

ENVIRONMENT

Renewable Connections Development Ltd
Heath Road Solar Farm
Leicester
Minerals Assessment

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Minerals Assessment

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January 2026

DOCUMENT ISSUE RECORD

Document Number:	255315-BWB-XX-XX-T-G-0001_MA		
BWB Reference:	255315		
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Rev.	Date of Issue	Status	Comments	Updated By:	Approved:
P1	March 2025	S2	Initial Issue	-	-
P2	April 2025	S2	Updated Issue	Lucy Young	Richard Robinson
P3	January 2026	S2	Further Assessment	Thomas Flame	Richard Robinson

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1. INTRODUCTION

Instruction

- 1.1 BWB Consulting Ltd (BWB) was instructed by Renewable Connections Development Ltd (the Client) to prepare a Minerals Assessment for a site at Heath Road Solar Farm, Leicester. The proposed construction at the site is for a solar farm including two new cable routes to the point of connection into the electricity grid.
- 1.2 An "Indicative Proposed Site Layout" Plan is set out in **Appendix 1** (ref: RCN1008-PLE-01 Rev 11, dated February 2025).
- 1.3 The site is located within a Minerals Safeguarding Area (MSA), as defined by the Local Authority, for the protection of Sand and Gravel as aggregate minerals. The site is also located adjacent to an area with approved planning permission for the expansion of a brick works.

Objectives

- 1.4 As the site is located in an MSA, this Minerals Assessment has been prepared in order to consider the impact of the proposed development on mineral resources at the site and potential impacts on likely extraction in the wider area.

2. THE SITE

Site Location

- 2.1 The site (excluding the cable infrastructure) is approximately 27.36 hectares (ha) in size, located west of Leicester. It is centred at approximate British National Grid reference 445452, 305858. The approximate location and boundaries of the site are shown below as **Figure 2-1**.

Figure 2-1: Site Location Plan



Site Description

- 2.2 The site is an irregularly shaped parcel of arable field and extends from Heath Road at the northern boundary to Merrylees Road at the southern boundary. The proposed development area is identified on **Figure 2-1**.
- 2.3 The topography of the northern half of site gently slopes downwards from west to east. The southern half slopes down towards the southeast. Surface level elevations across

the site range from c. 130m Above Ordnance Datum (AOD) in the southeast to c. 140m AOD in the northwest.

3. GROUND CONDITIONS

Data Sources

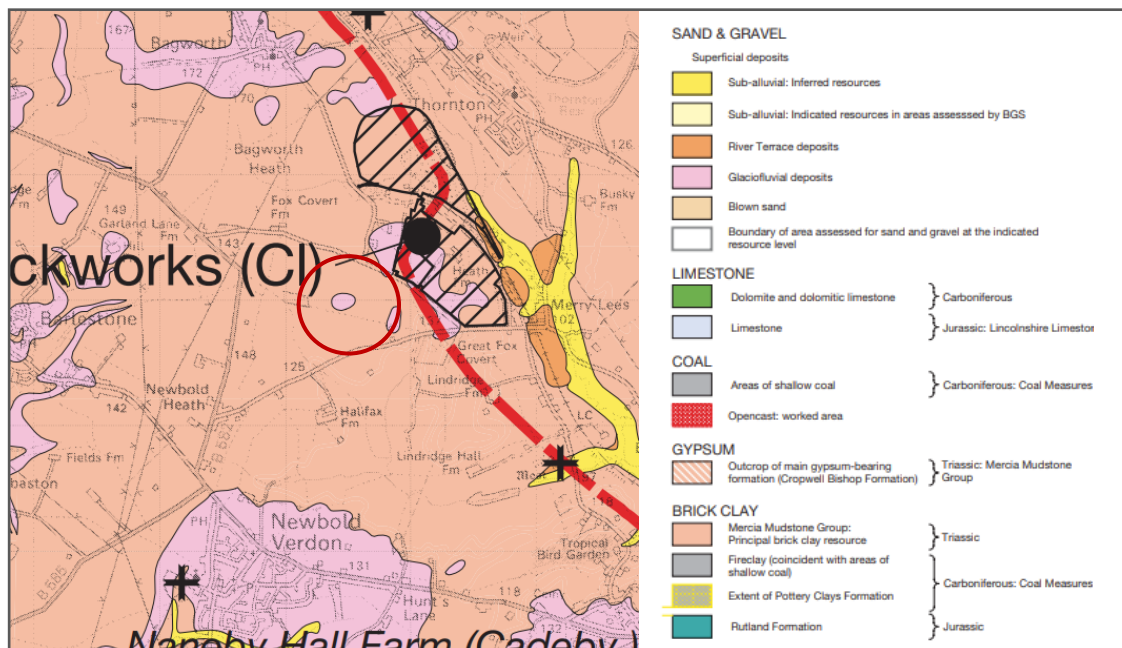
- 3.1 The data sources reviewed as part of this appraisal of site ground conditions are listed as follows:
- British Geological Survey (BGS) Geological Map Number 155, Coalville, 1:50,000 edition, Solid and Drift, dated 2010;
 - Online BGS Geology of Britain Viewer (3D);
 - Online Geoindex Onshore mapping (minerals);
 - BGS 'Leicestershire and Rutland Minerals Resources Map', 1:100,000, dated 2002;
 - Leicestershire Minerals and Waste Local Plan (2016);
 - Leicestershire County Council – Local Aggregate Assessment (2023);
 - Minerals and Waste Safeguarding: Hinkley and Bosworth Borough (2015);
 - Groundsure Enviro+Geo Insight Report. Merrylees Road Solar Farm, Reference: GS-5G1-AIU-OE3-BDA (**Appendix 3**).

Geology

- 3.2 Information published by the BGS indicates that the site is predominantly underlain by natural Superficial soils of the Oadby Member in the southern half of the site and the Thrussington Member in the northern half. A small zone of (granular) Glaciofluvial Deposits is depicted in the southern section of the northern half of the site and the edge of another in the northeastern corner of the southern half of the site. The bedrock beneath the site is indicated to comprise strata of the Edwalton Member – mudstone, with the Cotgrave Sandstone Member mapped beneath the southern corner of the site, and Gunthorpe Member mudstone beneath the north of the site. BGS mapping indicates the Gunthorpe Member may be present beneath the Edwalton Member across the site. Units of the Mercia Mudstone Group including the Edwalton and Gunthorpe are present to approximately 120m bgl, with Pennine Middle Coal Measures beneath.
- 3.3 The BGS map for Coalville shows the Glaciofluvial Deposits are typically underlain by Oadby Formation, which itself may be underlain by further Superficial soils including the Thrussington Member. A cross-section through Bagworth (c.1km north of site) shows bedrock strata of the Edwalton Member completely underlain by Cotgrave Sandstone Member.
- 3.4 The Oadby Member and Thrussington Member are both defined by BGS as Glacial Till (Diamicton) comprising poorly sorted clay, silt, sand and gravel, but predominantly cohesive, of variable thicknesses.
- 3.5 The Glaciofluvial Deposits are defined as (granular) sand and gravel, patchy and localised (limited, variable thicknesses).

- 3.6 The Edwalton Member is defined as mudstone and siltstone, red-brown and greenish grey, with beds (skerries) of indurated variably dolomitic siltstone, and very fine-grained sandstone common in the lower half; finely disseminated gypsum is common in the upper half (c. 35-45m thick).
- 3.7 The Cotgrave Sandstone Member is defined as sandstone fine to medium -grained dolomitic, pale greenish grey interbedded with mudstone and siltstone, dark greenish-grey; with common gypsum nodules.
- 3.8 The Gunthorpe Member is defined as mudstone, red brown with subordinate dolomitic siltstone and fine-grained sandstone, greenish grey, common gypsum veins and nodules.
- 3.9 No Made Ground is mapped onsite according to the BGS data.
- 3.10 Based on the Figure HK1 within the S4/2015: Mineral and Waste Safeguarding Hinckley and Bosworth Borough, the Minerals Safeguarding Area (MSA) that covers the sand and gravel resources onsite is relatively small and relates to the two zones of Glaciofluvial Deposits, the extents of which are defined above. These can also be seen in the Leicestershire and Rutland Minerals Resources Map, an extract of which is shown in **Figure 3-1** with the approximate site location circled in red.
- 3.11 The Groundsure Report indicates Glaciofluvial sand and gravel only accounts for approximately 6.40% of the site area (c. 1.75 hectares). More extensive deposits of sand and gravel within the Hinckley and Bosworth Borough are mapped in Figure HK1 as further west in a longitudinal strip extending from Bagworth to Hinckley.

Figure 3-1: Mineral Resource Map



- 3.12 BGS borehole records typically indicate thin horizons of gravel (locally overlying cohesive Till) underlain by sandstone and/or mudstone of the Mercia Mudstone Group

(previously known as the Keuper Marl) with Coal Measures strata below depths of 93m below ground level (bgl). Two members of the Mercia Mudstone Group are present in the area; the Edwalton and Gunthorpe members. Pertinent BGS records are summarised in **Table 3-1** below including those onsite, a typical example for the area, and two local boreholes that recorded sand and gravel.

Table 3-1: Local BGS Records Summary

BGS Record Ref.	Location	Ground Conditions
SK40NE38	Northwestern section of site	0 to 3m Gravel 3 to 24m Sandstone 24 to 124.22m Mudstone, sandstone and siltstone; coal seams at: 111.42 to 111.90m (broken in top 5cm) 121.04 to 121.10m (appear inferior) 122.63 to 122.71m (cylinders, pyrite common) 122.72 to 123.28m (cylinders) 123.37 to 123.67m
SK40NE5 SK40NE60	Southeastern section of site	0 to 7.92m Glacial boulder clay (interbedded gravel and clay; includes two distinct "gravel" horizons, each only 2ft – 0.61m - thick) 7.92 to 96.62m Keuper Marl (red and/or grey marl, gypsum, with some sandstone layers at depth) 96.62 to 99.67m Coal Measures
SK40NE24	Approximately 554m northeast of site, within Desford Brickworks	0 to 8.38m Boulder Clay* 8.28 to 73.20m Keuper Marl (red brown marl and pale green sandstone) *This record is from 1963; this area has since been excavated for clay, so this layer is no longer expected to be present.
SK40NE37	Approximately 354m northeast of site	0 to 6m Gravel (quartz and flint) 6 to 83m Predominantly grey-green or red brown mudstone and siltstone, and grey-green sandstone; coal seams at: 107.07 to 110.46m (solid, broken or cylinders) 115.45 to 115.48m (inferior) 123.72 to 124.16m (appears inferior) 133.10 to 135.84m (appears inferior)
SK40NE26	Approximately 1km east of site.	0 to 12.04m Sand 12.04 to 29.52m Boulder Clay 30.43 to 59.13m Keuper Marl (1.27m sand, followed by sandstone, siltstone and marl)

- 3.13 A plan indicating the location of the BGS records is presented as **Figure 3-2** with relevant exploratory hole logs presented in **Appendix 2**.

