



Botley West Solar Farm

Environmental Statement

Volume 3

**Appendix 11.11: Southern Site Area – Land Parcel 14,
Desktop Study and Preliminary Risk Assessment**

November 2024

PINS Ref: EN010147

Document Ref: EN010147/APP/6.5

Revision P0

APFP Regulation 5(2)(a); Planning Act 2008; and Infrastructure Planning (Applications:
Prescribed Forms and Procedure) Regulations

Approval for issue

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15 November 2024

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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 Northern Site Area - Land Parcel 14, DTS & PRA

1.1 Introduction

1.1.1 This Appendix of the Environmental Statement (ES) has been prepared by RPS on behalf of Photovolt Development Partners GmbH. (PVDP) for the Applicant, SolarFive Ltd. (SolarFive). This Appendix supports Chapter 11 of the ES.

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 temporary development sites as set out above for installation of ground-mounted solar photovoltaic (PV) panels (Northern Site Area, Central Site Area, 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 1. In 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. This report presents the DTS and PRA for Land Parcel 10 forming Central Site Area as shown in Figure 1.

1.1.5 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-2022-12757-10511 and 10512_1 which are presented as Annex C and D. 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 14 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+A2:2017);
- 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 14)

2.1.1 Land Parcel 14 comprises fields surrounding Denman’s Farm off Eynsham Road near Farmoor, OX2 9NJ. It is located at approximate Ordnance Survey (OS) National Grid Reference (NGR) SP 4609 0534 and occupies an area of approximately 84.2 ha. The extent of land parcel 14 is shown in Figure 1.

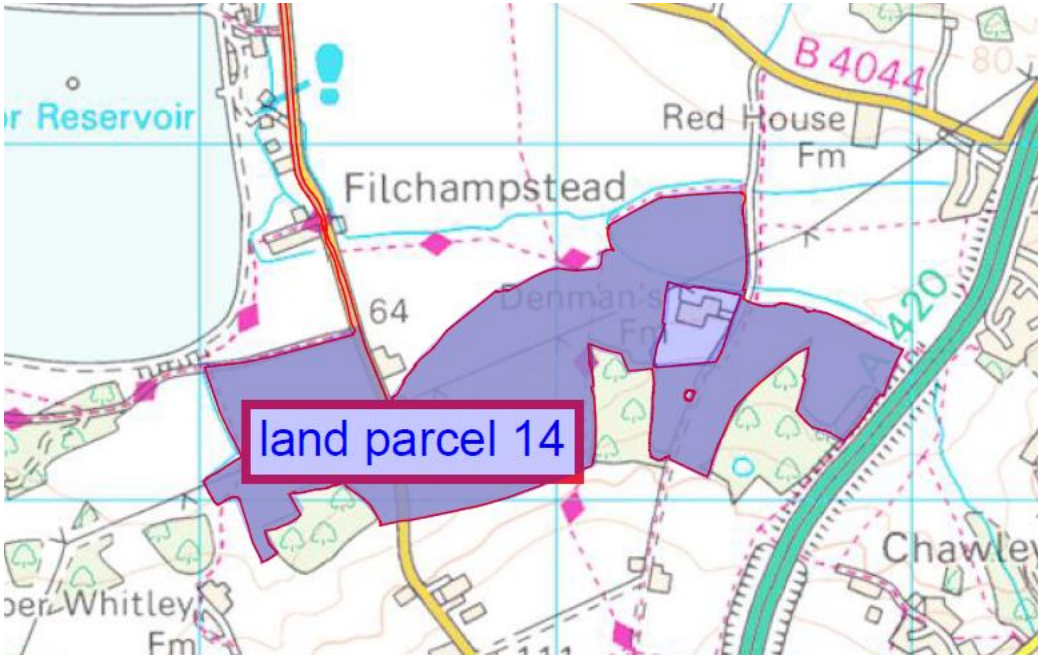


Figure 1: Extent of Land Parcel 14

2.1.2 The topography of Land Parcel 14 slopes from south to north with a difference in elevation from approximately 95 m Above Ordnance Datum (AOD) close to the southern boundary to 65 m AOD on the northern boundary based upon OS map contours.

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

2.1.4 From Google Earth aerial photo images (May 2020), Land Parcel 14 is located in an area of predominantly agricultural land use crossed by overhead lines with pylons present at intervals. From the aerial photo images, neighbouring land consisted of the following:

Table 2.1: Neighbouring Land Uses

Direction	Description
North	Farmoor Reservoir, arable fields, occasional buildings (The Courtyard)
East	Woodland, residential properties, fields, A420
South	Woodland, arable fields, pond within Saddle Copse
West	Arable fields, woodland, Upper Whitley Farm

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 Immediately west of the area designated Land Parcel 14 is a Substation location as proposed by National Grid.
- 2.2.5 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 2022. Extracts from historical maps are included in Annex C.

Table 2.2: Historical Site Uses

On-site Land Use and Features	Dates
Agricultural fields crossed by two footpaths and an east-west orientated drainage ditch with an easterly flow direction	1880-current
Electricity pylons and transmission line orientated south-west to north-east	1971 - current
Chimney/old kiln in east	1900 - 1937
Well to south of Denman’s Farm	1971 - 1994

On-site Land Use and Features	Dates
Orchards in central area	1937 - 1982

2.3.2 Pertinent off-site historical site uses within 250 m are presented below.

Table 2.3: Historical Neighbouring Site Uses

Surrounding Land Uses (250 m radius)	Orientation	Distance	Dates	
			From	To
Denman's Farm	Enclosed within east	0 - 10 m	1876	current
A420	east	50 m	1982	current
Upper Whitley Farm	south-west	175 m	1876	current
Farmoor Reservoir	north-west	75 m	1977	current
Woodland (Saddle Copse, Denman's Copse, Smith Hill Copse)	south	0 m	1876	current

Site Planning History

2.3.3 Relevant and readily available planning records for the site, as obtained from Vale of White Horse District Council planning website are summarised as follows:

- P23/V0423/AG – Denman's Farm Eynsham Road Farmoor Oxford OX2 9NJ. – Application for erection of a general-purpose storage building for machinery, fertilizer and corn.
- P21/V1815/DIS/ P20/V0163/FUL - Hill End Outdoor Education Centre Eynsham Road Botley Oxford OX2 9NJ - Discharge of conditions 4 (Prior to commencement derogation licence approval) & 5(Biodiversity mitigation and enhancement strategy) in application P20/V0163/FUL. Engineering operation to fill-in a disused swimming pool.
- P19/V0351/AG – Denman's Farm, Recording Studios Eynsham Road Farmoor Oxford OX2 9NJ - Relocation of existing glasshouse and construction of two new buildings either side of rebuilt glasshouse.

2.3.4 None of the above planning permissions included planning conditions pertaining to the investigation of potentially contaminated land at the site.

2.4 Environmental Setting

2.4.1 The Groundsure Insights report used for assessment of the environmental setting is 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 Land Parcel 14 are indicated to be as follows:

Table 2.4: Descriptions of Geological Strata

Strata	Description & approximate thickness	Aquifer Classification
Artificial Ground	None recorded	-
Superficial deposits	None recorded	-
Oxford Clay Formation And West Walton Formation (Undifferentiated)	Mudstone and silty mudstone with subsidiary calcilutite, limestone, sandstone and siltstone. Thickness not recorded	Unproductive Stratum

2.4.3 There are no BGS borehole records available for this land parcel or immediate surrounding area.

2.4.4 Localised Made Ground is likely to be present across land parcel 14 as a result of past construction and/or demolition activities associated with the electricity pylons, decommissioning of the former well and former chimney/kiln in the east. No site investigation reports have been reviewed to verify this.

Hydrogeology

2.4.5 The site is located above unproductive strata relating to the Oxford Clay Formation and West Walton Formation. These formations have a low permeability and have negligible significance for water supply or base flow.

2.4.6 According to EA data, the site is not located in a groundwater Source Protection Zone (SPZ).

2.4.7 Information provided by the EA indicates that there are no active licensed groundwater abstractions within 2 km radius.

Surface Water

2.4.8 There are two watercourses within 500 m of Land Parcel 14 which are classified within a River Basin Management Plan published by the EA under the European Water Framework Directive (2000). These are referenced below together with a list of other readily identifiable nearby minor watercourses and water bodies:

Table 2.5: Nearby Watercourses and Water Bodies

Watercourse / Body	Quality Classification (2019)	Approx. Distance and Direction from Site
Filchhampstead Brook at Farmoor	Overall rating (2019) – Bad Chemical rating (2019) - Fail	On site to north of Denman’s Farm and along north-eastern site boundary
Farmoor Reservoir	Overall rating (2019) – Moderate Chemical rating (2019) - Fail	91 m north-west
Unnamed Drain	N/A	On site in west

Watercourse / Body	Quality Classification (2019)	Approx. Distance and Direction from Site
Unnamed Drain	N/A	eastern site boundary
Unnamed Drain	N/A	50 m south-east in Denman's Copse
Pond	N/A	southern site boundary

2.4.9 Information provided by the EA indicates that there are records of two licensed surface water abstractions] within 500 m of Land Parcel 14. The details of these are as follows:

Table 2.6: Licensed Surface Water Abstractions

Licence Holder	Use	Approx. Distance and Direction from Site
J P Gee & Sons Ltd Denman's Farm, Farmoor	Make-Up or Top Up Water (Historical)	163 m south
J P Gee & Sons Ltd Denman's Farm, Farmoor	Make-Up or Top Up Water (Active) Annual Volume (m3): 6,819 Max Daily Volume (m3): 54.55	163 m south

2.4.10 The northern central portion of Land Parcel 14 is recorded as being a Flood Zone 3 i.e., land with a 1 in 100 (1 %) or greater chance of flooding each year from rivers. The highest modelled risk for a 1 in 30-year flood event is for a depth of between 0.30 - 1.00 m across the north and north-east of the land parcel.

Ecologically Sensitive Sites

2.4.11 Natural England data indicates that there are the following ecologically sensitive sites, which constitute environmental receptors as defined within Table 1 of the DEFRA Environmental Protection Act 1990: Part 2A - Contaminated Land Statutory Guidance (2012), located within a 500 m radius of the site.

Table 2.7: Ecologically Sensitive Sites

Environmental Designation	Name	Approx. Distance and Direction from Site
Green Belt	Oxford	On Site
Nitrate Vulnerable Zone	Filchhampstead Brook at Farmoor NVZ (surface water)	On Site
Designated Ancient Woodland	Smith Hill Copse	0 m to south
Designated Ancient Woodland	Denman's Copse	0 m to south
Designated Ancient Woodland	Shadwell Copse	0 m to south

Environmental Designation	Name	Approx. Distance and Direction from Site
Designated Ancient Woodland	Hid's Brake	186 m east
Designated Ancient Woodland	Longmoor Copse	221 m south-east
Designated Ancient Woodland	Bushy Leaze Copse	240 m west
Designated Ancient Woodland	Hid's Copse	337 m east
Designated Ancient Woodland	Long Copse	383 m south-east
Designated Ancient Woodland	Ash Copse	423 m south-east
Designated Ancient Woodland	Well Yard Copse	466 m south-east
Nitrate Vulnerable Zone	Thames (Leach To Evenlode) NVZ (surface water)	217 m south-east
Nitrate Vulnerable Zone	Ock and tributaries (Land Brook confluence to Thames) NVZ (surface water)	493 m south

Radon

2.4.12 Radon can be a risk to human health from inhalation of radioactive elements. 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 14 is not located in an area at risk from radon gas emissions.

Coal Authority

2.4.13 The Interactive Map Viewer on the Coal Authority website indicates that Land Parcel 14 is not located in a coal mining reporting area.

Non-Coal Mining

2.4.14 BGS sources indicate that Land Parcel 14 is not located in an area of recorded non-coal mining (vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities including ball clay, jet, black marble, graphite and chert).

BGS Ground Stability Hazard Ratings

2.4.15 British Geological Survey Ground Stability Hazard ratings for the site are summarised as follows:

Table 2.8: BGS Ground Stability Hazard Ratings

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

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 14.

Environmental Permits

2.5.2 EA and Local Authority data indicates that there is one former process location regulated by an Environmental Permit (under the Environmental Permitting Regulations 2010) within 500 m. This is a former discharge consent for treated sewage effluent to the Oxford Clay at Red House Farm Eynsham some 238 m north-west.

COMAH Sites

2.5.3 There are no records of any operations under the Control of Major Accident Hazards (COMAH) Regulations 1999, located within 500 m of Land Parcel 14.

Pollution Incidents

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

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 an area of low potential risk from Unexploded Bombs. In the absence of known military history, in general accordance with the CIRIA C681 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 associated with the solar farm development. 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 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.

3.2.3 Made Ground may be present locally beneath the site around pylon structures, where present this could represent a potential source of contaminants of concern, however these features are to be retained as part of the development and the ground around them unlikely to be disturbed during construction or operation of the Project.

3.2.4 Ground gases have been discounted as a viable contaminant source from the DTS findings due to an absence of known landfill sites within 250 m and the low permeability cohesive bedrock strata anticipated to be present that will inhibit migration over distance through shallow strata.

On Site – Historical

- 3.2.5 Historical maps indicate former usage as orchards in the central area circa 1930s to 1980s which is likely to have involved use of agrochemicals/pesticides including insecticides or herbicides. Given the time elapsed since end of usage (more than 40 years) it is unlikely that there will be residual high concentrations of these chemicals therefore the risk posed is considered to be low.
- 3.2.6 The only other historical feature of note is a small chimney/kiln feature in the east present between 1900 and 1937. This does not appear to have been associated with any large-scale industrial activity although may represent a localised source of Polycyclic Aromatic Hydrocarbons (PAHs) from historical burning of materials or Made Ground remaining from the former structures.

Off Site – Current

- 3.2.7 Current off-site potential sources of contaminants of concern include Denman's Farm which may include storage of fuels, agricultural chemicals and fertilisers as well as plant/vehicle storage.
- 3.2.8 Red House Farm, Eynsham which has had a consent for discharge of treated sewage effluent to ground. This permit is understood to have lapsed.

Off Site – Historical

- 3.2.9 No historical off-site potentially contaminative land uses have been identified within 250 m.

Potential Pathways

- 3.2.10 The site is indicated to be underlain by the low permeability mudstone strata of the Oxford Clay Formation and West Walton Formation, which will likely limit the downward or lateral migration of contaminants of concern via leaching or shallow groundwater (where present).
- 3.2.11 The low permeability strata will also retard the migration of liquid or gaseous contaminants from off-site sources.
- 3.2.12 The use of driven pile foundations would indicate minimal generation of spoil at the surface therefore airborne migration of dust unlikely.
- 3.2.13 It should be noted that pathways may be modified or exacerbated by disturbance of the site.

Potential Receptors

Controlled Waters

- 3.2.14 The Oxford Clay Formation and West Walton Formation are classed as unproductive strata. Land Parcel 14 is not within any SPZs and there are no current abstractions within 2 km therefore groundwater is not considered to represent a sensitive receptor and is discounted from further assessment in this PRA.

- 3.2.15 A number of surface water bodies including Filchhampstead Brook and the Farmoor water supply reservoir to the north-west have been identified on and within 100 m of the site and these are considered to represent the main controlled waters receptors for the site area.

Human Health

- 3.2.16 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 very low given the historical site usage, low risk of contact with residual soils and likely absence of shallow groundwater.
- 3.2.17 Off-site users are unlikely to be adversely impacted by any site derived contaminants the nearest large-scale residential development being more than 200 m east.
- 3.2.18 The assessment does not consider the risk to construction/demolition workers during redevelopment. These risks will be managed through appropriate Health and Safety legislation include H&S At Work Act and in accordance with the Construction Design and Management (CDM) regulations of 2015.

Solar Farm Structures

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

Sensitive Land Uses

- 3.2.20 There are a number of designated Ancient Woodland sites bordering or in close proximity to this land parcel. The construction/operational phases of the proposed solar farm development are considered unlikely to adversely impact on these off-site receptors although any changes in long-term shallow drainage patterns from the installation of the banks of PV panels cannot be discounted.

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 – historical: Former orchards, kiln/chimney	Agrochemicals, PAHs, metals	Soils	Direct contact/ingestion	✓	Future site users	Low	Possible historical use of pesticides in orchards, time elapsed would indicate low risk of remaining high levels. Possible residual Made Ground around kiln/pylon locations.	
			Inhalation of volatiles	✓				
			Airborne migration of soil or dust	✗	Off-site users			N/A
		Groundwater	Inhalation of volatiles	✓	Future site users	Low		Lateral migration likely to be minimal due to low permeability of outcropping cohesive strata and likely absence of shallow groundwater.
				✓	Off-site users			
				Lateral migration to nearest surface water drains/ditches or wooded areas through shallow soils or shallow groundwater	✓	Surface watercourses Ecological receptors		
Off-site – Current: Denman’s Farm and Red House Farm, Eynsham	Metals, hydrocarbons, agrochemicals, sewage effluent	Groundwater	Direct contact/ingestion	✓	Future site users	Low		
			Inhalation of volatiles	✓				

Potential Source	Contaminants of Concern	Via	Potential Pathways	Linkage Potentially Active?	Receptors	Qualitative Risk Rating	Notes
On Site – Natural strata	chemical attack (sulphates)	Chemical Attack	Direct contact	✓	concrete slabs	Low-Moderate	It is anticipated that concrete slabs may be required for ancillary structures.

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 from contamination.

4 Conclusions and Recommendations

4.1 Preliminary Geo-Environmental 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 14.

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 Oxford Clay Formation and West Walton Formation outcrop across Land Parcel 14, likely to comprise mudstones or silty mudstones. These strata are likely to be suitable for installation of driven foundations or anchors for photovoltaic panels, however the mudstones tend to weather to clays which could be prone to shrinkage/heave effects particularly in close proximity to mature trees bordering the site or seasonal variations in moisture content.

4.2.2 The location of the former well may represent a geotechnical constraint and this should be identified and treated if not already decommissioned.

4.2.3 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.

4.3 Recommendations

4.3.1 We recommend the following actions to clarify potential land stability risks at the site:

- Based on anticipated ground conditions there is the potential for clay heave/shrinkage issues to affect the proposed development. Ground Investigation should be undertaken to inform appropriate geotechnical design of foundations, slabs and access roads.
- The location of the former well confirmed and made safe if within the area of proposed development.

5 References

BGS. British Geological Survey Onshore GeoIndex. [online] Available at: <http://www.bgs.ac.uk/geoindex/> [Accessed 13th June 2023].

Building Research Establishment (2008): Guidance for the Safe Development of Housing on Land Affected by Contamination. R&D Publication 66.

British Standards Institution (2019): Soil quality — Conceptual site models for potentially contaminated sites. BS EN ISO 21365:2019.

Environment Agency (2020/2023): Land Contamination: Risk Management (LCRM 2020/2023).

Groundsure Insights Reports (2022): GSIP-2022-12757-10511 and GSIP-2022-12757-10512

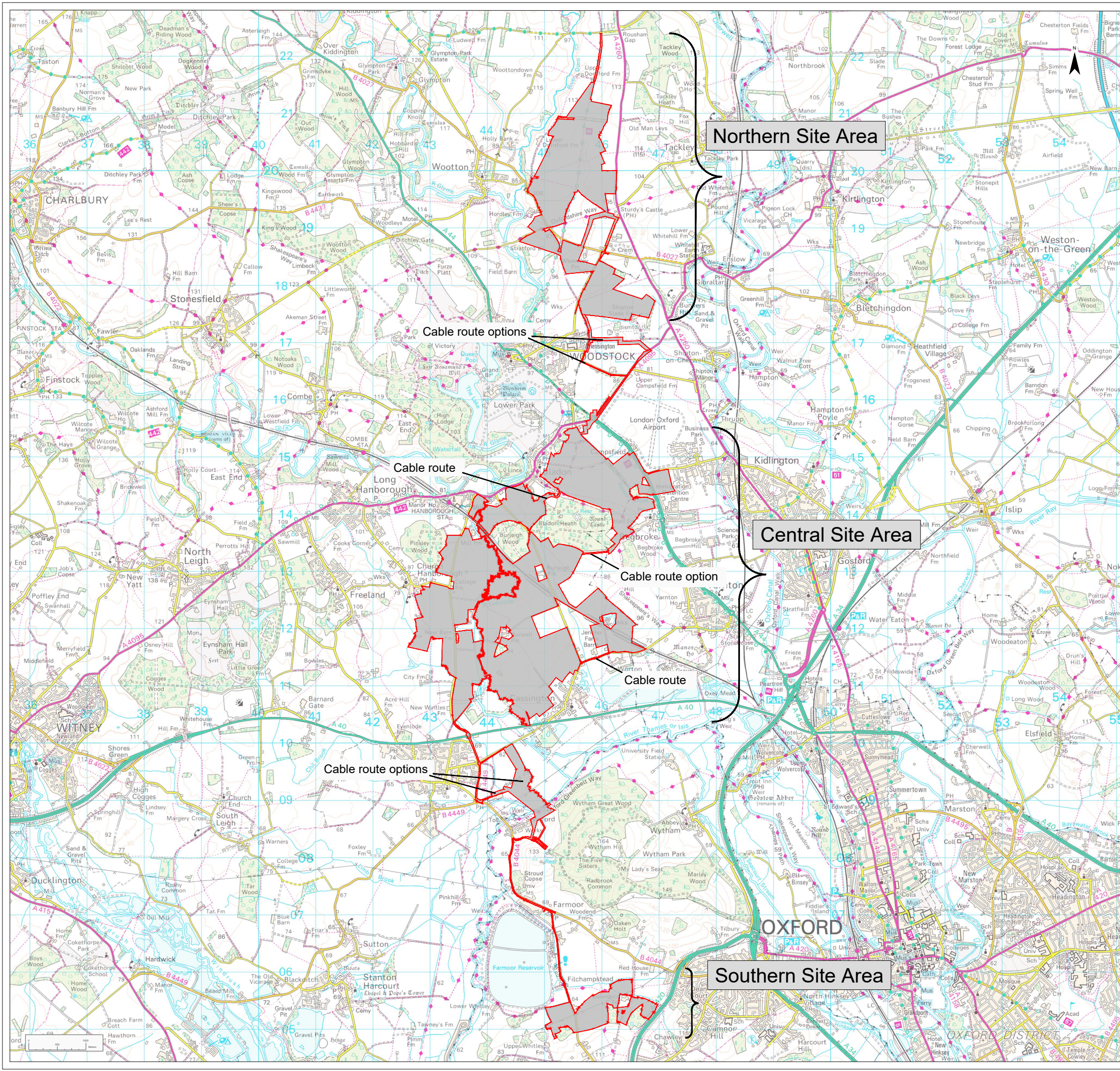
<https://magic.defra.gov.uk/>

[REDACTED]

RPS (2023): Botley West Solar Farm, EIA Scoping Report, Ground Conditions Ref 230403_R_JER9429_BOTLEY WEST SOLAR FARM_Scoping Report v1 r2

Drawings

Drawing 1: Site Location Plan



Legend

Site Location and Order Limits

Project		Status			
Botley West Solar Farm					
Id.	Changes	Date	Name	Date	Name
				25.04.2024	V. Guskova
				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
 Figure 1.1

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.
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Annex C Groundsure Insights Historical Map Reports

Site Details:

South - BM Solar

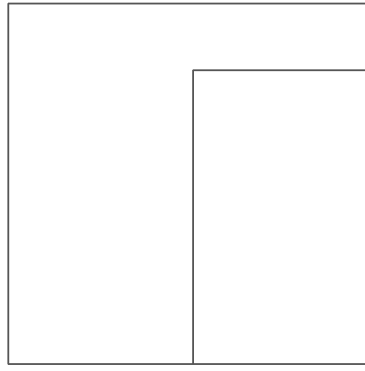
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Map Name: National Grid

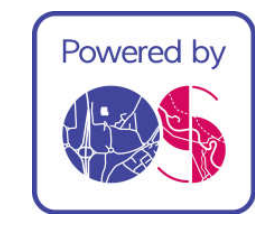
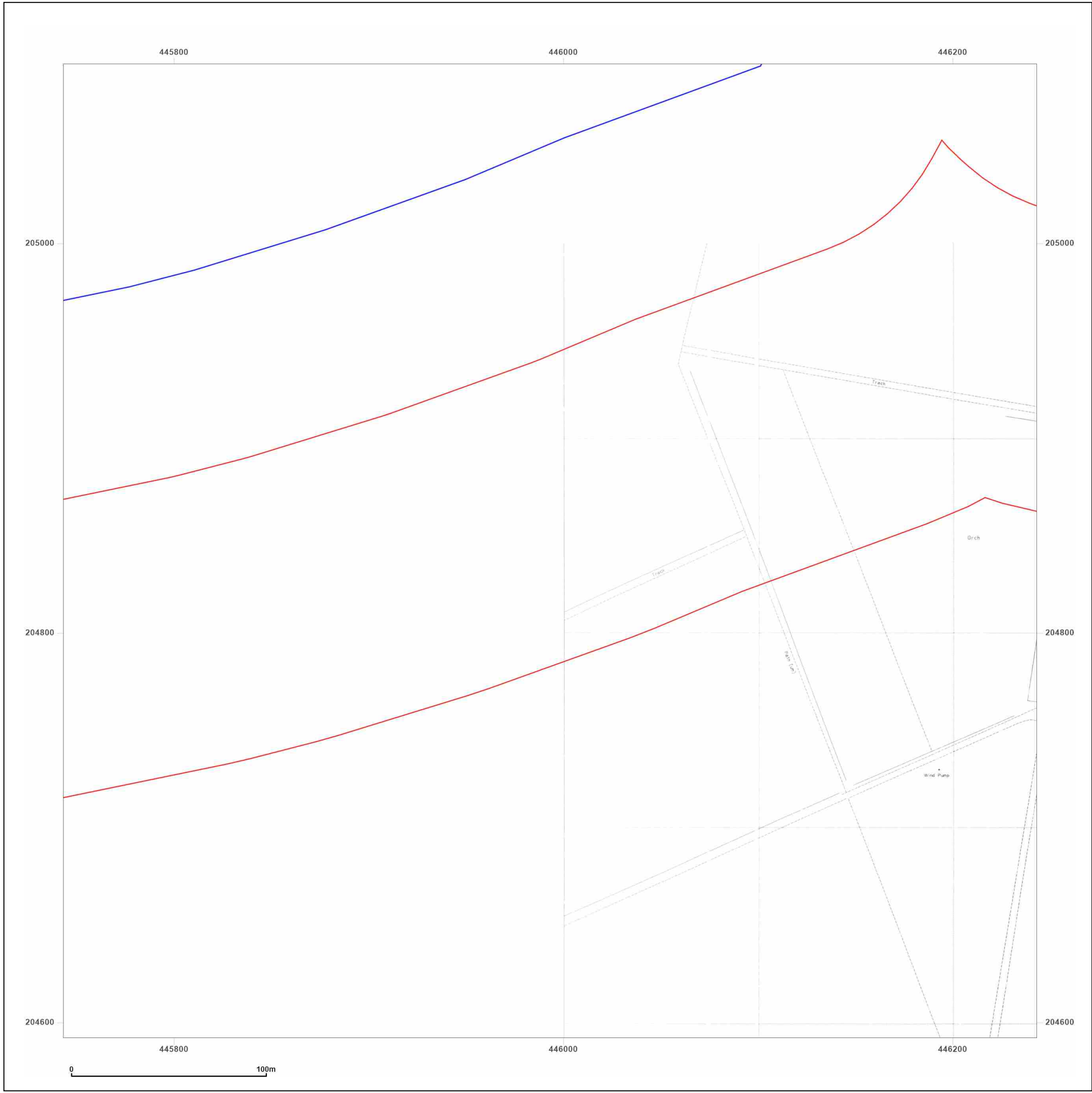
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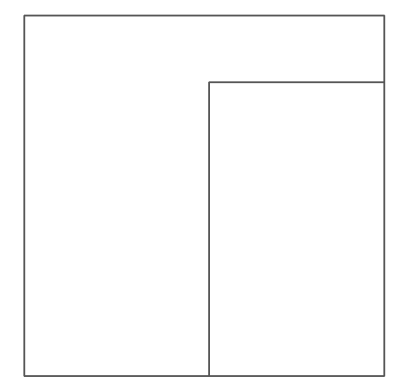
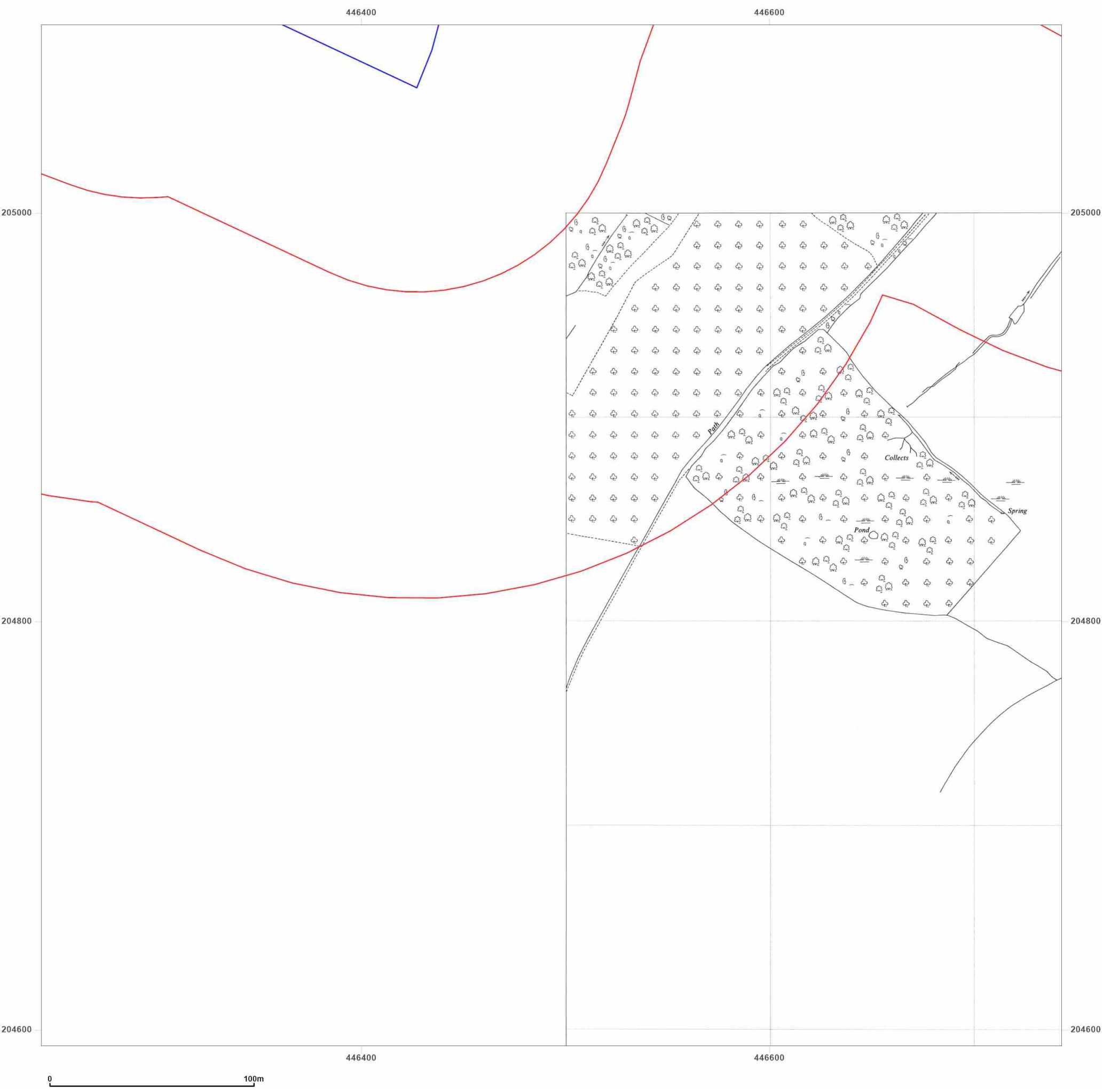
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Map Name: National Grid

Map date: 1965

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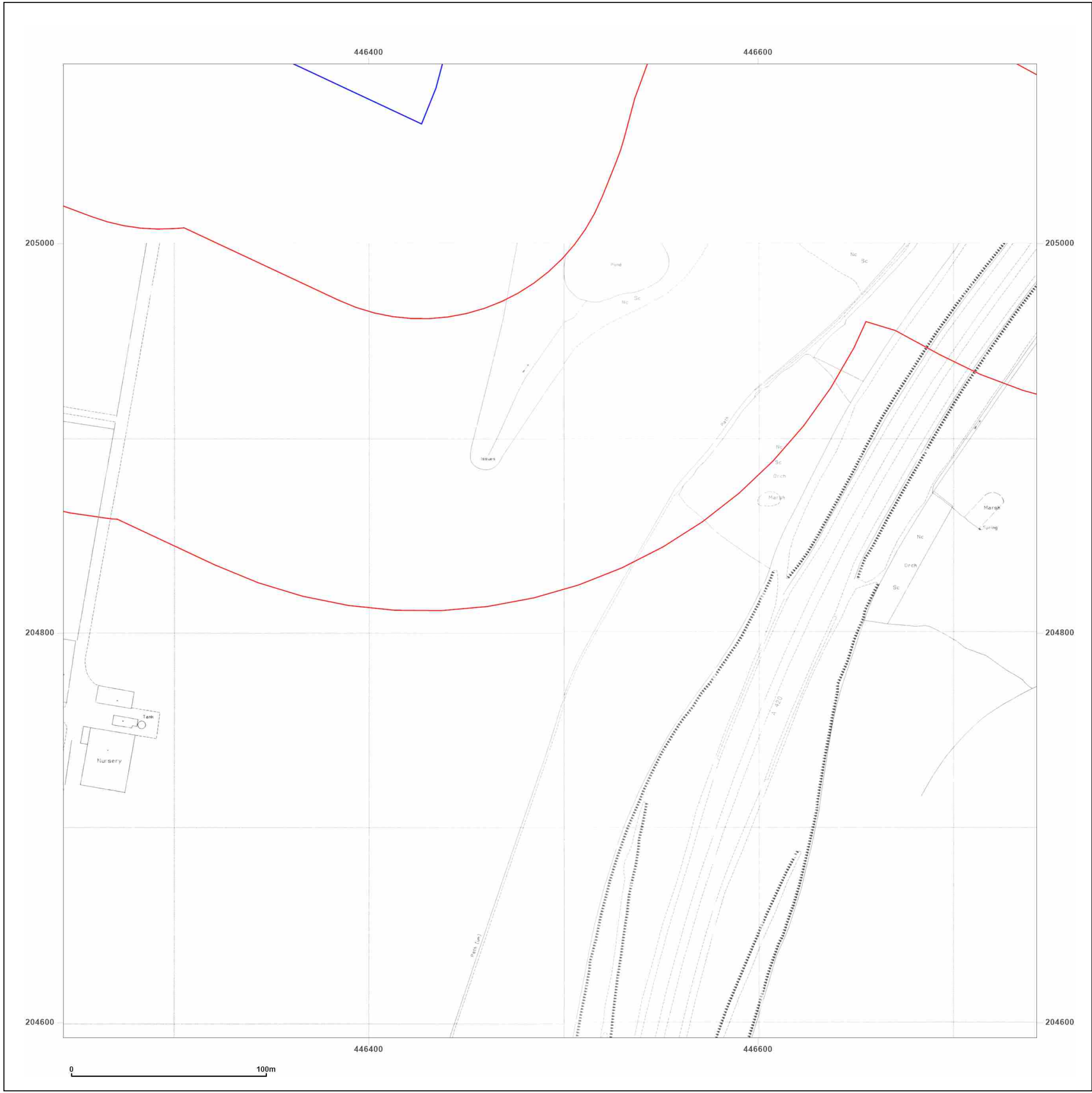


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Map Name: National Grid

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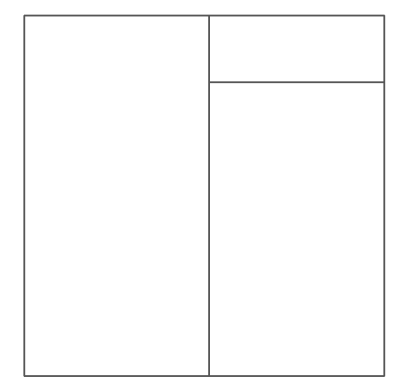
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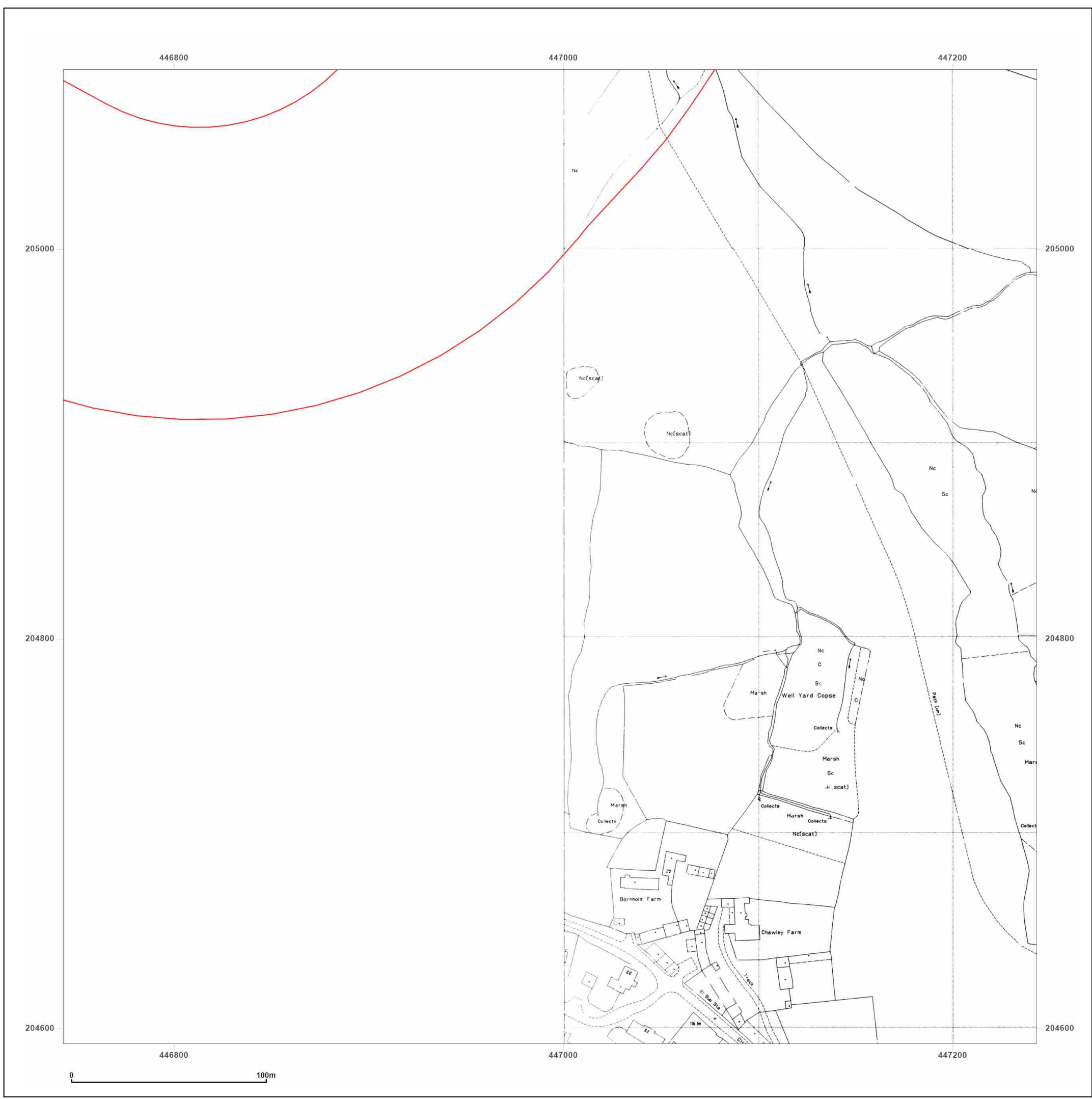


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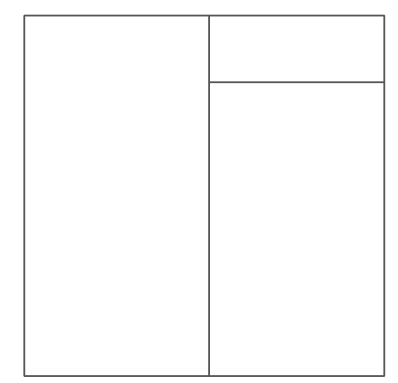
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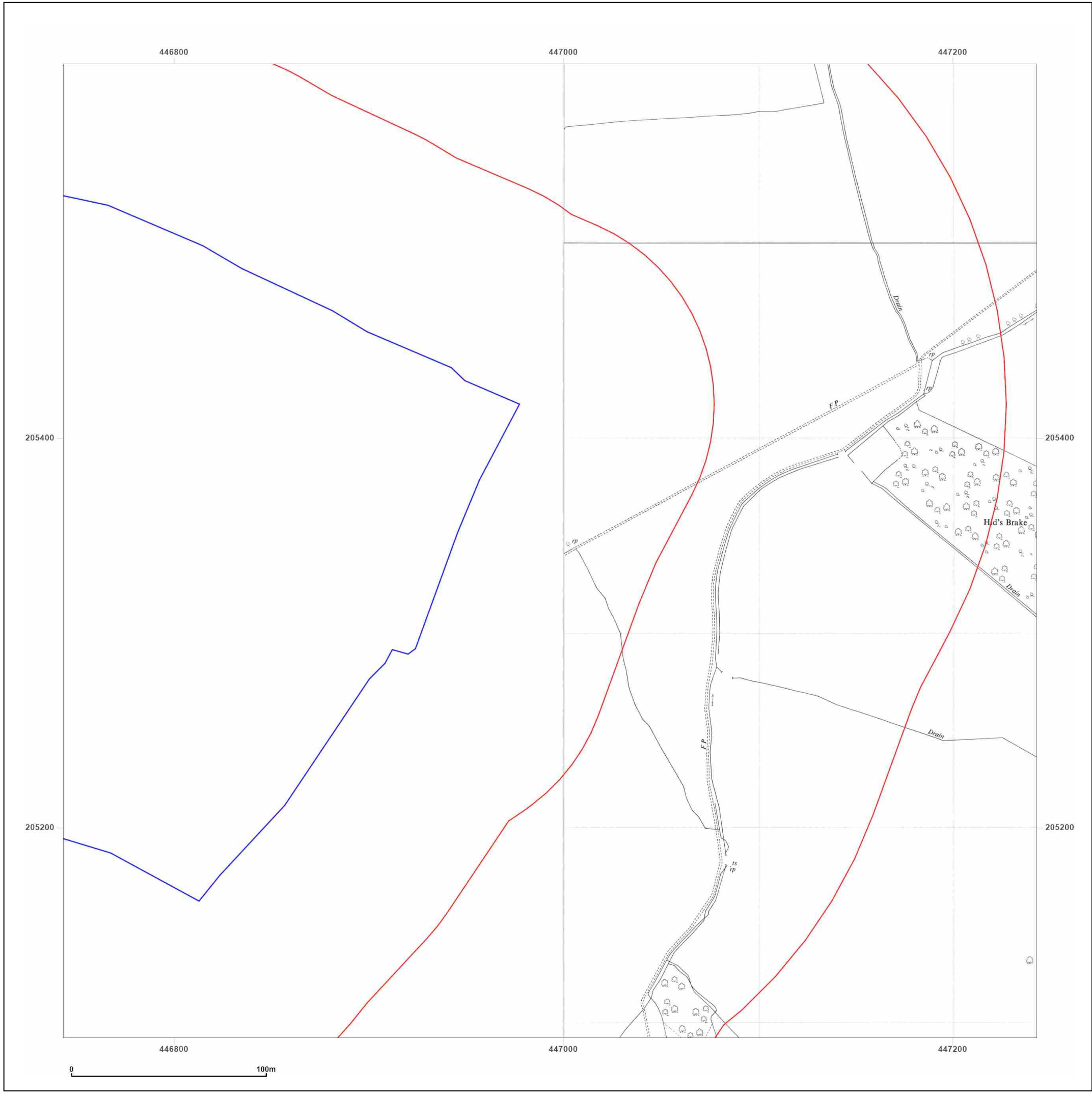


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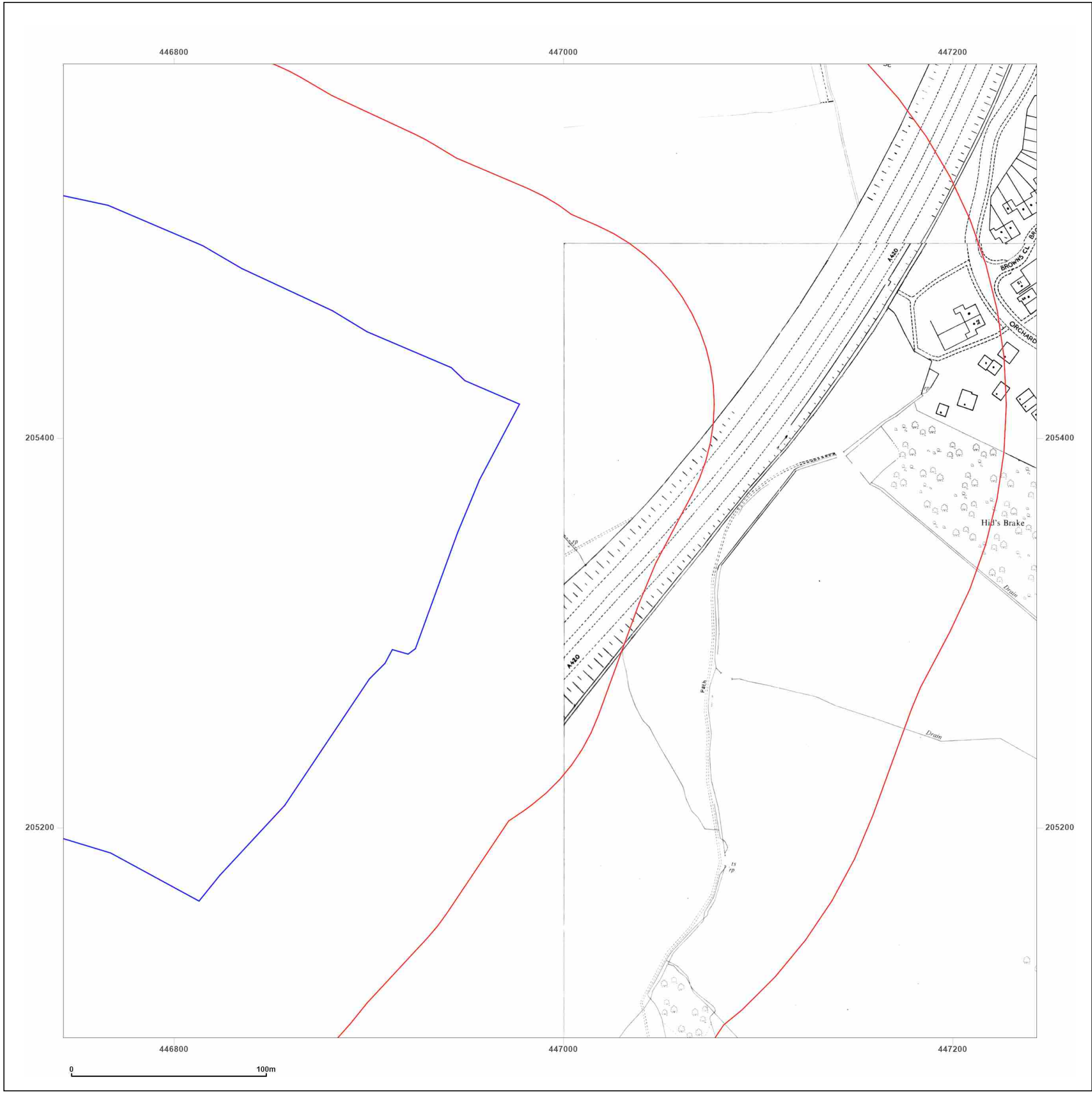


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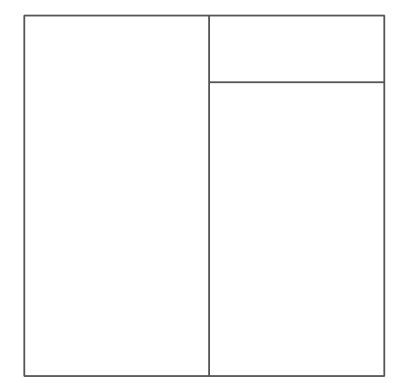
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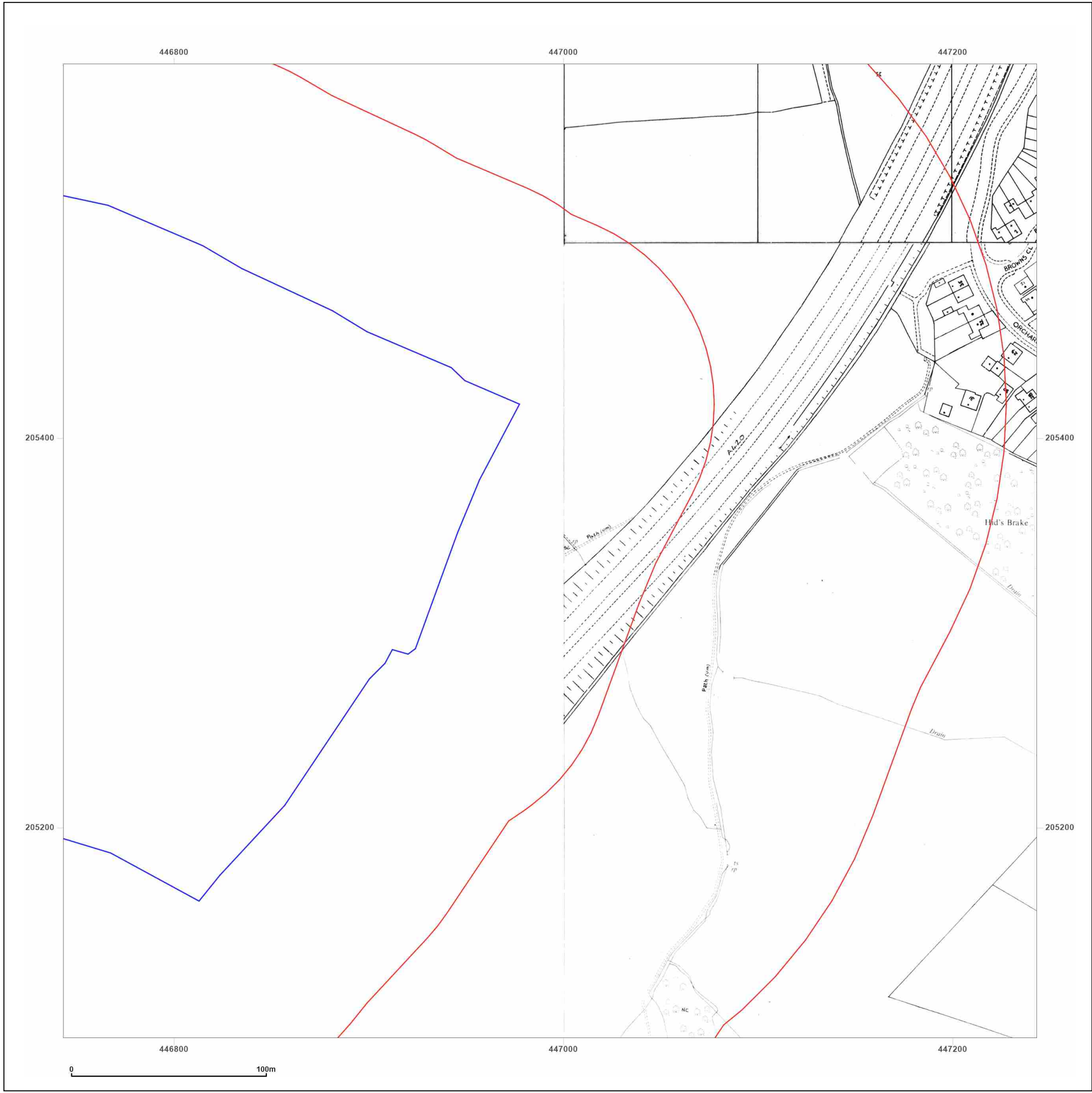


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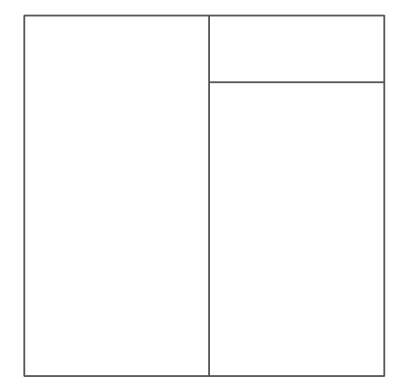
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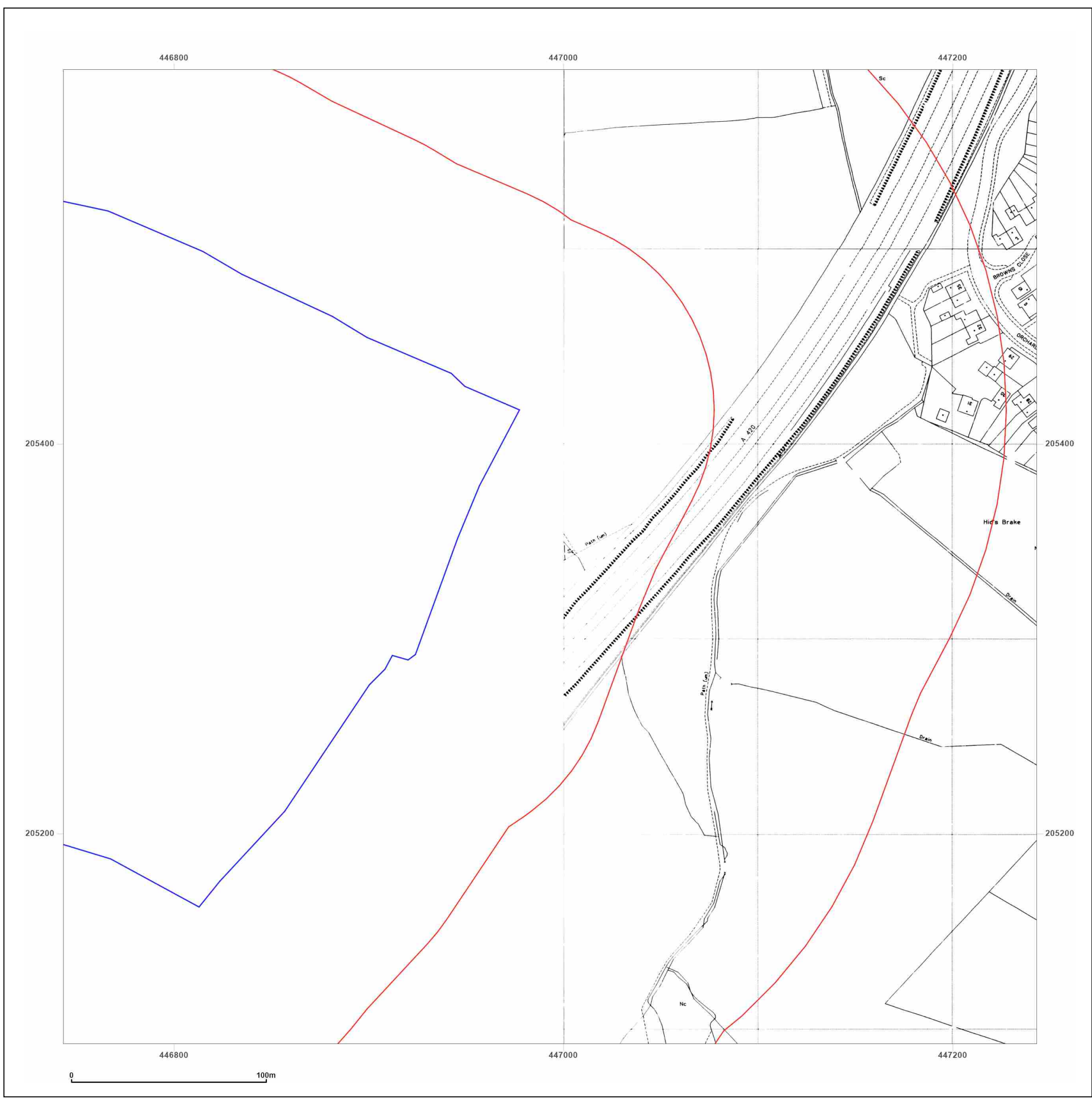


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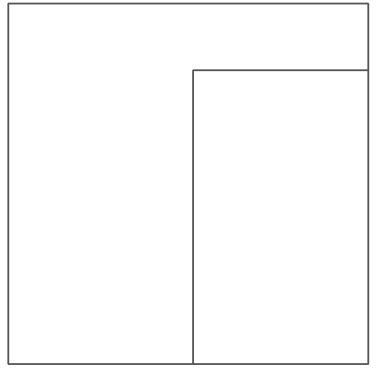
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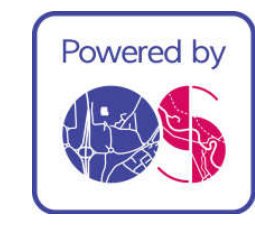
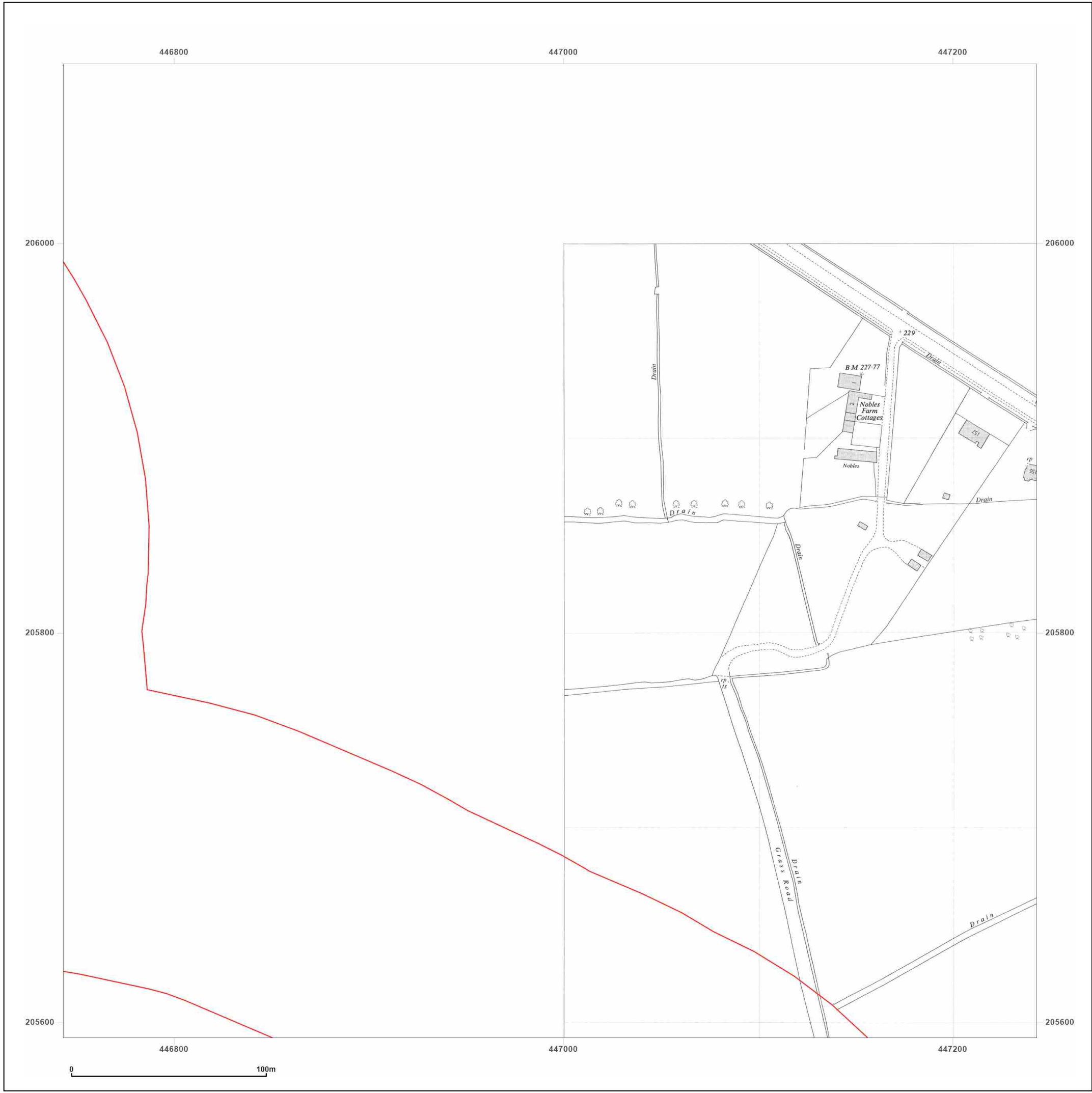
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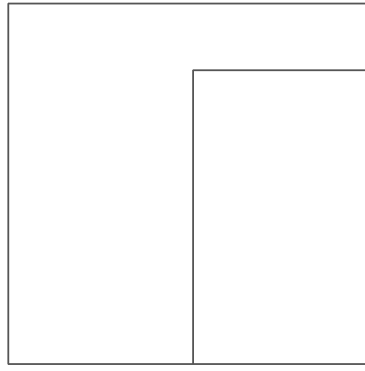
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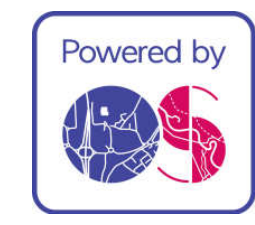
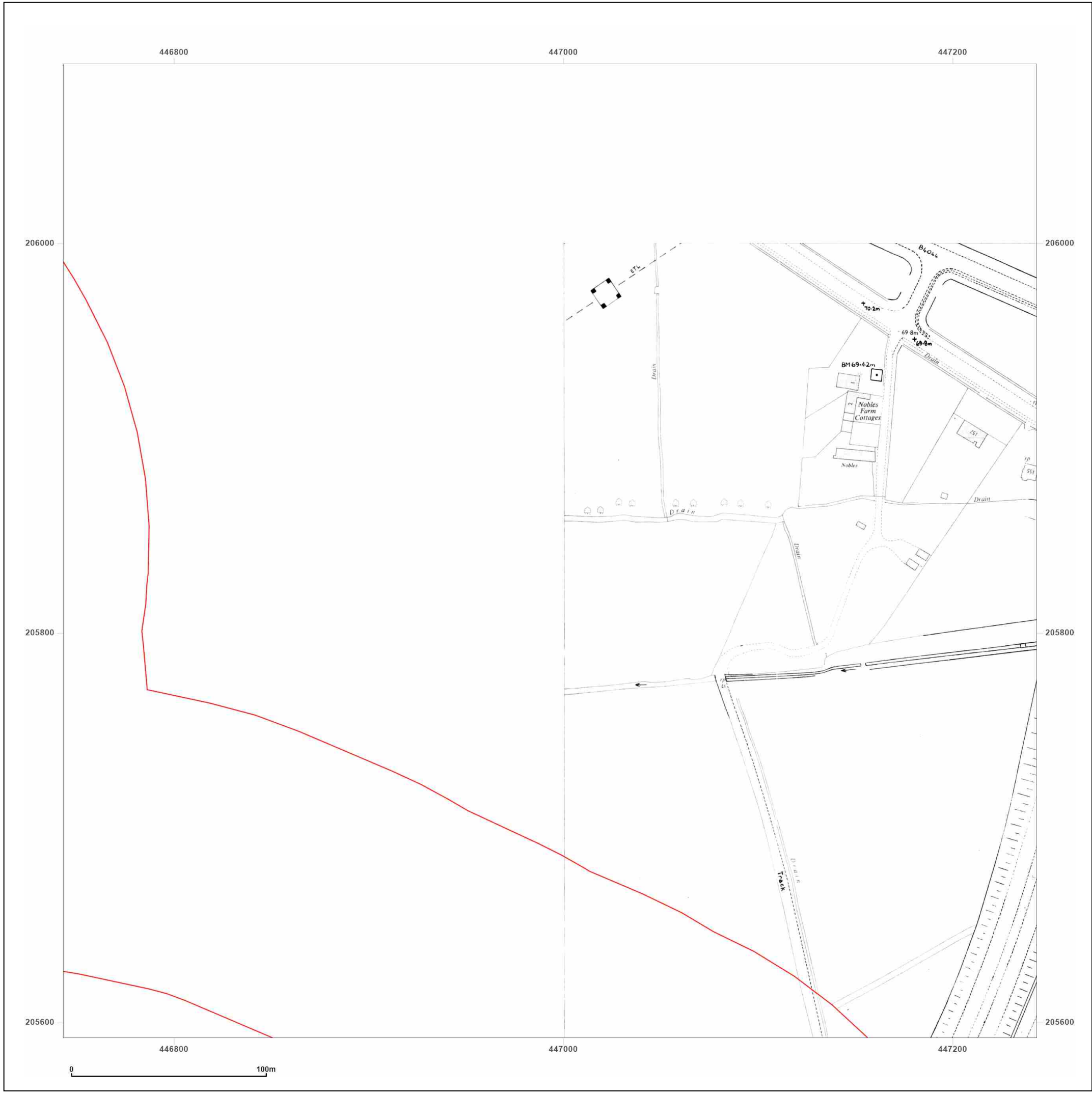
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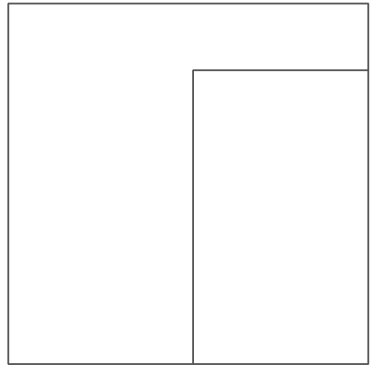
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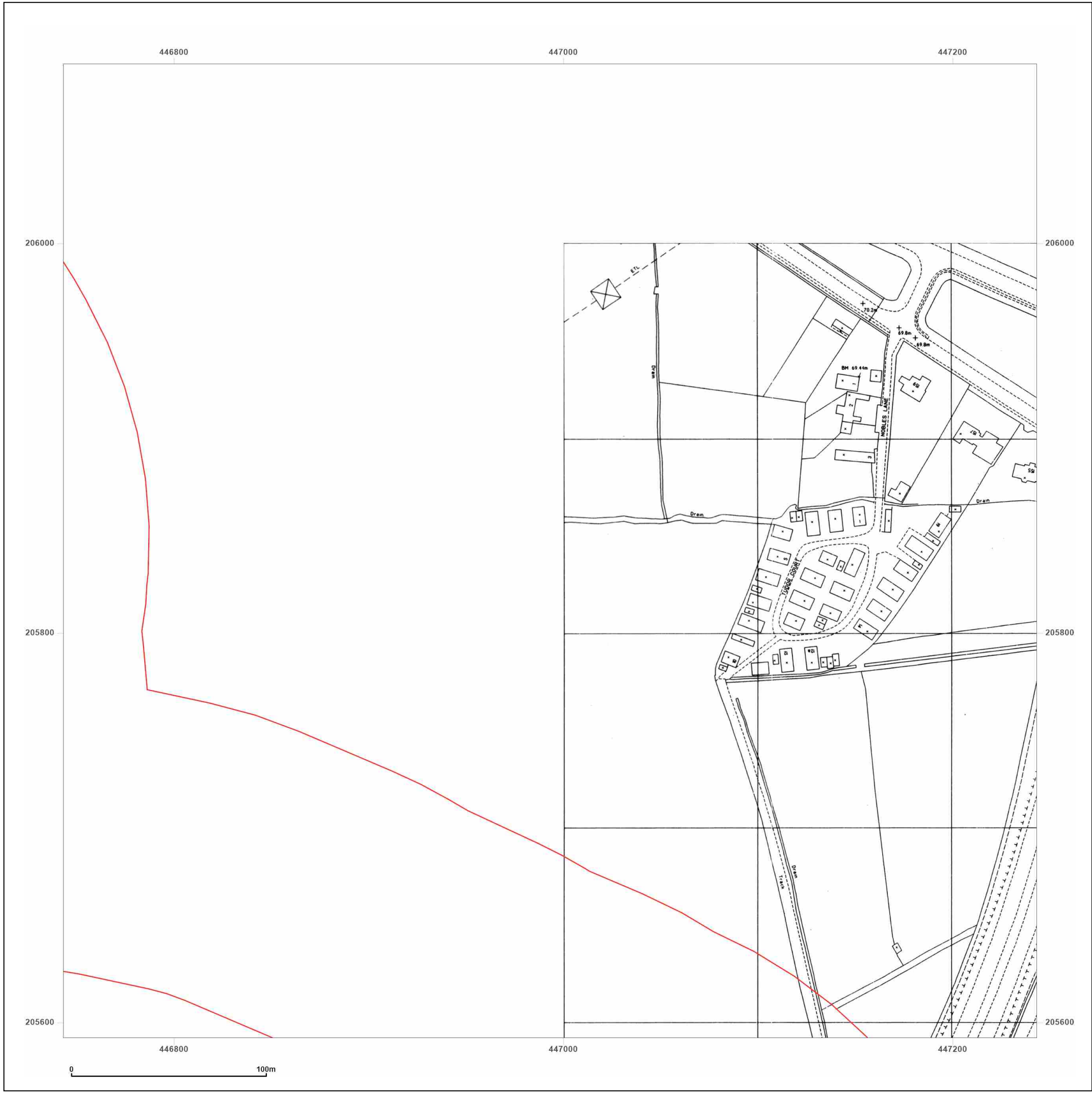


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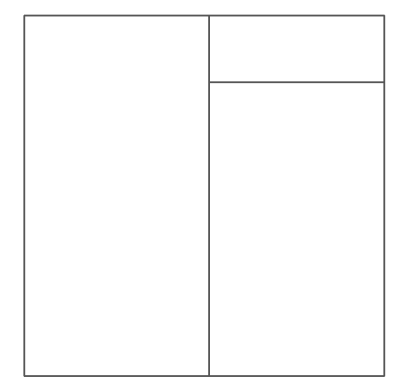
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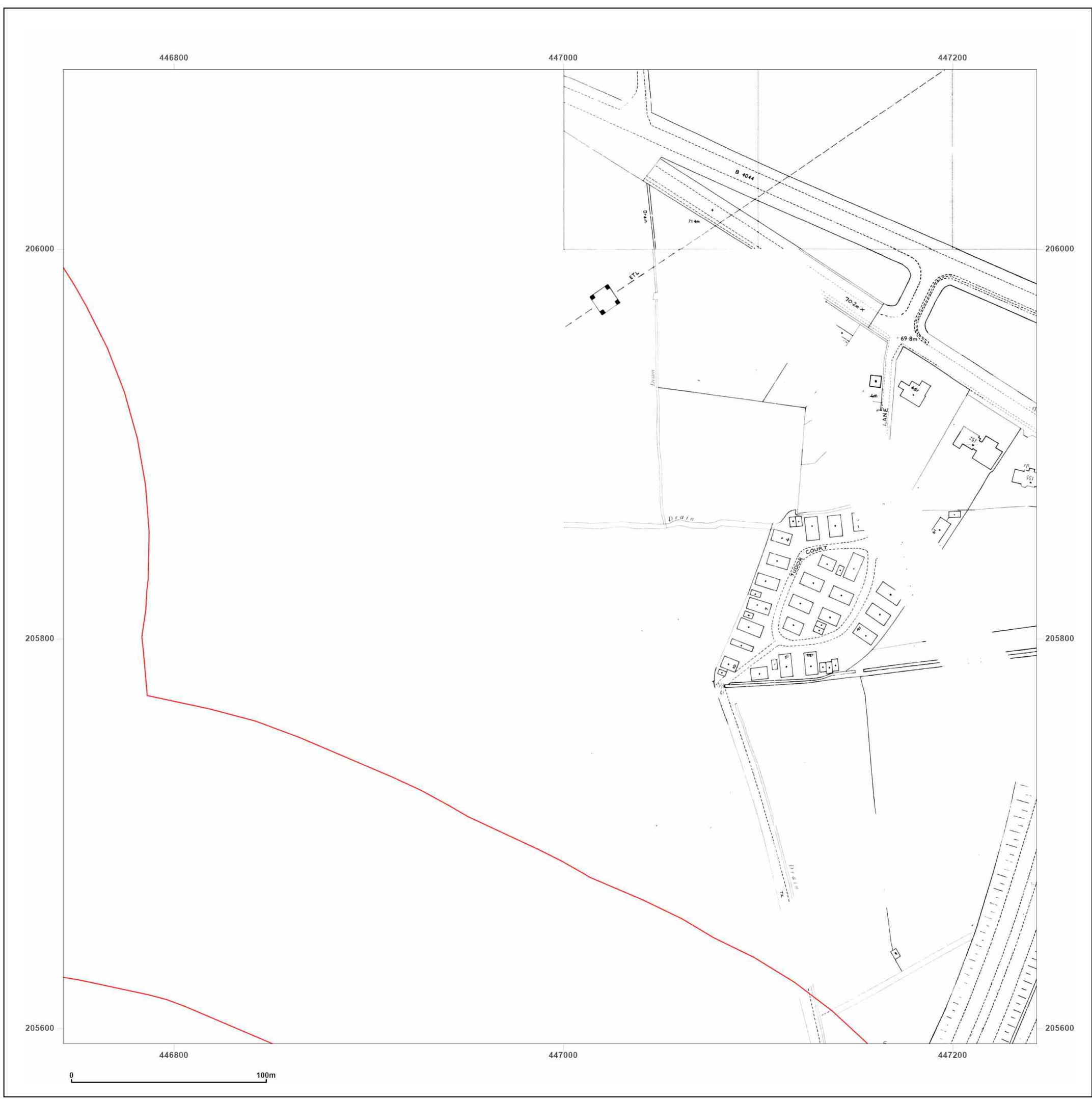


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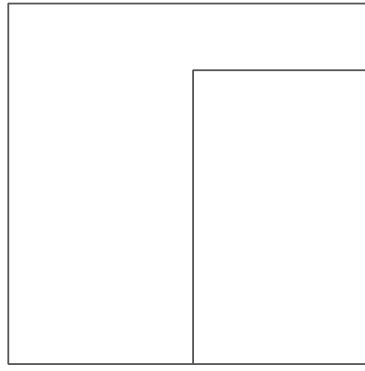
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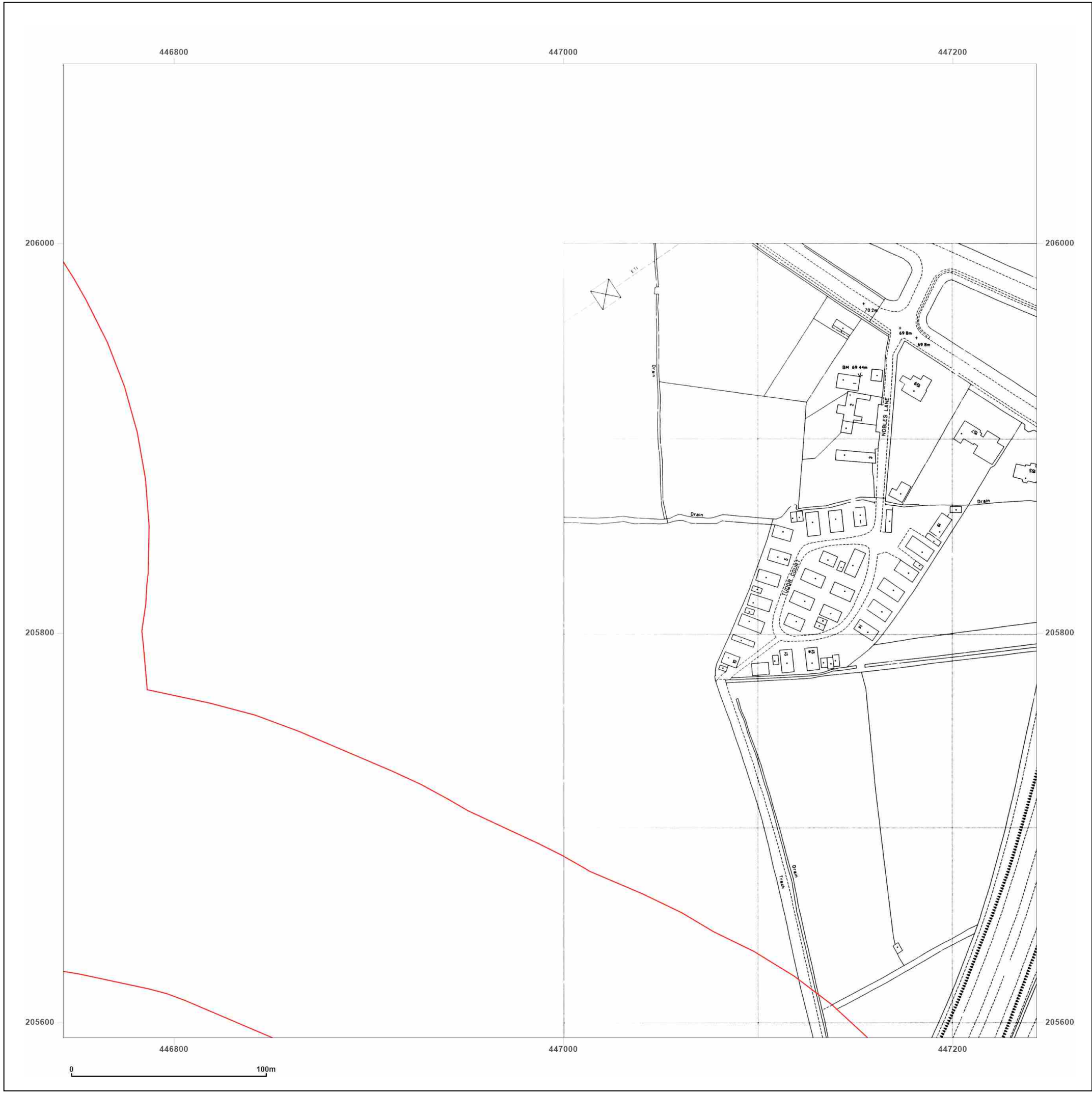


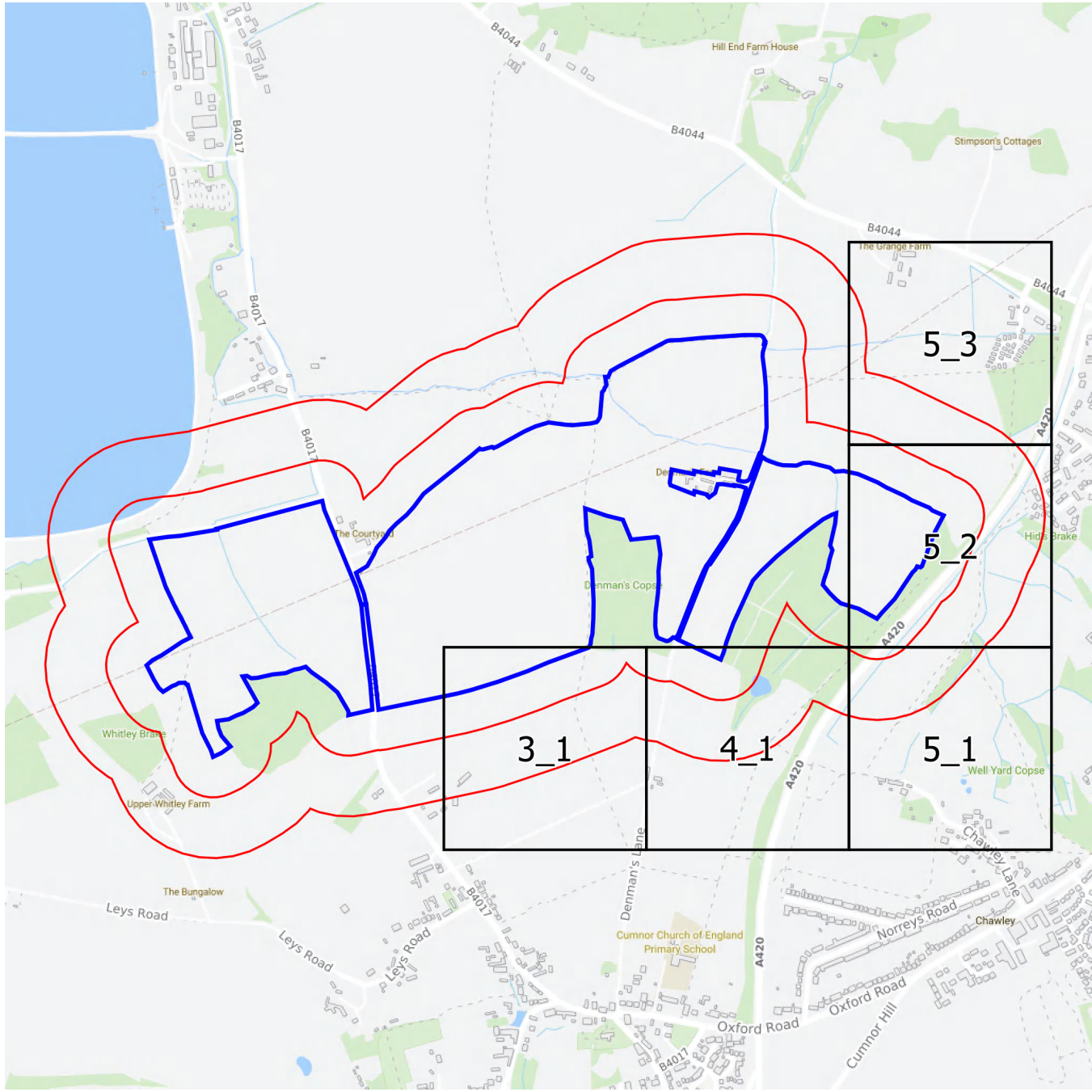
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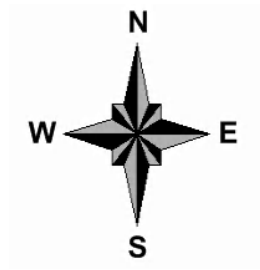


