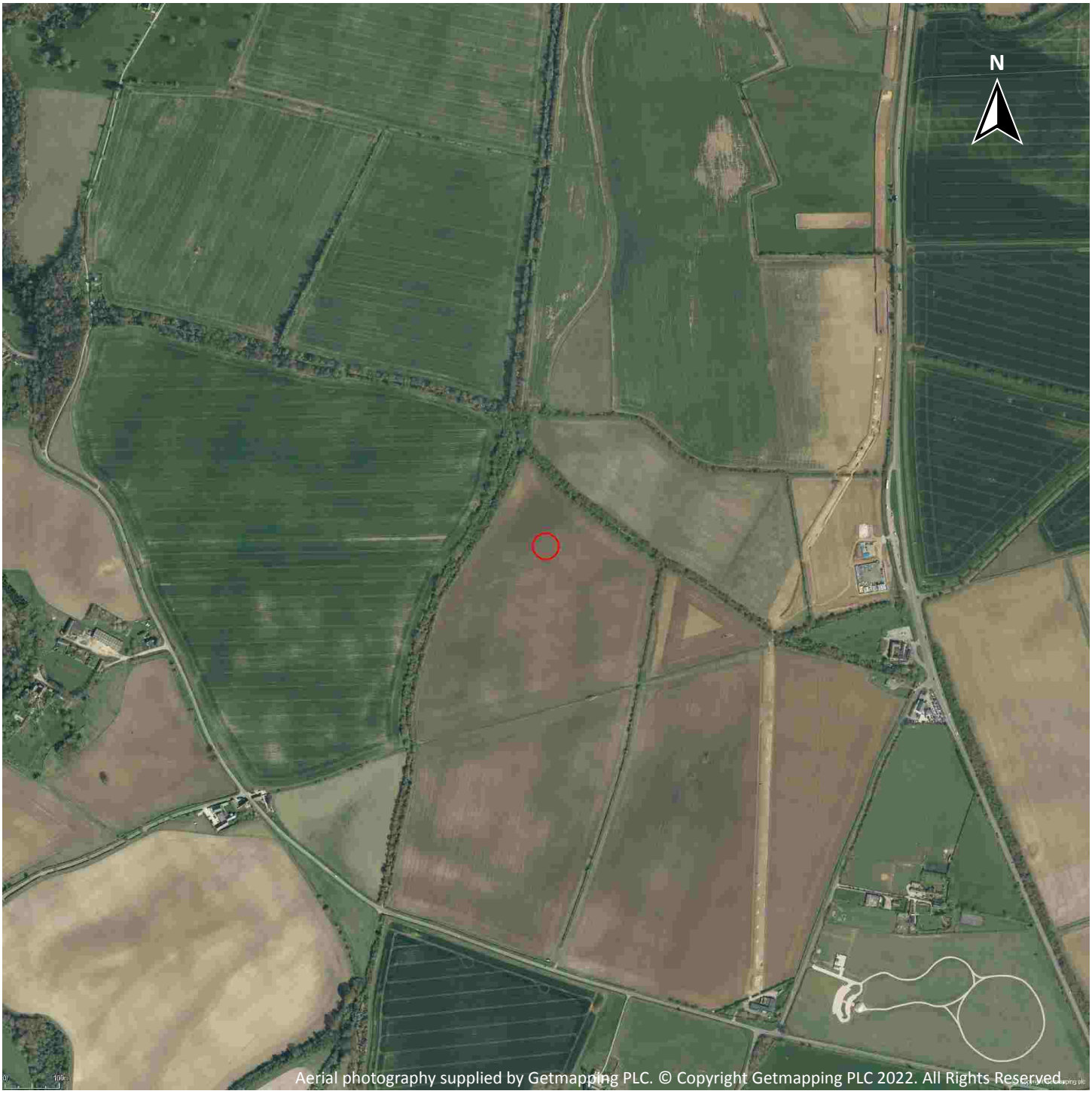
Recent aerial photograph



Capture Date: 24/08/2019

Site Area: 370.24ha

Recent site history - 2016 aerial photograph



Capture Date: 20/04/2016

Site Area: 370.24ha

Recent site history - 2009 aerial photograph

Capture Date: 19/08/2009

Site Area: 370.24ha

Recent site history - 2000 aerial photograph

Capture Date: 12/08/2000

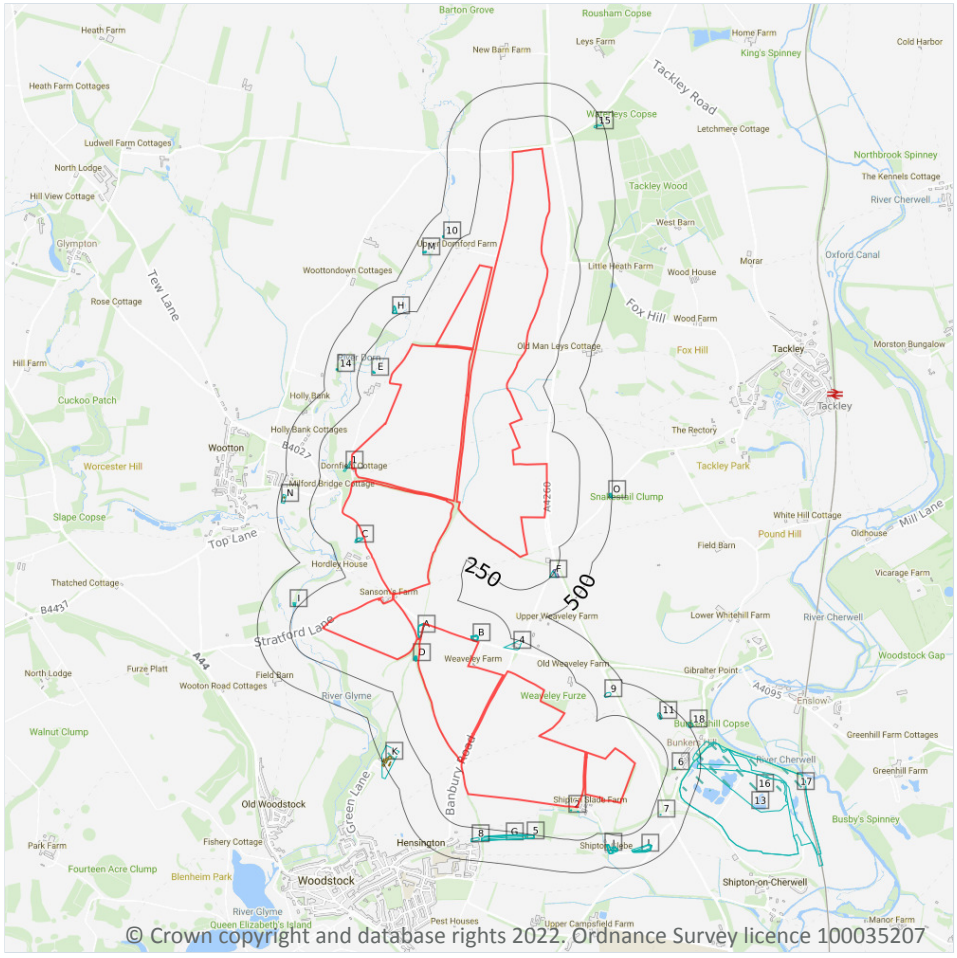
Site Area: 370.24ha

Recent site history - 1999 aerial photograph

Capture Date: 02/09/1999

Site Area: 370.24ha

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 13**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Pit**	**1880 - 1898**	**1804683**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Old Quarry**	**1923**	**1806525**
A	**On site**	**Unspecified Old Quarry**	**1950**	**1828988**
A	**On site**	**Unspecified Old Quarry**	**1938**	**1839305**
A	**On site**	**Unspecified Old Quarry**	**1919**	**1845699**
B	**On site**	**Unspecified Old Quarry**	**1923 - 1950**	**1841746**
B	3m N	Unspecified Old Quarry	1919	1849172
1	4m W	Cuttings	1880	1751487
B	7m N	Unspecified Quarry	1898	1762776
B	9m N	Sand Pit	1876	1753272
C	10m SW	Old Clay Pit	1923 - 1950	1845601
D	16m W	Unspecified Pit	1923	1828047
D	16m W	Unspecified Pit	1919	1829182
D	16m W	Unspecified Pit	1938	1834562
D	18m W	Unspecified Pit	1880	1826621
2	26m S	Unspecified Tank	1919 - 1923	1781709
3	29m S	Unspecified Tank	1950	1769062
C	30m SW	Unspecified Disused Pit	1978	1766694
E	126m W	Pumping Engine House	1880	1813420
E	126m W	Pumping Engine House	1923	1817929
E	134m W	Pumping Engine House	1950	1820915
E	139m W	Pumping Engine House	1900	1799032
4	174m N	Pumping Station	1978	1766071
F	233m SE	Garage	1978	1780271
5	249m S	Cuttings	1923 - 1950	1802313
G	252m S	Cuttings	1898	1821466
G	253m S	Cuttings	1919	1802260
G	258m S	Refuse Heap	1978	1770806
G	261m S	Cuttings	1923 - 1950	1807186

ID	Location	Land use	Dates present	Group ID
H	266m NW	Unspecified Old Quarry	1923 - 1950	1822396
H	266m NW	Unspecified Pit	1880	1778261
I	268m NW	Pump House	1923	1779984
I	276m NW	Disused Pump House	1978	1779859
6	302m E	Filter Bed	1978	1753233
7	313m E	Railway Building	1950	1765355
8	319m S	Cuttings	1978	1751470
J	329m S	Unspecified Pit	1923	1778275
J	329m S	Unspecified Old Quarries	1919	1832630
J	330m S	Cuttings	1898	1752545
9	330m NE	Unspecified Heap	1950	1756910
J	334m S	Unspecified Old Quarries	1950	1782084
J	337m S	Unspecified Old Quarries	1919	1796355
J	338m S	Unspecified Old Quarries	1923	1799211
J	338m S	Unspecified Old Quarries	1898	1785812
10	347m NW	Disused Pump House	1978	1779856
K	353m SW	Sewage Works	1978	1760003
L	368m S	Unspecified Old Quarries	1898 - 1919	1799369
L	377m S	Unspecified Old Quarries	1923	1782098
11	377m NE	Unspecified Heap	1950	1756904
12	380m E	Cement Works	1950 - 1978	1841794
13	380m E	Limestone Quarry	1978	1778902
L	381m SE	Unspecified Old Quarries	1950	1800089
M	404m NW	Pump House	1900 - 1923	1805689
14	407m W	Disused Pump House	1977	1779860
M	418m NW	Pump House	1978	1800211
K	425m SW	Unspecified Tanks	1978	1761676
15	428m E	Unspecified Quarry	1875	1762788

ID	Location	Land use	Dates present	Group ID
N	444m W	Sewage Works	1978	1760004
N	452m W	Unspecified Tank	1978	1769060
16	472m E	Unspecified Quarry	1950	1799403
17	474m E	Railway Sidings	1950 - 1978	1825617
O	476m E	Unspecified Old Quarry	1950	1810464
O	481m E	Unspecified Old Quarry	1898 - 1923	1839730
18	490m NE	Unspecified Heap	1978	1756903

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**8**

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 13**

ID	Location	Land use	Dates present	Group ID
K	425m SW	Unspecified Tank	1994	284940
K	446m SW	Tanks	1972	287692
N	452m W	Unspecified Tank	1972 - 1994	289564
K	454m SW	Unspecified Tank	1994	284938
K	458m SW	Tanks	1972	287693
K	473m SW	Unspecified Tank	1994	284937
K	480m SW	Tanks	1972	287695
K	498m SW	Tanks	1972	287694

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	1

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 13**

ID	Location	Land use	Dates present	Group ID
F	235m SE	Garage	1972	54847

This data is sourced from Ordnance Survey / Groundsure.

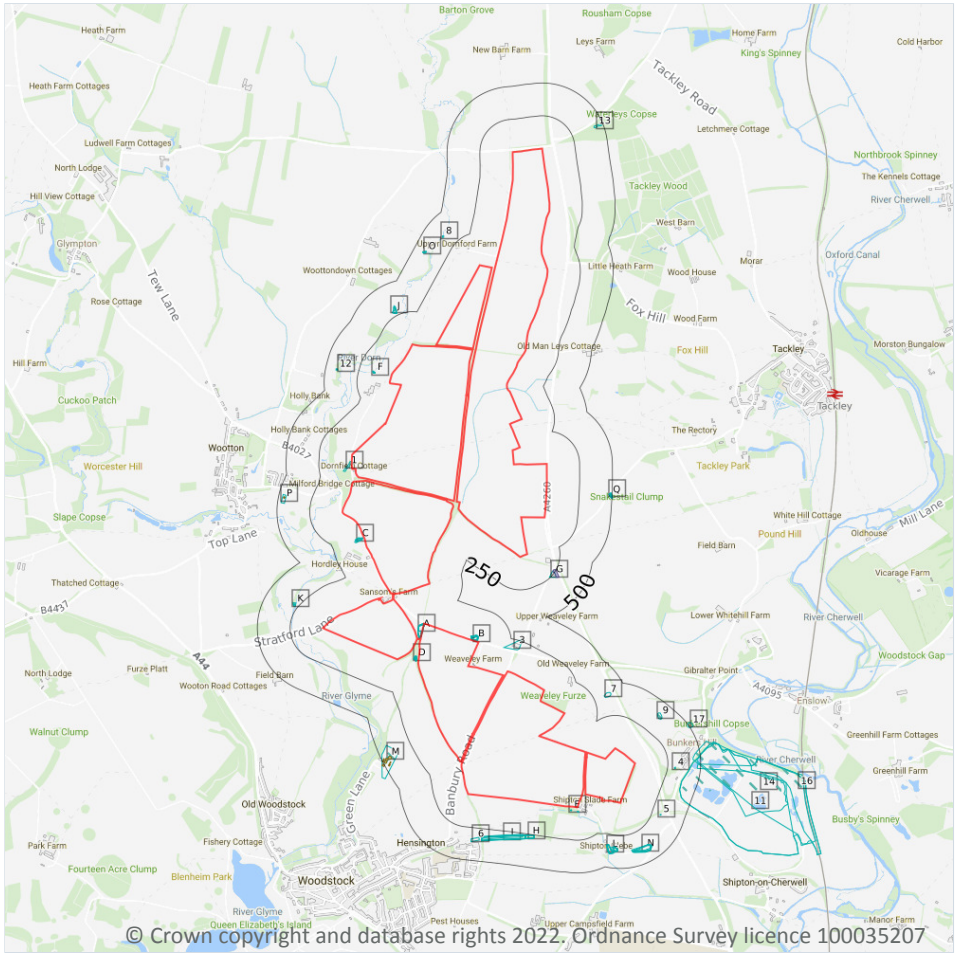
1.6 Historical military land

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



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical garages

2.1 Historical industrial land uses

Records within 500m	76

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

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

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Pit**	**1898**	**1804683**
A	**On site**	**Unspecified Old Quarry**	**1923**	**1806525**
A	**On site**	**Unspecified Old Quarry**	**1950**	**1828988**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Old Quarry**	**1938**	**1839305**
A	**On site**	**Unspecified Old Quarry**	**1919**	**1845699**
B	**On site**	**Unspecified Old Quarry**	**1923**	**1841746**
B	3m N	Unspecified Old Quarry	1919	1849172
1	4m W	Cuttings	1880	1751487
A	4m W	Unspecified Pit	1880	1804683
B	7m N	Unspecified Quarry	1898	1762776
B	9m N	Sand Pit	1876	1753272
B	9m N	Unspecified Old Quarry	1950	1841746
C	10m SW	Old Clay Pit	1950	1845601
D	16m W	Unspecified Pit	1923	1828047
D	16m W	Unspecified Pit	1938	1834562
D	16m W	Unspecified Pit	1919	1829182
D	18m W	Unspecified Pit	1880	1826621
C	19m W	Old Clay Pit	1923	1845601
E	26m S	Unspecified Tank	1923	1781709
E	26m S	Unspecified Tank	1919	1781709
2	29m S	Unspecified Tank	1950	1769062
C	30m SW	Unspecified Disused Pit	1978	1766694
F	126m W	Pumping Engine House	1923	1817929
F	126m W	Pumping Engine House	1880	1813420
F	134m W	Pumping Engine House	1950	1820915
F	139m W	Pumping Engine House	1900	1799032
3	174m N	Pumping Station	1978	1766071
G	233m SE	Garage	1978	1780271
H	249m S	Cuttings	1923	1802313
I	252m S	Cuttings	1898	1821466
I	253m S	Cuttings	1919	1802260

ID	Location	Land Use	Date	Group ID
H	253m S	Cuttings	1950	1802313
I	258m S	Refuse Heap	1978	1770806
I	261m S	Cuttings	1923	1807186
I	265m S	Cuttings	1950	1807186
J	266m NW	Unspecified Old Quarry	1923	1822396
J	266m NW	Unspecified Old Quarry	1950	1822396
J	266m NW	Unspecified Pit	1880	1778261
K	268m NW	Pump House	1923	1779984
K	276m NW	Disused Pump House	1978	1779859
4	302m E	Filter Bed	1978	1753233
5	313m E	Railway Building	1950	1765355
6	319m S	Cuttings	1978	1751470
L	329m S	Unspecified Pit	1923	1778275
L	329m S	Unspecified Old Quarries	1919	1832630
L	330m S	Cuttings	1898	1752545
7	330m NE	Unspecified Heap	1950	1756910
L	334m S	Unspecified Old Quarries	1950	1782084
L	337m S	Unspecified Old Quarries	1919	1796355
L	338m S	Unspecified Old Quarries	1923	1799211
L	338m S	Unspecified Old Quarries	1898	1785812
8	347m NW	Disused Pump House	1978	1779856
M	353m SW	Sewage Works	1978	1760003
N	368m S	Unspecified Old Quarries	1919	1799369
N	374m S	Unspecified Old Quarries	1898	1799369
N	377m S	Unspecified Old Quarries	1923	1782098
9	377m NE	Unspecified Heap	1950	1756904
10	380m E	Cement Works	1978	1841794
11	380m E	Limestone Quarry	1978	1778902

ID	Location	Land Use	Date	Group ID
N	381m SE	Unspecified Old Quarries	1950	1800089
O	404m NW	Pump House	1900	1805689
12	407m W	Disused Pump House	1977	1779860
O	410m NW	Pump House	1923	1805689
O	418m NW	Pump House	1978	1800211
M	425m SW	Unspecified Tanks	1978	1761676
13	428m E	Unspecified Quarry	1875	1762788
14	442m E	Cement Works	1950	1841794
P	444m W	Sewage Works	1978	1760004
P	452m W	Unspecified Tank	1978	1769060
15	472m E	Unspecified Quarry	1950	1799403
16	474m E	Railway Sidings	1978	1825617
Q	476m E	Unspecified Old Quarry	1950	1810464
Q	481m E	Unspecified Old Quarry	1923	1839730
Q	481m E	Unspecified Old Quarry	1923	1839730
Q	481m E	Unspecified Old Quarry	1898	1839730
17	490m NE	Unspecified Heap	1978	1756903

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**9**

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

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

ID	Location	Land Use	Date	Group ID
M	425m SW	Unspecified Tank	1994	284940
M	446m SW	Tanks	1972	287692
P	452m W	Unspecified Tank	1972	289564

ID	Location	Land Use	Date	Group ID
P	452m W	Unspecified Tank	1994	289564
M	454m SW	Unspecified Tank	1994	284938
M	458m SW	Tanks	1972	287693
M	473m SW	Unspecified Tank	1994	284937
M	480m SW	Tanks	1972	287695
M	498m SW	Tanks	1972	287694

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	1

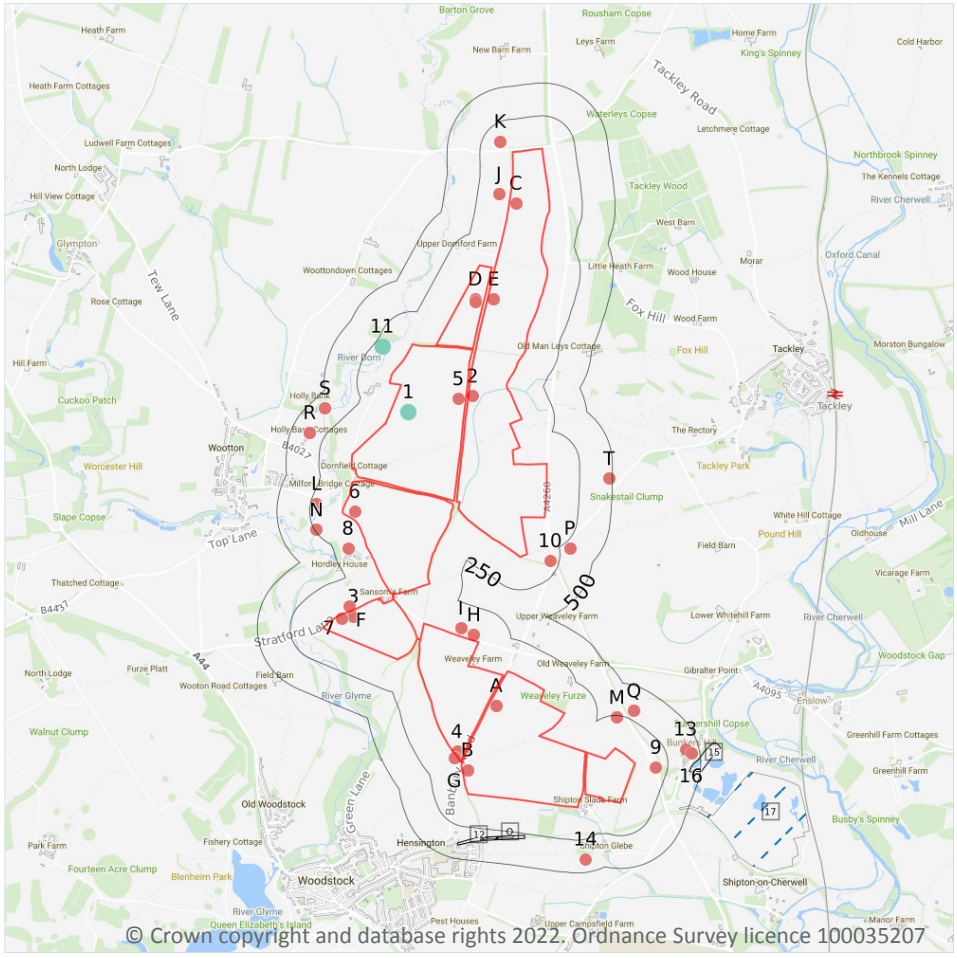
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

ID	Location	Land Use	Date	Group ID
G	235m SE	Garage	1972	54847

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

- Active or recent landfill
- Historical landfill (EA/NRW)
- Historical landfill (BGS)
- Historical landfill (LA/OS)
- Waste exemptions

3.1 Active or recent landfill

Records within 500m	1

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

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

ID	Location	Details	
17	435m E	Operator: Earthline Ltd Site Address: Shipton Quarry, Shipton On Cherwell, Oxfordshire, OX5 3EL	WML Number: 100826 EPR Reference: EAR030 Landfill type: L05: Inert LF Status: Modified IPPC Reference: - EPR Number: EA/EPR/GB3431AD/V002

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

3.2 Historical landfill (BGS records)

Records within 500m	2

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.