Figure 3-2: BGS Borehole Records



Hydrology & Hydrogeology

3.14 The geology beneath the site has been classified by the Environment Agency (EA) as follows:

- Thrussington Member: Secondary Undifferentiated Aquifer.
- Oadby Member: Secondary Undifferentiated Aquifer.
- Glaciofluvial Deposits: Secondary A Aquifer.
- Edwalton Member and Gunthorpe Member – mudstone: Secondary B Aquifer.
- Cotgrave Sandstone Member: Secondary A Aquifer.

3.15 SK40NE38 recorded the resting groundwater level at a depth of 18.3m bgl, within the sandstone strata of the borehole. The water was also bailed to 53.3m and recorded an inflow of 20 gallons per minute (gpm). SK40NE37 did not record a resting groundwater level, but was bailed to 56.20m, after which it refilled to 39.50m bgl at 9gpm and then to 30m at 5gpm.

3.16 Water catchment data included within the Groundsure Report (**Appendix 3**) indicates that the site is in the catchment for the Rothley Brook (tributary of the River Soar). It also indicates there to be a small stream, oriented NW-SE, along the southwestern boundary of the site. A similarly oriented stream is also present 250m east, both flowing in a south/southeasterly direction. These streams converge to the south of site and then flow to the east to join Rothley Brook.

Mineral Extraction and Coal Mining

3.17 Mineral extraction and coal mining has been undertaken in the surrounding area, especially to the northeast of the site, noted on the Groundsure Report, included as **Appendix 3**. These are summarised below:

- Heath Farm Gravel Pits, approximately 160m north and 330m northeast, recorded as ceased. This is confirmed by historical mapping as it is labelled 'old gravel pit' on the 1885 map.
- Desford Colliery is mapped approximately 625m northeast of site. This was in operation from c. 1901 to <2001.
- A brick works and associated clay pit are mapped approximately 400m northeast of site at its closest (1984); this is indicated to be in operation from c. 1930 to <2001.
- An active clay quarry is present c. 450m northeast of site, as part of Desford Brick Works Ltd (owned by Forterra Plc); the extension to this clay quarry was approved in 2019 and covers the area directly bordering the Heath Solar Farm site to the northeast (see Leicestershire County Council application 2018/CM/0110/LCC). It should be noted the original quarry and extension cover a larger area of glaciofluvial sand and gravel deposits, as shown in **Figure 3-1**. The site is in an MRA for Sand and Gravel extraction and not clay extraction.

4. MINERAL PLANNING IN LEICESTERSHIRE

Leicestershire Minerals and Waste Local Plan

- 4.1 The Leicestershire Core Strategy is presented within the Leicestershire Minerals and Waste Local Plan (MWLP), adopted September 2019, and due to be in place until the end of 2031. This document sets out the planning strategies and policies to preserve the supply of minerals in Leicestershire.
- 4.2 The site is located within a Minerals Safeguarding Area for the protection of sand and gravel; therefore, applications for development of this scale require approval to ensure that viable mineral resources are not sterilised by other, non-mineral forms of development.
- 4.3 The site is not located within a Minerals Safeguarding Area for brick clay. However, Desford Brickworks, an active site operated by Forterra, is located approximately 500m east of the site. The site has recently secured planning permission to expand into the fields adjacent to the east of site.

Strategic Objectives

- 4.4 The Strategic Objectives of the Leicestershire MWLP are as follows:
1. *To make sufficient provision of minerals in the County of Leicestershire to meet national and local requirements.*
 2. *To make sufficient provision of waste facilities in the County of Leicestershire with capacity equal to the waste generated within the County of Leicestershire.*
 3. *To provide mineral sites and waste management facilities in the most sustainable locations so that movement other than by road is maximised, untreated waste transportation is minimised, the development of previously developed land is encouraged, and the needs of local communities and industry are met.*
 4. *To co-ordinate and work with all relevant organisations, in particular Leicester City Council and Leicestershire Local Authorities, to ensure that the Local Plan addresses planning issues that cross administrative boundaries.*
 5. *To attain the maximum possible reuse, recycling, composting and recovery of value from waste within the County of Leicestershire and thereby minimising the disposal of waste.*
 6. *To safeguard mineral resources, mineral sites and associated infrastructure, and waste management facilities from inappropriate development.*
 7. *To reduce the impact of minerals and waste developments upon climate change.*
 8. *To protect people and local communities, and the natural, built and historic environment (particularly the River Mease Special Area of Conservation) from unacceptable effects of minerals and waste developments.*

9. To ensure that land with a temporary use is subsequently restored, managed and maintained to an after-use of high quality at the earliest opportunity which respects the local area's character, provides a net gain in biodiversity and allows greater public access whilst affording opportunities for recreational, economic and community gain in mitigation or compensation for the effects of development where possible.
10. To complement and support wider strategies including the Leicester and Leicestershire Economic Growth Plan, green infrastructure projects and strategies such as the National Forest and Charnwood Forest Regional Park.

Key Points

4.5 Key points relevant to Sand and Gravel at the subject site within the Leicestershire MWLP include:

- In Leicestershire there are two distinct types of sand and gravel deposit: sub-alluvial and river terrace; and glaciofluvial. The former occur predominantly in the valleys of the Rivers Trent, Soar and Wreake. In contrast, Glaciofluvial deposits occur in complex, isolated deposits to the south and west of Leicestershire. The presence of extensive boulder clay and other superficial deposits has the potential to completely conceal some these glaciofluvial deposits, making the extent of this resource unknown.
- Average sales for sand and gravel operations within Leicestershire between 2005-2014 were 1.12 million tonnes per annum. Sales for 2014 showed signs of significant improvement, being approximately 31% higher than for 2013, and the highest since 2003.
- Sand and gravel operations within Leicestershire tend to serve local markets with 57.8% of sales in 2014 were within Leicestershire/Rutland. Material exported went primarily to neighbouring areas, particularly West Midlands and Northamptonshire.
- A continued supply of sand and gravel from Leicestershire is expected to be required, whoever the County Council recognises that calculating demand is increasingly uncertain. The rate of economic growth and infrastructure investment within the County and neighbouring areas is expected to heavily influence the level of demand.
- It is therefore considered appropriate to base the provision of sand and gravel in this plan on average sales over the last 10 years. The situation will however be carefully monitored as any increase in annual outputs very much depends on operational and economic factors outside the control of the County Council. If a higher production rate continues for an extended period, then the overall requirement will need to be re-assessed.
- Estimated permitted reserves of sand and gravel in Leicestershire as at the end of 2014 were around 8.09 million tonnes. This is only sufficient permitted material to last 7 years, based on the average rate of production over the preceding 10 years.
- Priority will be given to proposals for extraction as extensions to existing site operations. Any new quarries will be required to replace existing sand and gravel sites that are nearing exhaustion (where no extension is possible or required levels of provision cannot be met). They must also offer significant benefits as a result of exchange or surrender of existing permissions or be significantly more acceptable overall than allocated sites.

4.6 Key points relevant to brick clay at the subject site within the Leicestershire MWLP include:

- The important role that bricks and related products play in determining the appearance and quality of our built environment is widely recognised. The variety of brick products contributes significantly to the rich regional and local architectural heritage of mainland Britain as well as the repair of traditional brick built structures. Consumers are likely to continue to demand a wide choice of high quality, affordable bricks. In order to satisfy this demand, remain competitive and meet increasingly stringent environmental controls, the industry requires continued access to a range of clay resources.
- The Triassic Mercia Mudstone is the principal source of brick clay in Leicestershire. The resource occurs extensively within western Leicestershire. Presently there are 5 brickworks with adjacent clay pits, all within north western Leicestershire.
- Modern brickmaking technology requires a high capital investment and is increasingly dependent, therefore, on raw materials with predictable and consistent firing characteristics in order to achieve high yields of saleable products.

The County Council will ensure a steady and adequate supply of brick clay by:

- Allowing extensions to existing sites where they are required to maintain a landbank of at least 25 years of permitted reserves to support the level of investment required to maintain and improve existing brick-making plant and equipment;
- Giving priority to proposals for extraction to be worked as extensions to existing sites with associated brickworks; and
- Allowing new brick clay extraction sites where it can be demonstrated that production cannot be maintained from existing sites and appropriate extensions to existing sites

Existing Reserves – Sand and Gravel

4.7 Sand and Gravel deposits are classified as one of the three aggregate minerals provided within Leicestershire according to Leicestershire MWLP (adopted 2019).

4.8 As detailed in **Section 3.0**, Glaciofluvial Deposits only underlie small zones in the eastern part of the northern half of the site, and the extreme north eastern corner of the southern half.

4.9 The BGS defines typical criteria for an economically workable deposit as follows:

- The deposit should average more than 2m in thickness;
- The ratio of overburden to mineral should not exceed 1:1;
- The proportion of fines should not exceed 15 – 25% silt or 10 - 15% clay; and
- The deposit should lie within 5 – 10m of the surface.

4.10 Few of the local BGS borehole records refer to sand and gravel deposits, with the exception of SK40NE38 in the northwestern section of the site ("gravel" 0 to 3m), SK40NE37 to the northeast of site ("gravel" 0 to 6m) and SK40NE26 at some distance to the east of the site ("sand" 0 to 12.04m).

- 4.11 SK40NE38 in the northwestern section recorded "gravel" from 0 to 3m below ground level (bgl), suggesting sand and gravel deposits in this area would fit the above criteria. However, boreholes in the local area predominantly recorded (cohesive) Boulder Clay and or Keuper Marl and were devoid of (granular) sand and gravel. Therefore, the extent of these Sand and Gravel deposits within the subject site is expected to be limited.
- 4.12 Table 2 of the MWLP indicates the following demand and existing reserves based on averages over the last 10 years:
- Annual Requirement – 1.12Mt
 - Total Plan period requirement – 19.04Mt
 - Total permitted reserves at 31/12/2014 – 8.09Mt
 - Additional reserves permitted in 2015 – 1.42Mt
 - Shortfall 2014-2031 – 9.53Mt
- 4.13 The Leicestershire Aggregate Assessment (LAA) published in 2022 noted:
- 4.14 *Paragraph 4.6: Estimated permitted reserves of sand and gravel in Leicestershire at the end of 2022 were 2.23 million tonnes. The reserves will provide sufficient permitted material to last 2 years based on the average rate of sales over the last 10 years (Table 14). An application for an extension at Lockington Quarry (reference 2019/2358/07) was submitted in 2020 and remains undetermined. An application for a proposed new sand and gravel quarry in Quorn, Leicestershire was submitted in 2021. The application seeks planning permission for the extraction of 1.01 million tonnes of sand and gravel and remains undetermined. An application for further extraction of 900,000 tonnes of sand and gravel at Husbands Bosworth Quarry was submitted in 2021 and during the 2022 monitoring period, remained undetermined (reference 2021/0683/03). This application was granted planning permission in January 2023 and will be reported as part of the 2023 monitoring period.*
- 4.15 *Paragraph 4.7: In 2022 existing sites had a total potential production capacity of around 1.45million tonnes per annum, which meant that they were theoretically capable of producing sufficient material to satisfy the level of provision identified in the adopted Minerals and Waste Local Plan. However, it should be noted that since 2021 there has been a decrease in production capacity.*

Existing Reserves – Brick clay

- 4.16 Desford Brick Works was assessed in 2013 by Hanson, the operators at the time, as containing 6.6 million tonnes of brick clay, enough to last until 2030. The site has since been bought by Forterra who increased output.
- 4.17 Planning permission has been granted since this assessment for expansion of the brick clay extraction area in to fields adjacent to the site. Under the granted planning permission (ref. 2024/EIA/0081/LCC), it identified an expected yield of 5.7M tonnes of brick clay, which would provide circa 16.7 years supply of mineral reserve. This suggests that further extension may be desirable before the end-life of the solar farm (40-years).