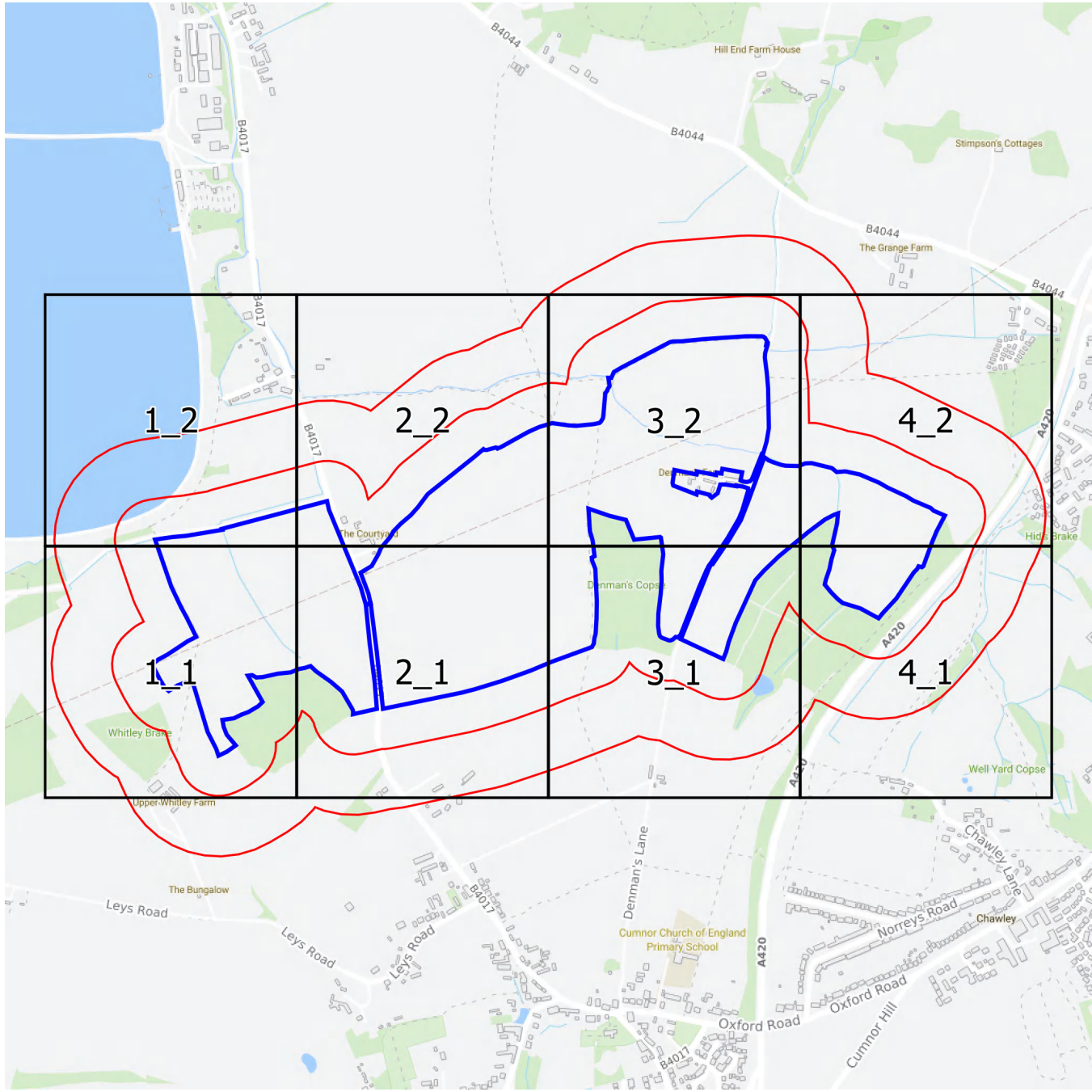


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INSIGHTS

1:1,250 Scale Grid Index

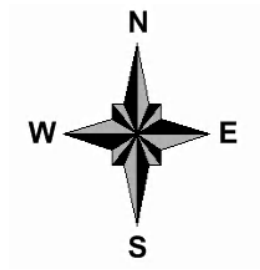




Groundsure

INSIGHTS

1:2,500 Scale Grid Index



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_1_1
Grid Ref: 445055, 205029

Map Name: County Series

Map date: 1876

Scale: 1:2,500

Printed at: 1:2,500



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

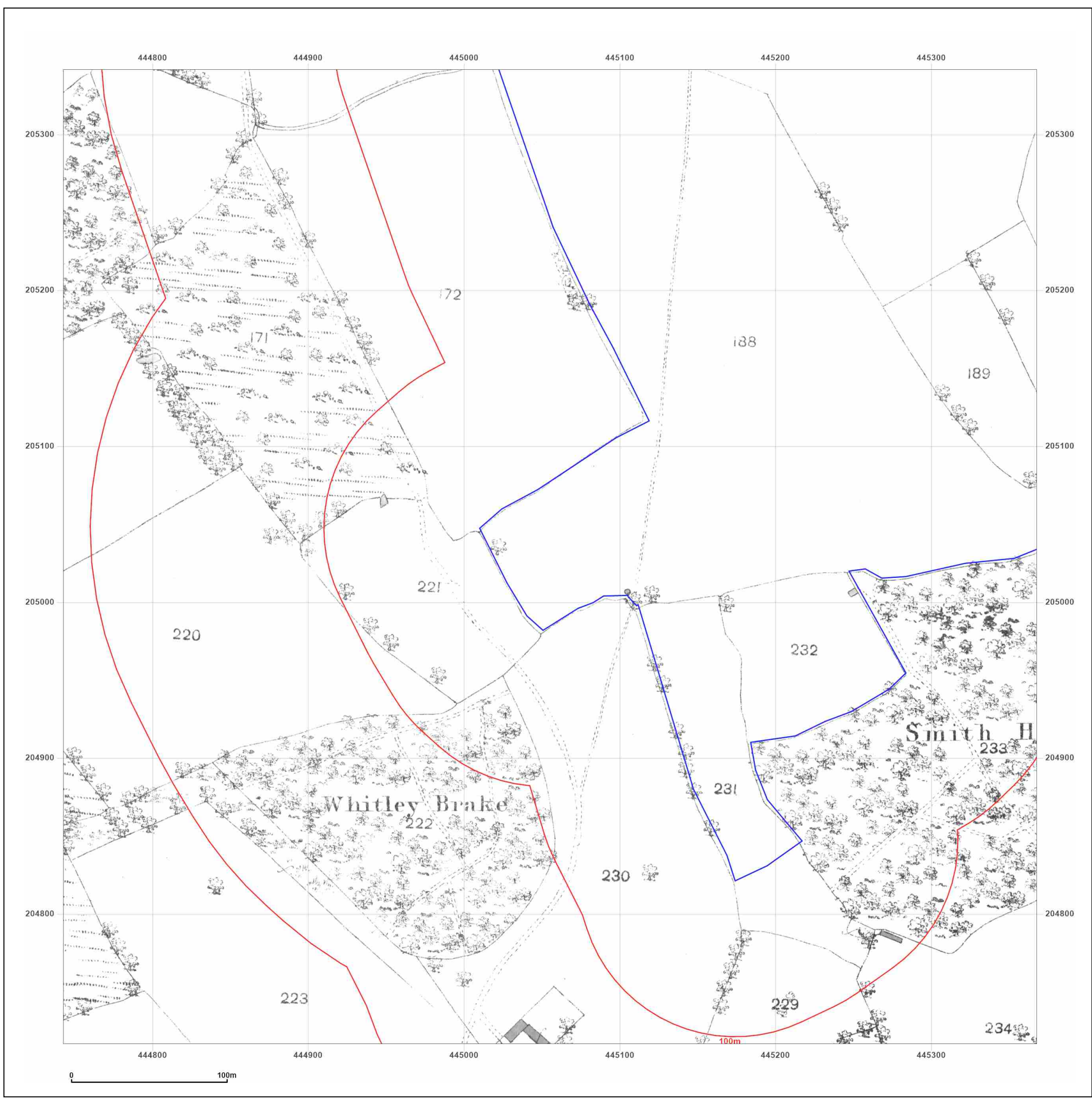


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_1_1
Grid Ref: 445055, 205029

Map Name: County Series

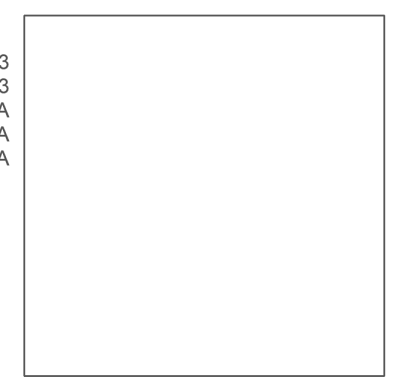
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Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1913
 Revised 1913
 Edition N/A
 Copyright N/A
 Levelled N/A

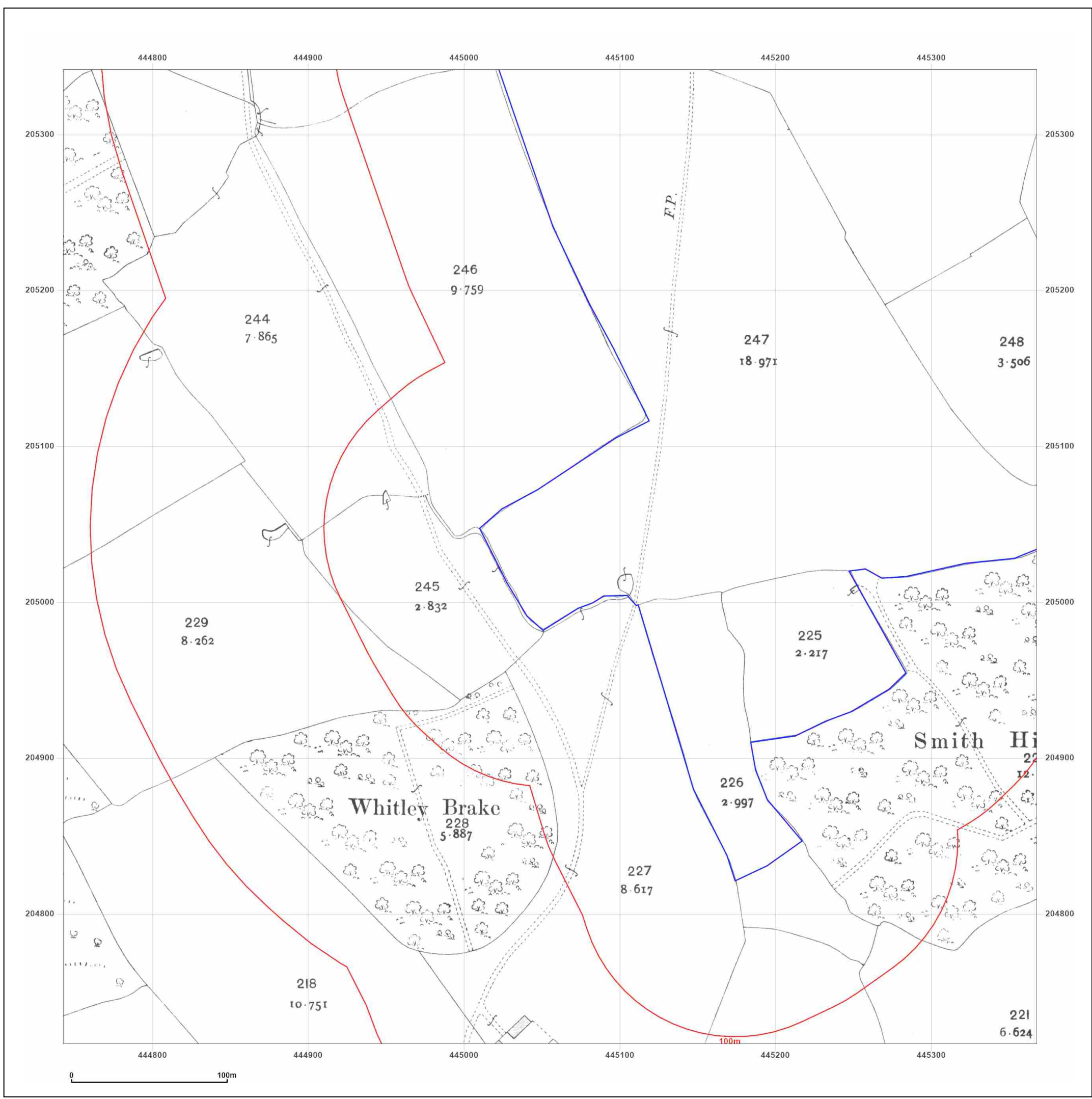


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Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_1_1
Grid Ref: 445055, 205029

Map Name: National Grid

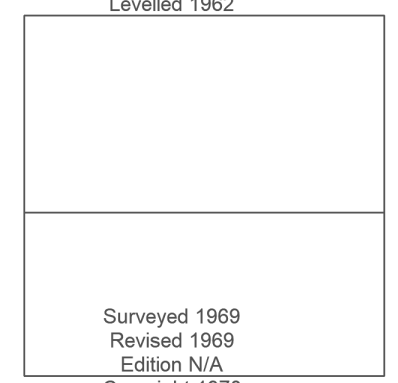
Map date: 1970

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1969
 Revised 1969
 Edition N/A
 Copyright 1970
 Levelled 1962



Surveyed 1969
 Revised 1969
 Edition N/A
 Copyright 1970
 Levelled 1962

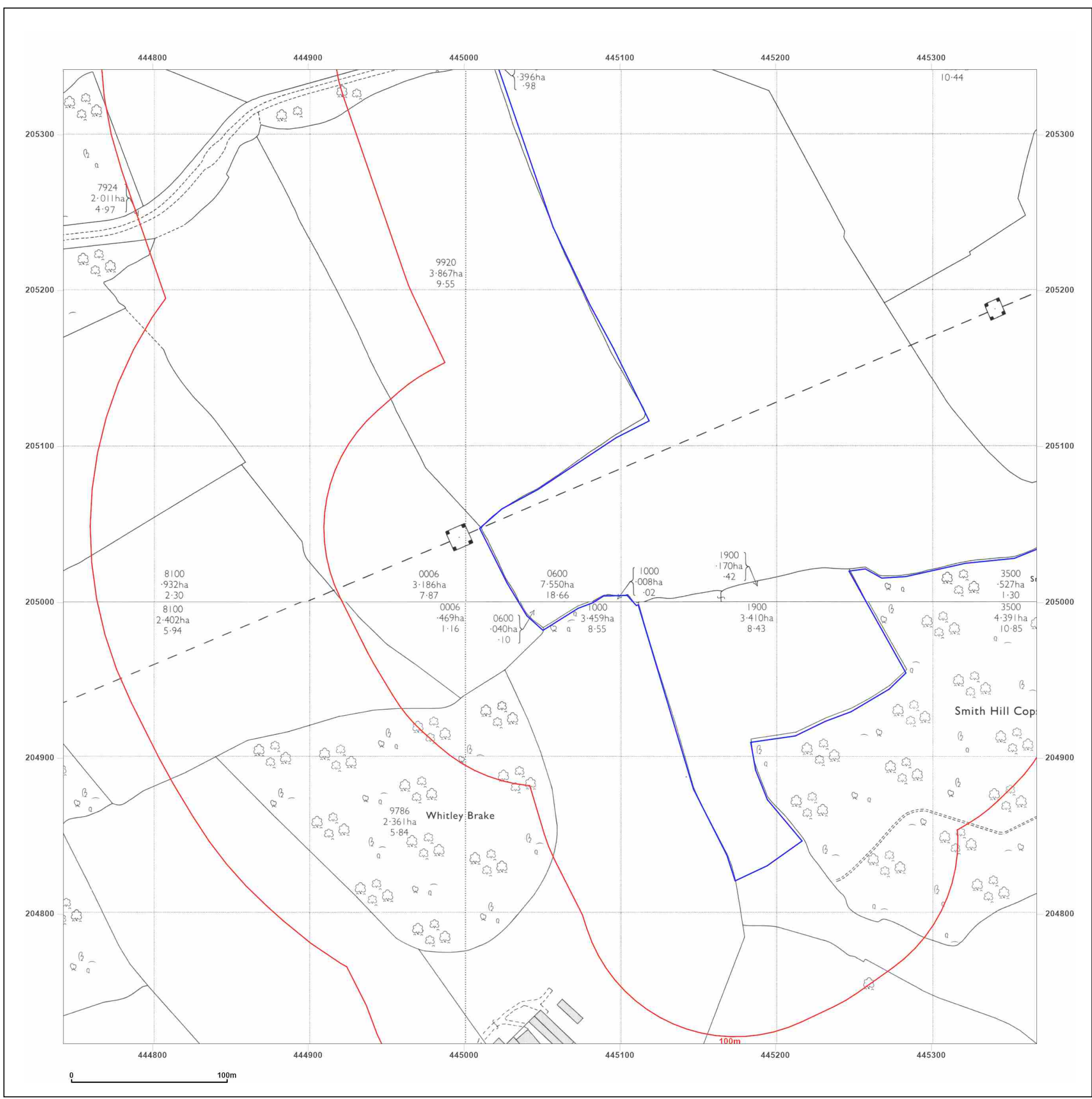


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Site Details:

South - BM Solar

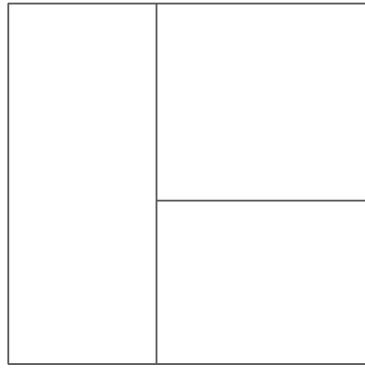
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Report Ref: GSIP-2022-12757-10511_LS_1_1
Grid Ref: 445055, 205029

Map Name: National Grid

Map date: 1970

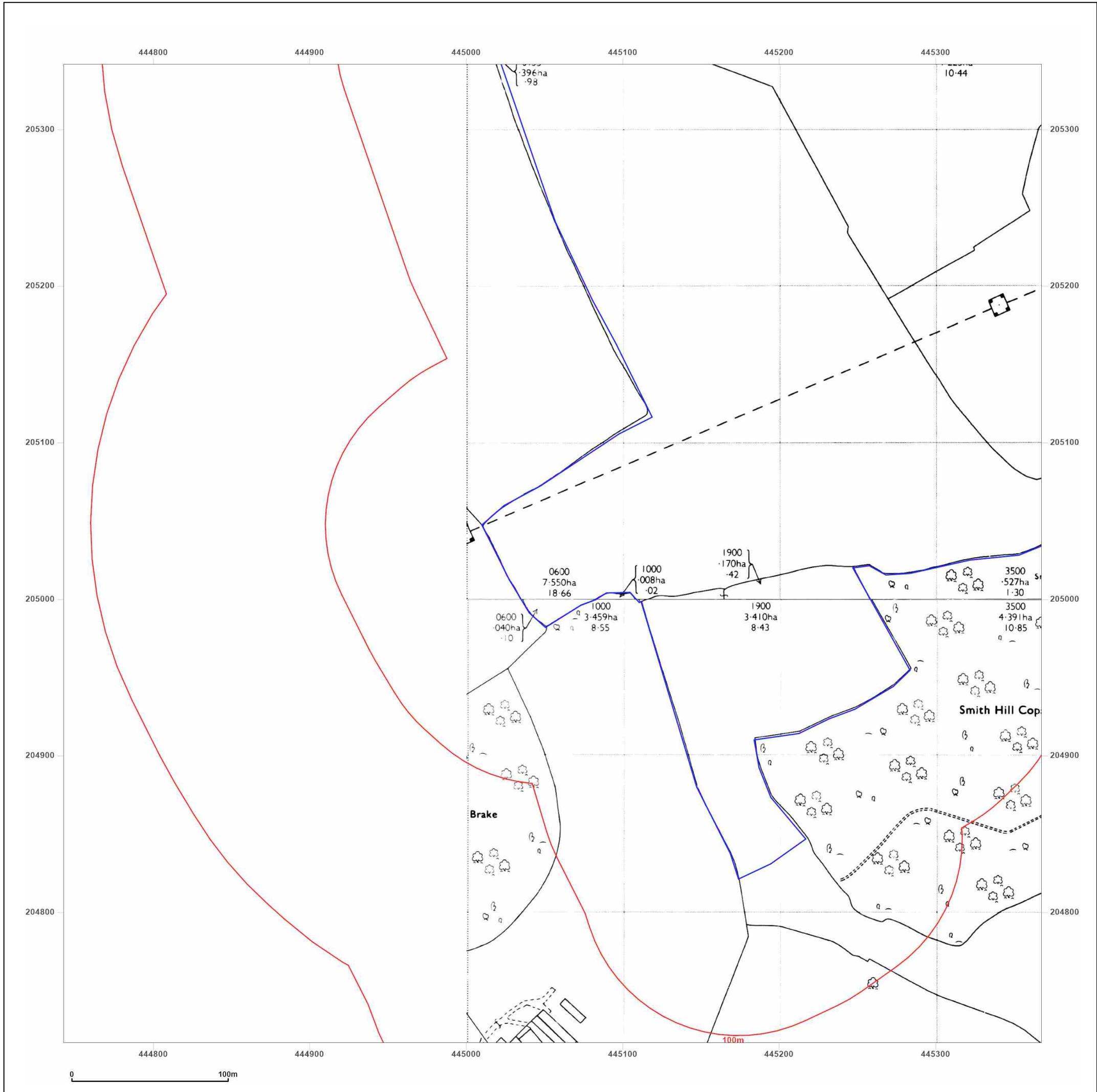
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 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A

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



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Map legend available at: 

Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_1_1
Grid Ref: 445055, 205029

Map Name: National Grid

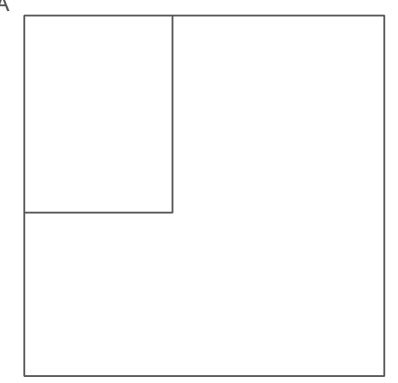
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 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A

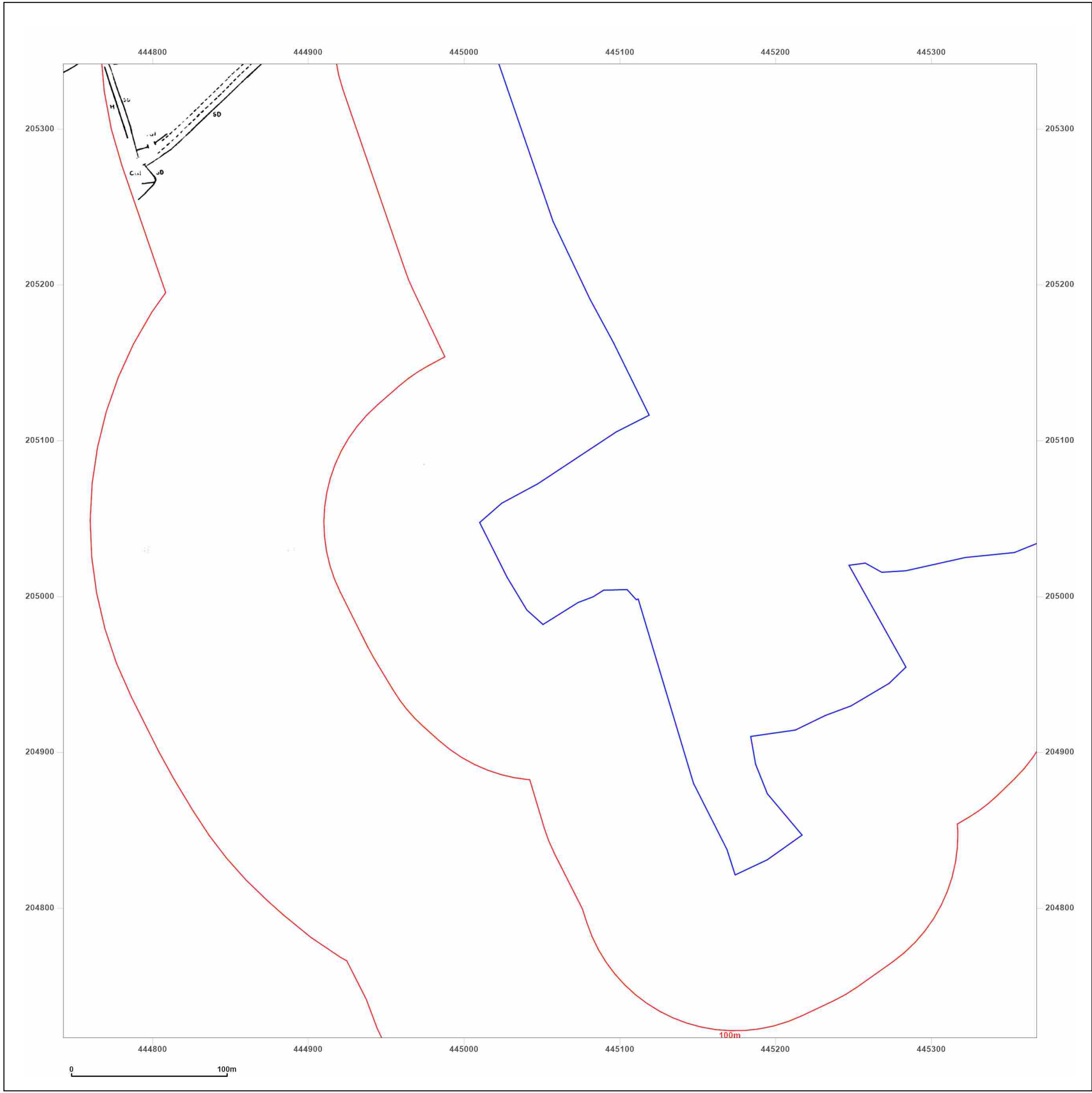


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Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_1_1
Grid Ref: 445055, 205029

Map Name: National Grid

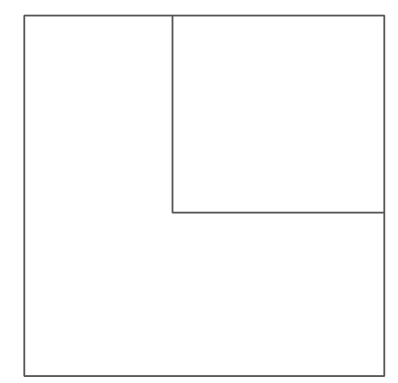
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Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1962
 Revised 1986
 Edition N/A
 Copyright 1986
 Levelled 1962

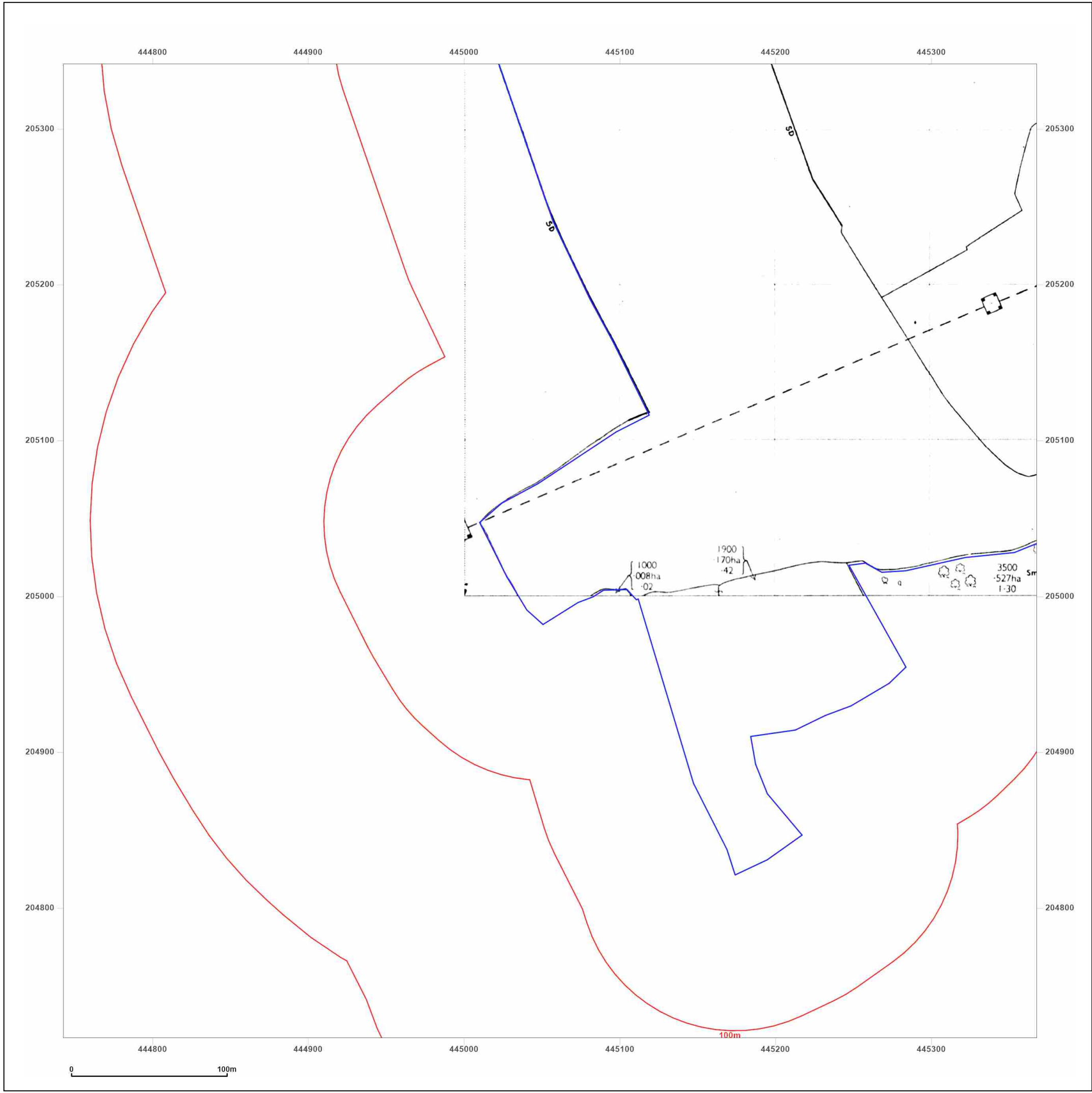


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Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_1_1
Grid Ref: 445055, 205029

Map Name: National Grid

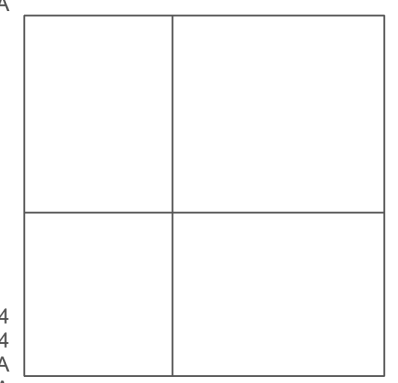
Map date: 1992-1994

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1994 Revised 1994 Edition N/A Copyright N/A Levelled N/A	Surveyed 1962 Revised 1992 Edition N/A Copyright 1992 Levelled 1962
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Surveyed 1994 Revised 1994 Edition N/A Copyright N/A Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright 1994 Levelled N/A
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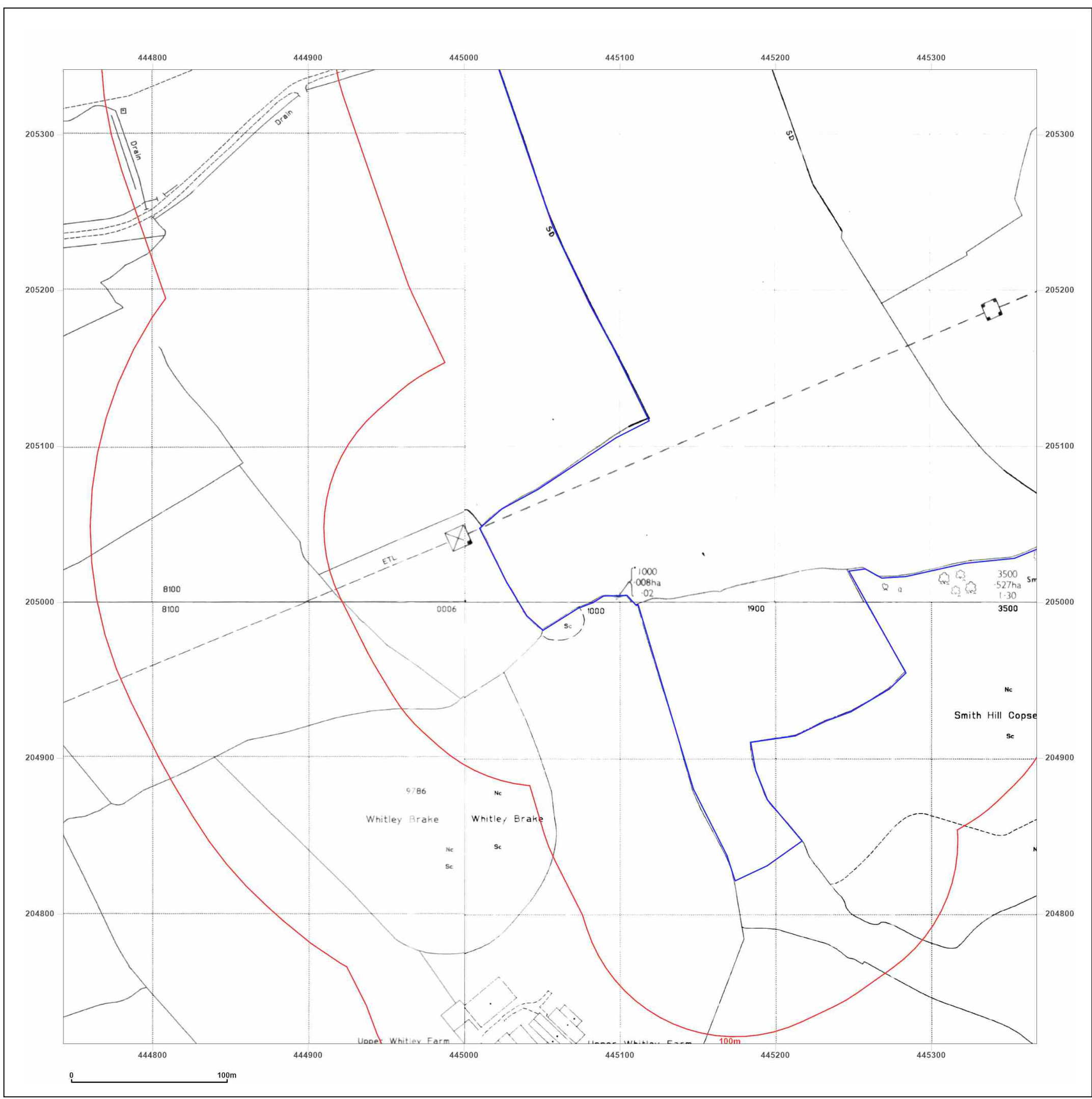


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Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_1_1
Grid Ref: 445055, 205029

Map Name: National Grid

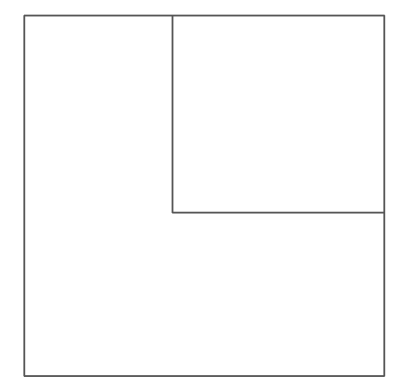
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Surveyed 1994
 Revised 1994
 Edition N/A
 Copyright N/A
 Levelled N/A

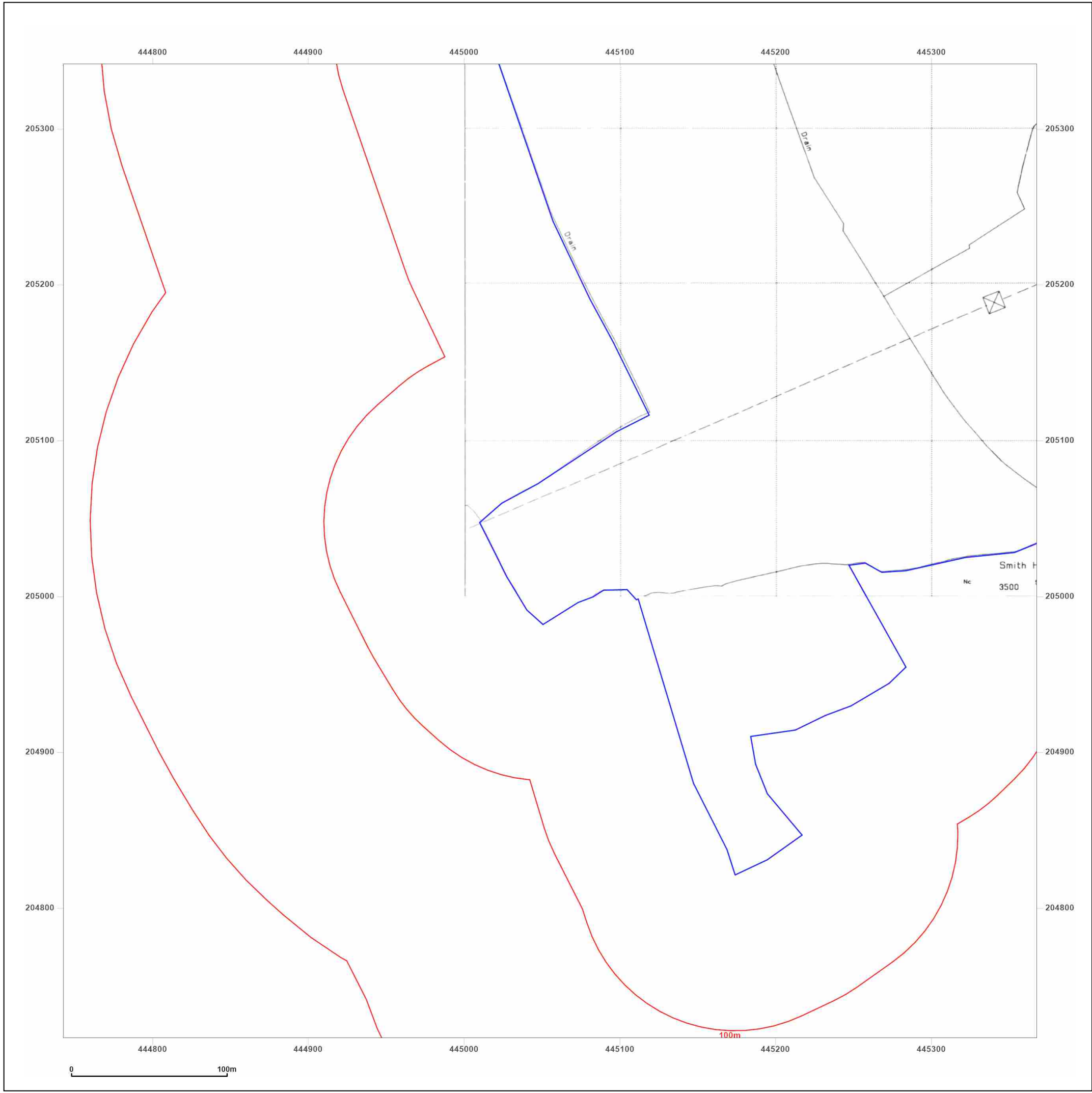


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Production date: 24 May 2022

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Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_1_2
Grid Ref: 445055, 205654

Map Name: County Series

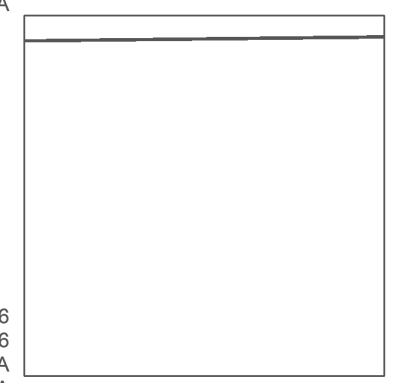
Map date: 1876

Scale: 1:2,500

Printed at: 1:2,500



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



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

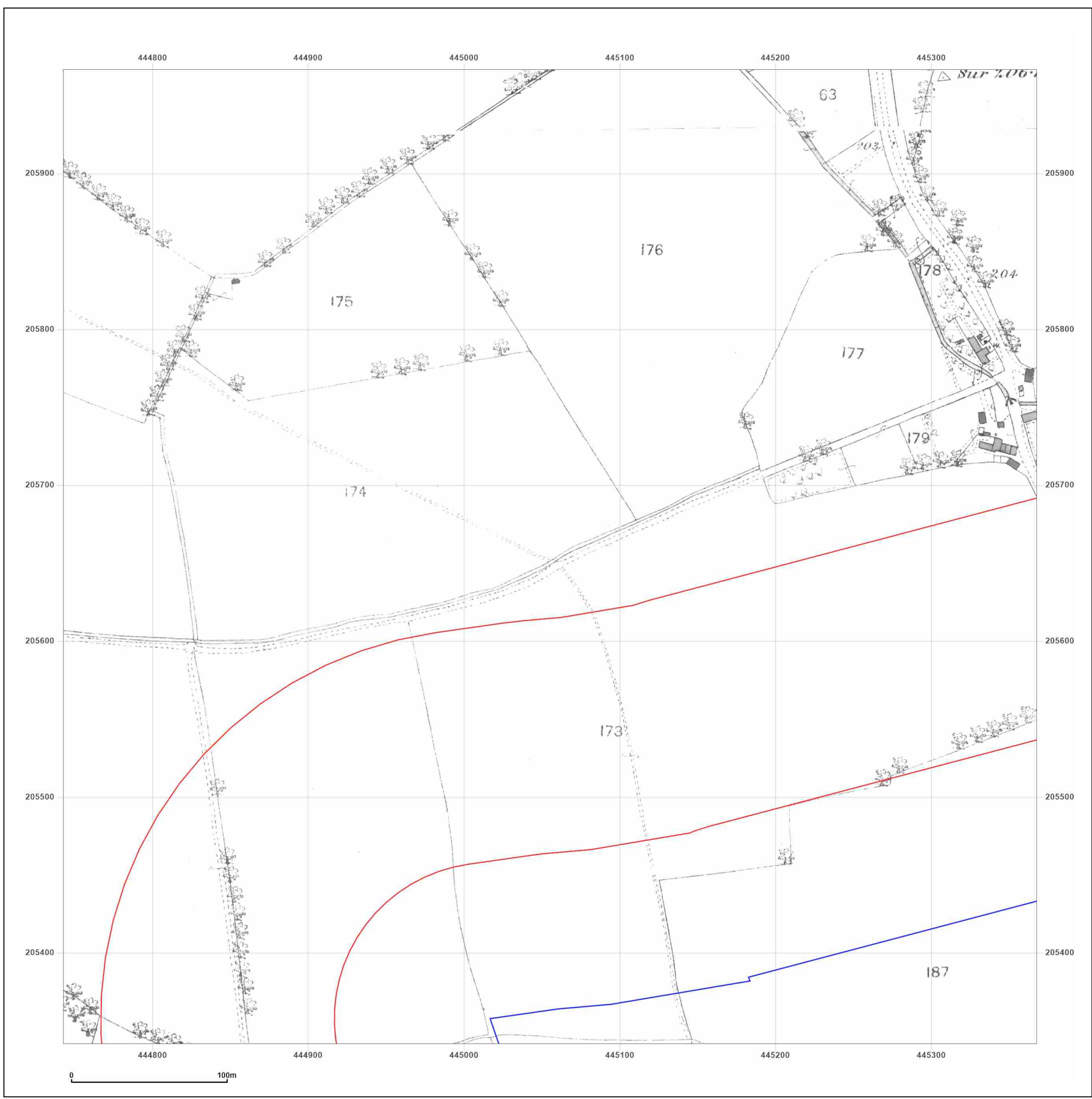


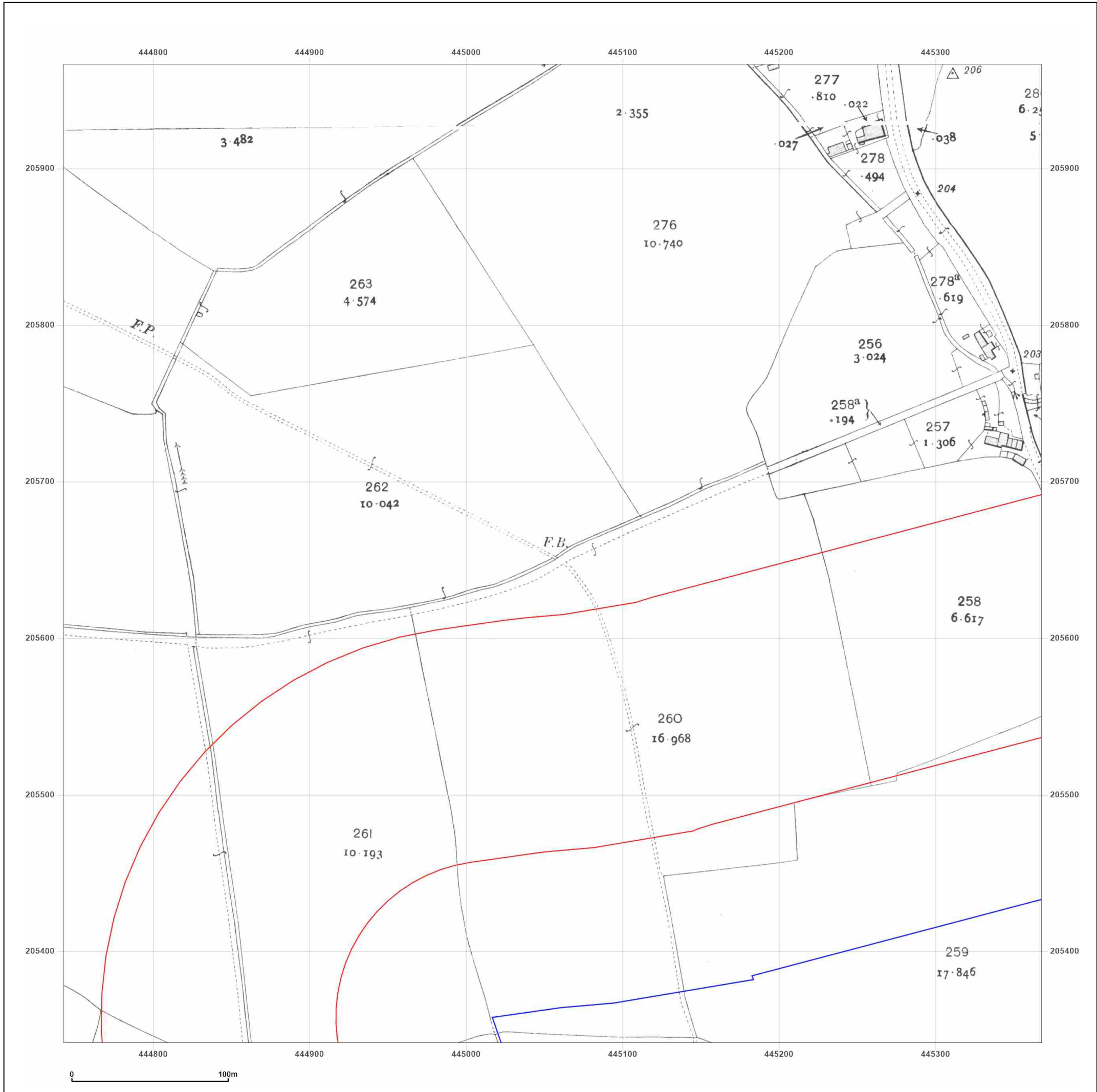
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Production date: 24 May 2022

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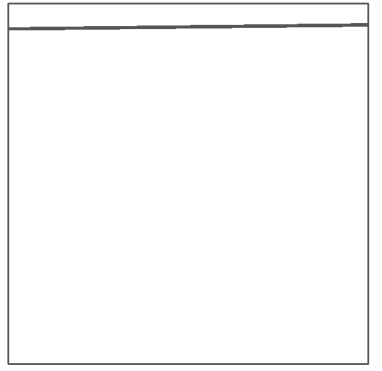
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 South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_1_2
Grid Ref: 445055, 205654

Map Name: County Series
Map date: 1913
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1913
 Revised 1913
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed 1913
 Revised 1913
 Edition N/A
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Production date: 24 May 2022

Map legend available at: 

Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_1_2
Grid Ref: 445055, 205654

Map Name: National Grid

Map date: 1970

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1969
 Revised 1969
 Edition N/A
 Copyright 1970
 Levelled 1962

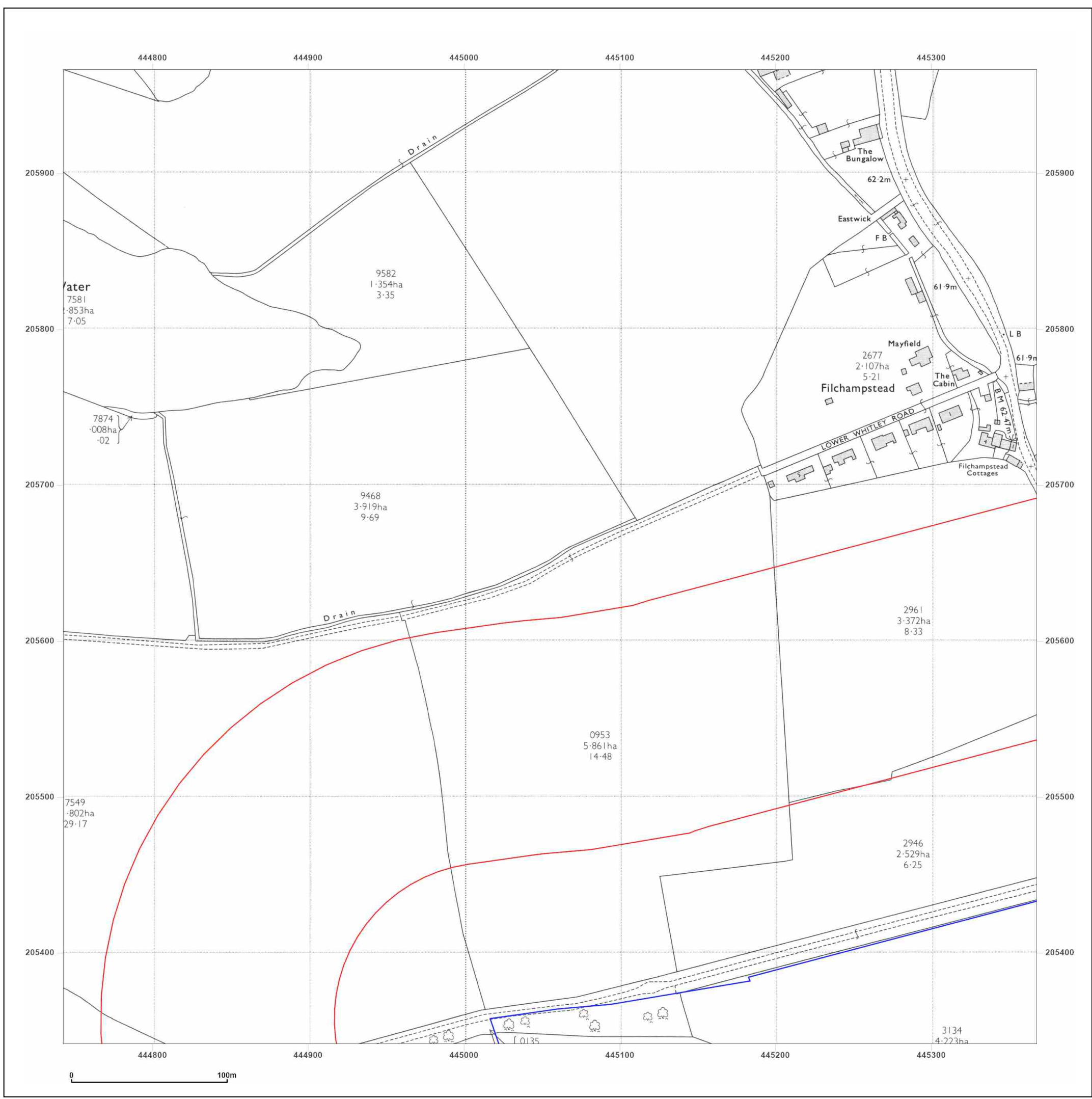


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Map legend available at:



Site Details:

South - BM Solar

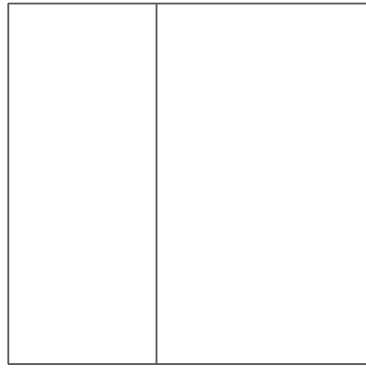
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Report Ref: GSIP-2022-12757-10511_LS_1_2
Grid Ref: 445055, 205654

Map Name: National Grid

Map date: 1970

Scale: 1:2,500

Printed at: 1:2,500

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



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Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_1_2
Grid Ref: 445055, 205654

Map Name: National Grid

Map date: 1977

Scale: 1:2,500

Printed at: 1:2,500



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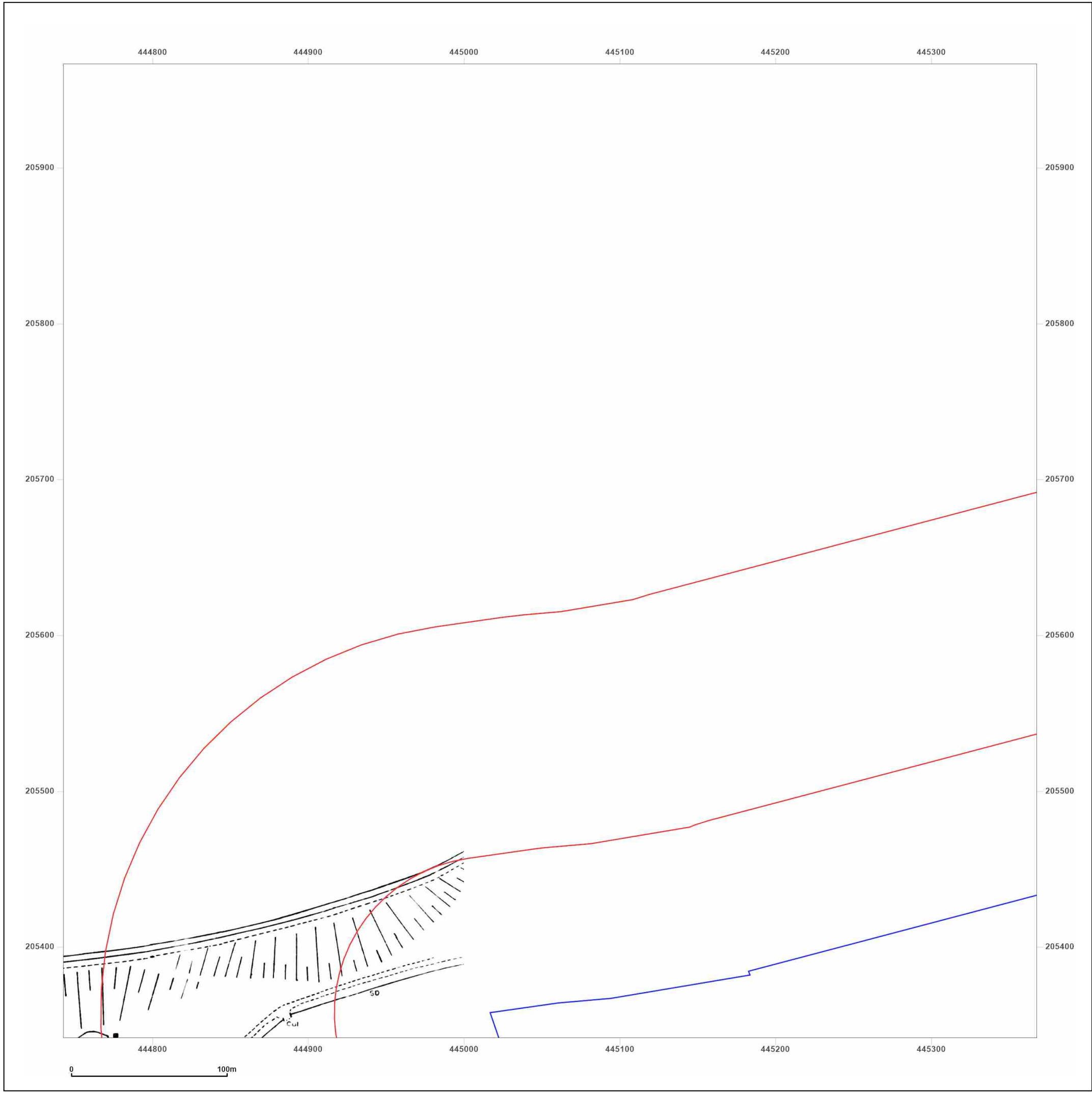


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Map legend available at:



Site Details:

South - BM Solar

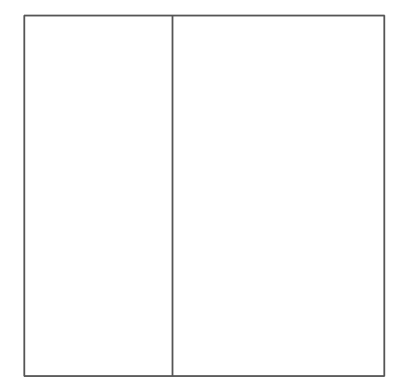
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Report Ref: GSIP-2022-12757-10511_LS_1_2
Grid Ref: 445055, 205654

Map Name: National Grid

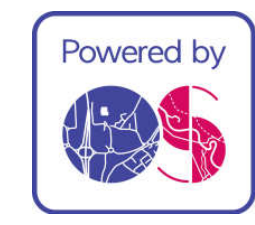
Map date: 1986

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1962
 Revised 1986
 Edition N/A
 Copyright 1986
 Levelled 1962

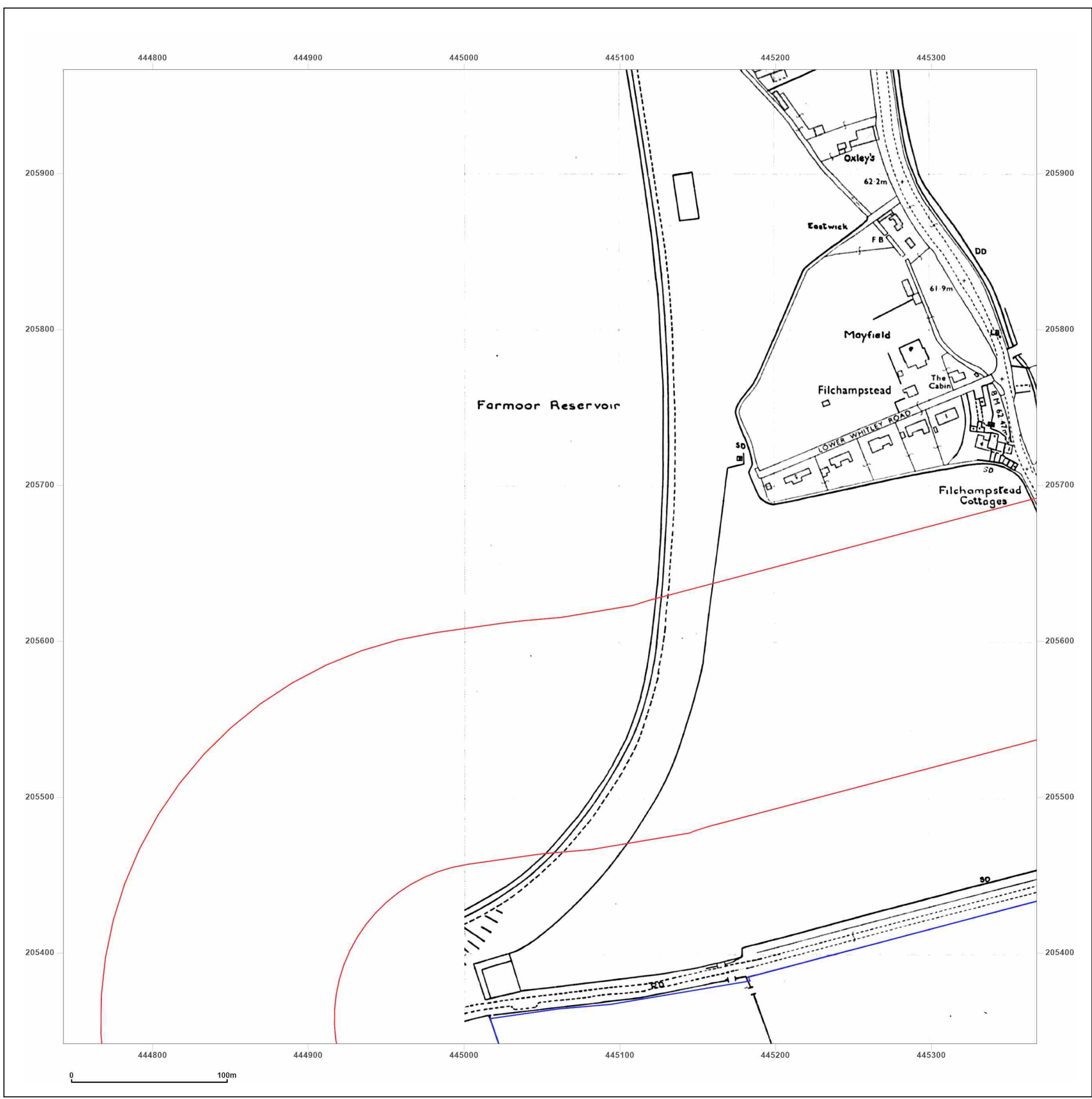


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_1_2
Grid Ref: 445055, 205654

Map Name: National Grid

Map date: 1992-1994

Scale: 1:2,500

Printed at: 1:2,500



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

Surveyed 1962
 Revised 1992
 Edition N/A
 Copyright 1992
 Levelled 1962

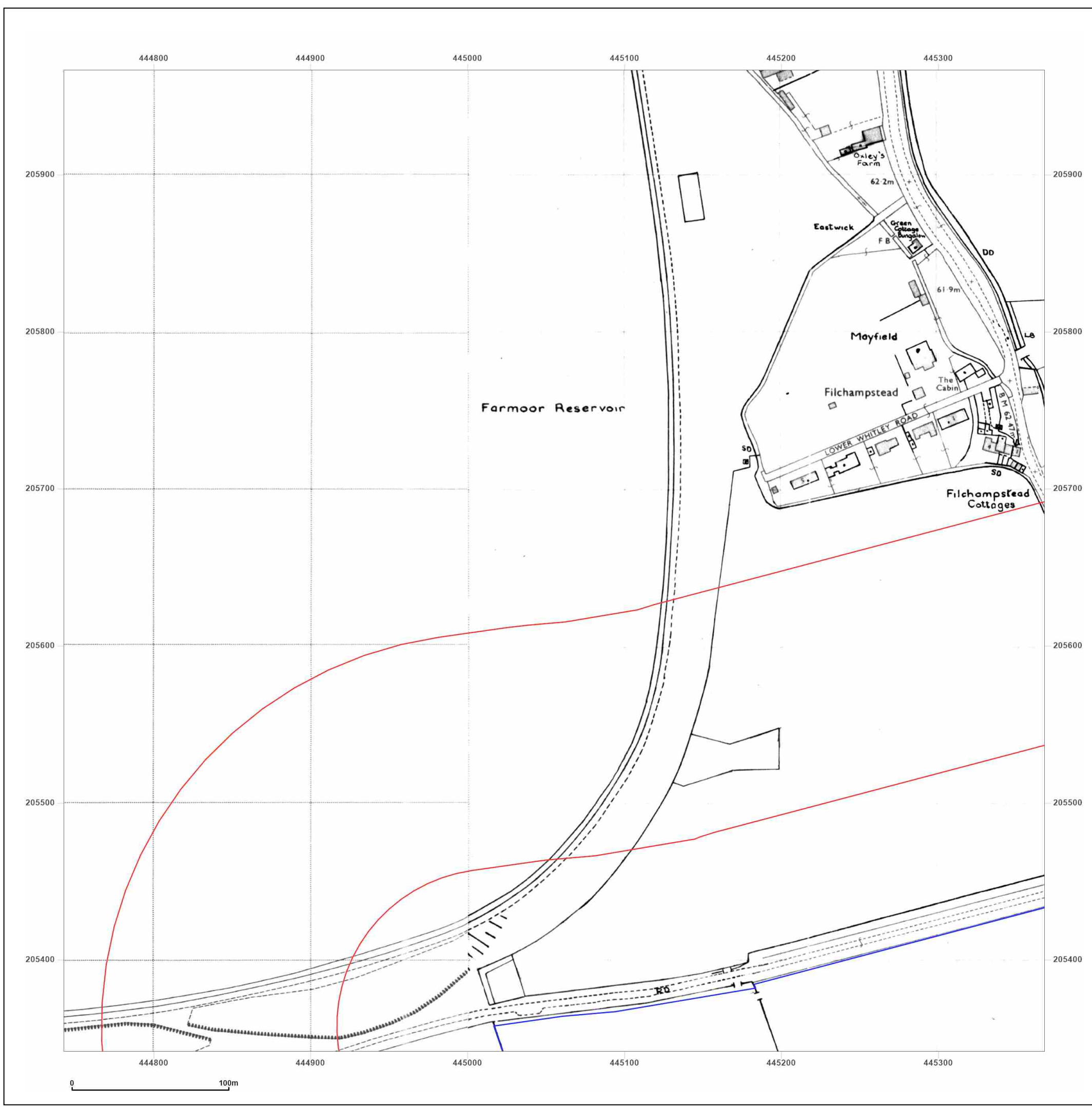


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Site Details:

South - BM Solar

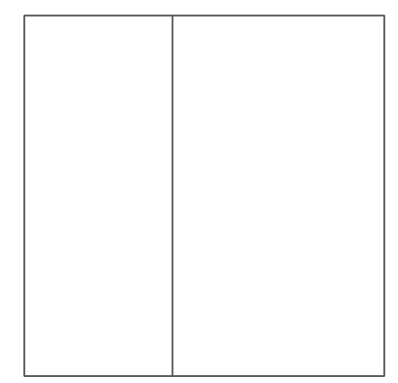
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Grid Ref: 445055, 205654

Map Name: National Grid

Map date: 1994

Scale: 1:2,500

Printed at: 1:2,500



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

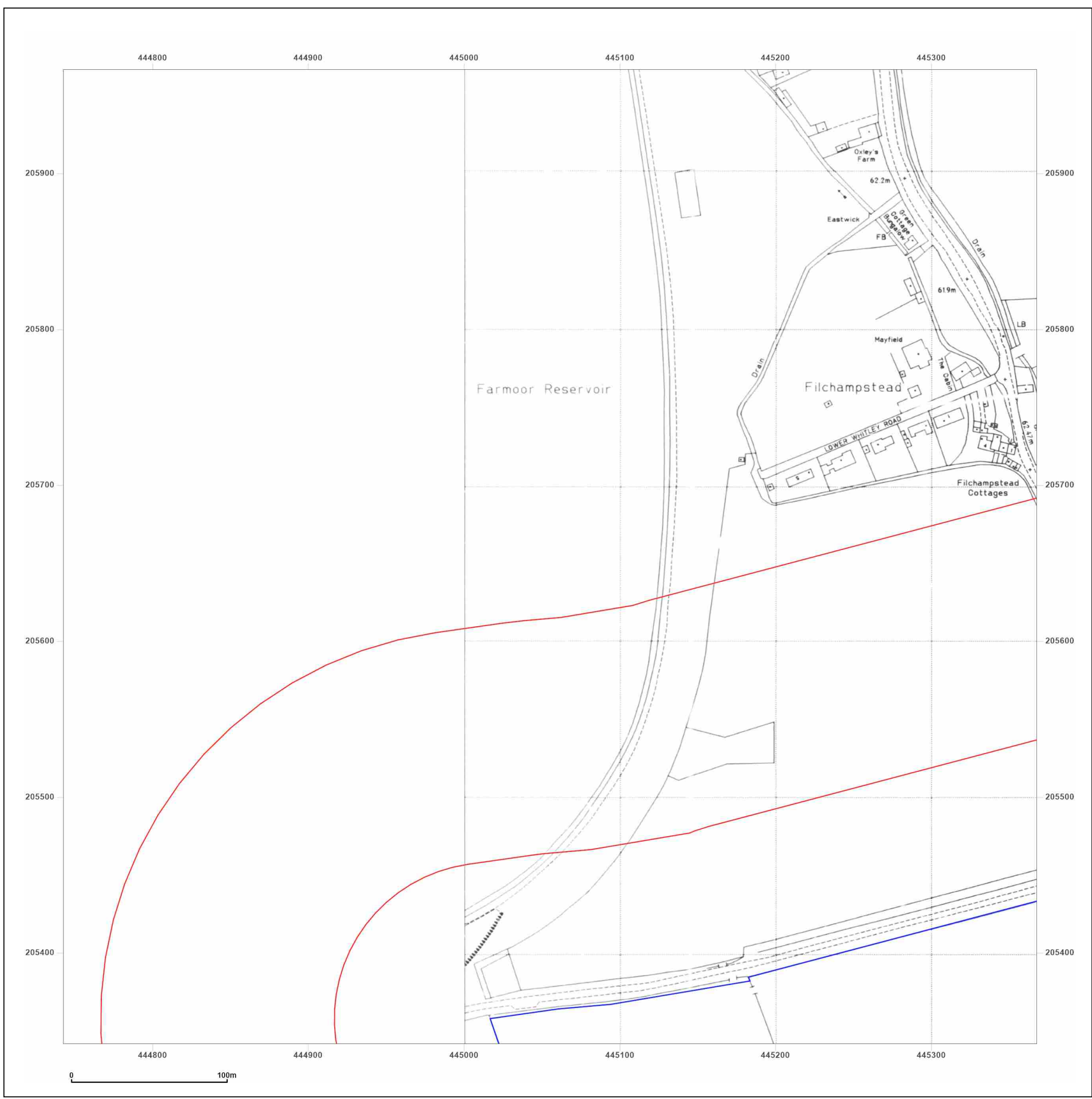


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_2_1
Grid Ref: 445680, 205029

Map Name: County Series

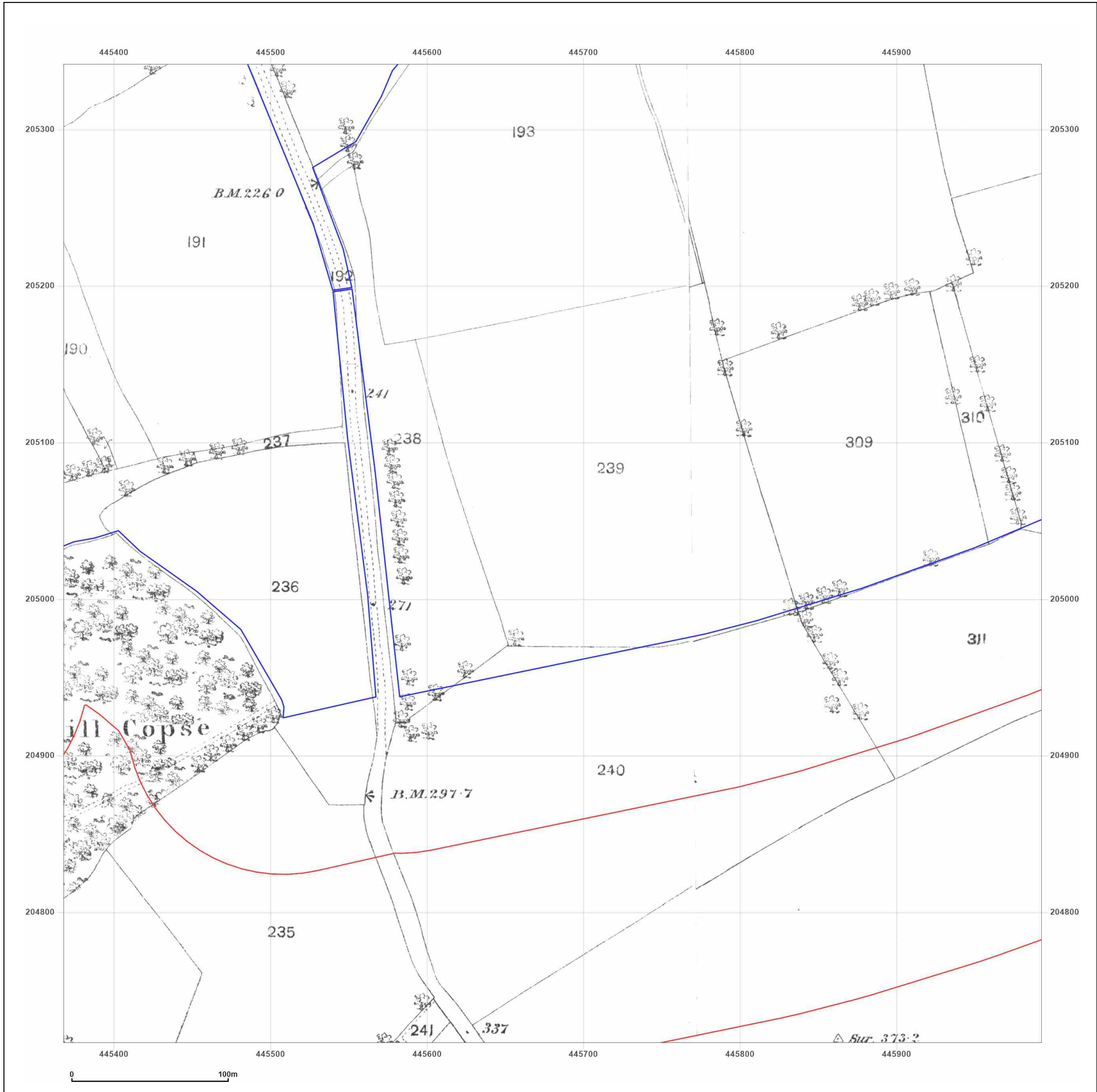
Map date: 1876

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1876 Revised 1876 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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Map legend available at:

Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_2_1
Grid Ref: 445680, 205029

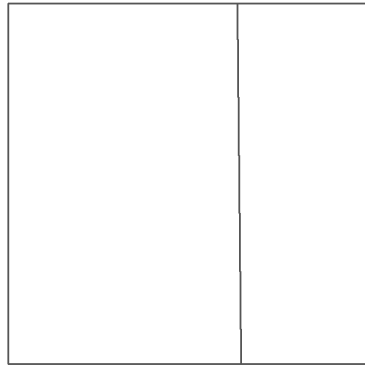
Map Name: County Series

Map date: 1899

Scale: 1:2,500

Printed at: 1:2,500





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

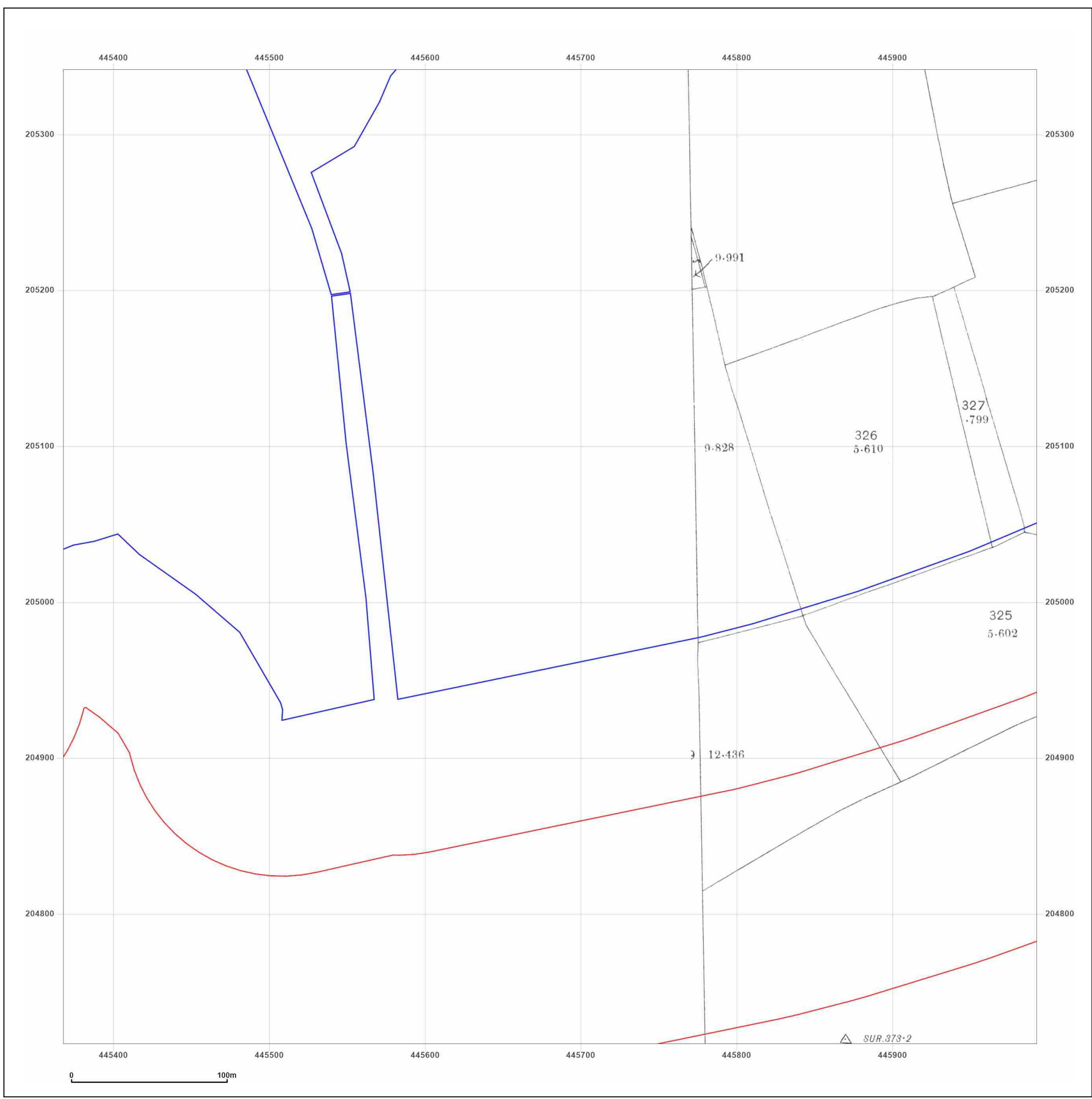


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Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_2_1
Grid Ref: 445680, 205029

Map Name: County Series

Map date: 1913

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1913 Revised 1913 Edition N/A Copyright N/A Levelled N/A	Surveyed 1913 Revised 1913 Edition N/A Copyright N/A Levelled N/A
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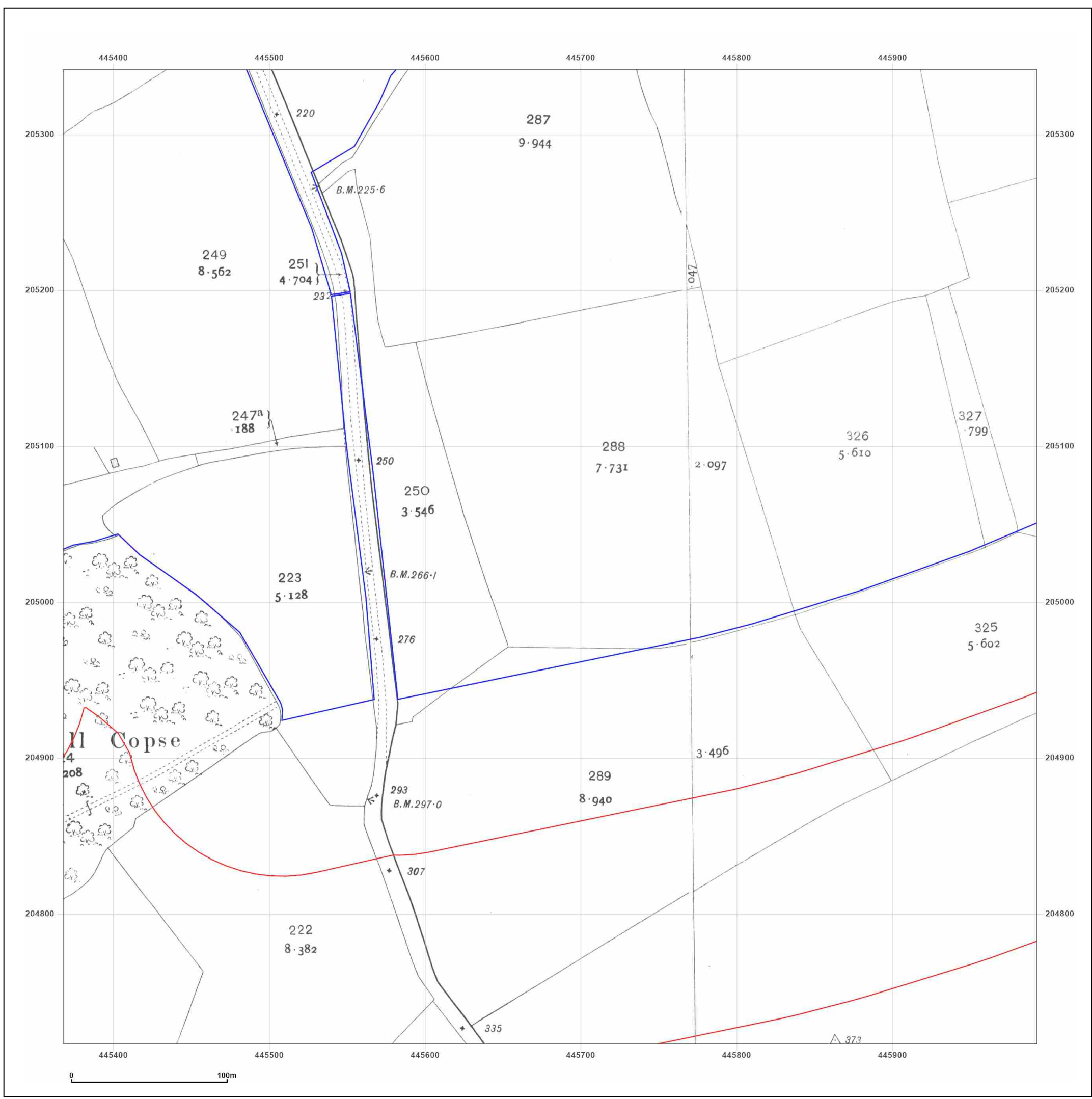