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

ID	Location	Address	BGS Number	Risk	Waste Type
1	**On site**	**Abingdon Rd, Oxford, Oxon**	**161**	**Risk to minor aquifer**	**N/A**
11	191m NW	Trap Grounds, Walton Well Rd, Oxford, Oxon	160	Risk to minor aquifer	N/A

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	1

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

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

ID	Location	Site address	Source	Data type
O	277m S	Refuse Tip	1972 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	3

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 25**

ID	Location	Details		
O	262m S	Site Address: Hensington Railway Cutting, Hensington - Cherwell Licence Holder Address: -	Waste Licence: Yes Site Reference: TP0420, W10017, OCC/032, 13.6.4517 Waste Type: Inert, Industrial, Commercial, Household, Special, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 12/01/1979 Licence Surrender: -	Operator: J Curtis and Sons Licence Holder: - First Recorded 31/12/1979 Last Recorded: 31/12/1980
12	319m S	Site Address: Hensington Railway Cutting, Railway Cutting, Hesington Licence Holder Address: -	Waste Licence: Yes Site Reference: OCC/032, TP0421, W10017, 13.6.4517 Waste Type: Inert, Industrial, Commercial, Household, Special, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 12/01/1979 Licence Surrender: -	Operator: J Curtis and Sons Licence Holder: J Curtis and Sons First Recorded 31/12/1979 Last Recorded: 31/12/1980
15	418m E	Site Address: Cement Works, Shipton-On-Cherwell, Oxfordshire Licence Holder Address: -	Waste Licence: Yes Site Reference: TP0525, W10026, OCC/014 Waste Type: Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 28/11/1977 Licence Surrender: 15/03/1993	Operator: Ass Portland Cement Licence Holder: Ass Portland Cement First Recorded 31/12/1977 Last Recorded: 31/12/1990

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

3.5 Historical waste sites

Records within 500m	**0**

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

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

3.6 Licensed waste sites

Records within 500m	**0**

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

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

3.7 Waste exemptions

Records within 500m	76

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

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

ID	Location	Site	Reference	Category	Sub-Category	Description
2	On site	-	WEX001978	Storing waste exemption	On a farm	Storage of sludge
3	On site	-	WEX143637	Storing waste exemption	On a farm	Storage of sludge
4	On site	-	WEX213340	Storing waste exemption	On a Farm	Storage of sludge
5	On site	Lower Dornford Farm WOODSTOCK Oxfordshire OX20 1ES	EPR/LE5942CP/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
6	On site	Lower Dornford Farm WOODSTOCK Oxfordshire OX20 1ES	EPR/AE5356AK/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
A	On site	-	WEX222364	Storing waste exemption	On a farm	Storage of sludge
A	On site	Perdiswell Farm Shipton Road Shipton on Cherwell Oxfordshire OX20 1QJ	EPR/CE5241EB/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
B	On site	-	WEX258126	Storing waste exemption	On a farm	Storage of sludge
B	On site	Perdiswell Farm	WEX068627	Storing waste exemption	On a farm	Storage of sludge
B	On site	Perdiswell Farm Woodstock OX20 1QJ	EPR/AE5749NH/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
C	On site	-	WEX102501	Storing waste exemption	On a farm	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
C	**On site**	**Woottondown Farm Wootton Oxon OX20 1AF**	**EPR/JE5141EX/A001**	**Storing waste exemption**	**Non-Agricultural Waste Only**	**Storage of sludge**
C	**On site**	**Woottondown Farm Wootton Bicester Oxon OX20 1AF**	**EPR/JE5982JT/A001**	**Storing waste exemption**	**Non-Agricultural Waste Only**	**Storage of sludge**
D	**On site**	**-**	**WEX102502**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
D	**On site**	**Woottondown Farm Wootton Bicester Oxon OX20 1AF**	**EPR/JE5882JG/A001**	**Storing waste exemption**	**Non-Agricultural Waste Only**	**Storage of sludge**
E	**On site**	**-**	**WEX102503**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
E	**On site**	**Woottondown Farm Wootton Oxon OX20 1AF**	**EPR/JE5741EA/A001**	**Storing waste exemption**	**Non-Agricultural Waste Only**	**Storage of sludge**
E	**On site**	**Woottondown Farm Wootton Bicester Oxon OX20 1AF**	**EPR/JE5482JQ/A001**	**Storing waste exemption**	**Non-Agricultural Waste Only**	**Storage of sludge**
F	**On site**	**CLEARWATER COURT, VASTERN ROAD, READING, RG1 8DB**	**WEX096425**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
F	**On site**	**Hordley Farm Wooton**	**EPR/AE5387QU/A001**	**Storing waste exemption**	**Non-Agricultural Waste Only**	**Storage of sludge**
G	29m SW	-	WEX213332	Storing waste exemption	On a Farm	Storage of sludge
G	29m SW	-	WEX292830	Storing waste exemption	On a farm	Storage of sludge
7	37m N	-	WEX143636	Storing waste exemption	On a farm	Storage of sludge
H	39m N	-	WEX219969	Storing waste exemption	On a farm	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
H	39m N	-	WEX143638	Storing waste exemption	On a farm	Storage of sludge
I	55m N	CLEARWATER COURT, VASTERN ROAD, READING, RG1 8DB	WEX096424	Storing waste exemption	On a farm	Storage of sludge
I	55m N	Hordley Farm Wooton	EPR/WE5287QB/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
J	89m W	-	WEX102500	Storing waste exemption	On a farm	Storage of sludge
J	89m W	Woottondown Farm Bicester Oxon OX20 1AF	EPR/ME5148VV/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
J	89m W	Woottondown Farm Wootton Bicester Oxon OX20 1AF	EPR/JE5382JY/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
K	123m NW	-	WEX120078	Storing waste exemption	On a farm	Storage of sludge
K	123m NW	Land @ SP4590022460 New Barrn Farm, Oxford Road	EPR/HE5088AV/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
8	142m W	-	WEX143640	Storing waste exemption	On a farm	Storage of sludge
9	161m E	Bunkers Hill A4260 Oxfordshire OX5 3BA	EPR/TF0508ZM/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
10	183m E	BANBURY ROAD, TACKLEY, KIDLINGTON, OX5 3EP	WEX149679	Using waste exemption	Not on a farm	Use of waste in construction
L	206m W	-	WEX083162	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
L	206m W	-	WEX083162	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
L	206m W	-	WEX083162	Disposing of waste exemption	On a farm	Burning waste in the open
M	230m N	-	WEX142757	Storing waste exemption	On a farm	Storage of sludge

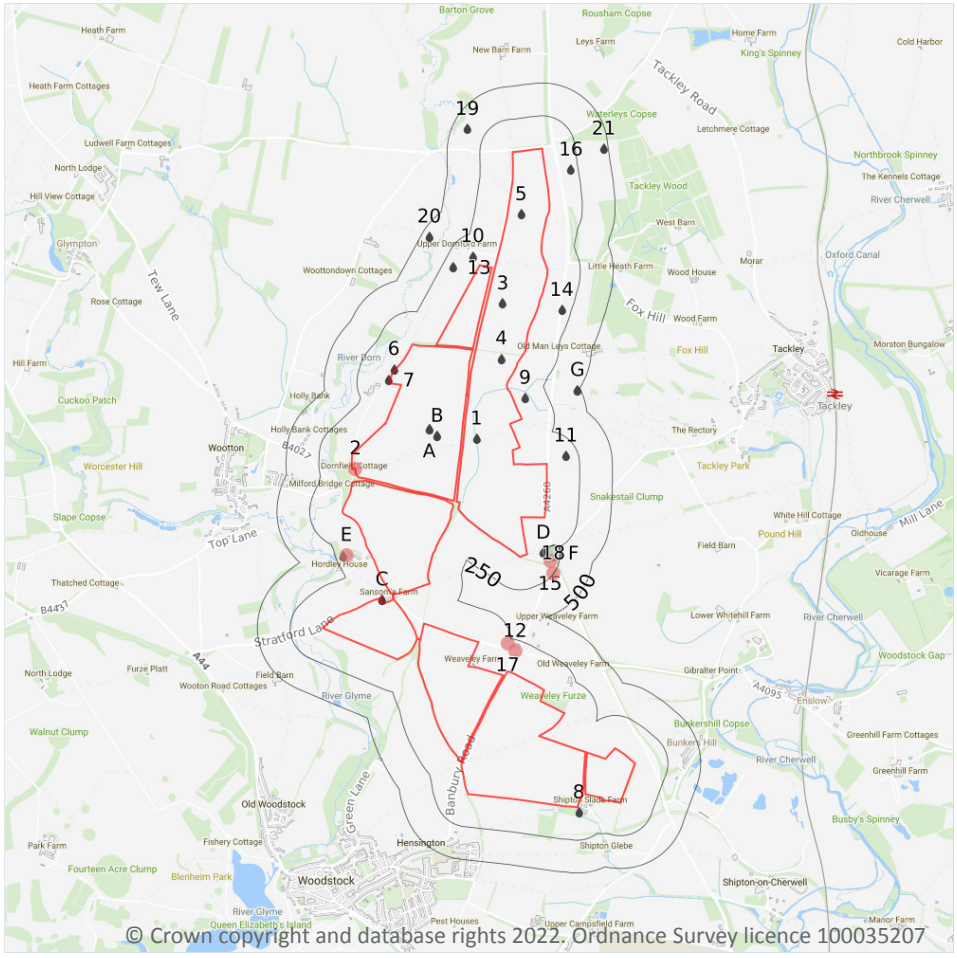
ID	Location	Site	Reference	Category	Sub-Category	Description
M	230m N	Perdiswell Farm Woodstock OX20 1QJ	EPR/SE5386LV/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
N	242m SW	8 Manor Court WOODSTOCK Oxfordshire OX20 1EU	EPR/LF0631EN/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
N	242m SW	8 Manor Court WOODSTOCK Oxfordshire OX20 1EU	EPR/LF0631EN/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
N	242m SW	8 Manor Court WOODSTOCK Oxfordshire OX20 1EU	EPR/LF0631EN/A001	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
P	306m SE	-	WEX286154	Storing waste exemption	On a Farm	Storage of sludge
P	306m SE	-	WEX120079	Storing waste exemption	On a farm	Storage of sludge
P	306m SE	Field Barn KIDLINGTON Oxfordshire OX5 3AD	EPR/ME5282WF/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
Q	314m NE	-	WEX142756	Storing waste exemption	On a farm	Storage of sludge
Q	314m NE	Perdiswell Farm Woodstock OX201QJ	EPR/SE5286LN/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
R	363m NW	Holly Bank Estate, Wootton, Woodstock, OX20 1AE	WEX113177	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
R	363m NW	Holly Bank Estate, Wootton, Woodstock, OX20 1AE	WEX113177	Disposing of waste exemption	On a farm	Burning waste in the open
R	363m NW	Holly Bank Estate, Wootton, Woodstock, OX20 1AE	WEX113177	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
R	363m NW	Holly Bank Estate, Wootton, Woodstock, OX20 1AE	WEX113177	Using waste exemption	On a farm	Use of waste in construction
R	363m NW	Holly Bank Estate, Wootton, Woodstock, OX20 1AE	WEX113177	Using waste exemption	On a farm	Use of waste for a specified purpose

ID	Location	Site	Reference	Category	Sub-Category	Description
13	396m E	-	WEX246956	Using waste exemption	Not on a farm	Use of waste in construction
S	397m NW	Leys Farm Leys Road OX2 9QF	EPR/FH0772UC/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
S	397m NW	Leys Farm Leys Road OX2 9QF	EPR/FH0772UC/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
S	397m NW	Leys Farm Leys Road OX2 9QF	EPR/FH0772UC/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
S	397m NW	Leys Farm Leys Road OX2 9QF	EPR/FH0772UC/A001	Storing waste exemption	Agricultural Waste Only	Storage of waste in a secure place
S	397m NW	Leys Farm Leys Road OX2 9QF	EPR/FH0772UC/A001	Treating waste exemption	Agricultural Waste Only	Cleaning, washing, spraying or coating relevant waste
S	397m NW	Leys Farm Leys Road OX2 9QF	EPR/FH0772UC/A001	Treating waste exemption	Agricultural Waste Only	Aerobic composting and associated prior treatment
S	397m NW	Leys Farm Leys Road OX2 9QF	EPR/FH0772UC/A001	Treating waste exemption	Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
S	397m NW	Leys Farm Leys Road OX2 9QF	EPR/FH0772UC/A001	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
S	397m NW	Leys Farm Leys Road OX2 9QF	EPR/FH0772UC/A001	Treating waste exemption	Agricultural Waste Only	Recovery of scrap metal
S	397m NW	Leys Farm Leys Road OX2 9QF	EPR/FH0772UC/A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction
S	397m NW	Leys Farm Leys Road OX2 9QF	EPR/FH0772UC/A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit
S	397m NW	Leys Farm Leys Road OX2 9QF	EPR/FH0772UC/A001	Using waste exemption	Agricultural Waste Only	Spreading waste on non-agricultural land to confer benefit
S	397m NW	Leys Farm Leys Road OX2 9QF	EPR/FH0772UC/A001	Using waste exemption	Agricultural Waste Only	Use of mulch
S	397m NW	Leys Farm Leys Road OX2 9QF	EPR/FH0772UC/A001	Using waste exemption	Agricultural Waste Only	Spreading of plant matter to confer benefit
S	397m NW	Leys Farm Leys Road OX2 9QF	EPR/FH0772UC/A001	Using waste exemption	Agricultural Waste Only	Incorporation of ash into soil

ID	Location	Site	Reference	Category	Sub-Category	Description
S	397m NW	Leys Farm Leys Road OX2 9QF	EPR/FH0772UC/A001	Using waste exemption	Agricultural Waste Only	Burning of waste as a fuel in a small appliance
S	397m NW	Leys Farm Leys Road OX2 9QF	EPR/FH0772UC/A001	Using waste exemption	Agricultural Waste Only	Use of waste for a specified purpose
14	404m S	Perdiswell Farm Woodstock OX201QJ	EPR/AE5149NJ/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
16	432m E	The Old Scrap Yard, Bunkers hill, oxford, ox5 3ba	WEX125143	Using waste exemption	On a farm	Use of waste in construction
T	473m E	Field Barn Farm	WEX262551	Storing waste exemption	On a farm	Storage of sludge
T	473m E	-	WEX085456	Storing waste exemption	On a farm	Storage of sludge
T	473m E	Field Barn Farm Tackley Oxon OX53AD	EPR/UE5582WB/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge

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

4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m	6

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 34**

ID	Location	Company	Address	Activity	Category
2	**On site**	**Mast (Telecommunication)**	**Oxfordshire, OX20**	**Telecommunications Features**	**Infrastructure and Facilities**
12	164m N	Electricity Sub Station	Oxfordshire, OX5	Electrical Features	Infrastructure and Facilities
E	168m W	Hopper	Oxfordshire, OX20	Hoppers and Silos	Farming

ID	Location	Company	Address	Activity	Category
15	183m E	Oxford Car Body Repairs	Sturdys Castle Garage, Banbury Road, Tackley, Oxfordshire, OX5 3EP	Vehicle Repair, Testing and Servicing	Repair and Servicing
17	214m N	Pumping Station	Oxfordshire, OX5	Water Pumping Stations	Industrial Features
18	248m SE	Sturdys Castle Car Centre	Banbury Road, Tackley, Kidlington, Oxfordshire, OX5 3EP	Secondhand Vehicles	Motoring

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	0

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

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	29

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

Features are displayed on the Current industrial land use map on **page 34**

ID	Location	Address	Details	
1	**On site**	**GARSINGTON STW, GARSINGTON, OXON, GARSINGTON STW GARSINGTON OXON**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTCR.0439 Permit Version: 1 Receiving Water: TRIB OF BALDON BROOK**	**Status: REVOKED - UNSPECIFIED Issue date: 16/11/1960 Effective Date: 31/01/1985 Revocation Date: 10/12/1985**
3	**On site**	**STW, CHURCH FARM, HORTON-CUM-STUDLE, STW CHURCH FARM HORTON-CUM-STU, DLEY OXON**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTCR.0619 Permit Version: 1 Receiving Water: TRIB OF RAY**	**Status: REVOKED - UNSPECIFIED Issue date: 20/06/1963 Effective Date: 20/06/1963 Revocation Date: 14/11/1991**
4	**On site**	**FOREST HILL WWTW, POLECAT END LANE, FOREST HILL, OXFORD, OX33 1EH**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTCR.0173 Permit Version: 1 Receiving Water: TRIB OF MOORBIRGE BROOK**	**Status: REVOKED - UNSPECIFIED Issue date: 14/04/1955 Effective Date: 31/01/1985 Revocation Date: 10/11/1985**

ID	Location	Address	Details	
5	**On site**	**BICESTER CENTRAL ORDNANCE DEPOT STW, BICESTER CENTRAL ORDNANCE DEPOT, STW MERTON OXON**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTCP.0224 Permit Version: 1 Receiving Water: R RAV**	**Status: REVOKED - UNSPECIFIED Issue date: 21/11/1963 Effective Date: 21/11/1963 Revocation Date: 24/11/1986**
A	**On site**	**OXFORD WASTEWATER TREATMENT WORKS, GRENOBLE ROAD, SANDFORD-ON-THAMES, OXFORDSHIRE, OX4 4GP**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CTCR.0709 Permit Version: 1 Receiving Water: NORTHFIELD BROOK**	**Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 21/07/1964 Effective Date: 10/09/1980 Revocation Date: 17/12/1998**
A	**On site**	**OXFORD WASTEWATER TREATMENT WORKS, GRENOBLE ROAD, SANDFORD-ON-THAMES, OXFORDSHIRE, OX4 4GP**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CTCR.0709 Permit Version: 2 Receiving Water: NORTHFIELD BROOK**	**Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 21/07/1964 Effective Date: 18/12/1998 Revocation Date: 31/03/2005**
B	**On site**	**SANDFORD STW, SANDFORD, OXON, SANDFORD STW SANDFORD OXON**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTCR.0409 Permit Version: 1 Receiving Water: NORTHFIELD BROOK**	**Status: REVOKED - UNSPECIFIED Issue date: 13/04/1960 Effective Date: 31/01/1985 Revocation Date: 15/01/1986**
B	**On site**	**SCHOOL STW, VICARAGE ROAD, SOUTH WE, SCHOOL STW VICARAGE ROAD SOUTH, WEALD ESSEX**	**Effluent Type: MISCELLANEOUS DISCHARGES - UNSPECIFIED Permit Number: CEQU.0126 Permit Version: 1 Receiving Water: LONDON CLAYSTRATA**	**Status: REVOKED - UNSPECIFIED Issue date: 15/06/1967 Effective Date: 15/06/1967 Revocation Date: 28/08/1992**
C	8m NE	THE OXFORD SCHOOL OF DRAMA, SANSOMES FARM STUDIO, WOODSTOCK, OXFORD, OXFORDSHIRE, OX20 1ER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CAWM.1310 Permit Version: 1 Receiving Water: INTO LAND	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 30/05/2006 Effective Date: 12/05/2006 Revocation Date: 20/12/2012
C	8m NE	THE OXFORD SCHOOL OF DRAMA, SANSOMES FARM STUDIO, WOODSTOCK, OXFORD, OXFORDSHIRE, OX20 1ER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CAWM.1310 Permit Version: 2 Receiving Water: INTO LAND	Status: VARIED UNDER EPR 2010 Issue date: 21/12/2012 Effective Date: 21/12/2012 Revocation Date: -

ID	Location	Address	Details	
6	12m NW	FACTORY PREMISES, RADIATORS BRANCH, FACTORY PREMISES RADIATORS BRAN, CH WOODSTOCK ROAD OXFORD OXON	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: CTCP.0229 Permit Version: 1 Receiving Water: DITCH TRIB OF R THAMES	Status: REVOKED - UNSPECIFIED Issue date: 21/11/1963 Effective Date: 21/11/1963 Revocation Date: 06/11/1991
7	13m W	STONEMASONRY WORKS, RAILWAY WHARF, STONEMASONRY WORKS RAILWAY WHAR, F OXFORD	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: CTCP.0437 Permit Version: 1 Receiving Water: BACKWATER OFTHAMES	Status: REVOKED - UNSPECIFIED Issue date: 16/11/1964 Effective Date: 16/11/1964 Revocation Date: 04/12/1985
8	40m S	SHIPTON SLADE FARM, WOODSTOCK, OXFORDSHIRE, OX20 1QQ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CAWM.0191 Permit Version: 1 Receiving Water: TRIBUTARY OF RIVER CHERWELL	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 25/07/2000 Effective Date: 13/07/2000 Revocation Date: -
9	86m E	WHEATLEY STW, WHEATLEY, OXON, WHEATLEY STW WHEATLEY OXON	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTCR.0420 Permit Version: 1 Receiving Water: TRIB OF THAME	Status: REVOKED - UNSPECIFIED Issue date: 15/07/1960 Effective Date: 31/01/1985 Revocation Date: 29/08/1986
10	87m NW	CHARLTON-ON-OTMOOR STW, CHARLTON-ON, CHARLTON-ON-OTMOOR STW CHARLTON, -ON -OTMOOR OXON	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTCR.0335 Permit Version: 1 Receiving Water: RAY	Status: REVOKED - UNSPECIFIED Issue date: 12/09/1958 Effective Date: 31/01/1985 Revocation Date: 10/10/1985
D	123m E	STURDY'S CASTLE, BANBURY ROAD, TACKLEY, OXFORDSHIRE, OX5 3EP	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRDB3195RA Permit Version: 1 Receiving Water: GROUNDWATER VIA SOAKAWAY	Status: NEW ISSUED UNDER EPR 2010 Issue date: 29/10/2015 Effective Date: 29/10/2015 Revocation Date: -
D	156m E	STURDY'S CASTLE, PUBLIC HOUSE & MOTEL, TACKLEY, OXON, OX5 3EP	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: CAWM.0643 Permit Version: 1 Receiving Water: INTO LAND	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 27/10/2003 Effective Date: 30/09/2003 Revocation Date: 13/04/2007