- 4.18 The Gunthorpe Member is generally considered better for brick production because it has higher clay content and better plasticity, which improves moulding and firing properties, and it produces bricks with good strength and durability when gypsum content is controlled. The Edwalton Member, while usable, tends to require more processing and blending with other clays to achieve suitable brickmaking properties.
- 4.19 Brick clay reserves as indicated by the historic boreholes on site are indicated below.
- SK40NE38: In the north of site indicates potential brick clay strata from 26.00 to 108.28m bgl. This is described as a variety of sub-units of siltstone, mudstone and sandstone.
 - SK40NE60: In the south east of site and encountered various Marls (an older term used to describe brick clay), with occasional bands of sandstone between 8.00 and 97.00m bgl.
- 4.20 Considerable reserves of potentially viable brick clay are therefore present beneath the site. However, the BGS mapping indicates that the Gunthorpe Member will be at increasing depth as you move west across the site due to increasing thicknesses of both Till and Edwalton Member. This may reduce the economic viability of using the site for brick clay extraction, particularly in western parts. Depths of up to 15m would typically be considered most viable, though this could be extended to 30m where workable clay is of particularly high quality and there are no site constraints to efficient excavation. Deposits below 30m are rarely worked.
- 4.21 Neither the boreholes, nor the sections available through the BGS for the area distinguish between the Gunthorpe and Edwalton Members. Further investigation would be required to determine the relative thickness of these members of the Mercia Mudstone Group, and their suitability for brick clay production. Based on the BGS records available, it's expected that the Gunthorpe Member would be between shallow (<15m) and moderate (up to 30m) depth. Mercia Mudstone units of both the Gunthorpe and Edwalton members comprise the bedrock of the majority of the surrounding area, and are therefore widely available.
- 4.22 Nationally, brick manufacture represents well over 90% of total brick-clay demand, with the domestic housing market being the dominant driver of consumption. There are approximately 50 works producing bricks from clay in the UK, primarily concentrated in the Midlands, the South East, the North West, and Yorkshire and the Humber.
- 4.23 At the national scale, recent construction materials statistics show rising demand for bricks, evidenced by a 28.4% year-on-year increase in brick deliveries in November 2024, with further uplift to 138 million brick deliveries in May 2025, reflecting recovery within the housebuilding sector. These increases in brick usage directly indicate strengthened demand for raw brick clay reserves within the UK. Although brick clay extraction is geographically constrained, relying on specific mineralogical and firing characteristics, the presence of workable clay on this site does not, in isolation, trigger safeguarding considerations.

5. Environmental Sensitivity

Agricultural Land Classification

- 5.1 The soils at the site are classified as Grade 3. It is understood that the Client has commissioned an Agricultural Land Classification survey for this site which has identified soils at the site are predominantly classified as Grade 3b (93%), with some Grade 3a (6%) and non-agricultural land (1%). Grade 3 soils are defined as good to moderate quality agricultural land. Land with moderate limitations 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.

Visual and Cultural Designations

- 5.2 There are no visual or cultural designations within 250m of the site.

Priority Habitats

- 5.3 Areas of Deciduous Woodland are mapped: c. 240m east, 110m north/northeast and just west of site. These are Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Environmental and Ecological Sites

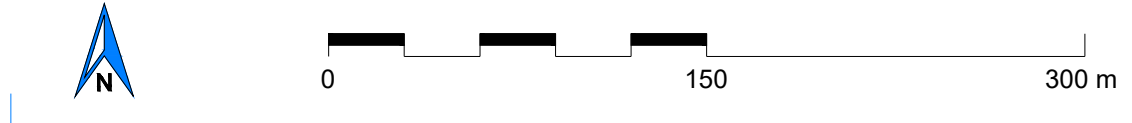
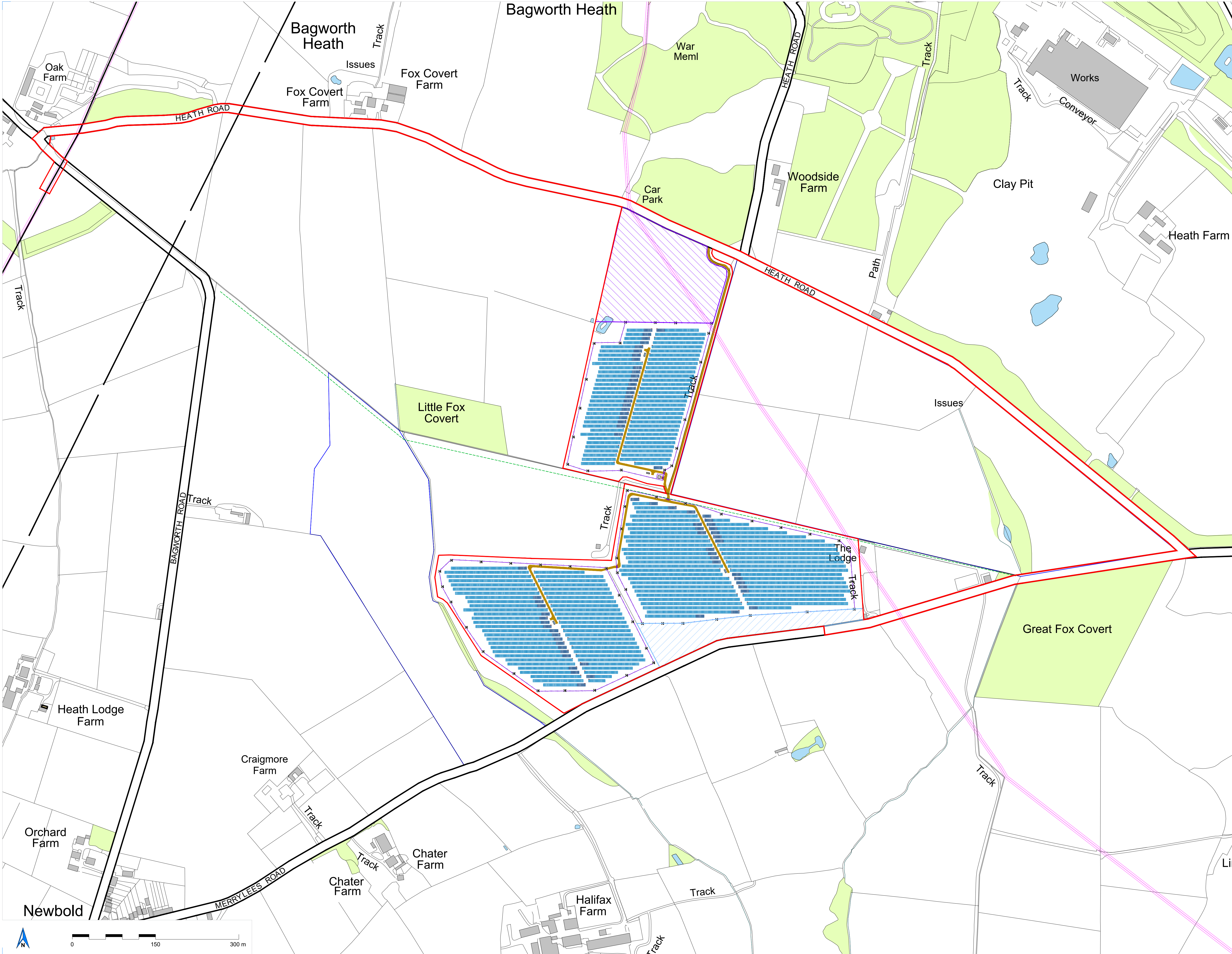
- 5.4 The site is within a Nitrate Vulnerable Zone for the River Soar and two SSSI Impact Risk Zones. Excluding this, there are no further significant sites of environmental or ecological significance including Sites of Special Scientific Interest (SSSI), Conserved wetland sites (Ramsar sites), Special Areas of Conservation (SAC), Special Protection Areas (SPA), National Nature Reserves (NNR), or Local Nature Reserves (LNR).

6. CONCLUSIONS

- 6.1 The Heath Road Solar Farm site lies within a Minerals Safeguarding Area (MSA) for sand and gravel, with limited Glaciofluvial Deposits identified across approximately 6.4% of the site. Borehole data suggests these deposits are thin and patchy, and therefore unlikely to represent an economically viable resource under current criteria set by the Leicestershire Minerals and Waste Local Plan. The Leicestershire Aggregate Assessment (LAA) indicated that in 2022 the existing sand and gravel sites in the county had production capacity of around 1.45 million tonnes per annum. This is theoretically sufficient to meet the level of provision stated in the Minerals and Waste Local Plan. However, it should be noted that since 2021 there was a decrease in production capacity.
- 6.2 The site is not within an MSA for brick clay; however, significant reserves of Mercia Mudstone Group strata (Edwalton and Gunthorpe Members) are present at depth beneath the site. Desford Brick Works Ltd gained consent for an extension to the nearby clay quarry in 2019. The extension area lies immediately adjacent to the Heath Solar Farm application boundary to the northeast but does not overlap. The extraction rates provided suggest that the reserves in the quarry would be exhausted in around 16.7 years of operation. The site is underlain by clay strata that could be suitable for use as brick clay, further investigation would be required to determine the full extents, depths and suitability of useable brick clay, although workable brick clay is likely present. Mercia Mudstone strata with potential use of brick clay are abundant in the surrounding area, and the resource is not localised to the brick works close to the site.
- 6.3 This report demonstrates there is no risk of the proposed solar farm development permanently sterilising sand and gravel mineral resources that may be present. The site is not in an MSA for brick clay but would temporarily sterilise possible expansion of the clay pit for brick clay extraction. Brick Clay is a widely available resource nationally, and the temporary sterilisation of this resource does not therefore trigger mineral safeguarding concerns.