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Production date: 24 May 2022

Map legend available at:



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Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_2_1
Grid Ref: 445680, 205029

Map Name: County Series

Map date: 1937

Scale: 1:2,500

Printed at: 1:2,500



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

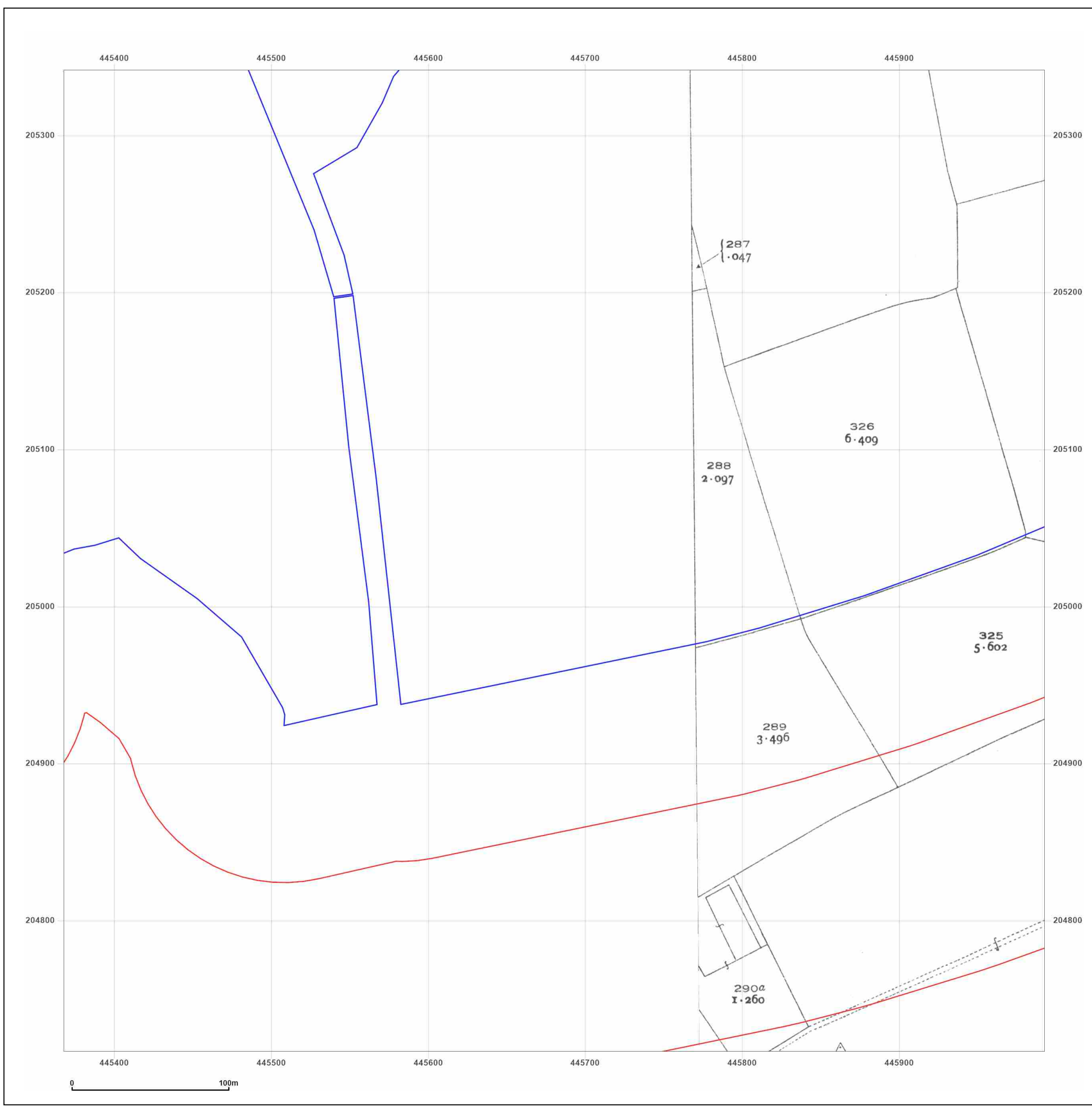


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_2_1
Grid Ref: 445680, 205029

Map Name: National Grid

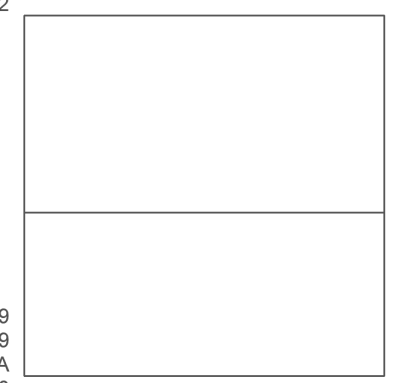
Map date: 1970

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1969
 Revised 1969
 Edition N/A
 Copyright 1970
 Levelled 1962



Surveyed 1969
 Revised 1969
 Edition N/A
 Copyright 1970
 Levelled 1962

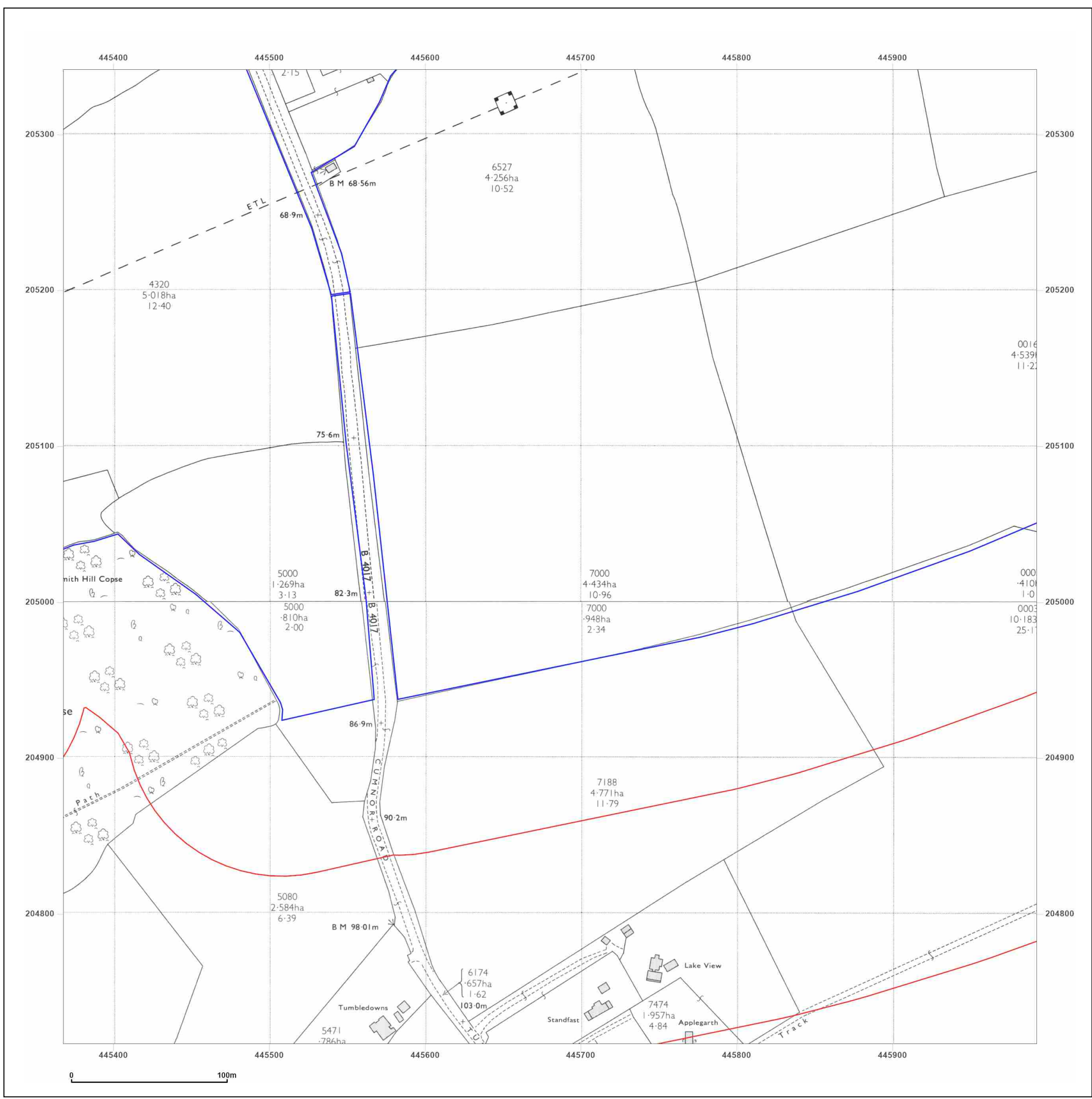


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_2_1
Grid Ref: 445680, 205029

Map Name: National Grid

Map date: 1970

Scale: 1:2,500

Printed at: 1:2,500



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

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 Revised N/A
 Edition N/A
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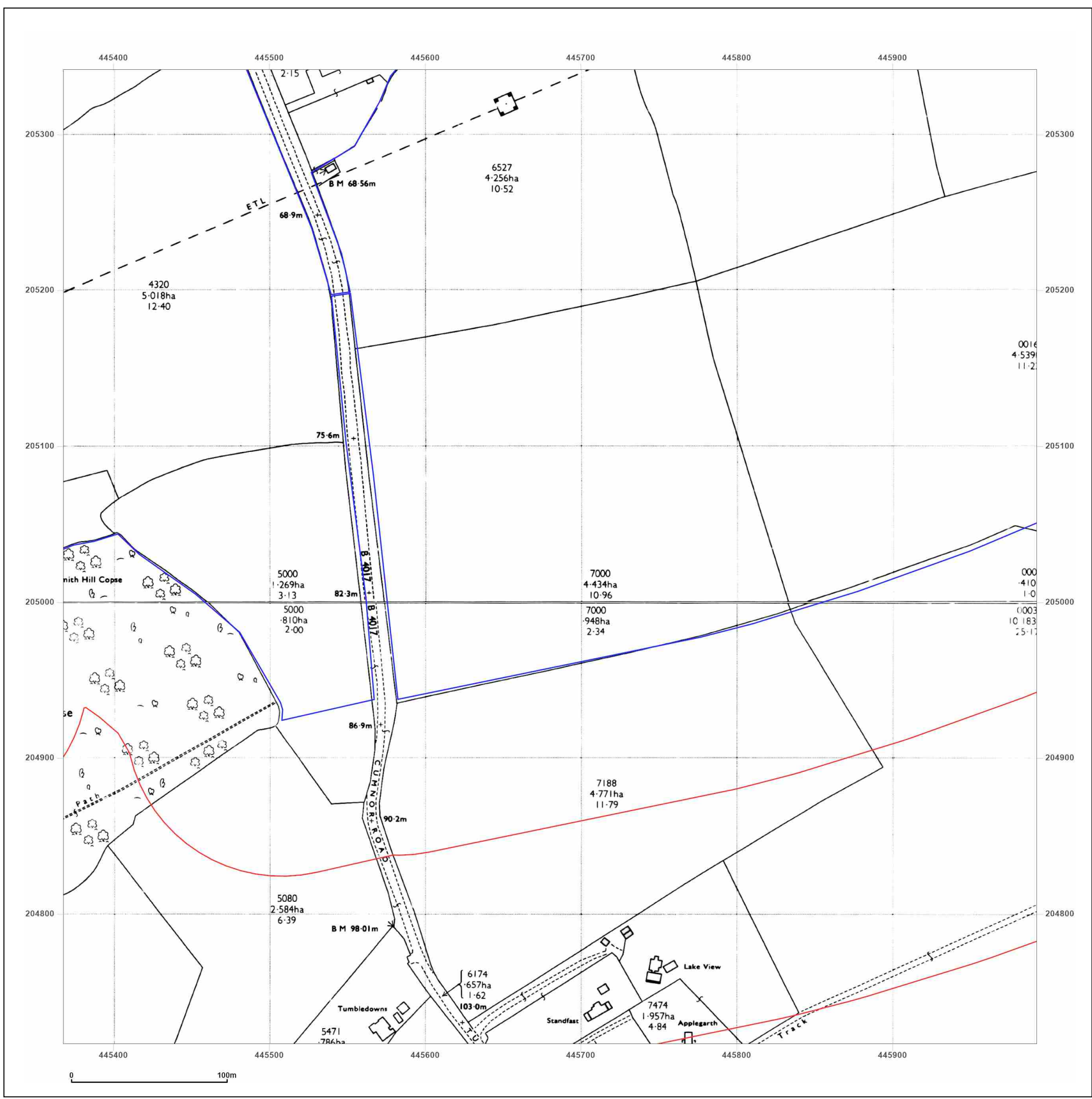


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Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_2_1
Grid Ref: 445680, 205029

Map Name: National Grid

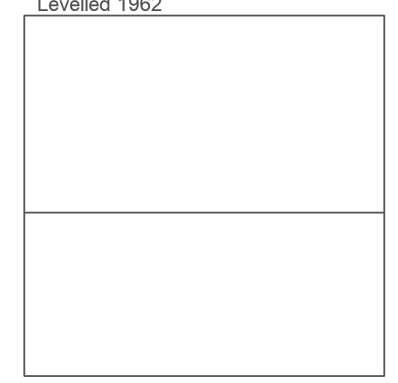
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Printed at: 1:2,500



Surveyed 1962
 Revised 1986
 Edition N/A
 Copyright 1986
 Levelled 1962

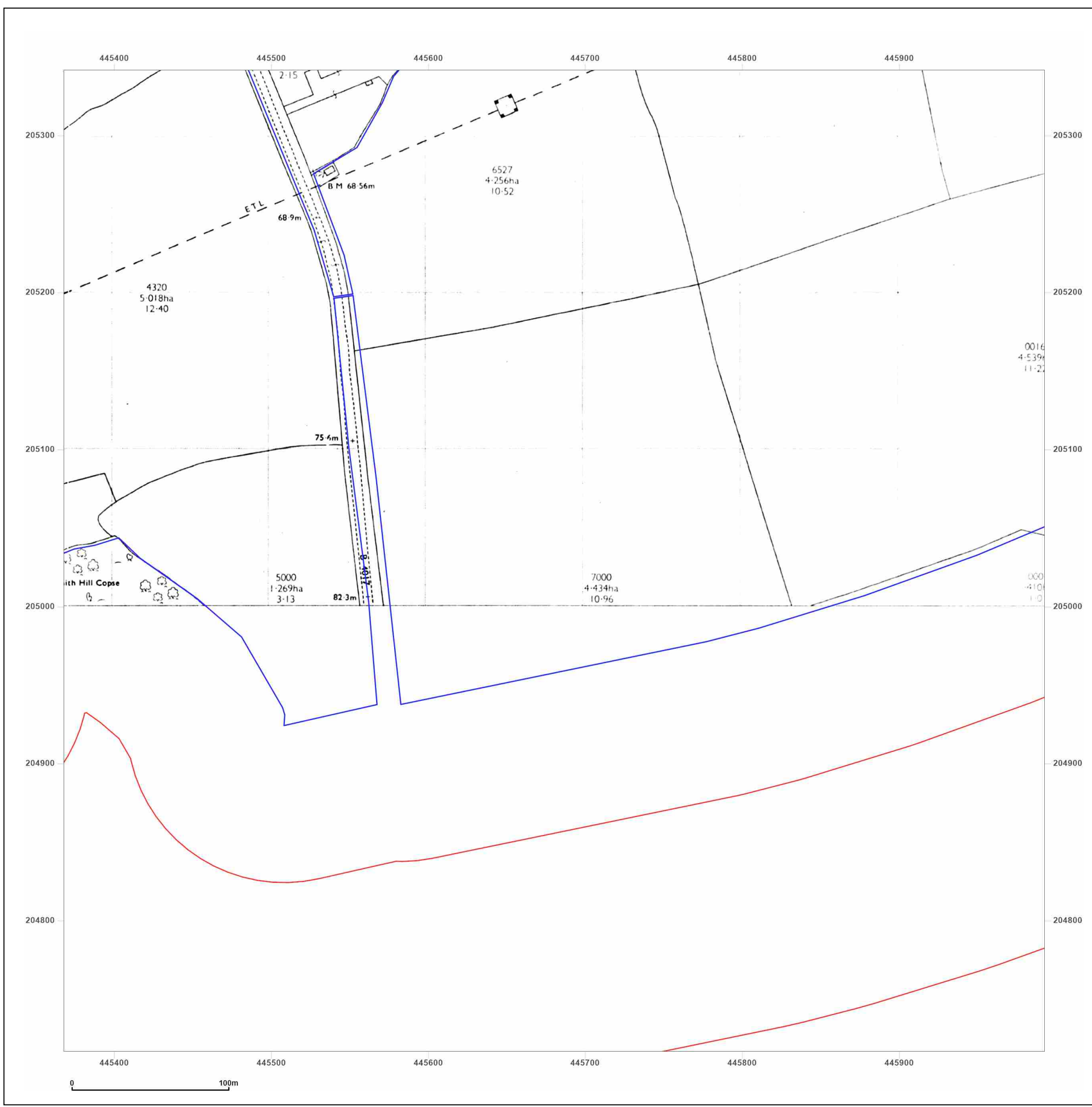


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_2_1
Grid Ref: 445680, 205029

Map Name: National Grid

Map date: 1992-1994

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1962
 Revised 1992
 Edition N/A
 Copyright 1992
 Levelled 1962

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

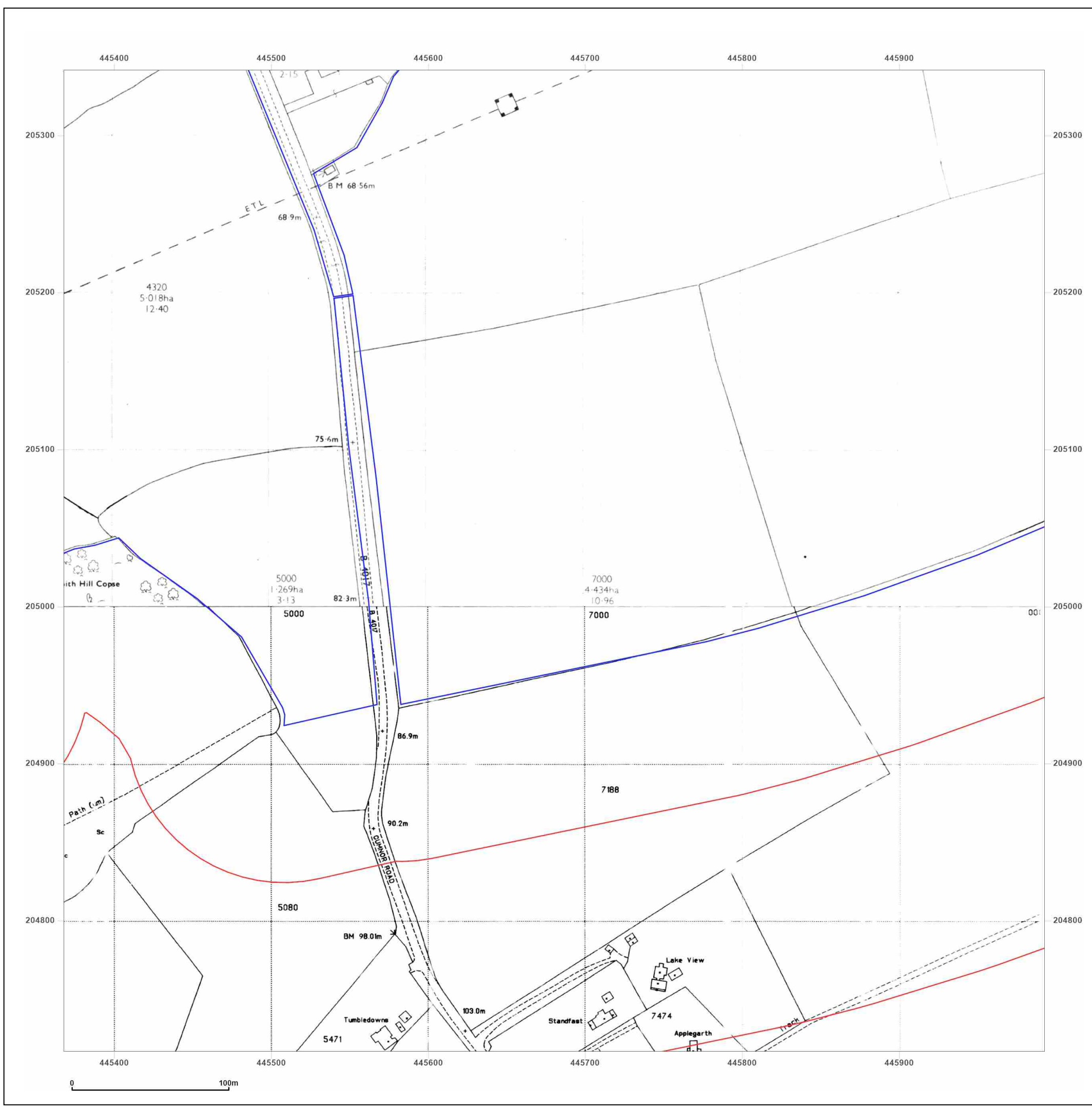


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_2_1
Grid Ref: 445680, 205029

Map Name: National Grid

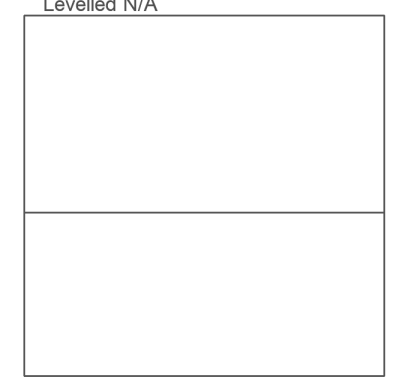
Map date: 1994

Scale: 1:2,500

Printed at: 1:2,500



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

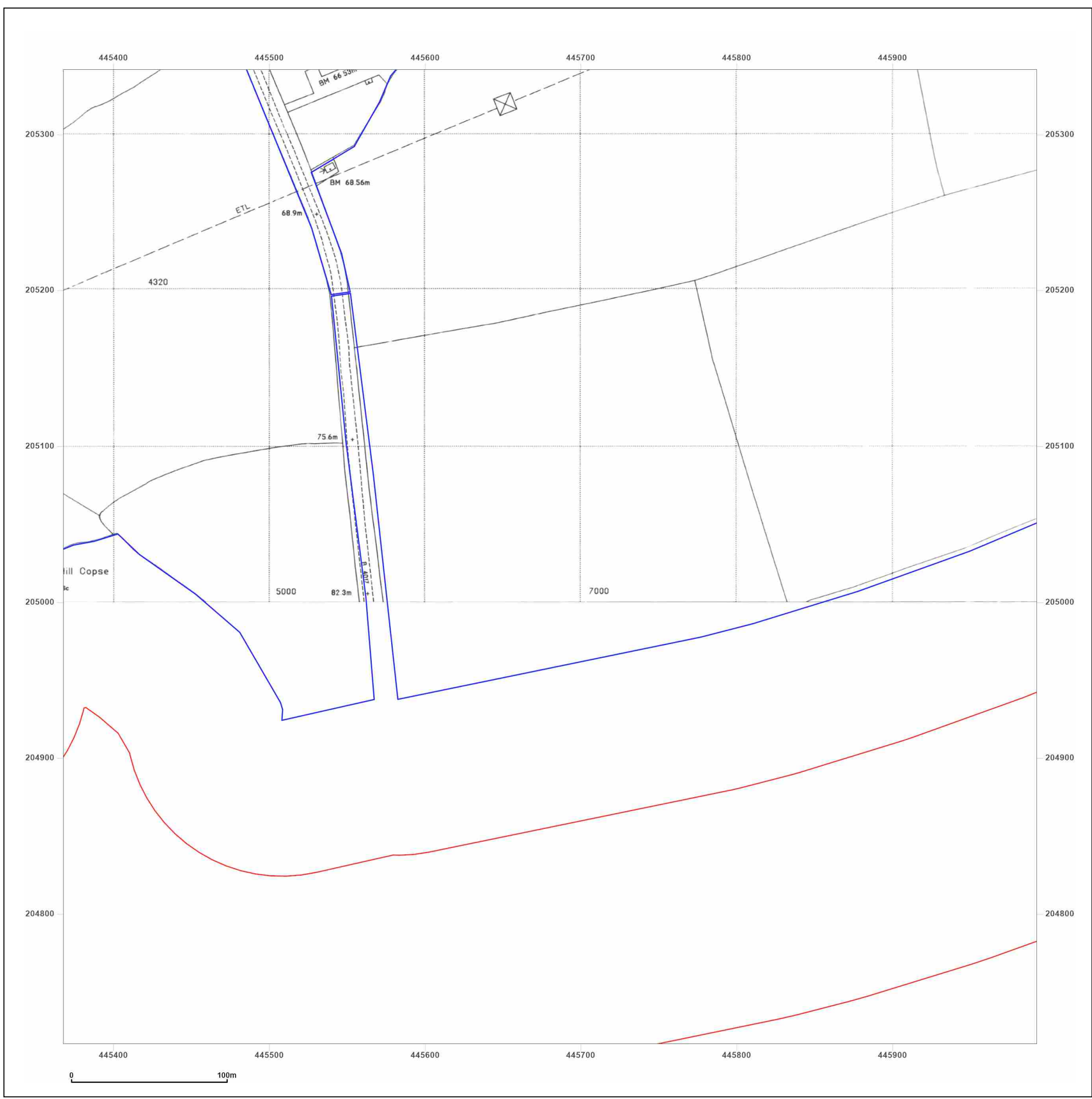


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Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_2_2
Grid Ref: 445680, 205654

Map Name: County Series

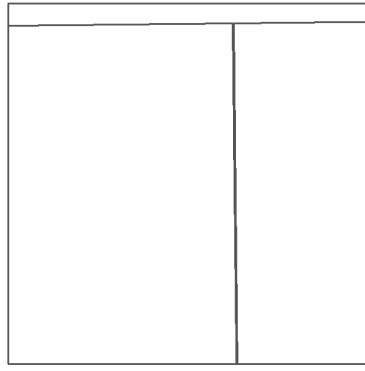
Map date: 1876

Scale: 1:2,500

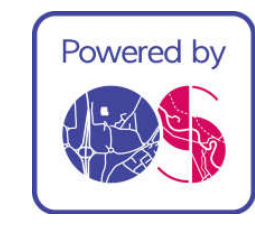
Printed at: 1:2,500



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



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

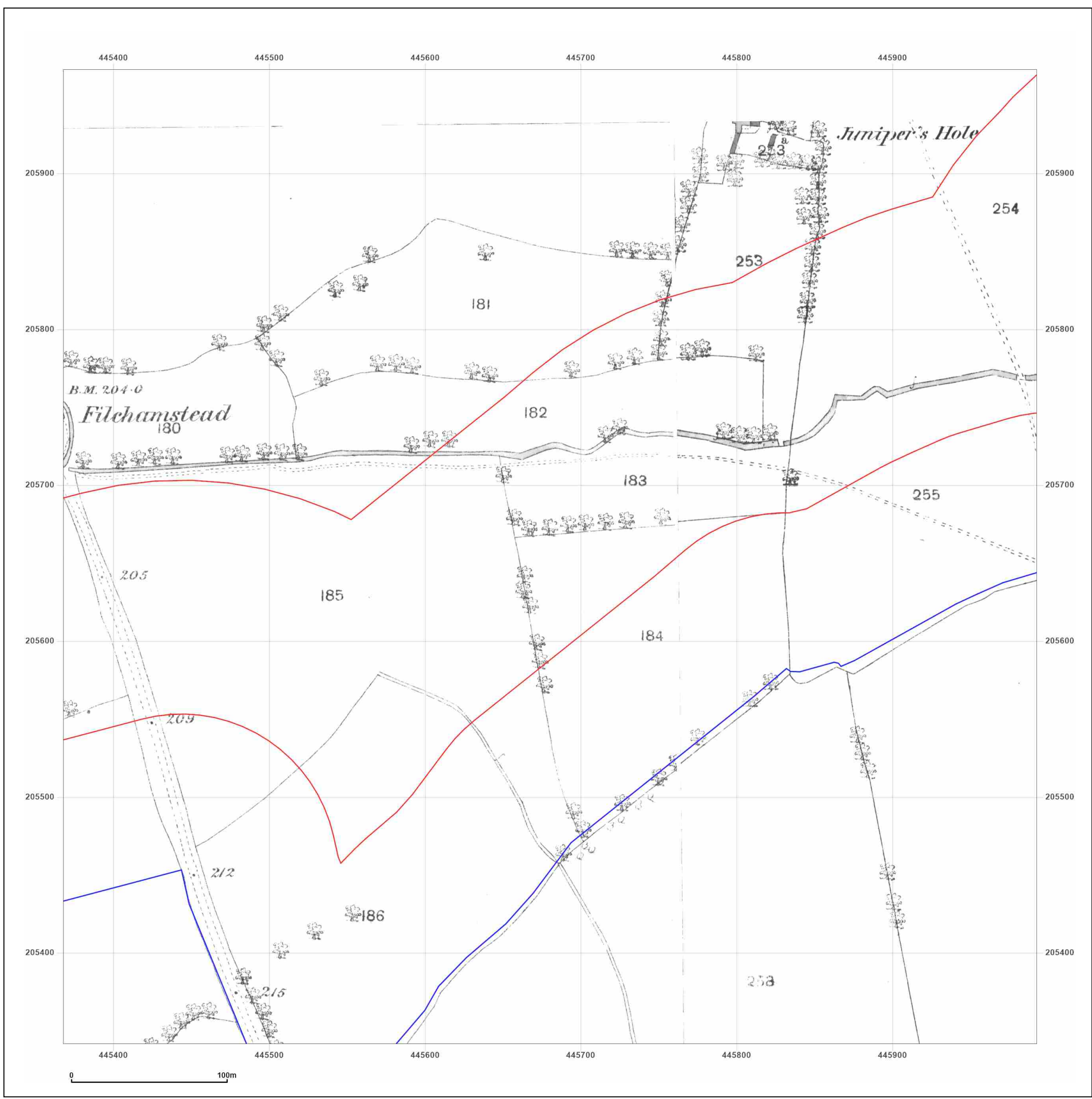


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_2_2
Grid Ref: 445680, 205654

Map Name: County Series

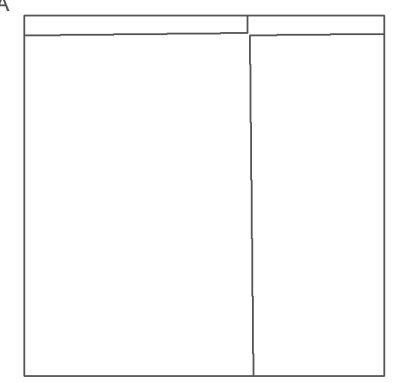
Map date: 1899

Scale: 1:2,500

Printed at: 1:2,500



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



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

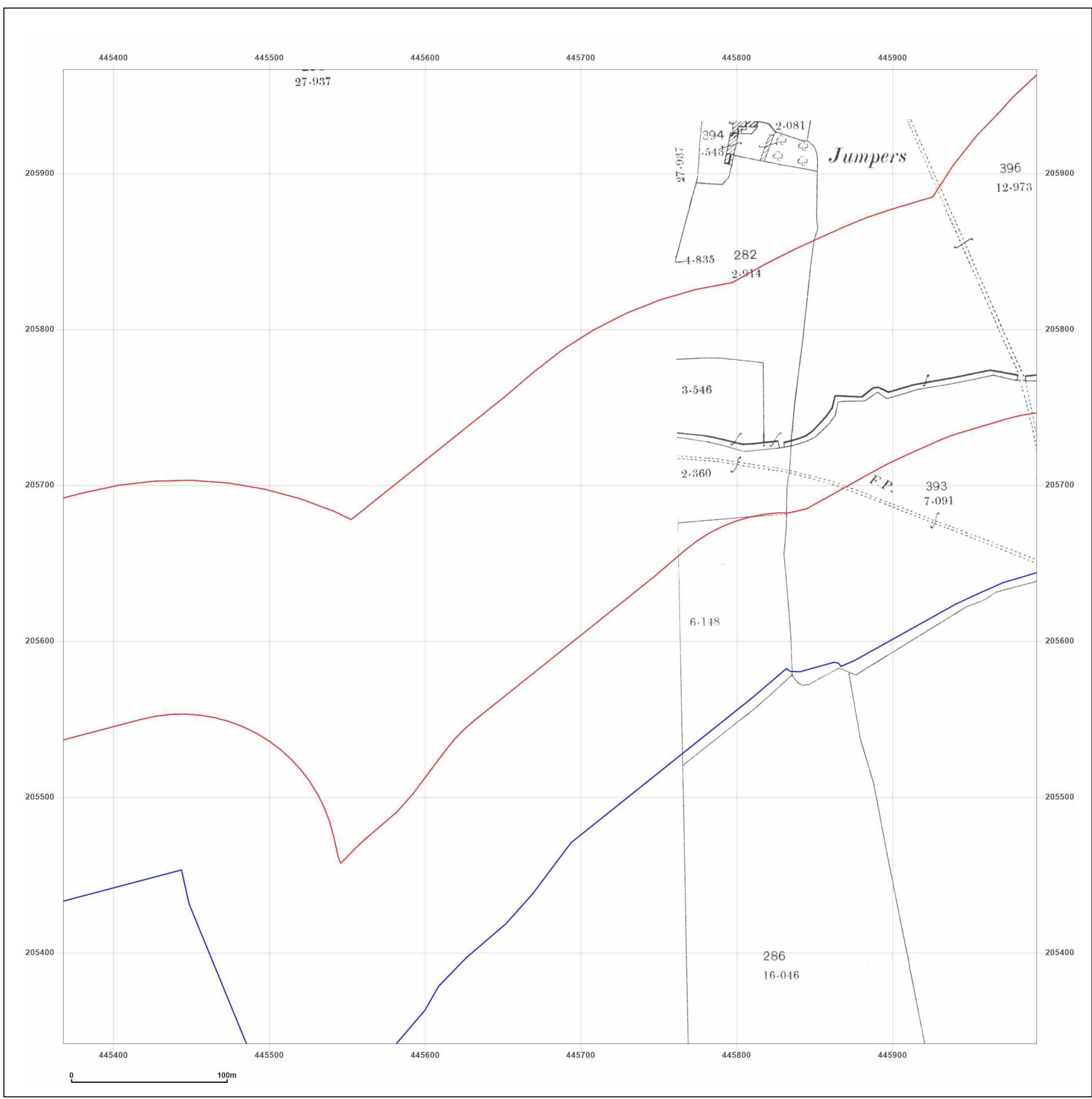


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

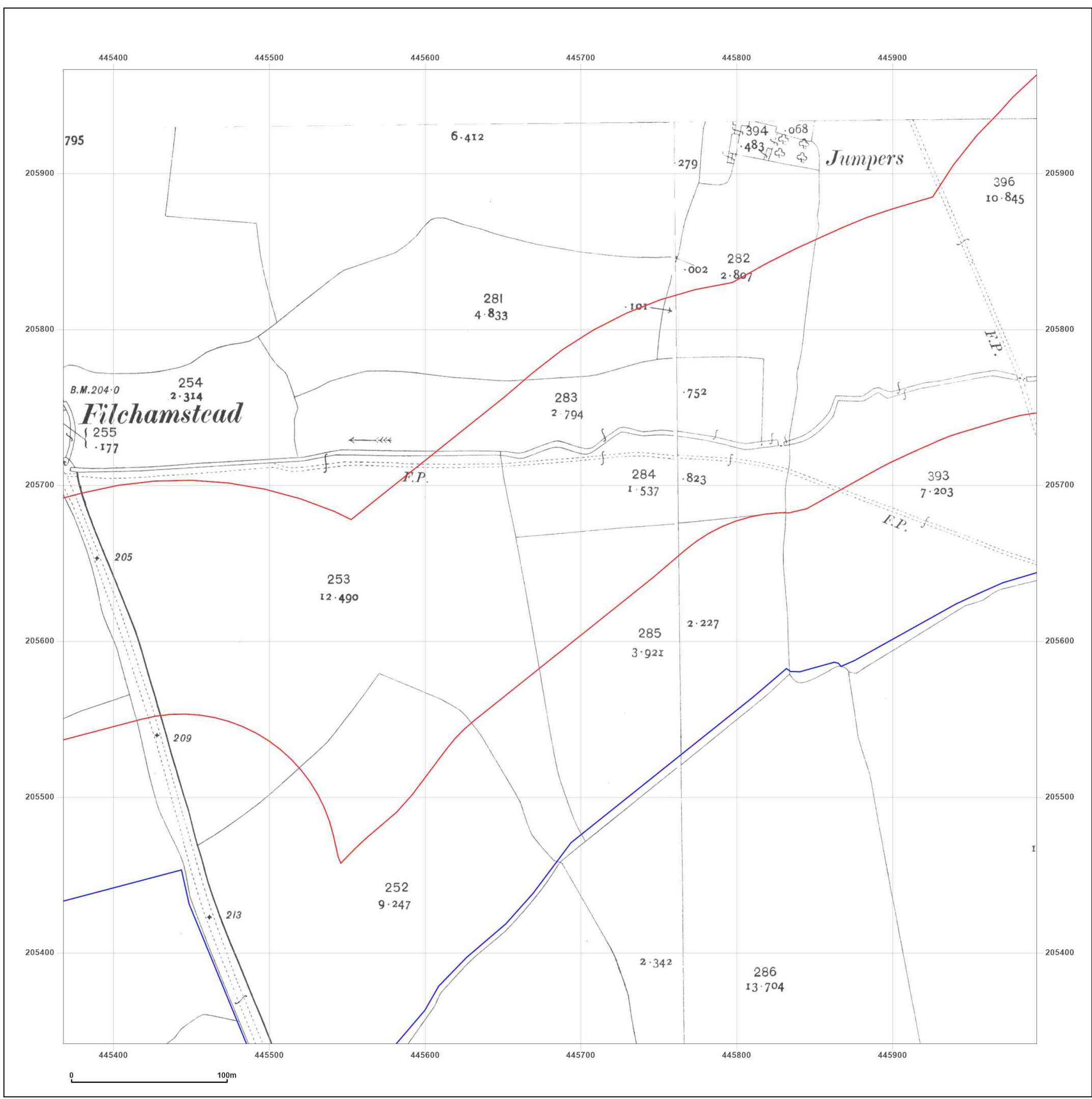
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Report Ref: GSIP-2022-12757-10511_LS_2_2
Grid Ref: 445680, 205654

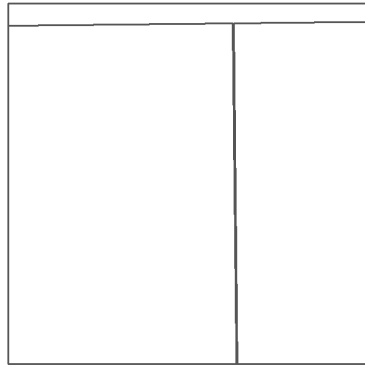
Map Name: County Series

Map date: 1913

Scale: 1:2,500

Printed at: 1:2,500



<p>Surveyed 1913 Revised 1913 Edition N/A Copyright N/A Levelled N/A</p>		<p>Surveyed 1913 Revised 1913 Edition N/A Copyright N/A Levelled N/A</p>
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Map legend available at:

Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_2_2
Grid Ref: 445680, 205654

Map Name: County Series

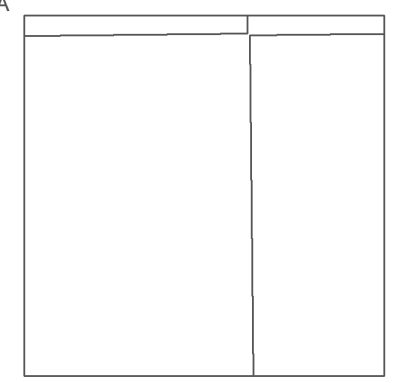
Map date: 1937

Scale: 1:2,500

Printed at: 1:2,500



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



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

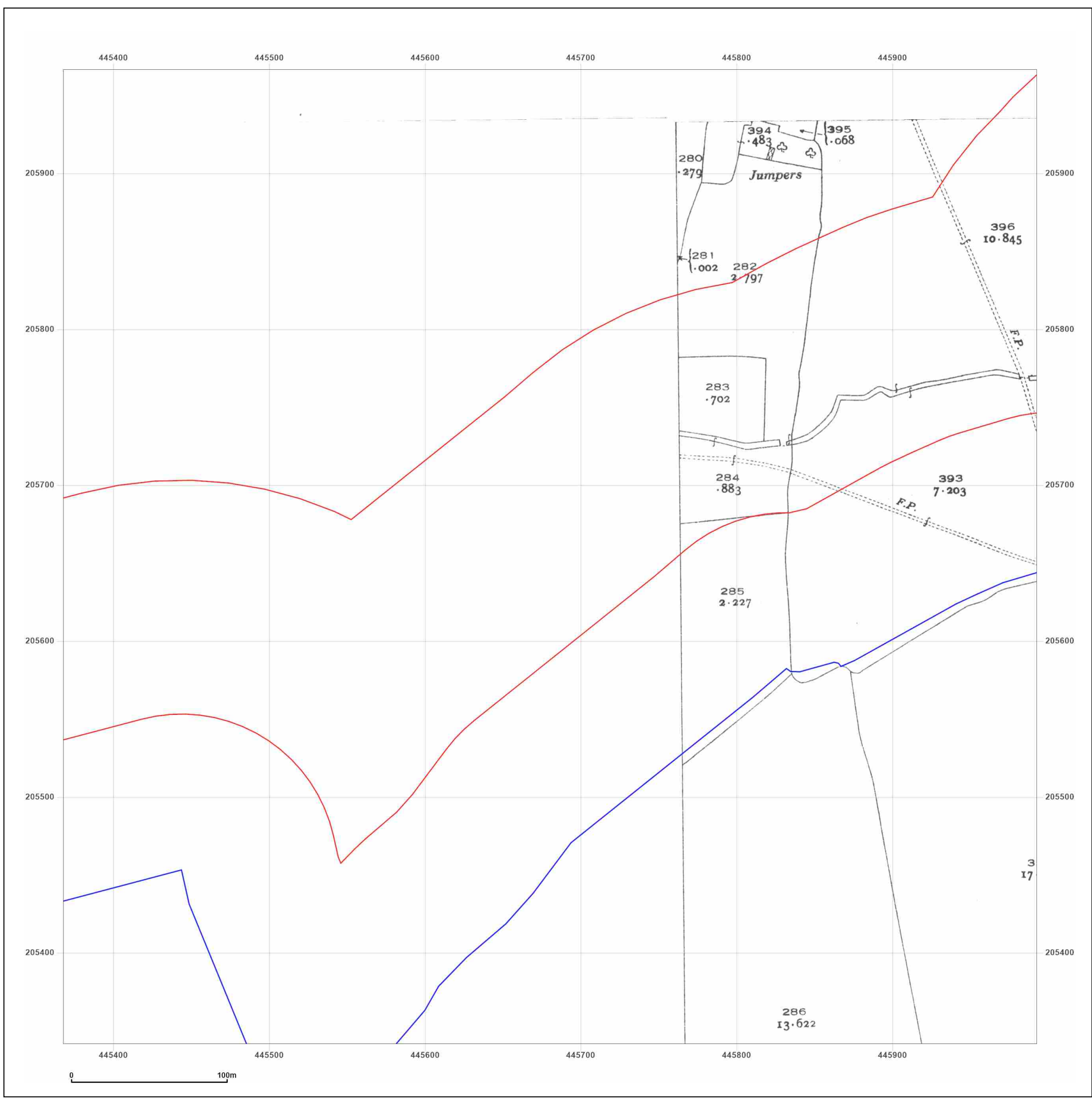


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Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_2_2
Grid Ref: 445680, 205654

Map Name: National Grid

Map date: 1970

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1969
 Revised 1969
 Edition N/A
 Copyright 1970
 Levelled 1962

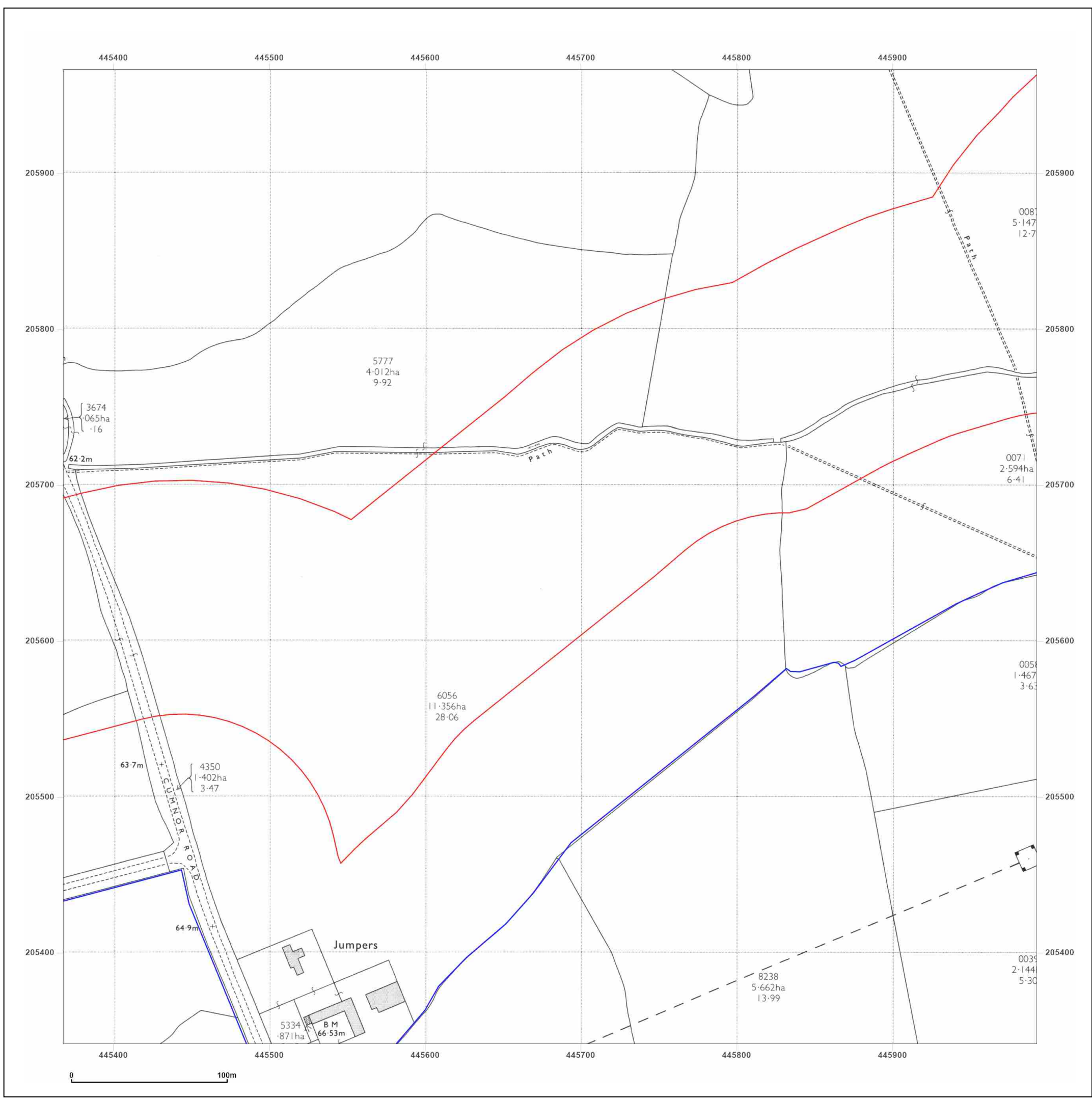


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_2_2
Grid Ref: 445680, 205654

Map Name: National Grid

Map date: 1970

Scale: 1:2,500

Printed at: 1:2,500



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

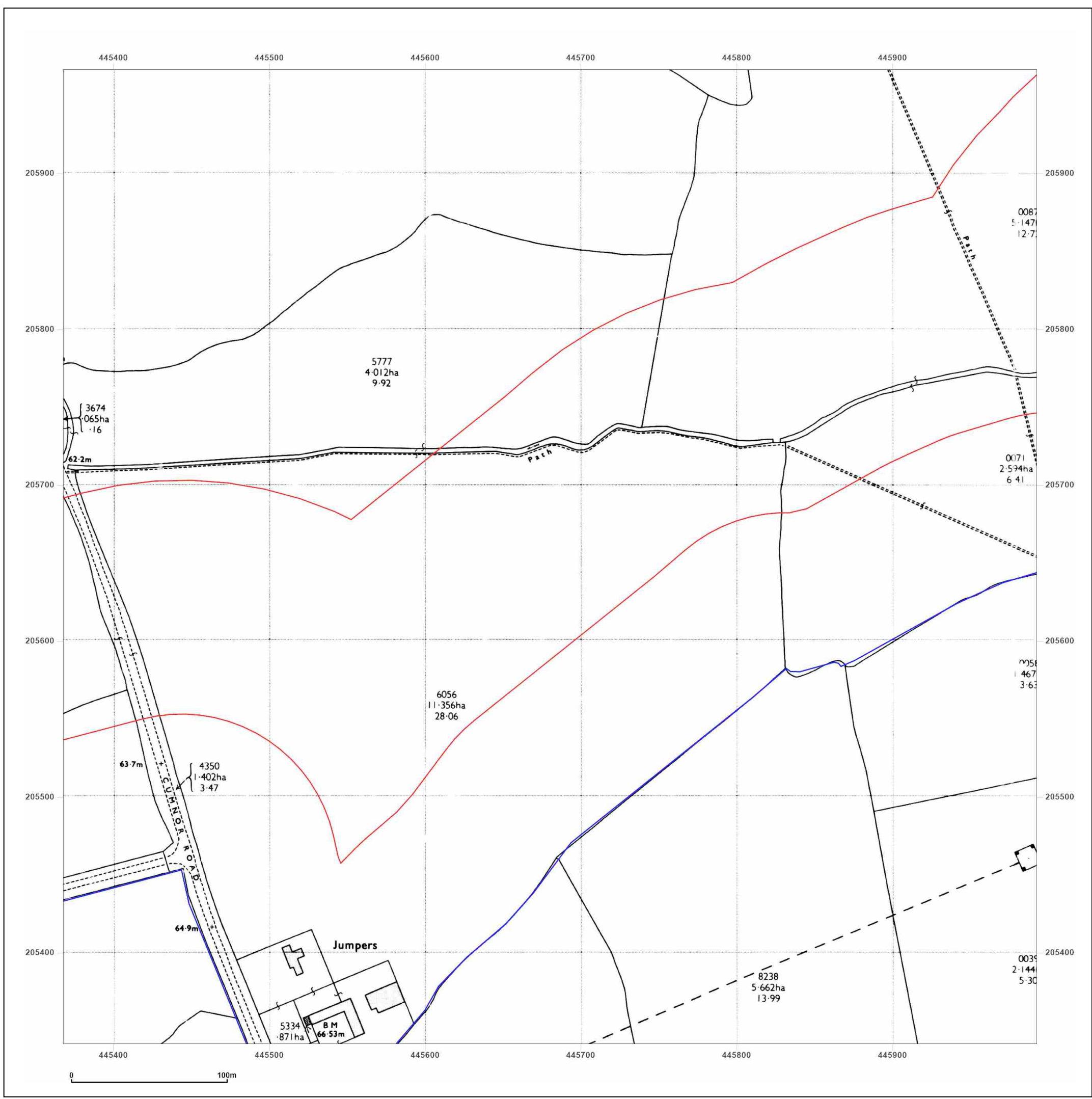


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_2_2
Grid Ref: 445680, 205654

Map Name: National Grid

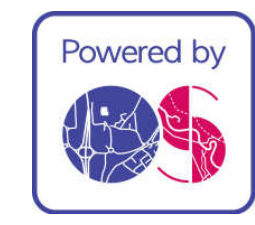
Map date: 1986

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1962
 Revised 1986
 Edition N/A
 Copyright 1986
 Levelled 1962

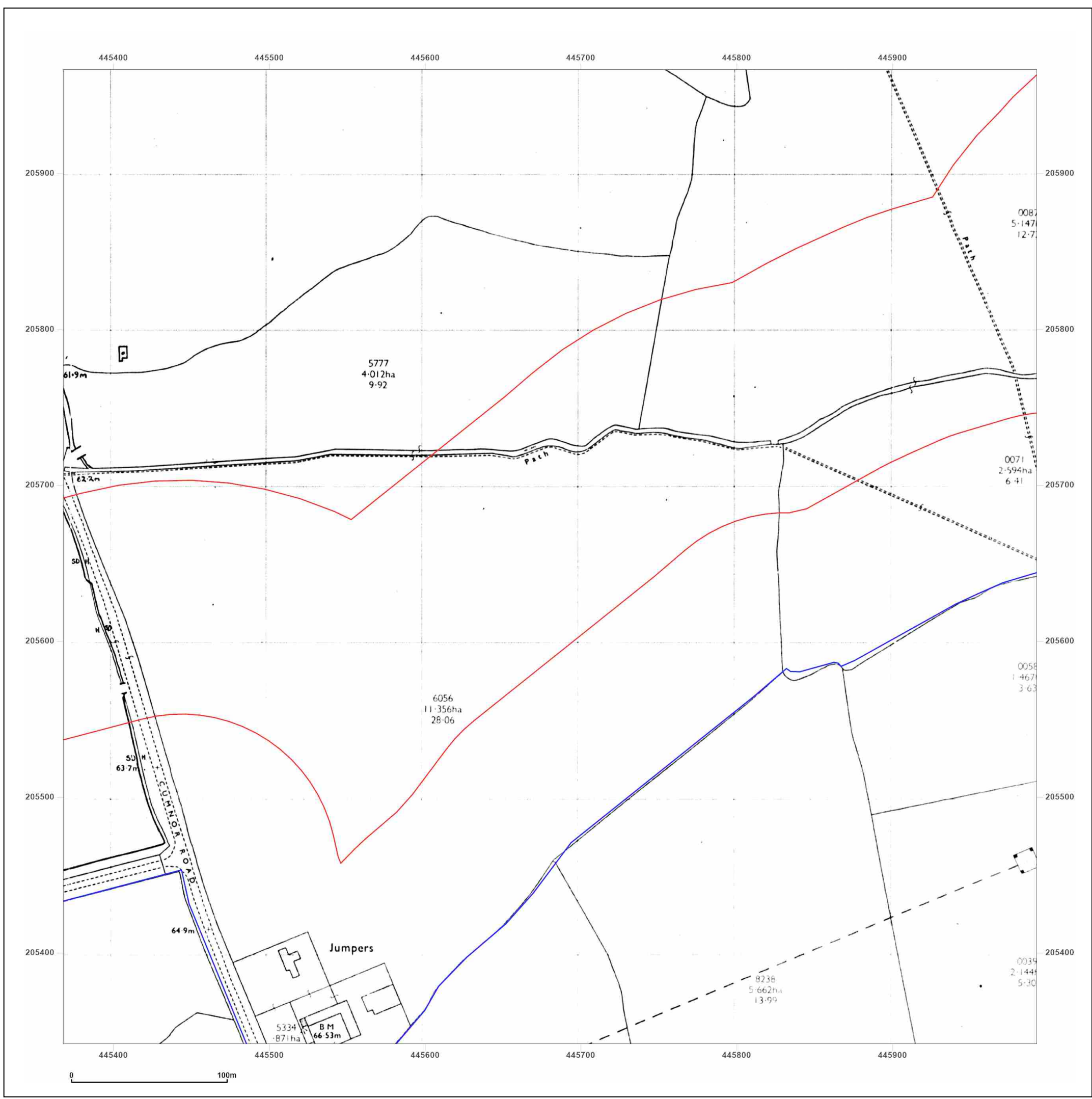


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Production date: 24 May 2022

Map legend available at: XXXXXXXXXX



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_2_2
Grid Ref: 445680, 205654

Map Name: National Grid

Map date: 1992

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1962
 Revised 1992
 Edition N/A
 Copyright 1992
 Levelled 1962

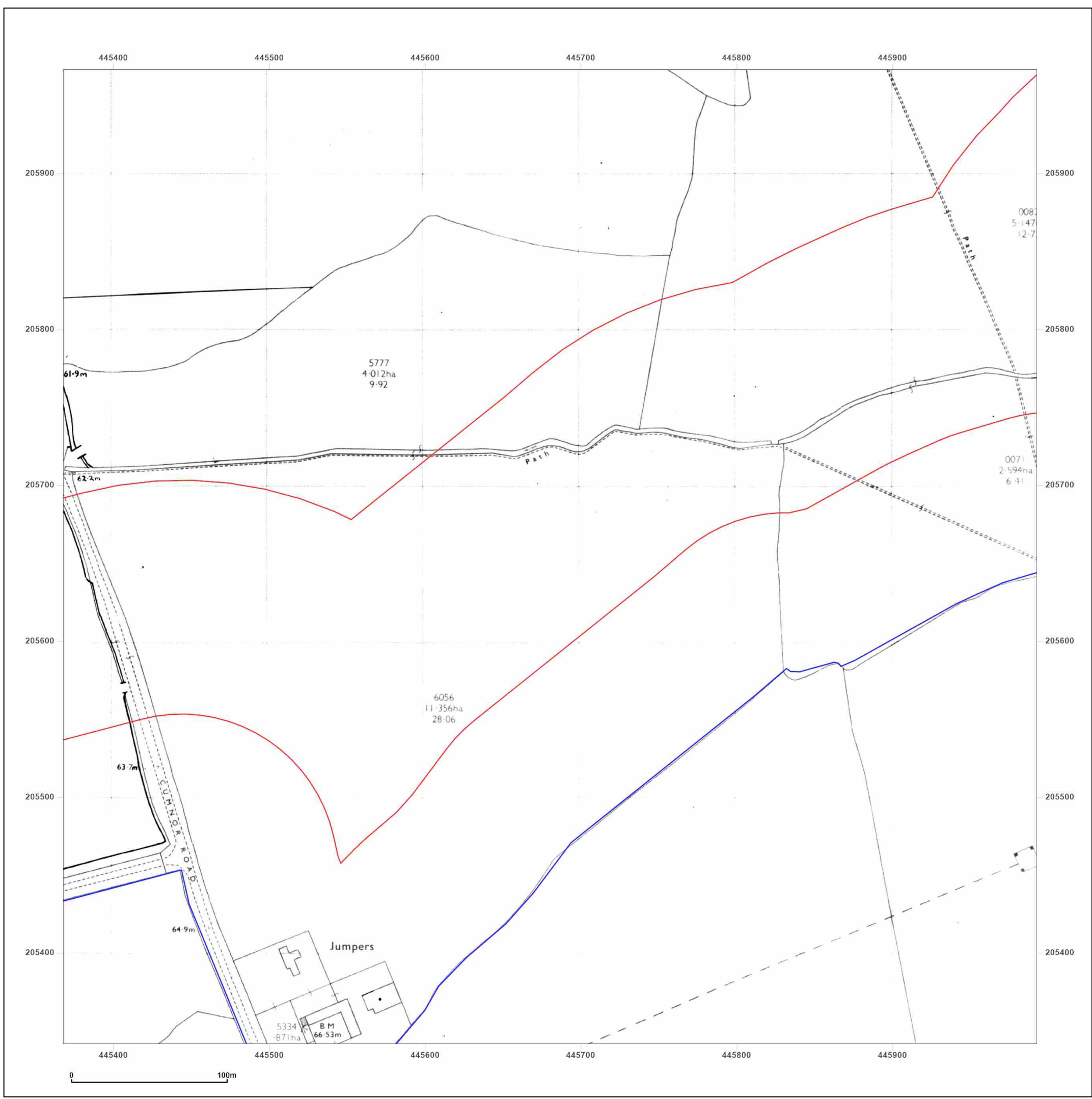


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Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_2_2
Grid Ref: 445680, 205654

Map Name: National Grid

Map date: 1994

Scale: 1:2,500

Printed at: 1:2,500



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

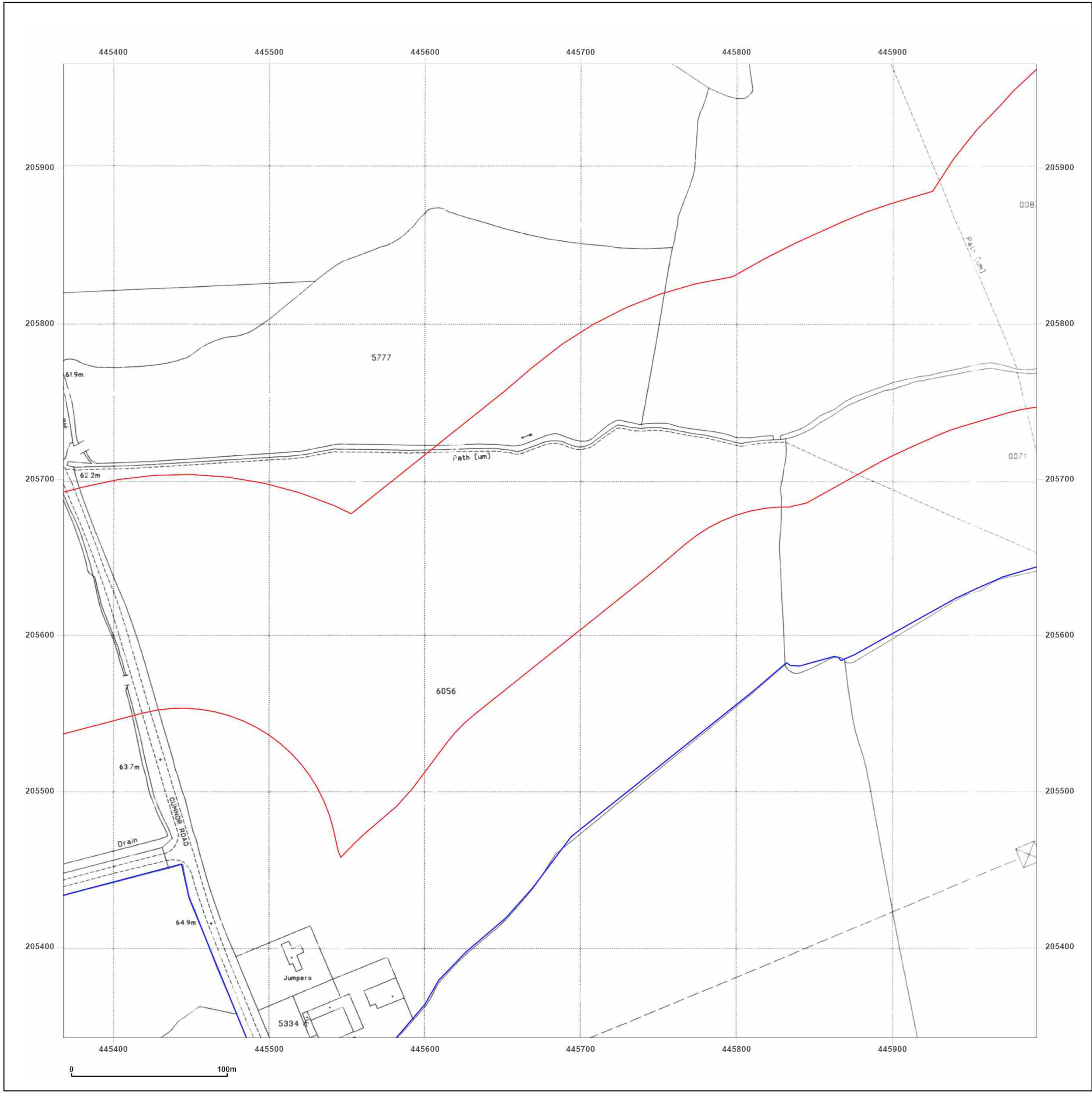


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Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_3_1
Grid Ref: 446305, 205029

Map Name: County Series

Map date: 1876

Scale: 1:2,500

Printed at: 1:2,500



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

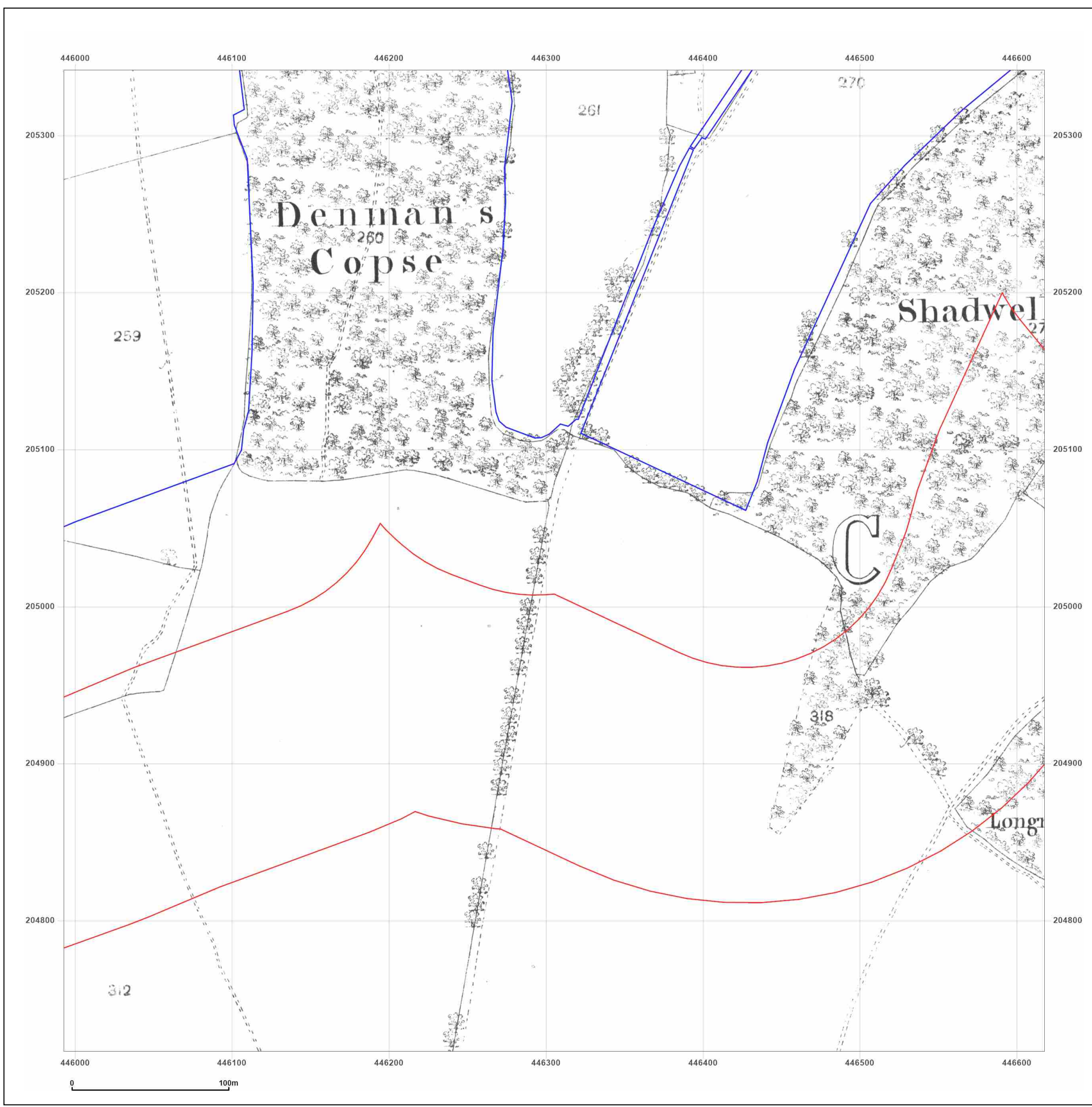


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_3_1
Grid Ref: 446305, 205029

Map Name: County Series

Map date: 1899

Scale: 1:2,500

Printed at: 1:2,500



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

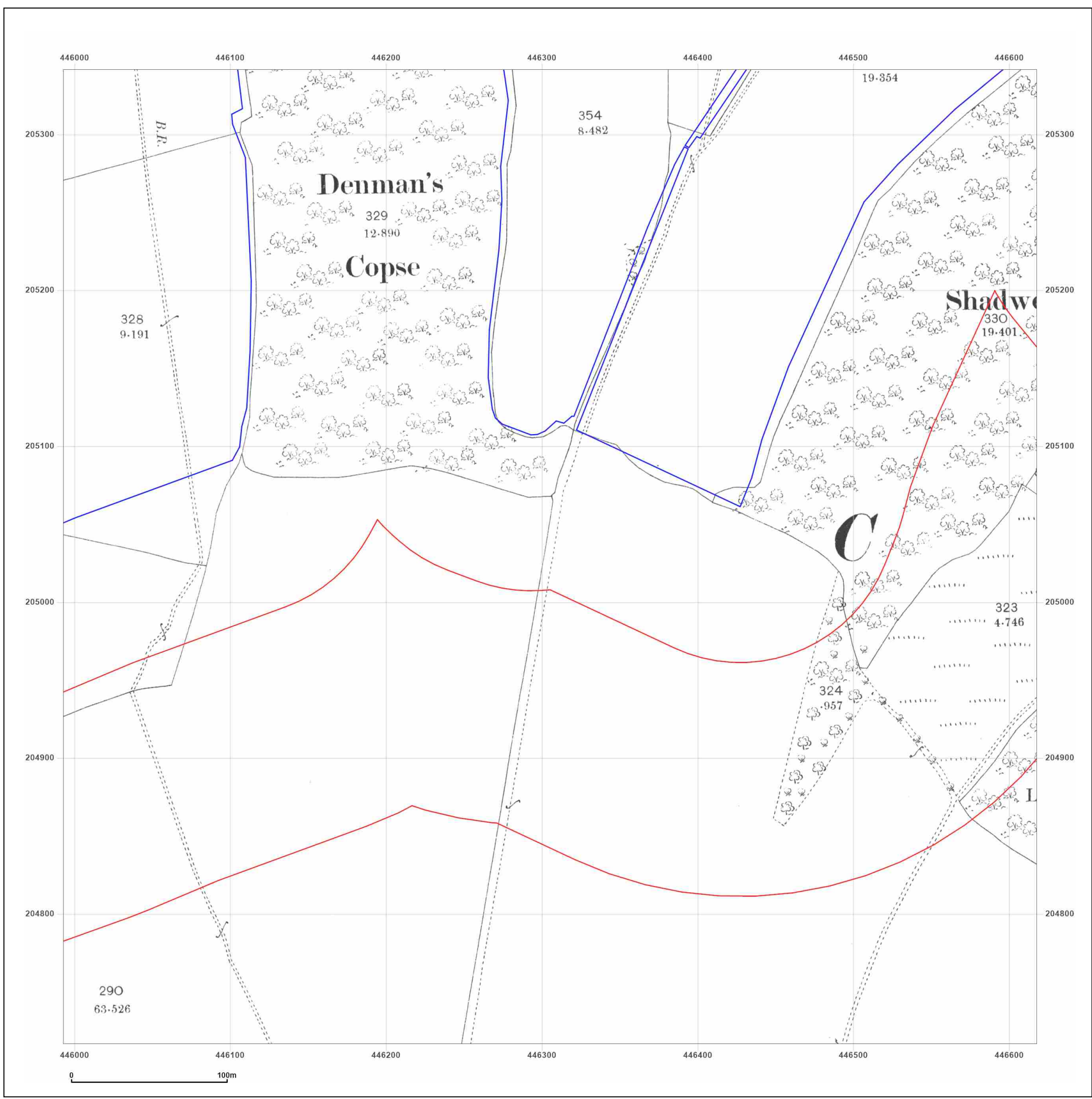


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Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_3_1
Grid Ref: 446305, 205029

Map Name: County Series

Map date: 1913

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1913
 Revised 1913
 Edition N/A
 Copyright N/A
 Levelled N/A

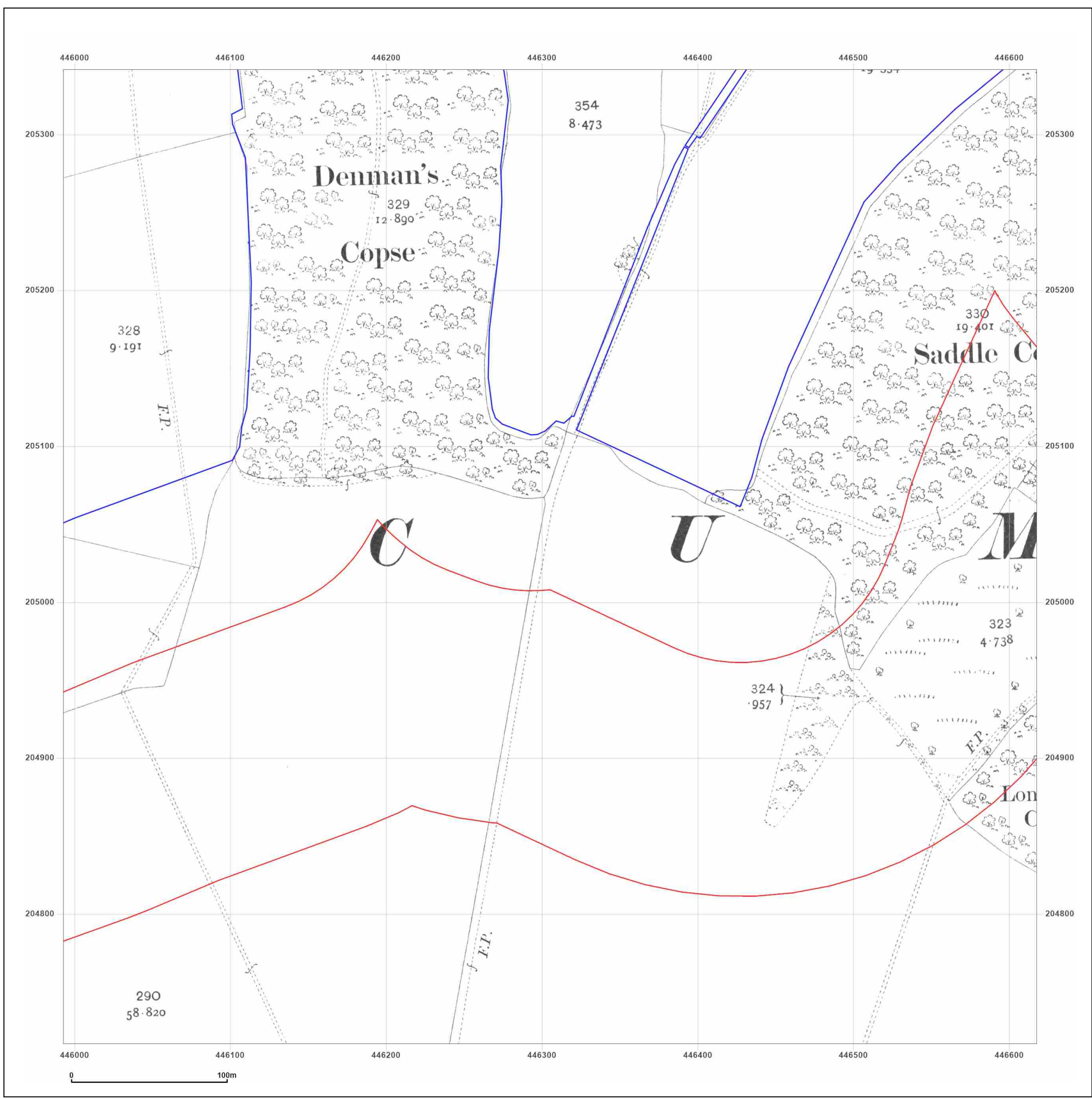


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Map legend available at:



Site Details:

South - BM Solar

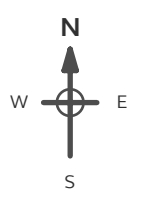
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Report Ref: GSIP-2022-12757-10511_LS_3_1
Grid Ref: 446305, 205029

Map Name: County Series

Map date: 1937

Scale: 1:2,500

Printed at: 1:2,500



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

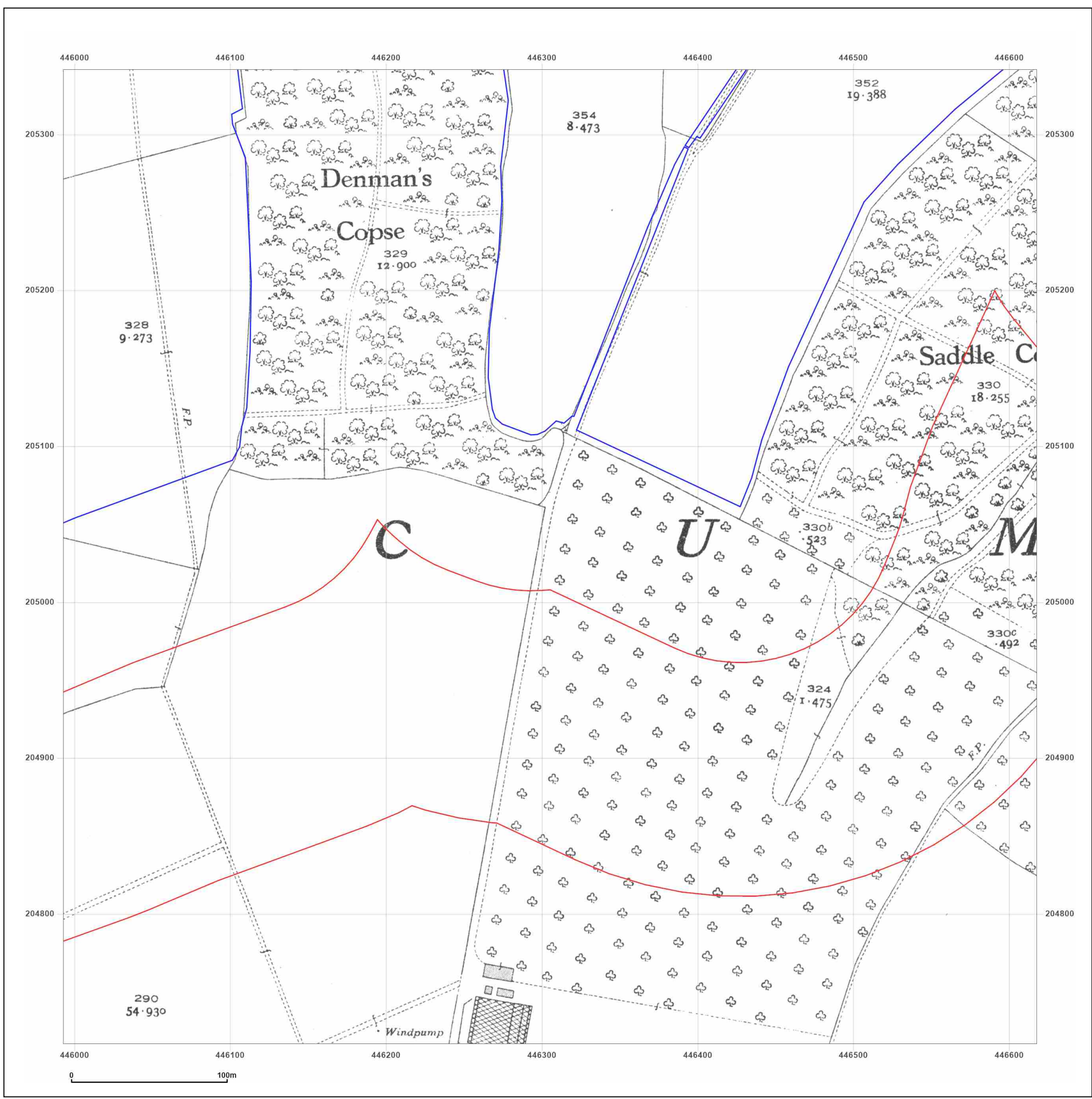


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_3_1
Grid Ref: 446305, 205029

Map Name: National Grid

Map date: 1970-1971

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1969
 Revised 1969
 Edition N/A
 Copyright 1970
 Levelled 1962