ID	Location	Address	Details	
D	156m E	STURDY'S CASTLE, PUBLIC HOUSE & MOTEL, TACKLEY, OXON, OX5 3EP	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: CAWM.0643 Permit Version: 2 Receiving Water: INTO LAND	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 13/04/2007 Effective Date: 13/04/2007 Revocation Date: 20/12/2012
D	156m E	STURDY'S CASTLE, PUBLIC HOUSE & MOTEL, TACKLEY, OXON, OX5 3EP	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: CAWM.0643 Permit Version: 3 Receiving Water: INTO LAND	Status: REVOKED - UNSPECIFIED Issue date: 21/12/2012 Effective Date: 21/12/2012 Revocation Date: 23/05/2015
11	156m NE	STONES FARM, LITTLE HASELEY, OXFORDSHIRE, OX44 7LH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CAWM.0291 Permit Version: 1 Receiving Water: TRIBUTARY OF THE HASELEY BROOK	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 23/04/2001 Effective Date: 23/04/2001 Revocation Date: 02/05/2006
13	174m NW	STW AT HOME CLOSE HOUSING ESTATE, O, STW AT HOME CLOSE HOUSING ESTATE, ODDINGTON GLOS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTCR.0496 Permit Version: 1 Receiving Water: TRIB OF EVENLODE	Status: REVOKED - UNSPECIFIED Issue date: 12/01/1962 Effective Date: 12/01/1962 Revocation Date: 20/02/1987
14	178m E	THOMLEY HALL FARM, WORMINGHALL, BUC, THOMLEY HALL FARM WORMINGHALL, BUCKS	Effluent Type: AGRICULTURE - FISH FARMING - NOT WATER COMPANY Permit Number: CTCP.0466 Permit Version: 1 Receiving Water: THOMLEY BROOK, TRIB OF RTHAME	Status: REVOKED - UNSPECIFIED Issue date: 11/03/1965 Effective Date: 11/03/1965 Revocation Date: 30/06/1991
16	194m E	MARSH GIBBON STW, MARSH GIBBON, BUC, MARSH GIBBON STW MARSH GIBBON, BUCKS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTCR.0785 Permit Version: 1 Receiving Water: SUMMERSTOWNDITCH	Status: REVOKED - UNSPECIFIED Issue date: 10/09/1965 Effective Date: 31/01/1985 Revocation Date: 29/09/1986
E	194m W	HORDLEY FARM AND HORDLEY COTTAGES, WOOTTON, WOODSTOCK, OXFORDSHIRE, OX20 1EP	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRJB3898VP Permit Version: 1 Receiving Water: GROUNDWATER	Status: NEW ISSUED UNDER EPR 2010 Issue date: 10/12/2018 Effective Date: 10/12/2018 Revocation Date: -

ID	Location	Address	Details	
19	388m NW	BUCKNELL STW, OXON, BUCKNELL STW OXON	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTCP.0093 Permit Version: 1 Receiving Water: TRIB OF R RAY	Status: REVOKED - UNSPECIFIED Issue date: 11/04/1963 Effective Date: 11/04/1963 Revocation Date: 16/05/1986
20	442m NW	WESTON ON THE GREEN STW, WESTON ON, WESTON ON THE GREEN STW WESTON, ON THE GREEN OXON	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTCR.0350 Permit Version: 1 Receiving Water: GALLOS BROOK	Status: REVOKED - UNSPECIFIED Issue date: 16/01/1959 Effective Date: 31/01/1985 Revocation Date: 10/11/1985
21	464m E	HILL FARM, CHARNDON, BUCKS, HILL FARM CHARNDON BUCKS	Effluent Type: AGRICULTURE - FISH FARMING - NOT WATER COMPANY Permit Number: CTCR.0744 Permit Version: 1 Receiving Water: TRIB OF RAY	Status: REVOKED - UNSPECIFIED Issue date: 12/01/1965 Effective Date: 12/01/1965 Revocation Date: 05/02/1991
G	476m NE	TIDDINGTON SEWAGE TREATMENT WORKS, TIDDINGTON, THAME, OXON, OX9 2LU	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTCR.0724 Permit Version: 1 Receiving Water: TRIB OF THAME	Status: REVOKED - UNSPECIFIED Issue date: 13/10/1964 Effective Date: 13/10/1964 Revocation Date: 16/05/1986
G	476m NE	TIDDINGTON SEWAGE TREATMENT WORKS, TIDDINGTON, THAME, OXON, OX9 2LU	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTCR.0617 Permit Version: 1 Receiving Water: TRIB OF THAME	Status: REVOKED - UNSPECIFIED Issue date: 22/05/1963 Effective Date: 22/05/1963 Revocation Date: 16/05/1986

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	**0**

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	2

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

Features are displayed on the Current industrial land use map on **page 34**

ID	Location	Details	
F	203m E	Incident Date: 06/03/2002 Incident Identification: 62155 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
F	203m E	Incident Date: 06/03/2002 Incident Identification: 62155 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

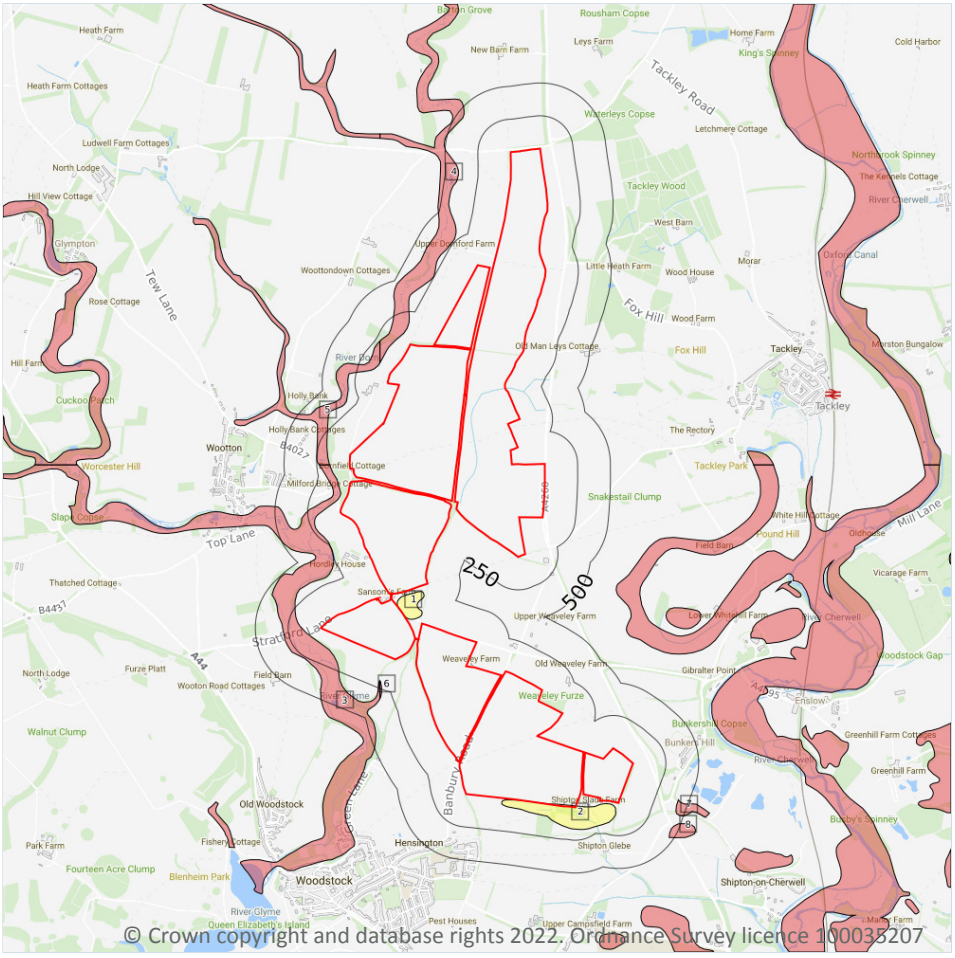
4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

5.1 Superficial aquifer

Records within 500m	8

Aquifer status of groundwater held within superficial geology.

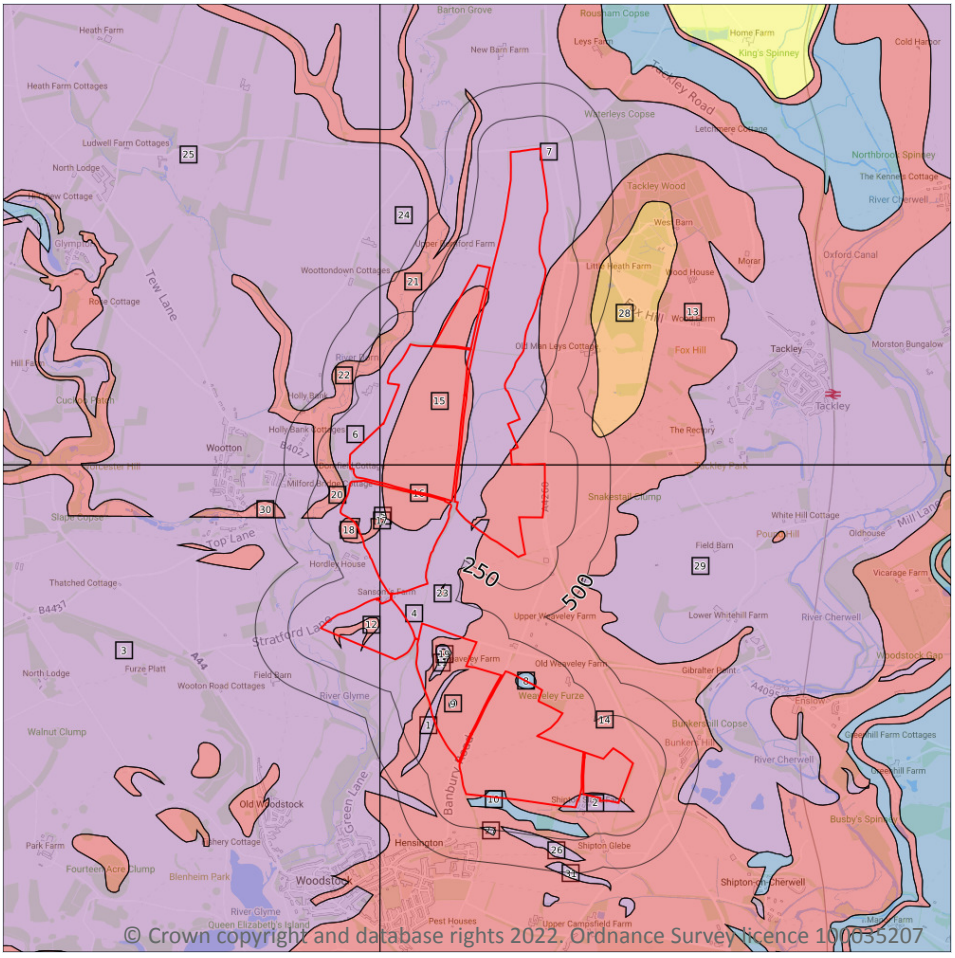
Features are displayed on the Hydrogeology map on **page 44**

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

ID	Location	Designation	Description
3	48m NW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	98m NW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
5	112m NW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
6	197m S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
7	421m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
8	448m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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	31

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 46**

ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

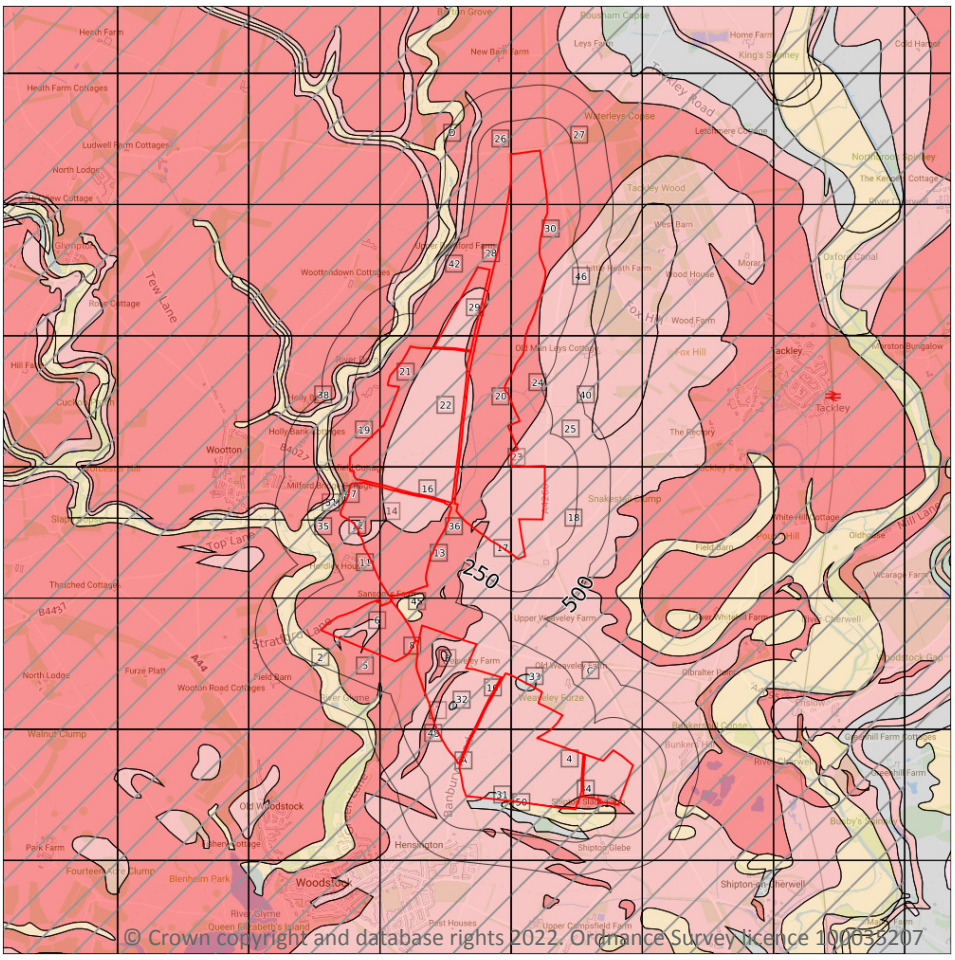
ID	Location	Designation	Description
3	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
4	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
5	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
6	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
7	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
8	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
9	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
10	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
11	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
12	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
13	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
14	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
15	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
16	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

ID	Location	Designation	Description
17	**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**
18	**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**
19	**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**
20	10m NW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
21	71m NW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
22	86m NW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
23	112m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
24	184m NW	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
25	211m NW	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
26	218m S	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
27	231m S	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
28	398m E	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers
29	408m E	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

ID	Location	Designation	Description
30	425m W	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
31	426m S	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major 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	45

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 50**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
3	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
4	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: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
5	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
6	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: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
7	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
8	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
9	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: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
10	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: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
11	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
12	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: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
13	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
14	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
15	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: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
16	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: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
17	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: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
18	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: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
19	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
20	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
21	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
22	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: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
23	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: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
24	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
25	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: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
26	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
27	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
28	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
29	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: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
30	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
31	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
32	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
33	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
44	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
45	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
A	**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: 300-550mm/year**	**Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures**
B	**On site**	**Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures**
C	**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: <300mm/year**	**Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures**
E	7m S	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
46	8m E	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
E	9m S	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
47	10m NW	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
48	26m W	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
49	28m S	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
50	32m S	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
51	48m NW	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary 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	**15**

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
2	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**21.0%**

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
34	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**5.0%**
35	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**17.0%**
36	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**0.0%**
37	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**3.0%**
38	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**1.0%**
39	**Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.**	**57.99999999999999%**
40	**Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.**	**10.0%**
41	**Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.**	**0.0%**
42	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**0.0%**
43	**Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.**	**5.0%**
A	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**0.0%**

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
B	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**3.0%**
C	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**4.0%**
D	**Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.**	**89.0%**

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

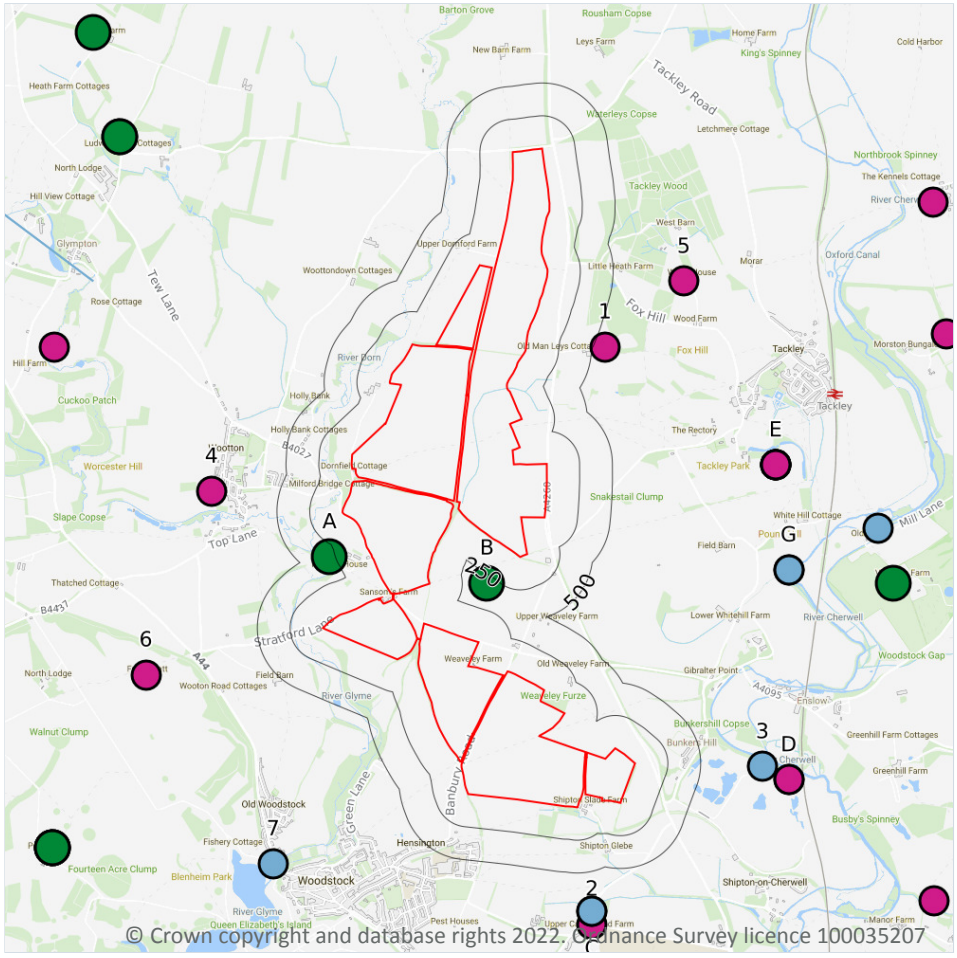
5.5 Groundwater vulnerability- local information

Records on site	**0**

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

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

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

- Source Protection Zone 1 — Inner catchment
- Source Protection Zone 2 — Outer catchment
- Source Protection Zone 3 — Total catchment
- Source Protection Zone 4 — Zone of Special Interest
- Source Protection Zone 1c — Inner catchment - confined aquifer
- Source Protection Zone 2c — Outer catchment - confined aquifer
- Source Protection Zone 3c — Total catchment - confined aquifer
- Drinking water abstraction licences
- 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	15

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 60**

ID	Location	Details	
1	584m E	Status: Historical Licence No: 28/39/14/0096 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: OLD MAN LEYS FARM, TACKLEY (A) Data Type: Point Name: CARTWRIGHT Easting: 446700 Northing: 220900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/12/1971 Version End Date: -
2	895m S	Status: Active Licence No: 28/39/14/0285 Details: Make-Up Or Top Up Water Direct Source: THAMES GROUNDWATER Point: UPPER CAMPSFIELD, WOODSTOCK, OXON Data Type: Point Name: PRICE Easting: 446600 Northing: 216500	Annual Volume (m^3): 6,819 Max Daily Volume (m^3): 163.66 Original Application No: WRA./2973/1 Original Start Date: 06/12/1977 Expiry Date: - Issue No: 100 Version Start Date: 30/09/1991 Version End Date: -
4	1011m W	Status: Historical Licence No: 28/39/12/0101 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: MANOR FARM, WOOTTON, OXON Data Type: Point Name: GIBBS Easting: 443700 Northing: 219800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 09/01/1967 Expiry Date: - Issue No: 101 Version Start Date: 19/05/1999 Version End Date: -
5	1040m E	Status: Historical Licence No: 28/39/14/0135 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: WOOD FARM, TACKLEY (A) Data Type: Point Name: J A LAUGHTON & SON Easting: 447300 Northing: 221400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 09/01/1967 Expiry Date: - Issue No: 100 Version Start Date: 09/01/1967 Version End Date: -
D	1177m E	Status: Historical Licence No: 28/39/14/0019 Details: General use relating to Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: SHIPTON-ON-CHERWELL - BPREHOLE 'C' Data Type: Point Name: DREXFINE HOLDINGS LTD Easting: 448100 Northing: 217600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/12/1996 Version End Date: -

ID	Location	Details	
D	1177m E	Status: Active Licence No: 28/39/14/0019 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: SHIPTON-ON-CHERWELL - BOREHOLE 'C' Data Type: Point Name: EARTHLINE LTD Easting: 448100 Northing: 217600	Annual Volume (m^3): 54,552 Max Daily Volume (m^3): 186.40 Original Application No: NPS/WR/010143 Original Start Date: 14/03/1966 Expiry Date: - Issue No: 105 Version Start Date: 04/05/2012 Version End Date: -
6	1396m W	Status: Historical Licence No: 28/39/12/0036 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: FURZE PLATT, PARK FARM, WOODSTOCK (WELL) Data Type: Point Name: BLENHEIM PARLIAMENTARY ESTATE Easting: 443200 Northing: 218400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/06/1966 Version End Date: -
E	1743m E	Status: Historical Licence No: 28/39/14/0192 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: WARREN LODGE, TACKLEY (R) Data Type: Point Name: PEAKE Easting: 448000 Northing: 220000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/03/1967 Expiry Date: - Issue No: 100 Version Start Date: 31/12/1977 Version End Date: -
E	1743m E	Status: Historical Licence No: 28/39/14/0192 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: WARREN LODGE, TACKLEY (V) Data Type: Point Name: PEAKE Easting: 448000 Northing: 220000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/03/1967 Expiry Date: - Issue No: 100 Version Start Date: 31/12/1977 Version End Date: -
E	1743m E	Status: Historical Licence No: 28/39/14/0192 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: WARREN LODGE, TACKLEY (W) Data Type: Point Name: PEAKE Easting: 448000 Northing: 220000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/03/1967 Expiry Date: - Issue No: 100 Version Start Date: 31/12/1977 Version End Date: -

ID	Location	Details	
E	1743m E	Status: Historical Licence No: 28/39/14/0192 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: WARREN LODGE, TACKLEY (X) Data Type: Point Name: PEAKE Easting: 448000 Northing: 220000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/03/1967 Expiry Date: - Issue No: 100 Version Start Date: 31/12/1977 Version End Date: -
E	1743m E	Status: Historical Licence No: 28/39/14/0192 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: WARREN LODGE, TACKLEY (S) Data Type: Point Name: PEAKE Easting: 448000 Northing: 220000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/03/1967 Expiry Date: - Issue No: 100 Version Start Date: 31/12/1977 Version End Date: -
E	1743m E	Status: Historical Licence No: 28/39/14/0192 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: WARREN LODGE, TACKLEY (Y) Data Type: Point Name: PEAKE Easting: 448000 Northing: 220000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/03/1967 Expiry Date: - Issue No: 100 Version Start Date: 31/12/1977 Version End Date: -
E	1743m E	Status: Historical Licence No: 28/39/14/0192 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: WARREN LODGE, TACKLEY (Z) Data Type: Point Name: PEAKE Easting: 448000 Northing: 220000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/03/1967 Expiry Date: - Issue No: 100 Version Start Date: 31/12/1977 Version End Date: -
-	1769m NE	Status: Historical Licence No: 28/39/14/0170 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: THAMES GROUNDWATER Point: ROUSHAM ESTATE, STEEPLE ASTON (CATCHPIT - B) Data Type: Point Name: COTTRELL DORMER Easting: 447000 Northing: 224000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/02/1967 Expiry Date: - Issue No: 100 Version Start Date: 13/02/1967 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**10**