APPENDICES

Appendix 1: Indicative Proposed Site Layout



- Notes:
- All dimensions to be confirmed on site prior to installation.
 - All dimensions are indicative only and in m unless otherwise specified.
 - Drawing based on satellite data:
Imagery date: 16/06/21

Reference drawings

Data-Solar_GroundMount_Project Form_Heath Road.docx	---	17/08/22
RC107 - 21-11-10 - Heath Road Fixed Layout REV3.pdf	---	17/08/22
RC107 - 22-01-17 - Heath Road NM2.amx	---	17/08/22
Heath Road Updated.amx	---	13/11/23
VML_26404.dwg	---	13/11/23
RC107 - Heath Road.dwg	---	13/11/23
2302103-TK01A-TK02A-TK03.dwg	---	22/07/24
Drainage Strategy - DRAPI 1 new RLB.pdf	---	22/07/24
Tree Survey.pdf	---	22/07/24

- Legend:
- Site boundary (31.90 ha)
 - Perimeter fence
 - Maintenance track
 - Customer substation
 - DNO
 - 20ft. Power Station
 - Inverter
 - Gate
 - OHL
 - Footpath
 - Skylark mitigation
 - Ecological enhancement area
 - CCTV



Revisions:

Rev	Date	Comments	Drawn	Approve
0	19/08/22	First issue	AP	DB
1	02/09/23	Changes in PV layout	GU	AP
2	02/09/23	Changes in PV layout	GU	AP
3	21/11/23	PV area added, site boundaries changed, configuration changed	IM	NM
4	11/11/23	Layout update	FJ	NM
5	23/07/24	Design constraints implemented	EL	GU
6	12/08/24	Layout update	IV	GU
7	19/08/24	Layout update	IV	GU
8	11/09/24	Layout update	IV	GU
9	11/11/24	Site boundary, skylark and ecological areas	IV	GU
10	14/11/24	Compound area removed	IV	GU
11	10/02/25	Site boundary updated	IV	GU

Project: Heath Road
Location: Heath Road and Merry Lees, Bagworth, LE9 9NR, UK
52.648197°, -1.329302°
Title: Indicative Proposed Site Layout

Drawn: Detra Solar / IV Checked: AM
Scale: 1:3000@A1 Date: 12/02/25
Drawing No: RCN1008-PL-01 Rev: 11

renewable connections
Level 4, LDN/W, 3 Noble Street
London, EC2V 7EE
+44 (0)20 7749 2650
www.renewableconnections.co.uk

detra SOLAR
Detra Solar
Lvovo str. 25-104,
LT-09320 Vilnius
www.detrasolar.com

Do not scale from this drawing. Site verify all dimensions prior to construction.
Report all discrepancies to the drawing originator immediately. This drawing is to be read in conjunction with all relevant documents and drawings.

Appendix 2: BGS Records



4582.0567

Page 1 of 3
6 inch Map
Registered No.
SK/KONE/5
155

SECTION OF

DRETFORD COAL COMPANY No. 5. BORINGHOLE.

Exact Site 830-yards at 44° from Halifax Farm.

Level at which ~~shaft~~ ^{bore} commenced relative to O.D. + 430-ft
131.1

Date of sinking or boring 1915

Sinker or Borer J. Thom.

One Inch Geological Map 155

Six Inch Map (County and Quarter Sheet) Leics. 30-S.W.



NATURE OF STRATA		THICKNESS		DEPTH	
Geologist's Notes	Borer's Journal	Feet	In.	Feet	In.
	Soil and Gravel	2	0	(0.61)	2 0
	Red clay and boulders	12	0	14	0
	Gravel	2	0	4.46	16 0
	Red clay and stones	10	0	7.92	26 0
	Red and grey marl	24	0	30	0
	Soft Red marl	11	0	41	0
	Red Marl	2	0	43	0
	Grey Marl	2	0	45	0
	Red and grey marl	13	0	78	8
	Soft red marl	8	0	86	8
	Grey strong marl	2	0	88	8
	Red marl	7	4	96	0
	Grey marl	2	0	98	0
	Red marl	4	6	102	6
	Hard grey marl	2	0	104	6
	Soft red marl	4	2	108	8
	Grey marl	4	0	112	8
	Red marl	2	0	114	8
	Grey sandy marl	2	4	117	0

(3) . SK40NE/5 4582.0567

NATURE OF STRATA		THICKNESS		DEPTH	
Geologist's Notes	Borer's Journal	Feet	In.	Feet	In.
	Red sandy marl and sandstone with gypsum	8	1	208	6
	Red sandstone		8	209	2
	Grey sandstone		4	209	6
	Red marl	2	0	211	6
	Red and grey sandstone	2	0	213	6
	Red marl	2	0	215	6
	Grey sandy marl	1	6	217	0
	Red sandy marl	1	6	218	6
	Red sandy marl and sandstone	2	6	221	0
	Grey sandy marl and sandstone	3	6	224	6
	Red and grey marl	2	0	226	6
	Red sandstone		8	227	2
	Red sandy marl	1	7	228	9
	Red sandy marl and gypsum	2	0	230	9
	Red and grey marl	1	0	231	9
	Red and grey sandy marl and sandstone bands	7	0	238	9
	Red and grey marl	1	0	239	9
	Soft red and grey sandstone	5	0	244	9
	Grey and red sandstone	4	0	248	9
	Red and grey marl	2	0	250	9
	Coarse red and grey sandstone	6	6	257	3
	Red and brown sandstone	1	0	258	3
	Red and grey marl	1	0	259	3
	Coarse red sandstone	1	0	260	3
	Red and grey sandy marl and gypsum	7	0	267	3
	Soft red and grey marl	1	0	268	3
	Coarse red and grey sandstone	4	3	272	6



Series 520

SK40NE/5

4582 0567

Form P.7d

6 inch Map
Regd. No.

8

SECTION OF Desford Coal Company No. 5 Borehole
Six Inch Map (County and Quarter Sheet) Leics 30 SW

NATURE OF STRATA		THICKNESS		DEPTH	
Geologist's Notes	Borer's Journal	Feet	In.	Feet	In.
	Strong grey marl	3	0	120	0
	Strong red and grey sandy marl with gypsum	7	1	127	1
	Gypsum		1	127	2
	Red and grey marl and gypsum	5	7	132	9
	Gypsum		4	133	1
	Strong red and grey marl	1	0	134	1
	Red marl	3	0	137	1
	Red and grey marl with gypsum bands	7	1	144	2
	Dark red and grey marl with gypsum bands	3	3	147	5
	Strong grey marl		9	148	2
	Red marl and gypsum bands	6	0	154	2
	Soft red marl with gypsum bands	6	0	160	2
	Red and grey marl with gypsum bands	4	0	164	2
	Red sandy marl and gypsum	3	8	167	10
	Grey marl and gypsum	3	0	170	10
	Grey sandy marl and gypsum	2	6	173	4
	Red sandy marl	1	6	174	10
	Red and grey marl	4	0	178	10
	Red marl	1	5	180	3
	Red sandy marl and gypsum	7	0	187	3
	Grey and sandy marl and gypsum	3	1	190	4
	Red sandy marl and sandstone	1	4	191	8
	Grey sandy marl	2	6	194	2
	Red sandy marl and gypsum	6	3	200	5

Series 520

SK4ONE/S

Form P.71

6 inch Map
Regd. No.

4582.0567

2

SECTION OF Desford Coal Company No. 5 Borehole
Six Inch Map (County and Quarter Sheet) Leas, 30 SW

[illegible]



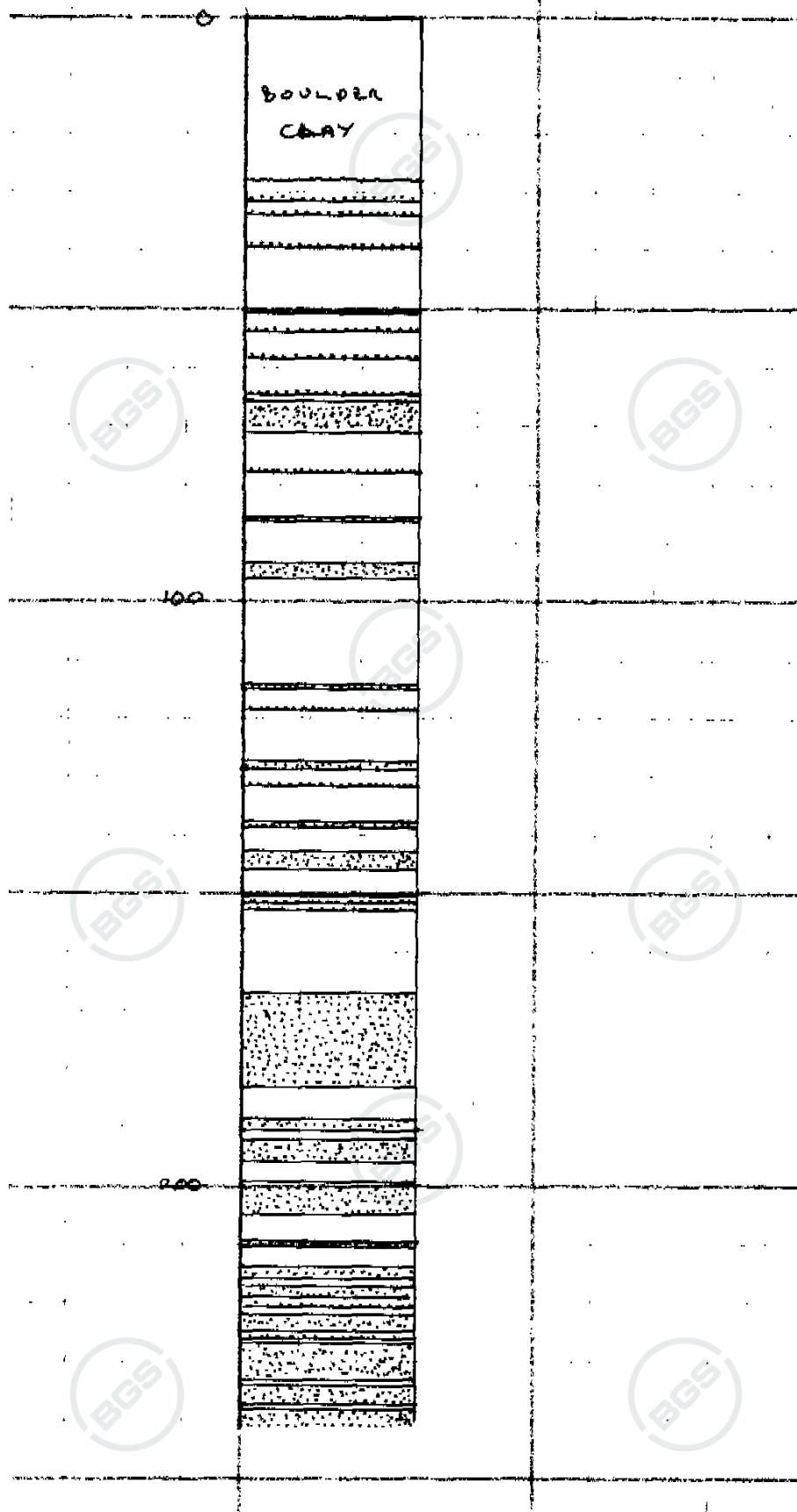
DESFORD BRICKWORKS No 1 (1963)

SK40NE24

SL 458.69 FT

SK 46156 06202

1 IN: 40 FT





Page 1/4

GEOLOGICAL SURVEY OF GREAT BRITAIN

RECORD OF SHAFT OR BORE FOR MINERALS

Name of Shaft or Bore given by Geological Survey:

DESFORD BRICKWORKS NO.1 (1962) BH. SN9023

Name and Number given by owner:

as above

For whom made

N.C.B.

Town or Village

Bagenorth

County

Shropshire

Exact site

1745 yds at 205° from the creek end of St. Peter's Church, Thornton

Attach a tracing from a map, or a sketch-map, if possible.

Purpose for which made

to form quality & thickness of Hard Marl

Ground Level at shaft

bore

relative to O.D. + 458.69 ft

If not ground level give O.D. of beginning of shaft

bore

Made by

Dr. J. A. 139.80 ft

Date of sinking

May 1962

Information from

examination of core

Date received

Examined by

A. D. M. Adam for Geological Survey

(For Survey use only)

6-inch Map Registered No.