Surveyed 1958
 Revised 1969
 Edition N/A
 Copyright 1971
 Levelled 1970

Surveyed 1969
 Revised 1969
 Edition N/A
 Copyright 1970
 Levelled 1962

Surveyed 1965
 Revised 1970
 Edition N/A
 Copyright 1971
 Levelled 1962

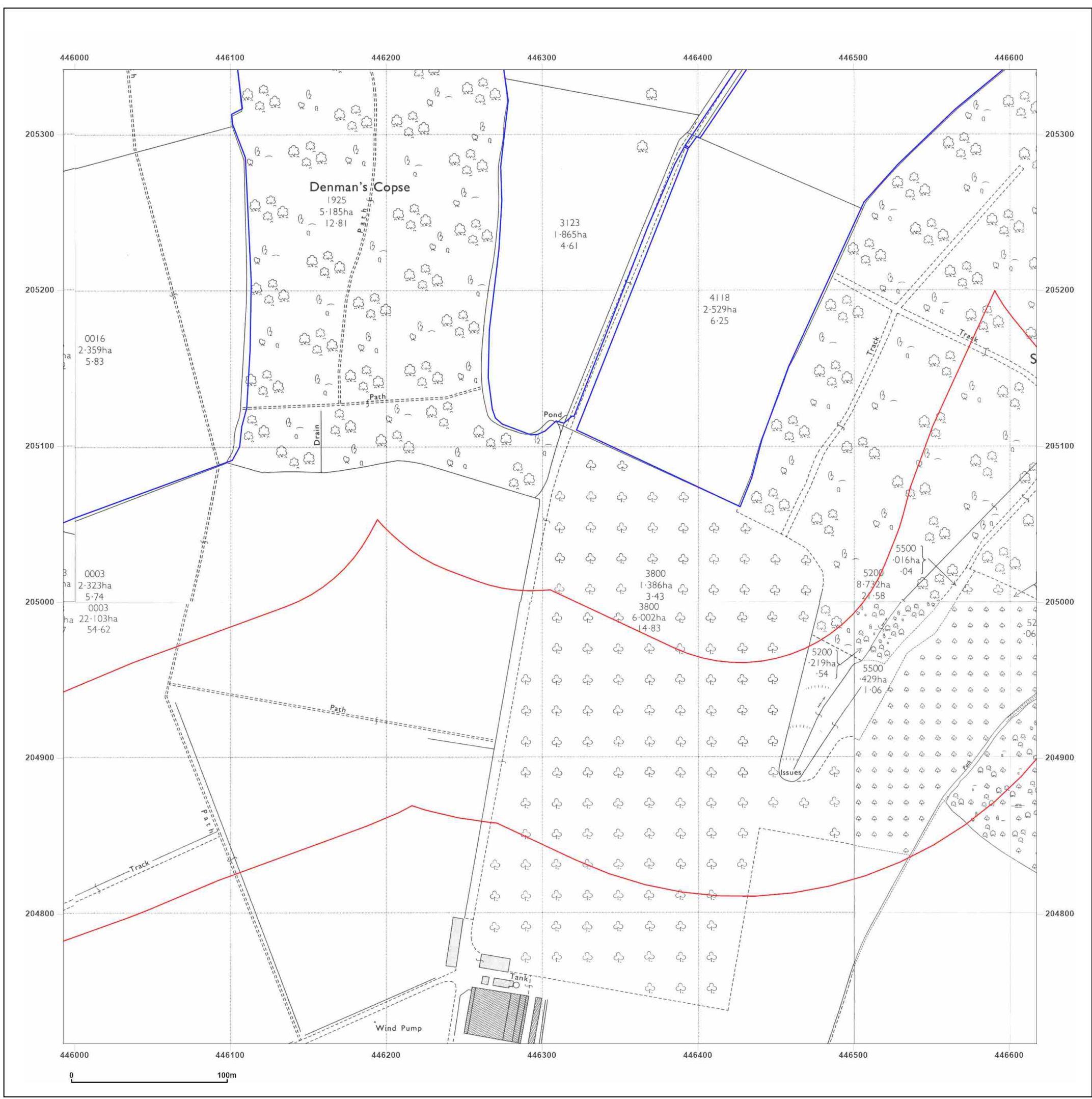


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Production date: 24 May 2022


Map legend available at:



Site Details:
 South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_3_1
Grid Ref: 446305, 205029

Map Name: National Grid
Map date: 1970-1971
Scale: 1:2,500
Printed at: 1:2,500



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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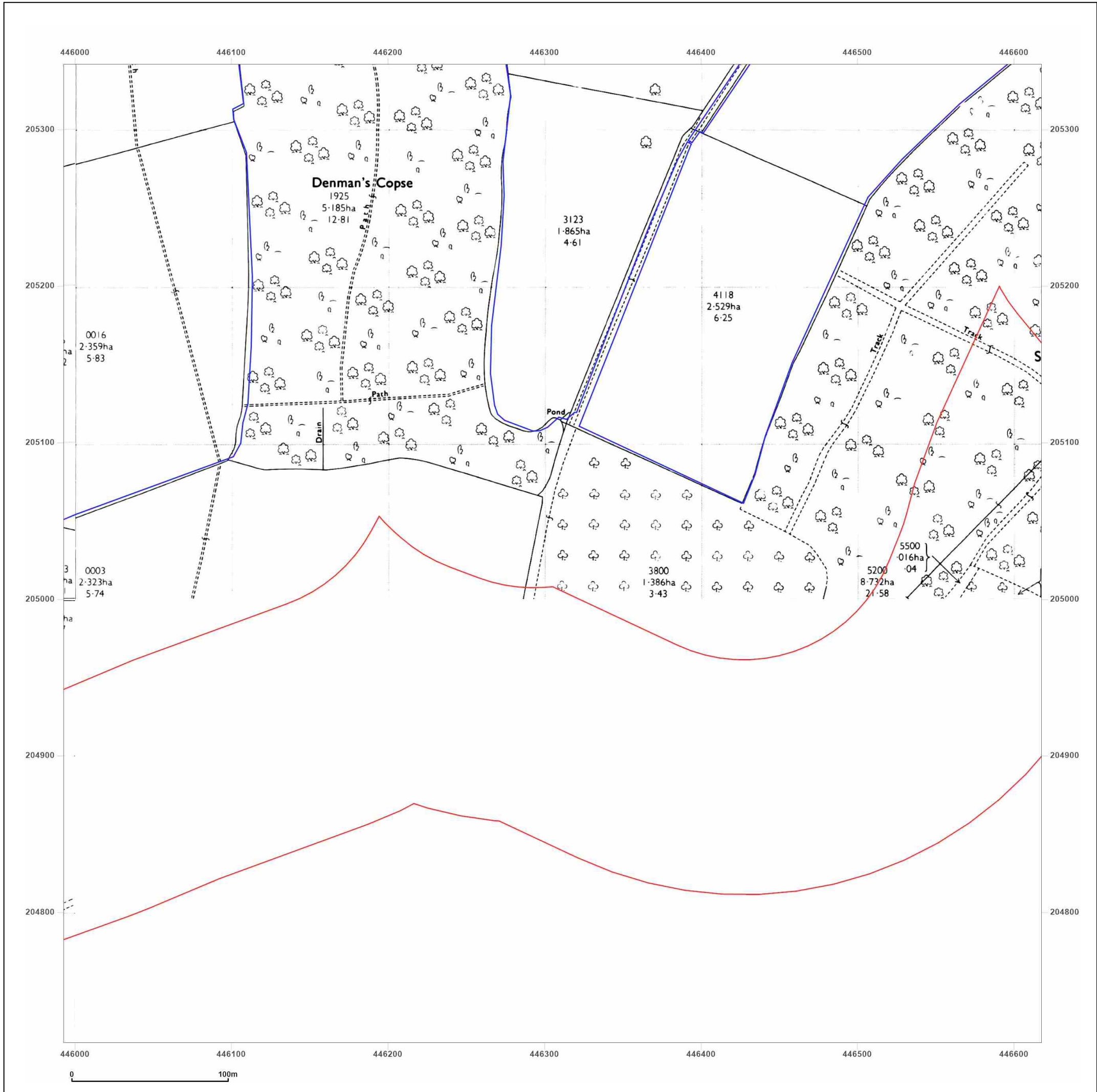


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Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_3_1
Grid Ref: 446305, 205029

Map Name: National Grid

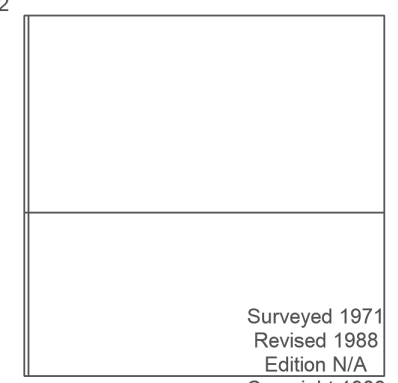
Map date: 1986-1988

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1962
 Revised 1986
 Edition N/A
 Copyright 1986
 Levelled 1962



Surveyed 1971
 Revised 1988
 Edition N/A
 Copyright 1988
 Levelled 1971

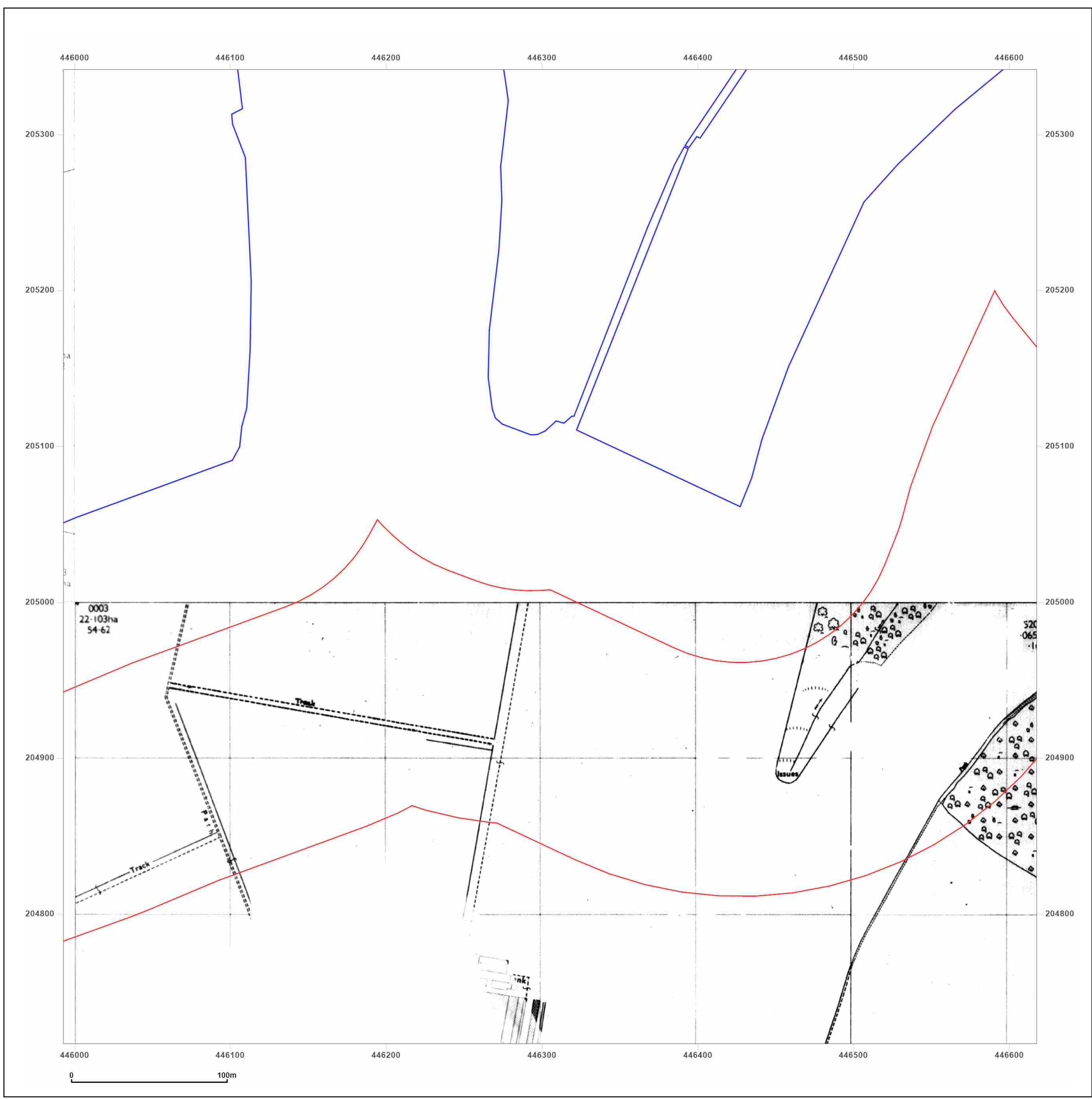


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_3_1
Grid Ref: 446305, 205029

Map Name: National Grid

Map date: 1989-1994

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1962 Revised 1992 Edition N/A Copyright 1992 Levelled 1962	Surveyed 1971 Revised 1992 Edition N/A Copyright 1992 Levelled 1971
Surveyed N/A Revised N/A Edition N/A Copyright 1994 Levelled N/A	Surveyed 1971 Revised 1989 Edition N/A Copyright 1989 Levelled 1971

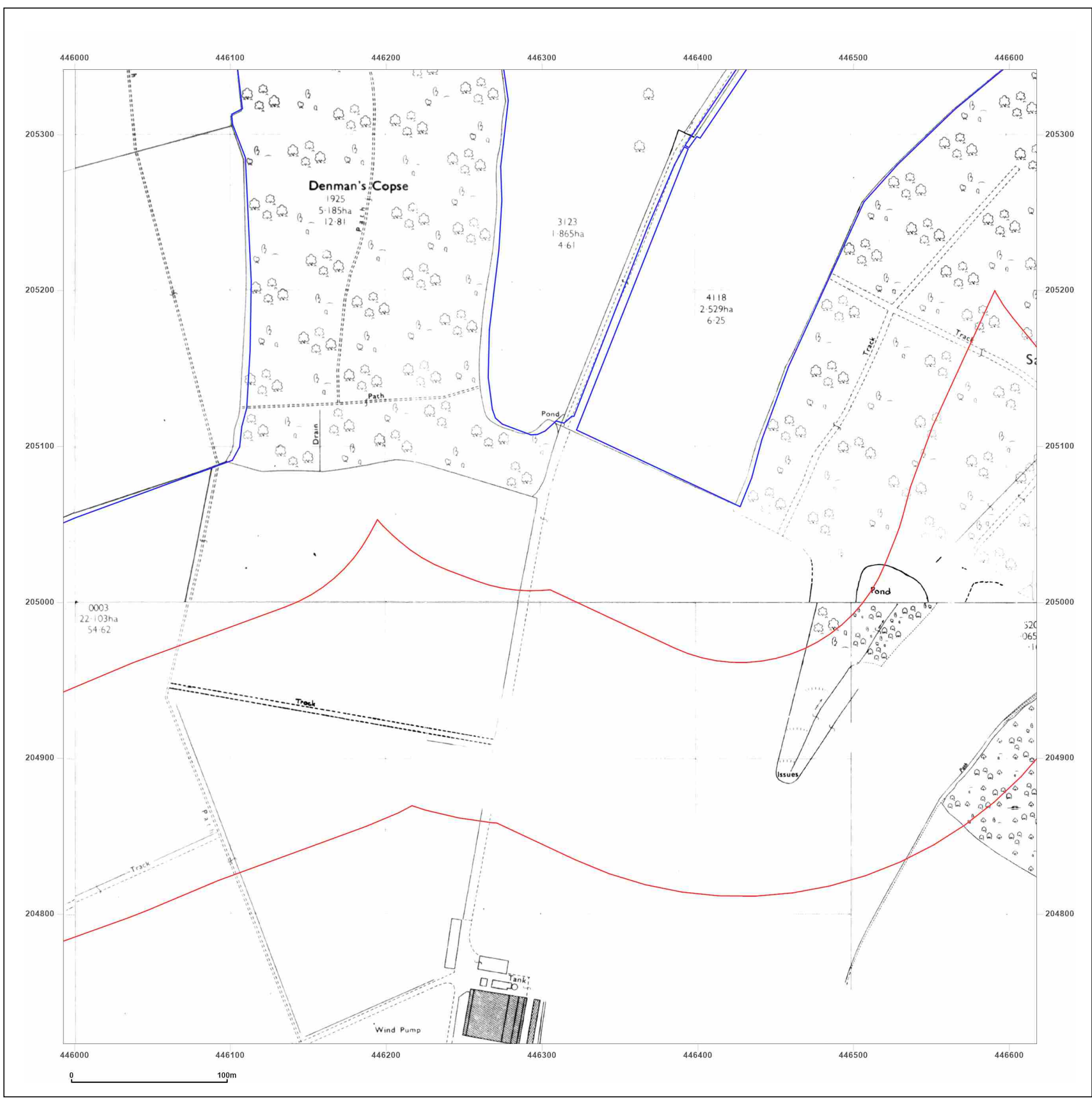


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_3_1
Grid Ref: 446305, 205029

Map Name: National Grid

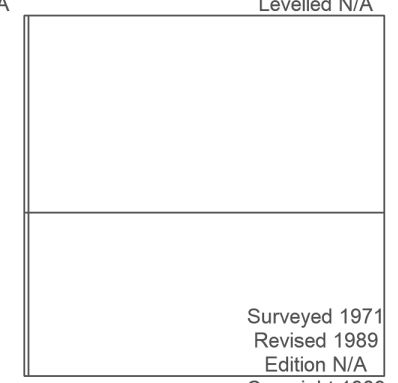
Map date: 1989-1994

Scale: 1:2,500

Printed at: 1:2,500



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



Surveyed 1971
Revised 1989
Edition N/A
Copyright 1989
Levelled 1971

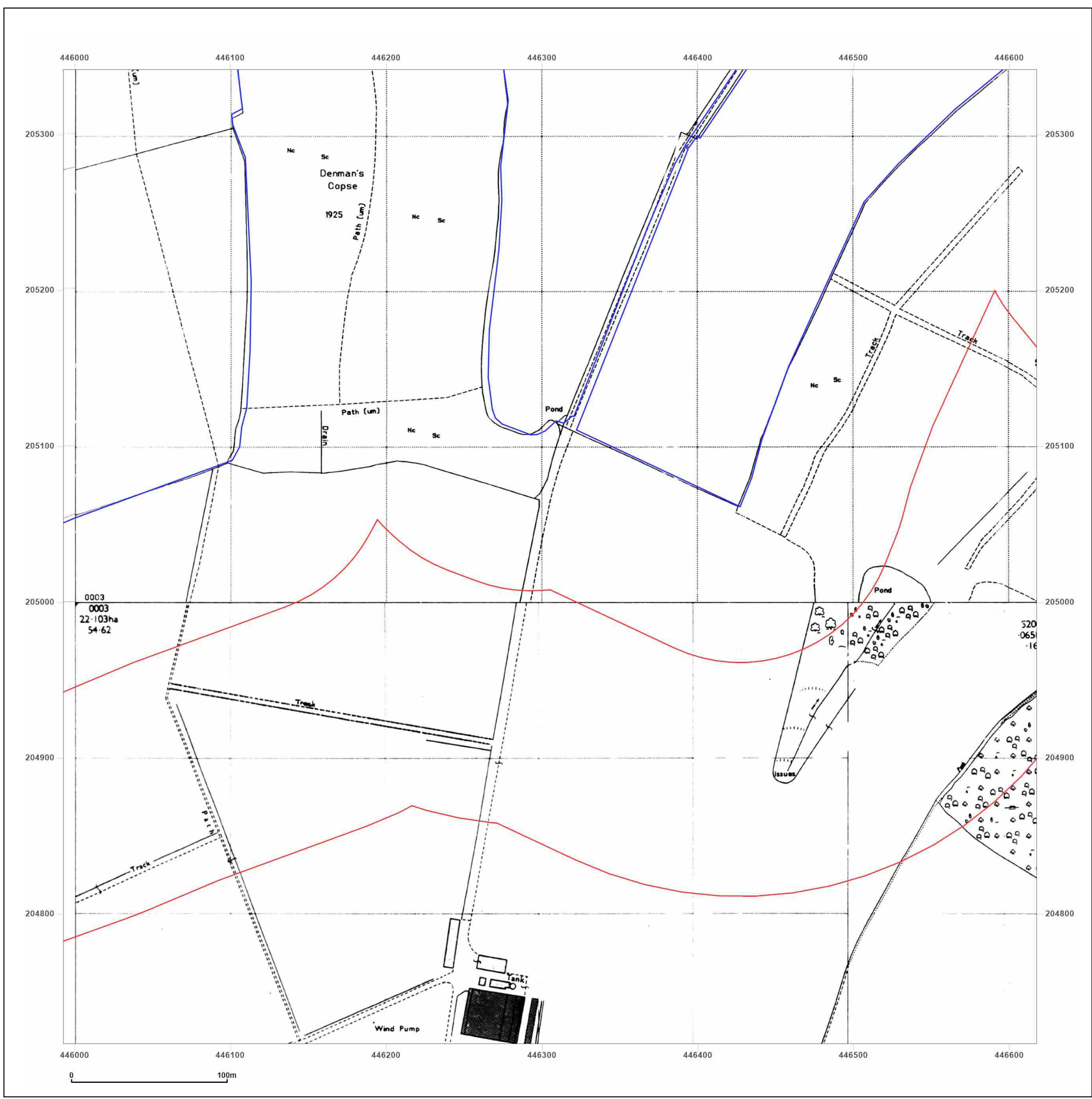


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_3_2
Grid Ref: 446305, 205654

Map Name: County Series

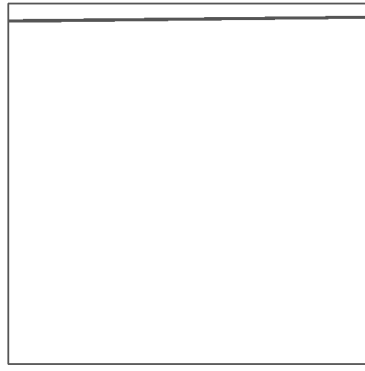
Map date: 1876

Scale: 1:2,500

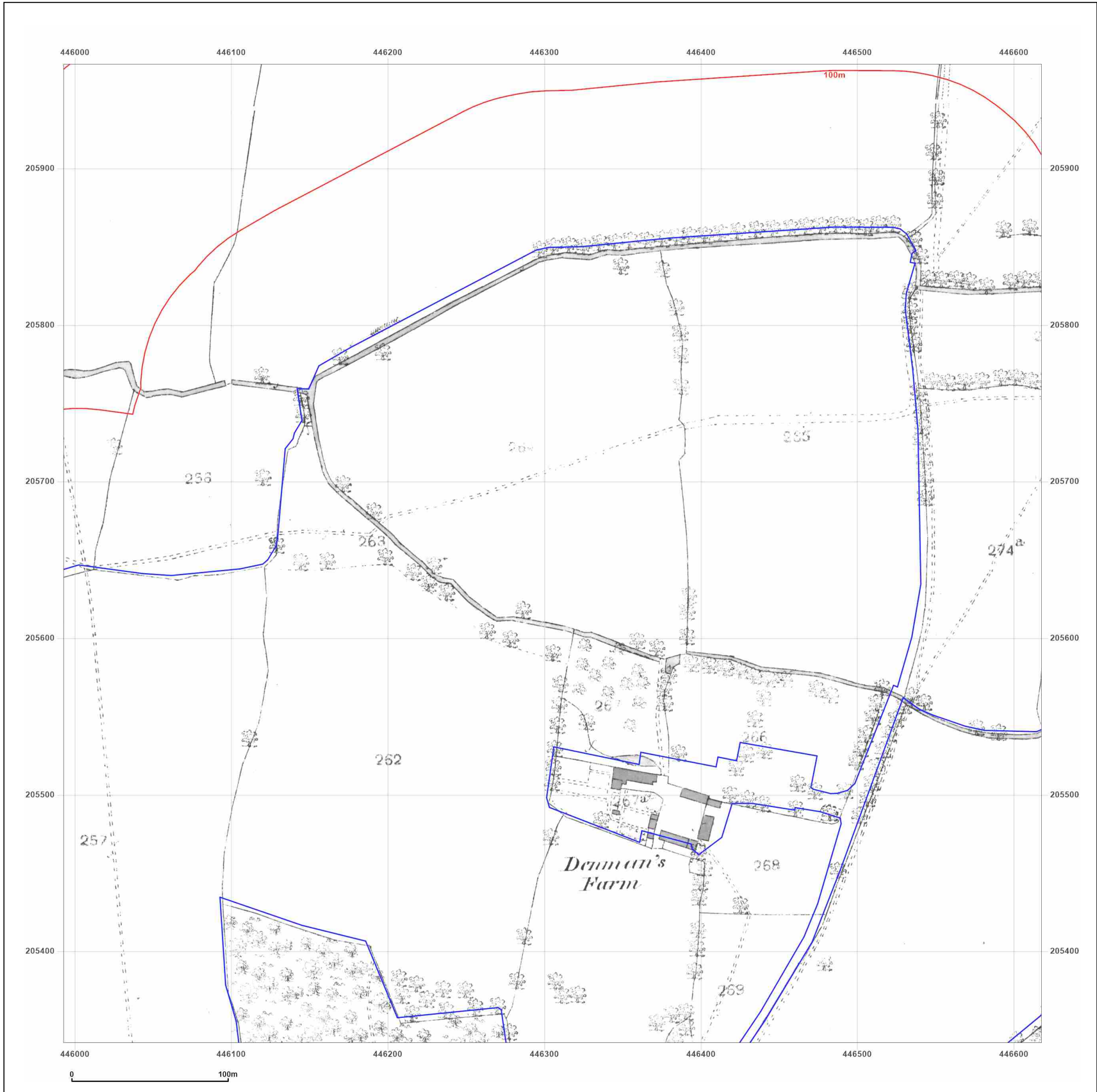
Printed at: 1:2,500



Surveyed 1876
 Revised 1876
 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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Map legend available at:

Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_3_2
Grid Ref: 446305, 205654

Map Name: County Series

Map date: 1899

Scale: 1:2,500

Printed at: 1:2,500



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

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

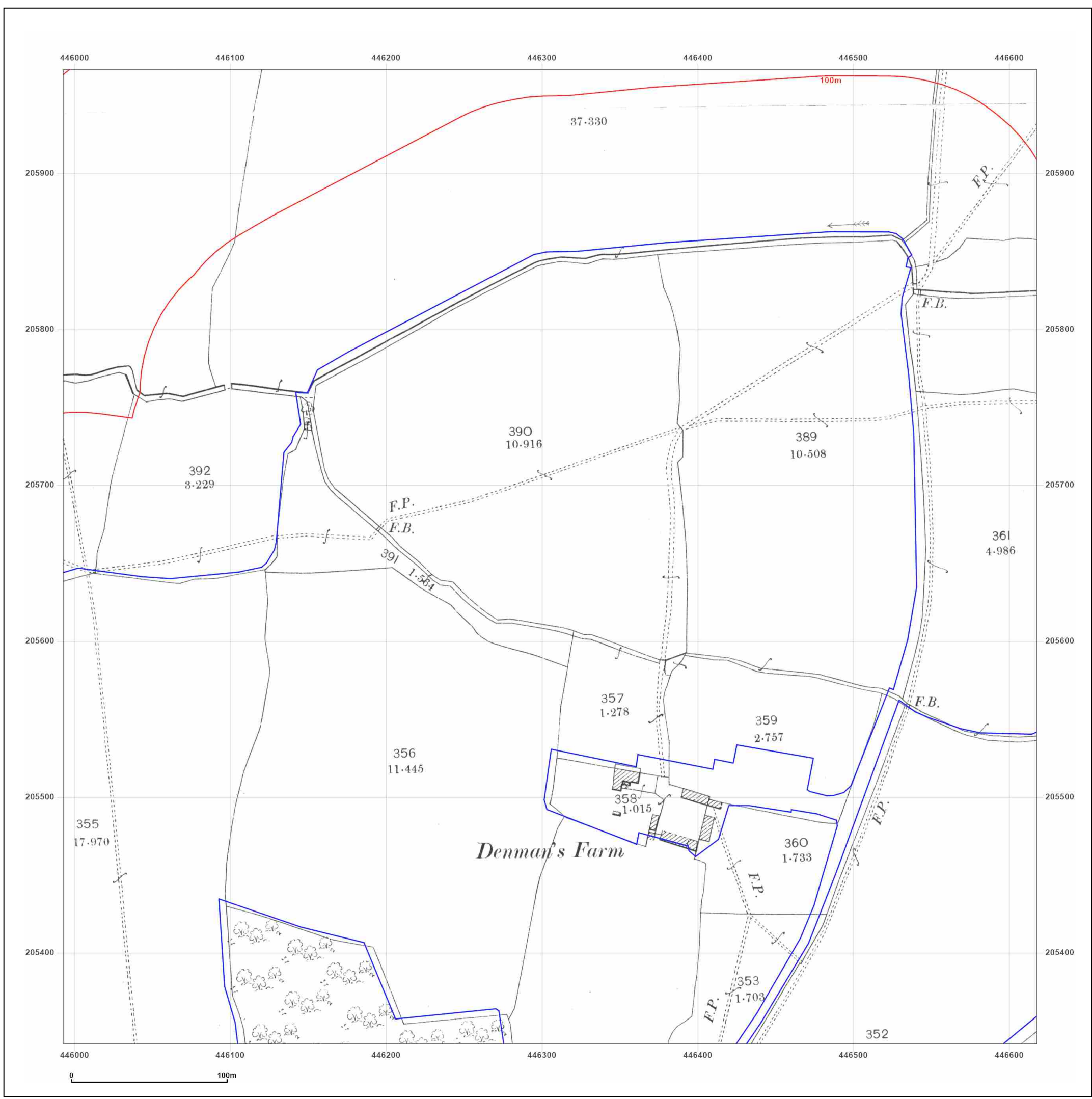


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Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_3_2
Grid Ref: 446305, 205654

Map Name: County Series

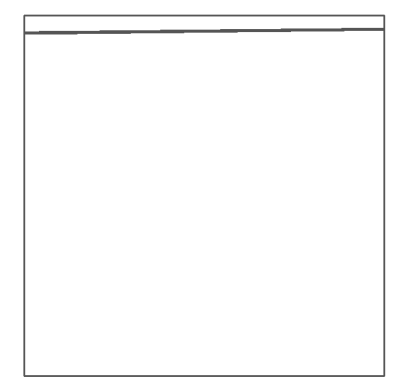
Map date: 1913

Scale: 1:2,500

Printed at: 1:2,500



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 Revised 1913
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed 1913
 Revised 1913
 Edition N/A
 Copyright N/A
 Levelled N/A

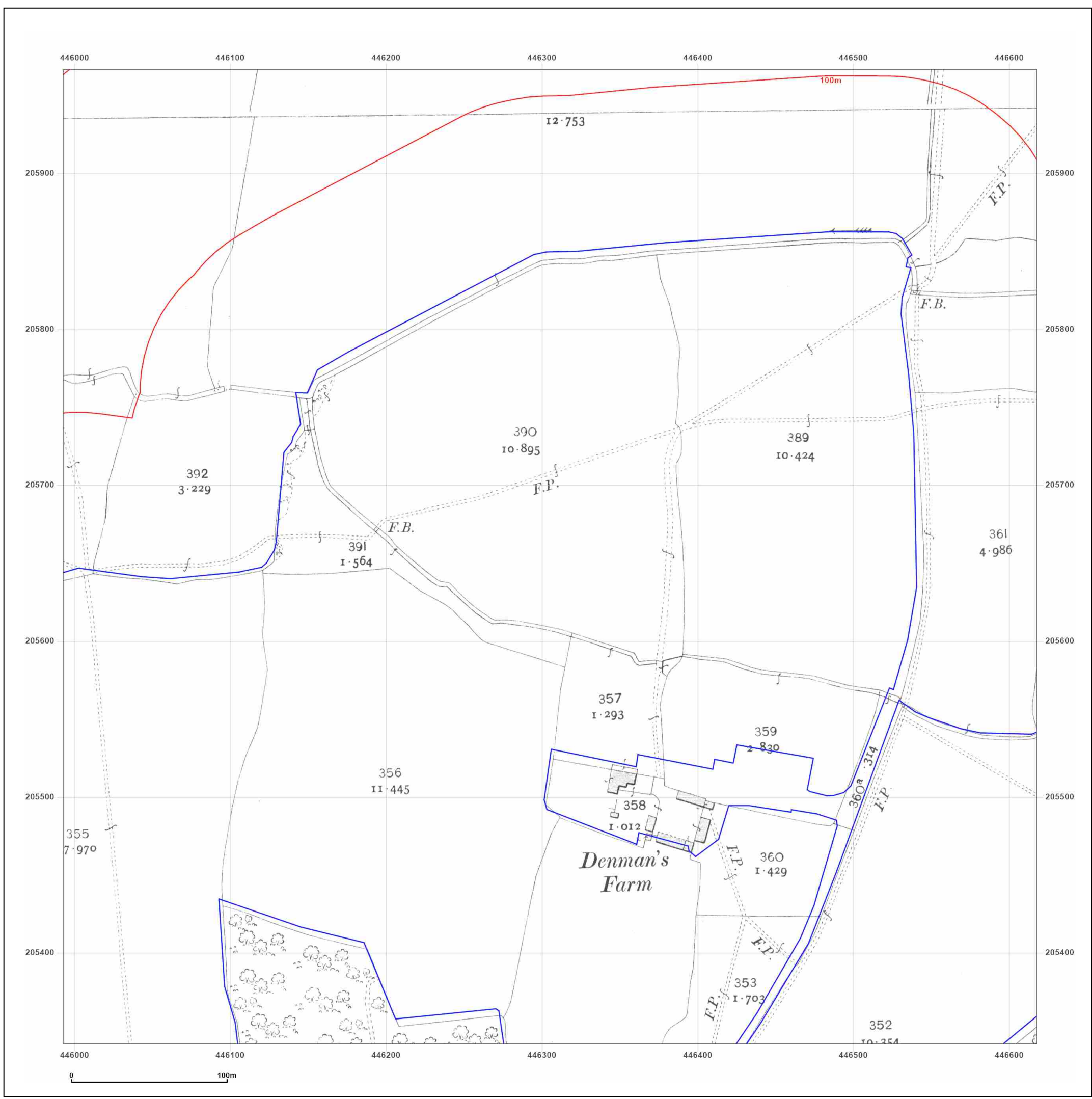


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

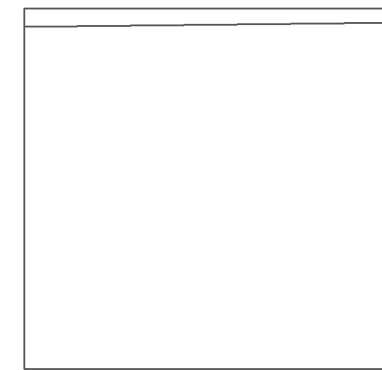
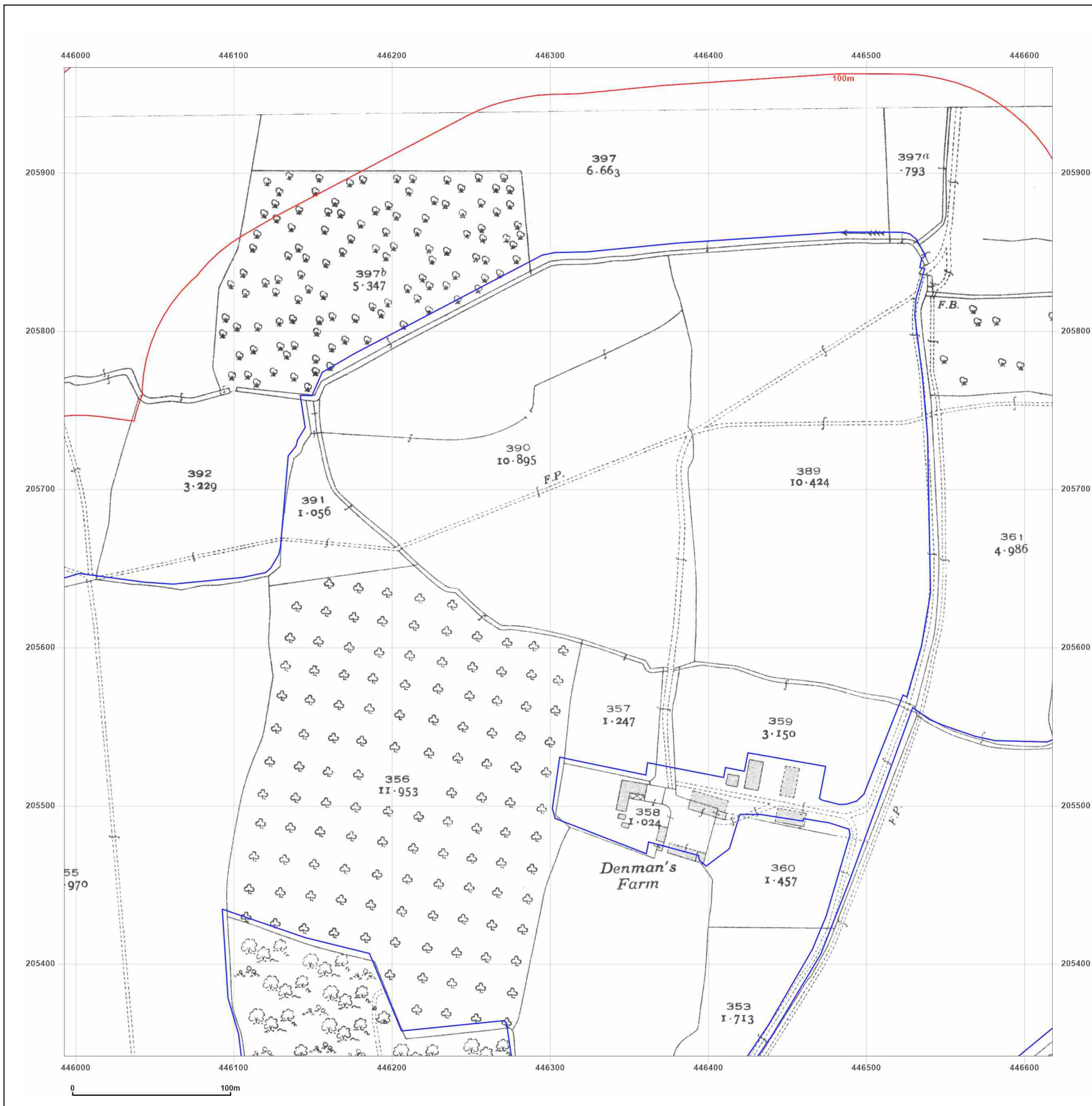
Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_3_2
Grid Ref: 446305, 205654

Map Name: County Series

Map date: 1937

Scale: 1:2,500

Printed at: 1:2,500



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:

Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_3_2
Grid Ref: 446305, 205654

Map Name: National Grid

Map date: 1970-1971

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1969
 Revised 1969
 Edition N/A
 Copyright 1970
 Levelled 1962

Surveyed 1958
 Revised 1969
 Edition N/A
 Copyright 1971
 Levelled 1970

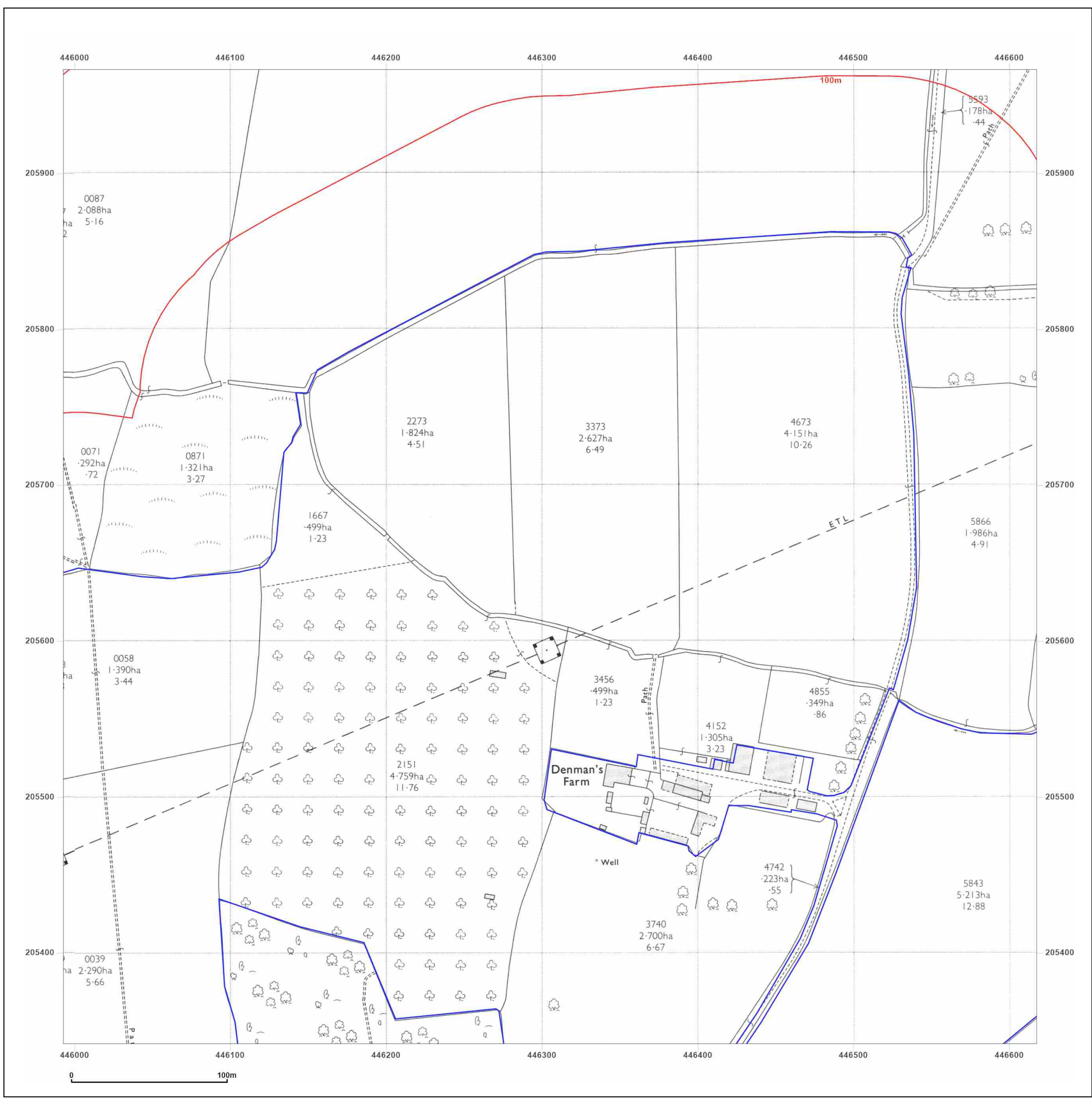


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_3_2
Grid Ref: 446305, 205654

Map Name: National Grid

Map date: 1970-1971

Scale: 1:2,500

Printed at: 1:2,500



<p>Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A</p>	<p>Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A</p>
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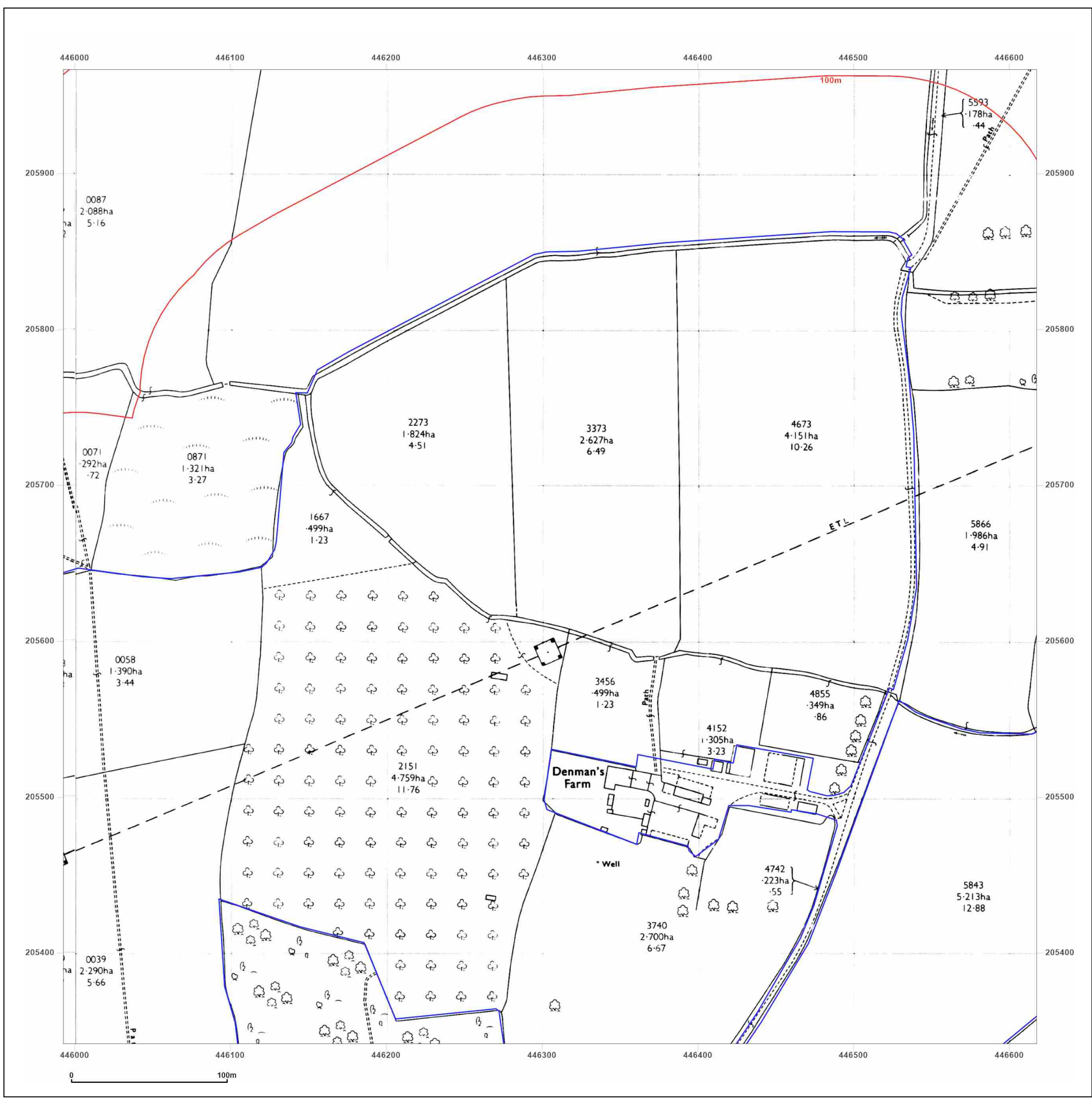


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Production date: 24 May 2022

Map legend available at: [REDACTED]



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_3_2
Grid Ref: 446305, 205654

Map Name: National Grid

Map date: 1992

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1962 Revised 1992 Edition N/A Copyright 1992 Levelled 1962	Surveyed 1971 Revised 1992 Edition N/A Copyright 1992 Levelled 1971
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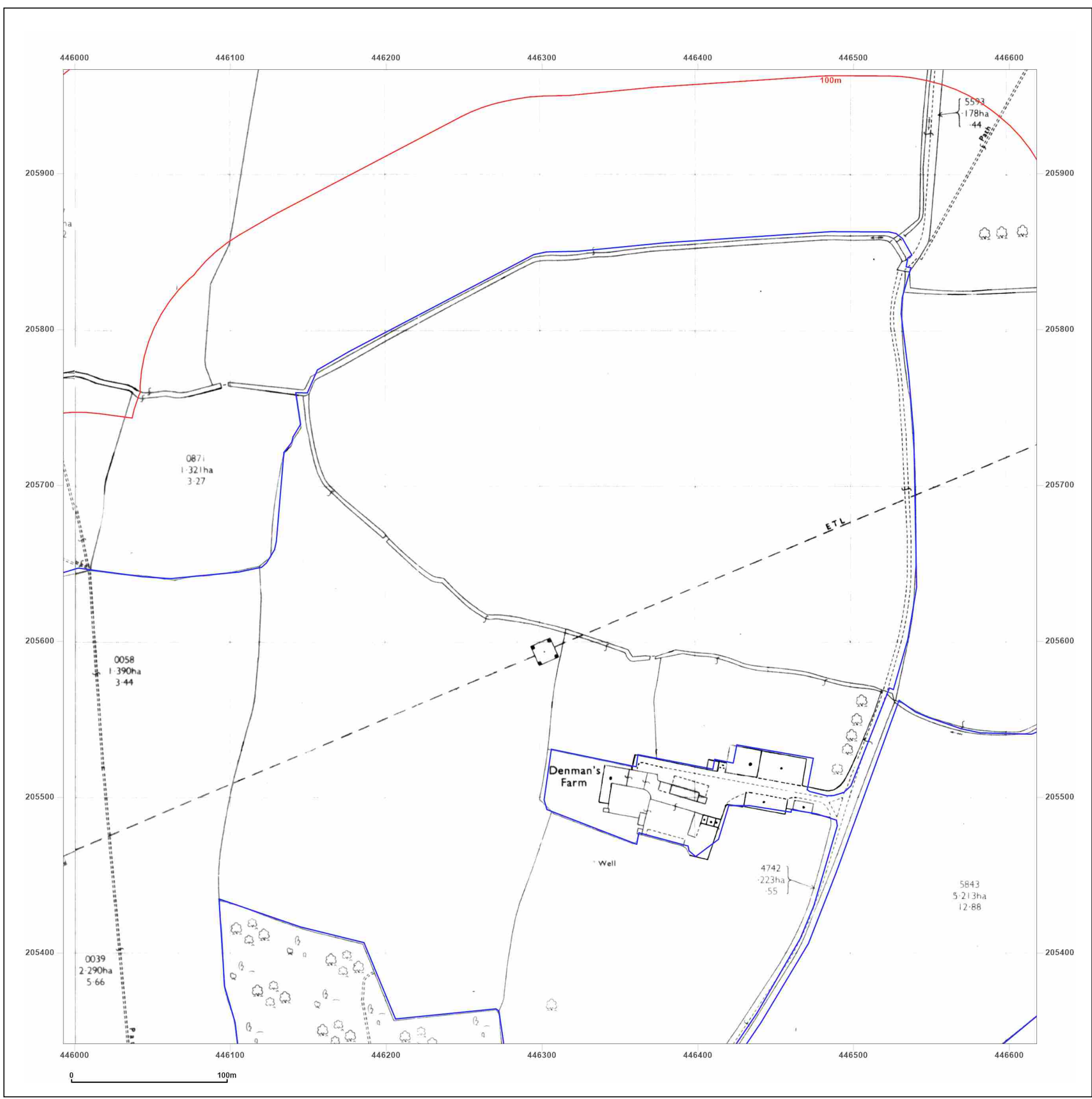


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_3_2
Grid Ref: 446305, 205654

Map Name: National Grid

Map date: 1994

Scale: 1:2,500

Printed at: 1:2,500



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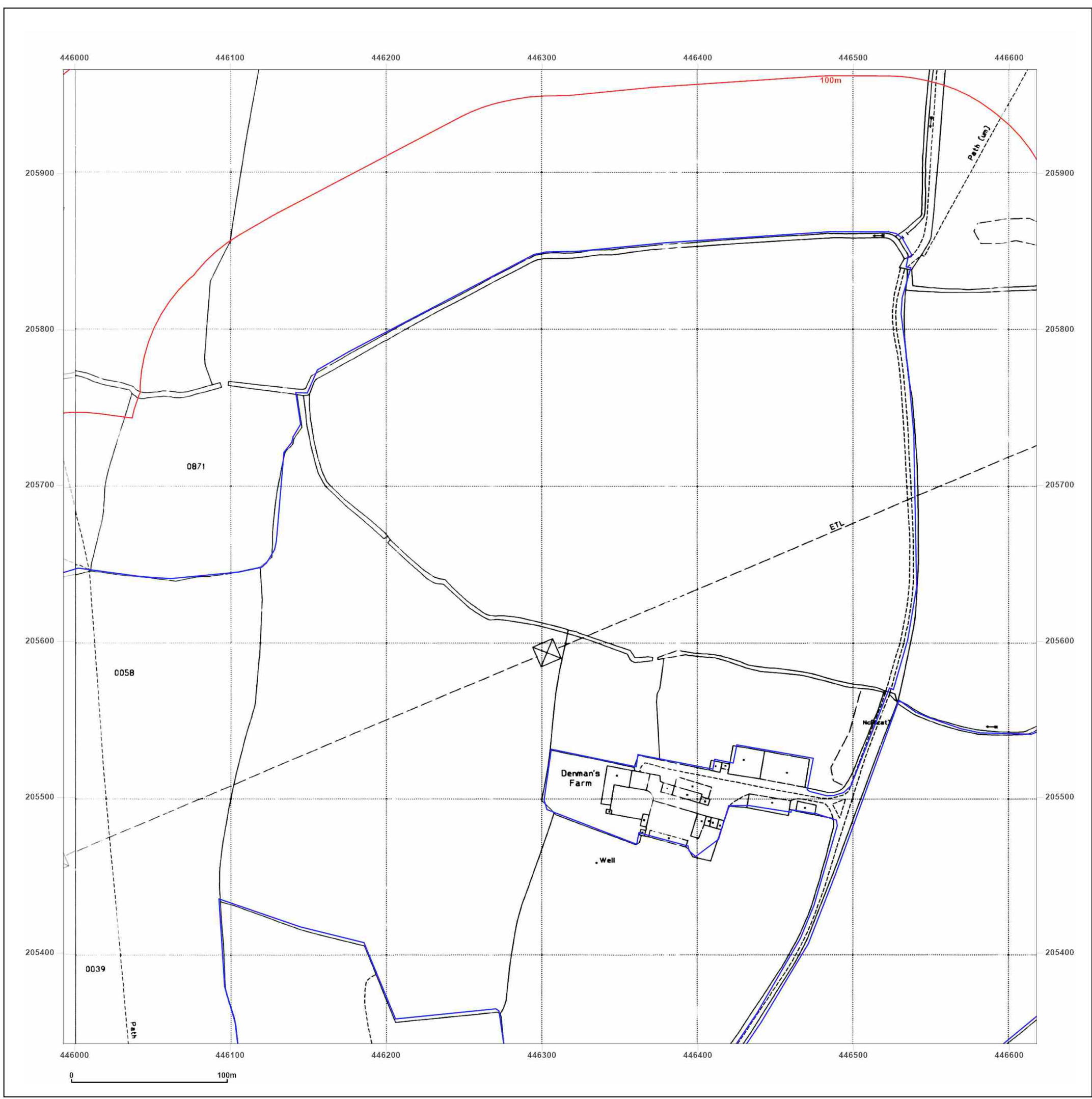


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_4_1
Grid Ref: 446930, 205029

Map Name: County Series

Map date: 1876

Scale: 1:2,500

Printed at: 1:2,500



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

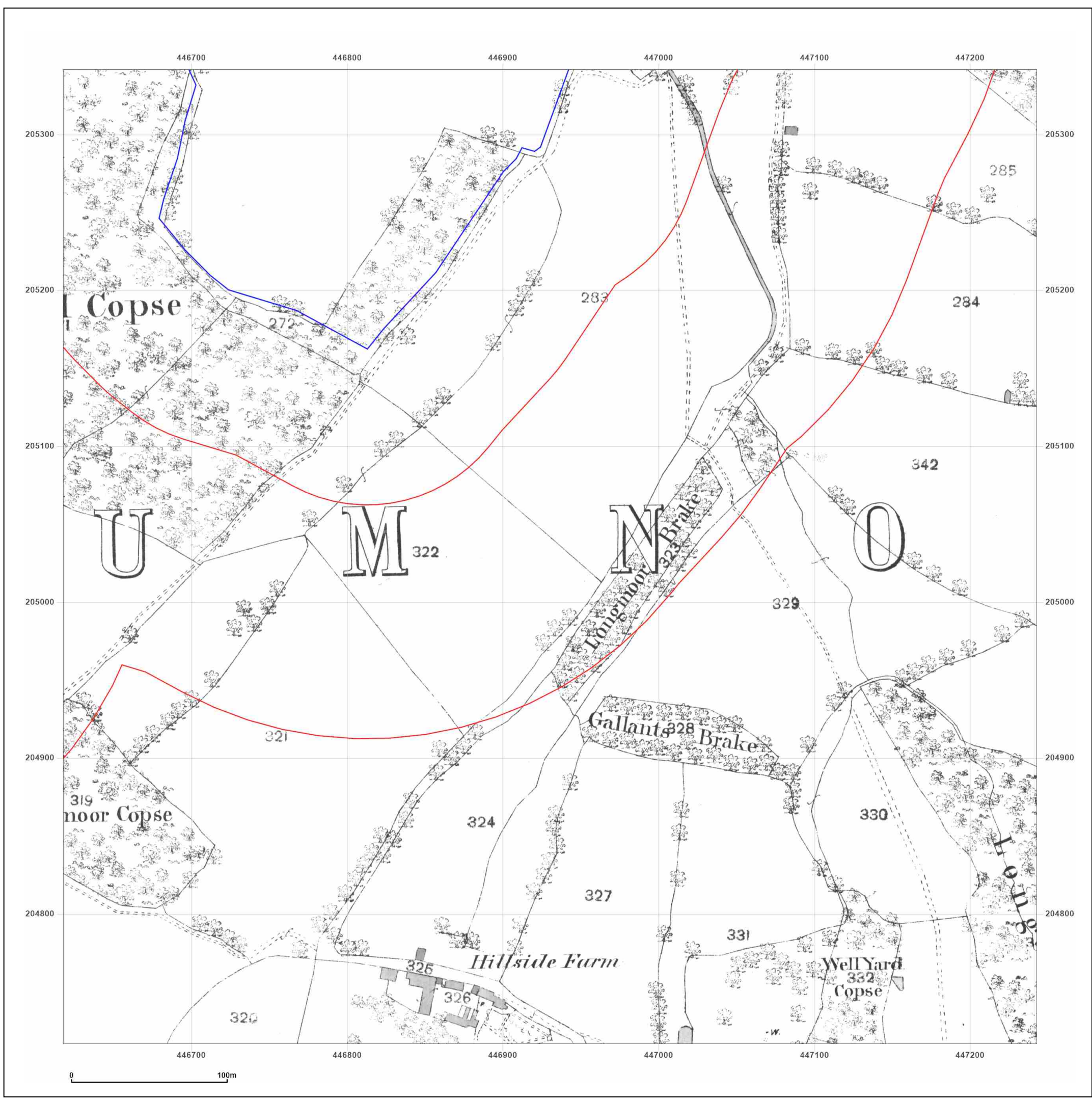


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_4_1
Grid Ref: 446930, 205029

Map Name: County Series

Map date: 1899

Scale: 1:2,500

Printed at: 1:2,500



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

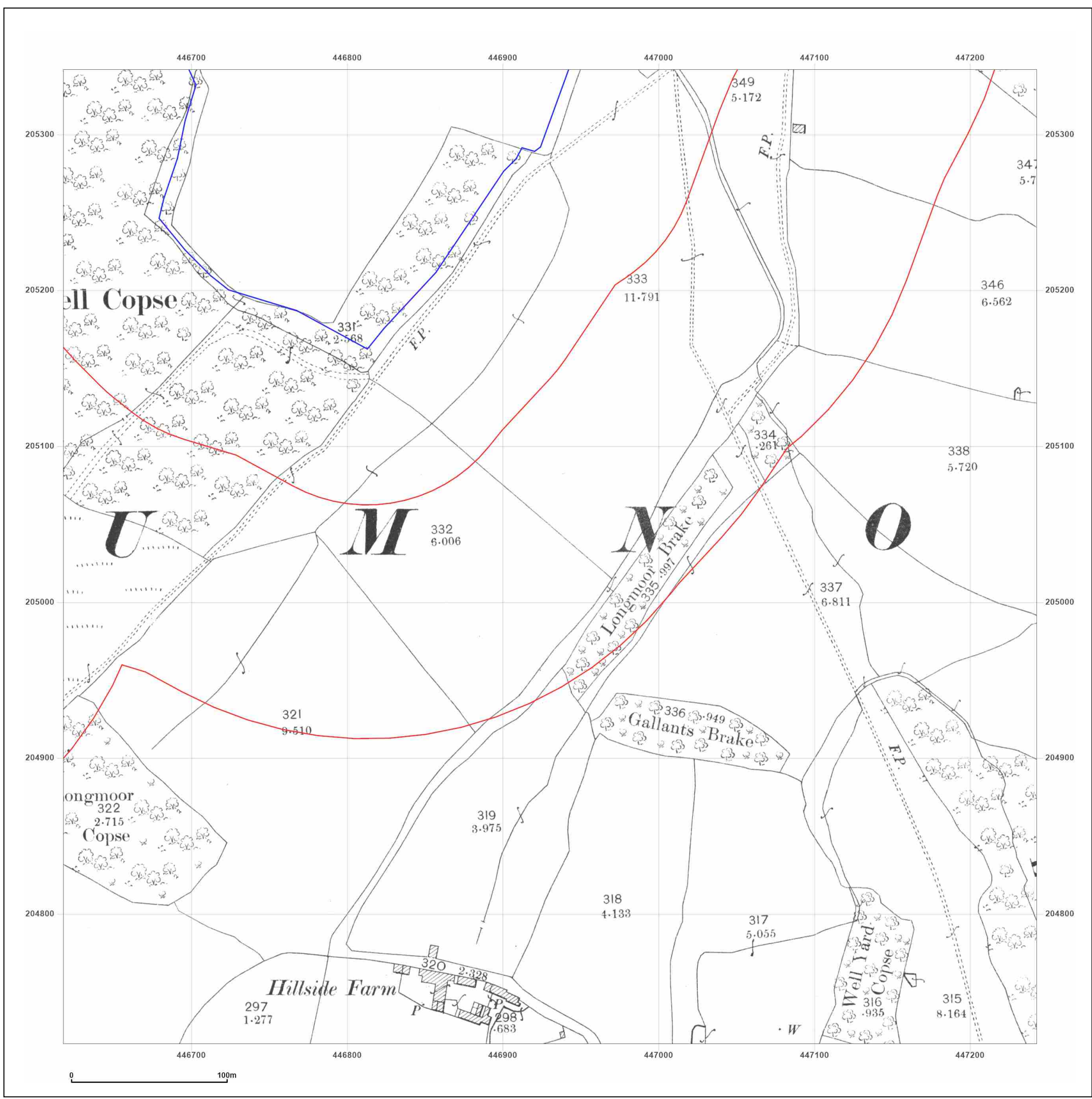


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_4_1
Grid Ref: 446930, 205029

Map Name: County Series

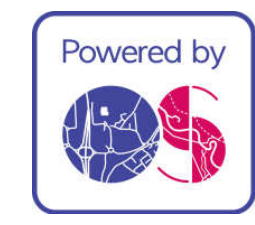
Map date: 1913

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1913
 Revised 1913
 Edition N/A
 Copyright N/A
 Levelled N/A

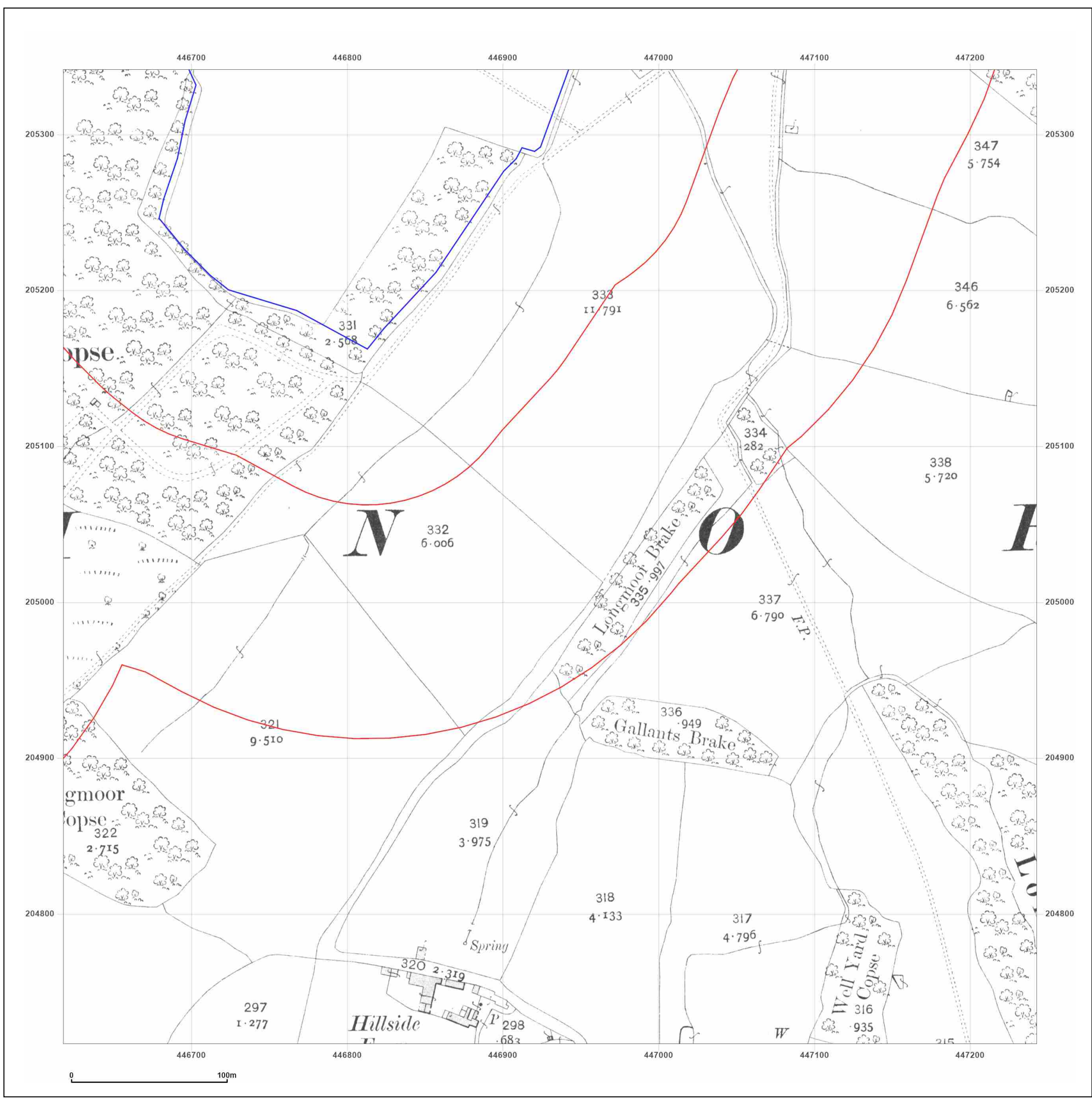


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_4_1
Grid Ref: 446930, 205029

Map Name: County Series

Map date: 1937

Scale: 1:2,500

Printed at: 1:2,500



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

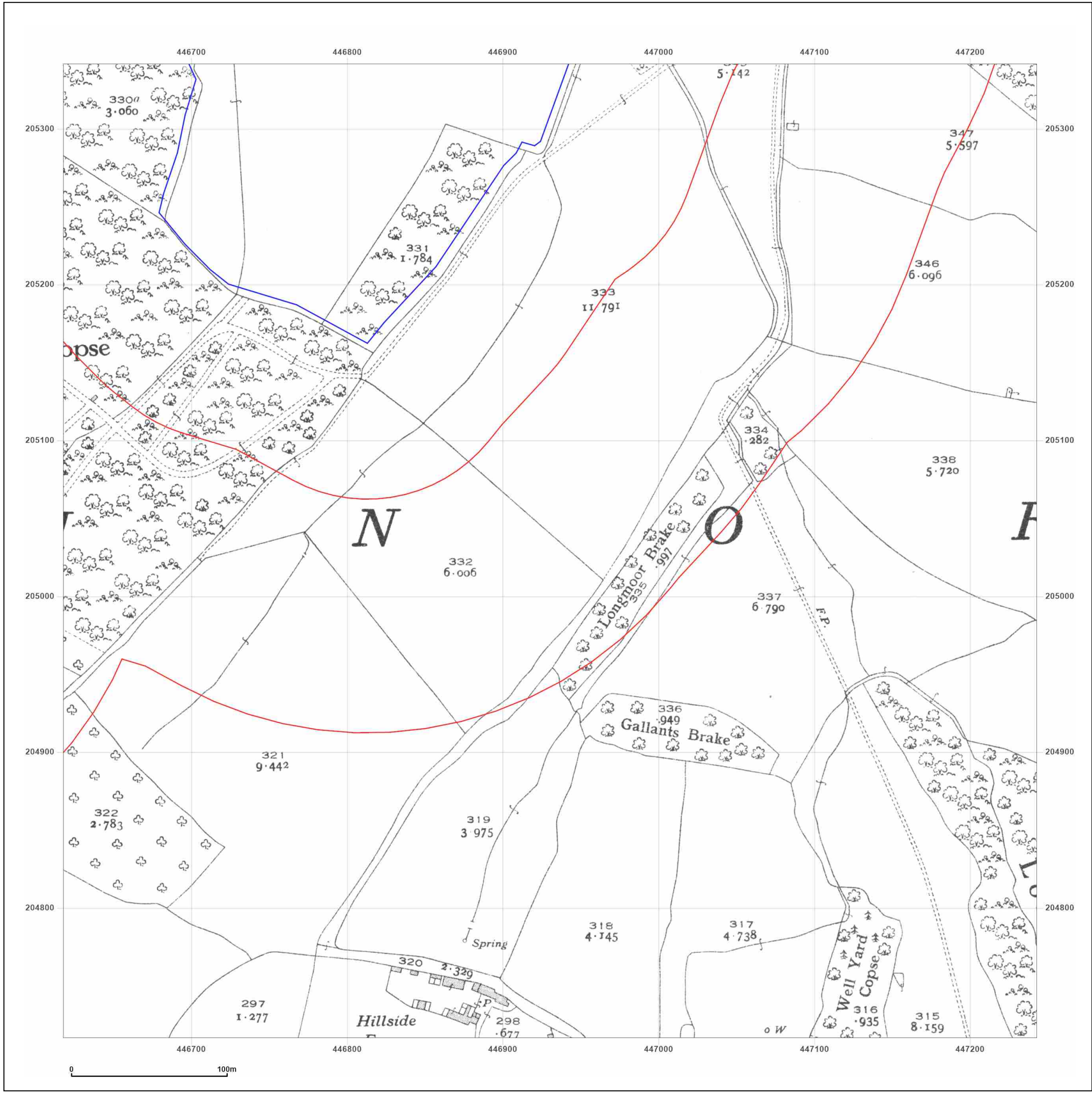


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_4_1
Grid Ref: 446930, 205029

Map Name: National Grid

Map date: 1971

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1958
 Revised 1969
 Edition N/A
 Copyright 1971
 Levelled 1970

Surveyed 1965
 Revised 1970
 Edition N/A
 Copyright 1971
 Levelled 1962

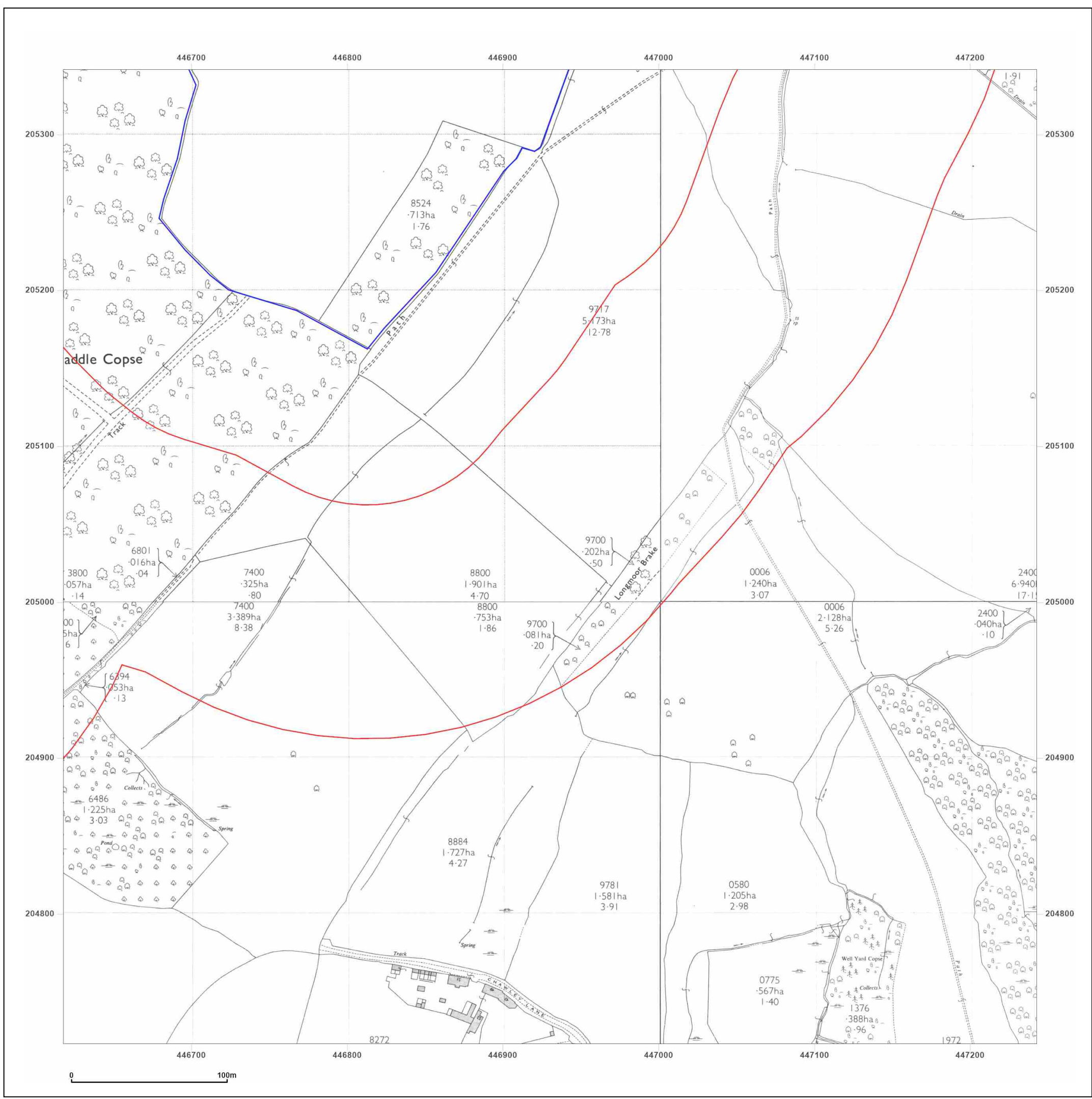


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Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_4_1
Grid Ref: 446930, 205029

Map Name: National Grid

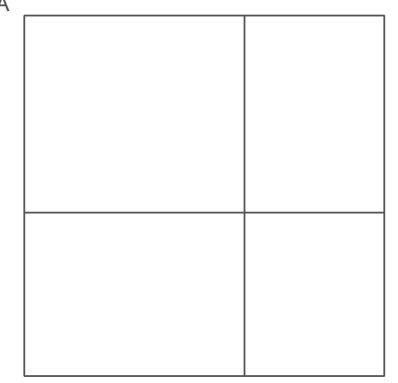
Map date: 1971

Scale: 1:2,500

Printed at: 1:2,500



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

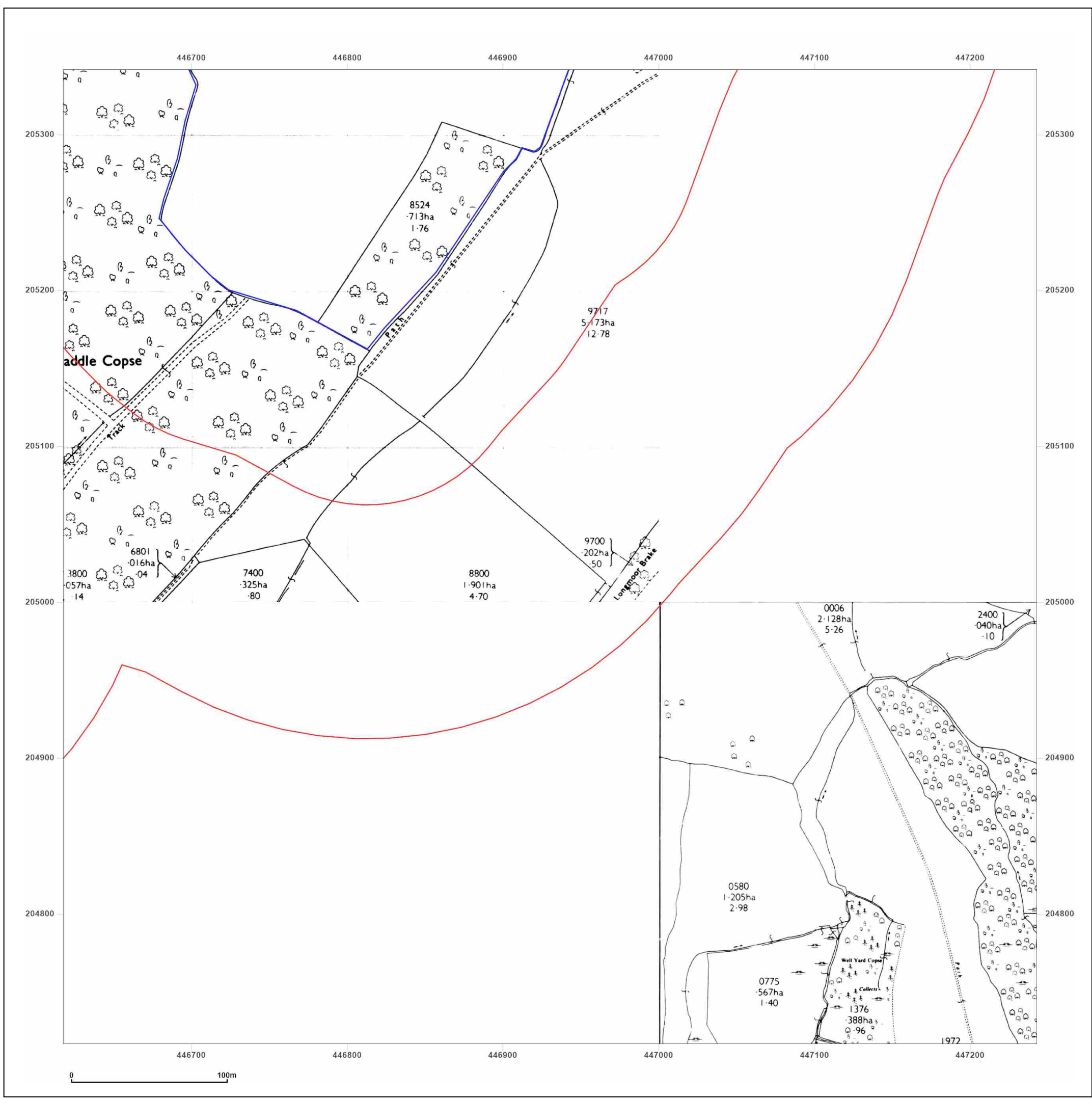


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_4_1
Grid Ref: 446930, 205029

Map Name: National Grid

Map date: 1989

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1971
 Revised 1989
 Edition N/A
 Copyright 1989
 Levelled 1971

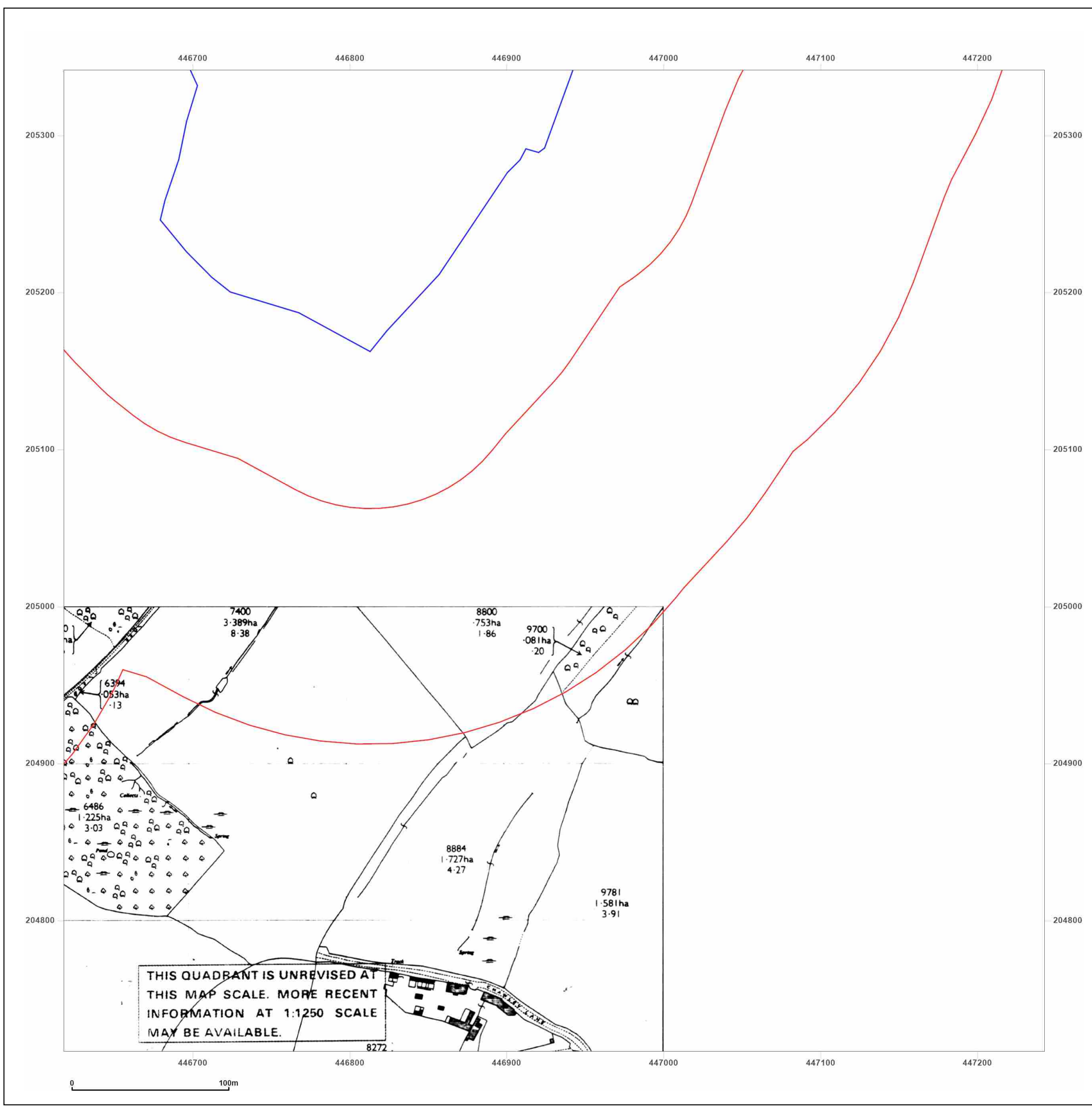


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_4_1
Grid Ref: 446930, 205029

Map Name: National Grid

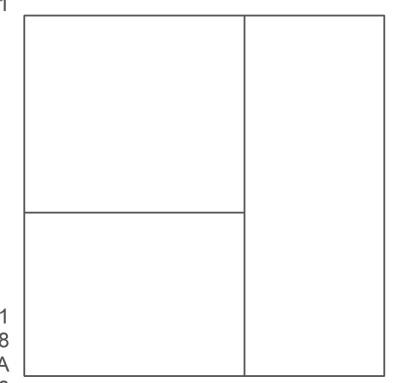
Map date: 1988-1992

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1971
 Revised 1992
 Edition N/A
 Copyright 1992
 Levelled 1971