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 60**

ID	Location	Details	
A	293m W	Status: Historical Licence No: 28/39/12/0203 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: THAMES SURFACE WATER - NON TIDAL Point: HORDLEY FARM, WOOTTON, WOODSTOCK, OXON Data Type: Point Name: BLENHEIM PARLIAMENTARY ESTATE Easting: 444600 Northing: 219300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 27/09/1991 Expiry Date: - Issue No: 100 Version Start Date: 27/09/1991 Version End Date: -
A	293m W	Status: Historical Licence No: 28/39/12/0203 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: THAMES SURFACE WATER - NON TIDAL Point: HORDLEY FARM, WOOTON, WOODSTOCK, OXON (B) - RIVER GLYME Data Type: Point Name: BLENHEIM PARLIAMENTARY ESTATE Easting: 444600 Northing: 219300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 27/09/1991 Expiry Date: - Issue No: 100 Version Start Date: 27/09/1991 Version End Date: -
B	310m SW	Status: Historical Licence No: 28/39/12/0203 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: THAMES SURFACE WATER - NON TIDAL Point: HORDLEY FARM, WOOTON, WOODSTOCK, OXON (A) Data Type: Point Name: BLENHEIM PARLIAMENTARY ESTATE Easting: 445800 Northing: 219100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 27/09/1991 Expiry Date: - Issue No: 100 Version Start Date: 27/09/1991 Version End Date: -

ID	Location	Details	
B	310m SW	Status: Historical Licence No: 28/39/12/0203 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: THAMES SURFACE WATER - NON TIDAL Point: HORDLEY FARM, WOOTON, WOODSTOCK, OXON (A) - SPRING Data Type: Point Name: BLENHEIM PARLIAMENTARY ESTATE Easting: 445800 Northing: 219100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 27/09/1991 Expiry Date: - Issue No: 100 Version Start Date: 27/09/1991 Version End Date: -
C	796m S	Status: Historical Licence No: 28/39/14/0294 Details: Spray Irrigation - Storage Direct Source: THAMES SURFACE WATER - NON TIDAL Point: UPPER CAMPSFIELD FARM, WOODSTOCK, OXON Data Type: Point Name: PRICE Easting: 446600 Northing: 216600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 22/07/1962 Expiry Date: - Issue No: 100 Version Start Date: 30/09/1991 Version End Date: -
C	796m S	Status: Active Licence No: 28/39/14/0294 Details: Spray Irrigation - Storage Direct Source: THAMES SURFACE WATER - NON TIDAL Point: UPPER CAMPSFIELD FARM, WOODSTOCK, OXON - TRIB.RIVER.CHERWELL Data Type: Point Name: PRICE Easting: 446600 Northing: 216600	Annual Volume (m^3): 6,819 Max Daily Volume (m^3): 164 Original Application No: WRA./2973/3 Original Start Date: 30/09/1991 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2012 Version End Date: -
3	970m E	Status: Active Licence No: 28/39/14/0018 Details: Non-Evaporative Cooling Direct Source: THAMES SURFACE WATER - NON TIDAL Point: SHIPTON ON CHERWELL - RIVER CHERWELL Data Type: Point Name: EARTHLINE LTD Easting: 447900 Northing: 217700	Annual Volume (m^3): 431,870 Max Daily Volume (m^3): 2,728 Original Application No: NPS/WR/010143 Original Start Date: 11/12/1996 Expiry Date: - Issue No: 105 Version Start Date: 04/05/2012 Version End Date: -

ID	Location	Details	
7	1578m W	Status: Active Licence No: TH/039/0012/013 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: THAMES SURFACE WATER - NON TIDAL Point: OPEN CHANNEL AT POINT A Data Type: Point Name: Blenheim Palace Heritage Foundation Easting: 444170 Northing: 216960	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/WR/032949 Original Start Date: 30/04/2020 Expiry Date: 31/03/2023 Issue No: 1 Version Start Date: 30/04/2020 Version End Date: -
G	1882m NE	Status: Historical Licence No: 28/39/14/0330 Details: Spray Irrigation - Storage Direct Source: THAMES SURFACE WATER - NON TIDAL Point: VICARAGE FARM, KIRTLINGTON, OXON Data Type: Point Name: GLEN ANDREWS (GOLF COURSES) LTD Easting: 448100 Northing: 219200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 02/06/1995 Expiry Date: 31/12/2005 Issue No: 100 Version Start Date: 02/06/1995 Version End Date: -
G	1882m NE	Status: Historical Licence No: 28/39/14/0330 Details: Spray Irrigation - Storage Direct Source: THAMES SURFACE WATER - NON TIDAL Point: VICARAGE FARM, KIRTLINGTON, OXON - RIVER CHERWELL Data Type: Point Name: GLEN ANDREWS (GOLF COURSES) LTD Easting: 448100 Northing: 219200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 02/06/1995 Expiry Date: 31/12/2005 Issue No: 101 Version Start Date: 22/09/2003 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	**5**

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 60**

ID	Location	Details	
A	293m W	Status: Historical Licence No: 28/39/12/0203 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: THAMES SURFACE WATER - NON TIDAL Point: HORDLEY FARM, WOOTTON, WOODSTOCK, OXON Data Type: Point Name: BLENHEIM PARLIAMENTARY ESTATE Easting: 444600 Northing: 219300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 27/09/1991 Expiry Date: - Issue No: 100 Version Start Date: 27/09/1991 Version End Date: -
A	293m W	Status: Historical Licence No: 28/39/12/0203 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: THAMES SURFACE WATER - NON TIDAL Point: HORDLEY FARM, WOOTON, WOODSTOCK, OXON (B) - RIVER GLYME Data Type: Point Name: BLENHEIM PARLIAMENTARY ESTATE Easting: 444600 Northing: 219300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 27/09/1991 Expiry Date: - Issue No: 100 Version Start Date: 27/09/1991 Version End Date: -
B	310m SW	Status: Historical Licence No: 28/39/12/0203 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: THAMES SURFACE WATER - NON TIDAL Point: HORDLEY FARM, WOOTON, WOODSTOCK, OXON (A) Data Type: Point Name: BLENHEIM PARLIAMENTARY ESTATE Easting: 445800 Northing: 219100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 27/09/1991 Expiry Date: - Issue No: 100 Version Start Date: 27/09/1991 Version End Date: -
B	310m SW	Status: Historical Licence No: 28/39/12/0203 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: THAMES SURFACE WATER - NON TIDAL Point: HORDLEY FARM, WOOTON, WOODSTOCK, OXON (A) - SPRING Data Type: Point Name: BLENHEIM PARLIAMENTARY ESTATE Easting: 445800 Northing: 219100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 27/09/1991 Expiry Date: - Issue No: 100 Version Start Date: 27/09/1991 Version End Date: -

ID	Location	Details	
-	1769m NE	Status: Historical Licence No: 28/39/14/0170 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: THAMES GROUNDWATER Point: ROUSHAM ESTATE, STEEPLE ASTON (CATCHPIT - B) Data Type: Point Name: COTTRELL DORMER Easting: 447000 Northing: 224000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/02/1967 Expiry Date: - Issue No: 100 Version Start Date: 13/02/1967 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.

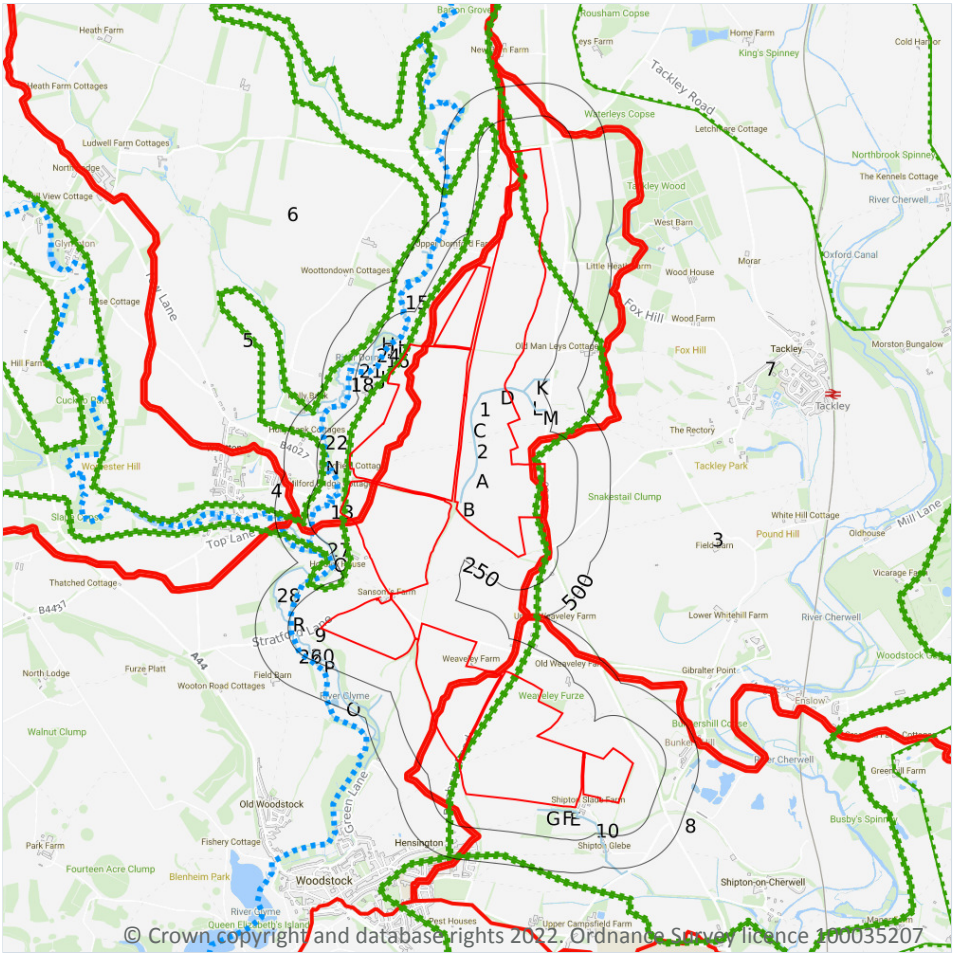
5.10 Source Protection Zones (confined aquifer)

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	**46**

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

Features are displayed on the Hydrology map on **page 69**

ID	Location	Type of water feature	Ground level	Permanence	Name
1	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**

ID	Location	Type of water feature	Ground level	Permanence	Name
2	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
A	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
B	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
B	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
C	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
D	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
E	28m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	30m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
10	31m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	32m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	33m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	33m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	33m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
G	42m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
13	68m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Dorn
15	87m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Dorn
I	99m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Dorn
I	99m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
16	103m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Dorn
J	106m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	River Dorn
J	108m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Dorn
K	108m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	108m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
17	136m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Dorn
J	141m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	River Dorn
18	144m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Dorn

ID	Location	Type of water feature	Ground level	Permanence	Name
M	146m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
20	160m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
21	161m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Dorn
H	177m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
22	179m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Dorn
N	193m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	202m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	204m W	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	207m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	214m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Glyme
24	217m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	220m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	222m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Glyme

ID	Location	Type of water feature	Ground level	Permanence	Name
26	224m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Glyme
27	239m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	239m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	239m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	241m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Glyme
28	241m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	**15**

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

Features are displayed on the Hydrology map on **page 69**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	**4**

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 69**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
6	**On site**	**River**	**Dorn (Source to Glyme)**	**GB106039037380**	**Evenlode**	**Cotswolds**
7	**On site**	**River**	**Cherwell (Nell Bridge to Bletchingdon)**	**GB106039037431**	**Cherwell**	**Cherwell and Ray**
8	**On site**	**River**	**Cherwell (Bletchingdon to Ray)**	**GB106039037432**	**Cherwell**	**Cherwell and Ray**
9	**On site**	**River**	**Glyme (Dorn confluence to Evenlode)**	**GB106039029940**	**Evenlode**	**Cotswolds**

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

6.4 WFD Surface water bodies

Records identified	**4**

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 69**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
14	69m NW	River	Dorn (Source to Glyme)	GB106039037380	Poor	Fail	Poor	2019
25	222m W	River	Glyme (Dorn confluence to Evenlode)	GB106039029940	Poor	Fail	Poor	2019
-	677m NE	River	Cherwell (Nell Bridge to Bletchingdon)	GB106039037431	Moderate	Fail	Moderate	2019
-	1039m E	River	Cherwell (Bletchingdon to Ray)	GB106039037432	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site	3

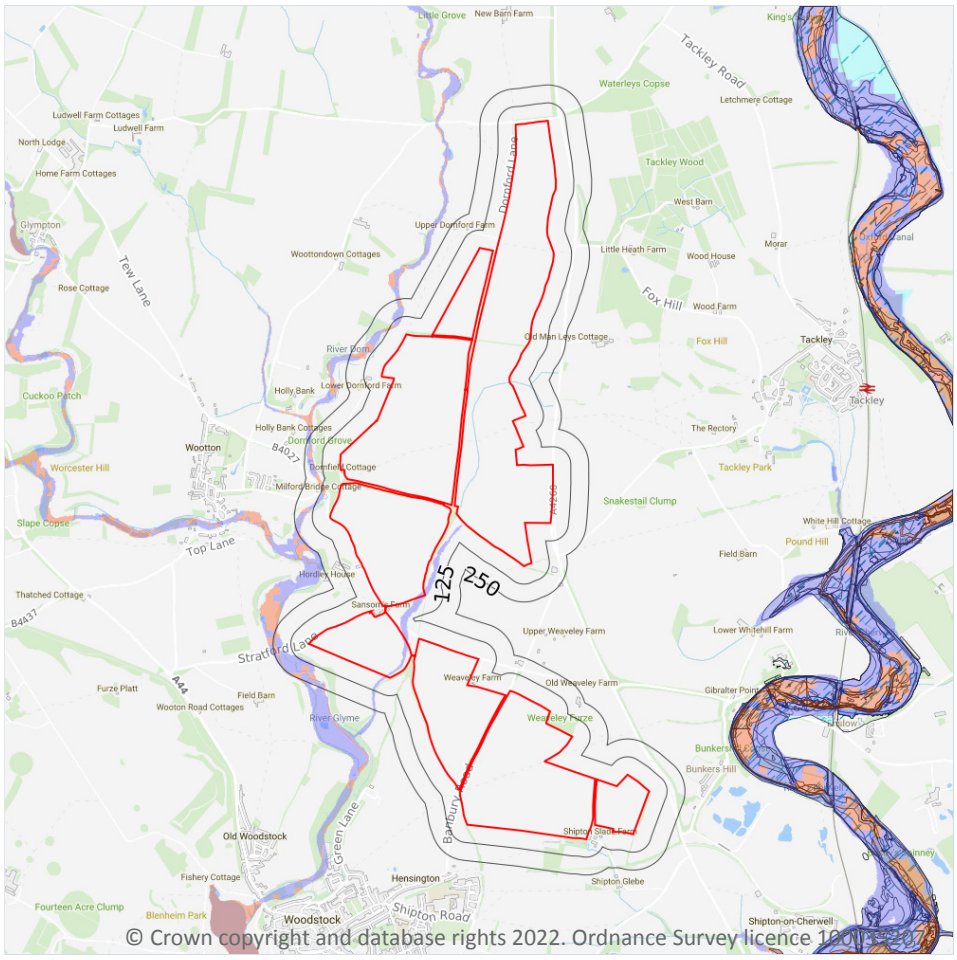
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 69**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
3	**On site**	**Tackley Jurassic**	**GB40601G603100**	**Good**	**Good**	**Good**	**2019**
4	**On site**	**Burford Jurassic**	**GB40601G600400**	**Poor**	**Poor**	**Good**	**2019**
5	**On site**	**Chipping Norton Jurassic**	**GB40602G600300**	**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	2

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

Features are displayed on the River and coastal flooding map on **page 76**

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

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.

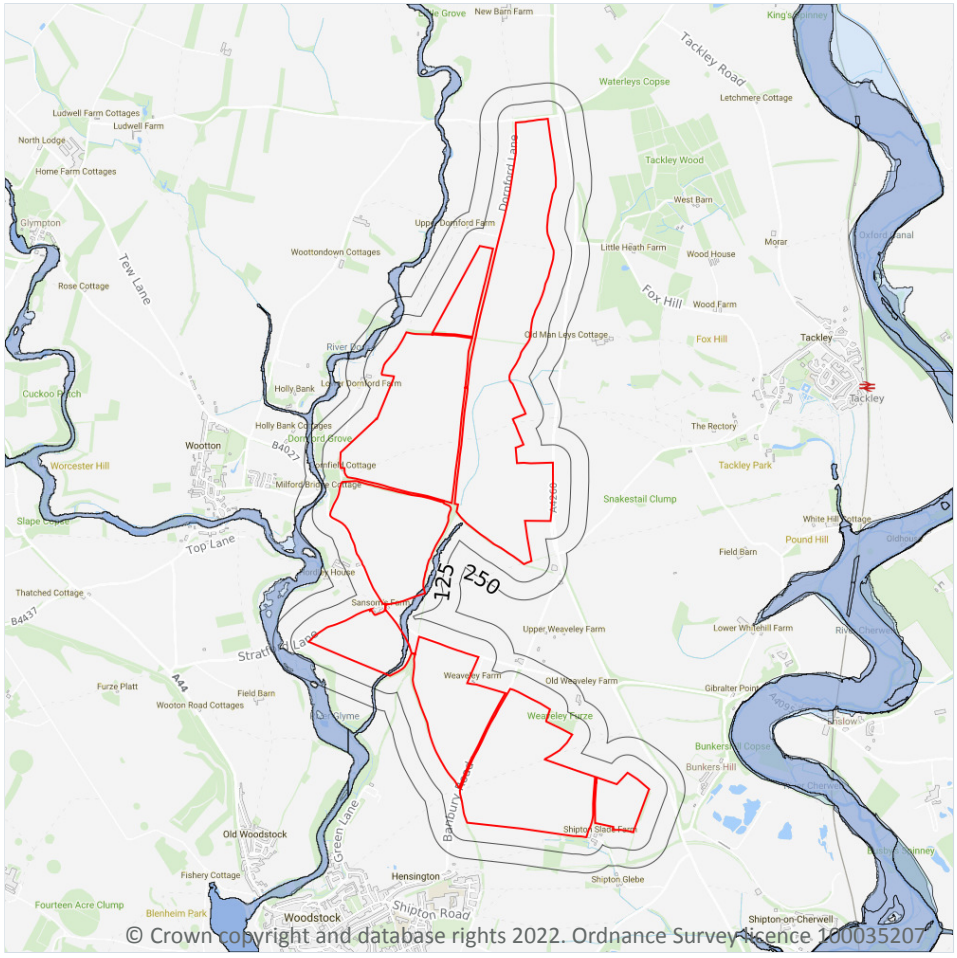
7.5 Flood Storage Areas

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



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

7.6 Flood Zone 2

Records within 50m	1

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

Features are displayed on the River and coastal flooding map on **page 76**

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

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

7.7 Flood Zone 3

Records within 50m	1

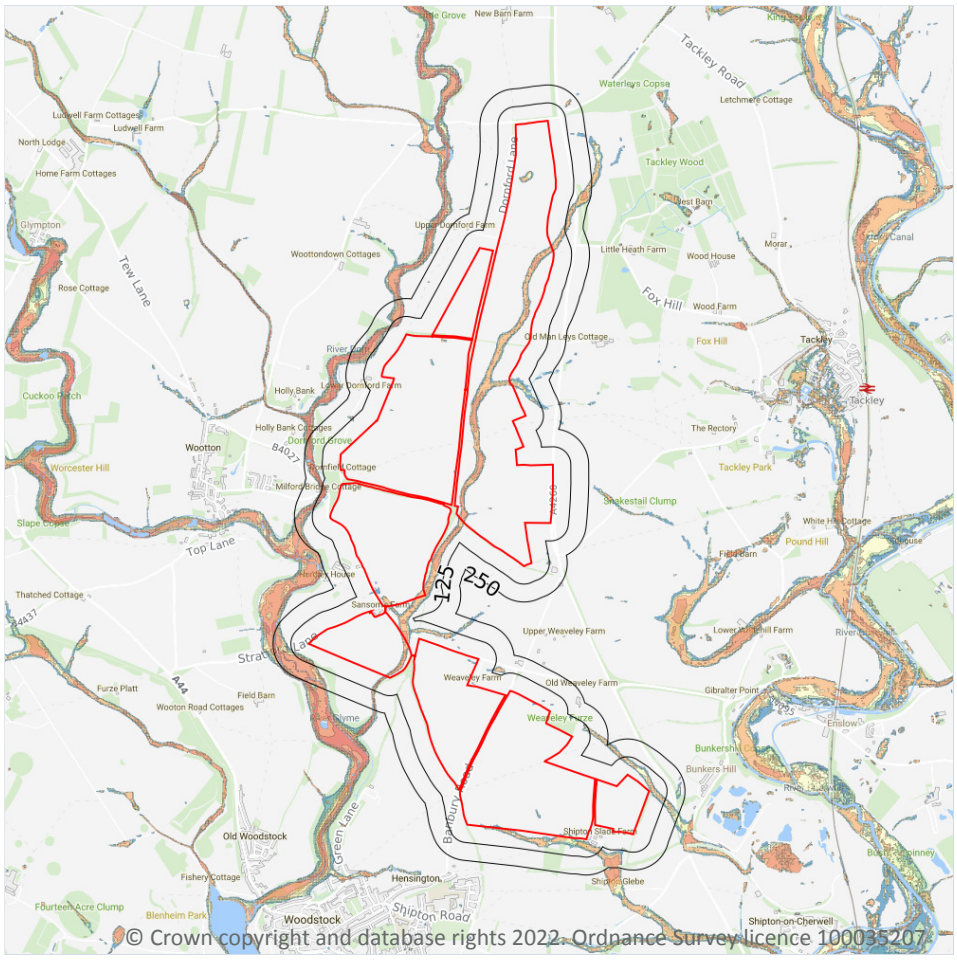
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 76**

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

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

8 Surface water flooding



Site Outline

Search buffers in metres (m)

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

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

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

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

8.1 Surface water flooding

Highest risk on site	**1 in 30 year, Greater than 1.0m**
Highest risk within 50m	**1 in 30 year, Greater than 1.0m**