155/317

SK40NE24

Nat. Grid Reference

E. 446156 N. 306202

1" N.S. Map

No.

1" O.S. Map

No.

Confidential or not

155

SPECIMEN NUMBERS AND ADDITIONAL NOTES

(For Survey use only) GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	Thickness		Depth	
		Fr	in.	Fr	in.
	Coring commenced at 11/0; core only fragmentary to about 50/0				
	Boulder Clay, red-brown clay with pebbles of chert, flint, quartzite, mudstone, etc.	(8.58)	27	(8.32)	27
	Marl, red-brown, sandy	(1.05)	3	(9.45)	3
	Sandstone, pale green, fine-grained	(0.40)	8	(9.85)	8
	Marl, red-brown		8	(9.85)	4
	Sandstone, pale green, fine-grained	(0.25)	10	(10.10)	2
	Marl, red-brown, sandy, occasional thin sandstone bands	(1.78)	10	(11.88)	0
	Sandstone, pale green, fine-grained, argillaceous	(0.23)	9	(12.11)	9
	Marl, red-brown	10	6	50	3
	Sandstone, pale green, fine-grained, pebbly and green mudstone laminae	(3.80)	4	(15.91)	7
	Marl, red-brown, sandy, numerous pale red-brown fine-grained sandstone bands	(0.61)	2	(16.52)	7
	Sandstone, pale green, fine-grained	(0.25)	10	(16.77)	5
	Marl, red-brown: 2" sandstone band at about 57/3; continuing in red-brown marl; 3" sandstone band at 58/10; continuing in red-brown marl	(8.02)	11	(19.80)	4
	Sandstone, pale green, fine-grained	(0.15)	10	(19.95)	2
	Marl, red-brown	(0.23)	9	(20.18)	11
	Sandstone, pale green, fine-grained, laminated in 1st 2"; continuing in marl of 1st 2"			(19.99)	

Sited on 6" Lias: 3000 ft 5.9.63

Page 2 of 4

Name of Shaft or Bore given by Geological Survey:

Deaford Brickworks No.1.

6-inch Map
Registered
No.

SK 40 NE / 24

GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		FT	IN.	FT	IN.
	Brought forward			(15.79)	44 11
	and sandstone; from 67/3 in pale green, fine-grained sandstone with mudstone bands	(1.96)	5	(21.74)	71 4
	Marl, red-brown, sandy, occasional green streaks	6	5	(23.70)	72 9
	Sandstone, pale green, fine-grained, laminated		7	(23.88)	72 4
	Marl, red-brown, sandy; occasional green sandstone patches near base	(1.98)	6	(25.86)	77 10
	Sandstone, pale green, fine-grained	(0.38)	2	(26.24)	78 0
	Marl, red-brown, sandy, siltstones; 2" green, fine-grained sandstone bands at 89/7, 89/10 and 90/10; continuing in red-brown sandy marl with abundant green sandstone patches	(2.08)	6 10	(28.30)	85 10
	Sandstone, pale green, fine-grained, argillaceous; from about 95/6 in pale purple and pale green banded, fine-grained; sandstone	(1.97)	6	(29.36)	88 4
	Marl, red-brown, sandy, occasional green streaks; very sandy red brown marl - about a fine-grained sandstone - from about 104/0	(5.03)	16 6	(34.39)	103 10
	Sandstone, pale green, fine-grained, very hard	(0.51)	8	(34.90)	104 6
	Marl, red-brown, sandy, green streaks			(36.02)	108 2
	Sandstone, pale green, fine-grained, very hard	(0.10)	4	(36.12)	108 6
	Marl, red-brown, sandy, green streaks, occasional 1" sandstone bands; from about 127/6 in red-brown sandy marl with numerous green sandy bands	(2.89)	8 10	(38.81)	117 4
	Sandstone, pale green, laminated mudstone lenses	(0.43)	5	(39.24)	118 9
	Marl, red-brown, sandy, green sandy bands	2.61	0	(39.85)	119 9
	Sandstone, pale green, fine-grained	(0.25)	10	(40.11)	120 7
	Marl, green stained in top 2"; continuing in red-brown sandy marl, green streaks, occasional siltstones	(1.78)	5 10	(41.89)	125 5
	Sandstone, pale green, fine-grained, argillaceous	(0.38)	0	(42.19)	125 5
	Marl, red-brown, with abundant green sandy patches; from 129/4 in red-brown sandy marl, green streaks	(1.29)	4 2	(43.48)	127 7
	Sandstone, pale green, fine-grained, occasional mudstone lenses; passing to at about	(0.39)	2 7	(44.15)	128 2
	Marl, red-brown, sandy, green streaks; green sandy bands for 9" at 142/1; continuing in red-brown sandy marl, green streaks	(1.27)	4 6	(45.62)	132 8
	Sandstone, pale green, fine-grained	(0.15)	6	(45.77)	132 2
	Marl, red-brown, green sandy streaks		6	(46.00)	133 8
	Sandstone, pale green and pale purple, fine-grained	(0.18)	7	(46.18)	133 3
	Marl, red-brown, sandy, green streaks	(0.13)	5	(46.31)	133 8
	Sandstone, pale green, fine-grained, argillaceous	(0.03)	0	(46.53)	134 8
	Marl, red-brown, numerous green sandy bands in top 8"; continuing in red-brown marl, green streaks; 1" pale purple,				

Kemper Marl

Page 374

Name of Shaft or Bore given by Geological Survey:

Desford Brickworks No 1.

6-inch Map
Registered
No.

SK 40 NE / 24

GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		FT	IN.	FT	IN.
	Brought forward			152	8
	fine-grained sandstone band at 155/3; continuing in red-brown sandy marl, occasional thin green sandy bands; for 12" at 163/4 in red-brown, very sandy marl with thin sandstone bands; continuing in red-brown marl, green shale, gypsum veins; thin sandstone bands at 164/6	(41 1/4) 13	7	(50 9/8) 167	3
	Sandstone, pale purple, very hard, mudstone muds and laminae, occasional gypsum veins; passing to a 169/10 pale to medium red-brown marly, very hard, fine-grained sandstone; 2" gypsum band at 174/10 with thin bands above and below; continuing in pale to medium grey red-brown, marly, fine-grained sandstone with several pale green sandstone bands; passing to at about	(4 65) 5 1/2	5	(58 65) 182	6
	Marl, red-brown, gypsum veins	(1 65) 1	5	(57 5/8) 187	11
	Sandstone, pale purple, fine-grained, mudstone flakes; from about 189/10 in pale green, fine-grained sandstone	(0 65) 2	2	(57 5/4) 190	
	Mudstone, light green, sandstone laminae; 1/2" gypsum vein at top	(0 15) 0	6	(58 0 1/2) 190	7
	Marl, red-brown, sandy, siltstone; passing to Sandstone, pale green, fine-grained sandstone with occasional purple fine-grained sandstone bands and thin marl laminae; occasional thin gypsum veins	(0 23) 0	9	(58 3/2) 191	4
	Marl, red-brown, sandy, bands of sandstone laminae, gypsum veins; abundant sandstone laminae for 6" at 198/0	(1 00) 3	7	(59 4/6) 195	1
	Sandstone, pale purple, fine-grained, finely interbedded with red-brown marl and mudstone, gypsum veins	(1 12) 3	9	(60 5/8) 198	9
	Marl, red-brown, sandy, mudstone flakes, gypsum veins	(1 65) 5	5	(62 23) 204	2
	Sandstone, medium green, fine-grained, argillaceous, gypsum crystals	(1 67) 4	10	(63 70) 209	0
	Marl, red-brown, sandy, numerous pale purple fine-grained sandstone bands; from 212/3 in red-brown, very sandy marl with sandstone laminae; passing to at	(0 43) 1	5	(64 14) 210	5
	Sandstone, medium green, fine-grained, argillaceous, gypsum crystals at 214/3; several thin mudstone bands in band 9"	(0 31) 3	0	(65 05) 213	5
	Marl, tot 4" red-brown, sandy; continuing in medium green marl	(0 77) 2	4	(65 76) 215	9
	Sandstone, alternating pale green and pale purple, fine-grained with green and	(0 30) 1	0	(66 57) 216	9

Keeper Ngal

25/02/2012 14:05 4m 14/01/12

Name of Shaft or Bore given by Geological Survey:

Deaford Brickworks No.1

6-inch Map Registered No.

SK 40 NE/24

GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		FT	IN.	FT	IN.
	Brought forward			216	(66.07) 9
	purple mudstone bands; large gypsum crystals at 217/7; dominantly pale purple sandstone from 218/2	(0.45)	2	219	(66.75) 0
	Mud, red-brown, sandy	(0.23)	9	219	(66.98) 9
	Sandstone, pale purple and pale green, with thin mudstone bands	(0.32)	1	220	(67.25) 9
	Mudstone, red-brown, with fine sandstone bands	(0.13)	9	22	(67.51) 6
	Sandstone, hard, pale purple, fine-grained, occasional bands of mud and gypsum	(0.35)	2	224	(68.30) 1
	Mud, red-brown, sandy	(0.10)	4	224	(68.40) 5
	Sandstone, pale purple, fine-grained, thin mud and gypsum bands	(0.20)	8	225	(68.61) 1
	Mud, red-brown, sandy	(0.13)	5	225	(68.93) 6
	Sandstone, pale purple, very hard, well-sorted, very uniform; from 230/3 in purple fine-grained sandstone and mud bands with gypsum	(2.16)	7	232	(70.89) 7
	Mudstone, red-brown	(0.20)	8	233	(71.10) 3
	Sandstone, pale purple, fine-grained, occasional mudstone bands; from about 235/6 in pale purple and pale green, fine-grained sandstone, numerous mud bands; passing to at about			237	(72.29) 2
	Mud, red-brown, sandy			238	(72.62) 3
	Sandstone, pale green and purple, fine-grained, occasional thin mud laminae				
	seen to			240	(73.20) 2
	Base of borehole				

Kempston Mud

pp
MA Sumbler
1.3.77

2590203/2 1005 4m 11/01/01



GEOLOGICAL SURVEY OF GREAT BRITAIN

RECORD OF SHAFT OR BORE FOR MINERALS

Name of Shaft or Bore given by Geological Survey:

DESFORD BRICKWORKS NO.1 (1963) B.H. SN9033

Name and Number given by owner:

as above

For whom made

N.C.B.

Town or Village

Bagworth

County

Leicester

Exact site 1745 yd at 205° from the west end
of St Peter's Church, Thornton.

Attach a tracing from
a map, or a sketch-
map, if possible.