Surveyed 1971
 Revised 1988
 Edition N/A
 Copyright 1988
 Levelled 1971

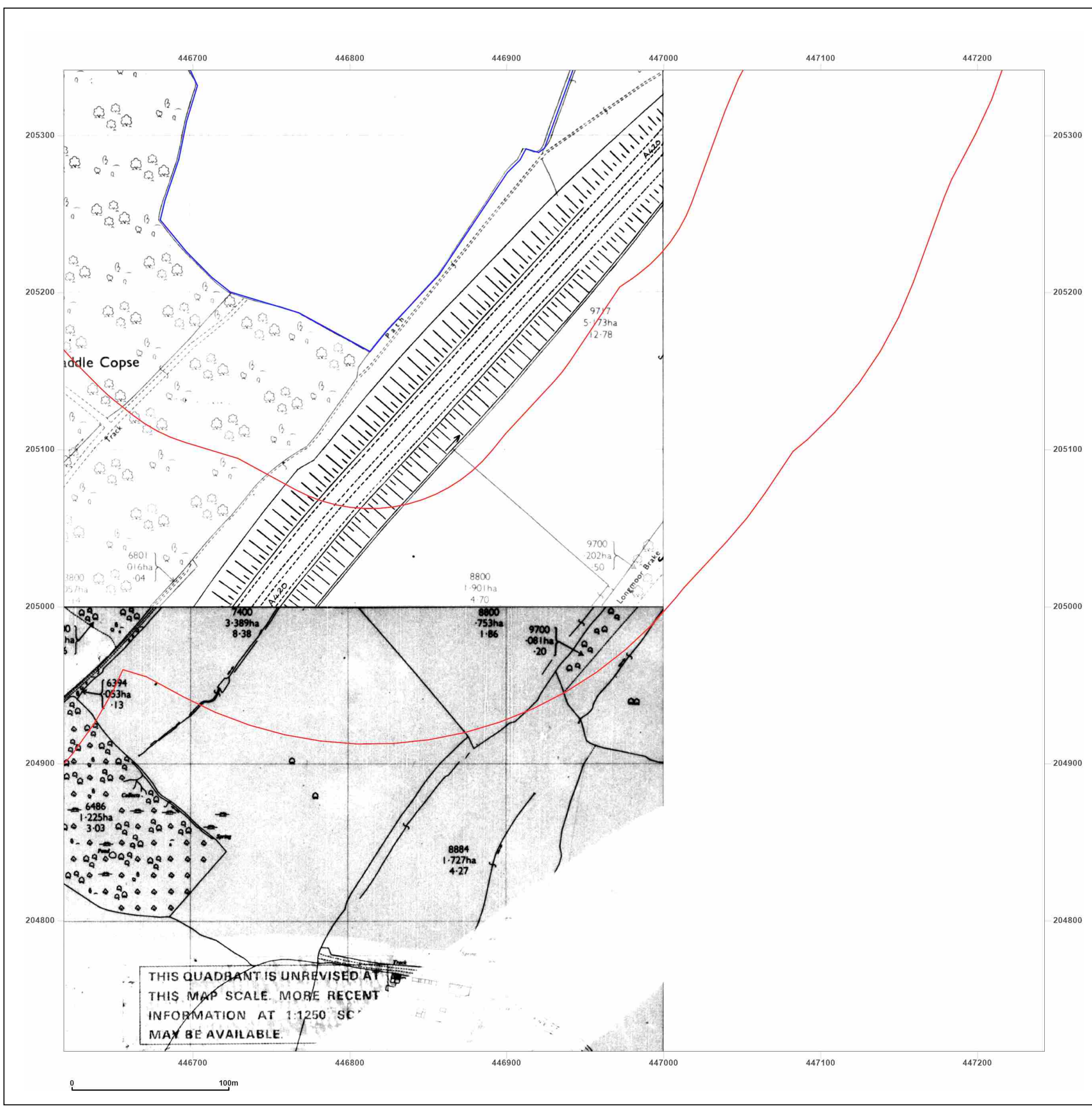


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_4_1
Grid Ref: 446930, 205029

Map Name: National Grid

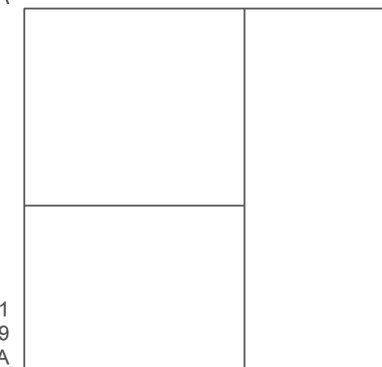
Map date: 1989-1994

Scale: 1:2,500

Printed at: 1:2,500



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



Surveyed 1971
 Revised 1989
 Edition N/A
 Copyright 1989
 Levelled 1971

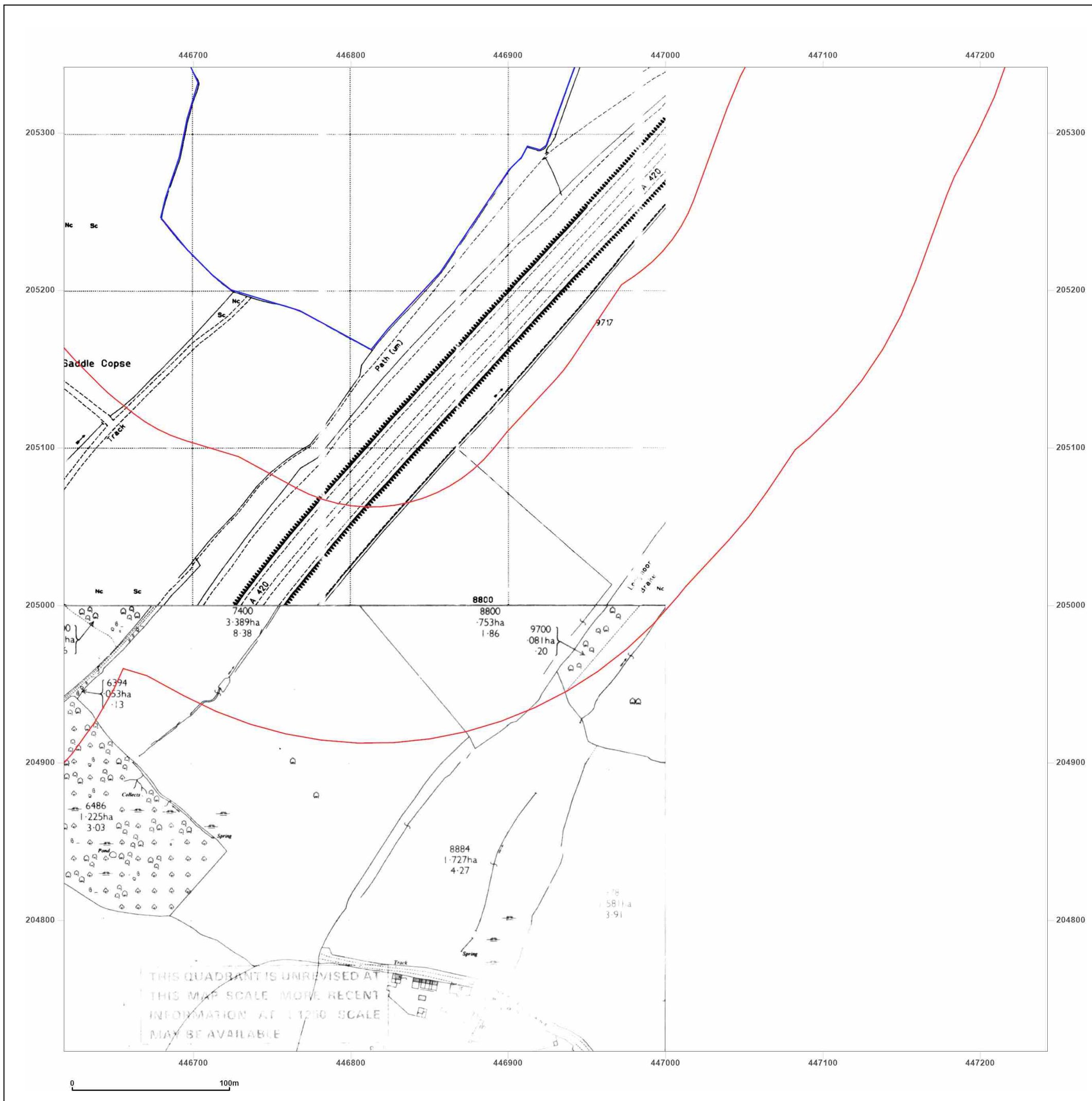


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_4_2
Grid Ref: 446930, 205654

Map Name: County Series

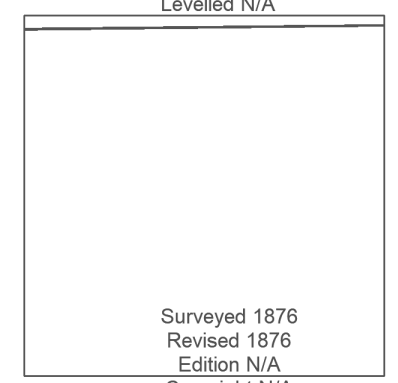
Map date: 1876

Scale: 1:2,500

Printed at: 1:2,500



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



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

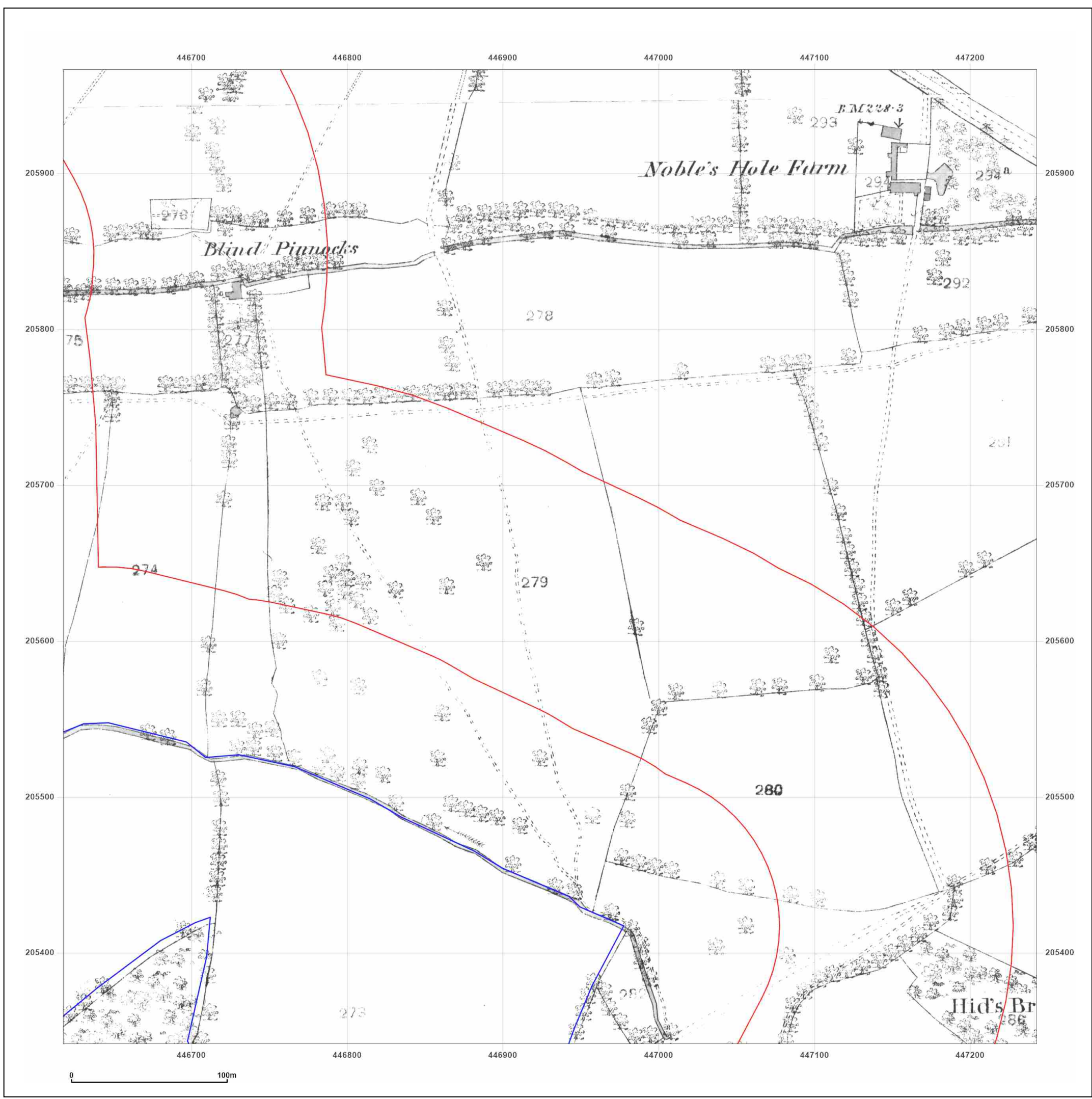


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_4_2
Grid Ref: 446930, 205654

Map Name: County Series

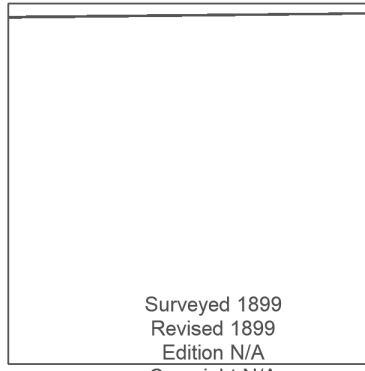
Map date: 1899

Scale: 1:2,500

Printed at: 1:2,500



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



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

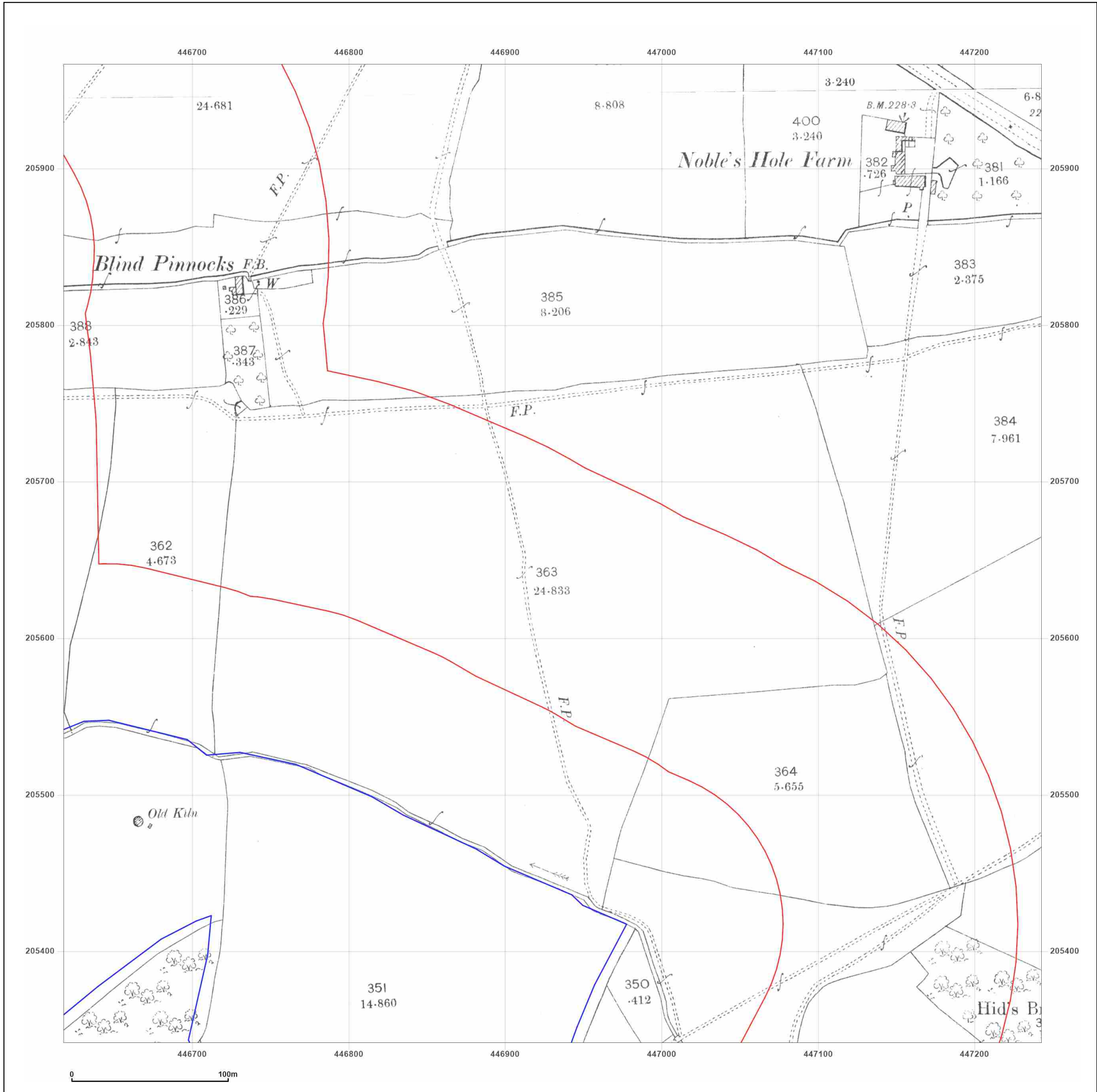


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_4_2
Grid Ref: 446930, 205654

Map Name: County Series

Map date: 1913

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1913
Revised 1913
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1913
Revised 1913
Edition N/A
Copyright N/A
Levelled N/A

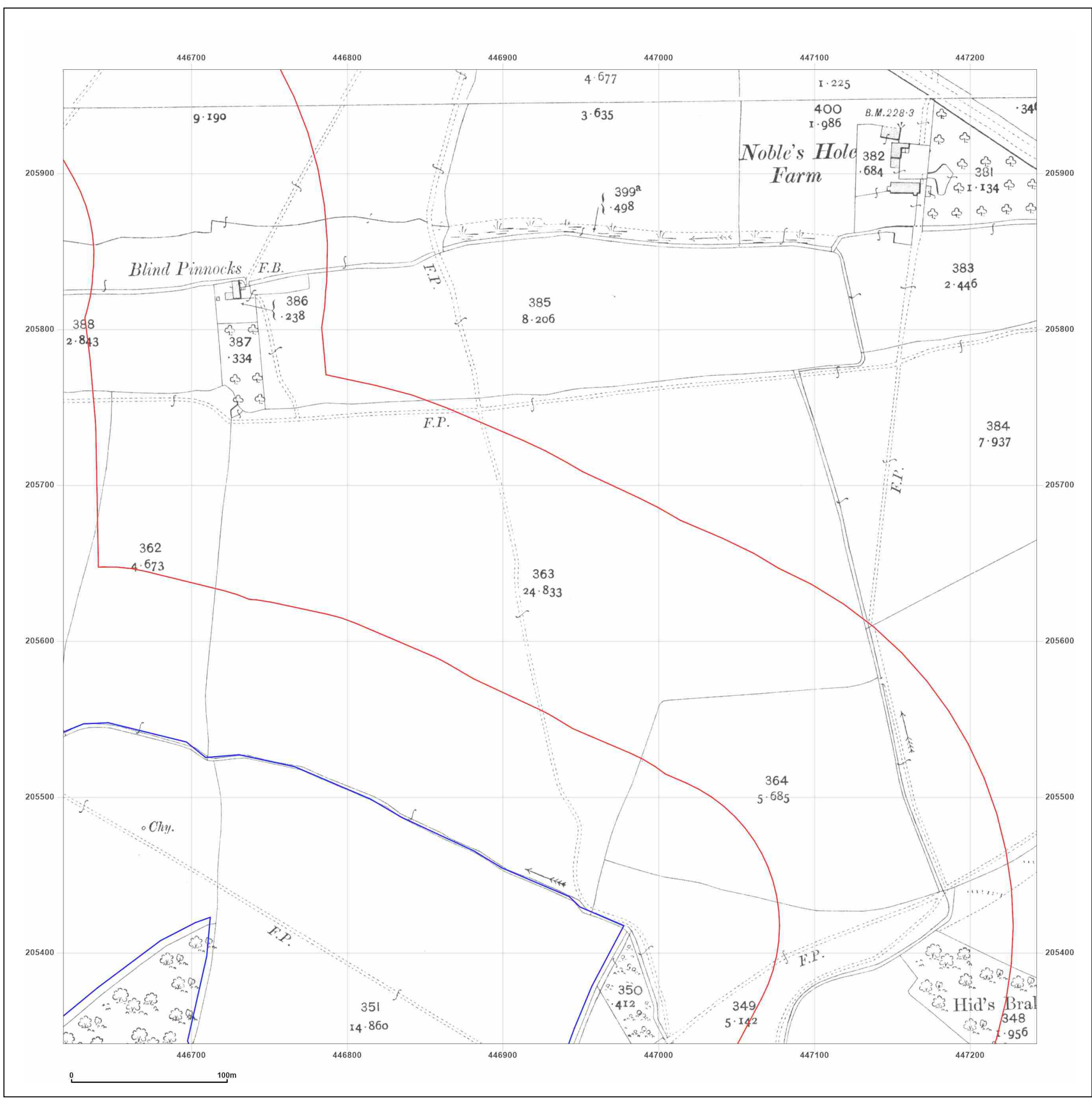


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Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_4_2
Grid Ref: 446930, 205654

Map Name: County Series

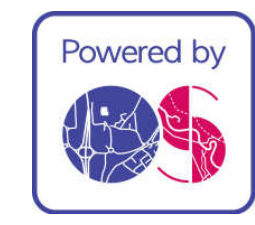
Map date: 1937

Scale: 1:2,500

Printed at: 1:2,500



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

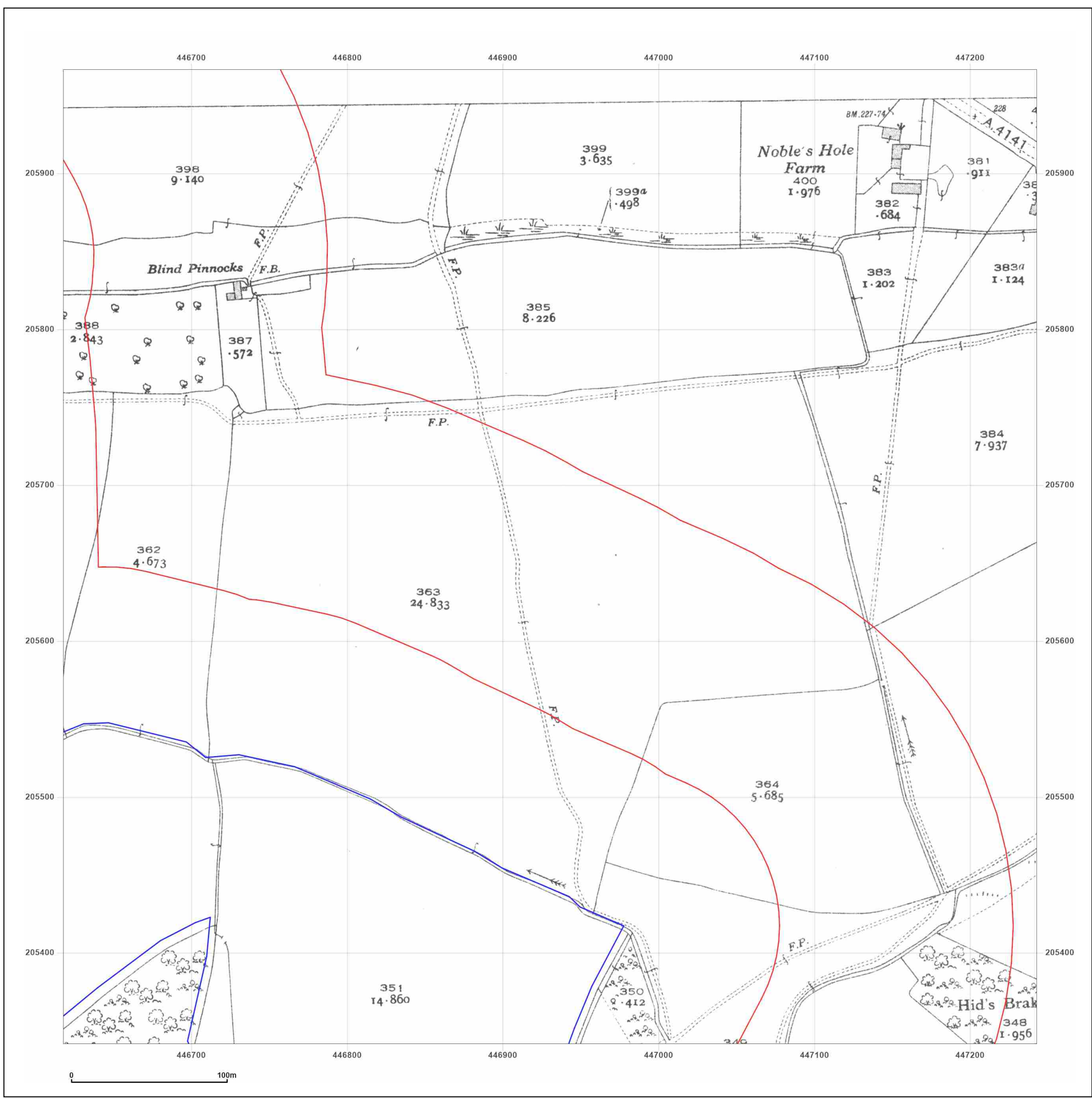


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_4_2
Grid Ref: 446930, 205654

Map Name: National Grid

Map date: 1971

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1958
 Revised 1969
 Edition N/A
 Copyright 1971
 Levelled 1970

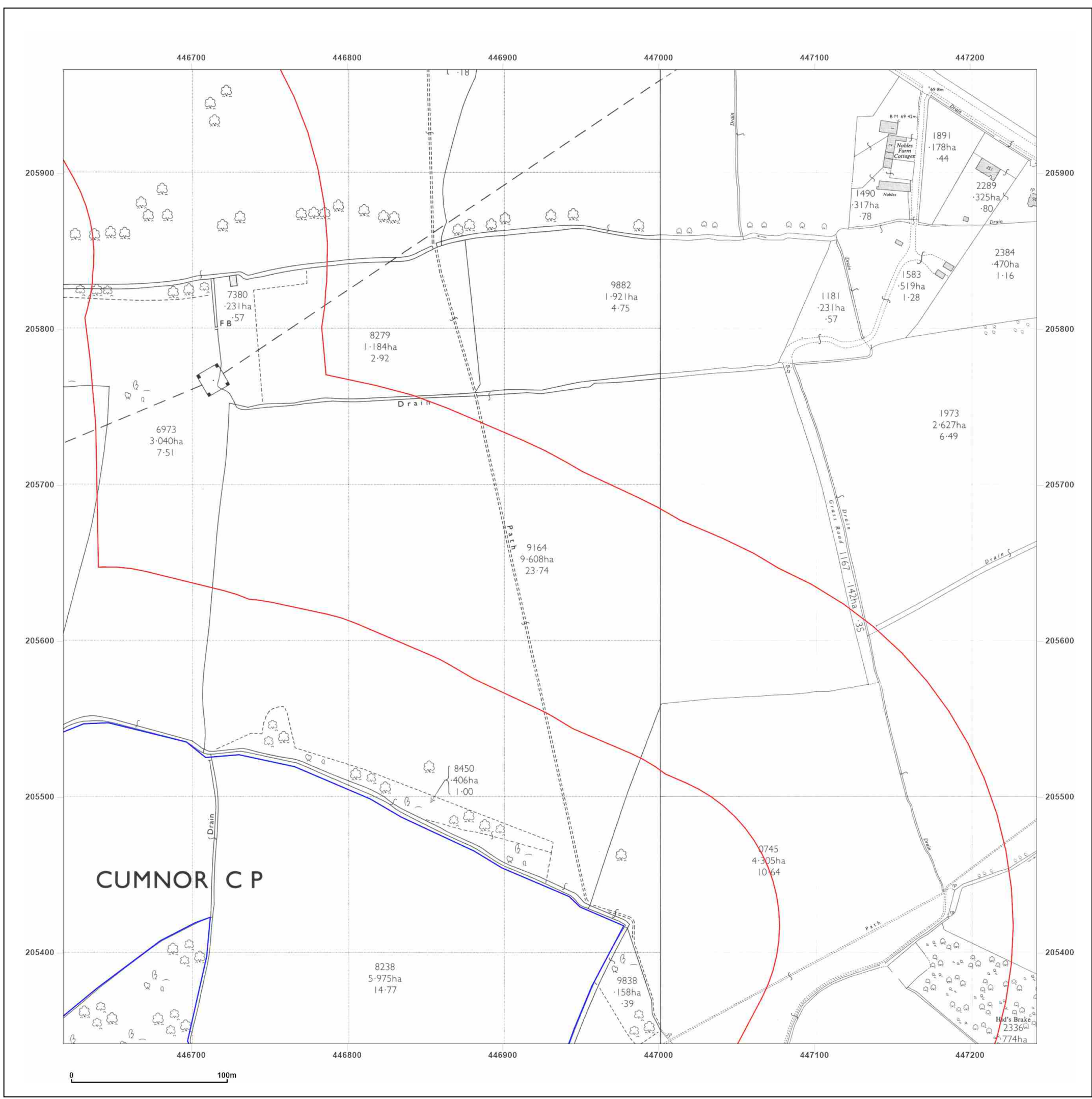


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Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_4_2
Grid Ref: 446930, 205654

Map Name: National Grid

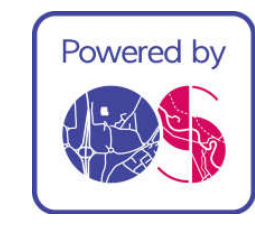
Map date: 1971

Scale: 1:2,500

Printed at: 1:2,500



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

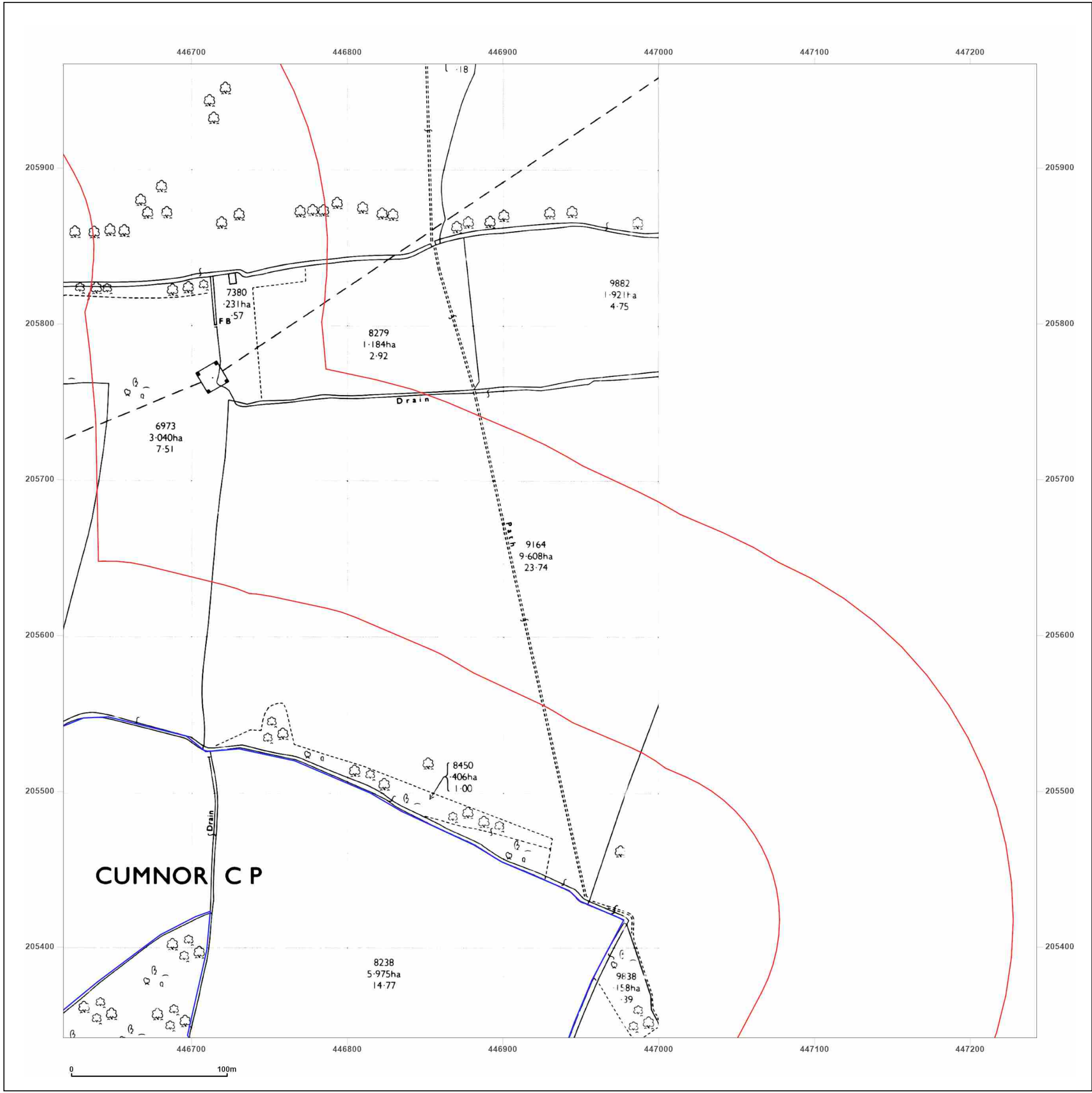


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_4_2
Grid Ref: 446930, 205654

Map Name: National Grid

Map date: 1992

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1971
 Revised 1992
 Edition N/A
 Copyright 1992
 Levelled 1971

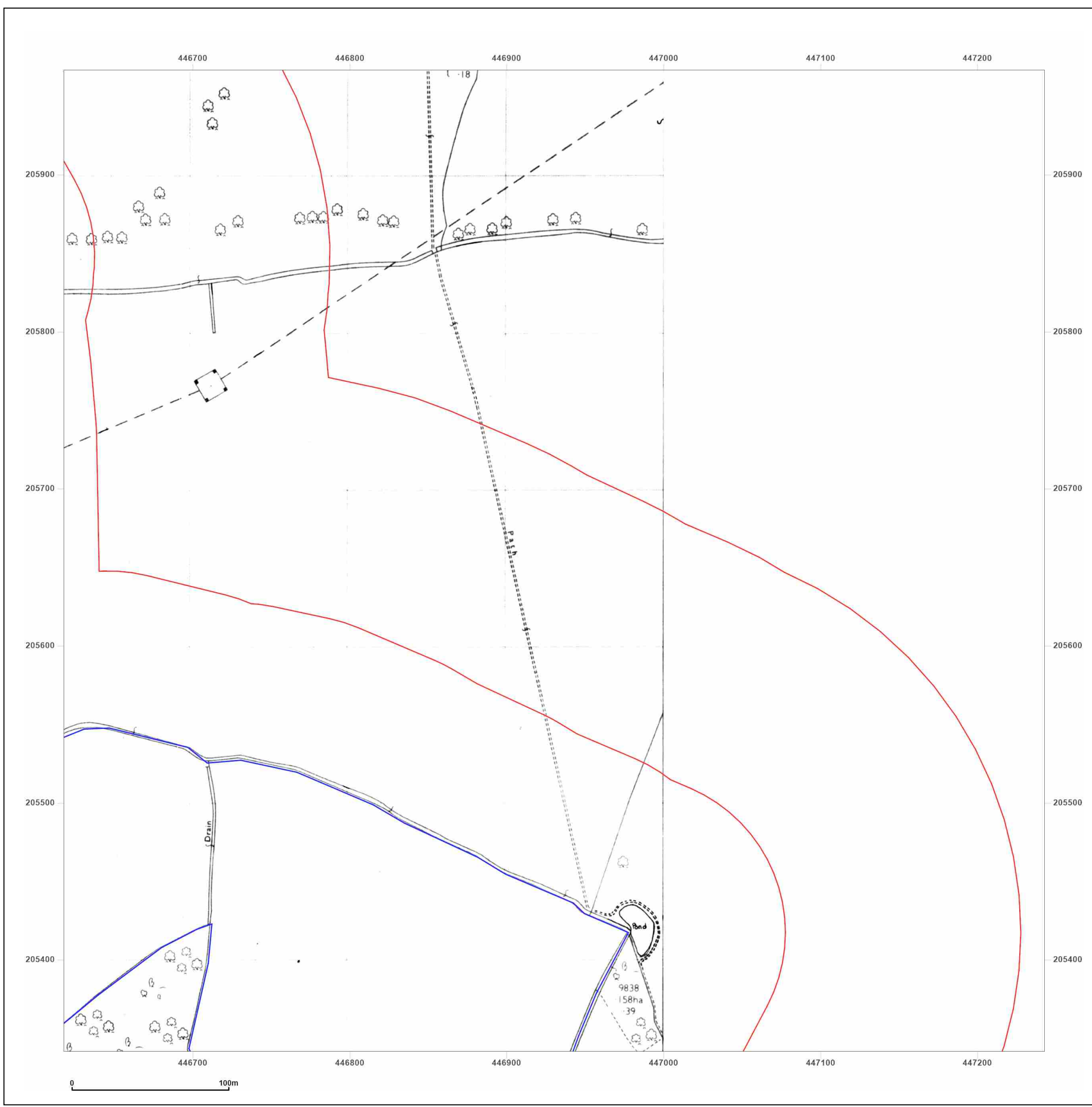


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_LS_4_2
Grid Ref: 446930, 205654

Map Name: National Grid

Map date: 1994

Scale: 1:2,500

Printed at: 1:2,500



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

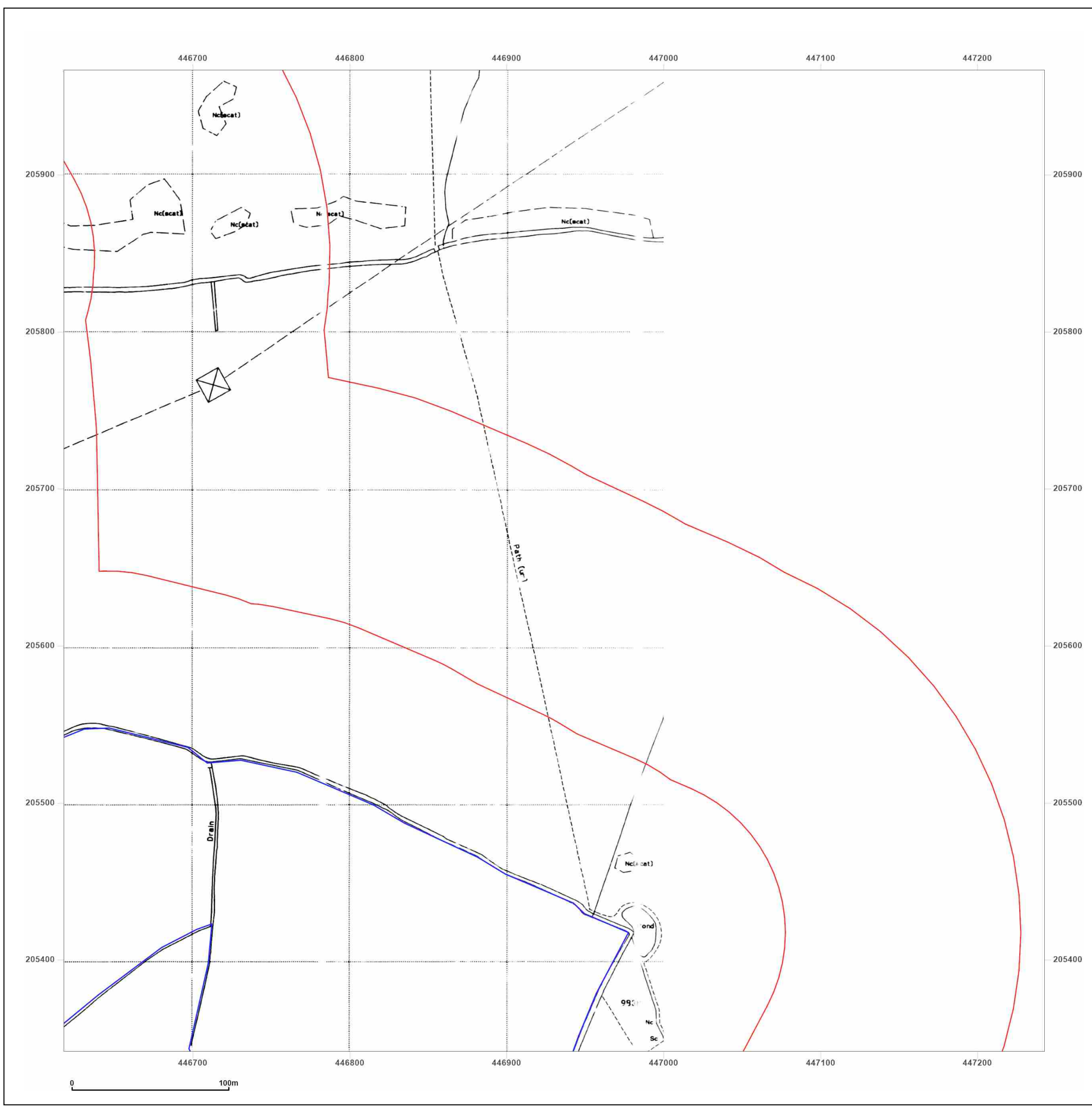


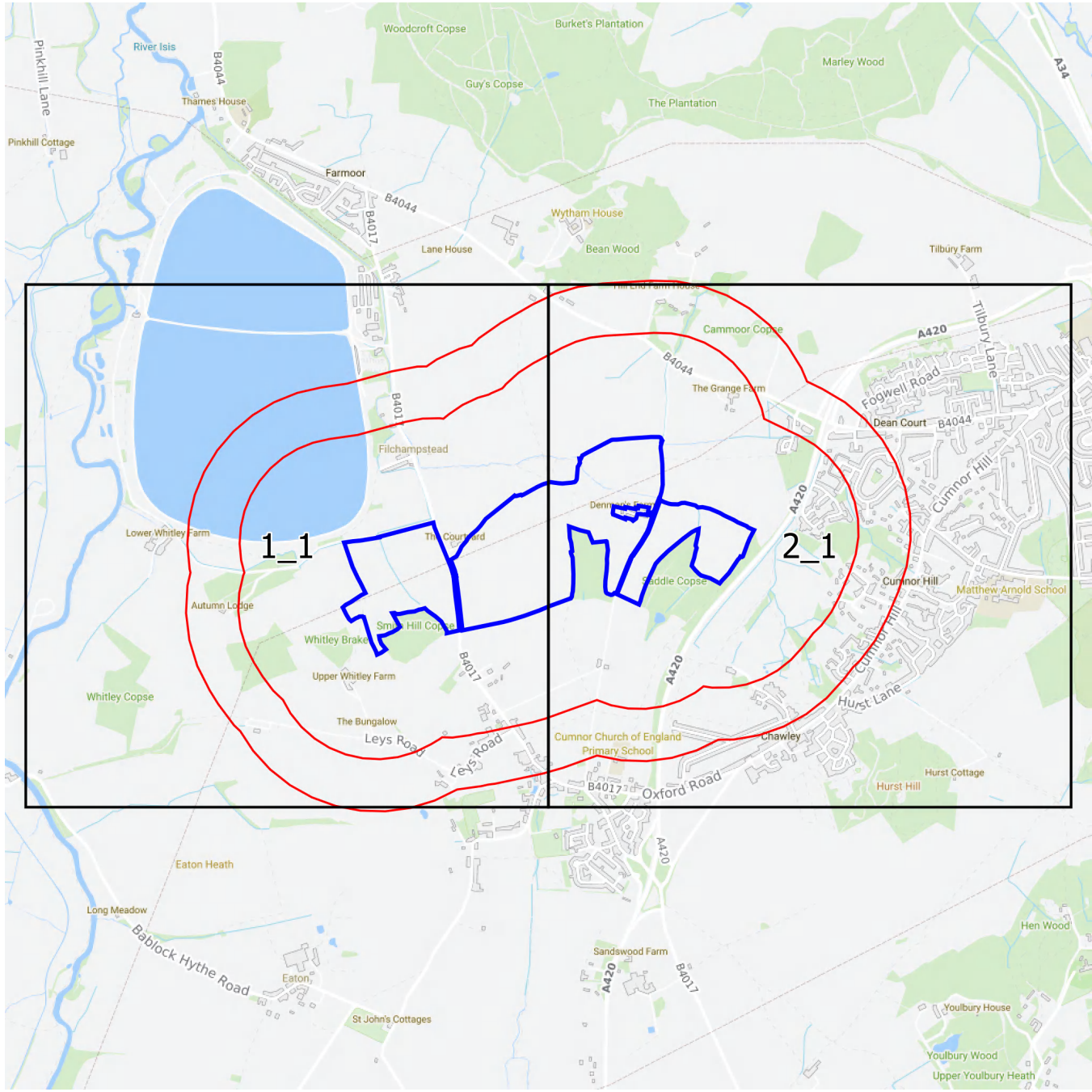
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Production date: 24 May 2022

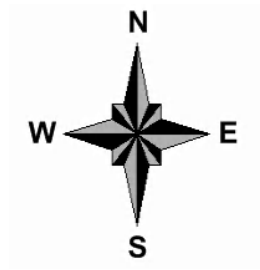
Map legend available at:





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INSIGHTS

Small Scale Grid Index



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_1_1
Grid Ref: 444743, 205342

Map Name: County Series

Map date: 1876

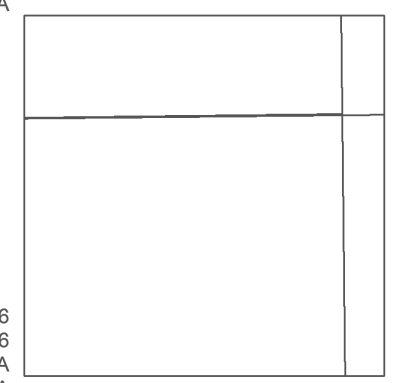
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Printed at: 1:10,560



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

Surveyed 1876
 Revised 1876
 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:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_1_1
Grid Ref: 444743, 205342

Map Name: County Series

Map date: 1900

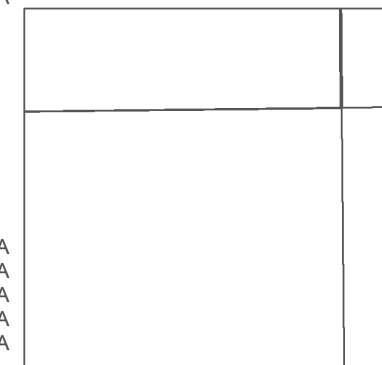
Scale: 1:10,560

Printed at: 1:10,560



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

Surveyed N/A
 Revised 1898
 Edition 1900
 Copyright N/A
 Levelled N/A



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

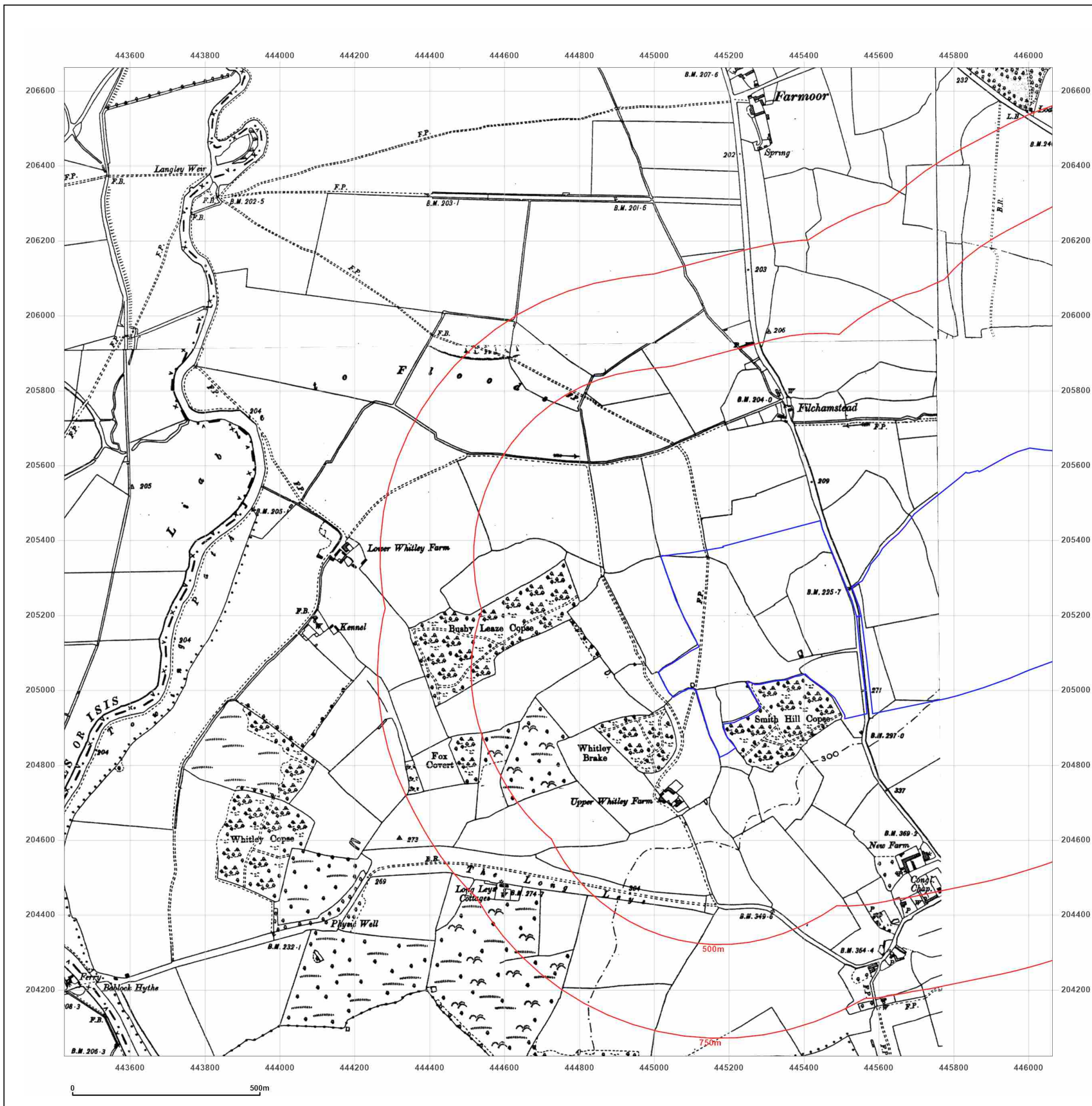


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_1_1
Grid Ref: 444743, 205342

Map Name: County Series

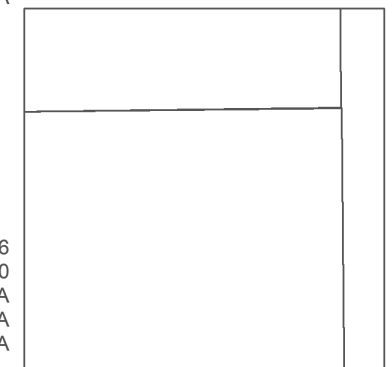
Map date: 1900

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
 Revised 1900
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed 1876
 Revised 1900
 Edition N/A
 Copyright N/A
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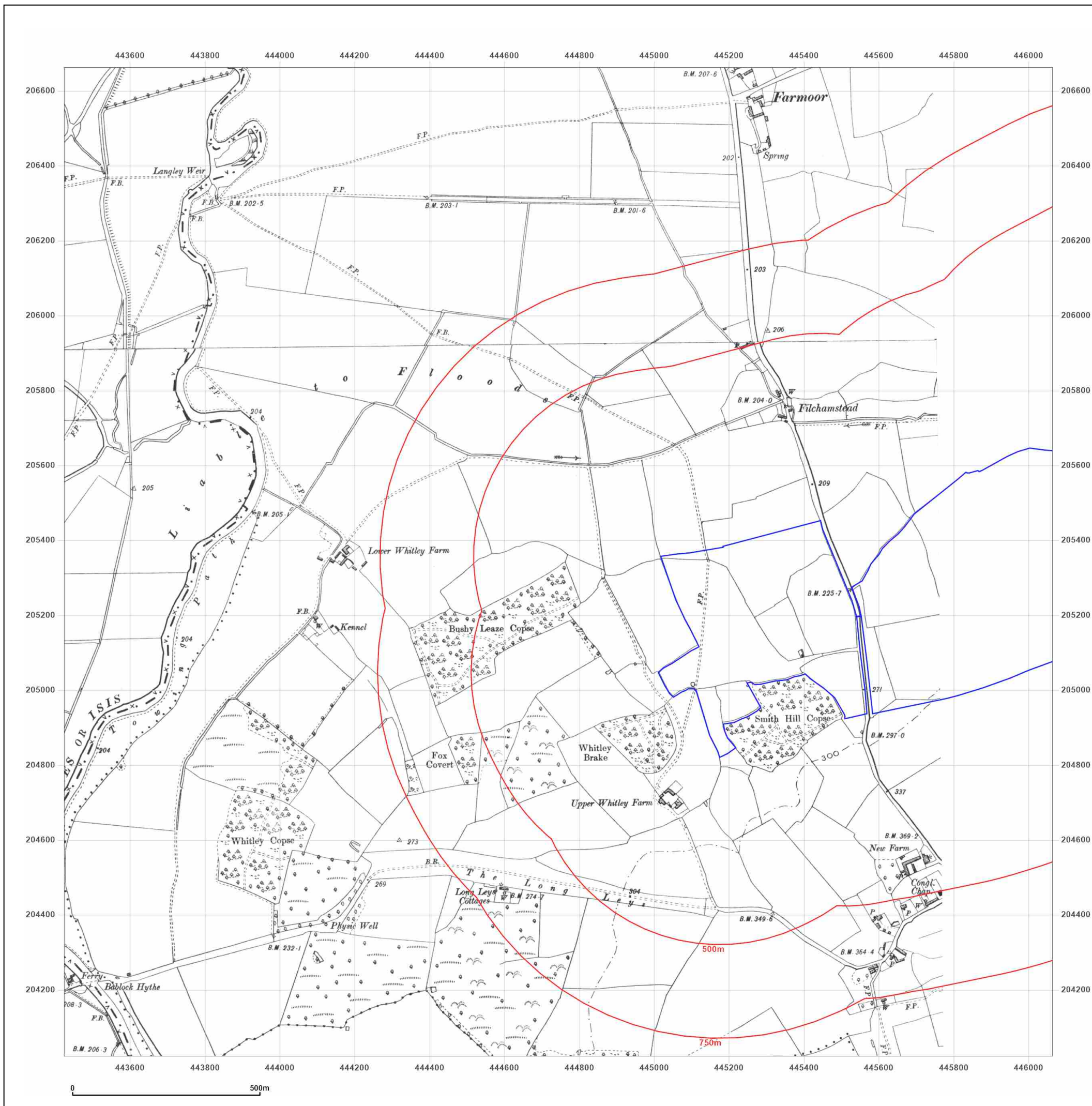


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_1_1
Grid Ref: 444743, 205342

Map Name: County Series

Map date: 1911-1914

Scale: 1:10,560

Printed at: 1:10,560



		Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A
Surveyed 1875 Revised 1914 Edition N/A Copyright N/A Levelled N/A		Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A

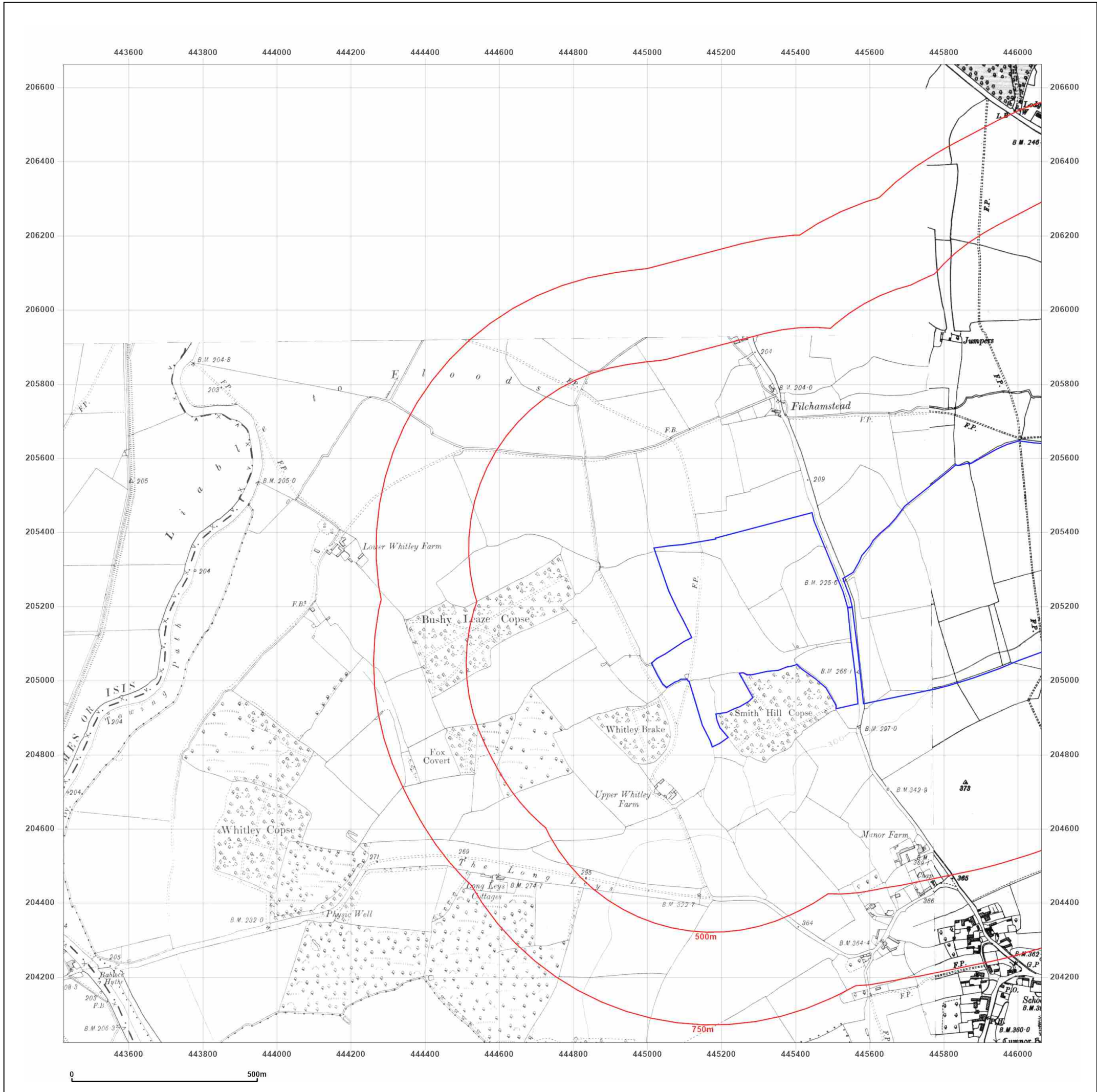


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Production date: 24 May 2022

Map legend available at: XXXXXXXXXX



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_1_1
Grid Ref: 444743, 205342

Map Name: County Series

Map date: 1911-1914

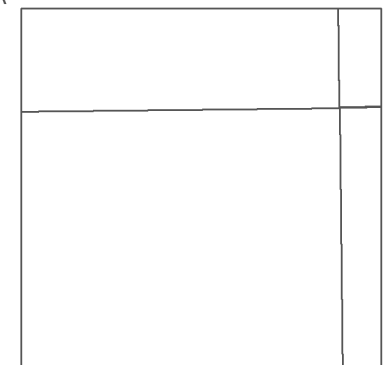
Scale: 1:10,560

Printed at: 1:10,560



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

Surveyed 1872
 Revised 1911
 Edition 1914
 Copyright N/A
 Levelled 1912



Surveyed 1872
 Revised 1911
 Edition 1914
 Copyright N/A
 Levelled 1911

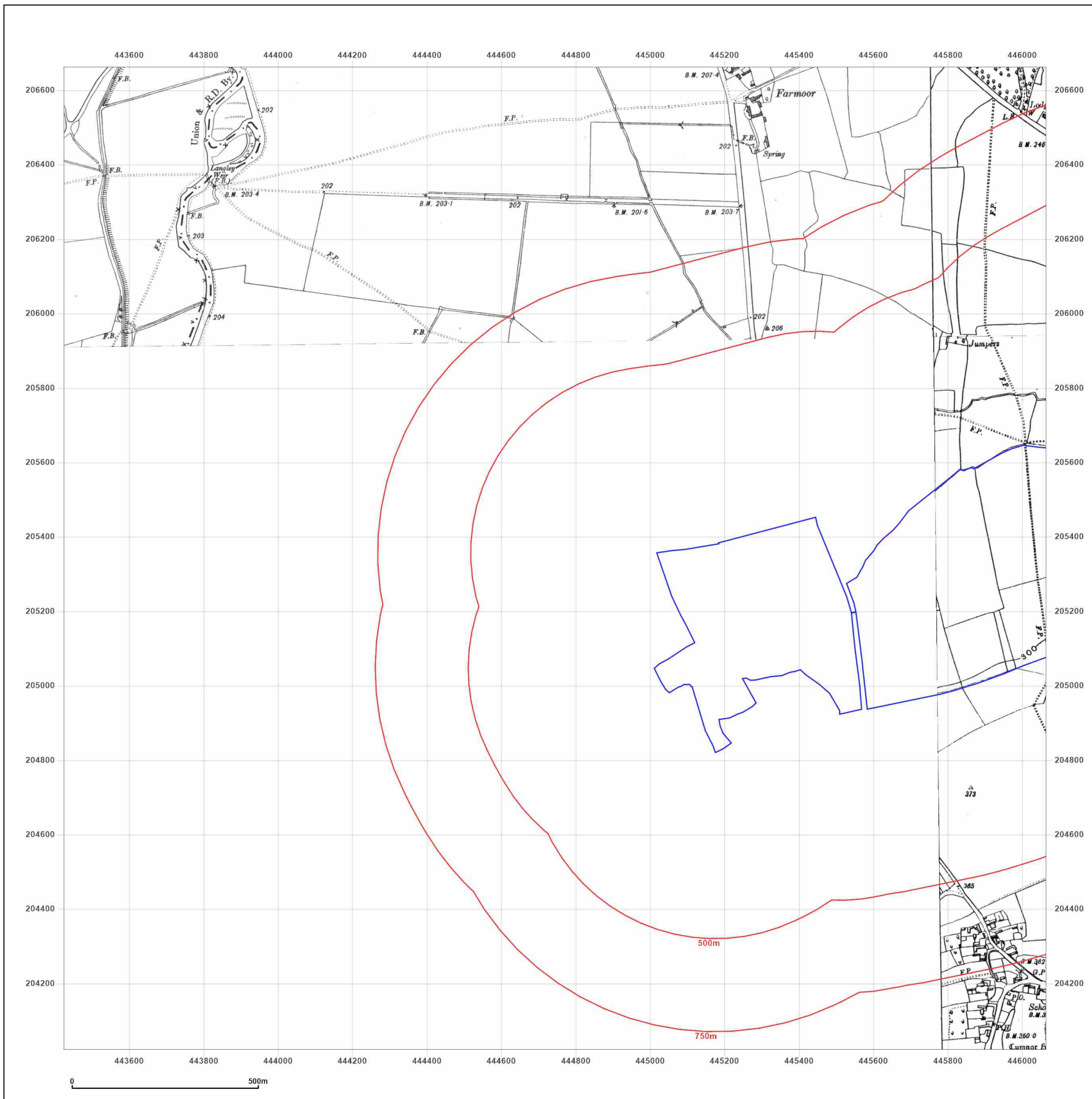


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_1_1
Grid Ref: 444743, 205342

Map Name: County Series

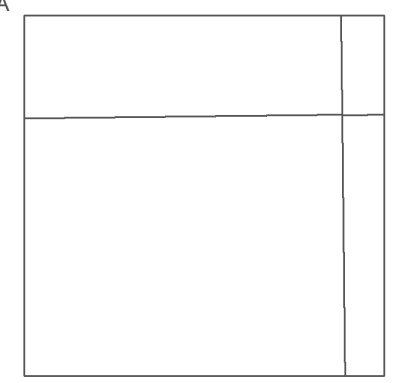
Map date: 1914

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1872
 Revised 1914
 Edition 1914
 Copyright N/A
 Levelled N/A



Surveyed 1874
 Revised 1911
 Edition 1914
 Copyright N/A
 Levelled 1911

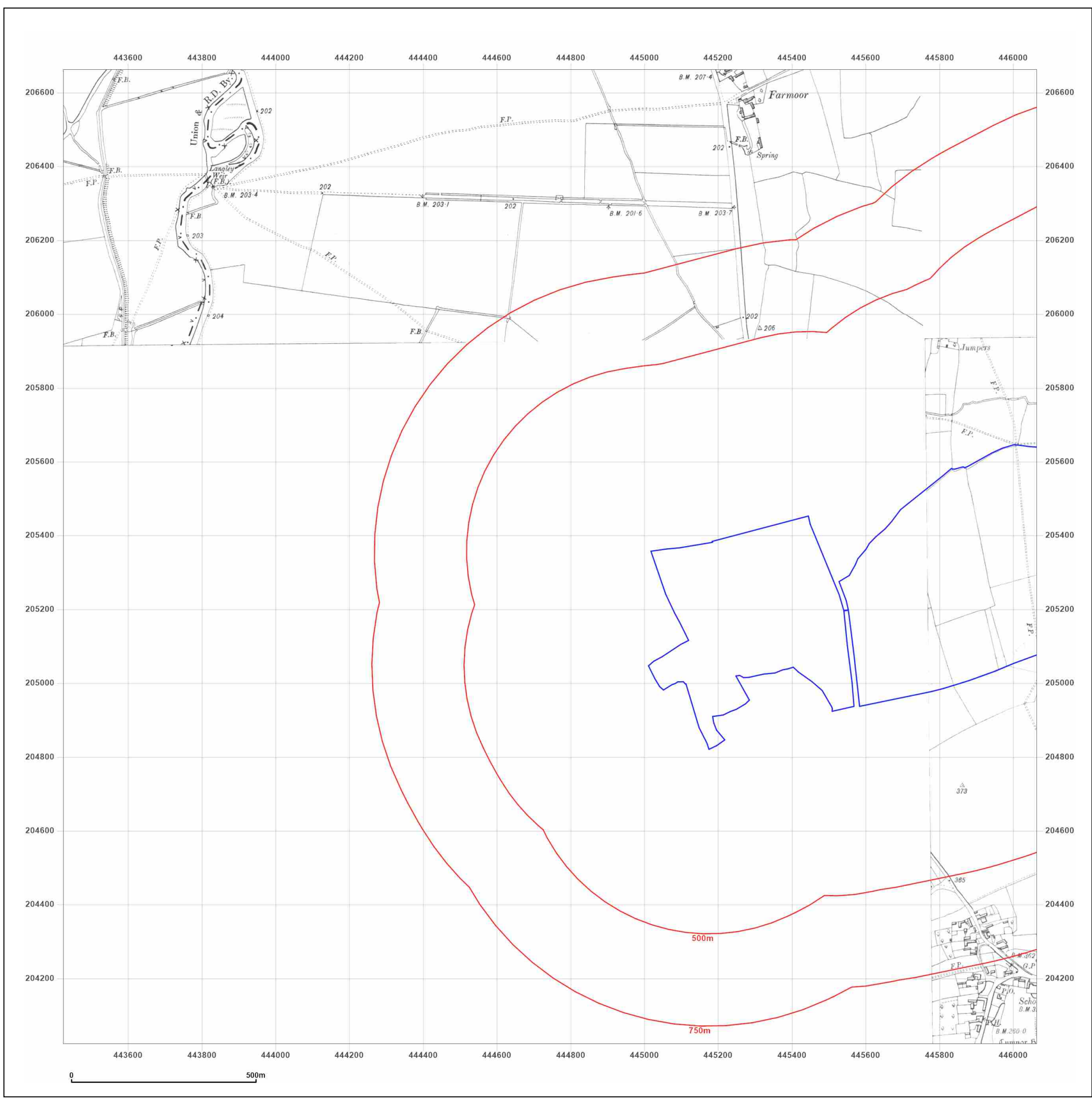


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_1_1
Grid Ref: 444743, 205342

Map Name: County Series

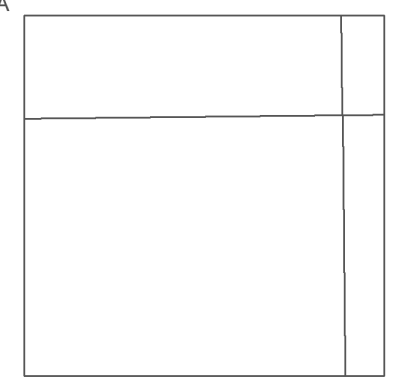
Map date: 1922

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1872
 Revised 1922
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed 1874
 Revised 1919
 Edition 1922
 Copyright N/A
 Levelled 1911

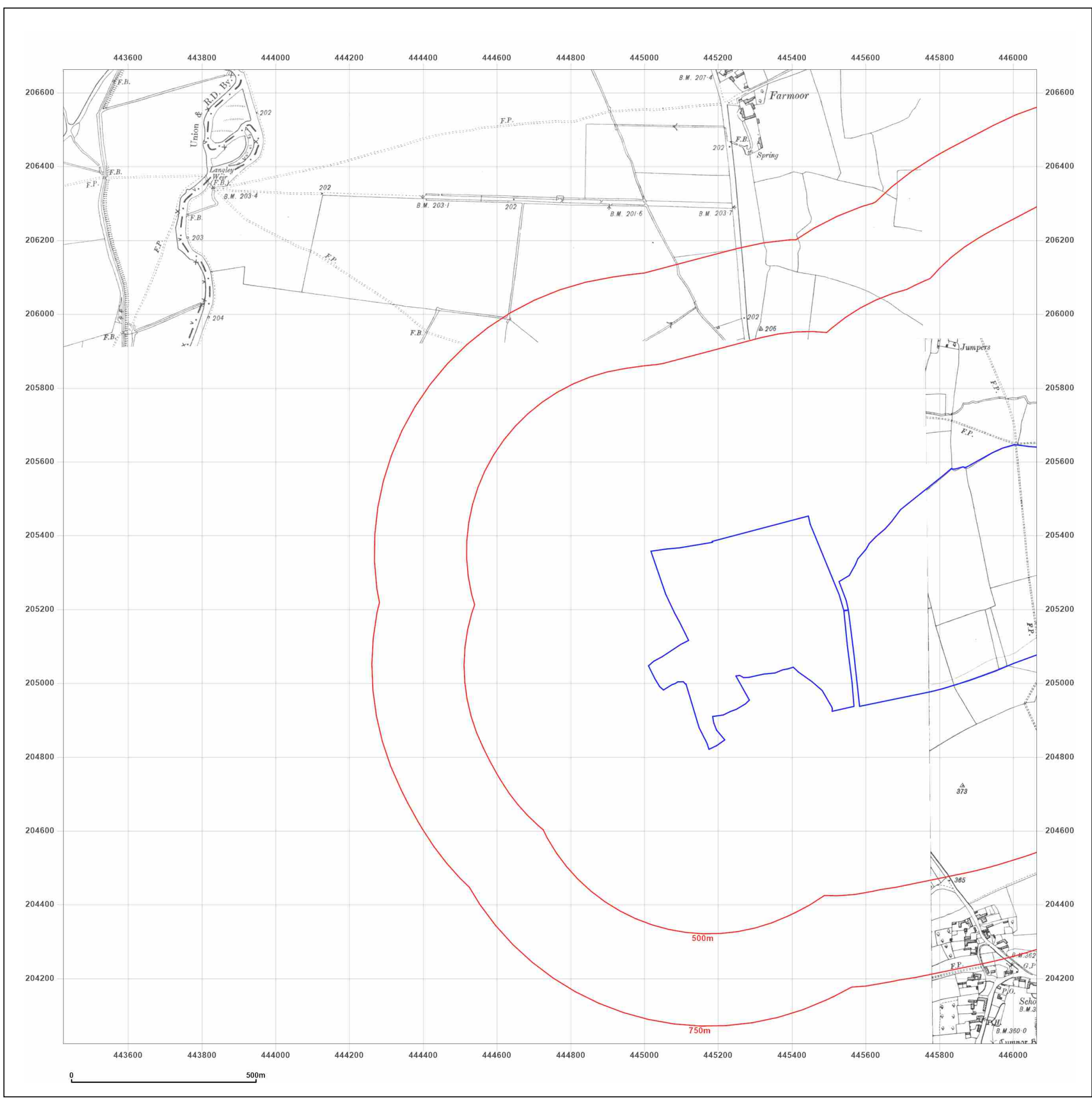


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_1_1
Grid Ref: 444743, 205342

Map Name: Provisional

Map date: 1956-1961

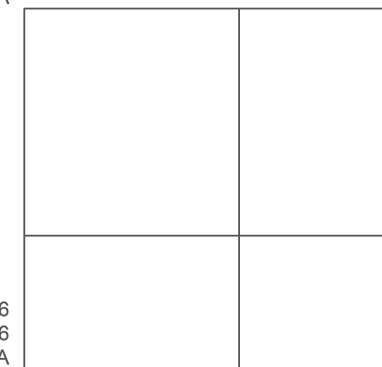
Scale: 1:10,560

Printed at: 1:10,560



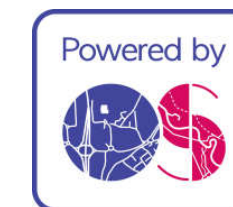
Surveyed 1956
 Revised 1956
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed N/A
 Revised 1960
 Edition N/A
 Copyright 1961
 Levelled N/A



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

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

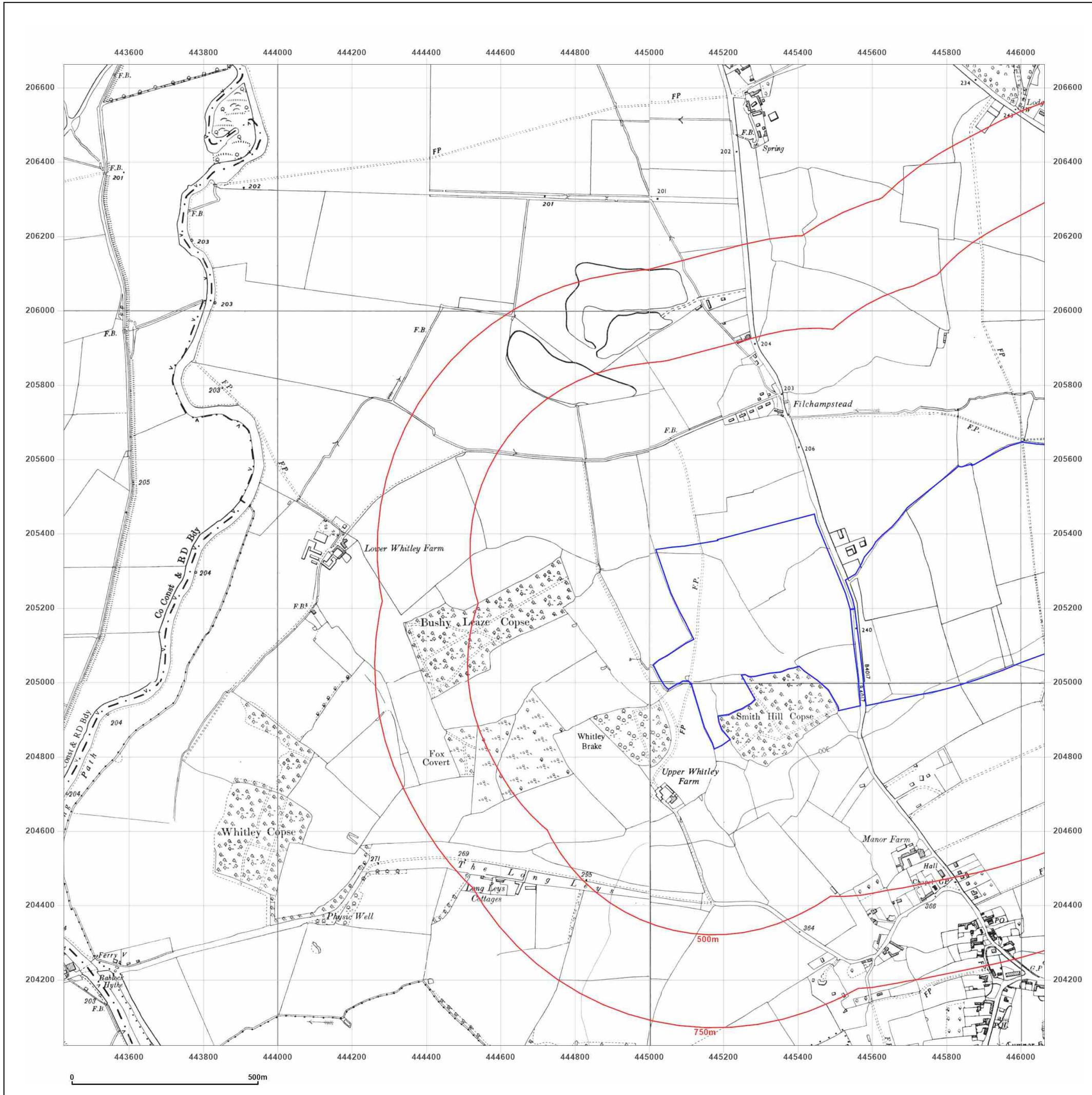


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_1_1
Grid Ref: 444743, 205342

Map Name: Provisional

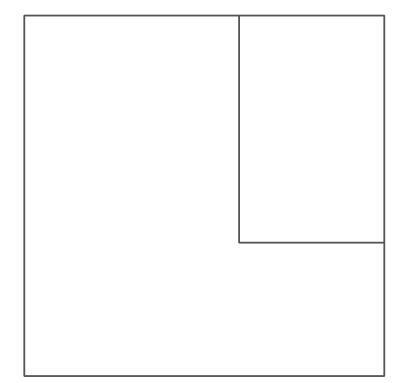
Map date: 1968

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1956
 Revised 1967
 Edition 1968
 Copyright 1961
 Levelled N/A

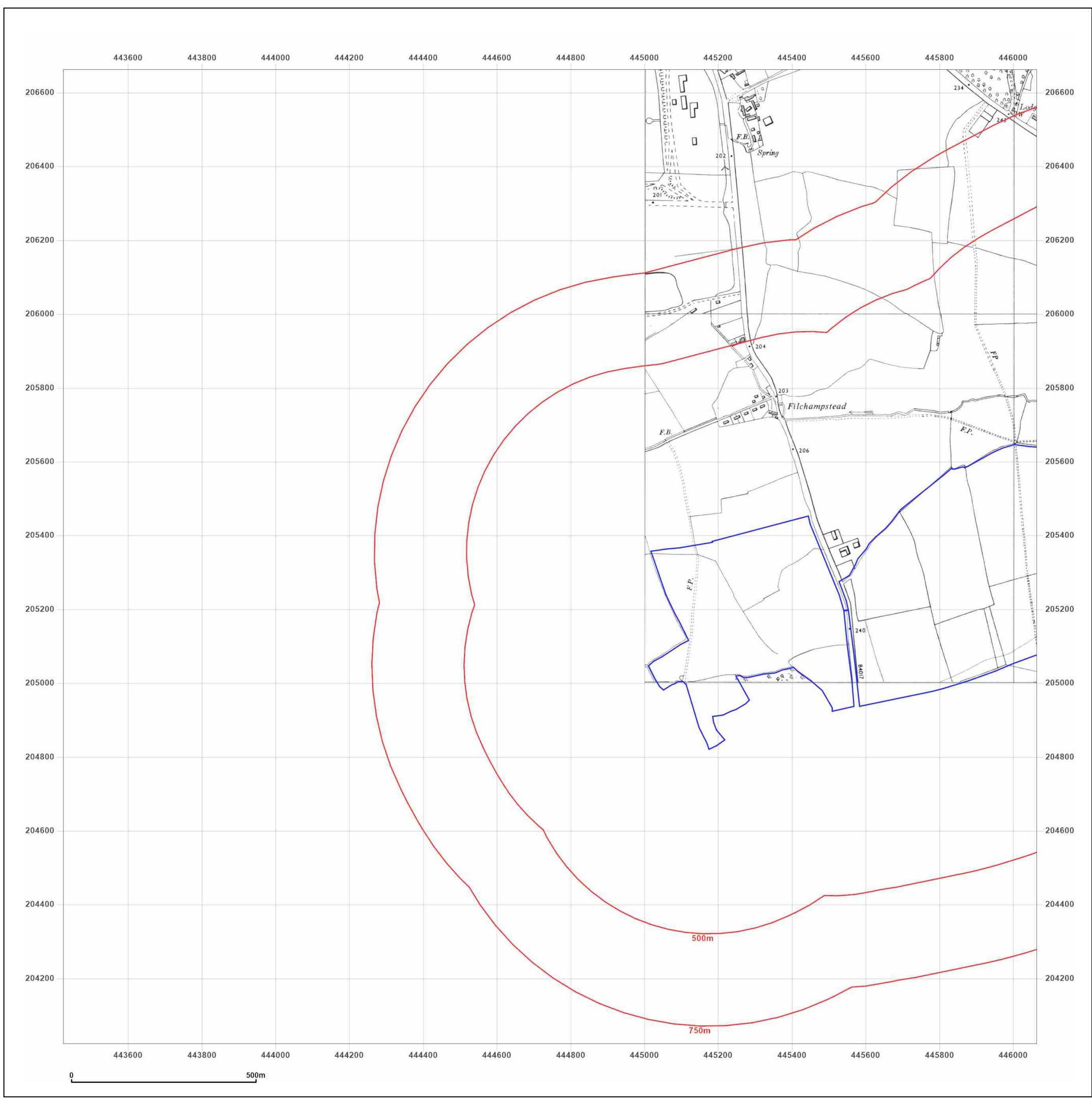


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_1_1
Grid Ref: 444743, 205342