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

Features are displayed on the Surface water flooding map on **page 80**

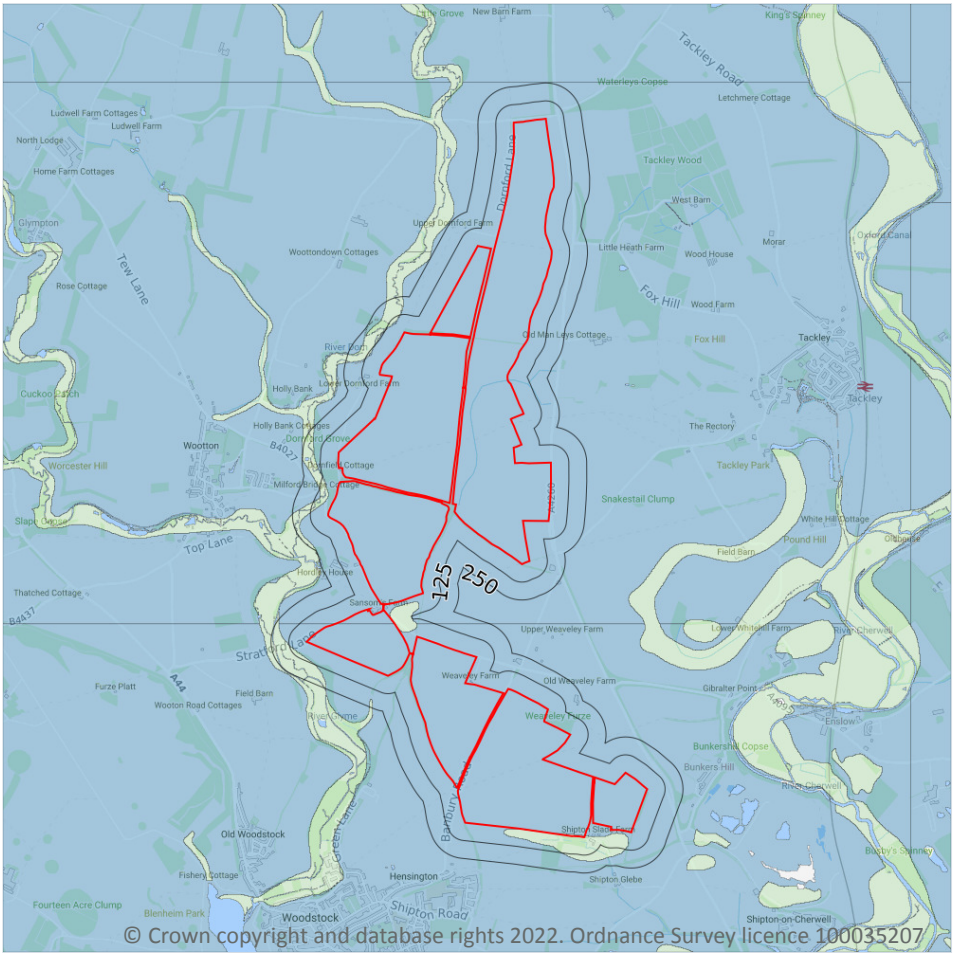
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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

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

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

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

9.1 Groundwater flooding

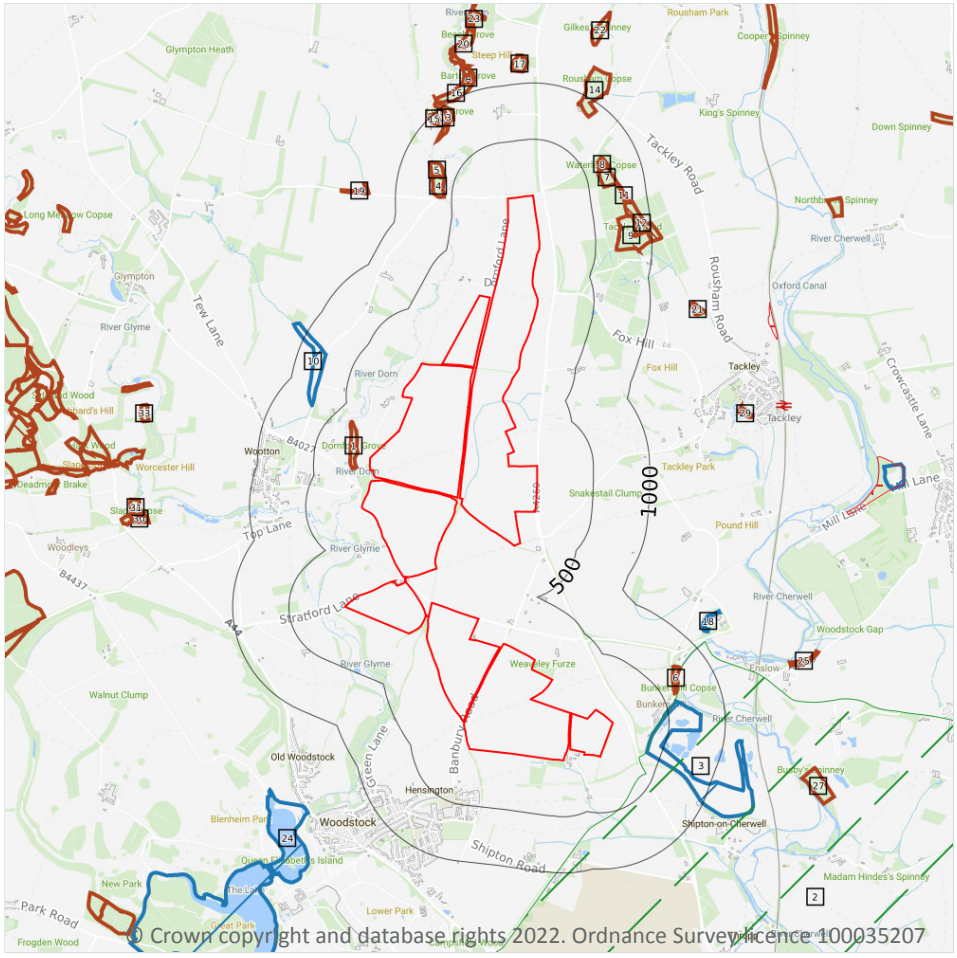
Highest risk on site	**Low**
Highest risk within 50m	**Low**

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

Features are displayed on the Groundwater flooding map on **page 82**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Sites of Special Scientific Interest (SSSI)

Local Nature Reserves (LNR)

Designated Ancient Woodland

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	4

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

Features are displayed on the Environmental designations map on **page 83**

ID	Location	Name	Data source
3	365m E	Shipton-on-Cherwell & Whitehill Farm Quarries	Natural England

ID	Location	Name	Data source
10	696m NW	Sheep's Banks	Natural England
18	1151m NE	Shipton-on-Cherwell & Whitehill Farm Quarries	Natural England
24	1545m W	Blenheim Park	Natural England

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	**0**

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	**0**

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	**0**

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	0

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

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

10.7 Designated Ancient Woodland

Records within 2000m	31

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 83**

ID	Location	Name	Woodland Type
1	118m W	Dornford Grove	Ancient & Semi-Natural Woodland
4	566m W	Buswells Thicket	Ancient & Semi-Natural Woodland
5	597m W	Buswells Thicket	Ancient Replanted Woodland
6	610m NE	Bunkershill Copse	Ancient & Semi-Natural Woodland
7	616m E	Waterleys Copse	Ancient & Semi-Natural Woodland
8	617m E	Waterleys Copse	Ancient Replanted Woodland
9	686m E	Tackley Wood	Ancient Replanted Woodland
11	756m E	Unknown	Ancient & Semi-Natural Woodland
12	795m E	Tackley Wood	Ancient & Semi-Natural Woodland
13	802m NW	Little Grove	Ancient & Semi-Natural Woodland

ID	Location	Name	Woodland Type
14	857m NE	Rousham Copse	Ancient & Semi-Natural Woodland
15	911m NW	Unknown	Ancient & Semi-Natural Woodland
16	990m NW	Barton Grove	Ancient & Semi-Natural Woodland
A	1086m N	Barton Grove	Ancient Replanted Woodland
17	1104m N	Maiden Bower	Ancient & Semi-Natural Woodland
A	1152m N	Barton Grove	Ancient & Semi-Natural Woodland
A	1224m N	Barton Grove	Ancient Replanted Woodland
19	1237m W	The Lanket	Ancient & Semi-Natural Woodland
20	1286m N	Beech Grove	Ancient Replanted Woodland
21	1361m E	Unknown	Ancient & Semi-Natural Woodland
22	1444m N	Rousham Park - Gilkess Spinney	Ancient & Semi-Natural Woodland
23	1520m N	Beech Grove	Ancient & Semi-Natural Woodland
25	1661m E	Lincelane Copse	Ancient & Semi-Natural Woodland
26	1718m N	Horse Close	Ancient & Semi-Natural Woodland
27	1752m E	Busby's Spinney	Ancient & Semi-Natural Woodland
29	1856m E	Unknown	Ancient & Semi-Natural Woodland
30	1898m NW	Slape Copse	Ancient & Semi-Natural Woodland
-	1933m N	Horse Close	Ancient Replanted Woodland
31	1934m W	Unknown	Ancient & Semi-Natural Woodland
-	1944m N	Unknown	Ancient & Semi-Natural Woodland
33	1997m W	Cuckoo Patch	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	2

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

Features are displayed on the Environmental designations map on **page 83**

ID	Location	Name	Local Authority name
2	326m E	Oxford	Cherwell
-	1841m S	Oxford	West Oxfordshire

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	7

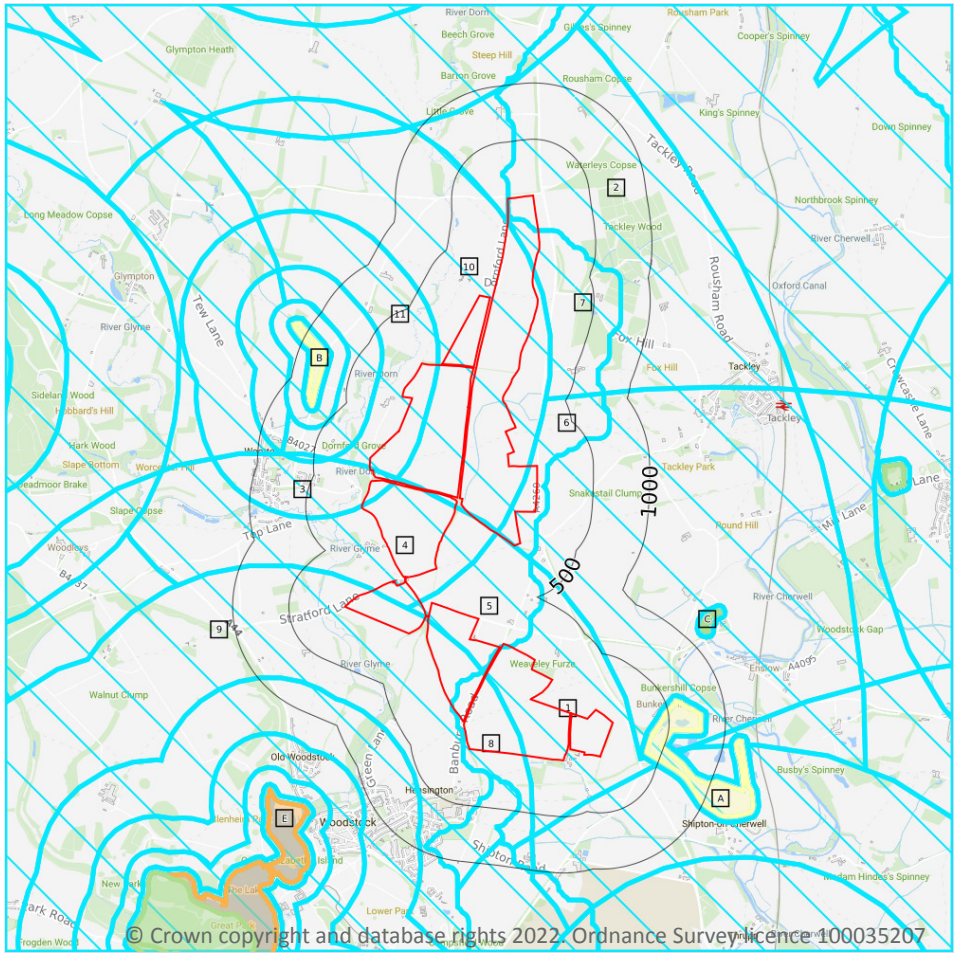
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	**Glyme (Dorn confluence to Evenlode) NVZ**	**Surface Water**	**474**	**Existing**

Location	Name	Type	NVZ ID	Status
On site	**Cotswold Jurassic**	**Groundwater**	**83**	**Existing**
On site	**Cherwell (Ray to Thames) and Woodeaton Brook NVZ**	**Surface Water**	**472**	**Existing**
458m NW	Glyme (Dorn confluence to Evenlode) NVZ	Surface Water	474	Existing
458m W	Cotswold Jurassic	Groundwater	83	Existing
1407m SE	Cherwell (Ray to Thames) and Woodeaton Brook NVZ	Surface Water	472	Existing
1515m S	Glyme (Dorn confluence to Evenlode) NVZ	Surface Water	474	Existing

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	11

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 90**

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t. Combustion - General combustion processes >50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.
2	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 > 750m², manure stores > 3500t.
3	On site	Infrastructure - Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction. Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.
4	On site	Infrastructure - Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction. Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.

ID	Location	Type of developments requiring consultation
5	On site	Infrastructure - Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t. Combustion - General combustion processes >50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.
6	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 > 750m², manure stores > 3500t. Combustion - General combustion processes >50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.
7	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 > 750m², manure stores > 3500t. Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.
8	On site	Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction. Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.

ID	Location	Type of developments requiring consultation
9	On site	**Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where footprint exceeds 1ha. Rural residential - Any residential development of 100 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.**
10	On site	**Infrastructure - Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Oil & gas exploration/extraction. Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.**
11	On site	**Infrastructure - Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Oil & gas exploration/extraction. Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	4

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

Features are displayed on the SSSI Impact Zones and Units map on **page 90**

ID: A
Location: 365m E
SSSI name: Shipton-on-Cherwell & Whitehill Farm Quarries
Unit name: Cement Works Quarry
Broad habitat: Earth Heritage
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
ED - Bathonian	Unfavourable - Recovering	24/08/2009
FM - Jurassic - Cretaceous Reptilia	Favourable	16/11/2021

ID: B
Location: 696m NW
SSSI name: Sheep's Banks
Unit name: Grassland
Broad habitat: Calcareous Grassland - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Lowland calcareous grassland (CG2)	Unfavourable - Recovering	06/06/2013
Lowland calcareous grassland (CG3-5)	Unfavourable - Recovering	06/06/2013

ID: C
Location: 1151m NE
SSSI name: Shipton-on-Cherwell & Whitehill Farm Quarries
Unit name: Whitehill Farm Quarry
Broad habitat: Earth Heritage
Condition: Favourable

Reportable features:

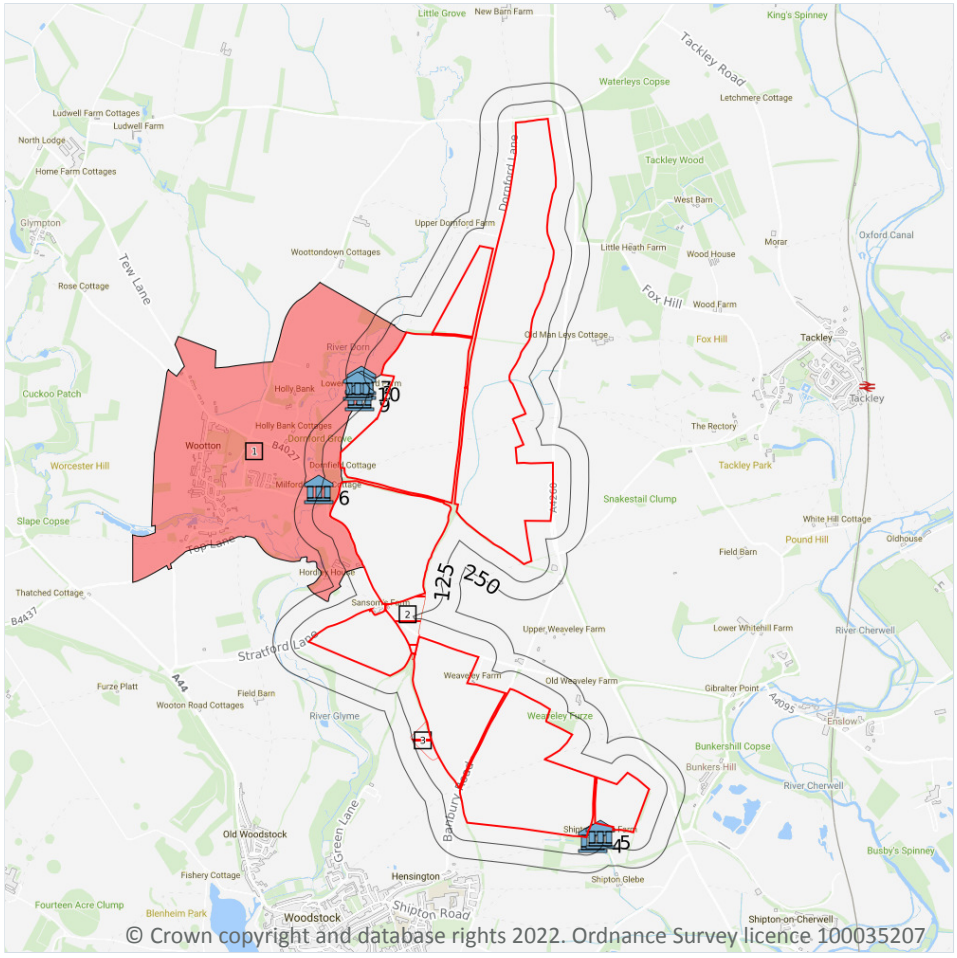
Feature name	Feature condition	Date of assessment
ED - Bathonian	Favourable	16/11/2021
FM - Jurassic - Cretaceous Reptilia	Favourable	16/11/2021

ID: E
Location: 1545m W
SSSI name: Blenheim Park
Unit name: 4
Broad habitat: Standing Open Water And Canals
Condition: Unfavourable - Declining
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Great crested grebe, Podiceps cristatus	Favourable	10/11/2011
Aggregations of non-breeding birds - Gadwall, Anas strepera	Favourable	10/11/2011
Mesotrophic lakes	Unfavourable - Declining	10/11/2011

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

11 Visual and cultural designations



11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	7

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

Features are displayed on the Visual and cultural designations map on **page 96**

ID	Location	Name	Grade	Reference Number	Listed date
4	43m E	Shipton Slade Farm, Barn Approximately 50 Metres South West of Farmhouse, Shipton-on-Cherwell and Thrupp, Cherwell, Oxfordshire, OX20	II	1290426	26/02/1988
5	68m S	Shipton Slade Farmhouse, Shipton-on-Cherwell and Thrupp, Cherwell, Oxfordshire, OX20	II	1210435	26/02/1988
6	139m W	Milford Bridge Cottage, Wootton, West Oxfordshire, Oxfordshire, OX20	II	1367999	29/06/1988

ID	Location	Name	Grade	Reference Number	Listed date
7	151m W	Barn Approximately 20 Metres North of Lower Dornford Farmhouse, Wootton, West Oxfordshire, Oxfordshire, OX20	II	1199705	29/06/1988
8	157m SW	Lower Dornford Farmhouse and Attached Barn, Wootton, West Oxfordshire, Oxfordshire, OX20	II	1052906	27/08/1957
9	170m W	Garden Walls Approximately 20 Metres South of Lower Dornford Farmhouse, Wootton, West Oxfordshire, Oxfordshire, OX20	II	1199714	29/06/1988
10	187m SW	Stable Approxiamtely 3 Metres South West of Lower Dornford Farmhouse, Wootton, West Oxfordshire, Oxfordshire, OX20	II	1052907	29/06/1988

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

11.5 Conservation Areas

Records within 250m	**1**

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

Features are displayed on the Visual and cultural designations map on **page 96**

ID	Location	Name	District	Date of designation
1	**On site**	**Wootton**	**West Oxfordshire**	**10/06/1976**

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

11.6 Scheduled Ancient Monuments

Records within 250m	**2**

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.

Features are displayed on the Visual and cultural designations map on **page 96**

ID	Location	Ancient monument name	Reference number
2	**On site**	**Roman villa**	**1006346**
3	**On site**	**Rectangular earthwork, Hensington**	**1006357**

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

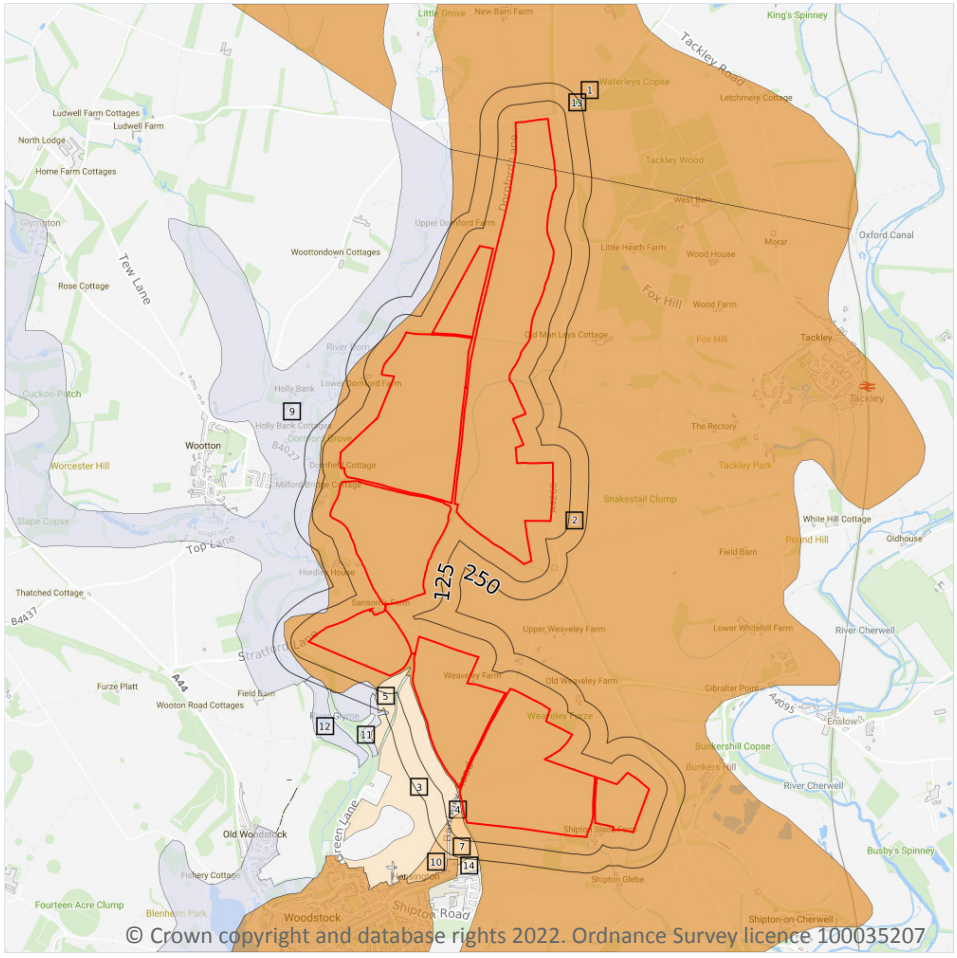
11.7 Registered Parks and Gardens

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	11

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 100**

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

ID	Location	Classification	Description
2	**On site**	**Grade 3**	**Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.**
3	9m W	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
4	13m W	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
5	13m SE	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
7	14m W	Grade 3a	Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.
9	74m NW	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.
10	117m W	Grade 3a	Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.
11	159m S	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.
12	217m SW	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.
14	239m S	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.

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	1

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.

Features are displayed on the Agricultural designations map on **page 100**

ID	Location	Description	Reference	Application date
13	223m NE	Clear Fell (Conditional)	017/57/97-98	03/12/1997

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	12

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.