Purpose for which made to prove quality & thickness of Keuper Marl

Ground Level at shaft
bore relative to O.D. +458.69 ft

If not ground level give O.D. of beginning of shaft
bore -

Made by Torahy Ltd

Date of sinking May 1963

Information from examination of core

Date received

Examined by A.D. M. Adam for Geological Survey

155/317
6-inch Map Registered
SK40/67
SK40NE/24
Nat. Grid Reference
E.446156 N.306202
1" N.S. Map No. 155
1" O.S. Map No.
Confidential or not

SPECIMEN NUMBERS AND ADDITIONAL NOTES

Leic 30NW/W

(For Survey use only) GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		FT	IN.	FT	IN.
	Coring commenced at 11/0; cores only fragmentary to about 50/0				
base of drift →	Boulder Clay, red-brown clay with pebbles of chert, flint, quartzite, mudstone, etc	27	6	27	6
	Marl, red-brown, sandy	3	6	31	0
	Sandstone, pale green, fine-grained	8	6	31	8
	Marl, red-brown	8	6	32	4
	Sandstone, pale green, fine-grained	10	6	33	2
	Marl, red-brown, sandy, occasional thin sandstone bands	5	10	39	0
	Sandstone, pale-green, fine-grained, argillaceous	9	6	39	9
Keuper Marl	Marl, red-brown	10	6	50	3
	Sandstone, pale-green, fine-grained, purple and green mudstone laminae	4	6	50	7
	Marl, red-brown, sandy, numerous pale red-brown fine-grained sandstone bands	2	0	52	7
	Sandstone, pale green, fine-grained	10	6	53	5
	Marl, red-brown. 2" sandstone band at about 57/3; continuing in red-brown marl; 3" sandstone band at 58/10; continuing in red-brown marl	9	11	63	4
	Sandstone, pale green, fine-grained	10	6	64	2
	Marl, red-brown	9	6	64	11
	Sandstone, pale green, fine-grained, laminated in top 2"; continuing in mixture of marl				

Seen by O on 6' Leic 30NW/W 8.9.63.

2098243/1 2305 4m 11/61 XL



Name of Shaft or Bore given by Geological Survey:

Desford Brickworks No.1.

6-inch Map
Registered
No.

SK 40 NE / 24

155 SK 40 / 67
317

GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		FT	IN.	FT	IN.
	brought forward			64	11
	and sandstone; from 69/3 in pale green, fine-grained sandstone with mudstone bands	6	5	71	4
	Marl, red-brown, sandy, occasional green specks	6	5	77	9
	Sandstone, pale green, fine-grained, laminated			78	4
	Marl, red-brown, sandy, occasional green sandstone patches near base	6	6	84	10
	Sandstone, pale green, fine-grained	1	2	86	0
	Marl, red-brown, sandy, alchenaides; 2" green, fine-grained sandstone bands at 89/7, 89/10 and 90/10; continuing in red-brown sandy marl with abundant green sandstone patches	6	10	92	10
	Sandstone, pale green, fine-grained, argillaceous; from about 95/6 in pale purple and pale green banded, fine-grained, sandstone	3	6	96	4
	Marl, red-brown, sandy, occasional green specks; very sandy red brown marl; - almost a fine-grained sandstone - from about 104/0	16	6	112	10
	Sandstone, pale green, fine-grained, very hard	1	8	114	6
	Marl, red-brown, sandy, green specks			118	2
	Sandstone, pale green, fine-grained, very hard		4	118	6
Keuper Marl	Marl, red-brown, sandy, green specks, occasional 1" sandstone bands; from about 123/6 in red-brown sandy marl with numerous green sandy bands	8	10	127	4
	Sandstone, pale green, laminated mudstone laminar	1	5	128	9
	Marl, red-brown, sandy, green sandy bands	2	0	130	9
	Sandstone, pale green, fine-grained		10	131	7
	Marl, green stained in top 2"; continuing in red-brown sandy marl, green specks, occasional alchenaides	5	10	137	5
	Sandstone, pale green, fine-grained, argillaceous	1	0	138	5
	Marl, red-brown, with abundant green sandy patches; from 139/4 in red-brown sandy marl, green specks	4	2	142	7
	Sandstone, pale green, fine-grained, occasional mudstone laminar; passing to at about	2	7	145	2
	Marl, red-brown, sandy, green specks; green sandy bands for 9" at 148/1; continuing in red-brown sandy marl, green specks	4	6	149	8
	Sandstone, pale green, fine-grained		6	150	2
	Marl, red-brown, green sandy winks		6	150	8
	Sandstone, pale green and pale purple, fine-grained		7	151	3
	Marl, red-brown, sandy, green specks		5	151	8
	Sandstone, pale green, fine-grained, argillaceous	1	0	152	8
	Marl, red-brown, numerous green sandy bands in top 8"; continuing in red-brown marl, green specks; 1" pale purple,				

JS98293/2 RS85 4m 11/81 XL



Name of Shaft or Bore given by Geological Survey:

Desford Brickworks No 1.

6-inch Map
Registered
No.

SK 40 NE/24

155 SK 40/67
317

GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		FT	IN.	FT	IN.
	Brought forward			152	8
	fine-grained sandstone band at 155/3, continuing in red-brown sandy marl, occasional thin green sandy bands; for 12" at 163/4 in red-brown, very sandy marl with thin sandstone bands; continuing in red-brown marl, green streaks, gypsum veins; thin sandstone bands at 164/6	13	7	167	3
	Sandstone, pale purple, very hard, mudstone wicks and laminae, occasional gypsum veins; passing to c 169/10 pale to medium red-brown marl, very hard, fine-grained sandstone; 2" gypsum band at 174/10 with thin bands above and below; continuing in pale to medium grey red-brown, marly, fine-grained sandstone with several pale green sandstone bands; passing to at about	15	3	182	6
	Marl, red-brown, gypsum veins	5	5	187	11
	Sandstone, pale purple, fine-grained, mudstone flakes; from about 189/10 in pale green, fine-grained sandstone	2	2	190	1
	Mudstone, light green, sandstone laminae; 1/2" gypsum vein at top		6	190	7
	Marl, red-brown, sandy, siltstone; passing to at		9	191	4
	Sandstone, pale green, fine-grained sandstone with occasional purple fine-grained sandstone bands and thin marl laminae; occasional thin gypsum veins	3	7	195	1
	Marl, red-brown, sandy, bands of sandstone laminae, gypsum veins; abundant sandstone laminae for 6" at 198/0	3	8	198	9
	Sandstone, pale purple, fine-grained, finely interbedded with red-brown marl and mudstone, gypsum veins	5	5	204	2
	Marl, red-brown, sandy, mudstone flakes, gypsum veins	4	10	209	0
	Sandstone, medium green, fine-grained, argillaceous, gypsum crystals	1	5	210	5
	Marl, red-brown, sandy, numerous pale purple fine-grained sandstone bands; from 212/3 in red-brown, very sandy marl with sandstone laminae; passing to at	3	0	213	5
	Sandstone, medium green, fine-grained, argillaceous; gypsum crystals at 214/3; several thin mudstone bands in basal 9"	2	4	215	9
	Marl, top 4" red-brown, sandy; continuing in medium green marl	1	0	216	9
	Sandstone, alternating pale green and pale purple, fine-grained with green and				

Keuper Mar

JS98293/2 PS85 4m 11/61 XL

Name of Shaft or Bore given by Geological Survey:

Desford Brickworks No 1

**6-inch Map
Registered
No.**

SK 40 NE/24

155 SK40/67
317

GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH		
		Ft	in.	Ft	in.	
Keuper ⁴ Man	Brought forward			216	9	
	purple mudstone bands; large gypsum crystals at 217/7; dominantly pale purple sandstone from 218/2	2	3	219	0	
	Marl, red-brown, sandy		9	219	9	
	Sandstone, pale purple and pale green, with thin mudstone bands	1	0	220	9	
	Mudstone, red-brown, with fine sandstone bands		9	221	6	
	Sandstone, hard, pale purple, fine-grained, occasional bands of marl and gypsum	2	7	224	1	
	Marl, red-brown, sandy		4	224	5	
	Sandstone, pale purple, fine-grained, thin marl and gypsum bands		8	225	1	
	Marl, red-brown, sandy		5	225	6	
	Sandstone, pale purple, very hard, well-cemented, very uniform; from 230/3 in purple fine-grained sandstone and marl bands with gypsum	7	1	232	7	
	Mudstone, red-brown		8	233	3	
	Sandstone, pale purple, fine-grained, occasional mudstone bands; from about 235/6 in pale purple and pale green, fine-grained sandstone, numerous marl bands; passing to at about			237	2	
	Marl, red-brown, sandy			238	3	
	Sandstone, pale green and purple, fine-grained, occasional thin marl laminae			240	2	
		seen to				

DS98293/2 PS85 4m 11/61XL

GEOLOGICAL SURVEY OF GREAT BRITAIN

RECORD OF SHAFT OR BORE FOR MINERALS

Name of Shaft or Bore given by Geological Survey:

DESFORD BRICKWORKS No. 5 (1963) B.H. SN 9037

Name and Number given by owner:

as above

For whom made

N.C.B.

Town or Village

Thurton

County

Leicestershire

Exact site

1902 yd at 189° from the west end of St. Peter's Church, Thurton [Map attached to No. 1 B.H. Log]

Attach a tracing from a map, or a sketch-map, if possible.

Purpose for which made

to prove quality and thickness of Kuper Marl

Ground Level at shaft bore

relative to O.D. +415.06 ft

If not ground level give O.D. of beginning of shaft bore

Made by

Forsyth Ltd

Date of sinking

June 1963

Information from

examination of cores

Date received

Examined by

B.A. Hains, Geological Survey

Page 1873

(For Survey use only)

6-inch Map Registered No.

155

SK 40 NE/26

Nat. Grid Reference

E 446560 N. 305932

1" N.S. Map No.

155

1" O.S. Map No.

Confidential or not

SPECIMEN NUMBERS AND ADDITIONAL NOTES

(For Survey use only) GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		FT	IN.	FT	IN.
Glacial Drift	Coring started at 25ft, continuous from test depth			25 (7 1/2)	0
	Sand, pale reddish-brown, medium-grained; subangular to subrounded grains, almost unconsolidated	9 (2 7/8)	0	36 (10 3/4)	0
	Sand, fine to medium-grained, pale reddish brown, argillaceous; local pebbly beds (pebbles of quartz, quartzite, sandstone etc.)	2 (0 7/8)	6	38 (11 7/8)	6
	Sand, fine to medium-grained, pale reddish brown; small coal fragments in basal bin	10 (3 0)	0	39 (12 0)	6
	Brackish Clay; reddish brown, very sandy clay, mainly derived from Kuper Marl. Abundant pebbles up to 3-4 inches in diameter - green and reddish-brown sandstone, quartz, mudstone, marl etc.	57 (17 1/8)	4	96 (29 1/2)	10
Kuper Marl	Missing - driller records sand washed away	3 (0 9/10)	0	99 (30 4/5)	10
	Sand, pale reddish brown, medium to coarse-grained; grains subangular to rounded, almost unconsolidated	4 (1 1/4)	2	104 (31 7/8)	0
	Sandstone, pale reddish brown, fine-grained; which marl pebbles at base	10 (3 0)	6	105 (32 1/8)	6
	Sandstone, very coarse-grained; rounded grains, mainly of quartz, some of marl; occasional small marl pebbles, reddish brown marl cement	1 (0 1/8)	11	107 (32 7/8)	5
	Shut in 6" Pipe. In work - 8 G.L.s				

Name of Shaft or Bore given by Geological Survey:

DESFORD ARICKWORKS No. 5 (1963) B.M.