Map Name: National Grid

Map date: 1972

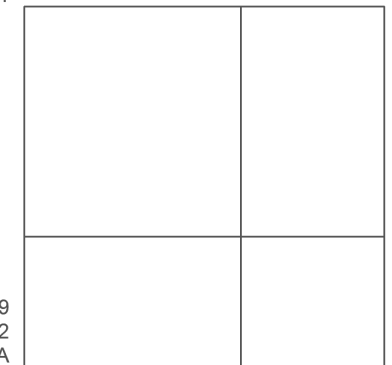
Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1970
 Revised 1972
 Edition N/A
 Copyright 1972
 Levelled 1971

Surveyed 1970
 Revised 1972
 Edition N/A
 Copyright 1972
 Levelled 1971



Surveyed 1969
 Revised 1972
 Edition N/A
 Copyright 1972
 Levelled 1971

Surveyed 1970
 Revised 1972
 Edition N/A
 Copyright 1972
 Levelled 1971

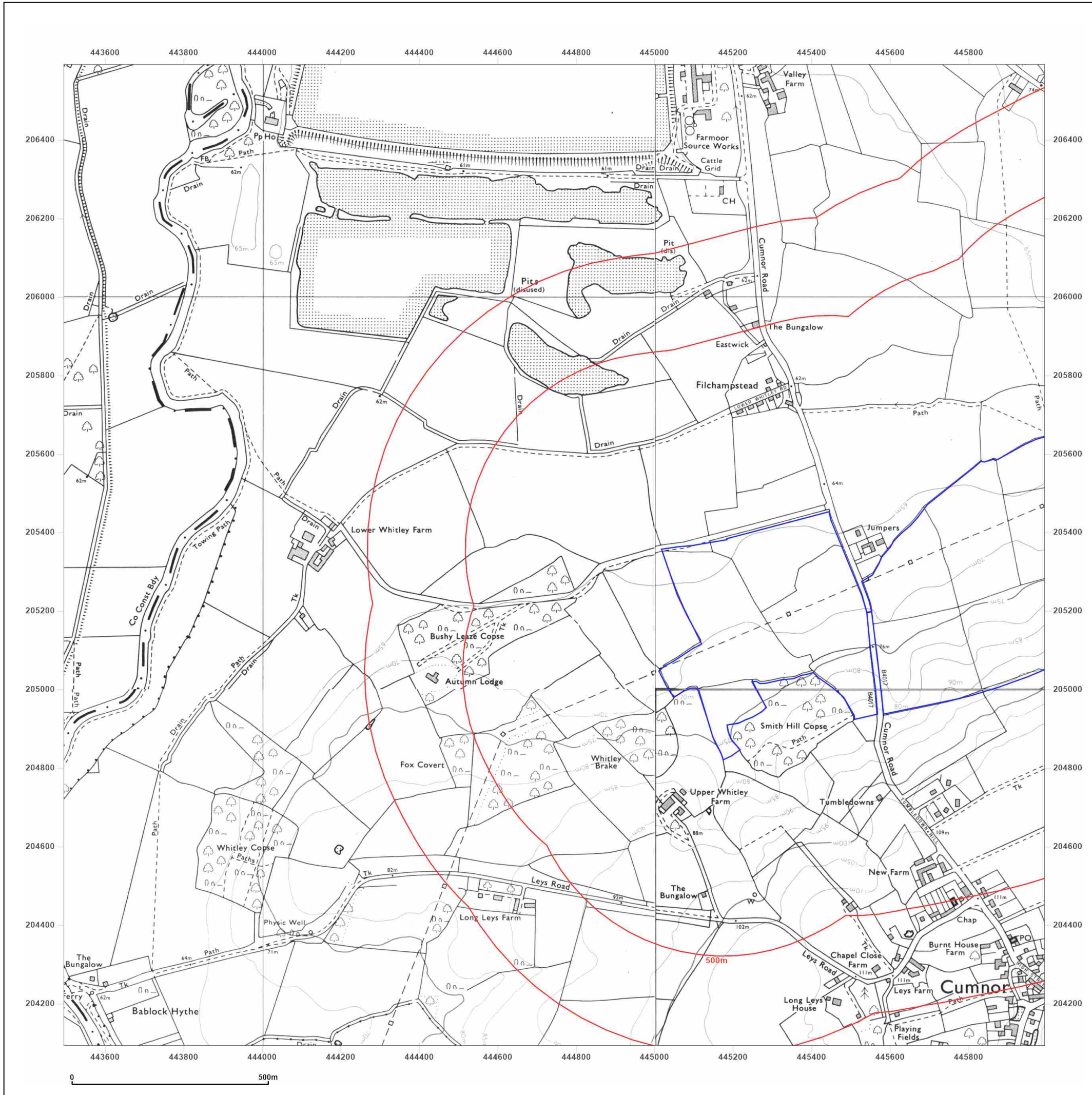


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_1_1
Grid Ref: 444743, 205342

Map Name: National Grid

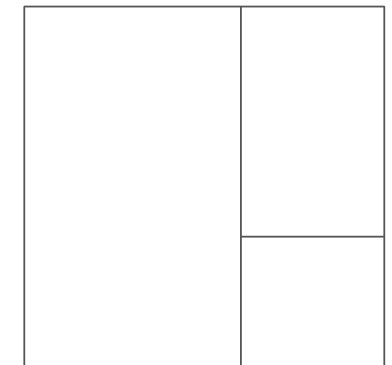
Map date: 1980-1982

Scale: 1:10,000

Printed at: 1:10,000



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



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

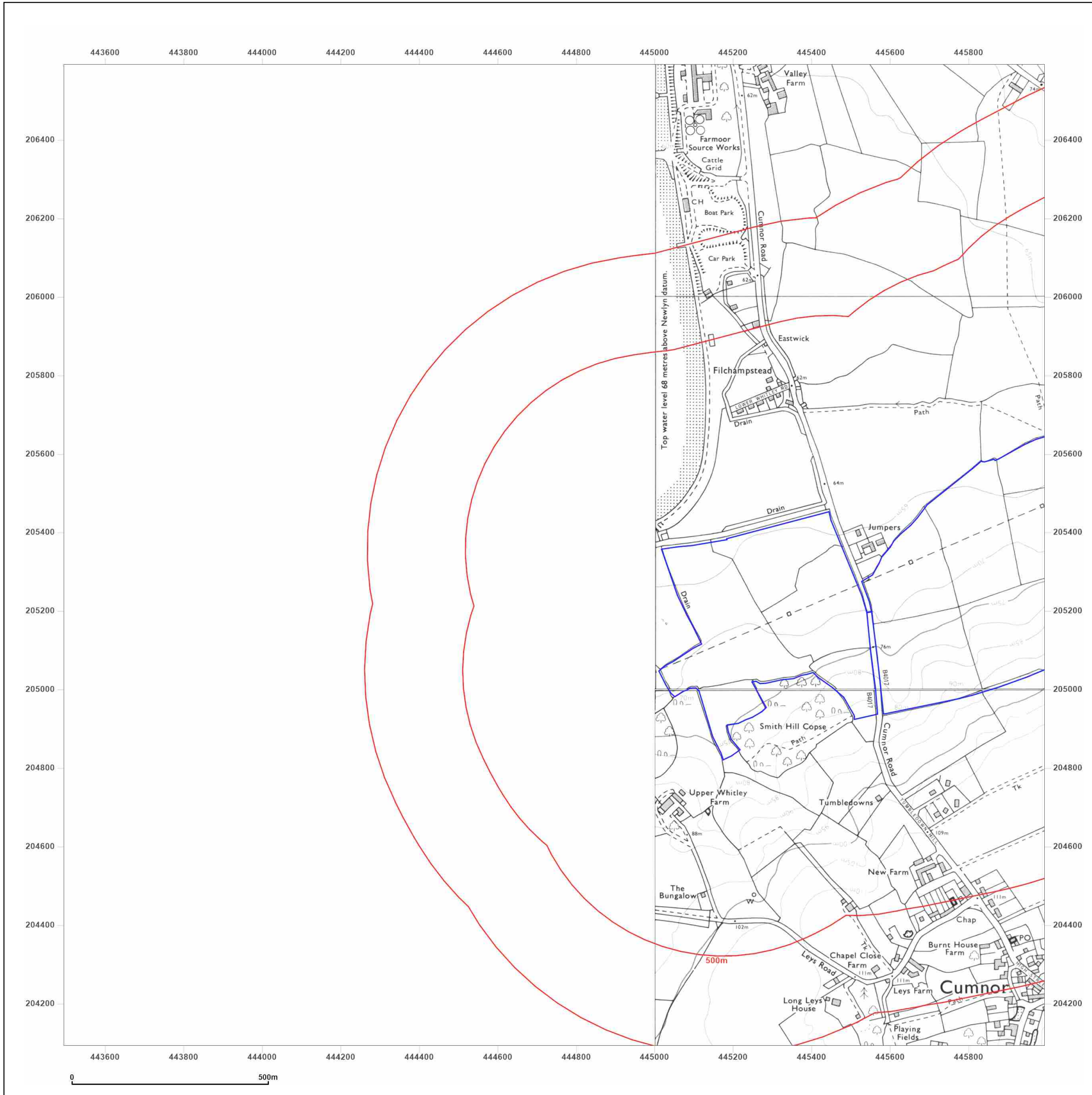


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_1_1
Grid Ref: 444743, 205342

Map Name: National Grid

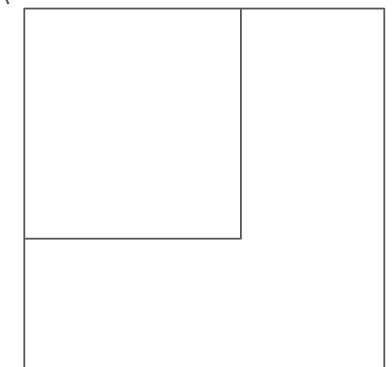
Map date: 1988

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1983
 Revised 1988
 Edition N/A
 Copyright N/A
 Levelled N/A

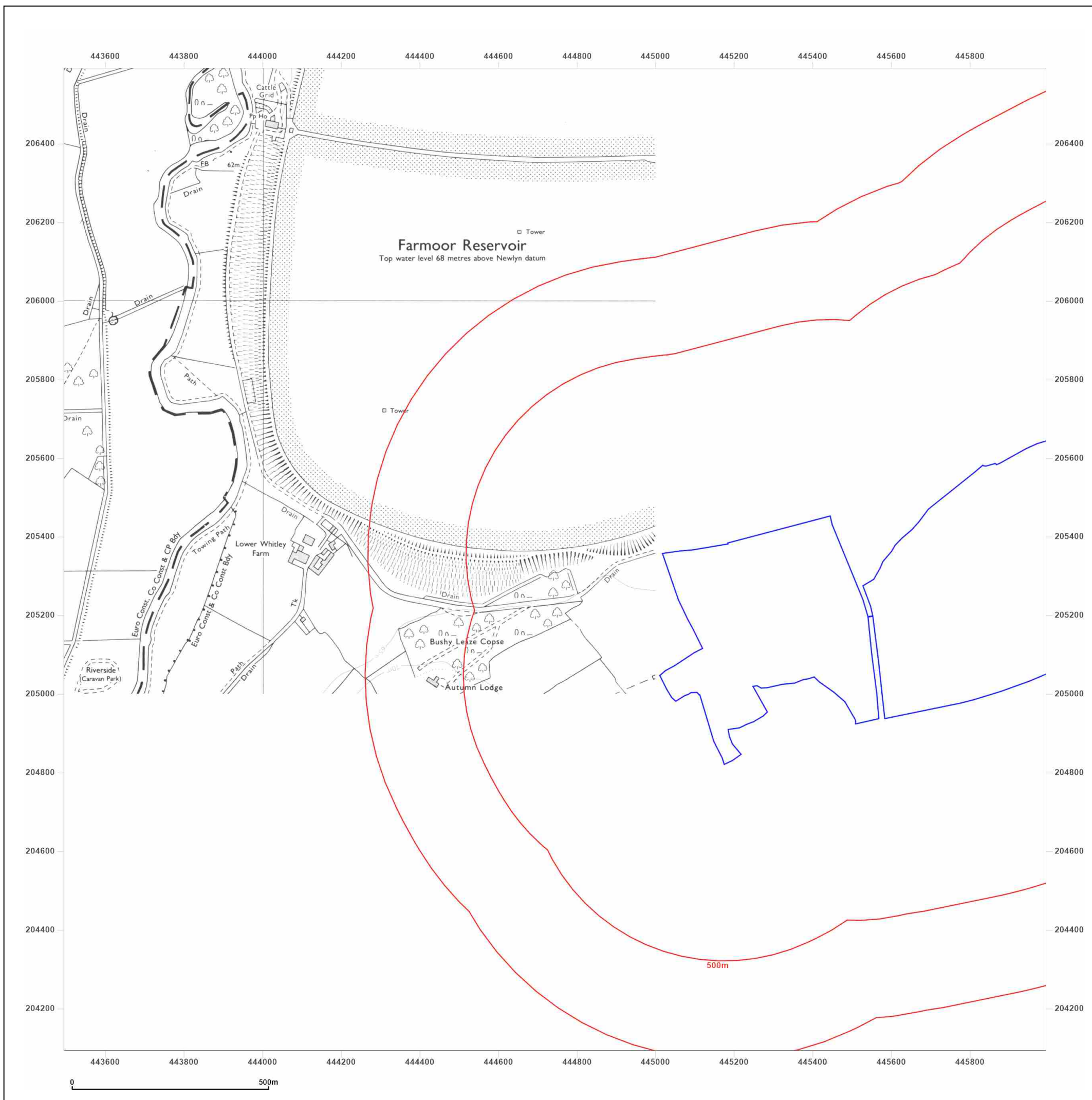


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

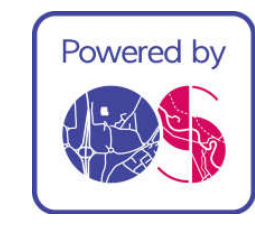
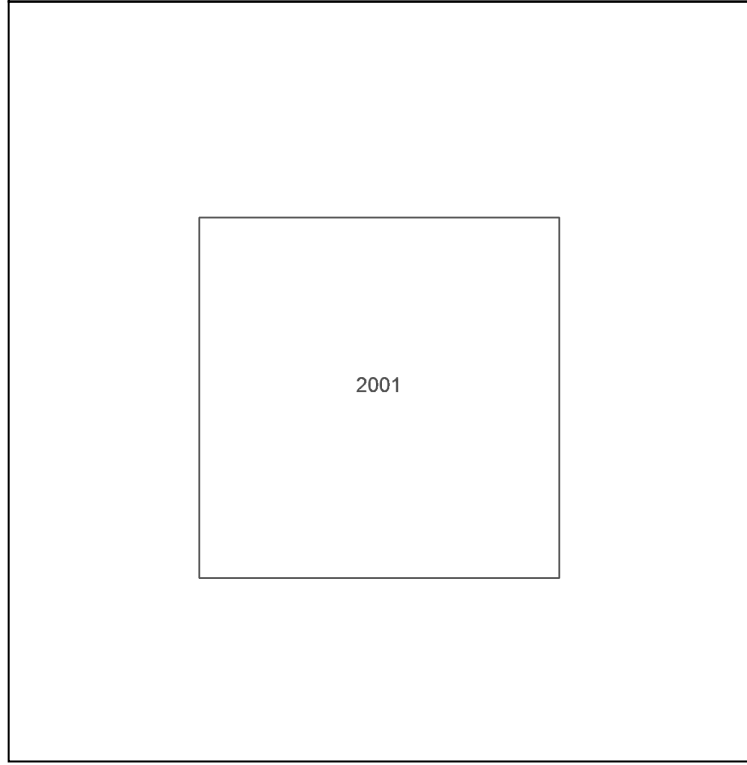
Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_1_1
Grid Ref: 444743, 205342

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

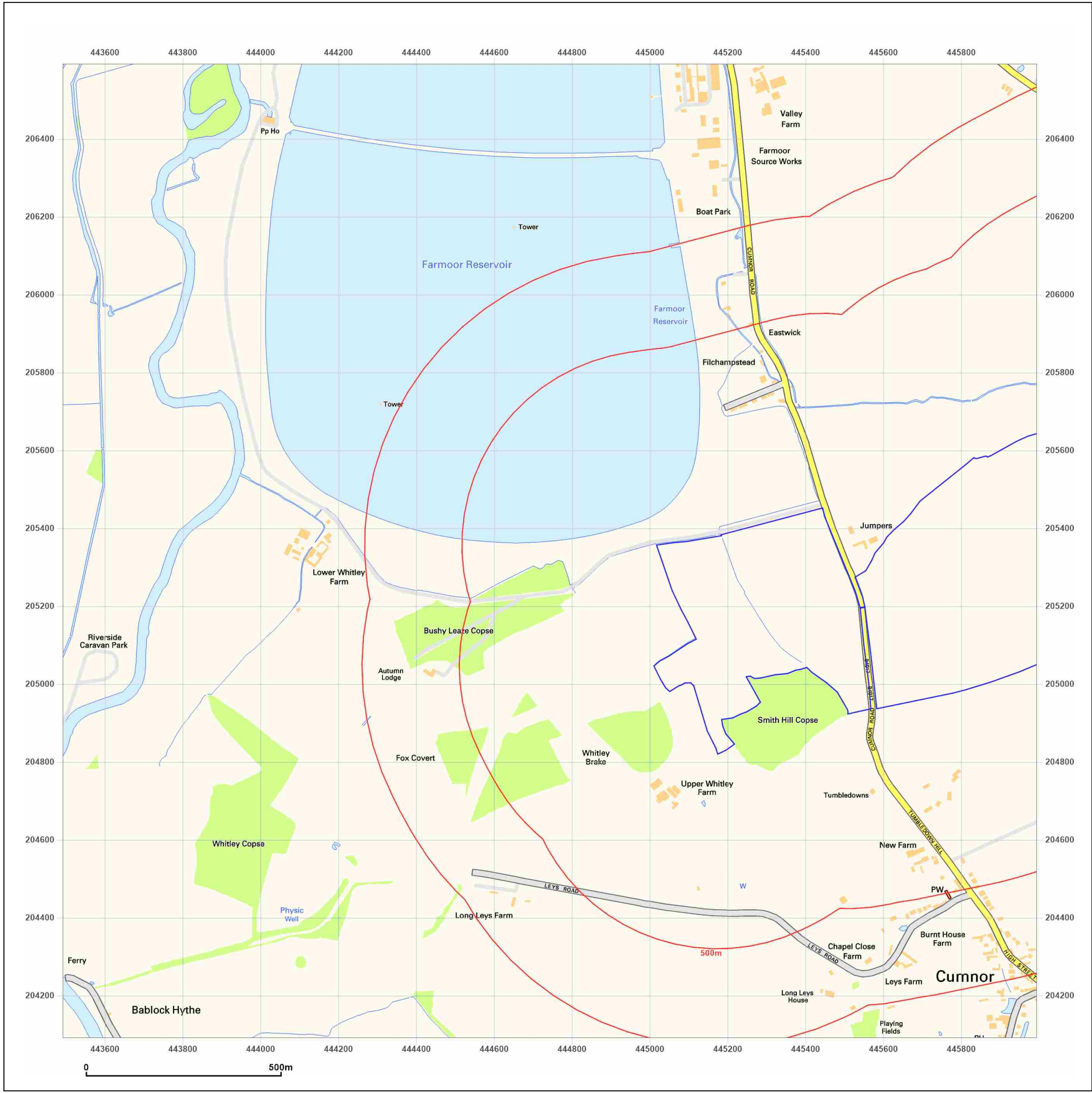


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

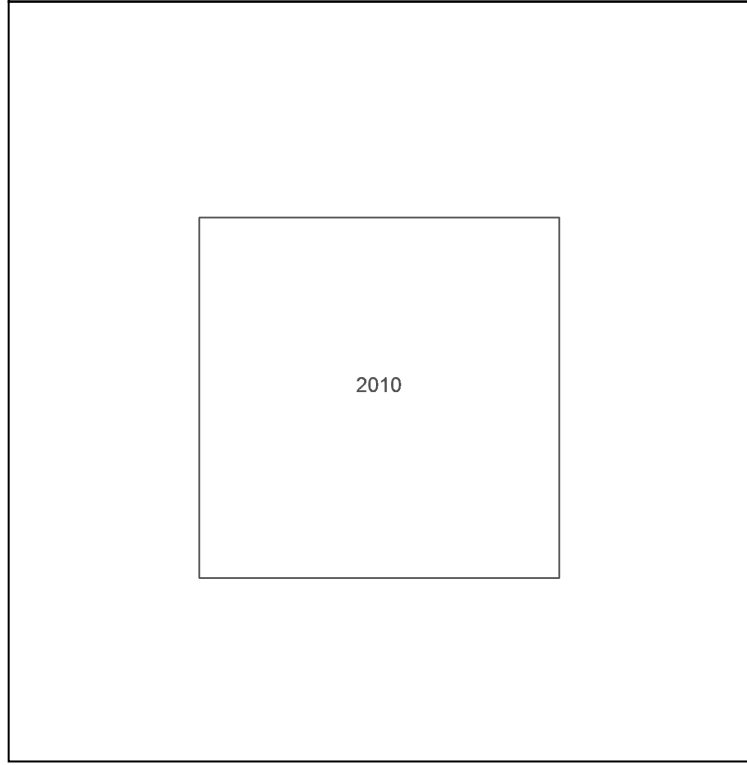
Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_1_1
Grid Ref: 444743, 205342

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

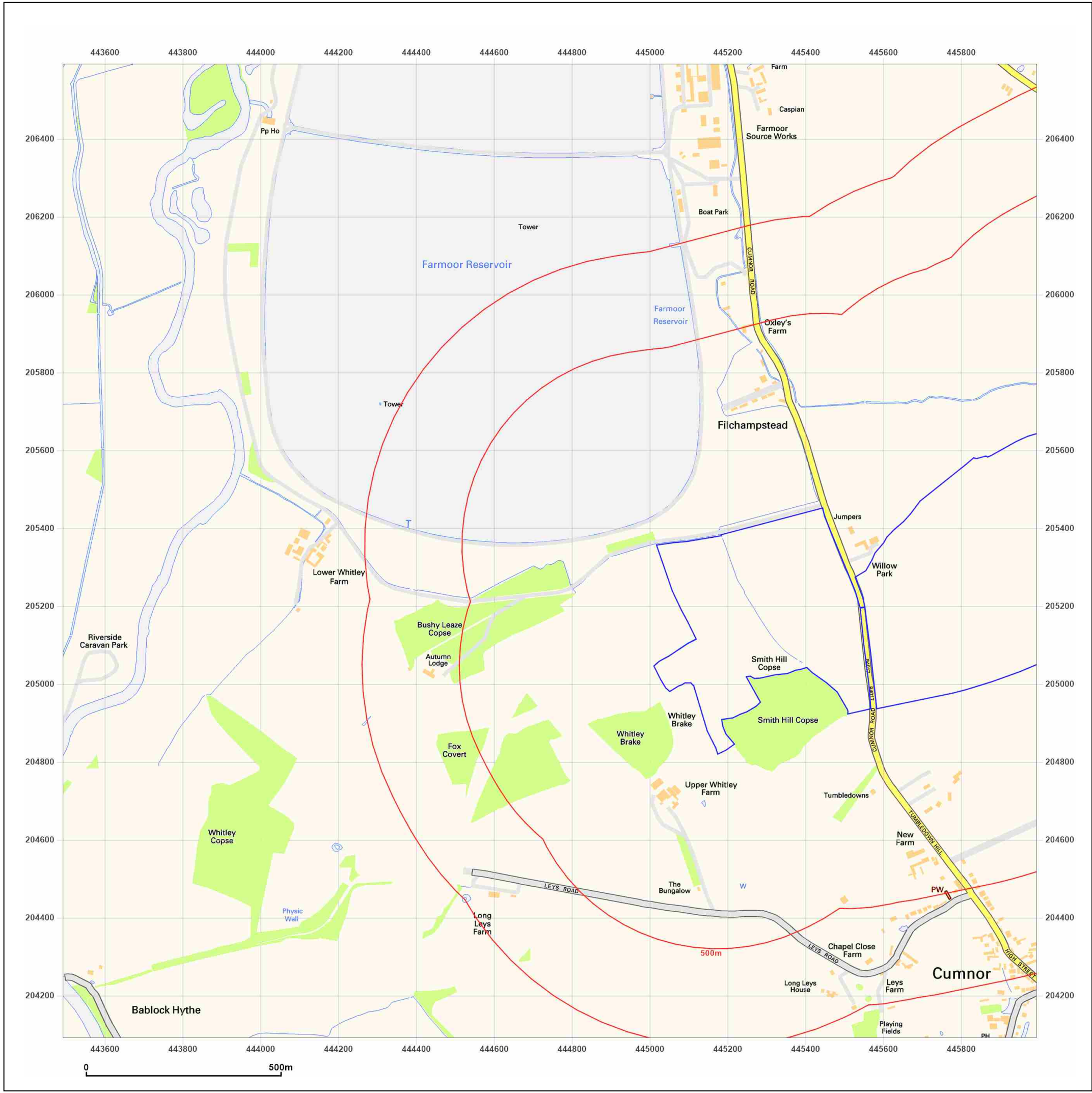


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

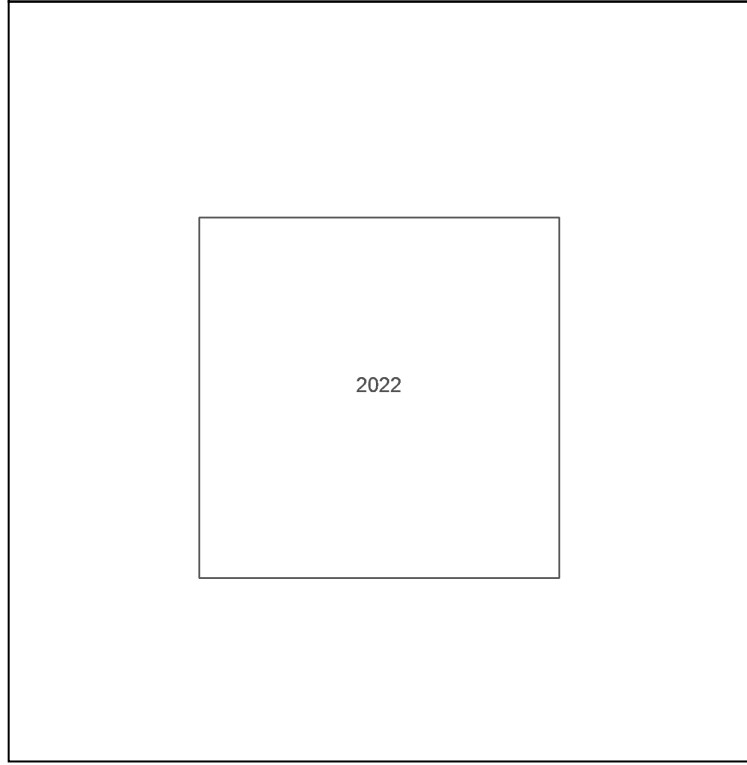
Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_1_1
Grid Ref: 444743, 205342

Map Name: National Grid

Map date: 2022

Scale: 1:10,000

Printed at: 1:10,000

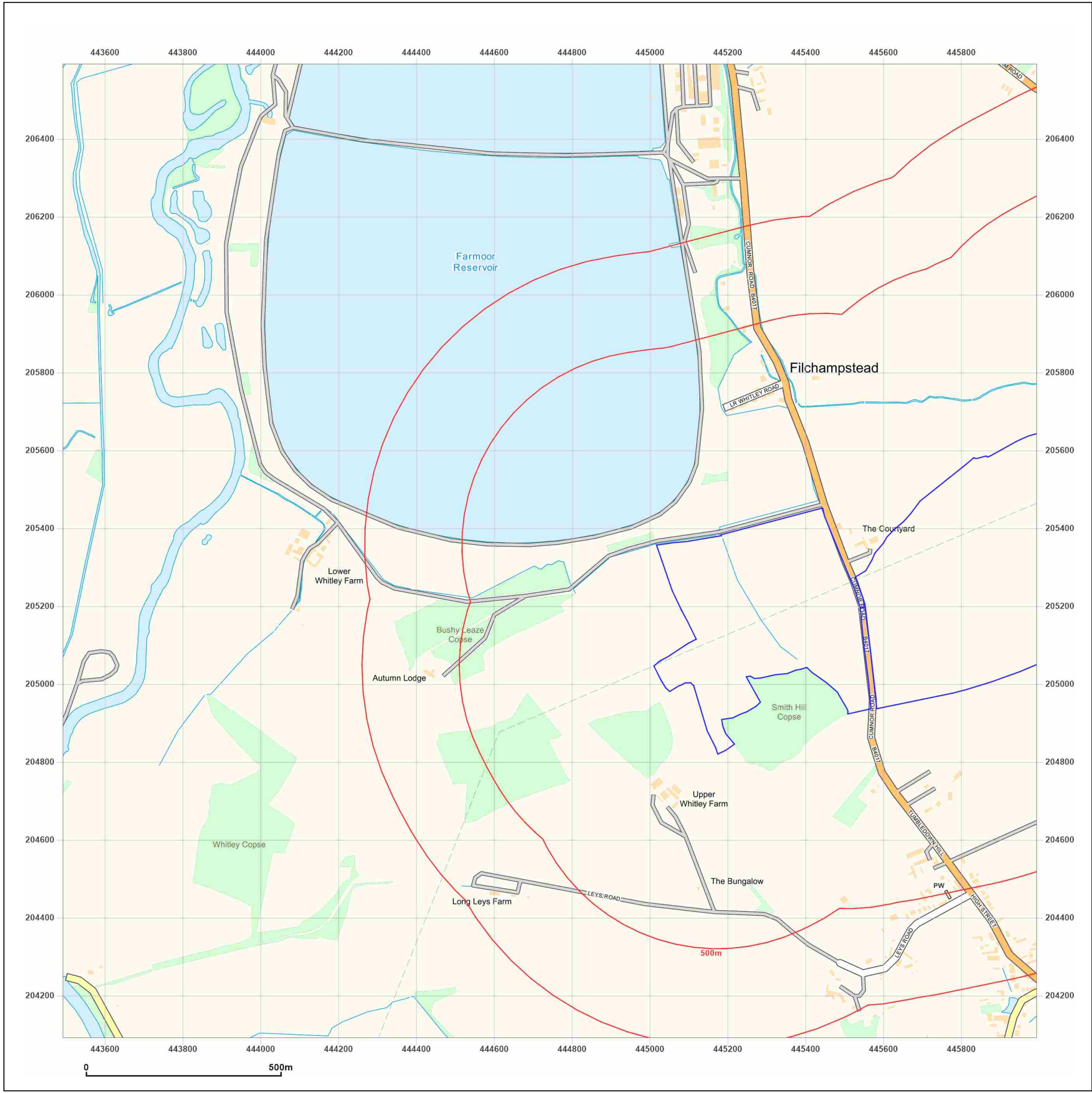


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_2_1
Grid Ref: 447243, 205342

Map Name: County Series

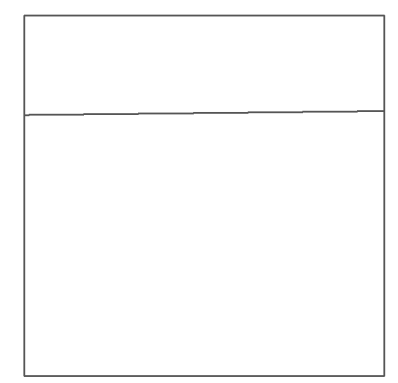
Map date: 1876

Scale: 1:10,560

Printed at: 1:10,560



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

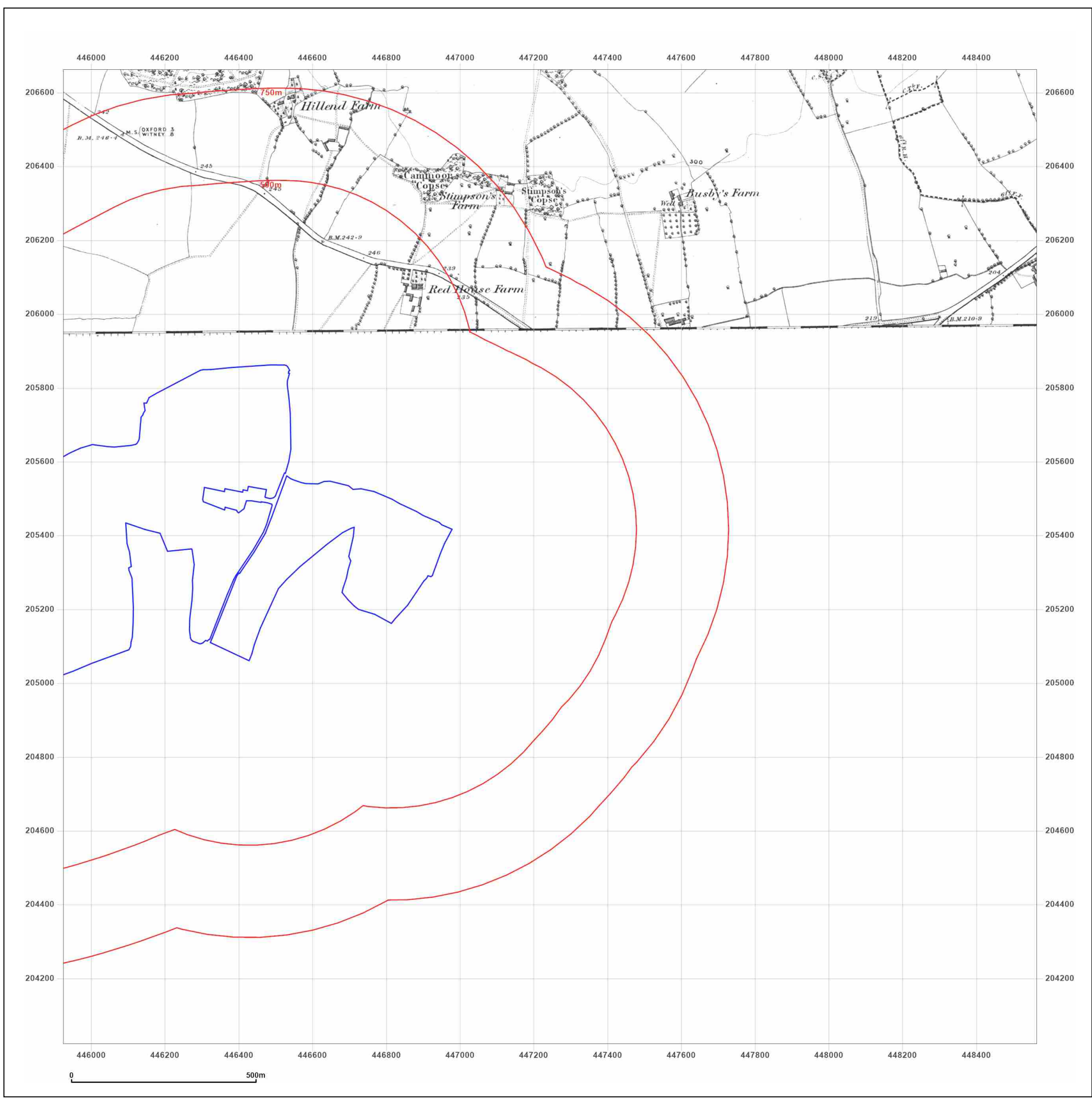


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_2_1
Grid Ref: 447243, 205342

Map Name: County Series

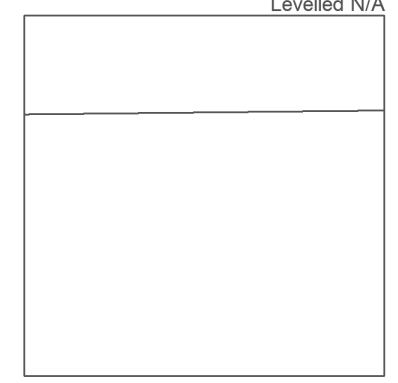
Map date: 1900

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1872
 Revised 1900
 Edition N/A
 Copyright N/A
 Levelled N/A

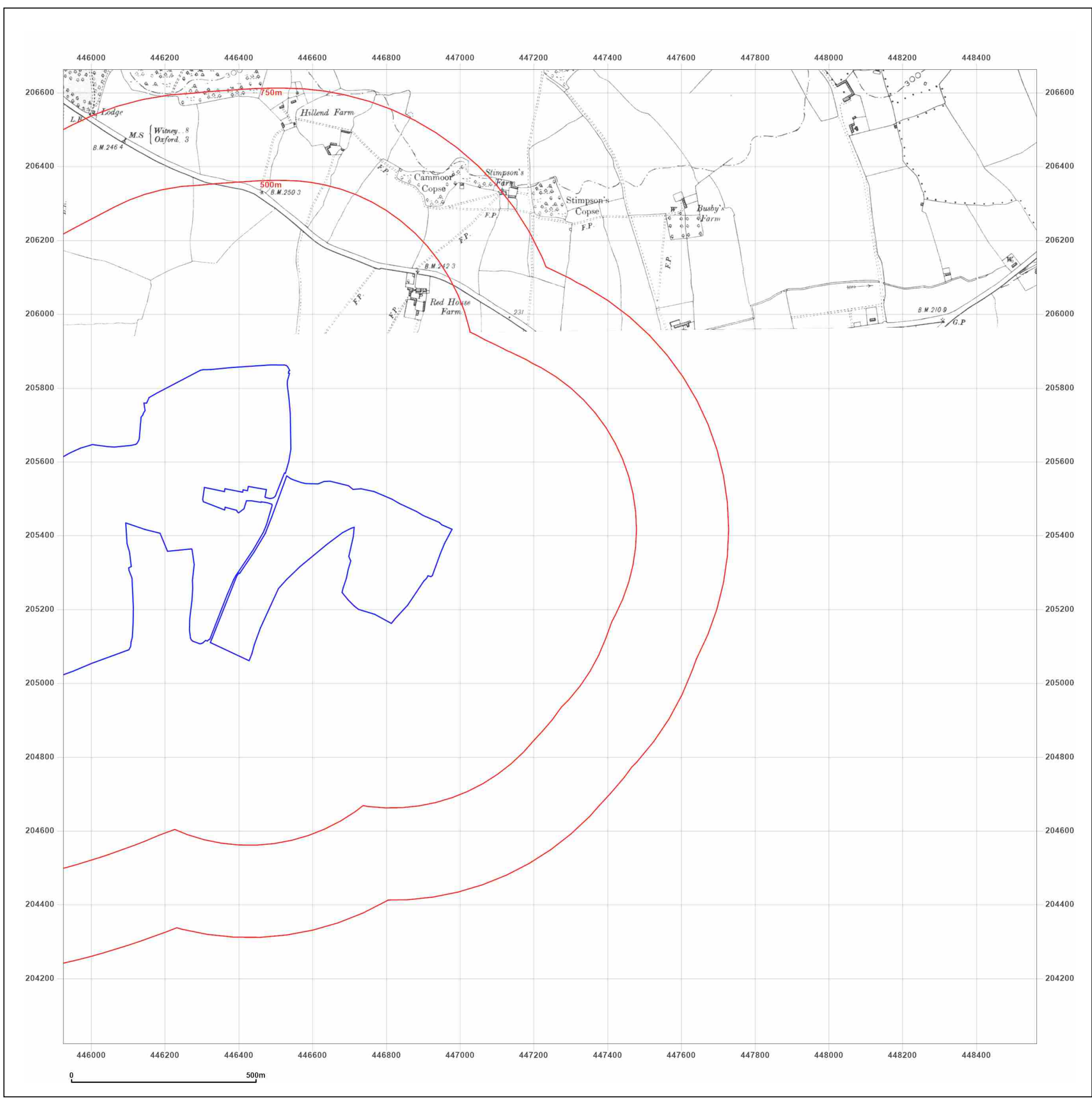


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_2_1
Grid Ref: 447243, 205342

Map Name: County Series

Map date: 1900

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
 Revised 1898
 Edition 1900
 Copyright N/A
 Levelled N/A

Surveyed 1874
 Revised 1900
 Edition N/A
 Copyright N/A
 Levelled N/A

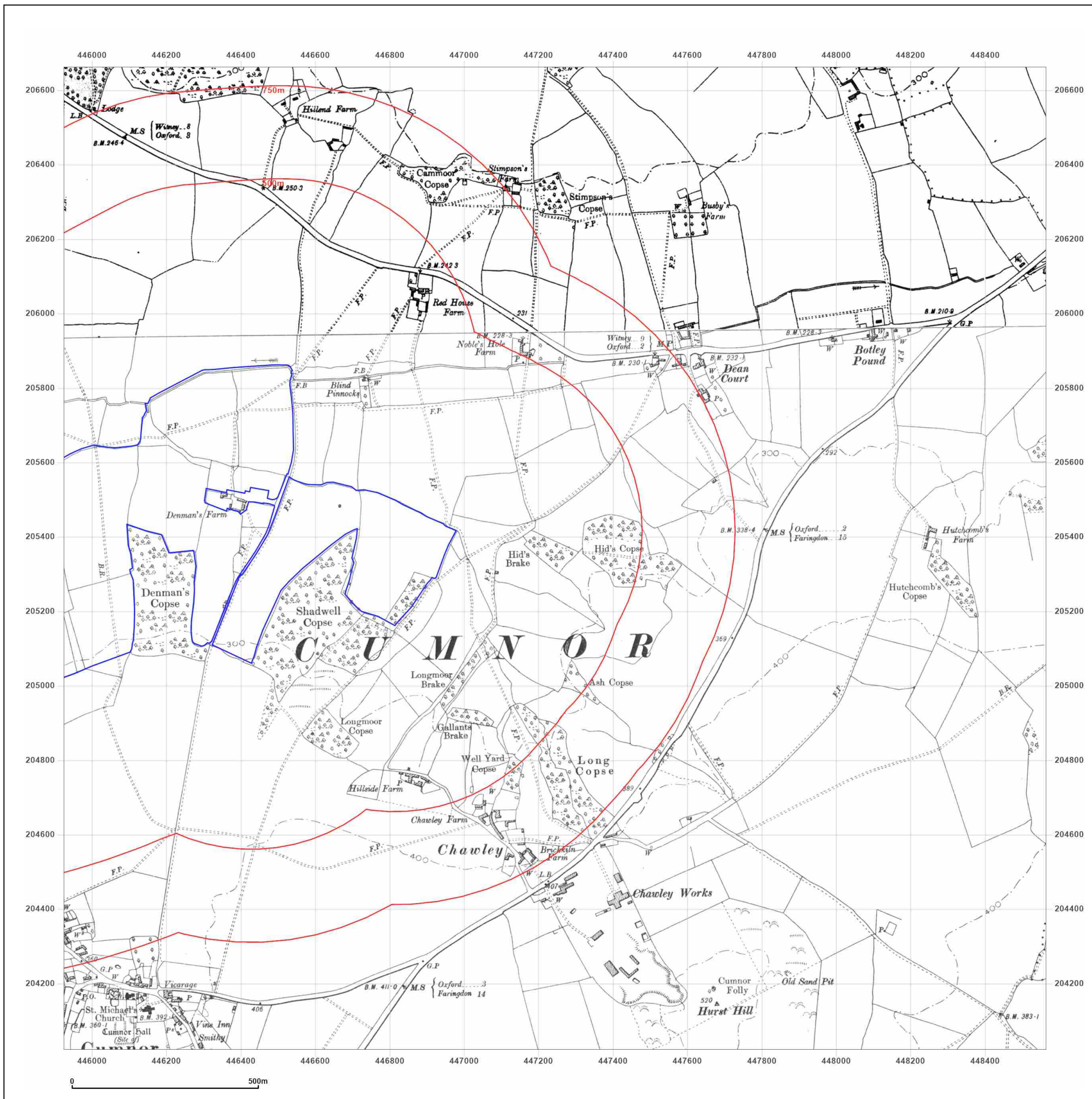


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_2_1
Grid Ref: 447243, 205342

Map Name: County Series

Map date: 1911

Scale: 1:10,560

Printed at: 1:10,560



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

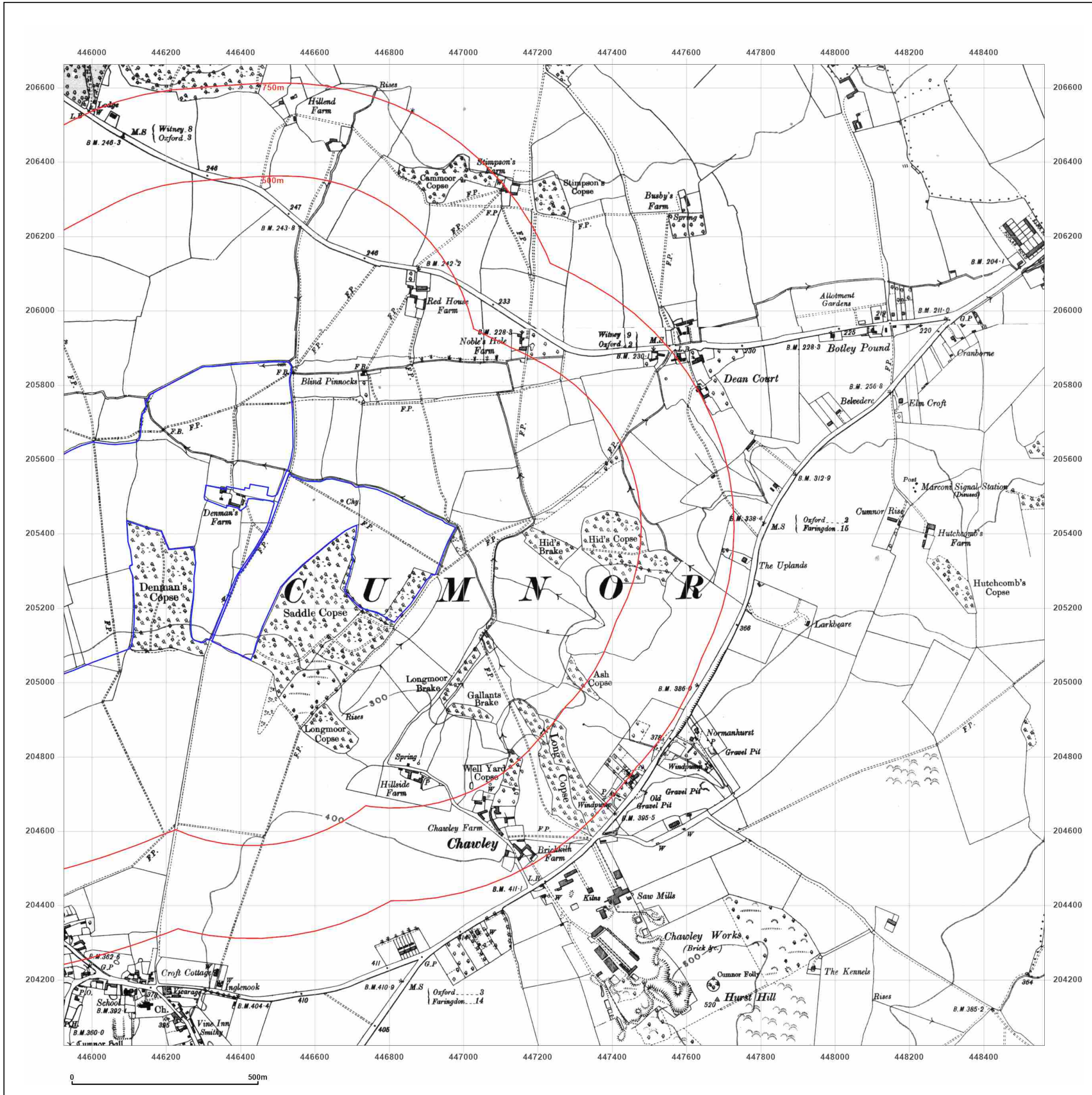


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_2_1
Grid Ref: 447243, 205342

Map Name: County Series

Map date: 1914

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1872
 Revised 1911
 Edition 1914
 Copyright N/A
 Levelled 1912

Surveyed 1872
 Revised 1911
 Edition 1914
 Copyright N/A
 Levelled 1911

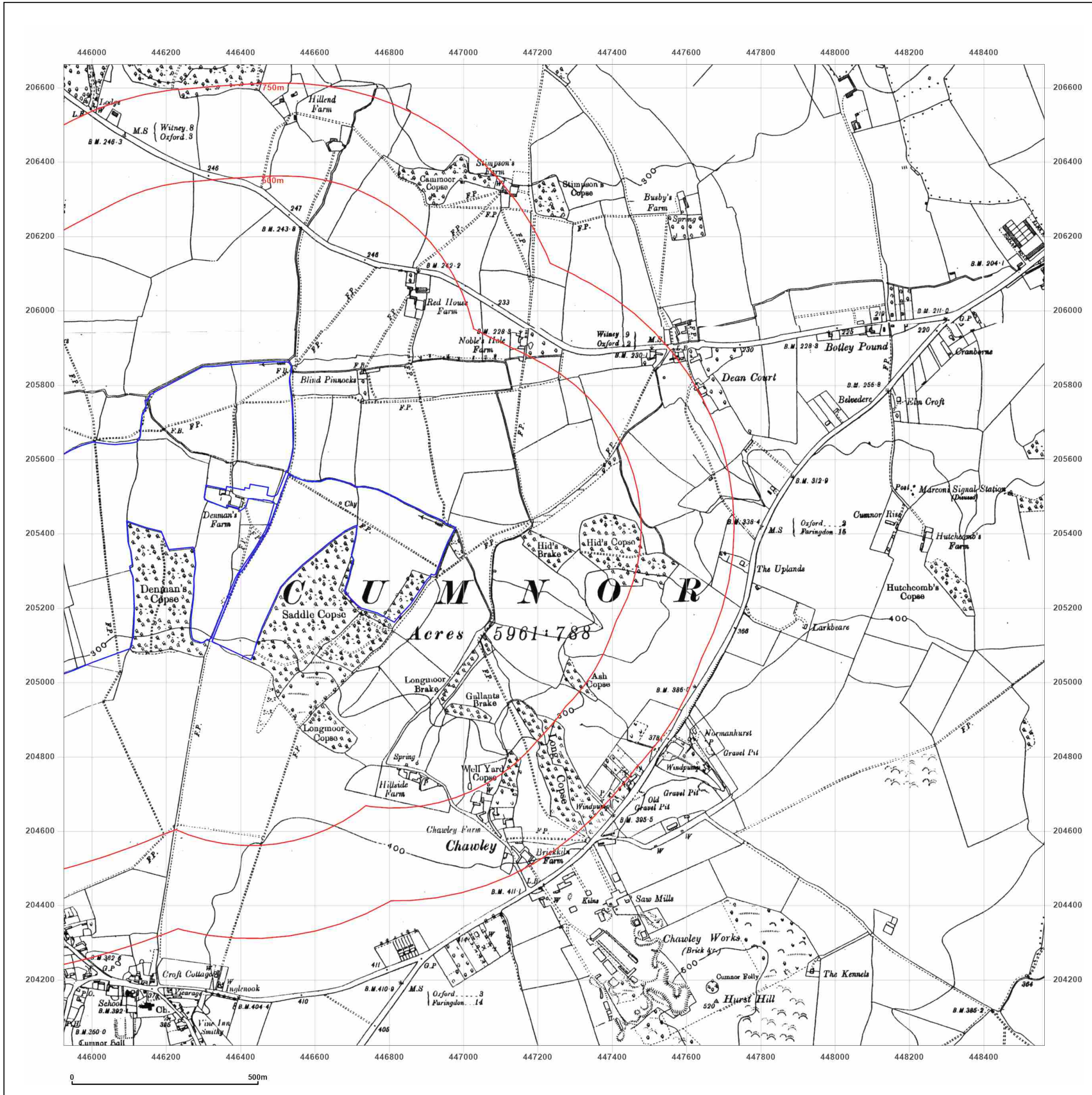


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_2_1
Grid Ref: 447243, 205342

Map Name: County Series

Map date: 1914

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1874
 Revised 1911
 Edition 1914
 Copyright N/A
 Levelled 1912

Surveyed 1874
 Revised 1911
 Edition 1914
 Copyright N/A
 Levelled 1911

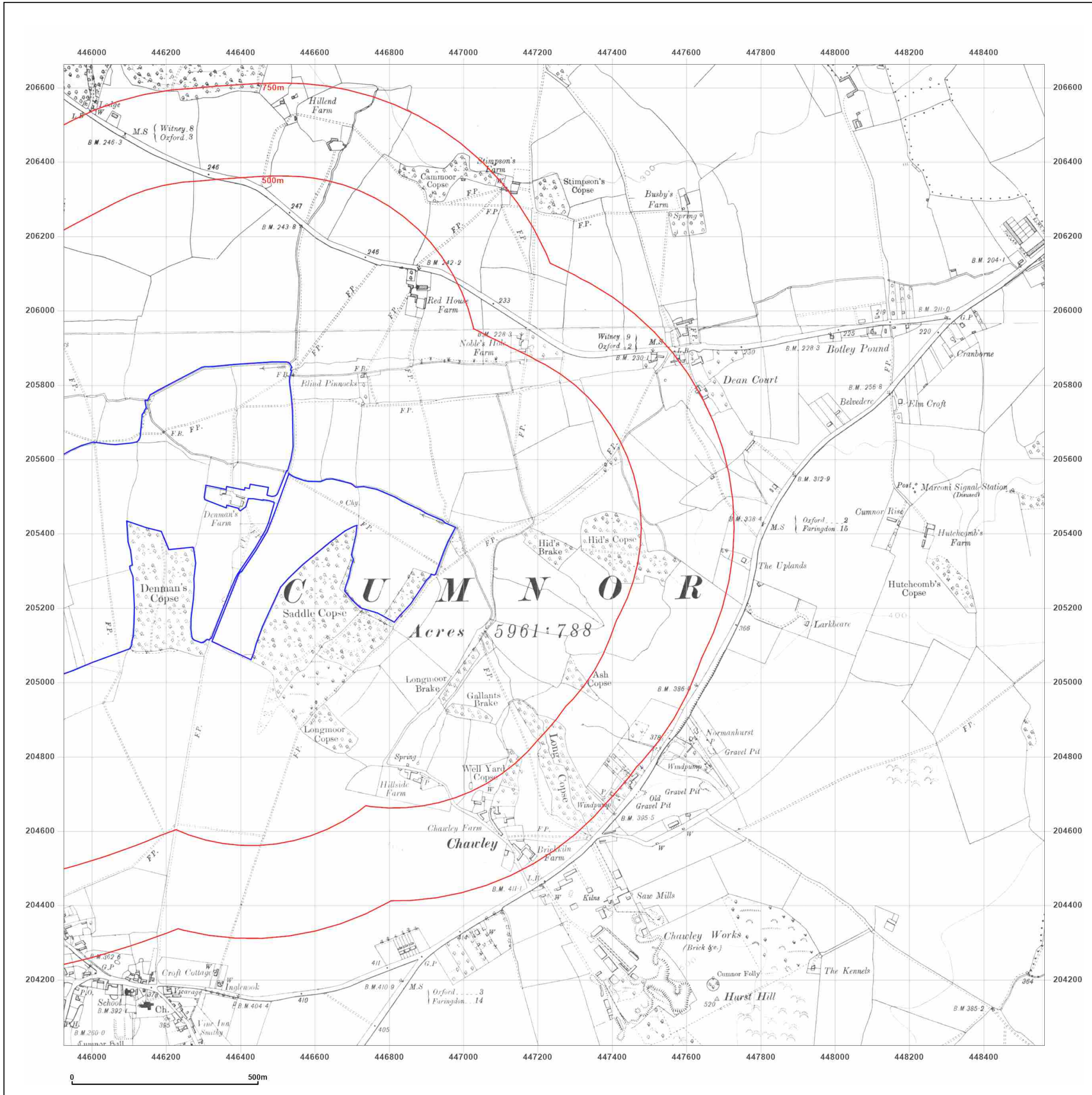


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Production date: 24 May 2022

Map legend available at:



0 500m

Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_2_1
Grid Ref: 447243, 205342

Map Name: County Series

Map date: 1922

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1874
 Revised 1919
 Edition 1922
 Copyright N/A
 Levelled 1912

Surveyed 1874
 Revised 1919
 Edition 1922
 Copyright N/A
 Levelled 1911

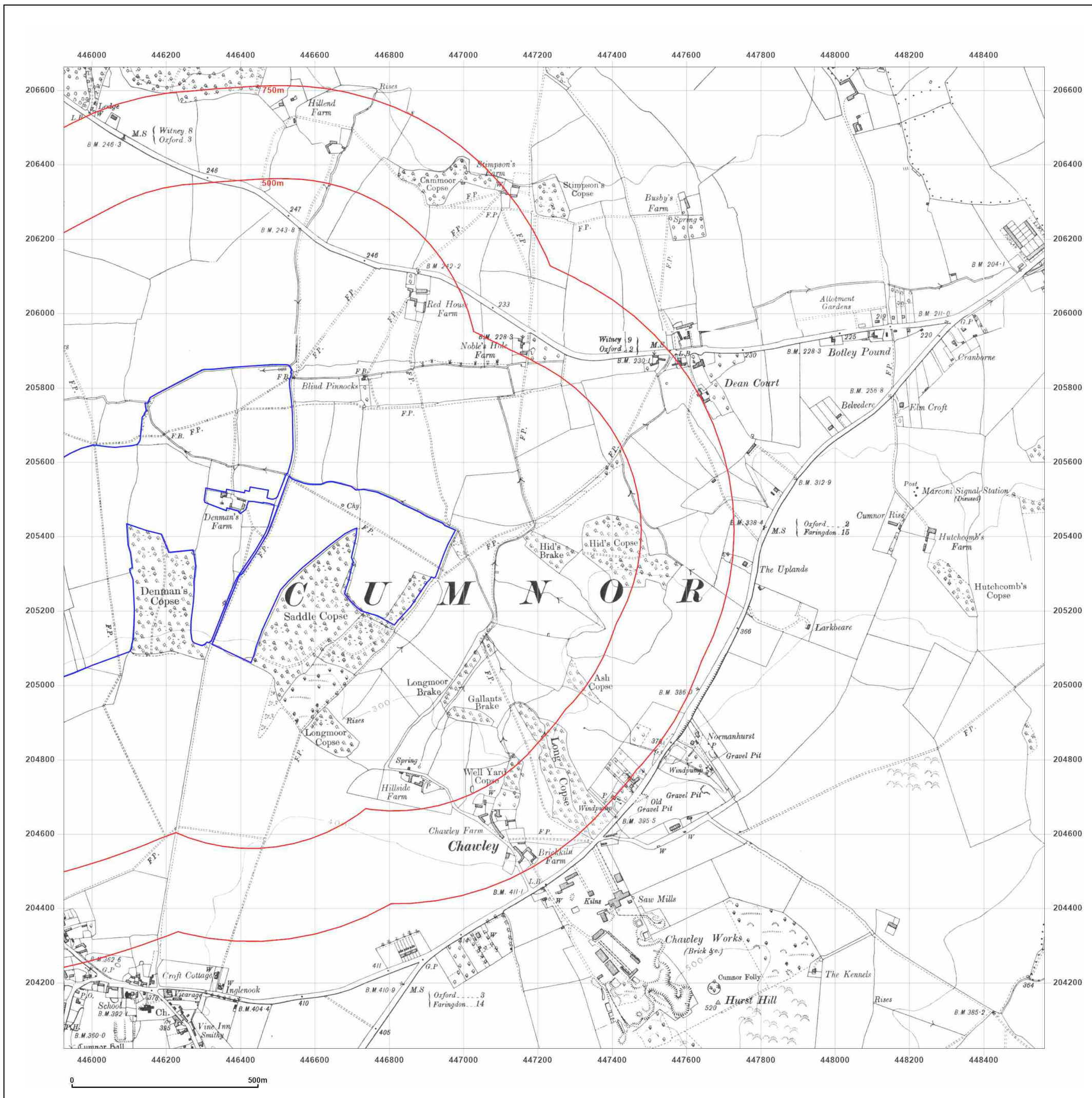


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

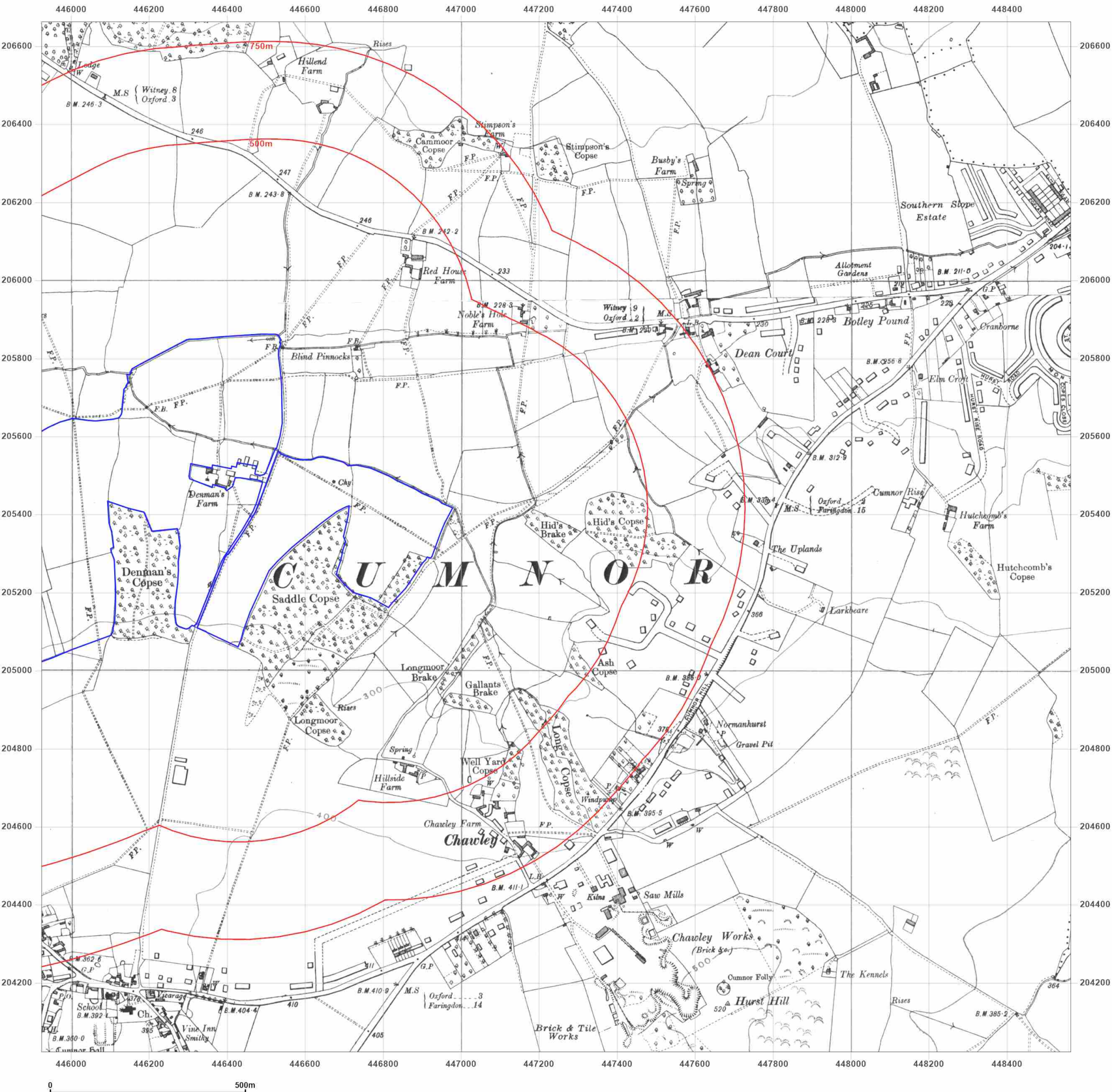
Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_2_1
Grid Ref: 447243, 205342

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1874
 Revised 1938
 Edition N/A
 Copyright N/A
 Levelled 1912

Surveyed 1874
 Revised 1938
 Edition N/A
 Copyright N/A
 Levelled N/A



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Production date: 24 May 2022

Map legend available at:

Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_2_1
Grid Ref: 447243, 205342

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1874
 Revised 1938
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1874
 Revised 1938
 Edition N/A
 Copyright N/A
 Levelled 1911

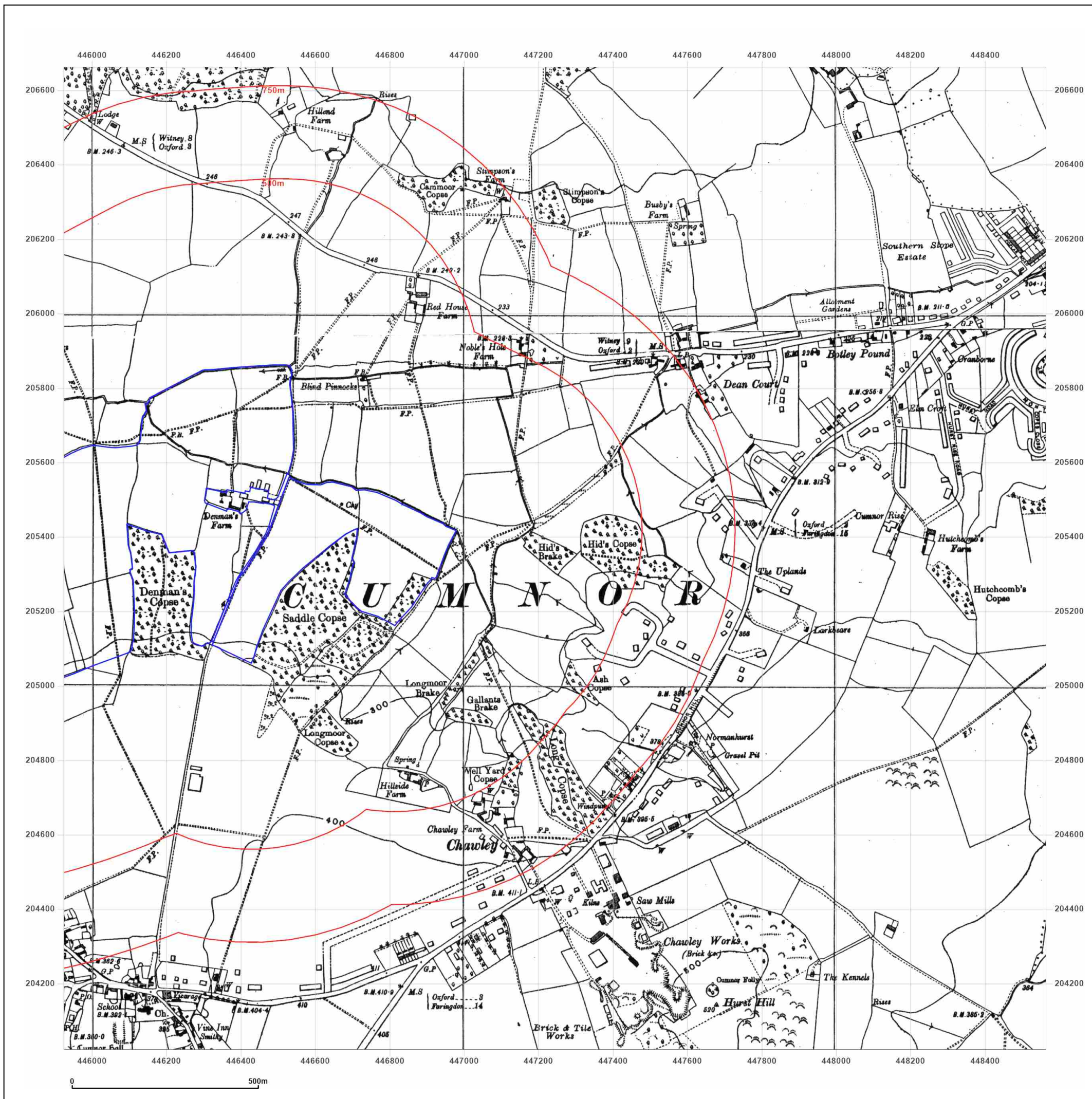


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_2_1
Grid Ref: 447243, 205342

Map Name: Provisional

Map date: 1956-1961

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
 Revised 1960
 Edition N/A
 Copyright 1961
 Levelled N/A

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

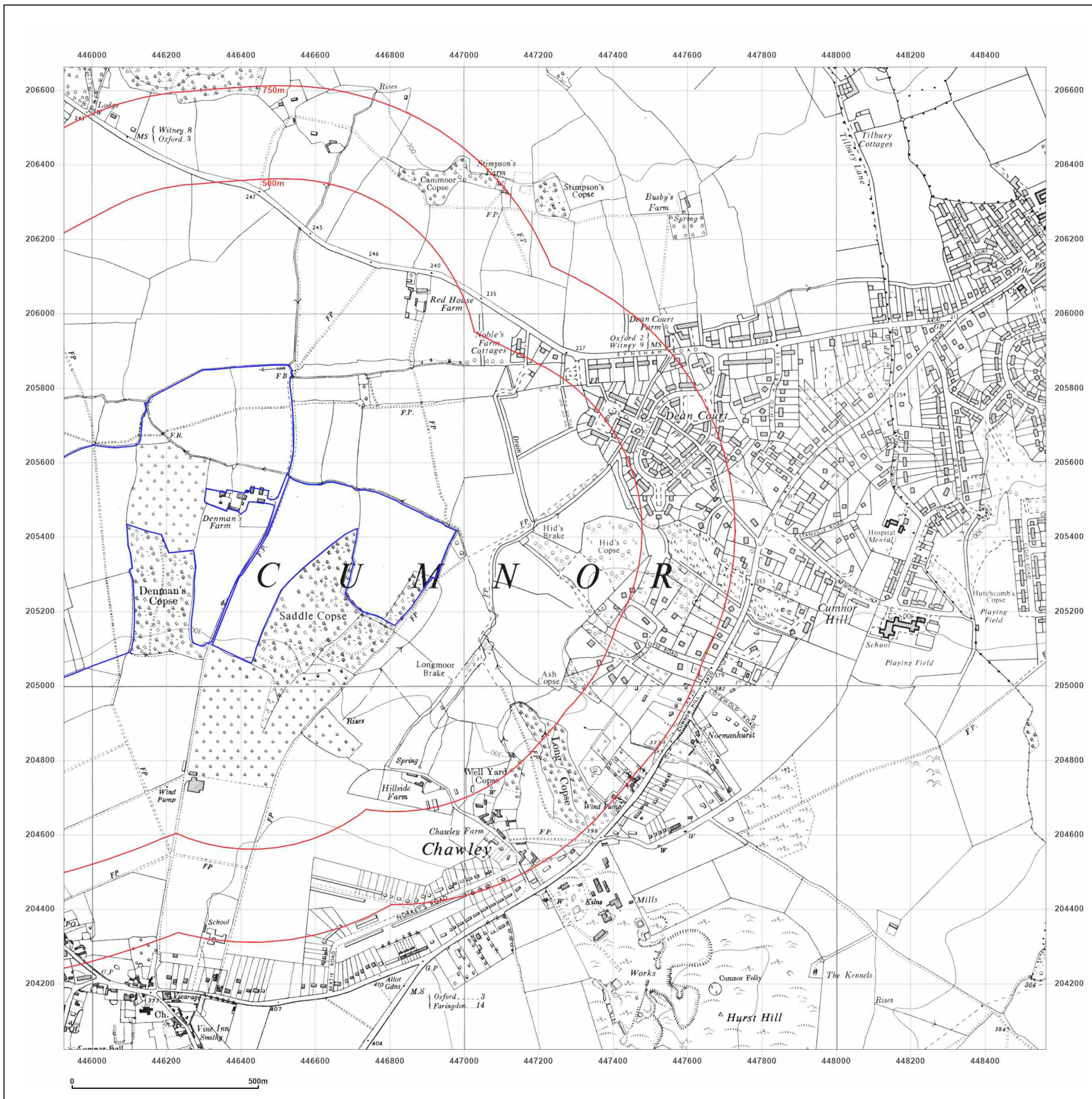


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Production date: 24 May 2022

Map legend available at:



0 500m

Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_2_1
Grid Ref: 447243, 205342

Map Name: Provisional

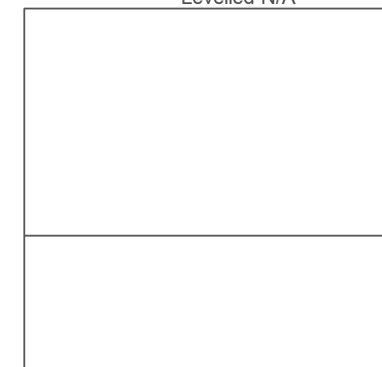
Map date: 1968

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1956
 Revised 1967
 Edition 1968
 Copyright 1961
 Levelled N/A



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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_2_1
Grid Ref: 447243, 205342

Map Name: National Grid

Map date: 1972

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1970
 Revised 1972
 Edition N/A
 Copyright 1972
 Levelled 1971

Surveyed 1970
 Revised 1972
 Edition N/A
 Copyright 1972
 Levelled 1971

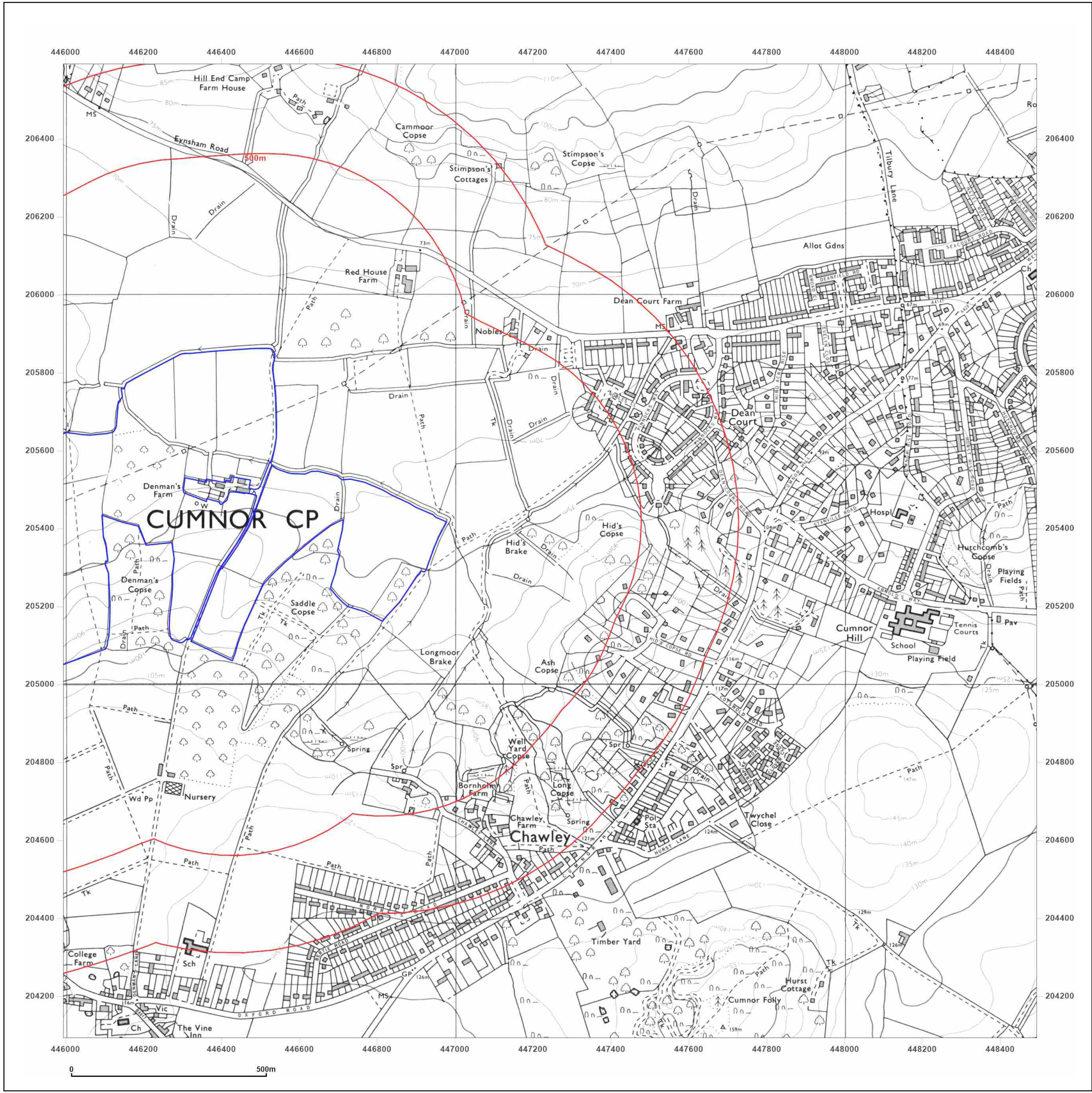


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_2_1
Grid Ref: 447243, 205342

Map Name: National Grid

Map date: 1980-1982

Scale: 1:10,000

Printed at: 1:10,000



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

Surveyed 1980
 Revised 1980
 Edition N/A
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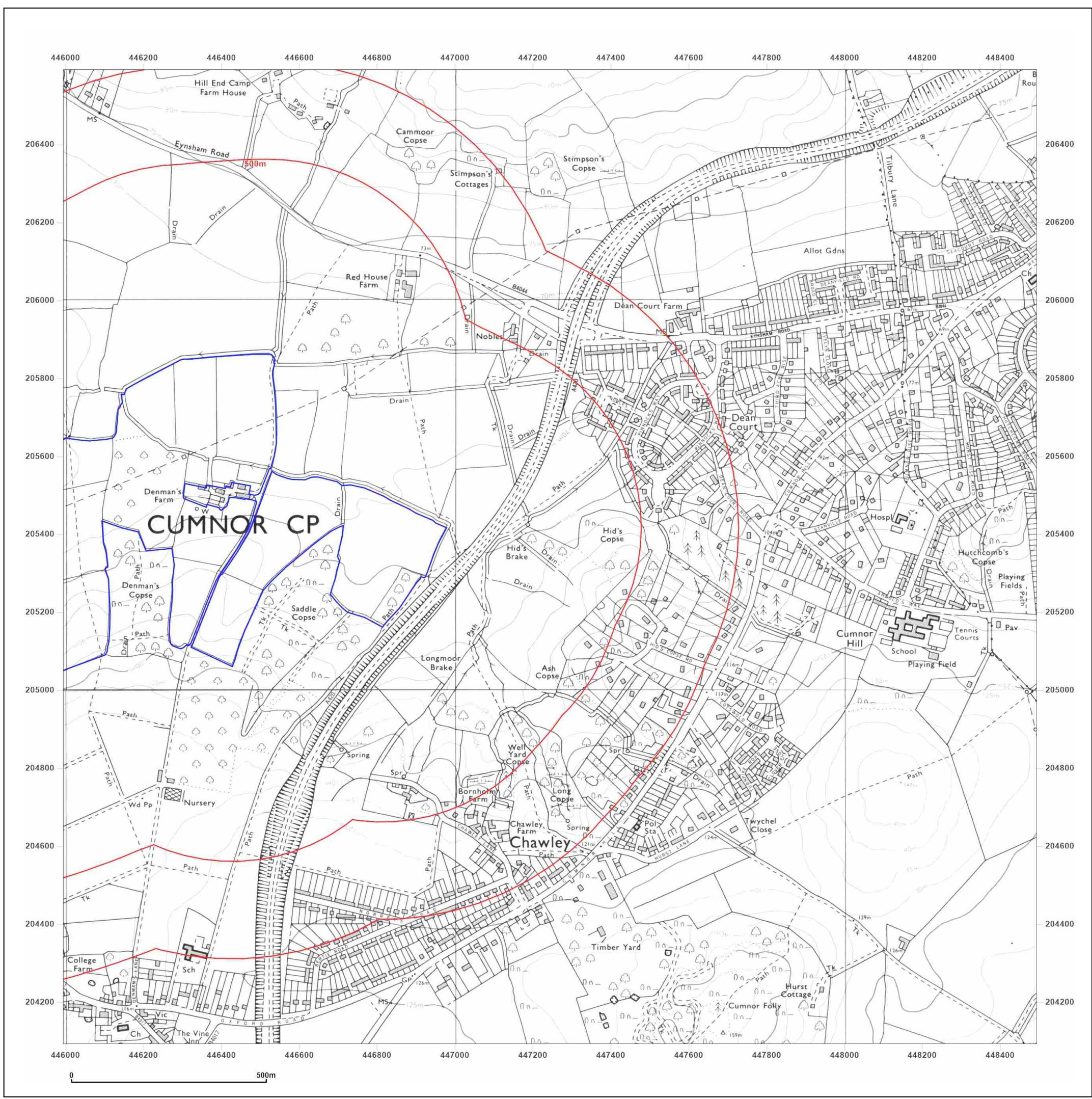


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Site Details:

South - BM Solar

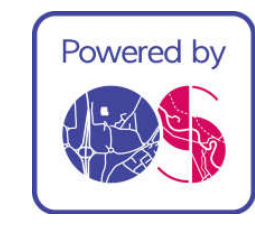
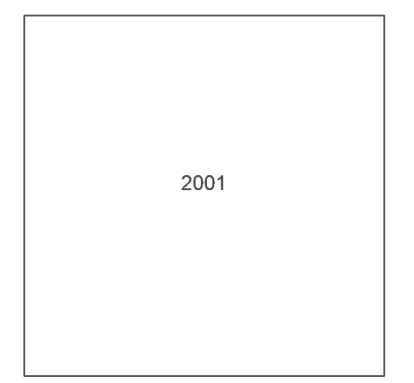
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Grid Ref: 447243, 205342