Location	Reference	Scheme	Start Date	End date
On site	**AG00358666**	**Entry Level plus Higher Level Stewardship**	**01/03/2012**	**28/02/2022**
On site	**AG00358666**	**Entry Level plus Higher Level Stewardship**	**01/03/2012**	**28/02/2022**
On site	**AG00358666**	**Entry Level plus Higher Level Stewardship**	**01/03/2012**	**28/02/2022**
4m W	AG00358666	Entry Level plus Higher Level Stewardship	01/03/2012	28/02/2022
7m S	AG00358666	Entry Level plus Higher Level Stewardship	01/03/2012	28/02/2022
9m SW	AG00358666	Entry Level plus Higher Level Stewardship	01/03/2012	28/02/2022
10m W	AG00358666	Entry Level plus Higher Level Stewardship	01/03/2012	28/02/2022

Location	Reference	Scheme	Start Date	End date
17m NE	AG00337095	Entry Level plus Higher Level Stewardship	01/01/2011	31/12/2021
92m SW	AG00358666	Entry Level plus Higher Level Stewardship	01/03/2012	28/02/2022
104m W	AG00418316	Entry Level plus Higher Level Stewardship	01/09/2013	31/08/2023
206m E	AG00337095	Entry Level plus Higher Level Stewardship	01/01/2011	31/12/2021
244m W	AG00358666	Entry Level plus Higher Level Stewardship	01/03/2012	28/02/2022

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

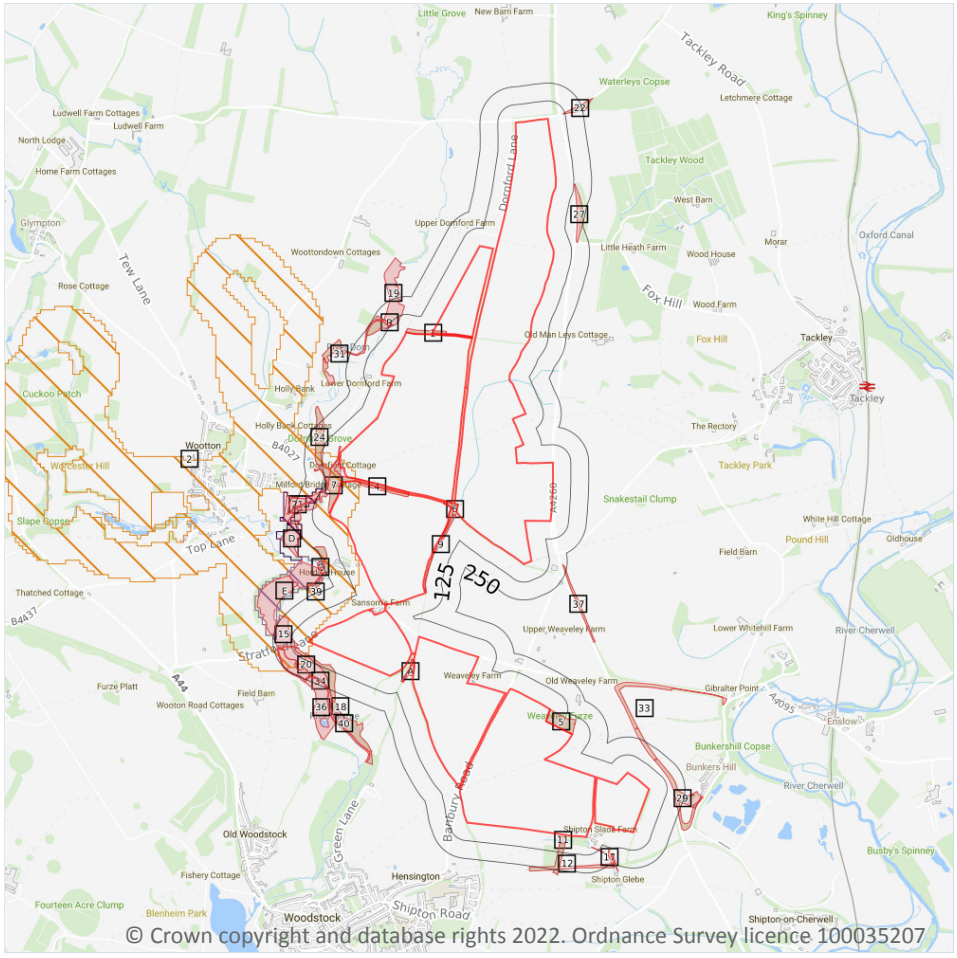
Records within 250m	**6**

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.

Location	Reference	Scheme	Start Date	End Date
On site	**1058062**	**Countryside Stewardship (Middle Tier)**	**01/01/2021**	**31/12/2025**
15m S	1058062	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
127m N	1067198	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
162m W	478237	Countryside Stewardship (Middle Tier)	01/01/2018	31/12/2022
181m SE	1058062	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
213m SE	1058062	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025

This data is sourced from Natural England.

13 Habitat designations



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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	47

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

Features are displayed on the Habitat designations map on **page 104**

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
5	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
6	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
A	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
7	4m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	4m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	6m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	7m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	8m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
11	15m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
12	61m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
13	71m NW	No main habitat but additional habitats present	Additional: CFPGM (FEP 50%)
14	71m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
15	76m W	No main habitat but additional habitats present	Additional: CFPGM (FEP 50%)
16	84m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
17	84m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
18	84m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
19	88m NW	No main habitat but additional habitats present	Additional: CFPGM (FEP 50%)
20	92m SW	No main habitat but additional habitats present	Additional: CFPGM (FEP 50%)
B	101m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: CFPGM (FEP 50%)
B	102m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
22	112m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
23	116m NW	Lowland calcareous grassland	Main habitat: LCGRA (FEP + HLS)
24	118m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
25	124m NW	Lowland calcareous grassland	Main habitat: LCGRA (INV > 50%, FEP + HLS)
26	126m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
27	131m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
28	147m NW	Lowland calcareous grassland	Main habitat: LCGRA (FEP + HLS)

ID	Location	Main Habitat	Other habitats
29	154m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
30	162m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
31	162m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
32	171m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
33	177m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	197m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
34	205m SW	No main habitat but additional habitats present	Additional: CFPGM (FEP 50%)
35	212m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
36	218m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
37	221m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
38	224m W	Lowland calcareous grassland	Main habitat: LCGRA (FEP + HLS)
39	235m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	237m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
D	238m W	Lowland fens	Main habitat: LFENS (INV > 50%); Additional: CFPGM (FEP 50%)
40	242m SW	No main habitat but additional habitats present	Additional: DWOOD (INV 50%)
E	244m W	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
41	245m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m **4**

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.

Features are displayed on the Habitat designations map on **page 104**

ID	Location	Type	Habitat
2	**On site**	**Network Enhancement Zone 1**	**Not specified**
21	105m NW	Primary Habitat	Lowland calcareous grassland

ID	Location	Type	Habitat
D	210m W	Primary Habitat	Lowland fens
E	226m W	Restorable Habitat	Not specified

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	**0**

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

This data is sourced from Natural England.

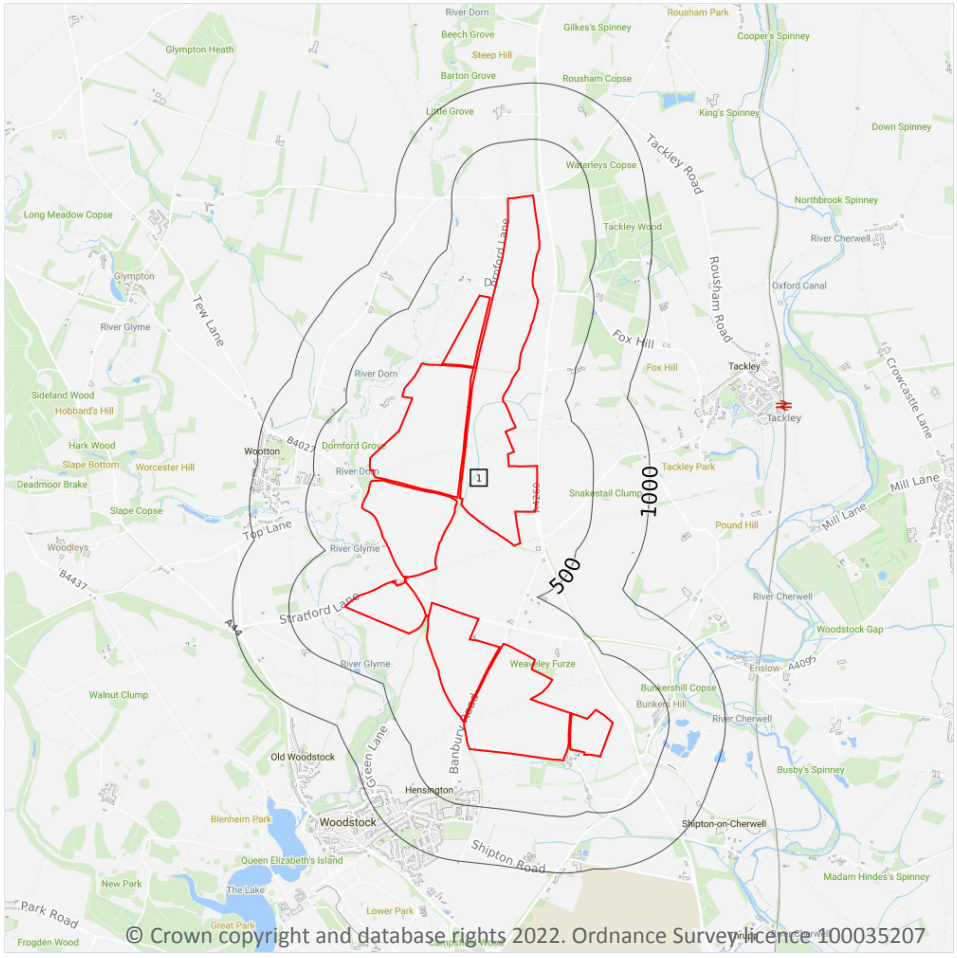
13.4 Limestone Pavement Orders

Records within 250m	**0**

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m	1

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

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 108**

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

This data is sourced from the British Geological Survey.

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

14.2 Artificial and made ground (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

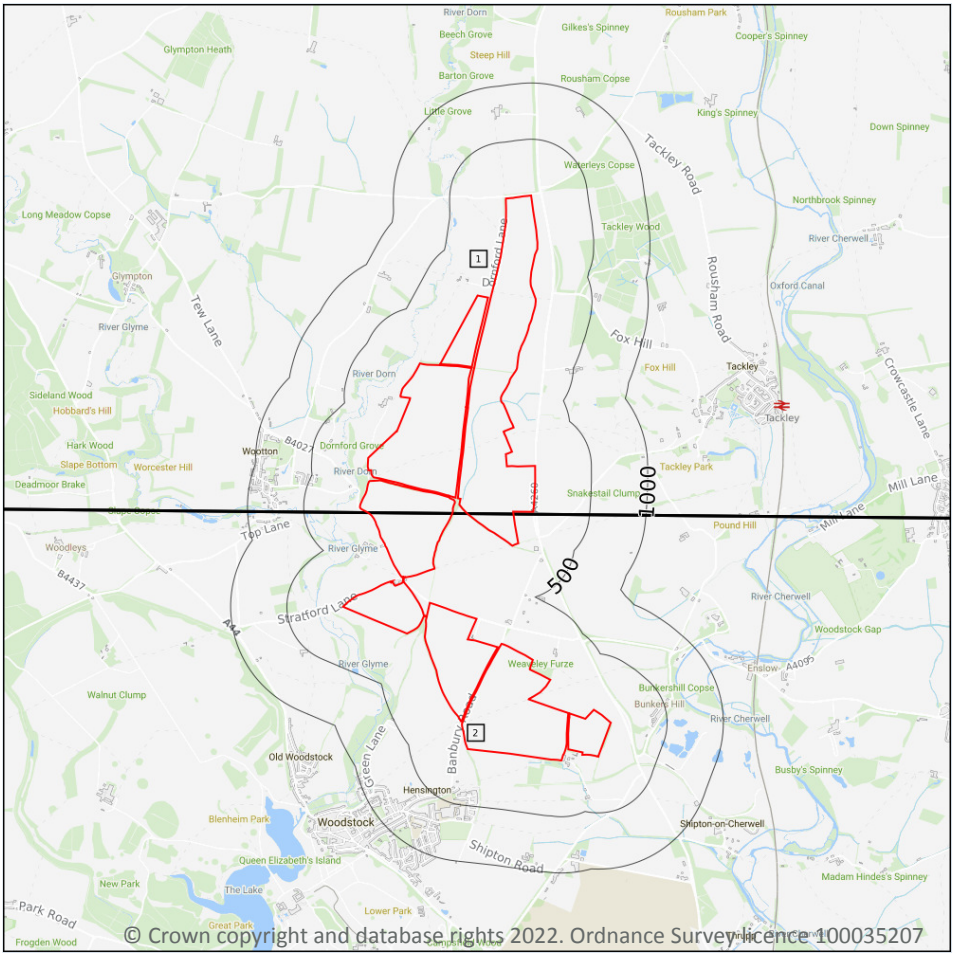
14.6 Bedrock faults and other linear features (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	2

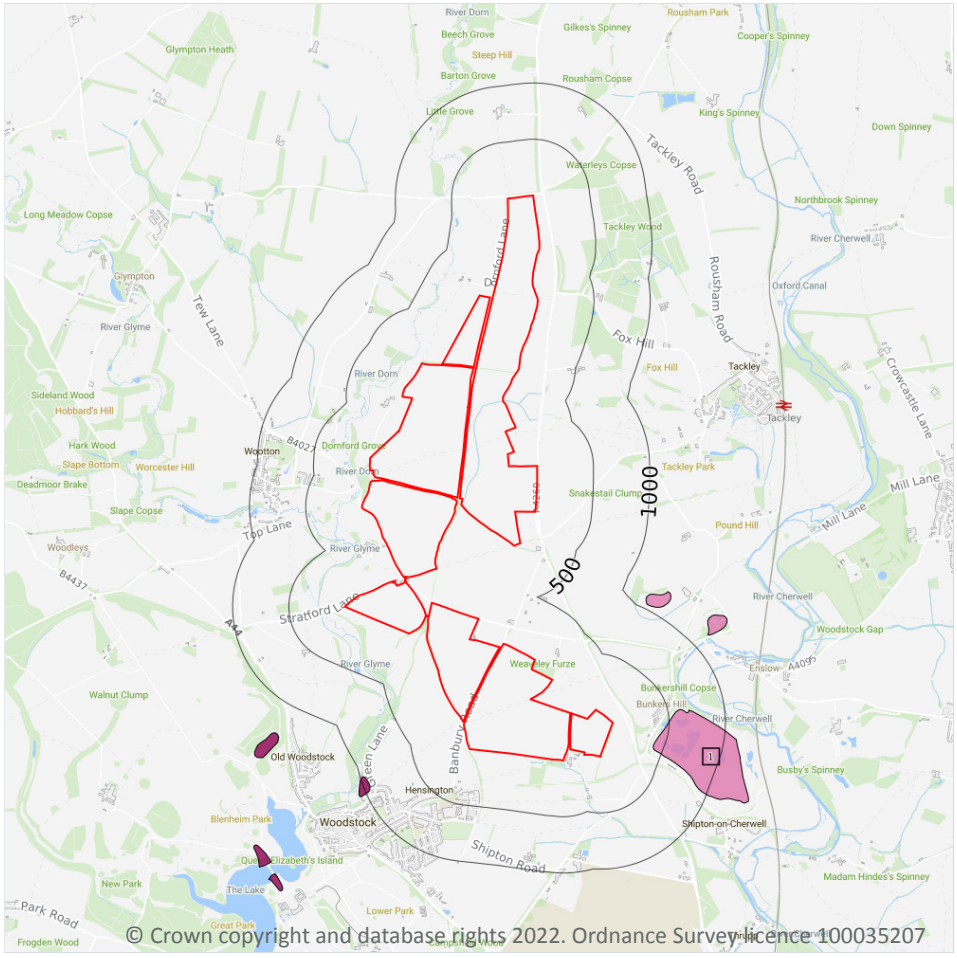
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 112**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW218_chipping_norton_v4
2	On site	Full	Full	Full	Full	EW236_witney_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 113**

ID	Location	LEX Code	Description	Rock description
1	409m E	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

This data is sourced from the British Geological Survey.

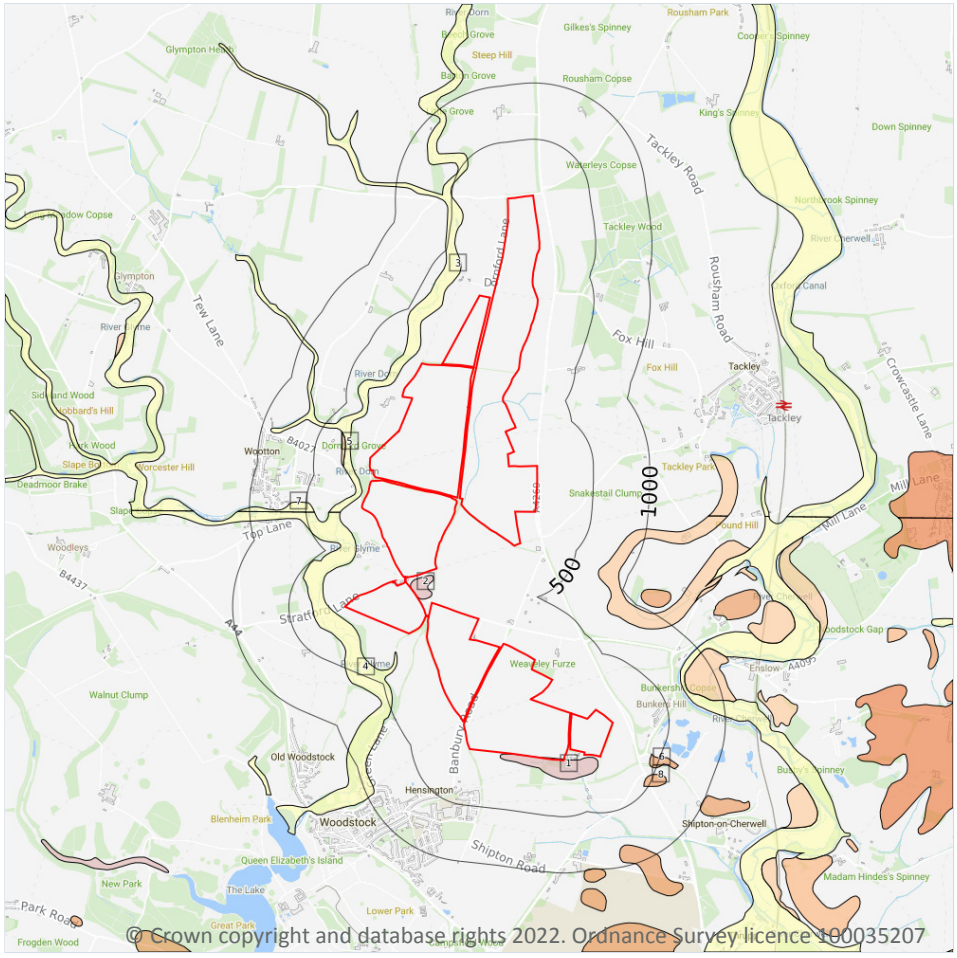
15.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m **8**

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 115**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**HEAD-XCZSV**	**HEAD**	**CLAY, SILT, SAND AND GRAVEL**
2	**On site**	**HEAD-XCZSV**	**HEAD**	**CLAY, SILT, SAND AND GRAVEL**
3	48m NW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
4	97m SW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
5	230m W	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL
6	421m E	WV-XSV	WOLVERCOTE SAND AND GRAVEL MEMBER	SAND AND GRAVEL
7	425m W	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
8	448m SE	WV-XSV	WOLVERCOTE SAND AND GRAVEL MEMBER	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	**3**

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Mixed**	**High**	**Very Low**
On site	**Mixed**	**High**	**Very Low**
48m SW	Intergranular	High	Very Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	**0**

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

This data is sourced from the British Geological Survey.