6-inch Map
Registered
No.

SK 40 NE

Page 26

2

26

GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	Thickness		Depth	
		ft	in	ft	in
Kemper Marl	Brought forward			107	5
	Siltstone, greenish, very finely micaceous; local reddish blotches	(0.48)	7	107	33.70
	Marl, reddish brown with occasional green patches; finely micaceous and very silty; 2 inch band of fine grey sandstone at 112/11	(1.27)	4	113	2
	Sandstone, pale pinkish grey; very hard and strongly cemented; small carbonaceous fragments	(0.20)	8	113	10
	Marl, reddish brown, finely micaceous, very silty; 2 inch band of fine grey sandstone at 116/5; 2 inch band of coarse grey sandstone, hard and strongly cemented, at 117/7; 2 inch band of fine grey sandstone at 118/2; high content of fine-grained sand from c. 122 ft bedding horizontal	(6.10)	20	133	10
	Marl, blotched reddish brown and greenish grey, very sandy	(0.28)	11	134	9
	Sandstone, grey, very fine-grained; frequent mud laminated; 2 inch mud band at 135/9, 1 inch gypsum band below	(0.33)	1	135	10
	Marl, mainly reddish brown with some greenish grey blotches; very sandy; thin gypsum veins at 137 ft and 137/1; frequent false-bedded sandy laminae; gypsum veins for thin at 141 ft 6 in [2 ft 6 in missing between 141/8 and 148/8]; gypsum bands for 2 inches at 148/3	(11.32)	14	150	0
	Marl, reddish brown, finely micaceous;	(0.18)	7	150	7
	Marl, reddish brown with some pinkish grey bands and blotches; very sandy; frequent sandy bands and laminae, often false-bedded; green in basal 3 inches	(1.63)	5	155	11
	Sandstone, greenish grey; fine-grained and very hard, finely micaceous	(0.20)	8	156	7
	Marl, pinkish grey, some sandy laminae; 1 inch fine-grained greyish green sandstone at 157/11	(0.51)	1	158	3
	Sandstone, greyish green, fine-grained, very hard;	(0.15)	6	158	9
	Marl, reddish brown; frequent very irregular sandy lenses and laminae; passing to	(0.23)	9	159	6
	Sandstone, blotched greyish green and reddish brown, fine-grained; very sandy, with mud layers; occasional gypsum veins in top 6 in, frequent and irregular below	(0.91)	0	162	6
	Marl, reddish brown, very sandy and finely micaceous; steeply inclined gypsum veins for 6 inches at 163/10, less sandy below; [only 6 in. mud and gypsum visible recorded between 164/9 and 173/3. Driller suspects				

Name of Shaft or Bore given by Geological Survey:

DESFORD BRICKWORKS N.5 (1963) RM

6-inch Map
Registered
No.

SK 40 NE

26

Page 543

GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		FT	IN.	FT	IN.
Kempers Marl	Brought forward			162	6
	possible cavity] Greenish grey and very	2	58	(53.53)	
	Sandy from 173/9 to base, passing to	11	9	(53.11)	3
	Sandstone, very fine-grained, greenish grey,				
	gypsum veins for 3 in at 174/11; occasional				
	marl laminae from 175/2, passing to	2	57	(53.57)	10
	Marl, reddish brown, very sandy, occasional				
	small gypsum nodules; mainly greyish				
	green for 1 ft 11 in at 180/9, with many				
	sandy bands and laminae; finer grained				
	below to 182 ft; frequent sandy bands				
	and laminae below, often fairly bedded;				
	thin fine sandstone band at 187/2	3	12	189	4
	Sandstone, pale reddish brown, fine-grained,	1	52	192	8
	micaceous; some marly laminae				
	Marl, reddish brown with some green layers;				
	fine grained; green in basal 2 inches;				
	bedding almost horizontal seen to	1	4	194	0
	Bottom of borehole			194	0



GEOLOGICAL SURVEY OF GREAT BRITAIN

RECORD OF SHAFT OR BORE FOR MINERALS

Name of Shaft or Bore given by Geological Survey:

DESFORD BRICKWORKS No. 5 (1963) B.H. SN 9037

Name and Number given by owner:

as above

For whom made

N.C.B.

Town or Village

Thornorton

County

Leicestershire

Exact site

190.5 yds at 189° from the west end of St. Peter's Church, Thornorton [Map attached to No. 1 BH 64]

Attach a tracing from a map, or a sketch-map, if possible.

Purpose for which made

To prove quality and thickness of Keuper Marl

Ground Level at shaft bore

relative to O.D. +415.06 ft

If not ground level give O.D. of beginning of shaft bore

Made by

Forakky Ltd.

Date of sinking

June 1963

Information from

examination of cores

Date received

Examined by

B.A. Mains, Geological Survey

Nat. Grid Reference

E. 446560 N. 305932

1" N.S. Map No.

155

1" O.S. Map No.

Confidential or not

SPECIMEN NUMBERS AND ADDITIONAL NOTES

(For Survey use only) GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		FT	IN.	FT	IN.
Glacial Drift	Coring started at 25ft, continuous from that depth			25	0
	Sand, pale reddish-brown, medium-grained; subangular to subrounded grains, almost unconsolidated	9	0	36	0
	Sand, fine to medium-grained, pale reddish brown, argillaceous; local pebbly beds (pebbles of quartz, quartzite, sandstone etc.)	c. 2	6	c. 38	6
	Sand, fine to medium-grained, pale reddish brown; small coal fragments in basal 6in.	c. 1	0	39	6
	Brackish Clay; reddish brown, very sandy clay, mainly derived from Keuper Marl. Abundant pebbles up to 3-4 inches in diameter - green and reddish-brown sandstone, quartz, mudstone, marl etc.	57	4	96	10
Keuper Marl	Missing - driller records sand washed away	3	0	99	10
	Sand, pale reddish brown, medium to coarse-grained; grains subrounded to rounded, almost unconsolidated	4	2	104	0
	Sandstone, pale reddish brown, fine-grained; 6 inch marl pebble at base	1	6	105	6
	Sandstone, very coarse-grained; rounded grains, mainly of quartz, some of marl; occasional small marl pebbles; reddish brown marl cement	1	11	107	5
	Sited by O on 6" Lewis: to NW/W. 8.9.63				

Name of Shaft or Bore given by Geological Survey:

DESERD BRICKWORKS No.5 (1963) B.H.

6-inch Map
Registered
No.

155 SK40/68
319

GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		Ft	in.	Ft	in.
Kemper Marl	Brought forward			107	5
	Siltstone, greenish, very finely micaceous; local reddish blotches	1	7	109	0
	Marl, reddish brown with occasional green patches; finely micaceous and very silty; 2 inch band of fine grey sandstone at 112/11	4	2	113	2
	Sandstone, pale pinkish grey; very hard and strongly cemented; small carbonaceous fragments		8	113	10
	Marl, reddish brown, finely micaceous, very silty; 2 inch band of fine grey sandstone at 116/5; 2 inch band of coarse grey sandstone, hard and strongly cemented, at 117/7; 2 inch band of fine grey sandstone at 118/2; high content of fine-grained sand from c. 122ft bedding horizontal	20	0	133	10
	Marl, blotched reddish brown and greenish grey, very sandy		11	134	9
	Sandstone, grey, very fine-grained; frequent marl laminae; 2 inch marl band at 135/9, 1 inch gypsum band below	1	1	135	10
	Marl, mainly reddish brown with some greenish grey blotches; very sandy; thin gypsum veins at 137ft and 137/1; frequent false-bedded sandy laminae; gypsum veins for thin at 141ft 6in [2ft 6in missing between 141/8 and 148/8]; gypsum bands for 2 inches at 148/3	144	2	150	0
	Marl, reddish brown, finely micaceous;		7	150	7
	Marl, reddish brown with some pinkish grey bands and blotches; very sandy; frequent sandy bands and laminae, often false-bedded; green in base 3 inches	5	4	155	11
	Sandstone, greenish grey; fine-grained and very hard, finely micaceous		8	156	7
	Marl, pinkish grey, some sandy laminae; 1 inch fine-grained greyish green sandstone at 157/11	1	8	158	3
	Sandstone, greyish green, fine-grained, very hard;		6	158	9
	Marl, reddish brown; frequent very irregular sandy lenses and laminae; passing to		9	159	6
	Sandstone, blotched greyish green and reddish brown, fine-grained; very waxy, with marl layers; occasional gypsum veins in top 6in, frequent and irregular below	3	0	162	6
	Marl, reddish brown, very sandy and finely micaceous; steeply inclined gypsum veins for 6 inches at 163/10, less sandy below; 1 only 6in marl and gypsum rubble recorded between 164/9 and 173/3. Driller suspects				



Name of Shaft or Bore given by Geological Survey:

DESFORD BRICKWORKS N.G.S (1963) BM

6-inch Map
Registered
No.

155 SK 40/68
319

GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		FT	in.	FT	in.
Keuper Marl ✓	Brought forward			162	6
	possible cavity] Greenish grey and very sandy from 173/9 to base passing to	c. 11	9	c. 174	3
	Sandstone, very fine-grained, greenish grey; gypsum veins for 3in at 174/11; occasional				
	marl laminae from 175/2 passing to	c. 2	7	c. 176	10
	Marl, reddish brown, very sandy; occasional small gypsum nodules; mainly greyish green for 1ft 1in at 180/9, with many sandy bands and laminae; finer grained below to 182 ft; frequent sandy bands and laminae below, often false bedded; thin fine sandstone band at 187 1/2	c. 12	6	189	4
	Sandstone, pale reddish brown, fine-grained, micaceous; some marly laminae	3	4	192	8
P. P. m G. Sumbler 1/3/77.	Marl, reddish brown with some green layers; fine-grained; green in basal 2 inches; bedding almost horizontal seen to	1	4	194	0
	Bottom of borehole			194	0

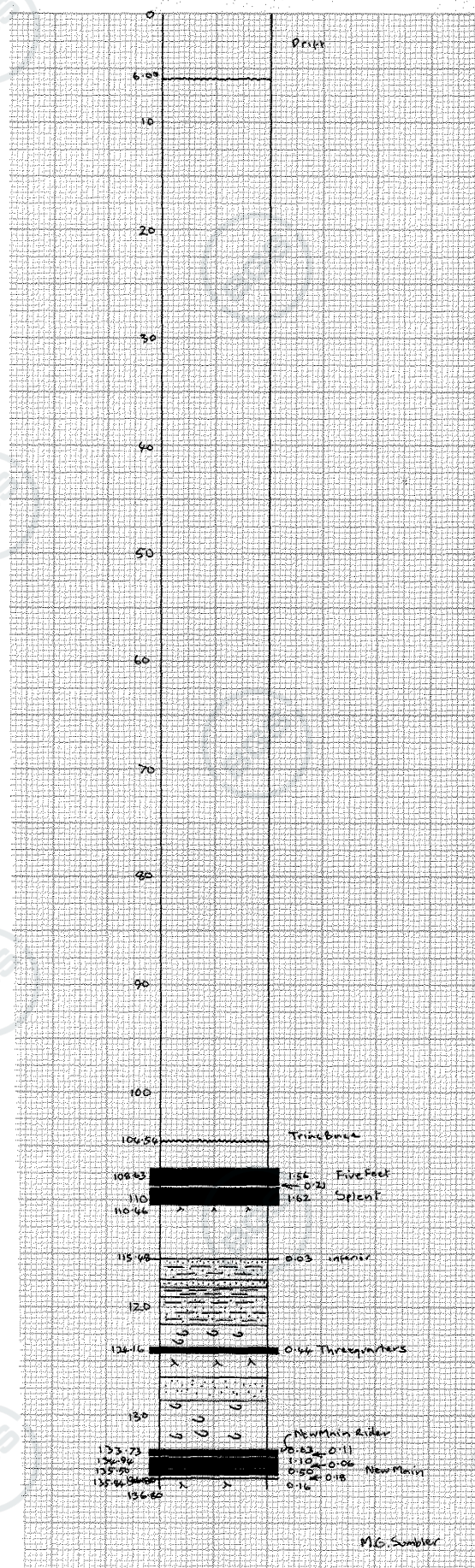
DESFORD BATHS (1975)