Map Name: National Grid

Map date: 2001

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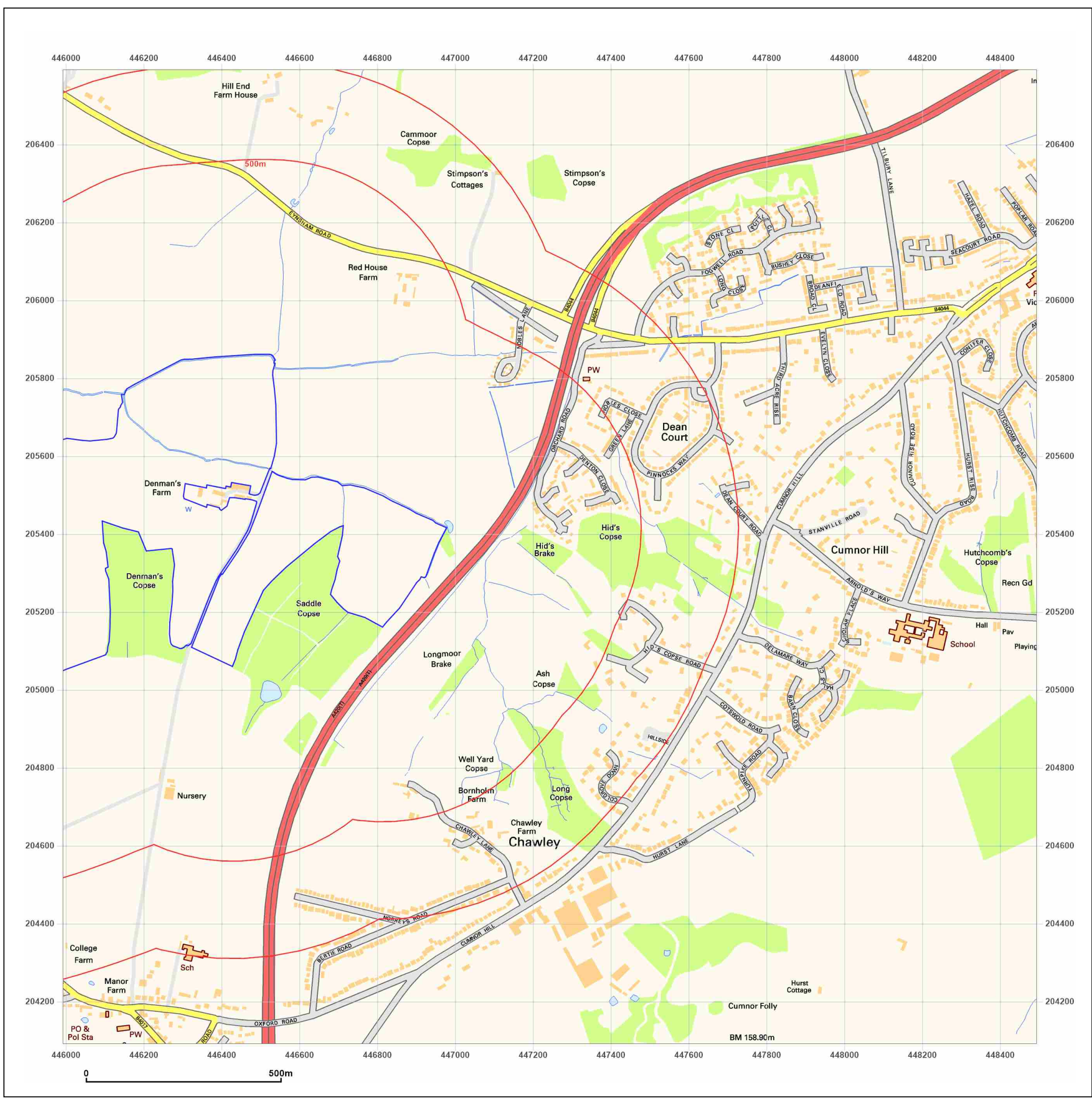


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Map legend available at:



Site Details:

South - BM Solar

Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_2_1
Grid Ref: 447243, 205342

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

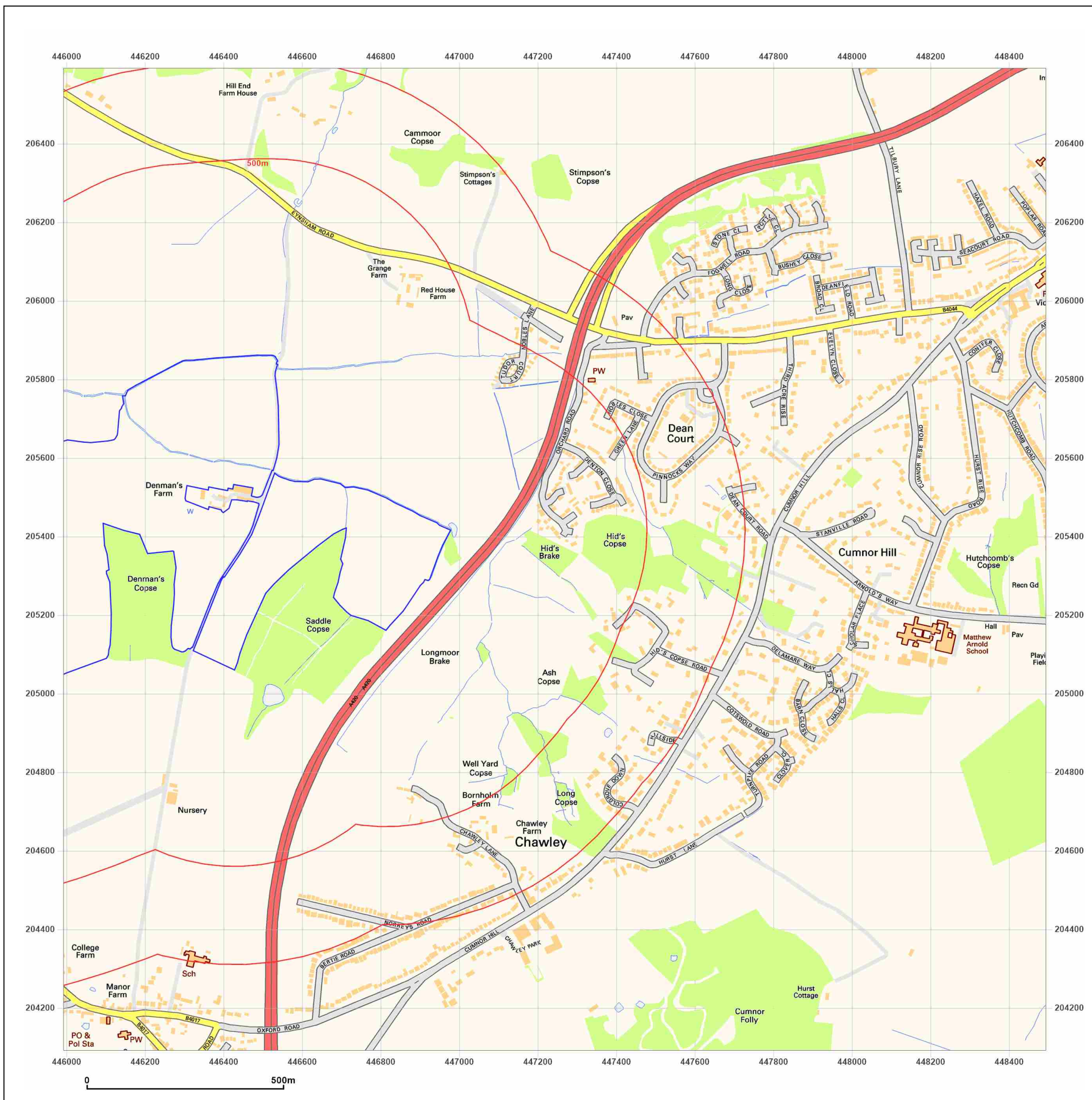


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Production date: 24 May 2022

Map legend available at:



Site Details:

South - BM Solar

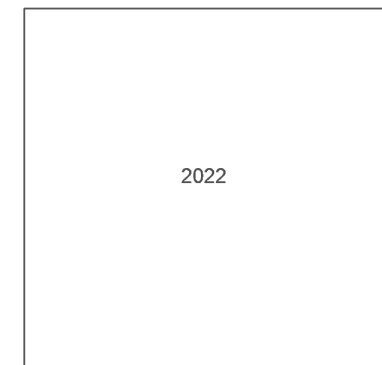
Client Ref: South - BM Solar
Report Ref: GSIP-2022-12757-10511_SS_2_1
Grid Ref: 447243, 205342

Map Name: National Grid

Map date: 2022

Scale: 1:10,000

Printed at: 1:10,000

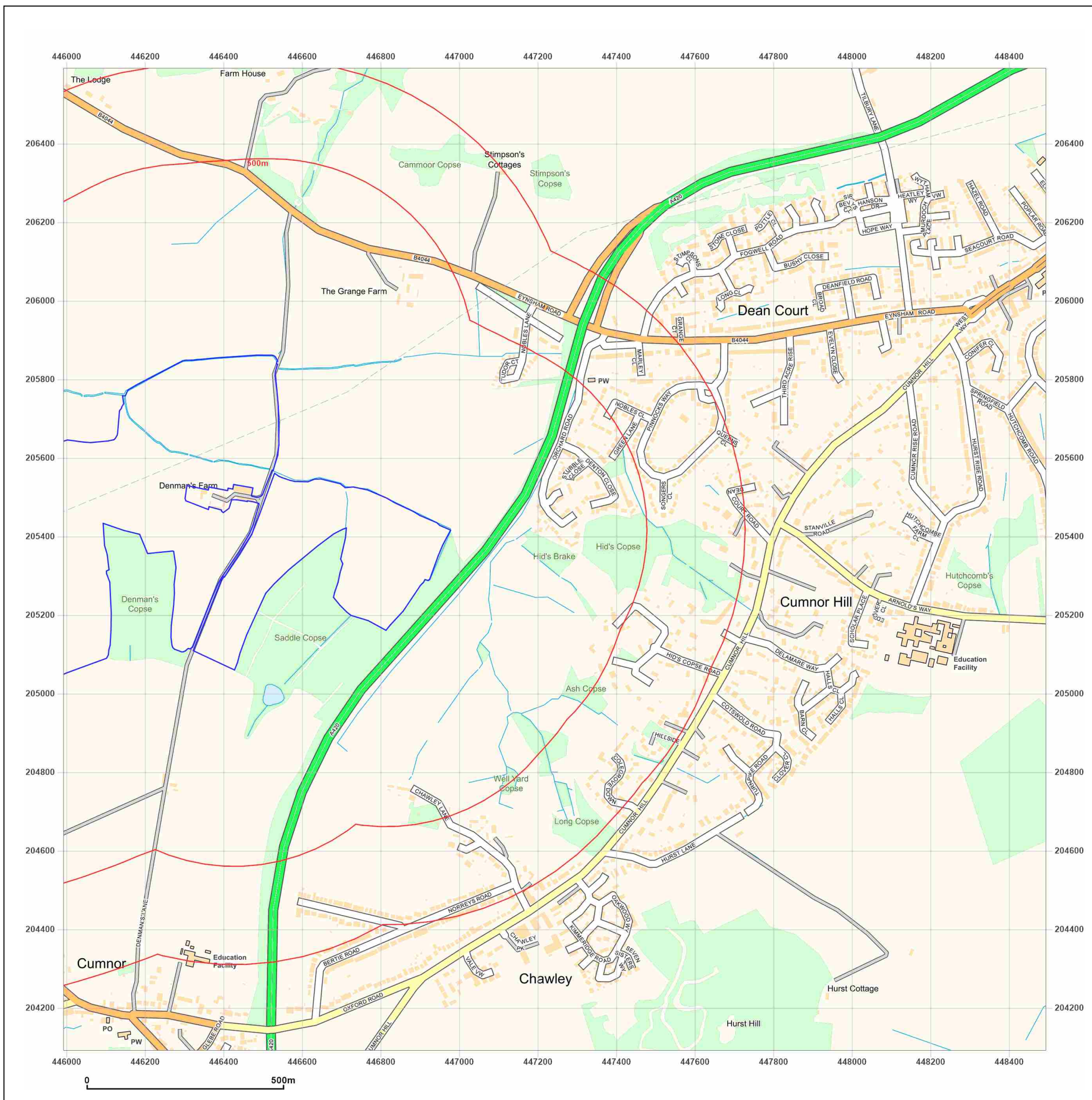


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Annex D Groundsure Insights Environmental Data Reports

South - BM Solar

Order Details

Date: 24/05/2022
Your ref: South - BM Solar
Our Ref: GSIP-2022-12757-10512

Site Details

Location: 446088 205340
Area: 84.19 ha
Authority: [Vale of White Horse District Council](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

N/A: >10ha



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Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	<u>Historical industrial land uses</u>	2	0	1	5	-
14	1.2	<u>Historical tanks</u>	0	0	0	2	-
14	1.3	<u>Historical energy features</u>	0	0	0	3	-
15	1.4	Historical petrol stations	0	0	0	0	-
15	1.5	Historical garages	0	0	0	0	-
15	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
16	2.1	<u>Historical industrial land uses</u>	3	0	1	5	-
17	2.2	<u>Historical tanks</u>	0	0	0	5	-
17	2.3	<u>Historical energy features</u>	0	0	0	7	-
18	2.4	Historical petrol stations	0	0	0	0	-
18	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
19	3.1	Active or recent landfill	0	0	0	0	-
19	3.2	Historical landfill (BGS records)	0	0	0	0	-
20	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
20	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
20	3.5	<u>Historical waste sites</u>	0	0	0	2	-
21	3.6	Licensed waste sites	0	0	0	0	-
21	3.7	<u>Waste exemptions</u>	0	7	2	0	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
23	4.1	<u>Recent industrial land uses</u>	4	2	1	-	-
24	4.2	Current or recent petrol stations	0	0	0	0	-
24	4.3	Electricity cables	0	0	0	0	-
24	4.4	Gas pipelines	0	0	0	0	-
24	4.5	Sites determined as Contaminated Land	0	0	0	0	-



25	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
25	4.7	Regulated explosive sites	0	0	0	0	-
25	4.8	Hazardous substance storage/usage	0	0	0	0	-
25	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
25	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
26	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
26	4.12	Radioactive Substance Authorisations	0	0	0	0	-
26	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	1	0	-
26	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
27	4.15	Pollutant release to public sewer	0	0	0	0	-
27	4.16	List 1 Dangerous Substances	0	0	0	0	-
27	4.17	List 2 Dangerous Substances	0	0	0	0	-
27	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	1	0	3	-
28	4.19	Pollution inventory substances	0	0	0	0	-
28	4.20	Pollution inventory waste transfers	0	0	0	0	-
28	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
29	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
31	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
33	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
35	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
35	5.5	Groundwater vulnerability- local information	None (within 0m)				
36	5.6	Groundwater abstractions	0	0	0	0	0
37	5.7	<u>Surface water abstractions</u>	0	0	2	0	4
38	5.8	<u>Potable abstractions</u>	0	0	0	0	4
39	5.9	Source Protection Zones	0	0	0	0	-
39	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
40	6.1	<u>Water Network (OS MasterMap)</u>	21	24	34	-	-



47	6.2	<u>Surface water features</u>	1	6	21	-	-
47	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
47	6.4	<u>WFD Surface water bodies</u>	1	0	1	-	-
48	6.5	WFD Groundwater bodies	0	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
49	7.1	<u>Risk of flooding from rivers and the sea</u>	High (within 50m)				
50	7.2	Historical Flood Events	0	0	0	-	-
50	7.3	Flood Defences	0	0	0	-	-
50	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
50	7.5	Flood Storage Areas	0	0	0	-	-
51	7.6	<u>Flood Zone 2</u>	Identified (within 50m)				
52	7.7	<u>Flood Zone 3</u>	Identified (within 50m)				
Page	Section	Surface water flooding					
53	8.1	<u>Surface water flooding</u>	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
55	9.1	<u>Groundwater flooding</u>	Negligible (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
56	10.1	<u>Sites of Special Scientific Interest (SSSI)</u>	0	0	0	0	4
57	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
57	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
57	10.4	Special Protection Areas (SPA)	0	0	0	0	0
58	10.5	National Nature Reserves (NNR)	0	0	0	0	0
58	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
58	10.7	<u>Designated Ancient Woodland</u>	3	0	4	4	15
59	10.8	Biosphere Reserves	0	0	0	0	0
60	10.9	Forest Parks	0	0	0	0	0
60	10.10	Marine Conservation Zones	0	0	0	0	0
60	10.11	<u>Green Belt</u>	1	0	0	0	0
60	10.12	Proposed Ramsar sites	0	0	0	0	0



61	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
61	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
61	10.15	Nitrate Sensitive Areas	0	0	0	0	0
61	10.16	<u>Nitrate Vulnerable Zones</u>	1	0	2	1	4
63	10.17	<u>SSSI Impact Risk Zones</u>	4	-	-	-	-
65	10.18	<u>SSSI Units</u>	0	0	0	0	7
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
68	11.1	World Heritage Sites	0	0	0	-	-
69	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
69	11.3	National Parks	0	0	0	-	-
69	11.4	<u>Listed Buildings</u>	0	0	1	-	-
70	11.5	Conservation Areas	0	0	0	-	-
70	11.6	Scheduled Ancient Monuments	0	0	0	-	-
70	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
71	12.1	<u>Agricultural Land Classification</u>	Grade 2 (within 250m)				
72	12.2	Open Access Land	0	0	0	-	-
72	12.3	<u>Tree Felling Licences</u>	0	0	1	-	-
73	12.4	Environmental Stewardship Schemes	0	0	0	-	-
73	12.5	<u>Countryside Stewardship Schemes</u>	0	0	3	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
74	13.1	<u>Priority Habitat Inventory</u>	6	5	16	-	-
76	13.2	<u>Habitat Networks</u>	0	0	1	-	-
76	13.3	Open Mosaic Habitat	0	0	0	-	-
76	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
77	14.1	<u>10k Availability</u>	Identified (within 500m)				
78	14.2	<u>Artificial and made ground (10k)</u>	0	0	0	1	-
79	14.3	<u>Superficial geology (10k)</u>	0	0	1	2	-



80	14.4	Landslip (10k)	0	0	0	0	-
81	14.5	<u>Bedrock geology (10k)</u>	4	0	5	5	-
82	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
83	15.1	<u>50k Availability</u>	Identified (within 500m)				
84	15.2	<u>Artificial and made ground (50k)</u>	0	0	0	1	-
85	15.3	Artificial ground permeability (50k)	0	0	-	-	-
86	15.4	<u>Superficial geology (50k)</u>	0	0	4	0	-
87	15.5	Superficial permeability (50k)	None (within 50m)				
87	15.6	Landslip (50k)	0	0	0	0	-
87	15.7	Landslip permeability (50k)	None (within 50m)				
88	15.8	<u>Bedrock geology (50k)</u>	1	1	1	1	-
89	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
89	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
90	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence					
91	17.1	<u>Shrink swell clays</u>	Moderate (within 50m)				
93	17.2	<u>Running sands</u>	Negligible (within 50m)				
95	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
97	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
98	17.5	<u>Landslides</u>	Low (within 50m)				
100	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
102	18.1	Natural cavities	0	0	0	0	-
103	18.2	BritPits	0	0	0	0	-
103	18.3	<u>Surface ground workings</u>	0	1	0	-	-
103	18.4	Underground workings	0	0	0	0	0
103	18.5	<u>Historical Mineral Planning Areas</u>	0	0	0	1	-



104	18.6	Non-coal mining	0	0	0	0	0
104	18.7	Mining cavities	0	0	0	0	0
104	18.8	JPB mining areas	None (within 0m)				
104	18.9	Coal mining	None (within 0m)				
104	18.10	Brine areas	None (within 0m)				
105	18.11	Gypsum areas	None (within 0m)				
105	18.12	Tin mining	None (within 0m)				
105	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
106	19.1	Radon	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
107	20.1	BGS Estimated Background Soil Chemistry	11	11	-	-	-
108	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
109	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
110	21.1	Underground railways (London)	0	0	0	-	-
110	21.2	Underground railways (Non-London)	0	0	0	-	-
110	21.3	Railway tunnels	0	0	0	-	-
110	21.4	Historical railway and tunnel features	0	0	0	-	-
110	21.5	Royal Mail tunnels	0	0	0	-	-
111	21.6	Historical railways	0	0	0	-	-
111	21.7	Railways	0	0	0	-	-
111	21.8	Crossrail 1	0	0	0	0	-
111	21.9	Crossrail 2	0	0	0	0	-
111	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 24/08/2019

Site Area: 84.19ha



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Date: 24 May 2022



Recent site history - 2018 aerial photograph



Capture Date: 28/06/2018

Site Area: 84.19ha



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Date: 24 May 2022

Recent site history - 2015 aerial photograph



Capture Date: 10/09/2015

Site Area: 84.19ha



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08444 159 000

Date: 24 May 2022

Recent site history - 2000 aerial photograph



Capture Date: 12/08/2000

Site Area: 84.19ha



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Date: 24 May 2022

Recent site history - 1999 aerial photograph



Capture Date: 02/09/1999

Site Area: 84.19ha



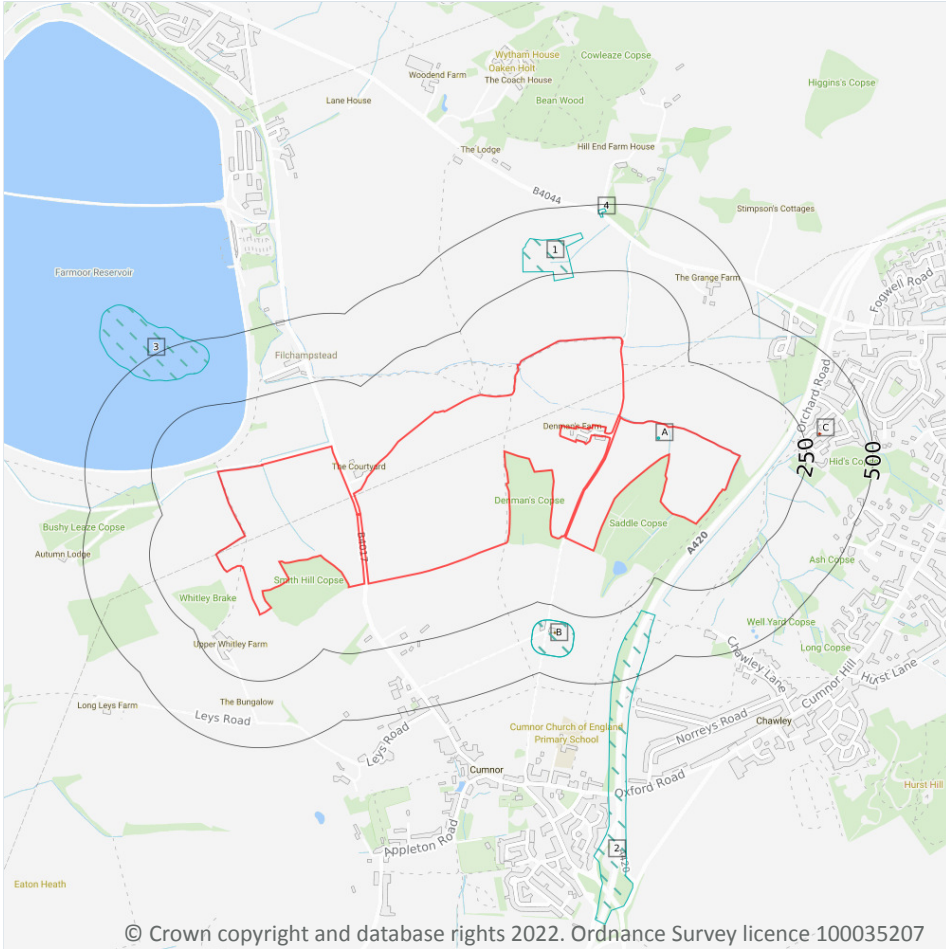
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Date: 24 May 2022

1 Past land use



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

1.1 Historical industrial land uses

Records within 500m **8**

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	Chimney	1922 - 1938	1785306

ID	Location	Land use	Dates present	Group ID
A	On site	Chimney	1914	1829806
1	227m N	Brewery	1938	1767017
2	288m SE	Cuttings	1980	1751469
B	291m S	Nursery	1980	1834829
B	291m S	Nursery	1971	1843795
3	378m N	Unspecified Disused Pits	1970	1843353
4	452m N	Police Station	1938	1772600

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

2

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
B	338m SW	Unspecified Tank	1970 - 1994	293141
B	339m SW	Unspecified Tank	1988 - 1989	288904

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

3

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

Features are displayed on the Past land use map on **page 13**



ID	Location	Land use	Dates present	Group ID
C	308m E	Electricity Substation	1986 - 1994	176700
C	308m E	Electricity Substation	1986 - 1991	175491
C	309m E	Electricity Substation	1994	172251

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

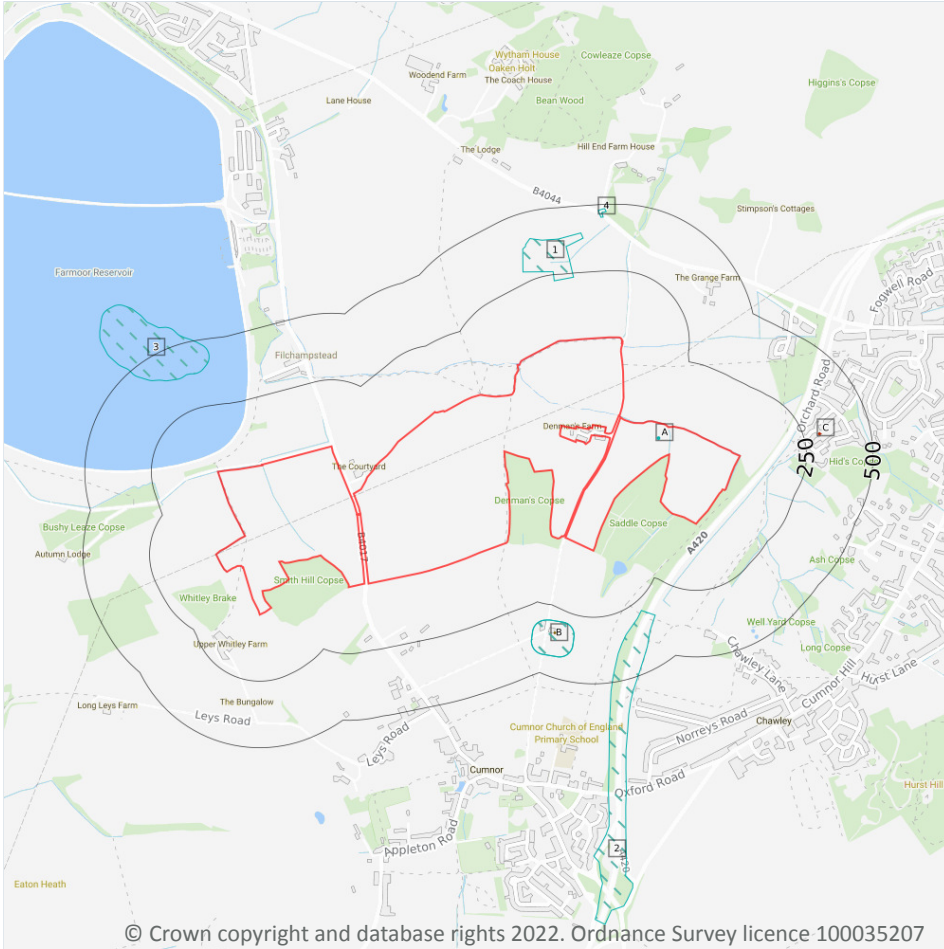
0

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

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






2 Past land use - un-grouped



Site Outline

Search buffers in metres (m)

-  Historical industrial land uses
-  Historical tanks
-  Historical energy features

2.1 Historical industrial land uses

Records within 500m **9**

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 16**

ID	Location	Land Use	Date	Group ID
A	On site	Chimney	1938	1785306
A	On site	Chimney	1922	1785306
A	On site	Chimney	1914	1829806

ID	Location	Land Use	Date	Group ID
1	227m N	Brewery	1938	1767017
2	288m SE	Cuttings	1980	1751469
B	291m S	Nursery	1971	1843795
B	291m S	Nursery	1980	1834829
3	378m N	Unspecified Disused Pits	1970	1843353
4	452m N	Police Station	1938	1772600

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

5

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 16**

ID	Location	Land Use	Date	Group ID
B	338m SW	Unspecified Tank	1970	293141
B	339m SW	Unspecified Tank	1994	293141
B	339m SW	Unspecified Tank	1988	288904
B	339m SW	Unspecified Tank	1989	288904
B	339m SW	Unspecified Tank	1989	288904

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

7

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

Features are displayed on the Past land use - un-grouped map on **page 16**



ID	Location	Land Use	Date	Group ID
C	308m E	Electricity Substation	1986	176700
C	308m E	Electricity Substation	1991	176700
C	308m E	Electricity Substation	1992	176700
C	308m E	Electricity Substation	1994	176700
C	308m E	Electricity Substation	1986	175491
C	308m E	Electricity Substation	1991	175491
C	309m E	Electricity Substation	1994	172251

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

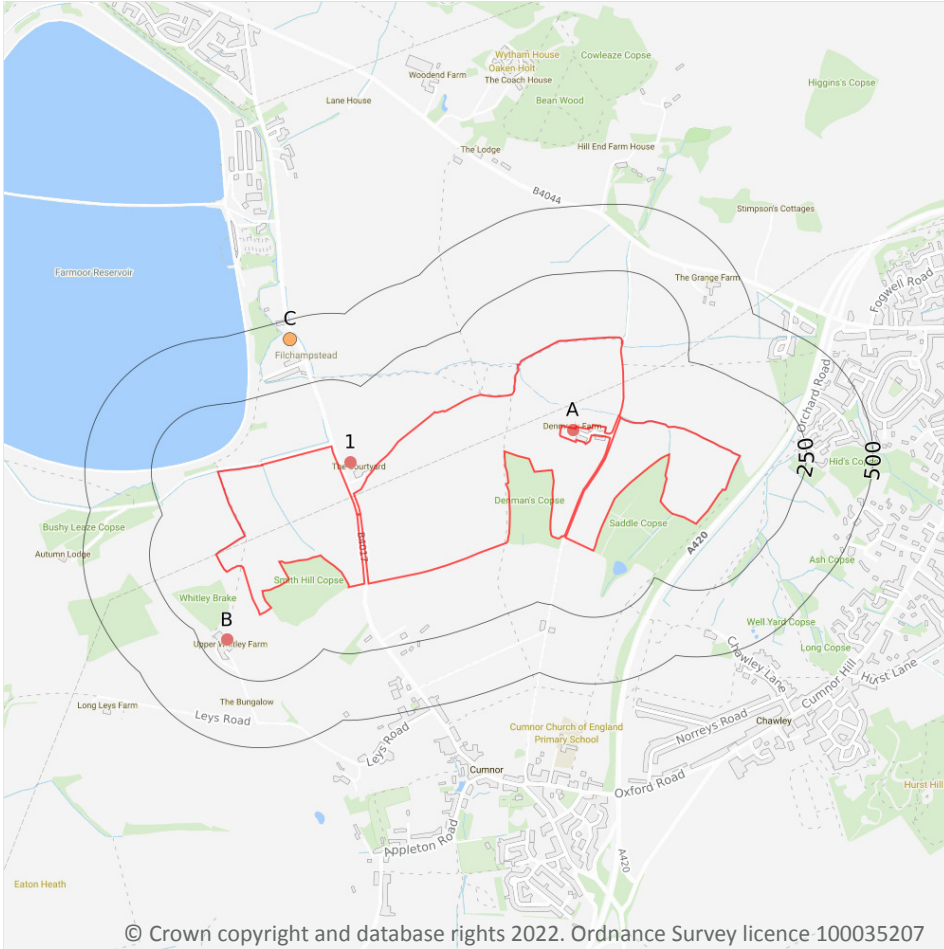
0

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

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

0

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

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

3.5 Historical waste sites

Records within 500m

2

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

Features are displayed on the Waste and landfill map on **page 19**

ID	Location	Address	Further Details	Date
C	404m N	Site Address: land adjacent to Greengate Bun, Cumnor Road, Filchampstead, Oxford, Oxfordshire, OX2 9NT	Type of Site: Waste Storage Facility Planning application reference: P20/V0063/DA Description: Scheme comprises without planning permission, the construction of a single storey building as a waste storage facility, the installation of a septic tank, the installation of external lighting, and the construction of 2 meters high gates and fencing to the front of the land facing cumnor road (ve17/648(b)). Data source: Historic Planning Application Data Type: Point	23/12/2019

ID	Location	Address	Further Details	Date
C	404m N	Site Address: Land Adjacent To Greengate Bun, Cumnor Road, Filchampstead, Oxford, Oxfordshire, OX2 9NT	Type of Site: Waste Storage Facility Planning application reference: P20/V0064/DA Description: Scheme comprises without planning permission, the construction of a single storey building as a waste storage facility, the installation of a septic tank, the installation of external lighting, and the construction of 2 meters high gates and fencing to the front of the land facing cumnor road (ve17/648(b)). Data source: Historic Planning Application Data Type: Point	23/12/2019

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	9
----------------------------	----------

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 19**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	8m S	DENMANS FARM, EYNHAM ROAD, FARMOOR, OXFORD, OX2 9NJ	WEX285313	Using waste exemption	On a Farm	Use of waste in construction
A	8m S	Denmans Farm Eynsham Road OXFORD OX2 9NJ	EPR/GE5785M F/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
A	8m S	Denmans Farm Eynsham Road OXFORD OX2 9NJ	EPR/GE5785M F/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice

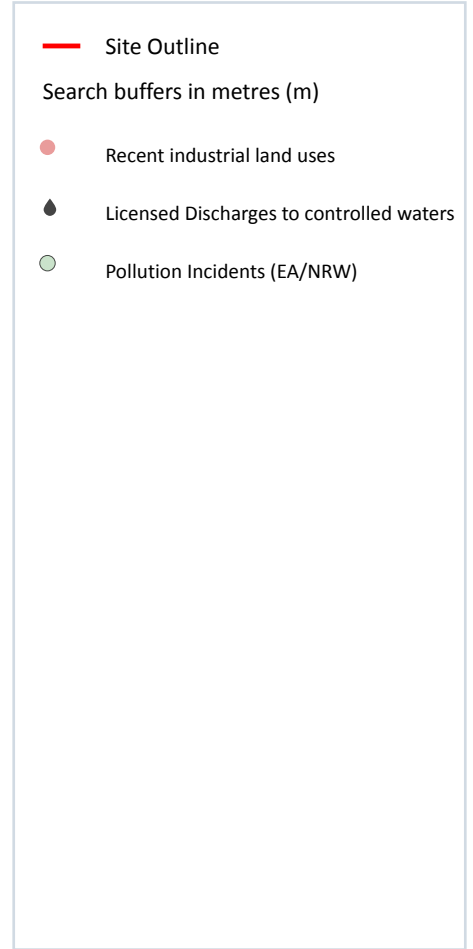
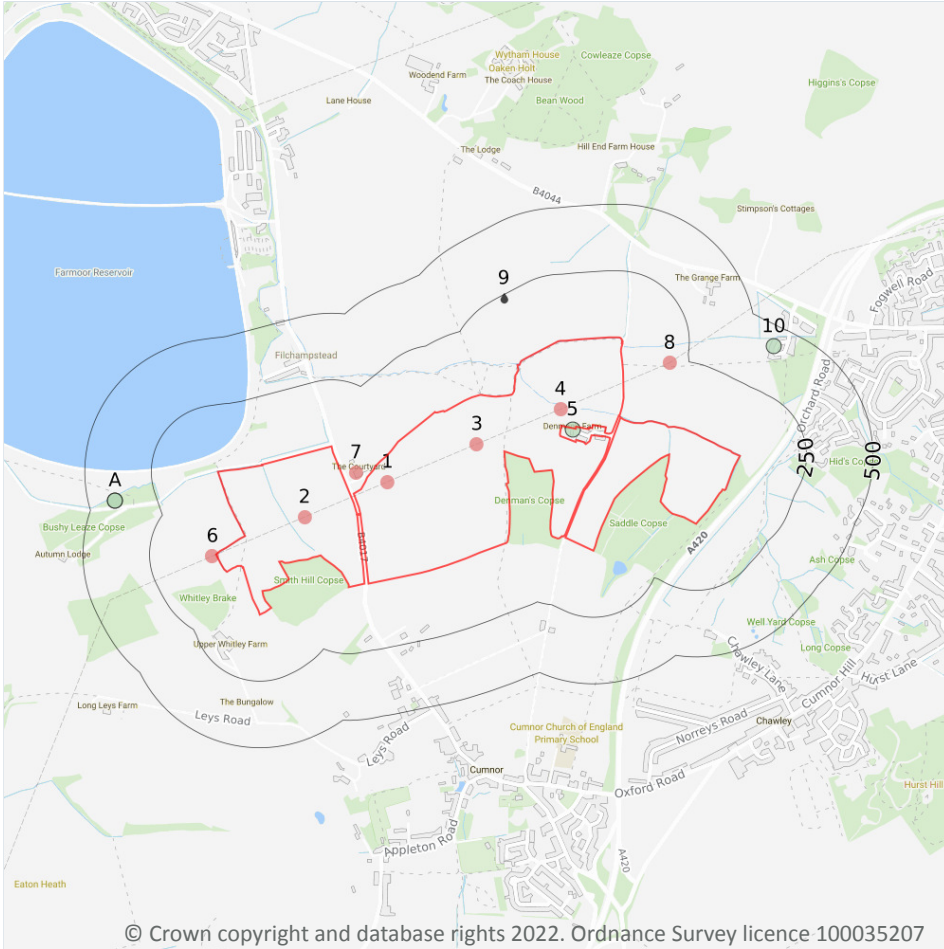


ID	Location	Site	Reference	Category	Sub-Category	Description
A	8m S	Denmans Farm Eynsham Road OXFORD OX2 9NJ	EPR/GE5785M F/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
A	8m S	Denmans Farm Eynsham Road OXFORD OX2 9NJ	EPR/GE5785M F/A001	Using waste exemption	Agricultural Waste Only	Burning of waste as a fuel in a small appliance
A	8m S	Denmans Farm Eynsham Road OXFORD OX2 9NJ	EPR/GE5785M F/A001	Using waste exemption	Agricultural Waste Only	Use of waste for a specified purpose
1	45m E	JUMPERS FARM, FARMOOR, OXFORD, OX2 9TX	WEX101278	Using waste exemption	On a farm	Use of waste in construction
B	158m SW	Upper Whitley Farm Leys Road OXFORD OX2 9QQ	EPR/VH0670T Y/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
B	158m SW	Upper Whitley Farm Leys Road OXFORD OX2 9QQ	EPR/VH0670T Y/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open

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

7

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 23**

ID	Location	Company	Address	Activity	Category
1	On site	Pylon	Oxfordshire, OX2	Electrical Features	Infrastructure and Facilities
2	On site	Pylon	Oxfordshire, OX2	Electrical Features	Infrastructure and Facilities
3	On site	Pylon	Oxfordshire, OX2	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
4	On site	Pylon	Oxfordshire, OX2	Electrical Features	Infrastructure and Facilities
6	15m SW	Pylon	Oxfordshire, OX2	Electrical Features	Infrastructure and Facilities
7	46m NW	Eaton Environmental Services	The Courtyard Willow Park, Cumnor Road, Farmoor, Oxford, Oxfordshire, OX2 9TX	Air and Water Filtration	Industrial Products
8	177m E	Pylon	Oxfordshire, OX2	Electrical Features	Infrastructure and Facilities

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

1

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

Features are displayed on the Current industrial land use map on **page 23**

ID	Location	Address	Details	
9	238m NW	RED HOUSE FARM, EYNSHAM ROAD, BOTLE, RED HOUSE FARM EYNSHAM ROAD BO, TLEY OXFORD OXFORDSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CNTW.1098 Permit Version: 1 Receiving Water: OXFORD CLAY	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 10/06/1991 Effective Date: 10/06/1991 Revocation Date: 01/10/1996

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

4

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 23**

ID	Location	Details	
5	5m S	Incident Date: 14/01/2002 Incident Identification: 52415 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
A	401m W	Incident Date: 16/09/2002 Incident Identification: 108116 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other Animal Matter	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)



ID	Location	Details	
A	401m W	Incident Date: 16/09/2002 Incident Identification: 108116 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other Animal Matter	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
10	424m NE	Incident Date: 30/09/2003 Incident Identification: 193356 Pollutant: Contaminated Water Pollutant Description: Other Contaminated Water	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	0
----------------------------	----------

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0
----------------------------	----------

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

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

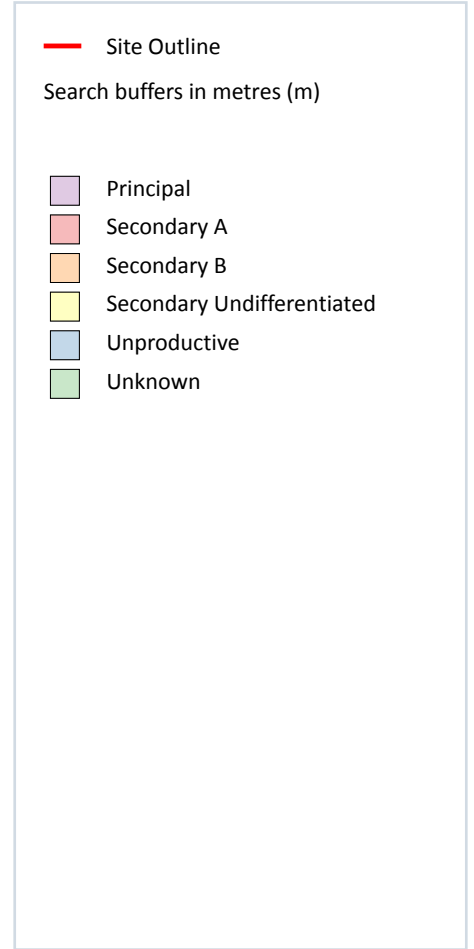
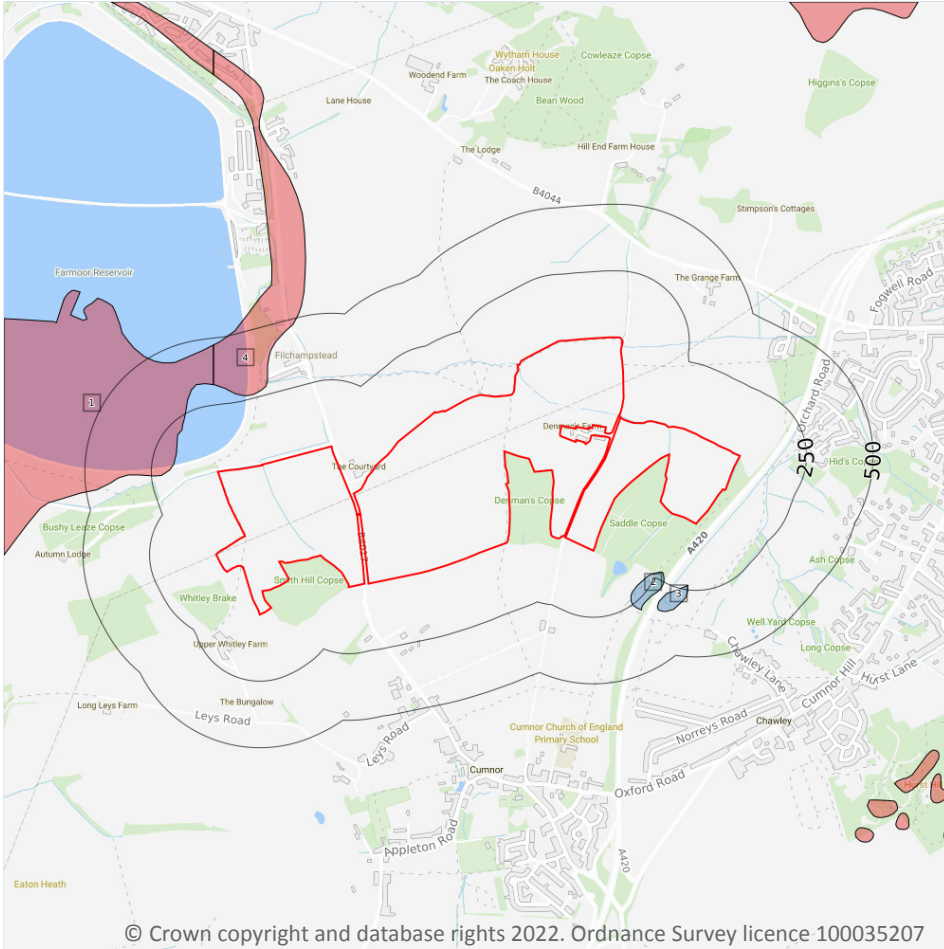
4.21 Pollution inventory radioactive waste

Records within 500m	0
----------------------------	----------

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

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

5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

4

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 29**

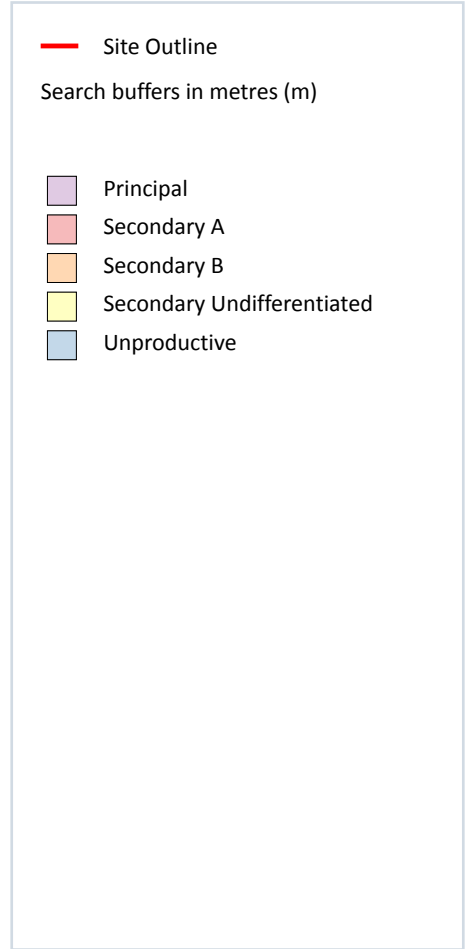
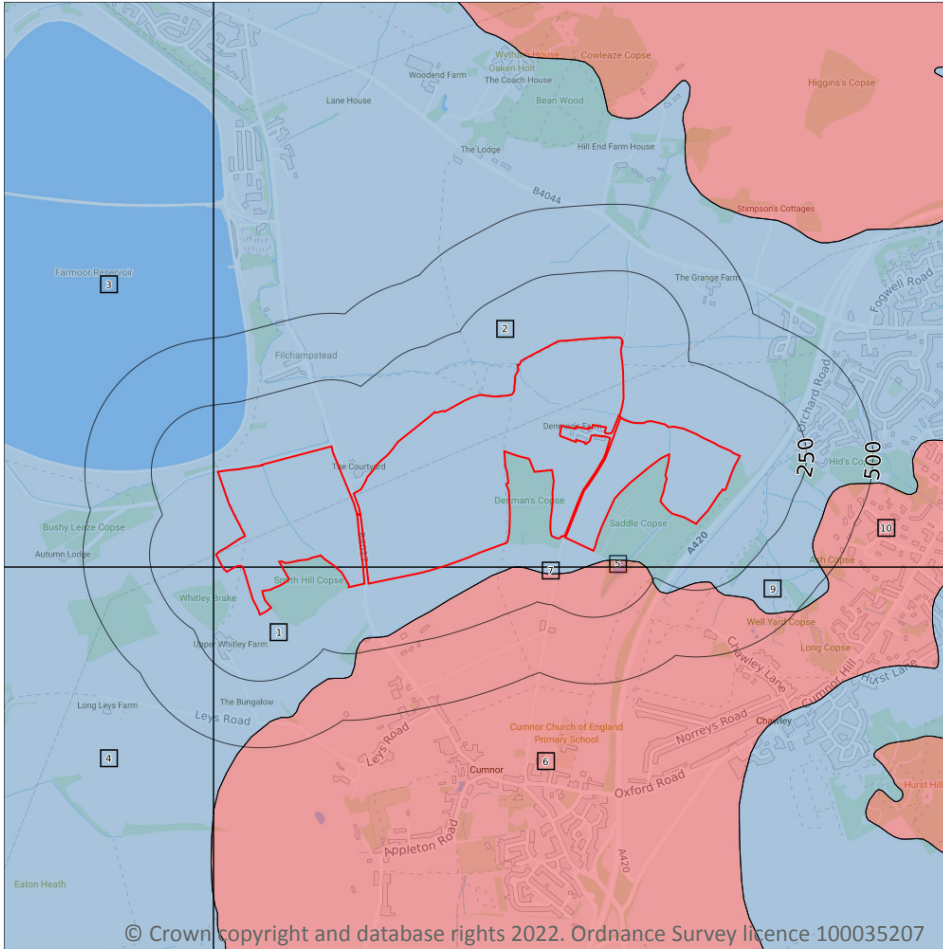
ID	Location	Designation	Description
1	168m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	210m SE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

ID	Location	Designation	Description
3	234m S	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
4	263m N	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



5.2 Bedrock aquifer

Records within 500m

10

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 31**

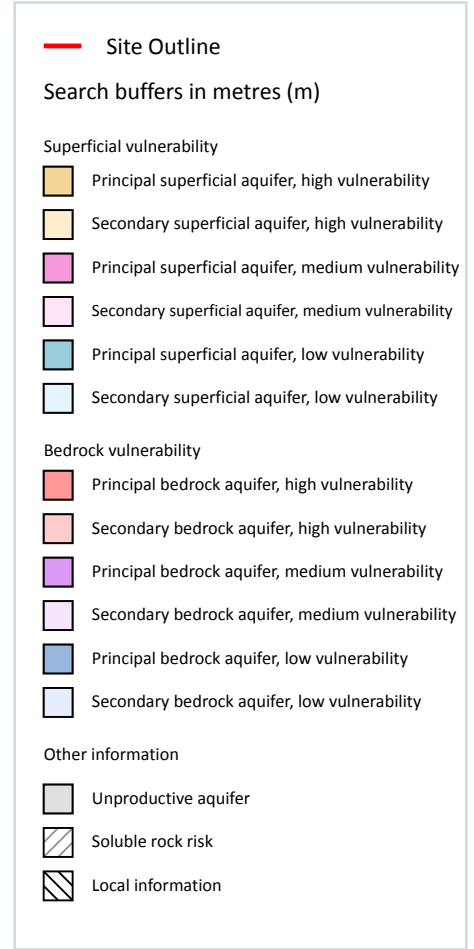
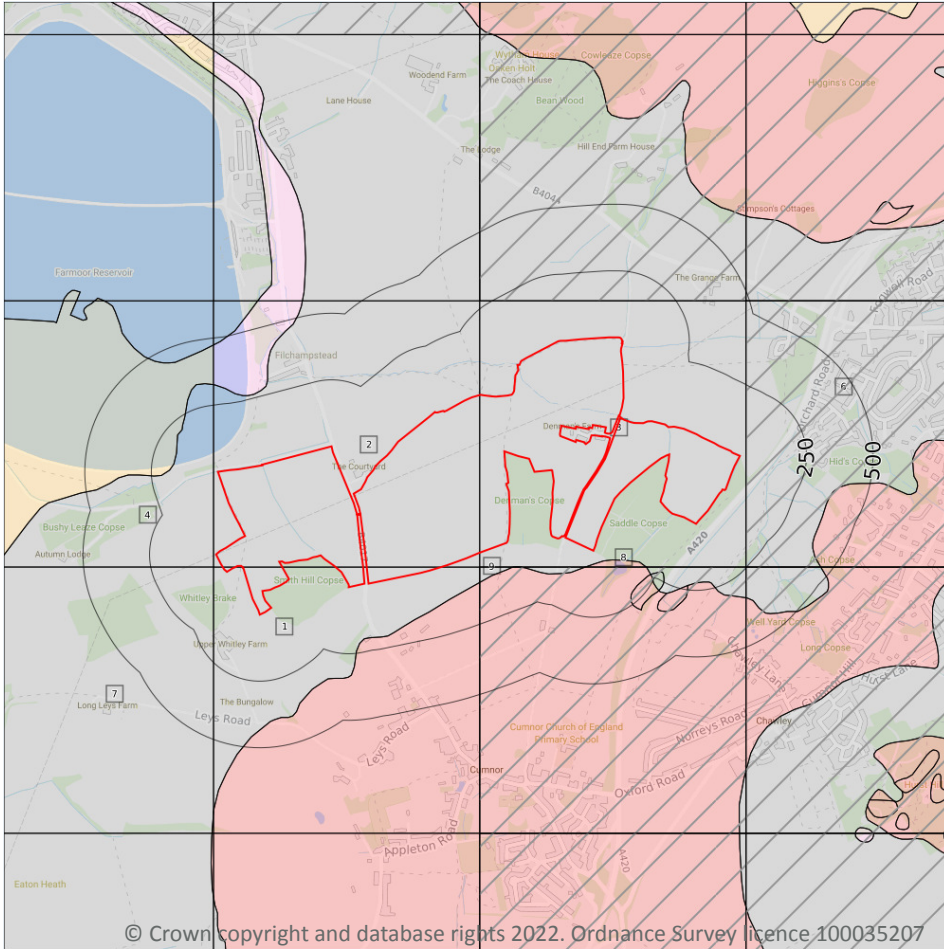
ID	Location	Designation	Description
1	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
2	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
3	10m W	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

ID	Location	Designation	Description
4	30m SW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
5	48m 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
6	61m 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	69m SW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
8	96m 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
9	163m S	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
10	370m 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.



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

8

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 33**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% 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
2	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% 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
3	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% 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
4	9m W	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
6	22m E	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% 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



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
7	30m SW	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% 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
8	48m S	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% 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
9	49m SE	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

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

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

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

5.5 Groundwater vulnerability- local information

Records on site

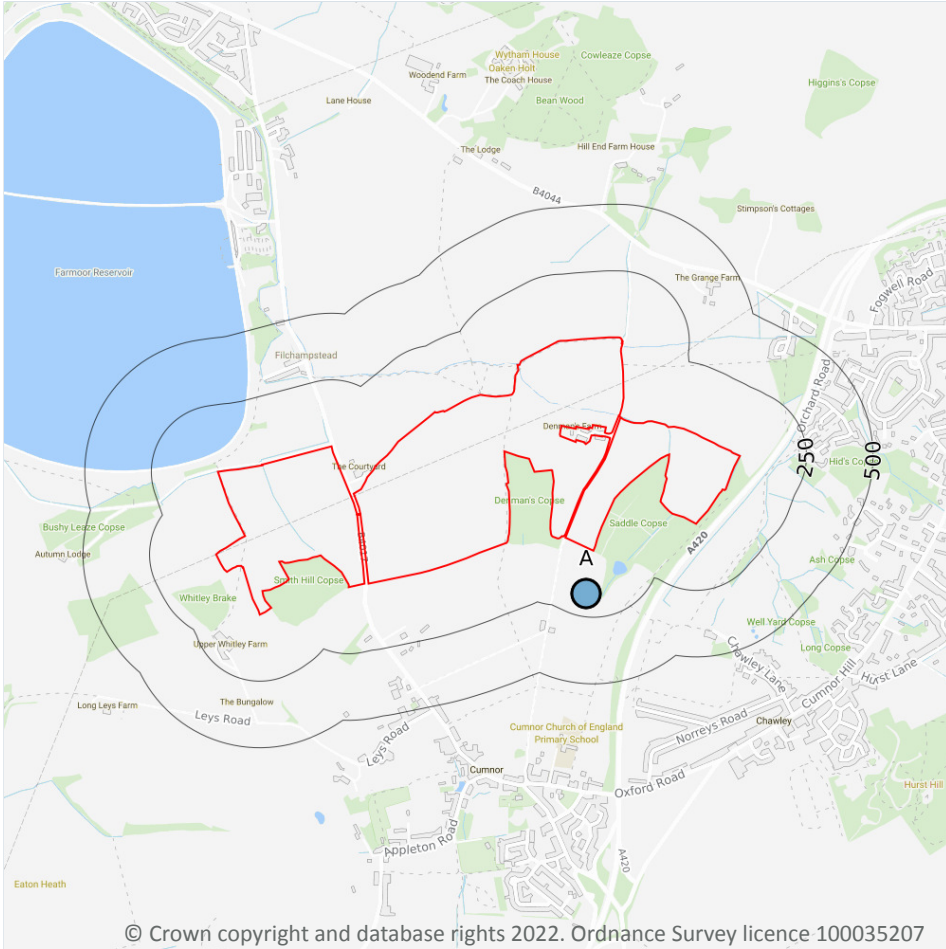
0

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

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



Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

0

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.

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

5.7 Surface water abstractions

Records within 2000m

6

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

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

ID	Location	Details	
A	163m S	Status: Historical Licence No: 28/39/16/0066 Details: Make-Up or Top Up Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: DENMAN'S FARM, FARMOOR Data Type: Point Name: J P GEE & SONS LTD Easting: 446400 Northing: 204900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/12/1978 Expiry Date: - Issue No: 100 Version Start Date: 06/12/1978 Version End Date: -
A	163m S	Status: Active Licence No: 28/39/16/0066 Details: Make-Up Or Top Up Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: DENMAN'S FARM, FARMOOR - TRIB OF R.THAMES Data Type: Point Name: J P GEE & SONS LTD Easting: 446400 Northing: 204900	Annual Volume (m ³): 6,819 Max Daily Volume (m ³): 54.55 Original Application No: WRA./1306 Original Start Date: 05/12/1978 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
-	1527m NW	Status: Historical Licence No: 28/39/16/0059 Details: Potable Water Supply - Storage Direct Source: THAMES SURFACE WATER - NON TIDAL Point: FARMOOR INTAKE 'C' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 443900 Northing: 206400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 09/07/1973 Version End Date: -
-	1527m NW	Status: Historical Licence No: 28/39/16/0054 Details: Potable Water Supply - Storage Direct Source: THAMES SURFACE WATER - NON TIDAL Point: FARMOOR INTAKE 'C' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 443900 Northing: 206400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/07/1967 Expiry Date: - Issue No: 100 Version Start Date: 10/07/1967 Version End Date: -



ID	Location	Details	
-	1527m NW	Status: Historical Licence No: 28/39/16/0060 Details: Potable Water Supply - Storage Direct Source: THAMES SURFACE WATER - NON TIDAL Point: FARMOOR INTAKE 'C' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 443900 Northing: 206400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1976 Expiry Date: - Issue No: 100 Version Start Date: 26/06/1992 Version End Date: -
-	1527m NW	Status: Active Licence No: 28/39/16/0078 Details: Potable Water Supply - Storage Direct Source: THAMES SURFACE WATER - NON TIDAL Point: FARMOOR INTAKE - RIVER THAMES Data Type: Point Name: Thames Water Utilities Ltd Easting: 443900 Northing: 206400	Annual Volume (m ³): 55,312,169 Max Daily Volume (m ³): 300,042 Original Application No: WRL/39/16/60 Original Start Date: 18/09/2002 Expiry Date: - Issue No: 1 Version Start Date: 18/09/2002 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

4

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

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

ID	Location	Details	
-	1527m NW	Status: Historical Licence No: 28/39/16/0059 Details: Potable Water Supply - Storage Direct Source: THAMES SURFACE WATER - NON TIDAL Point: FARMOOR INTAKE 'C' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 443900 Northing: 206400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 09/07/1973 Version End Date: -



ID	Location	Details	
-	1527m NW	Status: Historical Licence No: 28/39/16/0054 Details: Potable Water Supply - Storage Direct Source: THAMES SURFACE WATER - NON TIDAL Point: FARMOOR INTAKE 'C' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 443900 Northing: 206400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/07/1967 Expiry Date: - Issue No: 100 Version Start Date: 10/07/1967 Version End Date: -
-	1527m NW	Status: Historical Licence No: 28/39/16/0060 Details: Potable Water Supply - Storage Direct Source: THAMES SURFACE WATER - NON TIDAL Point: FARMOOR INTAKE 'C' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 443900 Northing: 206400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1976 Expiry Date: - Issue No: 100 Version Start Date: 26/06/1992 Version End Date: -
-	1527m NW	Status: Active Licence No: 28/39/16/0078 Details: Potable Water Supply - Storage Direct Source: THAMES SURFACE WATER - NON TIDAL Point: FARMOOR INTAKE - RIVER THAMES Data Type: Point Name: Thames Water Utilities Ltd Easting: 443900 Northing: 206400	Annual Volume (m ³): 55,312,169 Max Daily Volume (m ³): 300,042 Original Application No: WRL/39/16/60 Original Start Date: 18/09/2002 Expiry Date: - Issue No: 1 Version Start Date: 18/09/2002 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

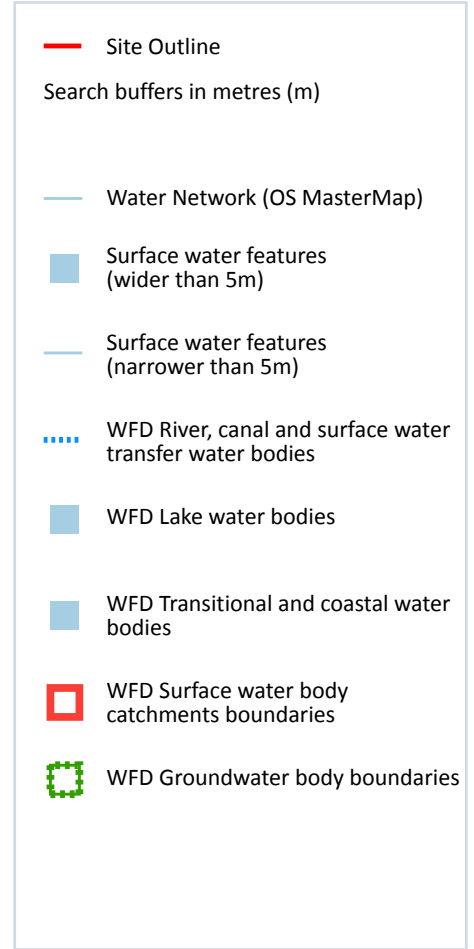
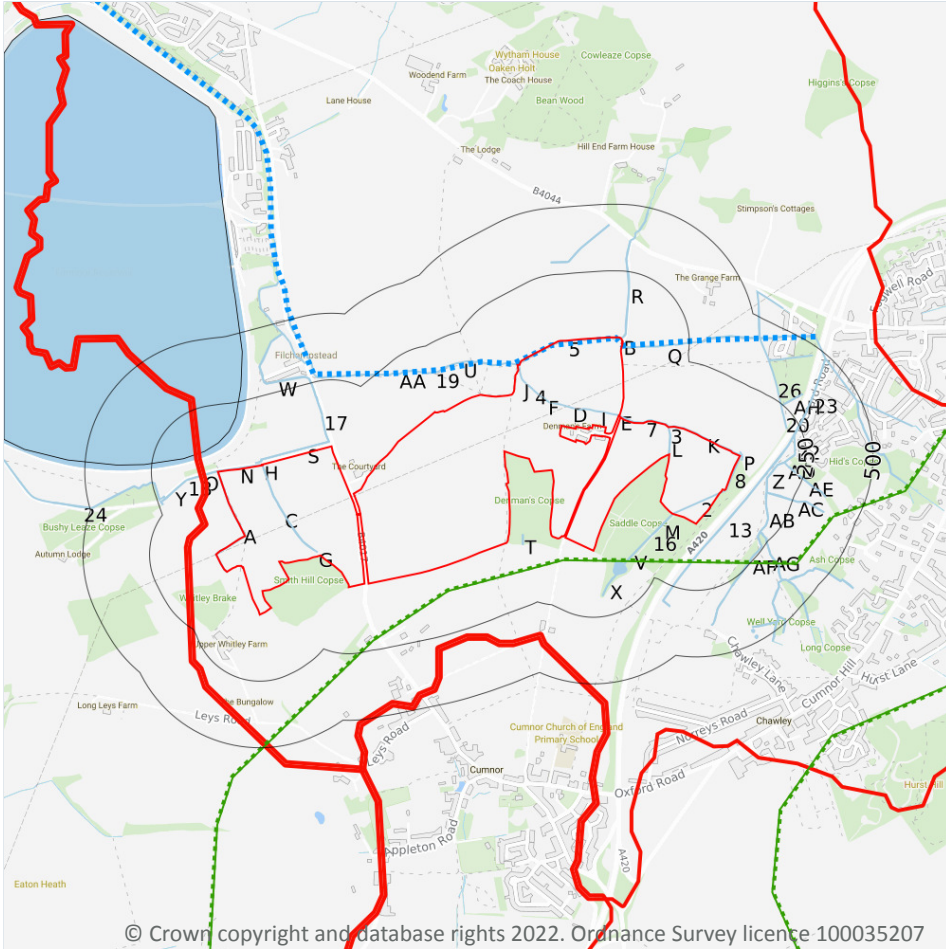
0

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



6.1 Water Network (OS MasterMap)

Records within 250m **79**

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 40**

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

ID	Location	Type of water feature	Ground level	Permanence	Name
3	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
4	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
5	On site	Inland river not influenced by normal tidal action.	On ground surface	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.	On ground surface	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)	-
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	On site	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	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
I	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	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)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	1m N	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
8	1m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	1m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	1m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	1m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	2m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	2m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
P	2m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	3m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
B	5m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
Q	8m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	8m NE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	9m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	10m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
H	12m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	12m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
S	12m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	45m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	49m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	51m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
13	80m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	96m W	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
U	101m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
16	110m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
V	117m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
17	117m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
18	120m W	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
W	124m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	124m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	126m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	129m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
19	146m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AA	147m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	148m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AC	148m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AD	168m E	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
AD	168m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	185m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
20	203m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AF	205m SE	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
AG	205m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
22	207m E	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
Y	218m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
23	218m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	228m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
Y	233m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	235m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	239m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
24	239m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	239m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
Y	241m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	244m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
26	245m NE	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

28

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 40**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

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

Features are displayed on the Hydrology map on **page 40**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
J	On site	River	Filchhampstead Brook at Farmoor	GB106039030210	Windrush	Cotswolds

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

6.4 WFD Surface water bodies

Records identified

2

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 40**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
6	On site	River	Filchhampstead Brook at Farmoor	GB106039030210	Bad	Fail	Bad	2019



ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
15	91m NW	Lake	Farmoor Reservoir	GB30641011	Moderate	Fail	Good	2019

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

6.5 WFD Groundwater bodies

Records on site

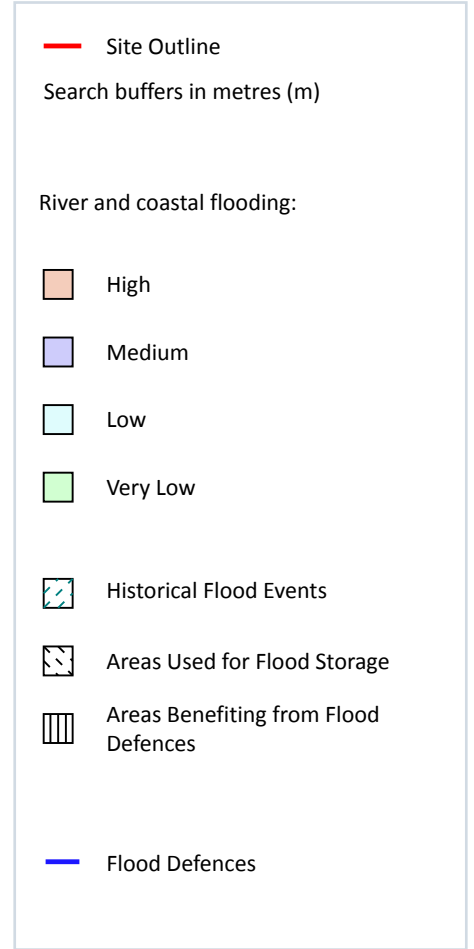
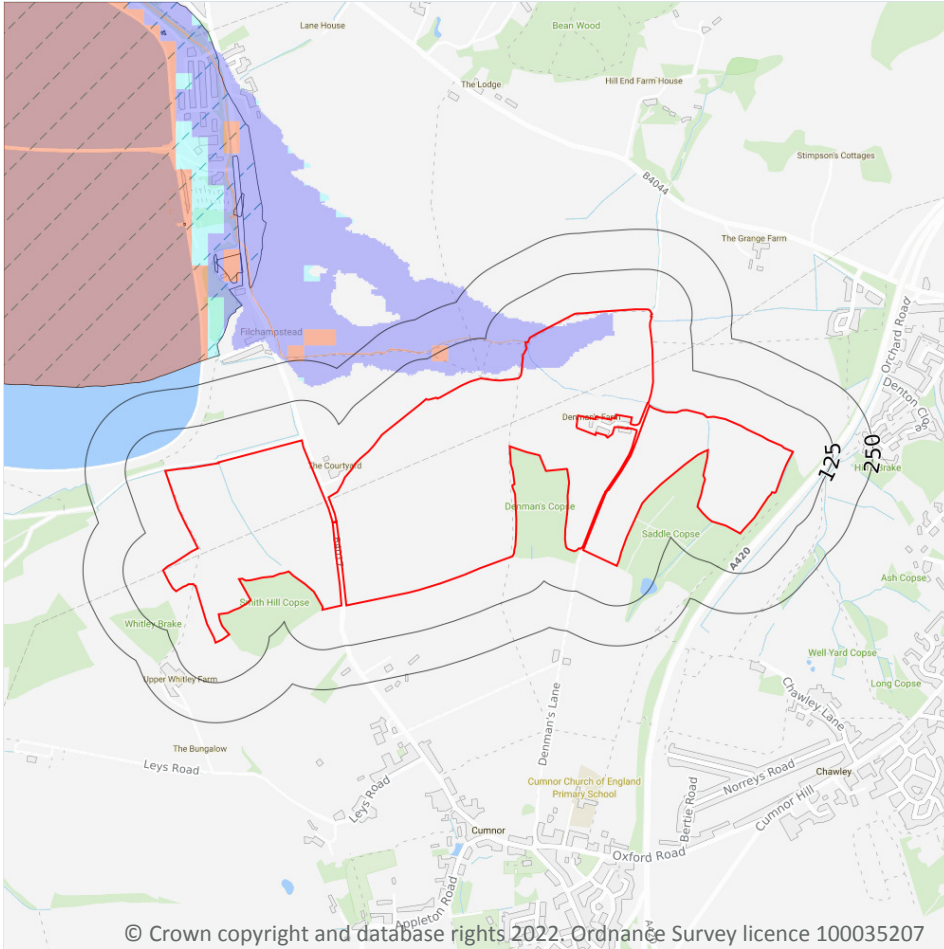
0

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.

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

5

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 49**

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

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

7.2 Historical Flood Events

Records within 250m **0**

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

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

7.3 Flood Defences

Records within 250m **0**

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m **0**

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

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

7.5 Flood Storage Areas

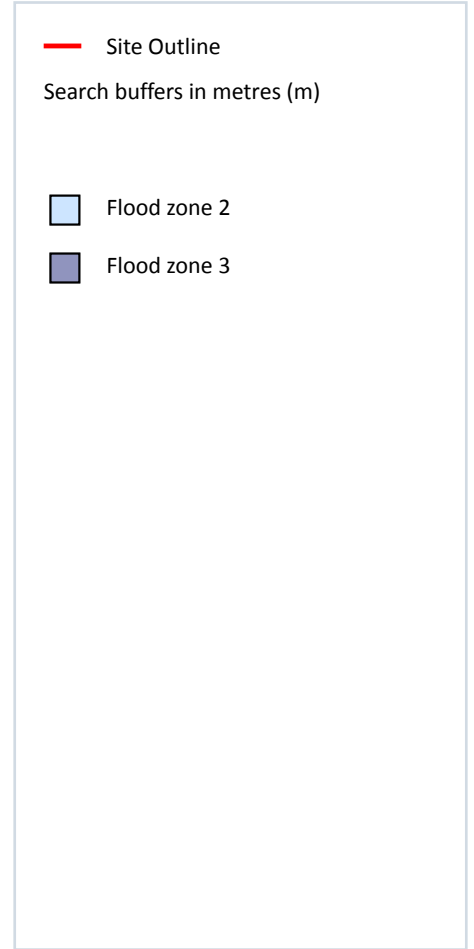
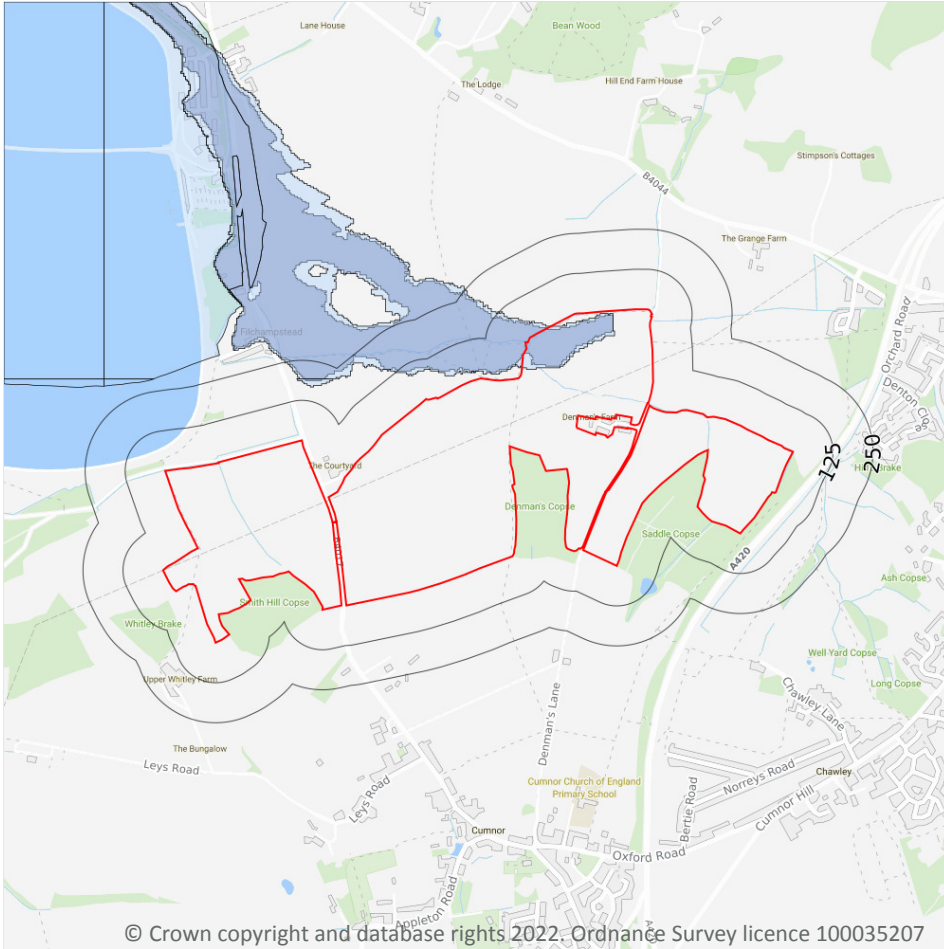
Records within 250m **0**

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

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



River and coastal flooding - Flood Zones



7.6 Flood Zone 2

Records within 50m

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 49**

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.

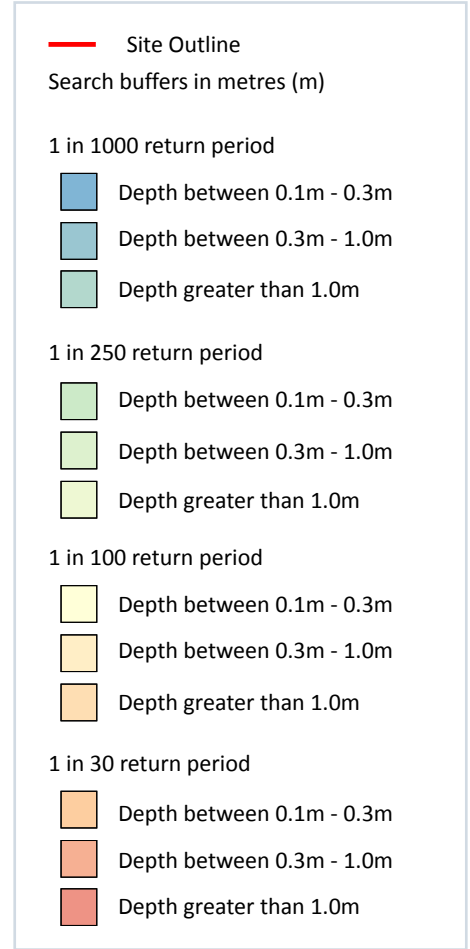
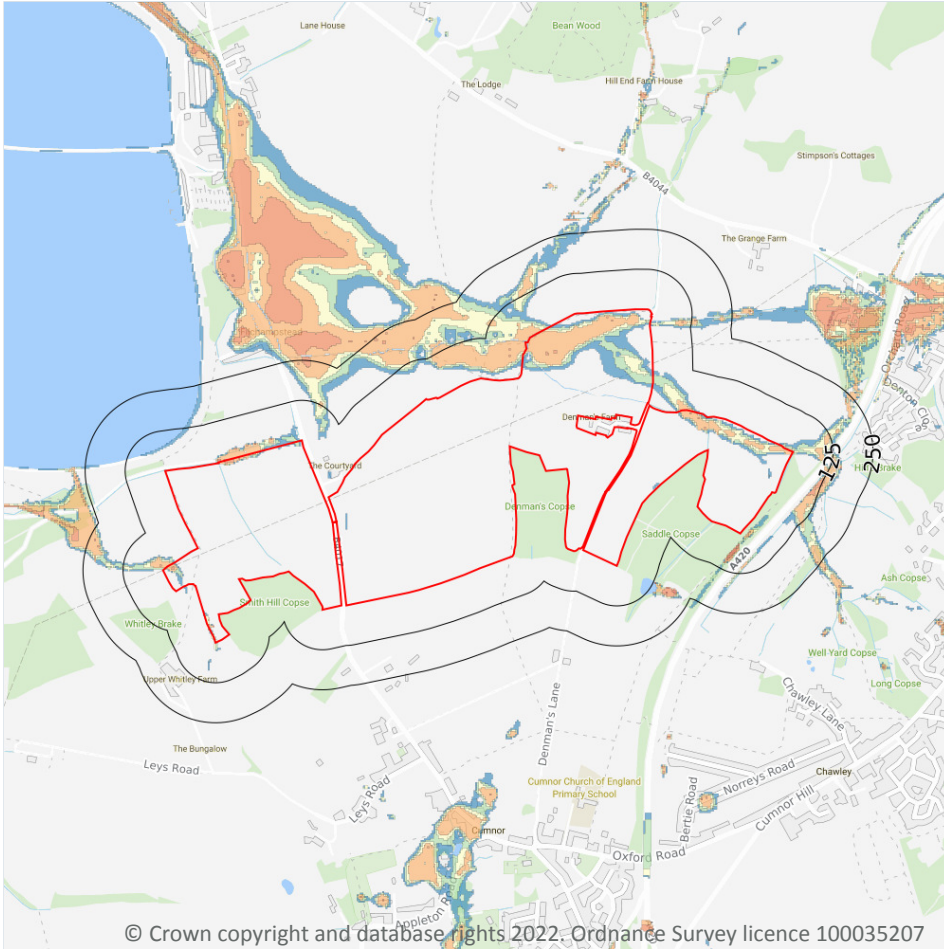
Features are displayed on the River and coastal flooding map on **page 49**

Location	Type
On site	Zone 3 - (Fluvial Models)

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.3m - 1.0m

Highest risk within 50m

1 in 30 year, 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 53**

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

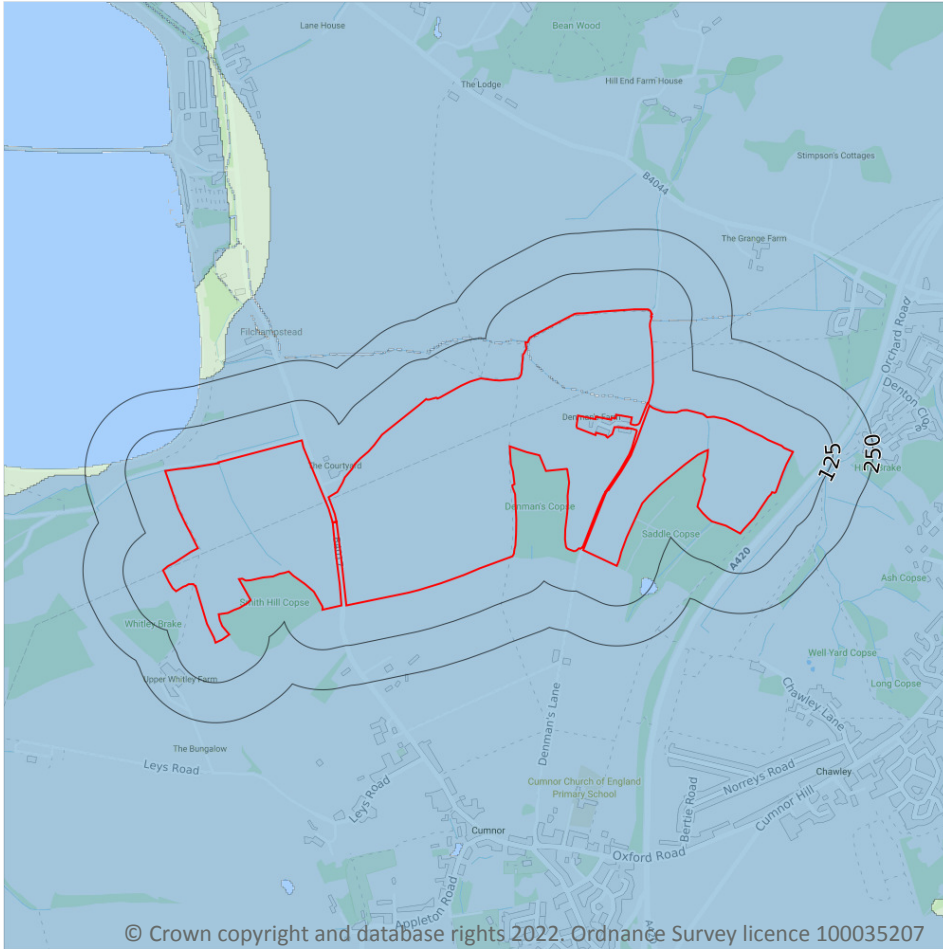
The table below shows the maximum flood depths for a range of return periods for the site.