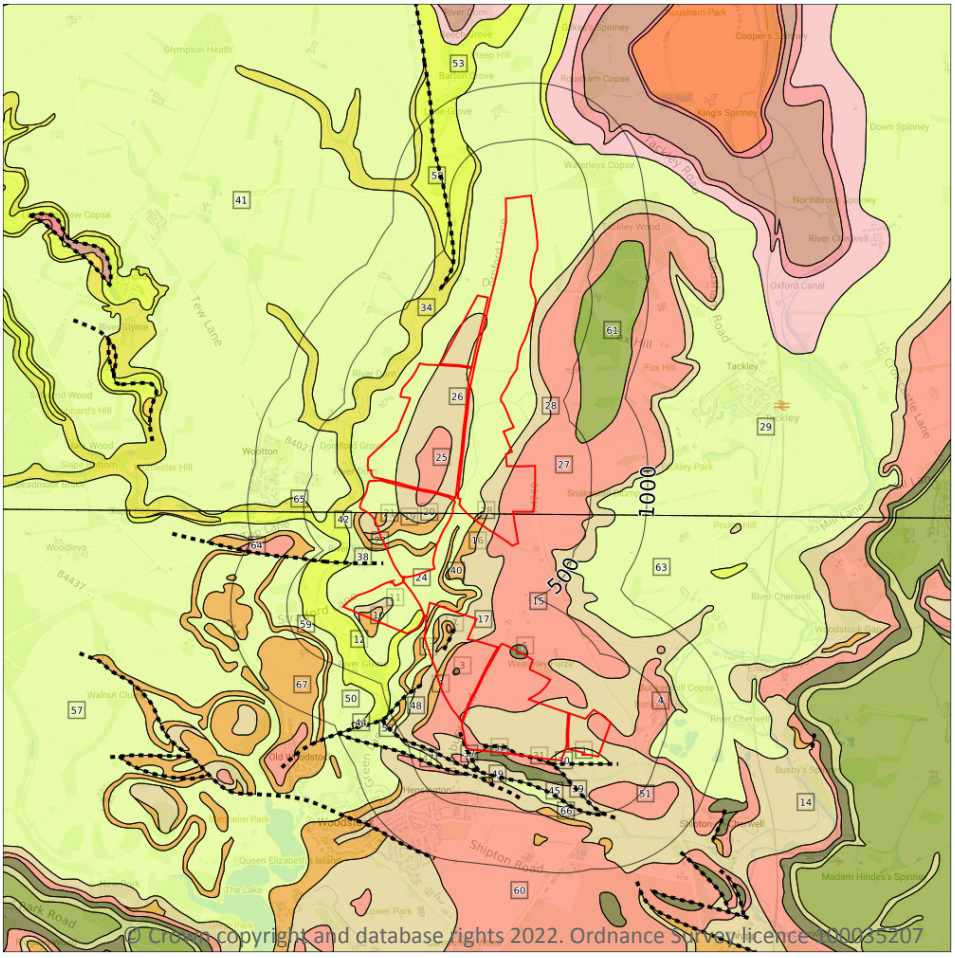
15.7 Landslip permeability (50k)

Records within 50m	**0**

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m **57**

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 117**

ID	Location	LEX Code	Description	Rock age
1	On site	WHL-LMST	WHITE LIMESTONE FORMATION - LIMESTONE	BATHONIAN
3	On site	KLC-MDST	KELLAWAYS CLAY MEMBER - MUDSTONE	CALLOVIAN
4	On site	CB-LMST	CORNBRASH FORMATION - LIMESTONE	BATHONIAN
5	On site	KLC-MDST	KELLAWAYS CLAY MEMBER - MUDSTONE	CALLOVIAN

ID	Location	LEX Code	Description	Rock age
6	On site	FMB-LMST	FOREST MARBLE FORMATION - LIMESTONE	BATHONIAN
7	On site	CB-LMST	CORNBRASH FORMATION - LIMESTONE	BATHONIAN
8	On site	FMB-LMST	FOREST MARBLE FORMATION - LIMESTONE	BATHONIAN
9	On site	FMB-LMST	FOREST MARBLE FORMATION - LIMESTONE	BATHONIAN
10	On site	FMB-LMST	FOREST MARBLE FORMATION - LIMESTONE	BATHONIAN
11	On site	FMB-MDST	FOREST MARBLE FORMATION - MUDSTONE	BATHONIAN
12	On site	HMB-LMST	HAMPEN FORMATION - LIMESTONE	BATHONIAN
13	On site	WHL-MDST	WHITE LIMESTONE FORMATION - MUDSTONE	BATHONIAN
14	On site	FMB-MDST	FOREST MARBLE FORMATION - MUDSTONE	BATHONIAN
15	On site	CB-LMST	CORNBRASH FORMATION - LIMESTONE	BATHONIAN
16	On site	FMB-LMST	FOREST MARBLE FORMATION - LIMESTONE	BATHONIAN
17	On site	FMB-MDST	FOREST MARBLE FORMATION - MUDSTONE	BATHONIAN
18	On site	FMB-MDST	FOREST MARBLE FORMATION - MUDSTONE	BATHONIAN
19	On site	FMB-LMST	FOREST MARBLE FORMATION - LIMESTONE	BATHONIAN
20	On site	FMB-MDST	FOREST MARBLE FORMATION - MUDSTONE	BATHONIAN
21	On site	FMB-LMST	FOREST MARBLE FORMATION - LIMESTONE	BATHONIAN
22	On site	FMB-MDST	FOREST MARBLE FORMATION - MUDSTONE	BATHONIAN
23	On site	WHL-MDST	WHITE LIMESTONE FORMATION - MUDSTONE	BATHONIAN
24	On site	WHL-LMST	WHITE LIMESTONE FORMATION - LIMESTONE	BATHONIAN
25	On site	CB-LMST	CORNBRASH FORMATION - LIMESTONE	BATHONIAN
26	On site	FMB-LSMD	FOREST MARBLE FORMATION - LIMESTONE AND MUDSTONE, INTERBEDDED	BATHONIAN
27	On site	CB-LMST	CORNBRASH FORMATION - LIMESTONE	BATHONIAN
28	On site	FMB-LSMD	FOREST MARBLE FORMATION - LIMESTONE AND MUDSTONE, INTERBEDDED	BATHONIAN
29	On site	WHL-LMST	WHITE LIMESTONE FORMATION - LIMESTONE	BATHONIAN
31	On site	CB-LMST	CORNBRASH FORMATION - LIMESTONE	BATHONIAN
32	On site	KLC-MDST	KELLAWAYS CLAY MEMBER - MUDSTONE	CALLOVIAN
34	10m NW	SHHB-ARSL	SHARP'S HILL FORMATION - ARGILLACEOUS ROCKS WITH SUBORDINATE SANDSTONE AND LIMESTONE	BATHONIAN

ID	Location	LEX Code	Description	Rock age
35	23m W	FMB-LMST	FOREST MARBLE FORMATION - LIMESTONE	BATHONIAN
37	72m SW	CB-LMST	CORNBRASH FORMATION - LIMESTONE	BATHONIAN
39	80m S	FMB-MDST	FOREST MARBLE FORMATION - MUDSTONE	BATHONIAN
40	112m E	FMB-MDST	FOREST MARBLE FORMATION - MUDSTONE	BATHONIAN
41	130m NW	WHL-LMST	WHITE LIMESTONE FORMATION - LIMESTONE	BATHONIAN
42	149m W	HMB-LMST	HAMPEN FORMATION - LIMESTONE	BATHONIAN
45	218m S	WHL-LMST	WHITE LIMESTONE FORMATION - LIMESTONE	BATHONIAN
47	219m S	CB-LMST	CORNBRASH FORMATION - LIMESTONE	BATHONIAN
48	220m W	WHL-LMST	WHITE LIMESTONE FORMATION - LIMESTONE	BATHONIAN
49	231m S	FMB-LMST	FOREST MARBLE FORMATION - LIMESTONE	BATHONIAN
50	263m SW	WHL-LMST	WHITE LIMESTONE FORMATION - LIMESTONE	BATHONIAN
51	268m S	CB-LMST	CORNBRASH FORMATION - LIMESTONE	BATHONIAN
52	275m SW	WHL-LMST	WHITE LIMESTONE FORMATION - LIMESTONE	BATHONIAN
53	282m NW	CNL-LMOOL	CHIPPING NORTON LIMESTONE FORMATION - LIMESTONE, OOIDAL	BATHONIAN
54	298m W	WHL-LMST	WHITE LIMESTONE FORMATION - LIMESTONE	BATHONIAN
56	328m W	WHL-MDST	WHITE LIMESTONE FORMATION - MUDSTONE	BATHONIAN
57	348m SW	WHL-LMST	WHITE LIMESTONE FORMATION - LIMESTONE	BATHONIAN
58	359m NW	CNL-LMOOL	CHIPPING NORTON LIMESTONE FORMATION - LIMESTONE, OOIDAL	BATHONIAN
59	367m SW	WHL-MDST	WHITE LIMESTONE FORMATION - MUDSTONE	BATHONIAN
60	385m S	CB-LMST	CORNBRASH FORMATION - LIMESTONE	BATHONIAN
61	398m E	KLOX-MDSS	KELLAWAYS FORMATION AND OXFORD CLAY FORMATION (UNDIFFERENTIATED) - MUDSTONE, SILTSTONE AND SANDSTONE	CALLOVIAN
62	399m W	WHL-LMST	WHITE LIMESTONE FORMATION - LIMESTONE	BATHONIAN
63	408m E	WHL-LMST	WHITE LIMESTONE FORMATION - LIMESTONE	BATHONIAN
65	425m W	SHHB-ARSL	SHARP'S HILL FORMATION - ARGILLACEOUS ROCKS WITH SUBORDINATE SANDSTONE AND LIMESTONE	BATHONIAN
66	426m S	FMB-LMST	FOREST MARBLE FORMATION - LIMESTONE	BATHONIAN
67	427m SW	FMB-LMST	FOREST MARBLE FORMATION - LIMESTONE	BATHONIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	41

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	Low	Very Low
On site	Fracture	Low	Very Low
On site	Fracture	Low	Very Low
On site	Fracture	Low	Very Low
On site	Fracture	Very High	High
On site	Fracture	Very High	High
On site	Fracture	Very High	High
On site	Fracture	Very High	Very High
On site	Fracture	Very High	High
On site	Fracture	Low	Very Low
On site	Fracture	Low	Very Low
On site	Fracture	Very High	High
On site	Fracture	Very High	Low
On site	Fracture	Very High	Low
On site	Fracture	Very High	High
On site	Fracture	Very High	Very High
On site	Fracture	Very High	High
On site	Fracture	Very High	High
On site	Fracture	Low	Very Low
On site	Fracture	Low	Very Low
On site	Fracture	Very High	Low
On site	Fracture	Low	Very Low
On site	Fracture	Very High	High

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Fracture**	**Very High**	**High**
On site	**Fracture**	**Very High**	**High**
On site	**Fracture**	**Very High**	**Very High**
On site	**Fracture**	**Very High**	**High**
On site	**Fracture**	**Low**	**Very Low**
On site	**Fracture**	**Low**	**Very Low**
On site	**Fracture**	**Very High**	**Very High**
On site	**Fracture**	**Very High**	**Very High**
On site	**Fracture**	**Very High**	**Very High**
On site	**Fracture**	**Very High**	**High**
On site	**Fracture**	**Low**	**Very Low**
On site	**Fracture**	**Very High**	**High**
On site	**Fracture**	**Very High**	**High**
On site	**Fracture**	**Very High**	**Low**
On site	**Fracture**	**Very High**	**High**
On site	**Fracture**	**Very High**	**Very High**
10m W	Mixed	High	Low
23m S	Fracture	Very High	High

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	**10**

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.

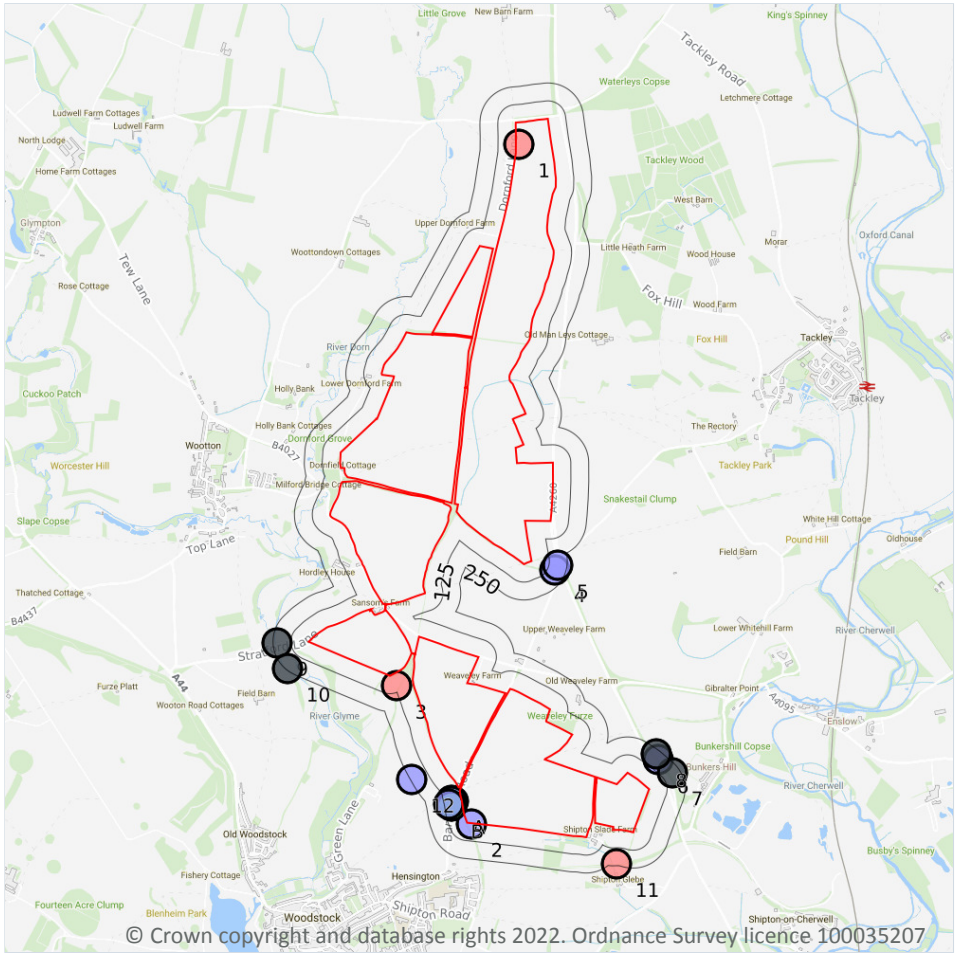
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 117**

ID	Location	Category	Description
2	**On site**	**FAULT**	**Fault, observed**
30	**On site**	**FAULT**	**Fault, inferred**

ID	Location	Category	Description
33	9m SW	FAULT	Fault, inferred, displacement unknown
36	30m S	FAULT	Fault, inferred, displacement unknown
38	80m SW	FAULT	Fault, inferred, displacement unknown
43	153m S	FAULT	Fault, inferred
44	157m W	FAULT	Fault, inferred
46	219m S	FAULT	Fault, inferred
55	312m NW	FAULT	Fault, inferred
64	413m NW	FAULT	Fault, observed

This data is sourced from the British Geological Survey.

16 Boreholes



16.1 BGS Boreholes

Records within 250m	17

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.

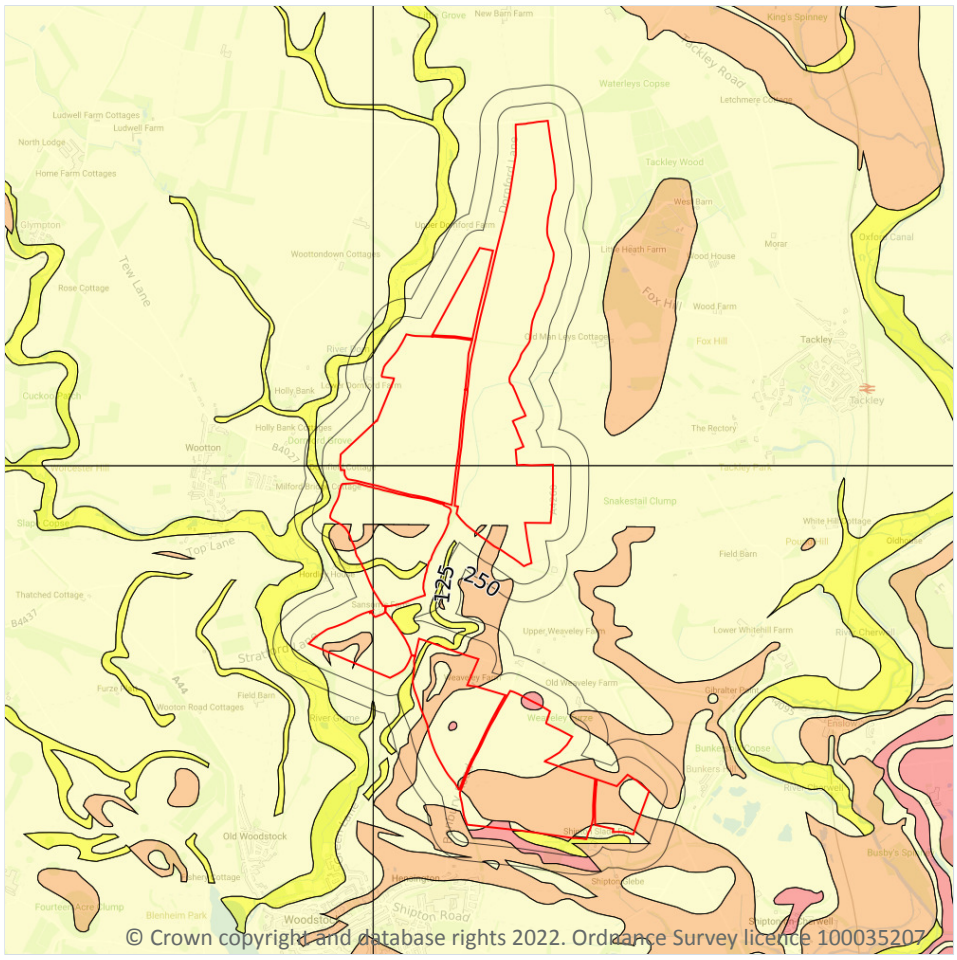
Features are displayed on the Boreholes map on **page 123**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	**On site**	**446020 222230**	**GAS COUNCIL GCN162**	**185.62**	**N**	**331051**
2	7m S	445690 217480	A34 WOODSTOCK BYPASS TP 5	1.0	N	330615
A	59m W	445560 217640	A34 WOODSTOCK BYPASS 16	10.0	N	330610

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	66m W	445550 217650	A34 WOODSTOCK BYPASS 14	15.0	N	330608
A	69m W	445550 217640	A34 WOODSTOCK BYPASS TP 11	2.0	N	330619
B	74m W	445550 217610	A34 WOODSTOCK BYPASS 15	15.0	N	330609
3	79m SE	445160 218450	GAS COUNCIL GCN 163	222.81	N	330548
B	92m W	445530 217620	A34 WOODSTOCK BYPASS 13	10.0	N	330607
4	174m E	446270 219260	STURDYS CASTLE	-2.0	N	330658
5	186m E	446290 219290	STURDYS CASTLE	-2.0	N	330657
6	195m NE	446990 217930	BLUE CIRCLE QUARRY OXFORD	-2.0	N	330629
7	198m NE	447090 217840	SHIPTON ON CHERWELL OXFORD	-	Y	N/A
8	220m NE	446980 217970	SHIPTON ON CHERWELL OXFORD	-	Y	N/A
9	220m W	444330 218750	RIVER GLYME WS1	-	Y	N/A
10	239m SW	444400 218570	RIVER GLYME WS2	-	Y	N/A
11	240m S	446700 217200	SLADE COTTAGES	46.0	N	330655
12	243m SW	445270 217790	A34 WOODSTOCK BYPASS 12	6.0	N	330606

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	5

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).

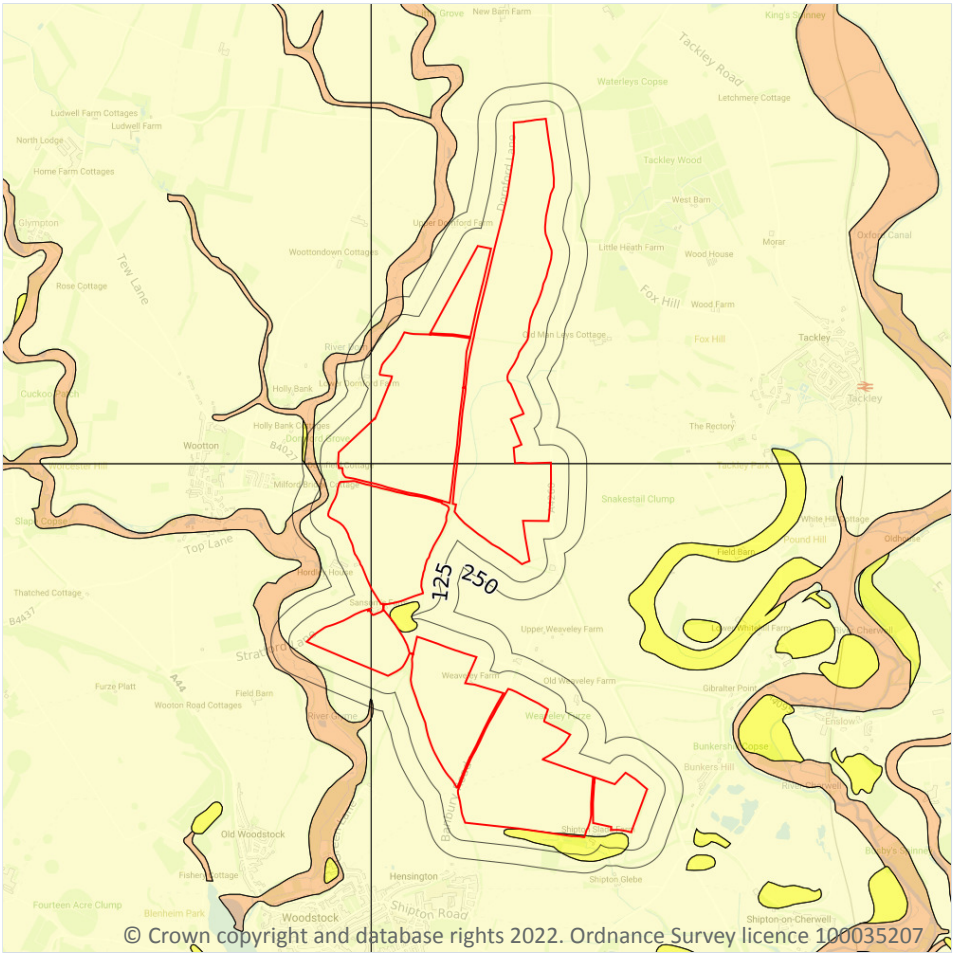
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 125**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**
On site	**Very low**	**Ground conditions predominantly low plasticity.**
On site	**Low**	**Ground conditions predominantly medium plasticity.**

Location	Hazard rating	Details
On site	**Moderate**	**Ground conditions predominantly high plasticity.**
48m NW	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

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

17.2 Running sands

Records within 50m	3

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.