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

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Negligible

Highest risk within 50m

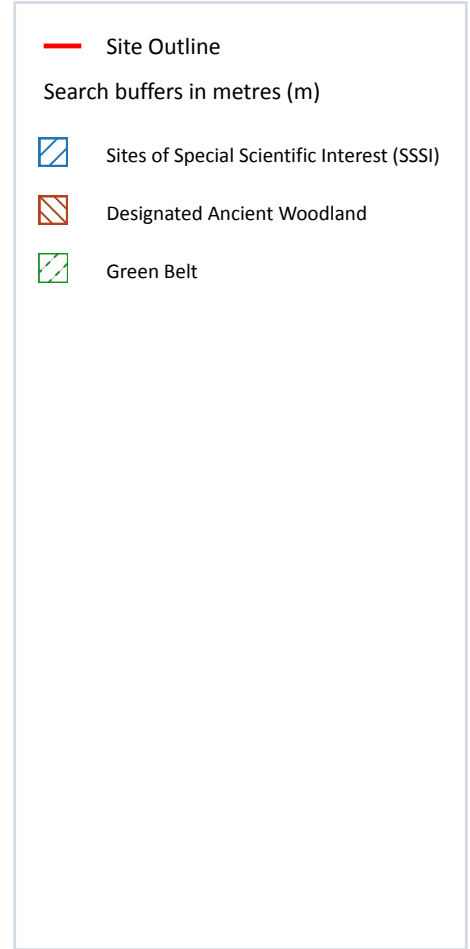
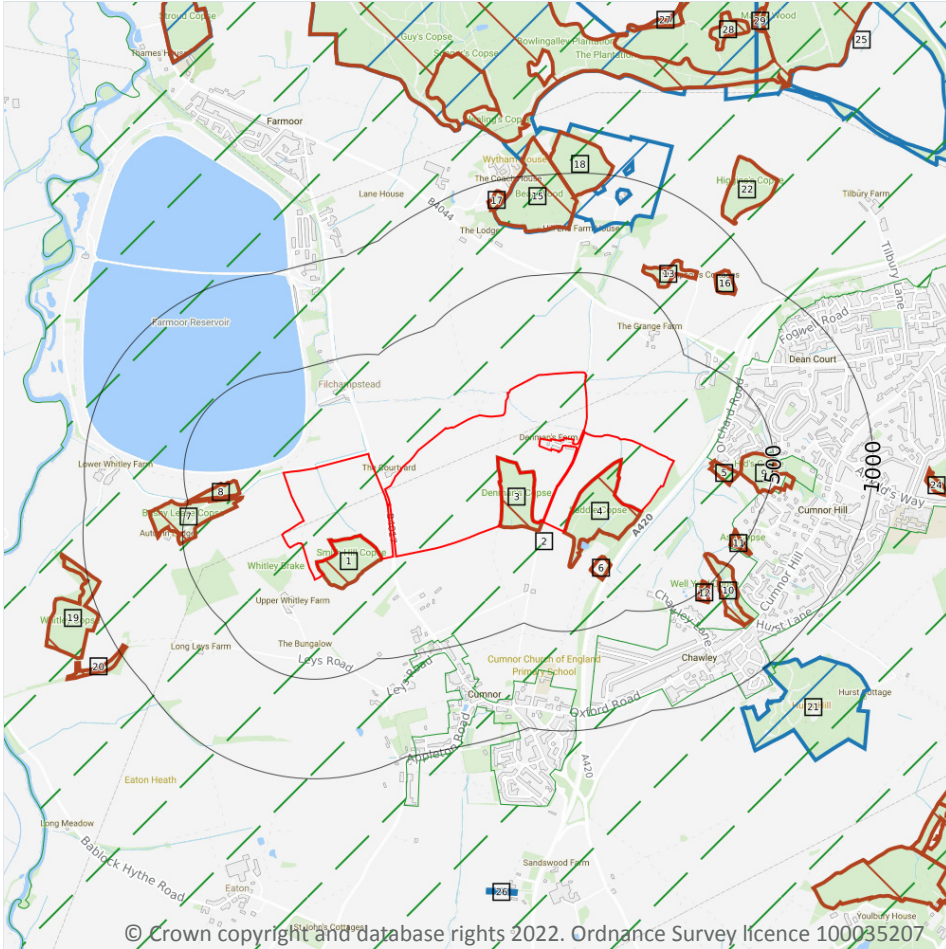
Negligible

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

Features are displayed on the Groundwater flooding map on **page 55**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



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 56**

ID	Location	Name	Data source
14	711m N	Wytham Woods	Natural England

ID	Location	Name	Data source
21	999m SE	Hurst Hill	Natural England
25	1637m NE	Wytham Woods	Natural England
26	1731m S	Cumnor	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

26

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 56**

ID	Location	Name	Woodland Type
1	On site	Smith Hill Copse	Ancient & Semi-Natural Woodland
3	On site	Denman's Copse	Ancient & Semi-Natural Woodland
4	On site	Shadwell Copse	Ancient & Semi-Natural Woodland
5	186m E	Hid's Brake	Ancient & Semi-Natural Woodland
6	221m SE	Longmoor Copse	Ancient & Semi-Natural Woodland
7	237m W	Bushy Leaze Copse	Ancient & Semi-Natural Woodland
8	240m W	Bushy Leaze Copse	Ancient & Semi-Natural Woodland
9	337m E	Hid's Copse	Ancient & Semi-Natural Woodland
10	383m SE	Long Copse	Ancient & Semi-Natural Woodland
11	423m SE	Ash Copse	Ancient & Semi-Natural Woodland



ID	Location	Name	Woodland Type
12	466m SE	Well Yard Copse	Ancient & Semi-Natural Woodland
13	571m NE	Cammoor Copse	Ancient & Semi-Natural Woodland
15	723m N	Bean Wood	Ancient & Semi-Natural Woodland
16	782m NE	Stimpson's Copse	Ancient & Semi-Natural Woodland
17	857m N	Unknown	Ancient & Semi-Natural Woodland
18	880m N	Cowleaze Copse	Ancient & Semi-Natural Woodland
19	946m W	Whitley Copse	Ancient & Semi-Natural Woodland
20	959m SW	Unknown	Ancient & Semi-Natural Woodland
22	1051m NE	Higgin's Copse	Ancient & Semi-Natural Woodland
23	1183m N	Wytham Great Wood	Ancient & Semi-Natural Woodland
24	1269m E	Hutchcomb's Copse	Ancient & Semi-Natural Woodland
27	1733m N	Unknown	Ancient & Semi-Natural Woodland
28	1754m N	Unknown	Ancient & Semi-Natural Woodland
29	1927m NE	Marley Wood	Ancient & Semi-Natural Woodland
-	1954m N	Unknown	Ancient & Semi-Natural Woodland
-	2000m N	Unknown	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m

0

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

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



10.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

1

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

Features are displayed on the Environmental designations map on **page 56**

ID	Location	Name	Local Authority name
2	On site	Oxford	Vale of White Horse

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

8

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	Filchhampstead Brook at Farmoor NVZ	Surface Water	478	Existing

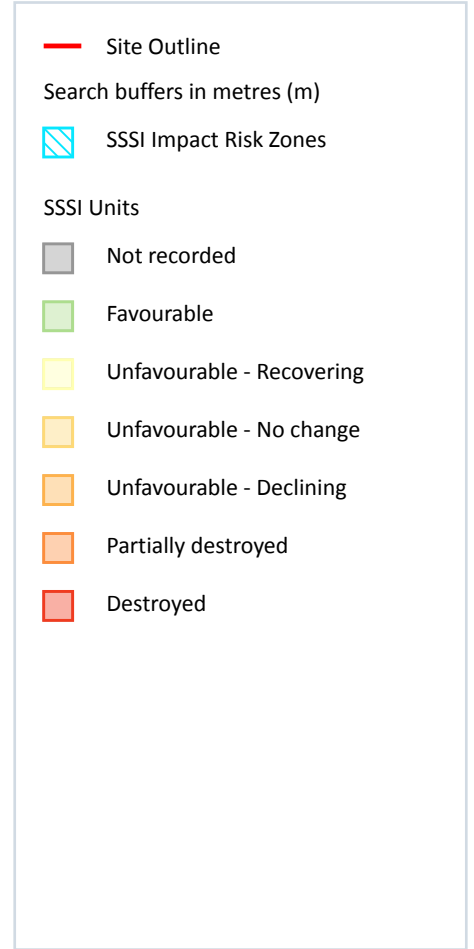
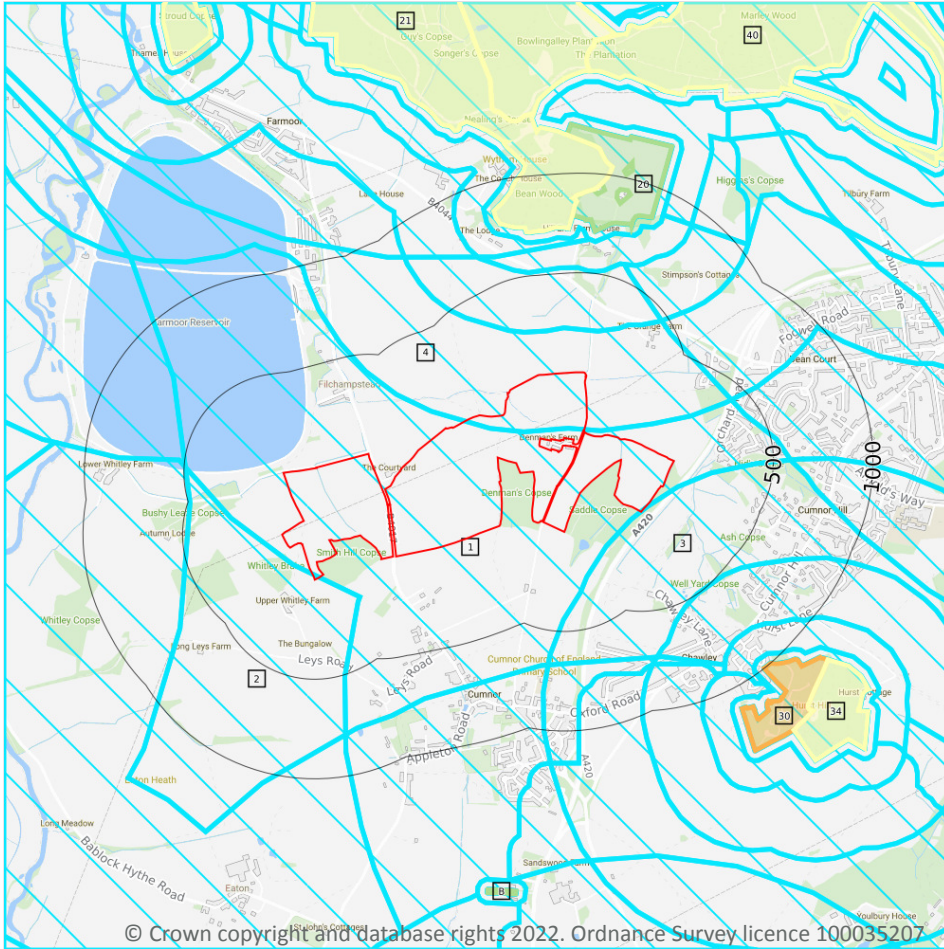


Location	Name	Type	NVZ ID	Status
119m N	Filchhampstead Brook at Farmoor NVZ	Surface Water	478	Existing
217m SE	THAMES (LEACH TO EVENLODE) NVZ	Surface Water	482	Existing
493m S	Ock and tributaries (Land Brook confluence to Thames) NVZ	Surface Water	681	Existing
724m NE	THAMES (LEACH TO EVENLODE) NVZ	Surface Water	482	Existing
918m SW	THAMES (LEACH TO EVENLODE) NVZ	Surface Water	482	Existing
1115m NW	THAMES (LEACH TO EVENLODE) NVZ	Surface Water	482	Existing
1946m NW	Chil and Limb Brooks (source to B4044) NVZ	Surface Water	480	Existing

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



SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site

4

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 63**

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>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).</p> <p>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.</p> <p>Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>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.</p> <p>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.</p>
2	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t).</p> <p>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.</p> <p>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.</p>
3	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>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).</p> <p>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.</p> <p>Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>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.</p> <p>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.</p>
4	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>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).</p> <p>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.</p> <p>Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>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.</p> <p>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.</p>

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

7

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 63**

ID: 20
 Location: 711m N
 SSSI name: Wytham Woods
 Unit name: Hill End Camp
 Broad habitat: Calcareous Grassland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Lowland calcareous grassland (CG3-5)	Favourable	29/05/2012
Populations of nationally scarce butterfly species - Strymonidia pruni, Black Hairstreak	Favourable	26/06/2012

ID: 21
 Location: 717m N
 SSSI name: Wytham Woods
 Unit name: Woodcroft / Rough Copse
 Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
 Condition: Unfavourable - Recovering
 Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Unfavourable - Recovering	21/05/2012

ID: 30
 Location: 999m SE
 SSSI name: Hurst Hill
 Unit name: Clay Quarry
 Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
 Condition: Unfavourable - Declining



Reportable features:

Feature name	Feature condition	Date of assessment
Bryophyte assemblage	Unfavourable - Declining	10/09/2012
ED - Jurassic - Cretaceous Reptilia	Unfavourable - Declining	10/09/2012

ID: 34
 Location: 1194m SE
 SSSI name: Hurst Hill
 Unit name: All Souls
 Broad habitat: Acid Grassland - Lowland
 Condition: Unfavourable - Recovering
 Reportable features:

Feature name	Feature condition	Date of assessment
Lowland dry acid grassland (U1e)	Unfavourable - Recovering	19/12/2019

ID: 35
 Location: 1281m N
 SSSI name: Wytham Woods
 Unit name: Radbrook Common
 Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
 Condition: Unfavourable - Recovering
 Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Unfavourable - Recovering	17/05/2012
Vascular plant assemblage	Unfavourable - Recovering	17/05/2012

ID: 40
 Location: 1471m N
 SSSI name: Wytham Woods
 Unit name: Marley Wood
 Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
 Condition: Unfavourable - Recovering
 Reportable features:

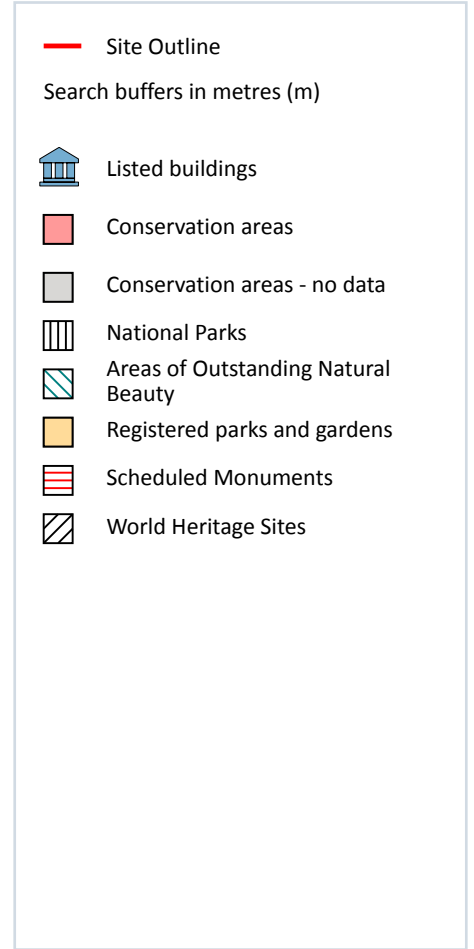
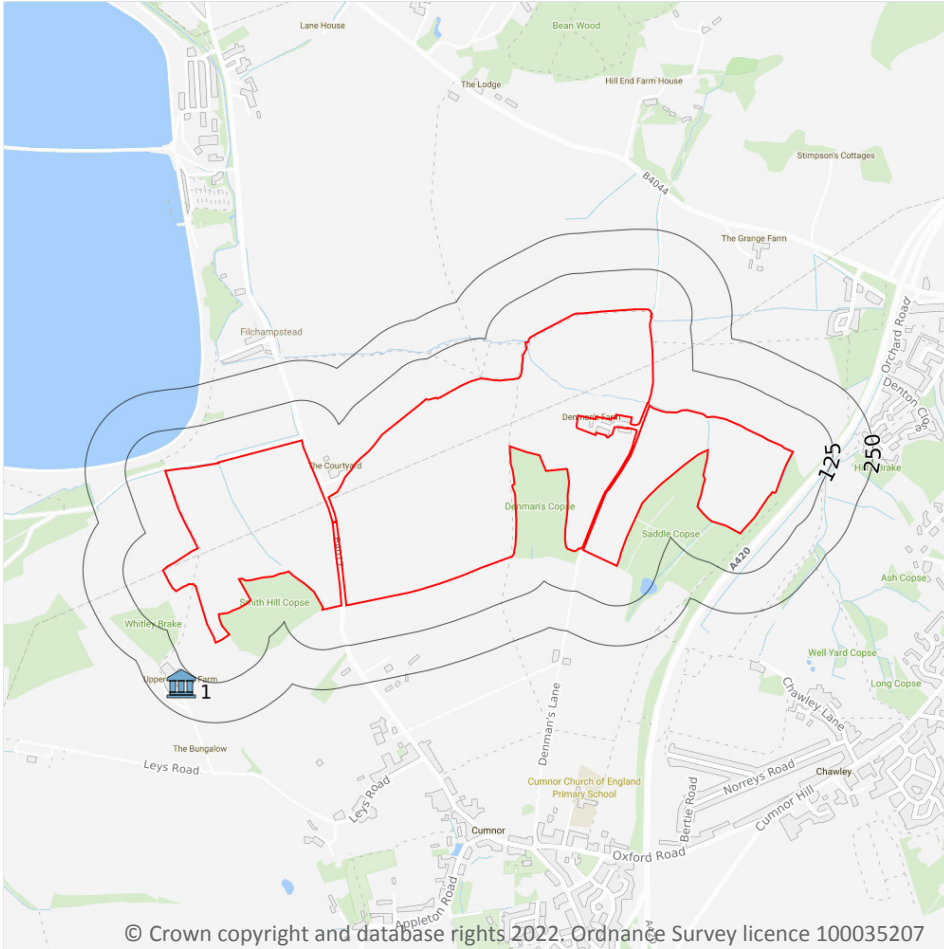
Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Unfavourable - Recovering	17/05/2012

ID: B
Location: 1731m S
SSSI name: Cumnor
Unit name: 1
Broad habitat: Earth Heritage
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
ED - Oxfordian	Favourable	15/03/2006

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

1

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

Features are displayed on the Visual and cultural designations map on **page 68**

ID	Location	Name	Grade	Reference Number	Listed date
1	168m SW	Upper Whitley Farmhouse, Cumnor, Vale of White Horse, Oxfordshire, OX2	II	1368588	24/06/1987

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



11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

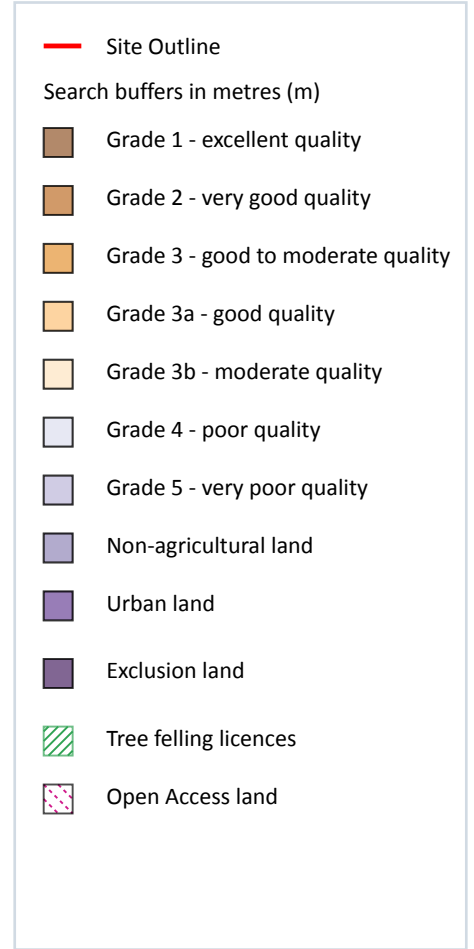
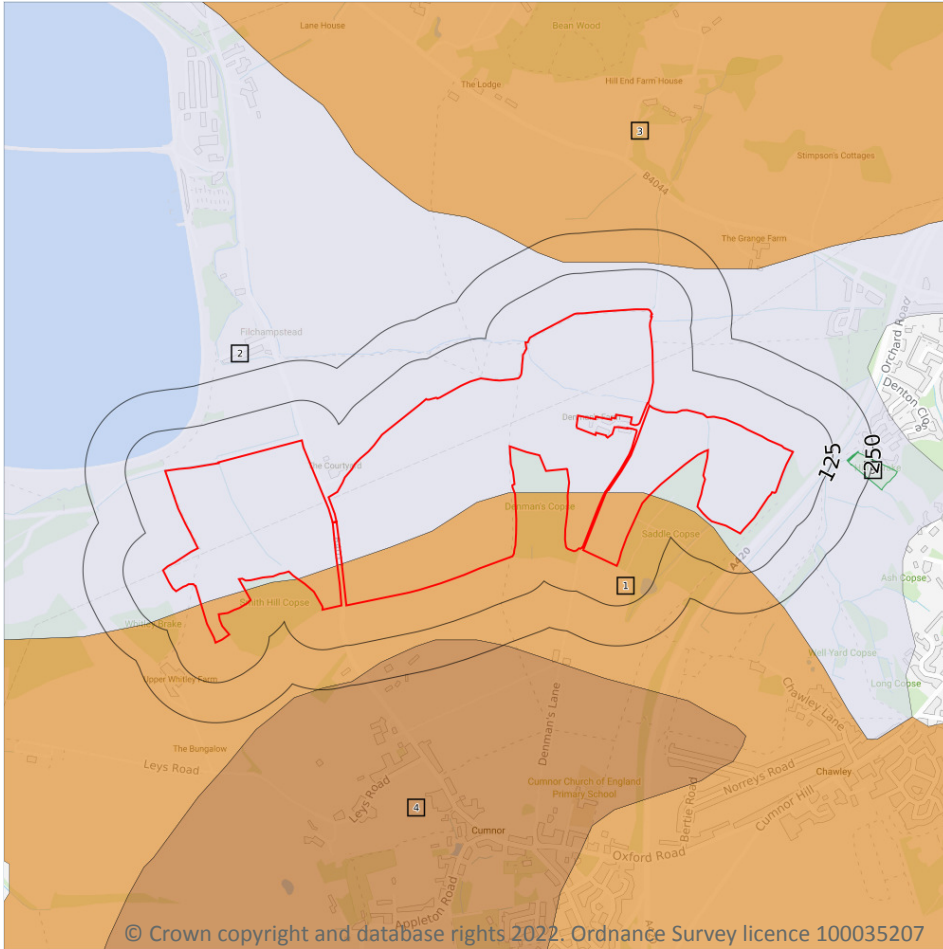
0

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

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



12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m

4

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 71**

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 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.
3	145m N	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.
4	164m S	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.

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 71**

ID	Location	Description	Reference	Application date
5	171m E	Selective Fell/Thin (Conditional)	019/117/16-17	22/02/2017

This data is sourced from the Forestry Commission.



12.4 Environmental Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

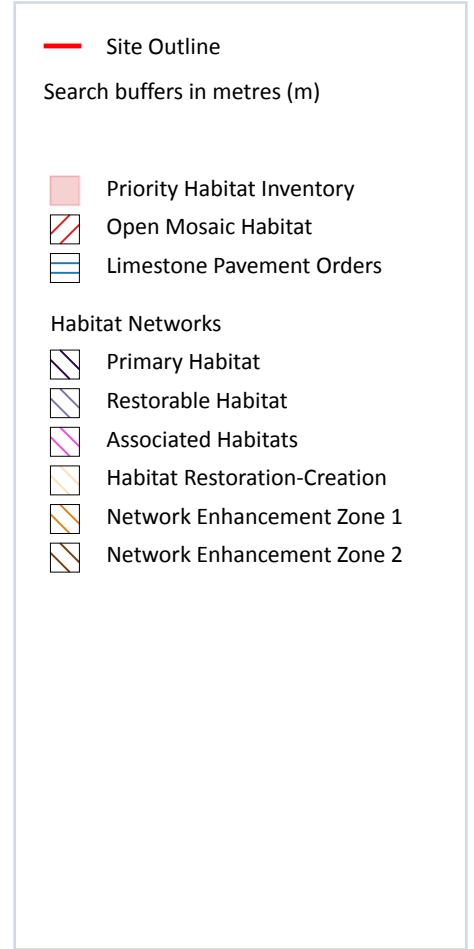
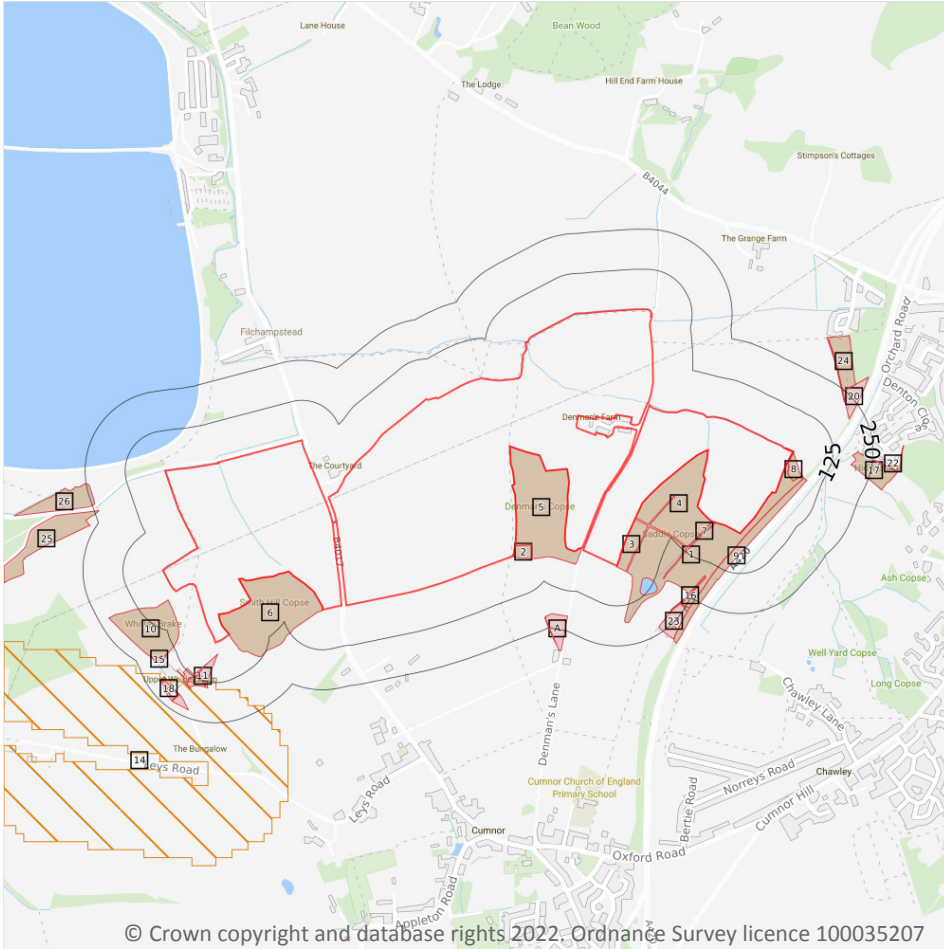
3

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
82m E	819758	Countryside Stewardship (Middle Tier)	01/01/2020	31/12/2024
130m E	819758	Countryside Stewardship (Middle Tier)	01/01/2020	31/12/2024
136m E	819758	Countryside Stewardship (Middle Tier)	01/01/2020	31/12/2024

This data is sourced from Natural England.

13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m

27

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 74**

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	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%)

ID	Location	Main Habitat	Other habitats
5	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	0m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	2m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	17m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	37m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
11	37m S	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
12	79m SW	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
13	87m SW	Traditional orchard	Main habitat: TORCH (INV > 50%)
15	154m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
16	169m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
17	186m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
18	187m SW	No main habitat but additional habitats present	Additional: TORCH (INV 50%)
19	197m SW	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
20	204m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	204m S	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
21	215m SE	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
22	216m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
23	221m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
24	223m NE	No main habitat but additional habitats present	Additional: DWOOD (INV 50%)
A	227m SE	Traditional orchard	Main habitat: TORCH (INV > 50%)
25	237m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
26	240m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.



13.2 Habitat Networks

Records within 250m

1

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 74**

ID	Location	Type	Habitat
14	121m S	Network Enhancement Zone 1	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

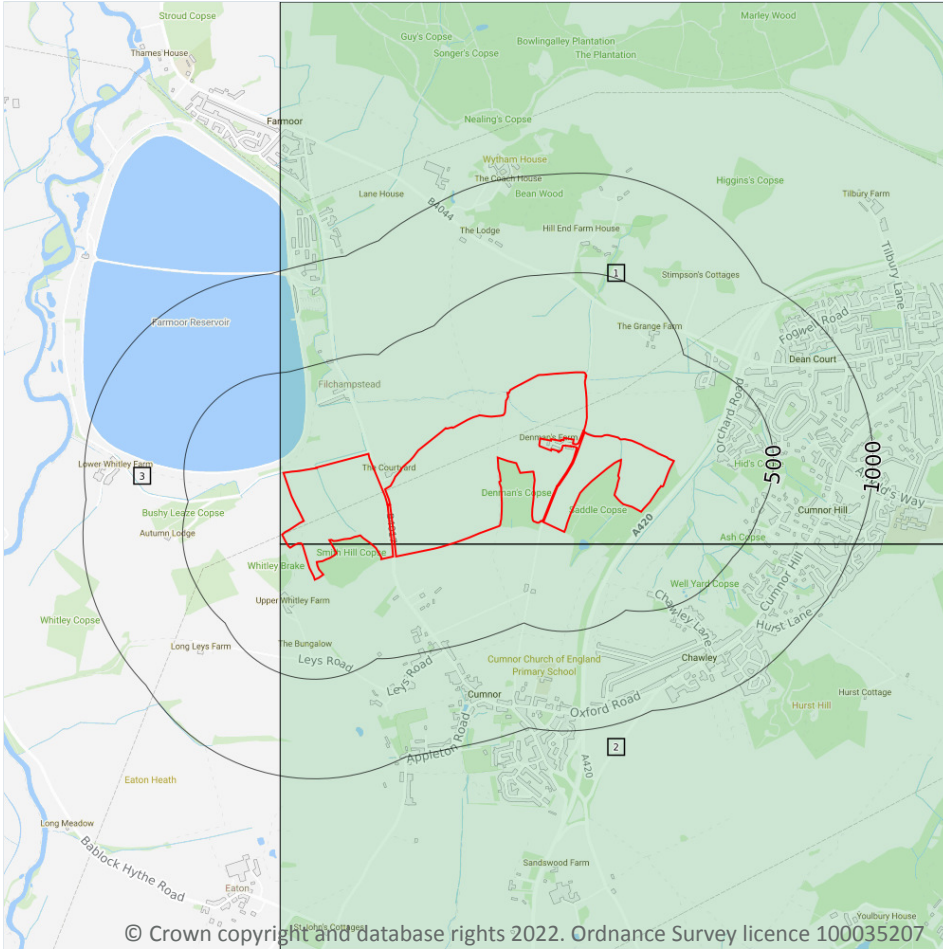
0

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

3

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

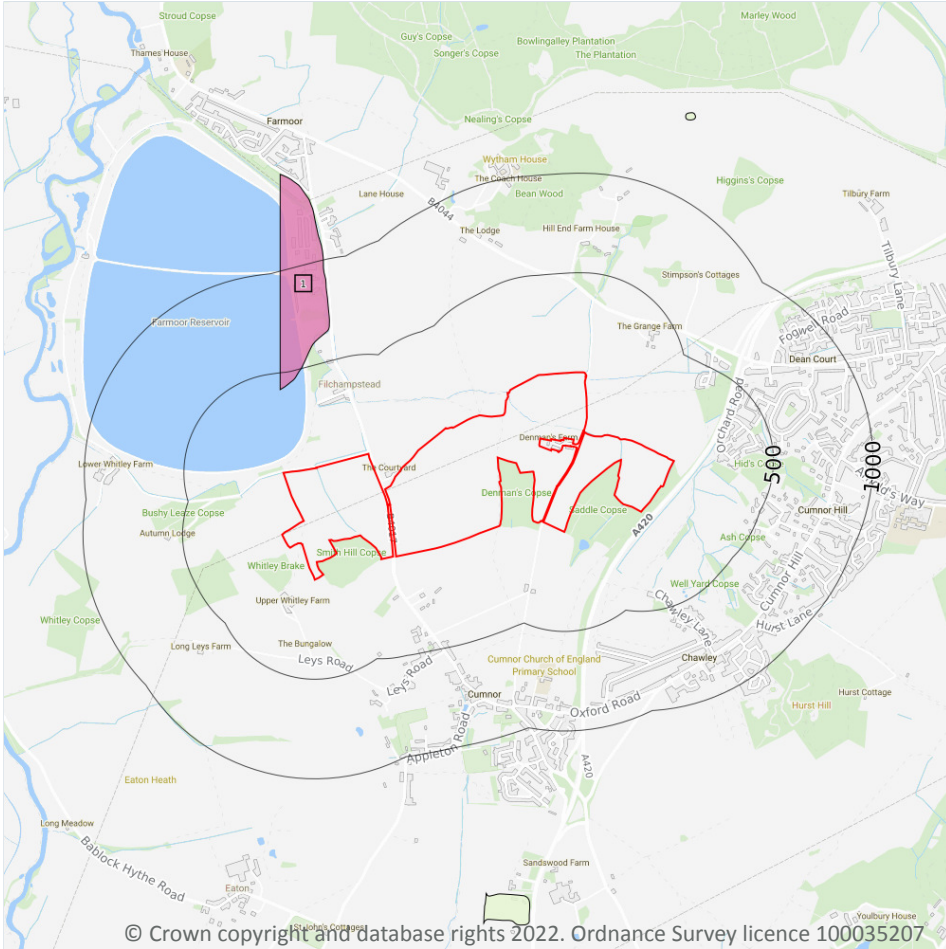
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 77**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SP40NE
2	On site	Full	Full	Full	Full	SP40SE
3	10m W	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



Site Outline

Search buffers in metres (m)

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

14.2 Artificial and made ground (10k)

Records within 500m **1**

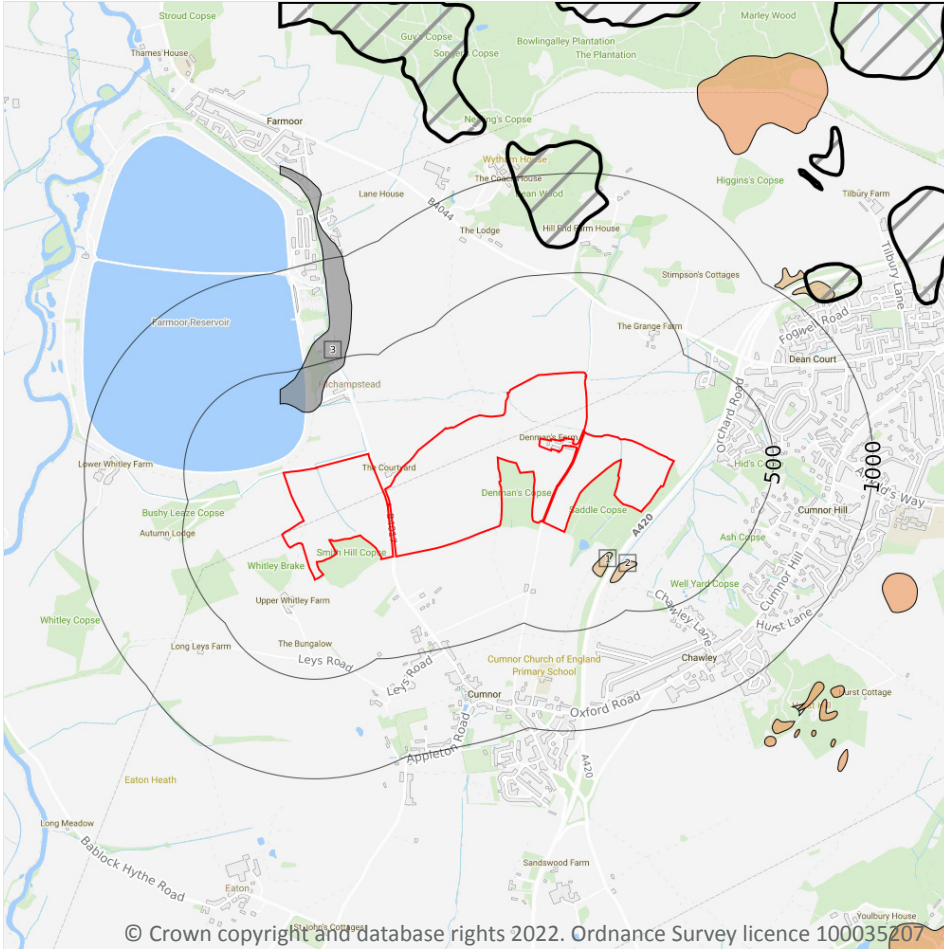
Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

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

ID	Location	LEX Code	Description	Rock description
1	416m N	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (10k)
- Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

3

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 79**

ID	Location	LEX Code	Description	Rock description
1	223m SE	PEAT-P	Peat - Peat	Peat
2	253m S	PEAT-P	Peat - Peat	Peat
3	278m N	ALV-CZ	Alluvium - Silty Clay	Clay, Silty

This data is sourced from the British Geological Survey.



14.4 Landslip (10k)

Records within 500m

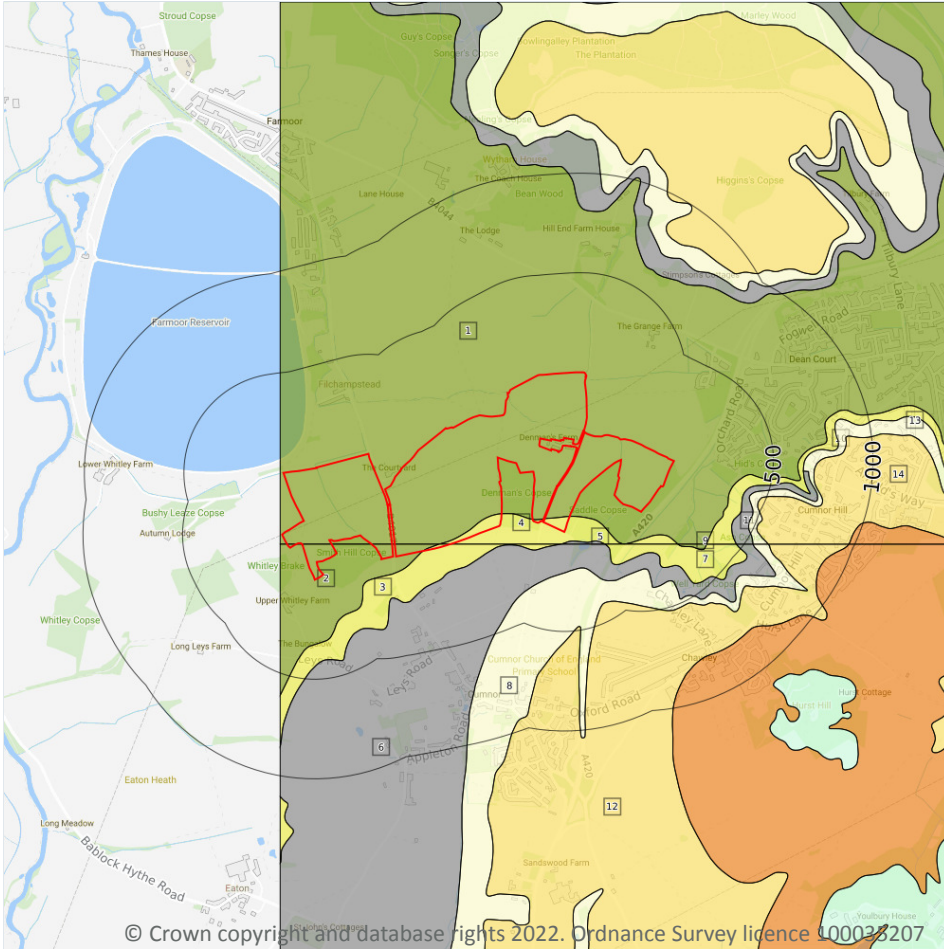
0

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



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (10k)
- Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

14

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 81**

ID	Location	LEX Code	Description	Rock age
1	On site	OXWW-MDST	Oxford Clay Formation And West Walton Formation (undifferentiated) - Mudstone	Oxfordian Age - Callovian Age
2	On site	OXWW-MDST	Oxford Clay Formation And West Walton Formation (undifferentiated) - Mudstone	Oxfordian Age - Callovian Age

ID	Location	LEX Code	Description	Rock age
3	On site	WWB-MDST	West Walton Formation - Mudstone	Oxfordian Age
4	On site	WWB-MDST	West Walton Formation - Mudstone	Oxfordian Age
5	53m S	TECY-SDST	Temple Cowley Member - Sandstone	Oxfordian Age
6	61m S	TECY-SDST	Temple Cowley Member - Sandstone	Oxfordian Age
7	163m S	WWB-MDST	West Walton Formation - Mudstone	Oxfordian Age
8	196m S	KTON-STMD	Kingston Formation - Sandstone And Mudstone	Oxfordian Age
9	246m SE	OXWW-MDST	Oxford Clay Formation And West Walton Formation (undifferentiated) - Mudstone	Oxfordian Age - Callovian Age
10	320m SE	WWB-MDST	West Walton Formation - Mudstone	Oxfordian Age
11	388m SE	TECY-SDST	Temple Cowley Member - Sandstone	Oxfordian Age
12	410m SE	STFD-LMST	Stanford Formation - Limestone	Oxfordian Age
13	420m SE	KTON-STMD	Kingston Formation - Sandstone And Mudstone	Oxfordian Age
14	472m SE	STFD-LMST	Stanford Formation - Limestone	Oxfordian Age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

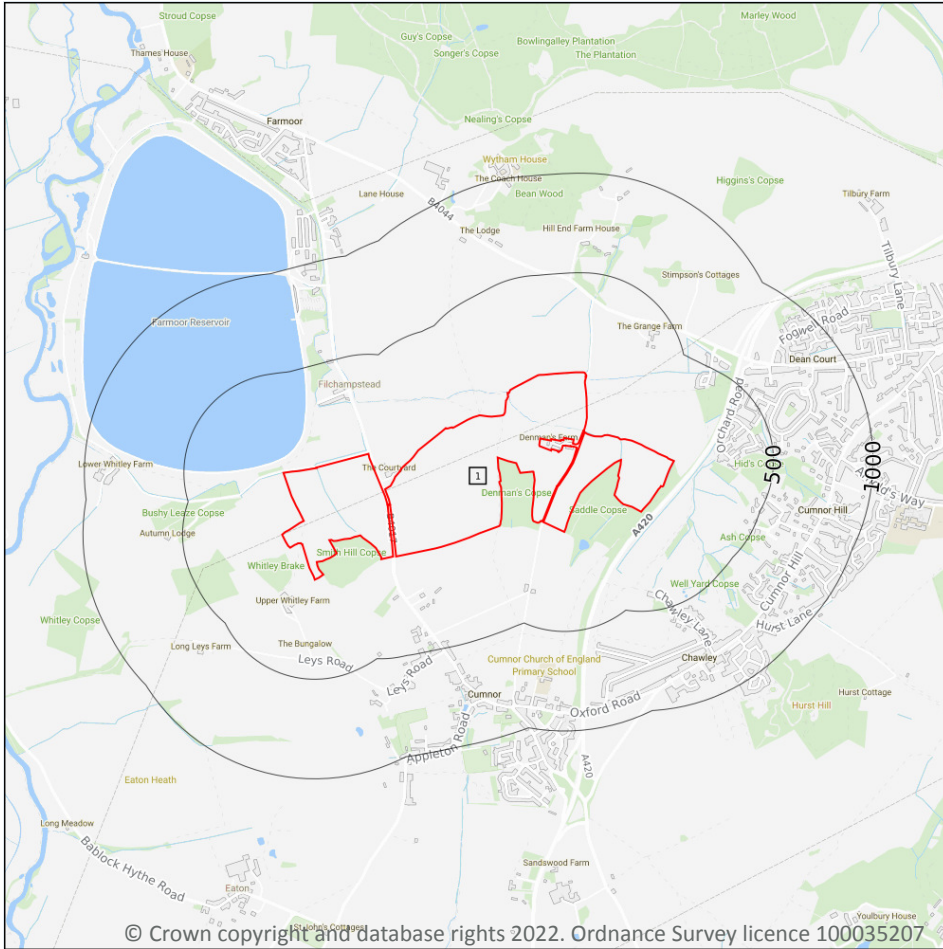
0

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

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

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

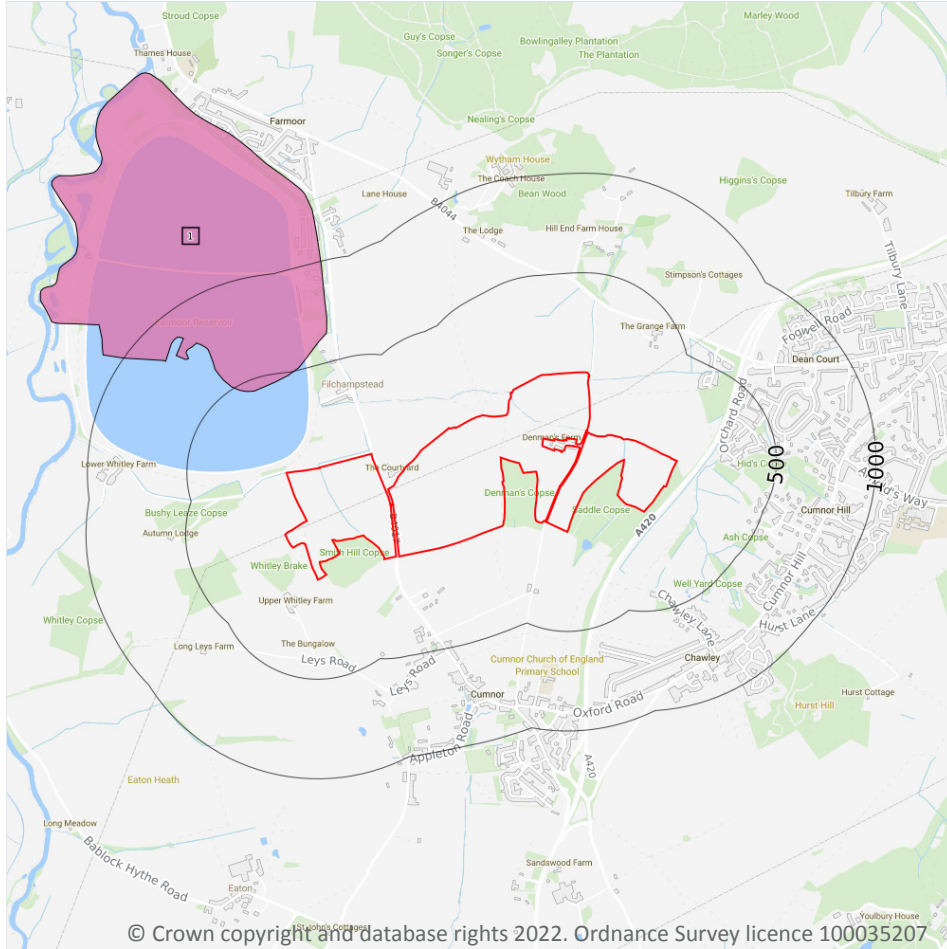
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 83**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	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 84**

ID	Location	LEX Code	Description	Rock description
1	441m N	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

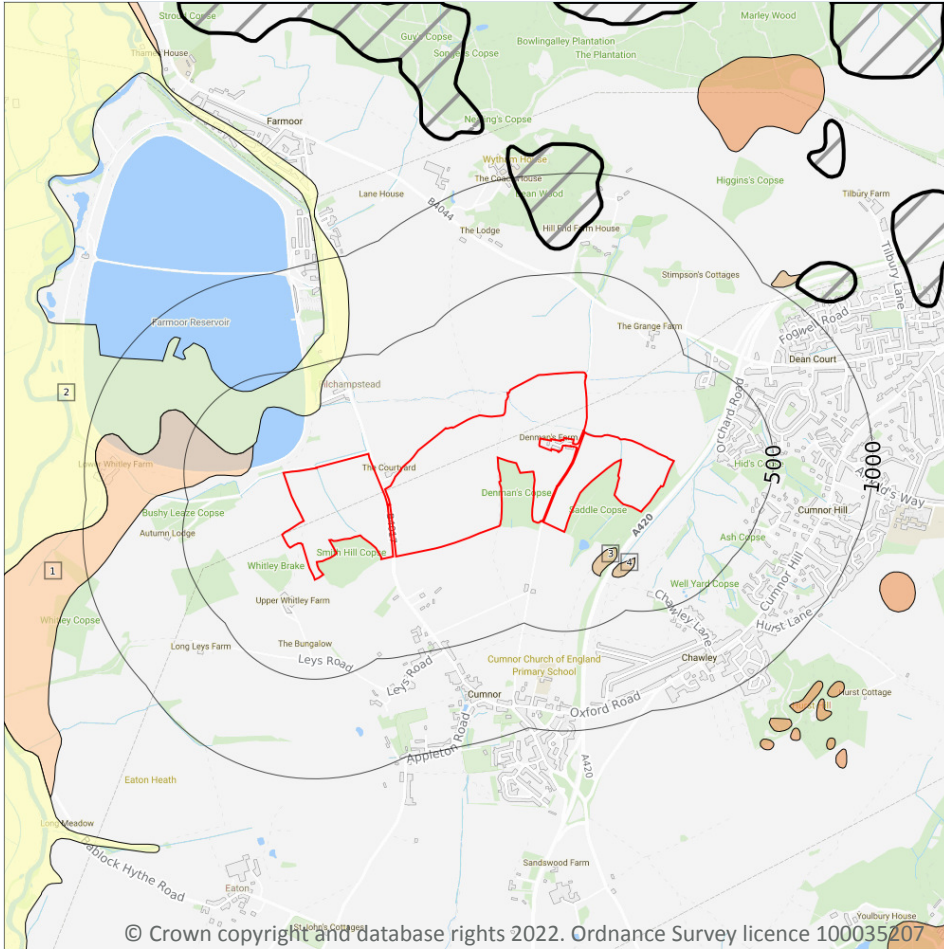
0

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

15.4 Superficial geology (50k)

Records within 500m

4

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 86**

ID	Location	LEX Code	Description	Rock description
1	168m W	NO-XSV	NORTHMOOR SAND AND GRAVEL MEMBER	SAND AND GRAVEL
2	205m NW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
3	210m SE	PEAT-P	PEAT	PEAT
4	234m S	PEAT-P	PEAT	PEAT

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

0

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

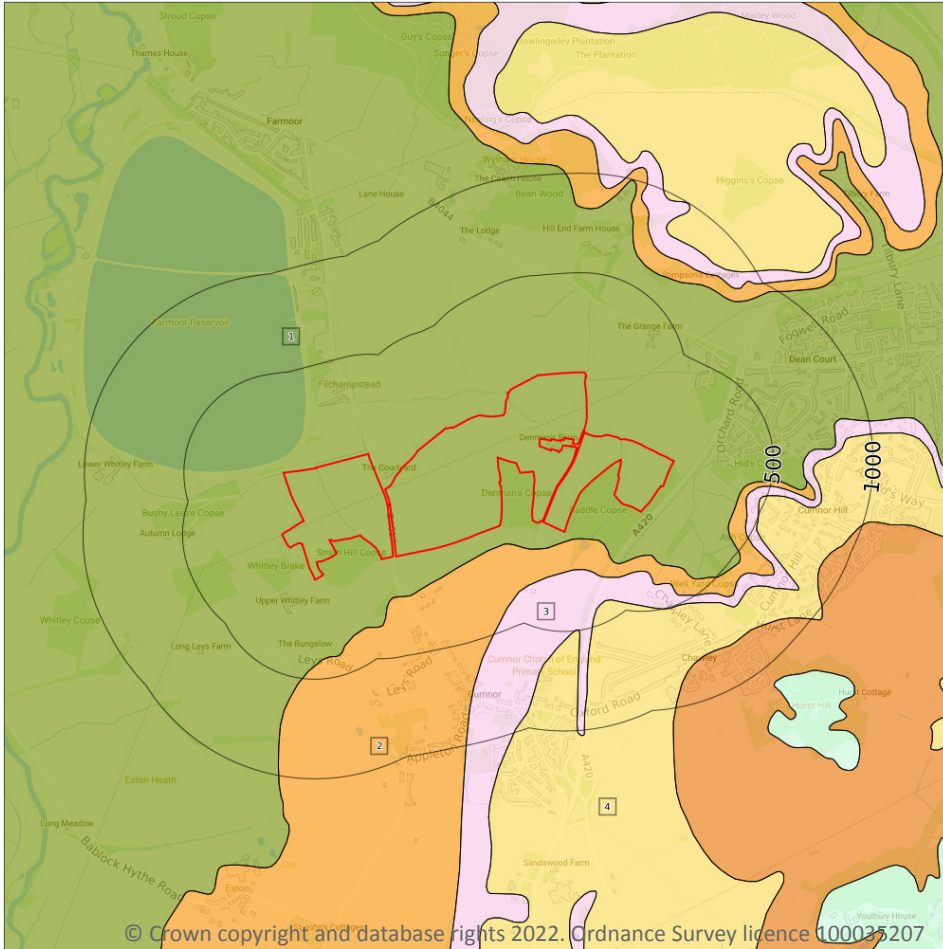
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



- 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

4

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

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

ID	Location	LEX Code	Description	Rock age
1	On site	OXWW-MDST	OXFORD CLAY FORMATION AND WEST WALTON FORMATION (UNDIFFERENTIATED) - MUDSTONE	CALLOVIAN
2	48m S	HYB-SDSM	HAZELBURY BRYAN FORMATION - SANDSTONE, SILTSTONE AND MUDSTONE	OXFORDIAN
3	196m S	KTON-SDST	KINGSTON FORMATION - SANDSTONE	OXFORDIAN

ID	Location	LEX Code	Description	Rock age
4	402m SE	STFD-LMST	STANFORD FORMATION - LIMESTONE	OXFORDIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	5
---------------------------	----------

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
10m NW	Fracture	Low	Very Low
30m SW	Fracture	Low	Very Low
48m SE	Mixed	High	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	0
----------------------------	----------

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.

This data is sourced from the British Geological Survey.

16 Boreholes

16.1 BGS Boreholes

Records within 250m

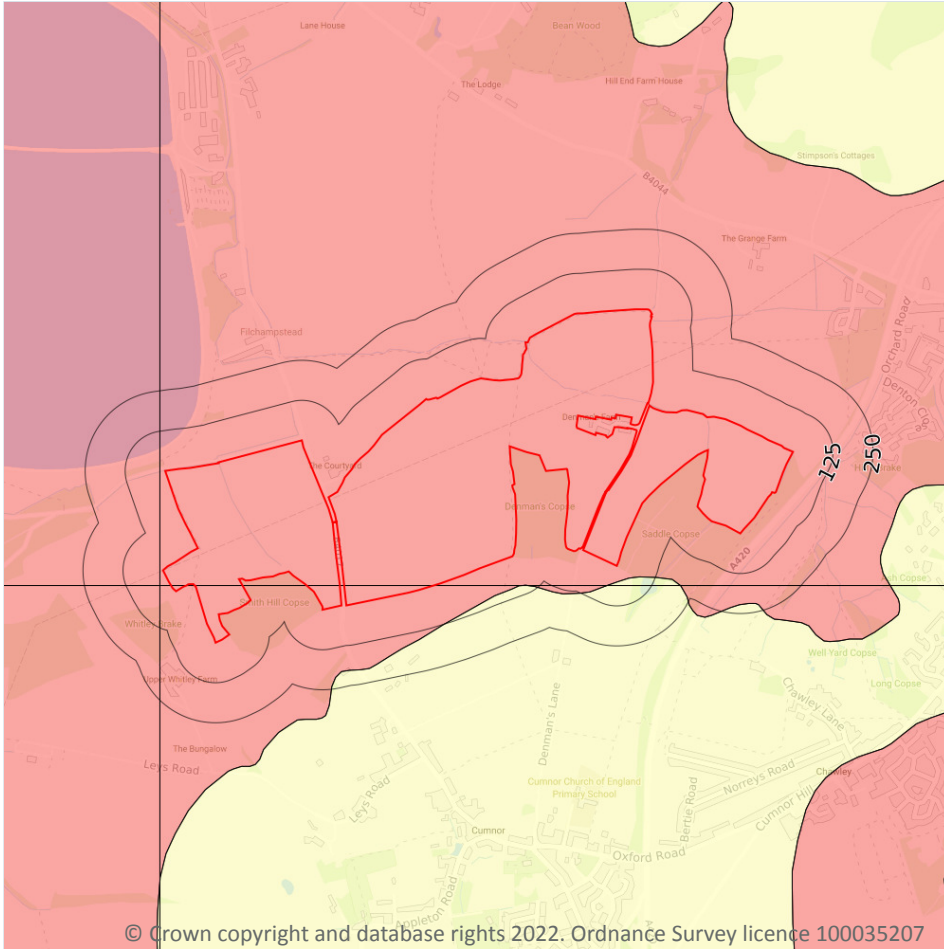
0

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

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

4

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 91**

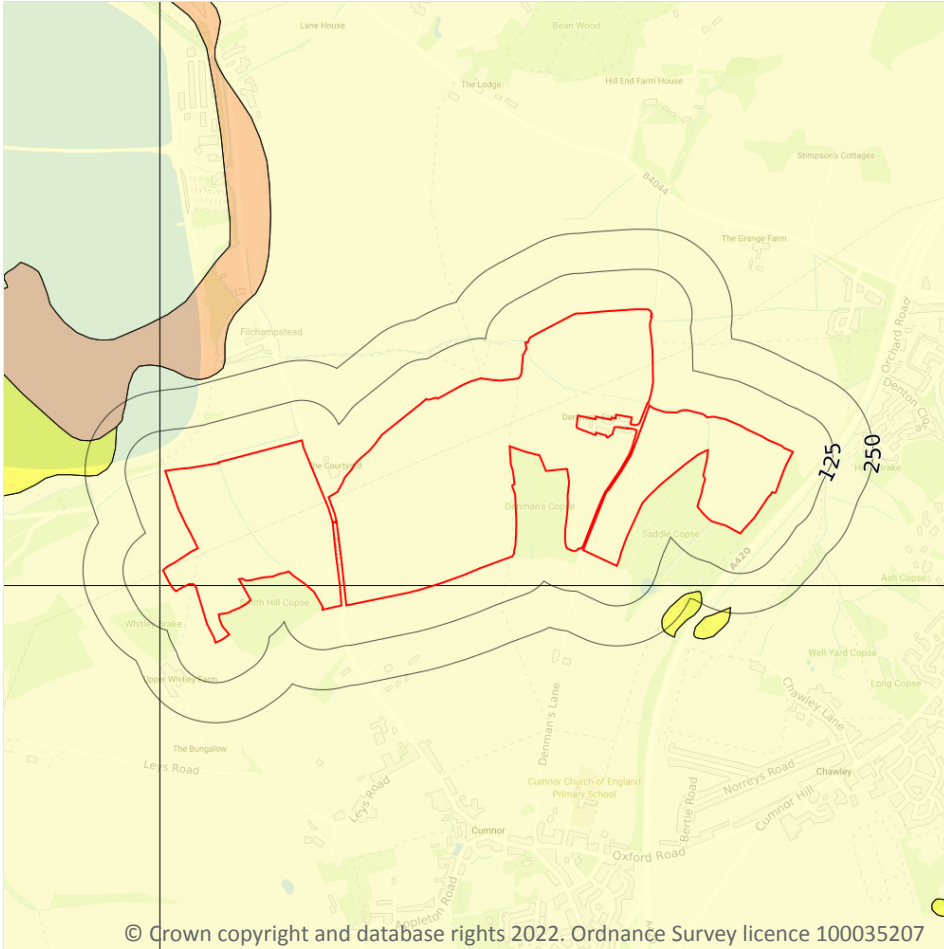
Location	Hazard rating	Details
On site	Moderate	Ground conditions predominantly high plasticity.
10m W	Moderate	Ground conditions predominantly high plasticity.
30m SW	Moderate	Ground conditions predominantly high plasticity.

Location	Hazard rating	Details
48m S	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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

17.2 Running sands

Records within 50m

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.

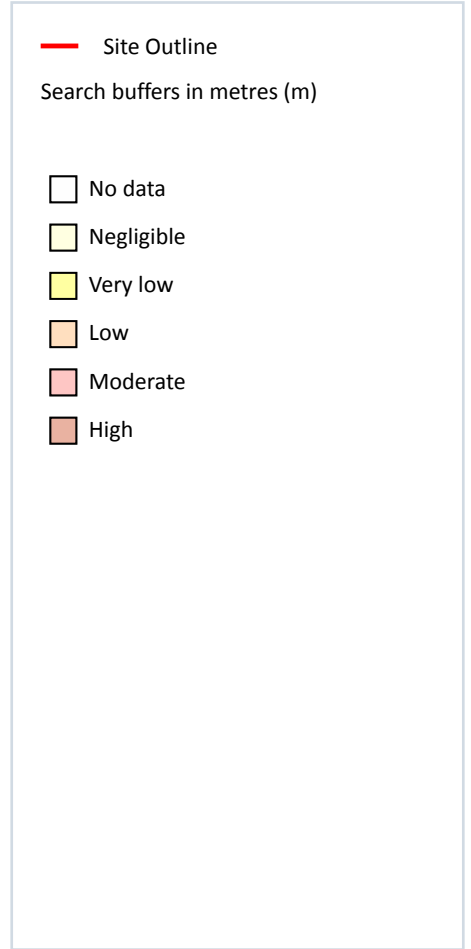
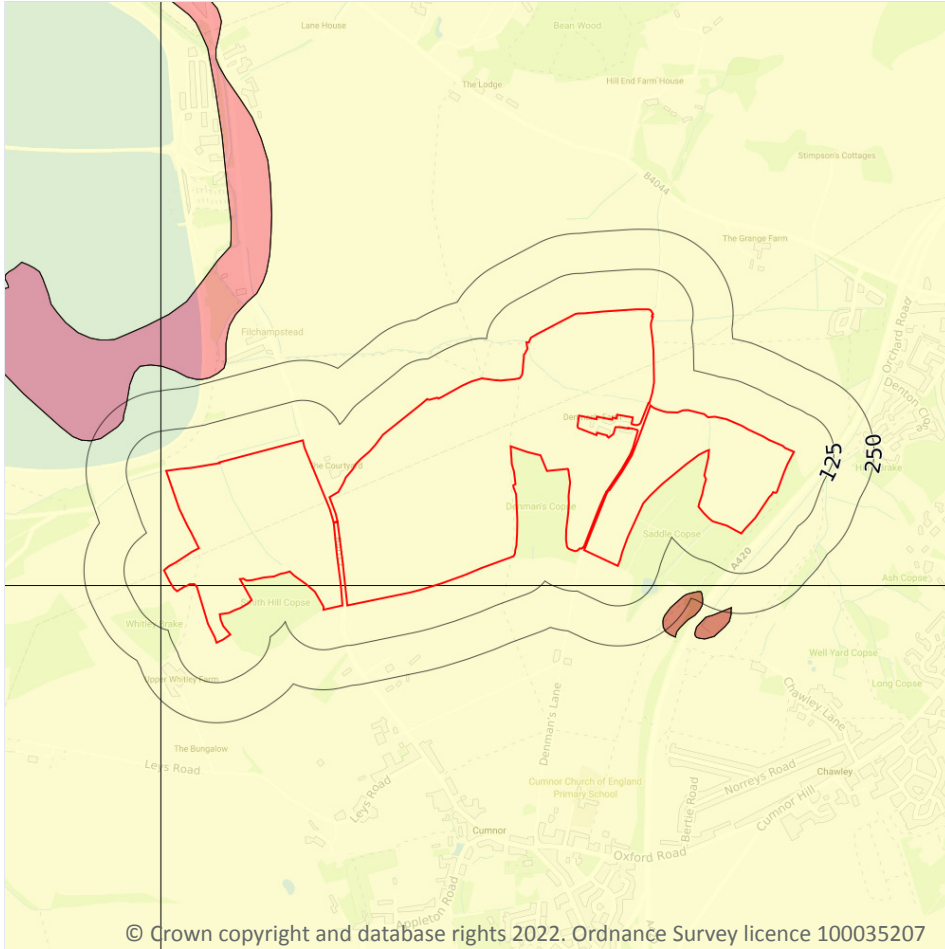
Features are displayed on the Natural ground subsidence - Running sands map on **page 93**

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
10m W	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.
30m SW	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

3

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.

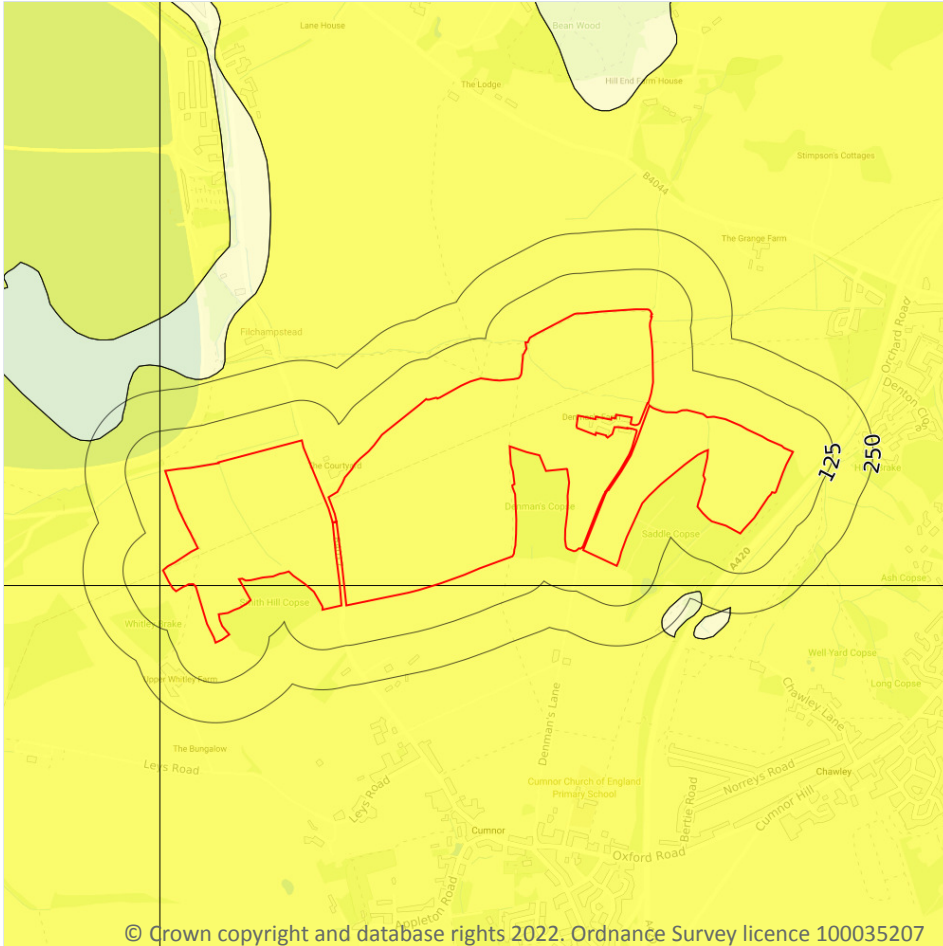
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 95**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
10m W	Negligible	Compressible strata are not thought to occur.
30m SW	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m

3

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

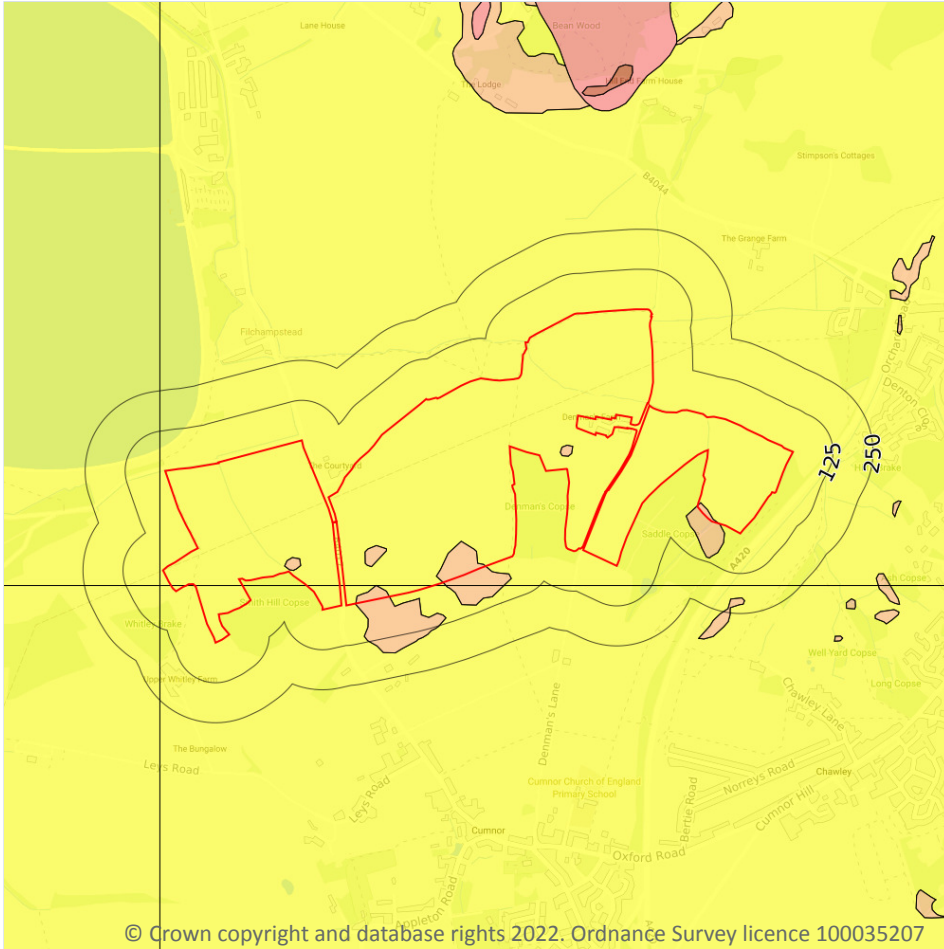
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 97**

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
10m W	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
30m SW	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



— Site Outline
Search buffers in metres (m)

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

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17.5 Landslides

Records within 50m

5

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

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

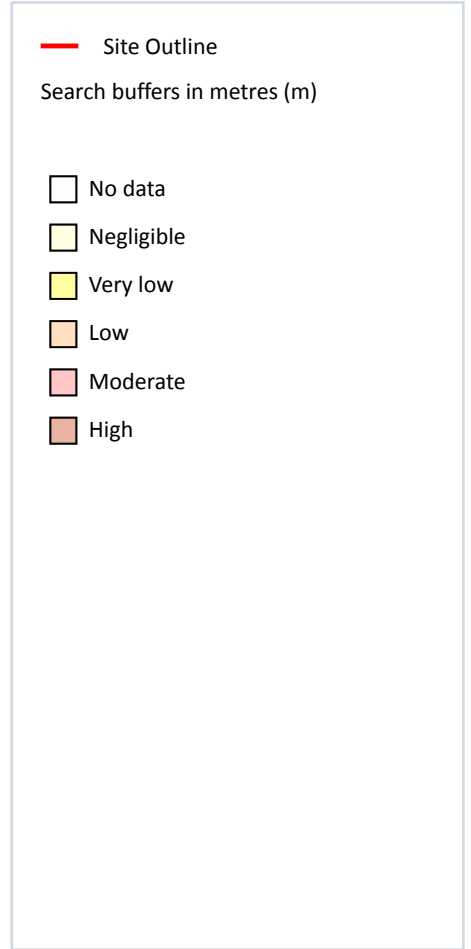
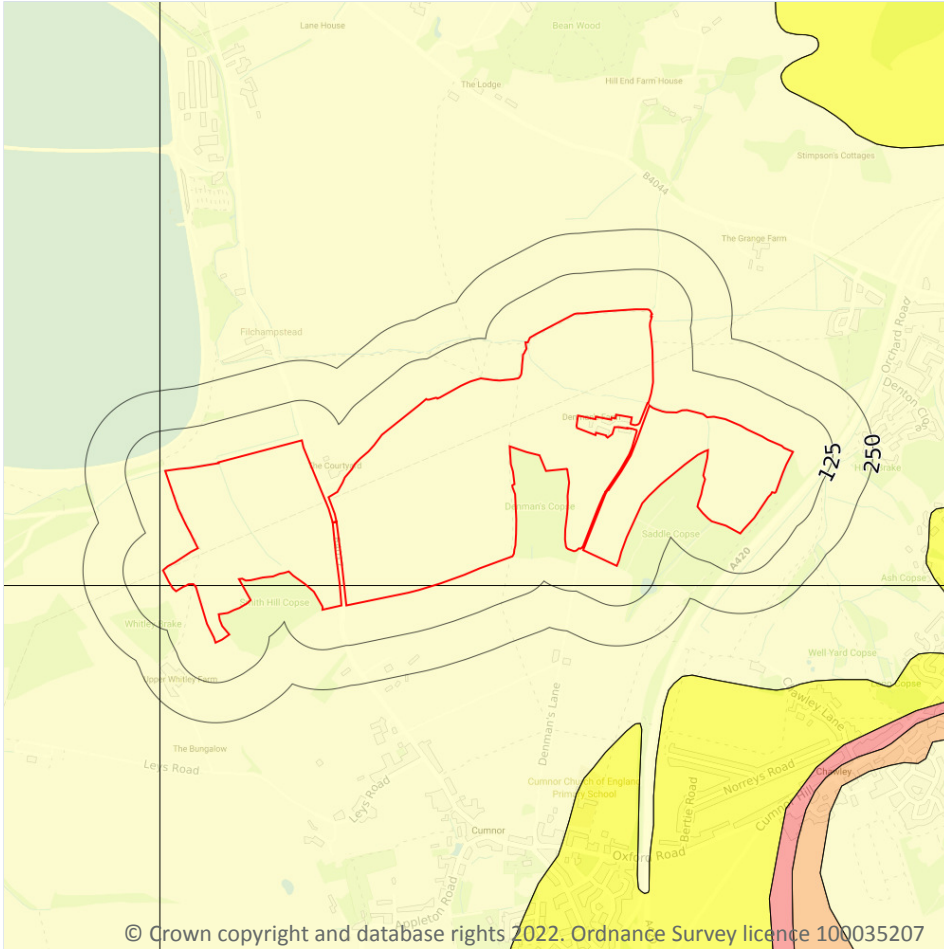
Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

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 W	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.
12m S	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
30m SW	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

3

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 100**

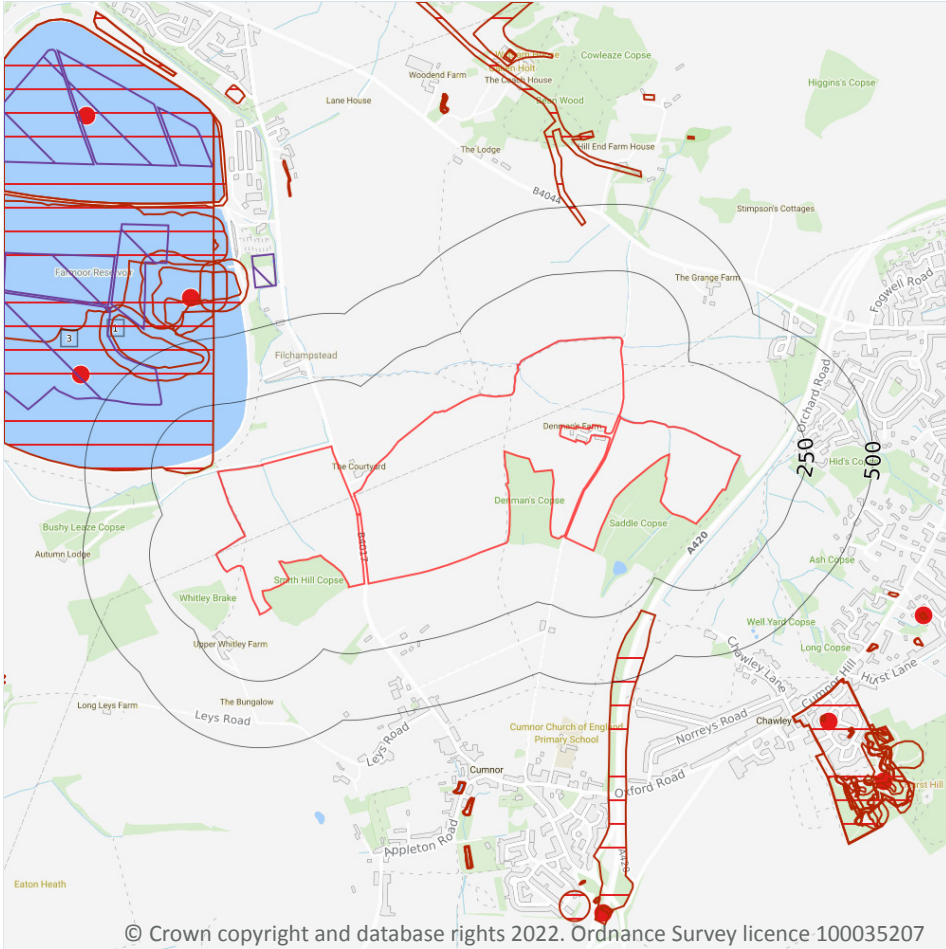
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

Location	Hazard rating	Details
10m W	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.
30m SW	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



18.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

1

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 102**

ID	Location	Land Use	Year of mapping	Mapping scale
1	35m NW	Reservoir	1988	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

1

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 102**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
3	331m NW	Farmoor Reservoir	Sand and gravel	Surface mineral working	Application	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

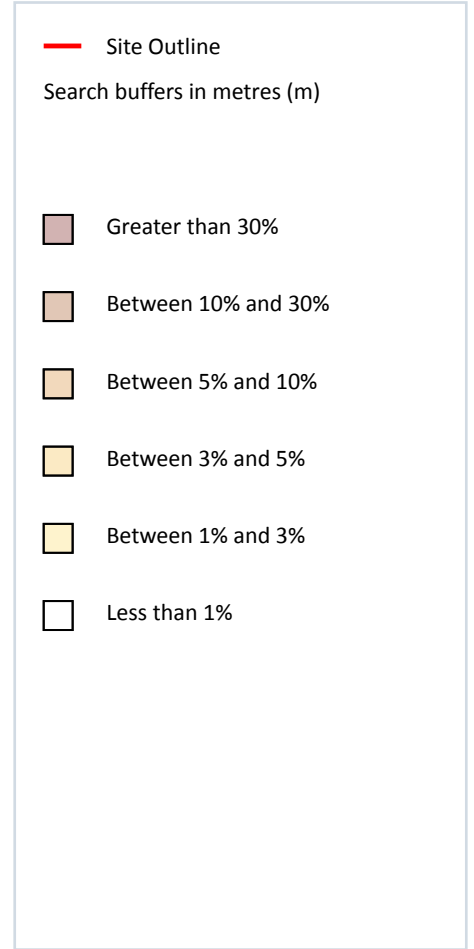
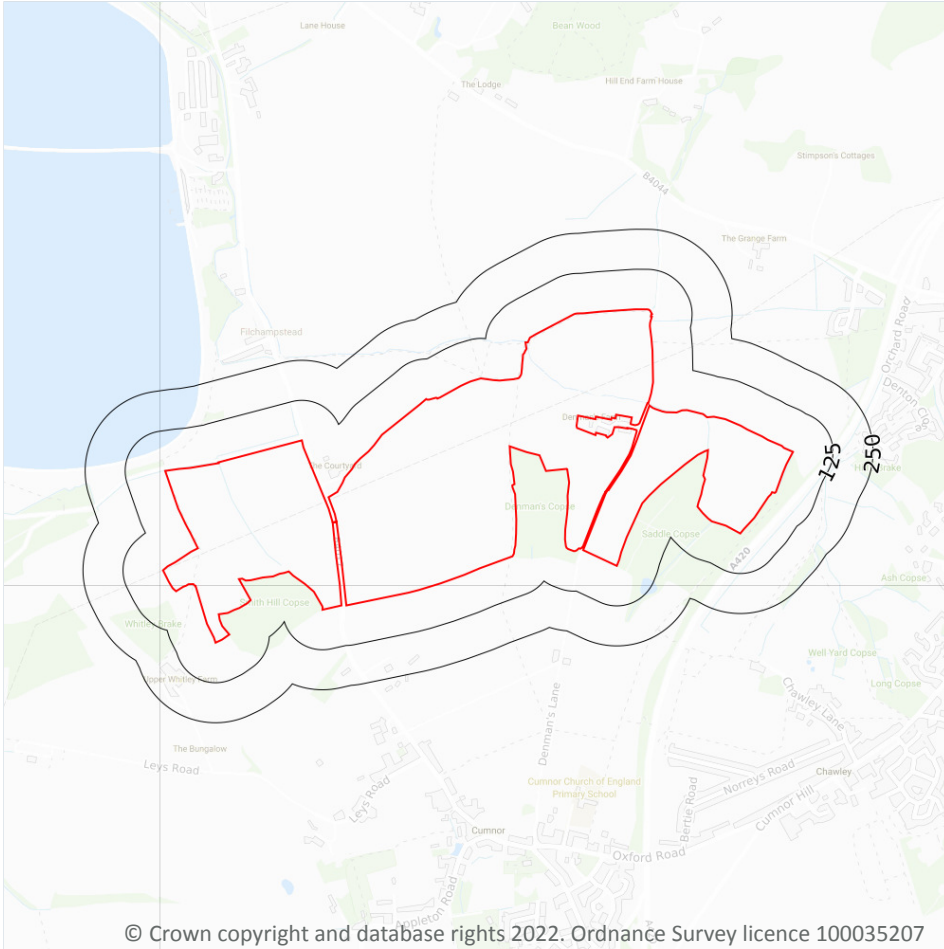
0

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



19.1 Radon

Records on site

1

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

Features are displayed on the Radon map on **page 106**

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

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

20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m **22**

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 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	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	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	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	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	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	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
10m 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



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
10m 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
23m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
30m 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
30m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
30m 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
30m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
47m NW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
48m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
50m 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
50m 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

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 km²).

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 km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects

21.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

0

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

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

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



This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

Terms and conditions

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