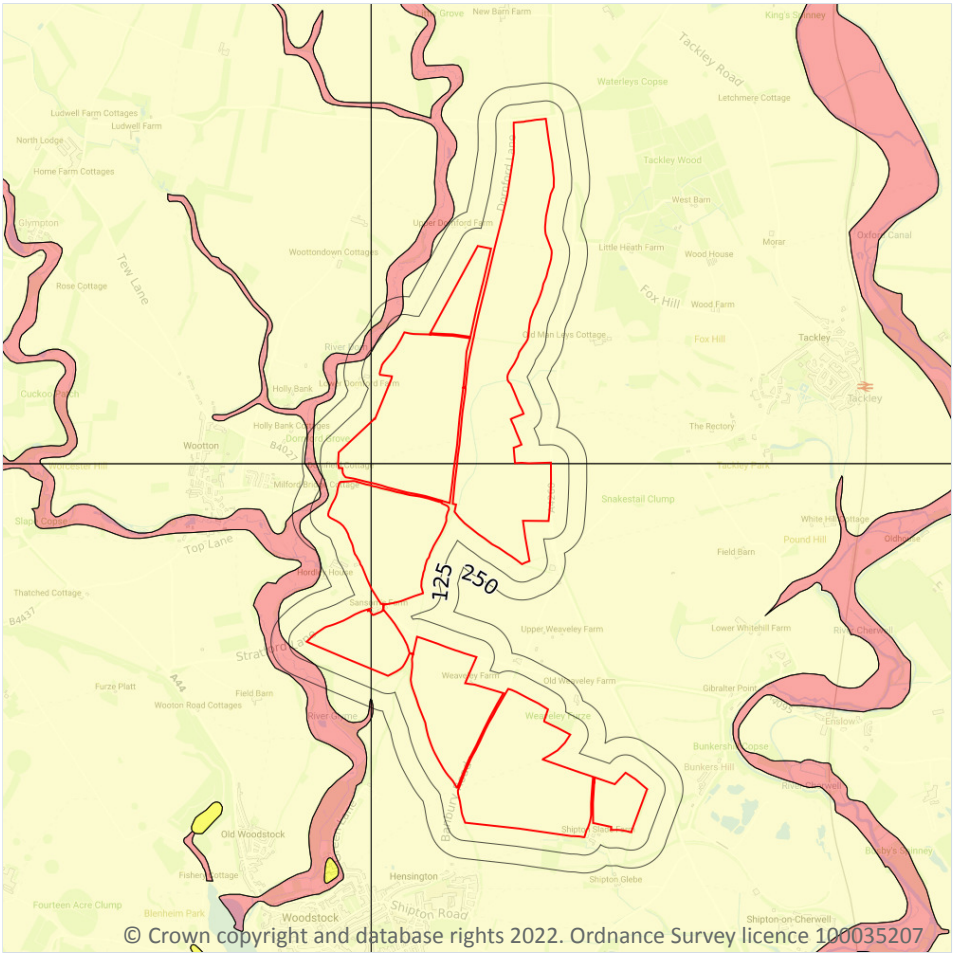
Features are displayed on the Natural ground subsidence - Running sands map on **page 127**

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

Location	Hazard rating	Details
On site	**Very low**	**Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.**
48m NW	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	2

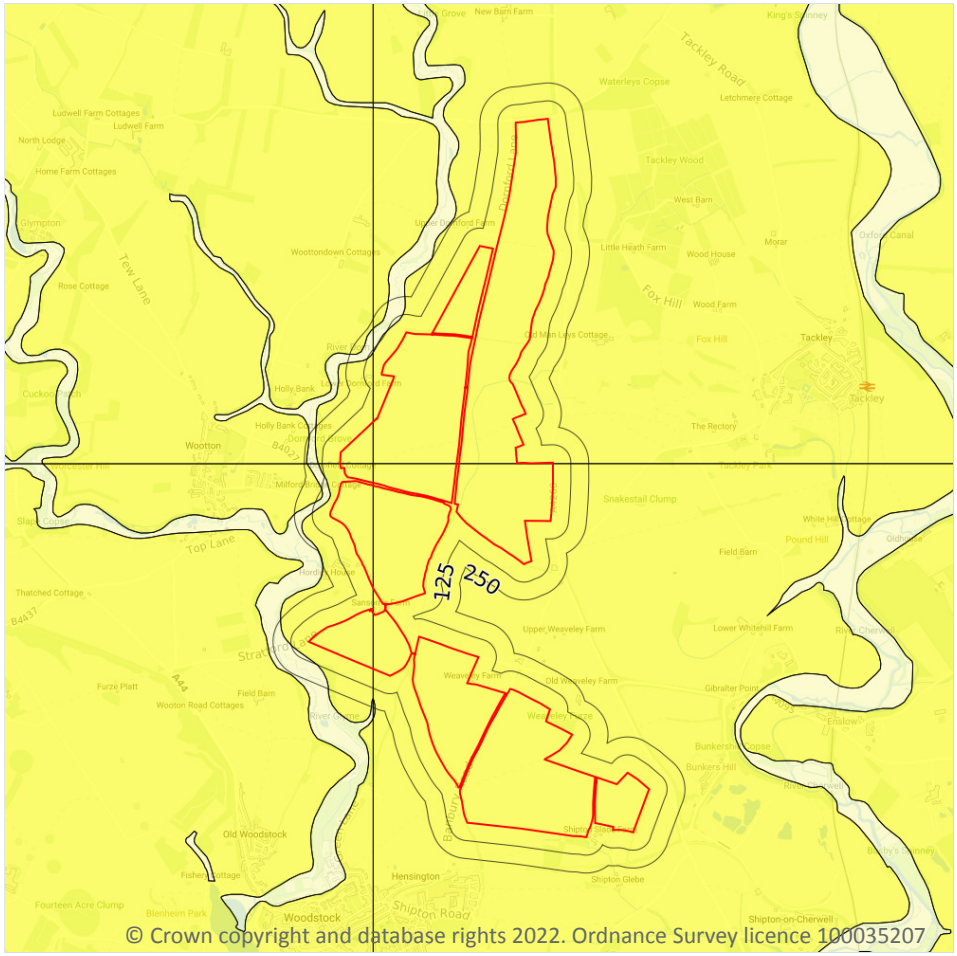
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 129**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**
48m NW	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	2

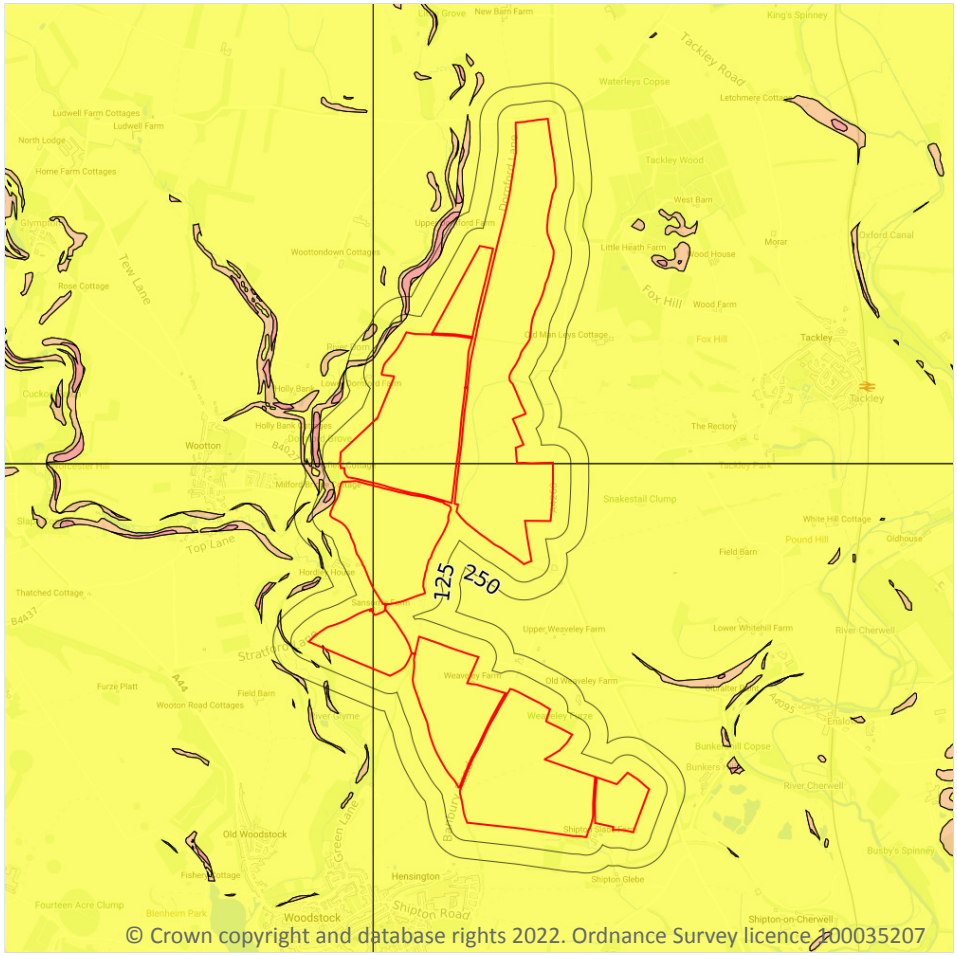
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 131**

Location	Hazard rating	Details
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely to be present.**
48m NW	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m	4

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

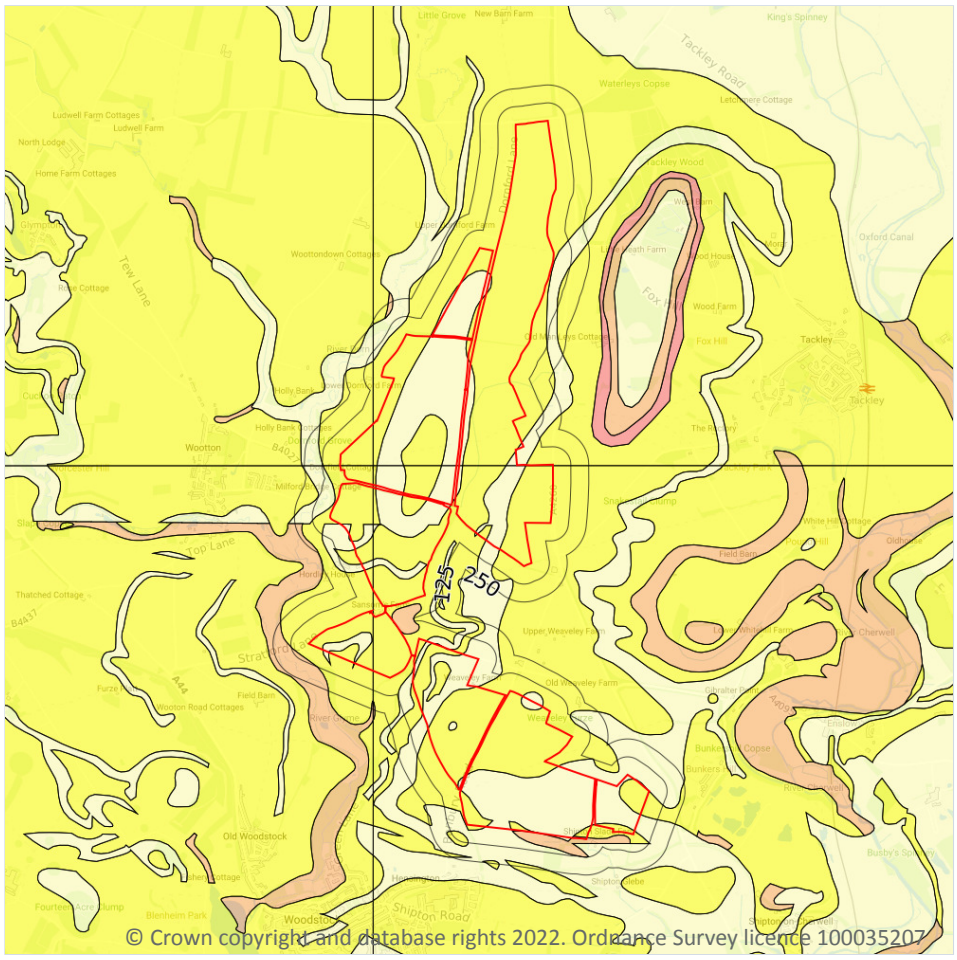
Features are displayed on the Natural ground subsidence - Landslides map on **page 132**

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

Location	Hazard rating	Details
On site	**Low**	**Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.**
10m NW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
35m W	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



Site Outline

Search buffers in metres (m)

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

17.6 Ground dissolution of soluble rocks

Records within 50m	4

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.

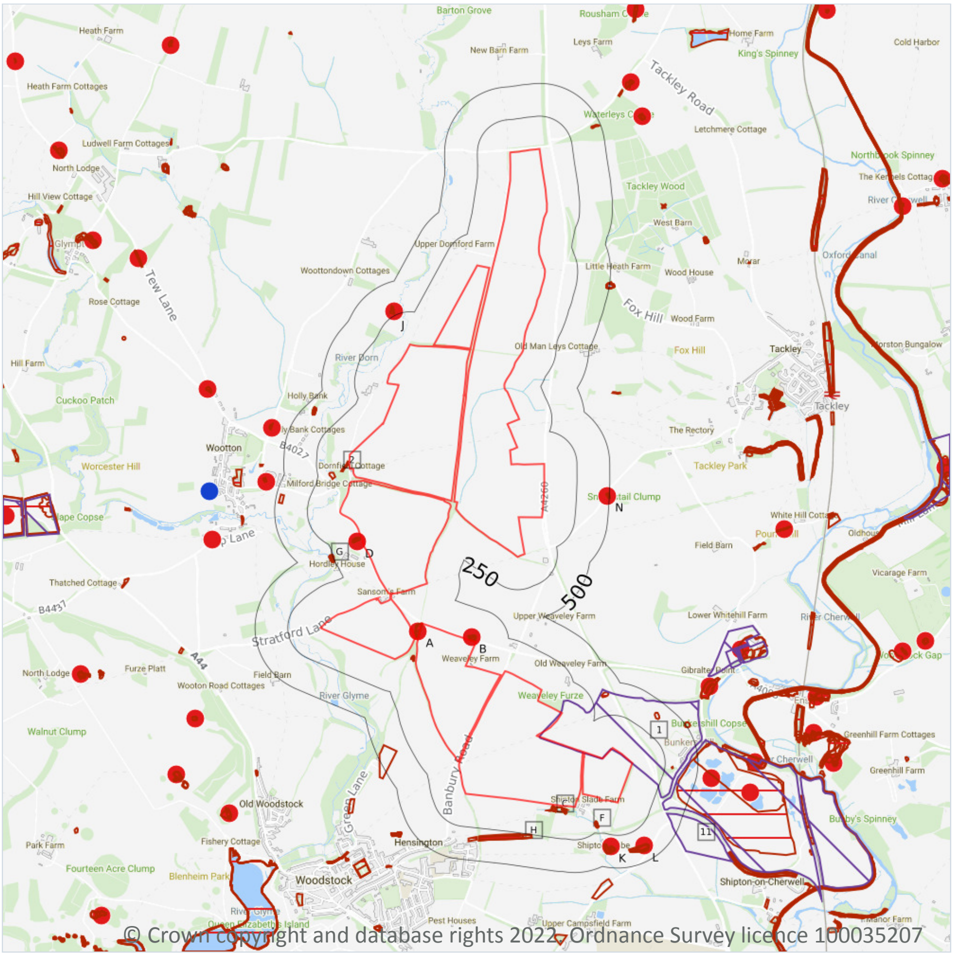
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 134**

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

Location	Hazard rating	Details
On site	**Very low**	**Soluble rocks are present within the ground. Few dissolution features are likely to be present. Potential for difficult ground conditions or localised subsidence are at a level where they need not be considered.**
On site	**Low**	**Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances.**
10m NW	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.

18 Mining, ground workings and natural cavities



Site Outline

Search buffers in metres (m)

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

Non Coal Mining

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

18.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m	7

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 136**

ID	Location	Details	Description
A	11m W	Name: Sansom's Platt Address: KIDLINGTON, Oxfordshire Commodity: Limestone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
B	25m N	Name: Waverley Farm Address: Woodstock, KIDLINGTON, Oxfordshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
D	41m W	Name: Hordley Farm Address: Wootton, OXFORD, Oxfordshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
J	285m NW	Name: Woottondown Cottages Address: Glympton, OXFORD, Oxfordshire Commodity: Limestone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
K	338m S	Name: Shipton Slade Farm Address: Shipton on Cherwell, KIDLINGTON, Oxfordshire Commodity: Limestone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

ID	Location	Details	Description
L	386m SE	Name: Shipton Slade Farm Address: Shipton on Cherwell, KIDLINGTON, Oxfordshire Commodity: Limestone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
N	485m E	Name: Sturdy's Castle Inn Address: Kirtlington, OXFORD, Oxfordshire Commodity: Limestone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m **37**

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 136**

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Unspecified Old Quarry**	**1923**	**1:10560**
A	**On site**	**Unspecified Old Quarry**	**1950**	**1:10560**
A	**On site**	**Unspecified Pit**	**1898**	**1:10560**
A	**On site**	**Unspecified Old Quarry**	**1938**	**1:10560**
A	**On site**	**Unspecified Old Quarry**	**1919**	**1:10560**
B	**On site**	**Unspecified Old Quarry**	**1923**	**1:10560**
B	3m N	Unspecified Old Quarry	1919	1:10560
2	4m W	Cuttings	1880	1:10560
A	4m W	Unspecified Pit	1880	1:10560
B	7m N	Unspecified Quarry	1898	1:10560
B	9m N	Sand Pit	1876	1:10560
C	9m S	Ponds	1978	1:10000

ID	Location	Land Use	Year of mapping	Mapping scale
B	9m N	Unspecified Old Quarry	1950	1:10560
D	10m SW	Old Clay Pit	1950	1:10560
E	16m W	Unspecified Pit	1923	1:10560
E	16m W	Unspecified Pit	1938	1:10560
E	16m W	Unspecified Pit	1919	1:10560
C	18m S	Pond	1876	1:10560
C	18m S	Pond	1919	1:10560
C	18m S	Pond	1923	1:10560
E	18m W	Unspecified Pit	1880	1:10560
D	19m W	Old Clay Pit	1923	1:10560
C	19m S	Pond	1876	1:10560
C	19m S	Pond	1898	1:10560
C	21m S	Pond	1923	1:10560
C	22m S	Pond	1950	1:10560
C	23m S	Pond	1898	1:10560
C	23m S	Pond	1950	1:10560
D	30m SW	Unspecified Disused Pit	1978	1:10000
3	125m NW	Pond	1950	1:10560
F	162m S	Pond	1923	1:10560
F	162m S	Pond	1898	1:10560
F	163m S	Pond	1876	1:10560
F	164m S	Pond	1919	1:10560
G	245m W	Pond	1880	1:10560
H	249m S	Cuttings	1923	1:10560
G	250m W	Pond	1978	1:10000

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m	0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	3

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 136**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
1	**On site**	**Bunkers Hill**	**Limestone**	**Surface mineral working**	**Application**	**Not available**
6	325m E	Bunkers Hill	Limestone	Surface mineral working	Valid	30/6/48
11	382m E	Bunkers Hill	Limestone	Surface mineral working	Withdrawn	Not available

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	0

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).

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	0

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

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0

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

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

18.11 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

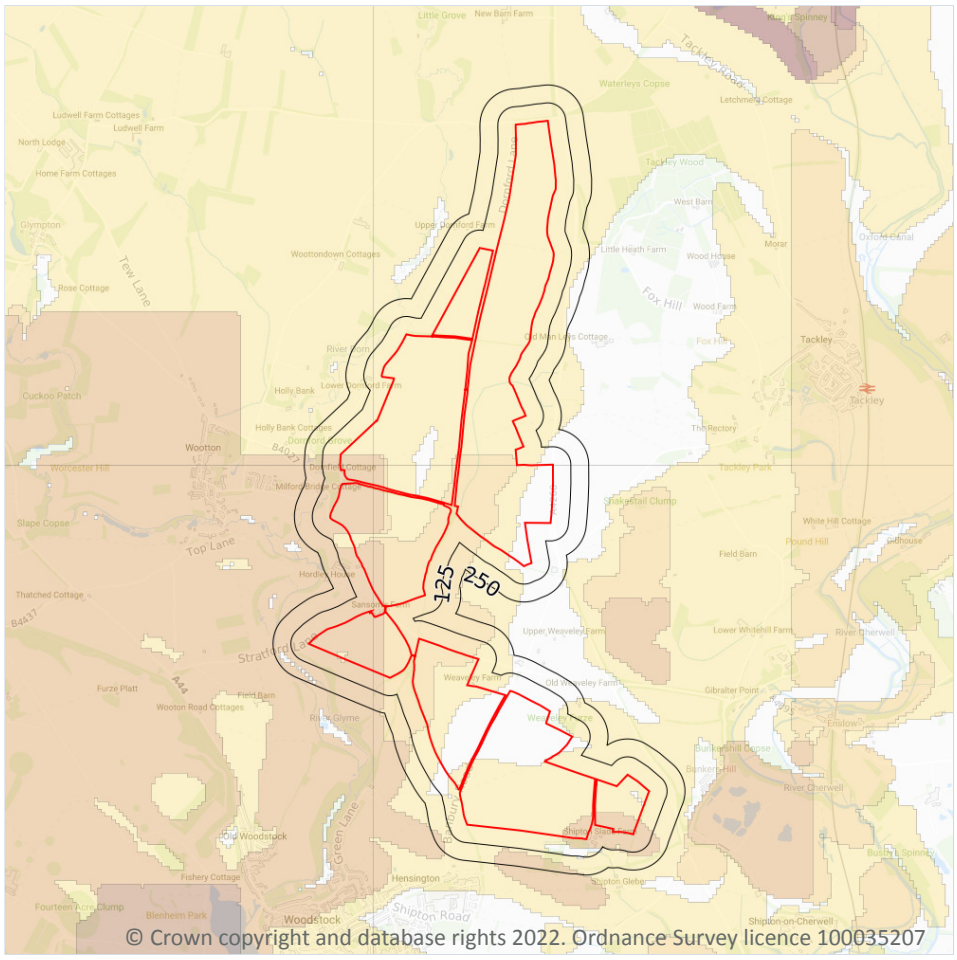
18.13 Clay mining

Records on site	0

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

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

19 Radon



Site Outline

Search buffers in metres (m)

Greater than 30%

Between 10% and 30%

Between 5% and 10%

Between 3% and 5%

Between 1% and 3%

Less than 1%

19.1 Radon

Records on site	4

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

Features are displayed on the Radon map on **page 143**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Between 3% and 5%**	**Basic**
On site	**Less than 1%**	**None****

Location	Estimated properties affected	Radon Protection Measures required
On site	**Between 1% and 3%**	**None**
On site	**Between 5% and 10%**	**Basic**

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

20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m	162

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**

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

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
6m SE	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
7m S	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
9m N	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
9m S	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
10m S	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
10m W	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
10m S	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
12m N	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
12m N	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
16m W	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
17m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
18m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
18m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
23m S	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
27m S	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
29m SW	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
30m S	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
32m SE	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
33m S	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
40m N	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
45m S	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
48m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

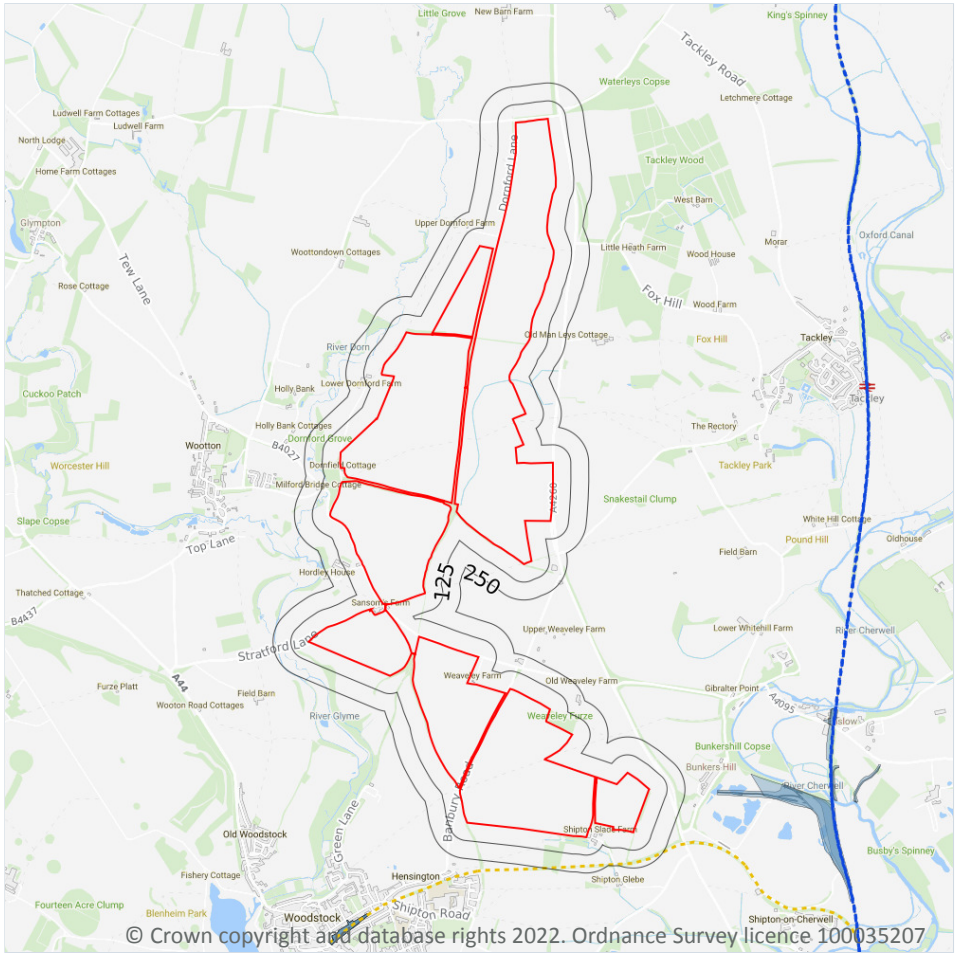
20.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects



21.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m	0

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

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m	1

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

Features are displayed on the Railway infrastructure and projects map on **page 155**

Location	Description
201m S	Abandoned

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m	0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m	0

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

This data is sourced from HS2 ltd.

Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see [redacted]

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: [redacted]