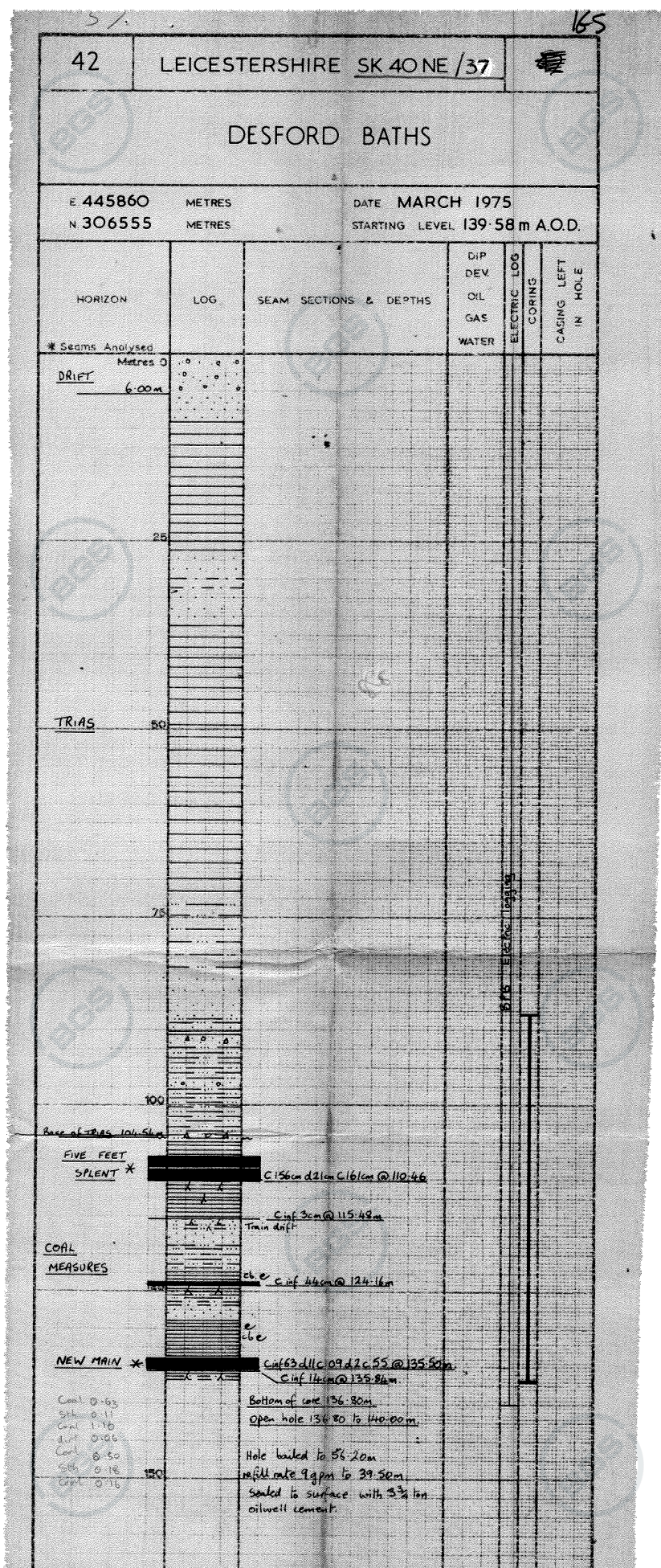
SL +139.58m

1cm : 5m

SK40NE/37

SK4586 0656





Contact BGS: ngdc@bgs.ac.uk

FORM P 71
SERIES 880

Section of Desford Baths B.H.

6-INCH MAP	B/H
SK 40 NE/37	
SK 40 NE	44

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m	cm	m	cm
	Brought forward			104	54
	Mudstone, reddish brown and ochreous, listric, passage @	4	46	105	00
COAL MEASURES	Mudstone, pale grey with occasional ochreous staining. Few sub vertical joints. Weak.	1	90	106	90
	Mudstone, darkish, poorly preserved mussels.		17	107	07
FIVE FEET	COAL solid 93 cm	1	56	108	63
	broken 20 cm	0	21	108	84
	solid 43				
	DIRT Seatearth mudstone darkish 21cm	1	62		
SPLINT	COAL cylinders 169 cm	3	389	110	46
	Seatearth mudstone, soft listric, very weak		31	110	77
	Seatearth siltstone with irregular sandstone laminae		10	110	87
	Mudstone, weak listric, roots @ top, few ironstone nodules, "roughings"	1	98	112	85
	111.60 to 111.95				
	Mudstone, few laminae, roots in top 0.30m. Occasional thin ironstone bands, listric.	2	05	114	90
	Mudstone, silty, few irregular thin sandstone laminae, worn burrows.	0	44	115	34
	Mudstone, carbonaceous.	0	11	115	45
	COAL inferior 3cm.	0	03	115	48
	Seatearth sandstone	0	17	115	65
	Siltstone and sandstone interlaminated, roots in top 30cm. Thin drift.	0	90	116	55
	Siltstone, sandstone laminae, few worn burrows.	0	87	117	42
	Sandstone, sub vertical joints	0	68	118	10
	Siltstone, few sandstone laminae, small scale thin drift, overturned layer 118.48 to 118.58	0	90	119	00
	Siltstone and sandstone interlaminated, few plant fragments, faultlets, sub vertical joints	2	62	121	62
	Mudstone, carbonaceous, few ferruginous laminae, abundant ferruginous mussels.	1	50	123	12
	Mudstone, laminated, ironstone nodules, few mussels, highly listric in basal 10cm.	0	54	123	66
	Mudstone, highly carbonaceous, mussels	0	06	123	72
Threagarters	COAL, appears inferior. 44cm	0	44	124	16
	Seatearth, mudstone, darkish, few coal streaks	0	66	124	82
	Seatearth siltstone, few irregular sandstone laminae, abundant ironstone nodules.	1	18	126	00
	Mudstone, silty, laminated, thin ironstone bands.	0	48	126	48
	Sandstone, few siltstone laminae to 127.50 then massive below.	1	76	128	24
	Siltstone, irregular sandstone laminae, slumped layers.	0	61	128	85
	Mudstone, few laminae, rare mussels.	0	63	129	48
	Mudstone, carbonaceous, abundant ferruginous mussels.	2	84	132	32
	Mudstone darkish, few listric.				
	ironstone band 132.56 to 132.67m weak and listric in basal 20cm.	0	78	133	10

FORM P 71
SERIES 680

Section of Desford Bath's BH.

6-INCH MAP	B/H
SK 40 NE 137	
SK 40 NE	42.

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	brought forward.			133	10
NEW MAIN	CoAL appears dirty in part pyrite @ 133.57 and 133.68		63	133	78
	Seatearth mudstone, soft		11	133	84
	CoAL possibly inferior 134.11 to 134.24, sporadic thin pyrite veins.	1	10	134	94
	Dirt, highly carbonaceous		6	125	00
	CoAL abundant pyrite veins in basal 30cm.		50	135	50
	Seatearth mudstone, coal streaks.	0	18	135	68
	CoAL appears inferior	0	16	135	84
	Seatearth mudstone, soft	0	16	136	00
	Seatearth mudstone silty, rare thin sandstone laminae, sporadic ironstone nodules.	0	80	136	80
	Open hole 136.80m to 140.00m.				
	Hole bailed to 56.20m Refilled to 39.50m @ about 9 gals/min. then to 30.00m @ about 5 gals/min.				
	Borehole sealed with 3ton 15cwt oilwell cement.				

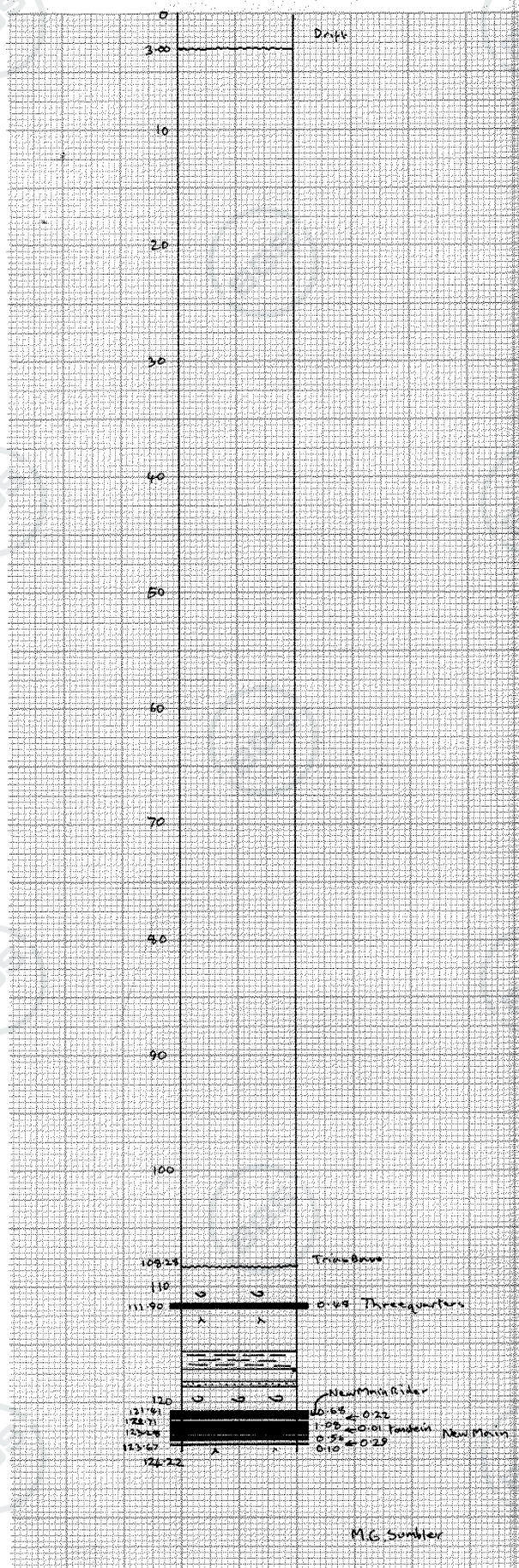
LITTLE FOX (DEEPOND) (1975)

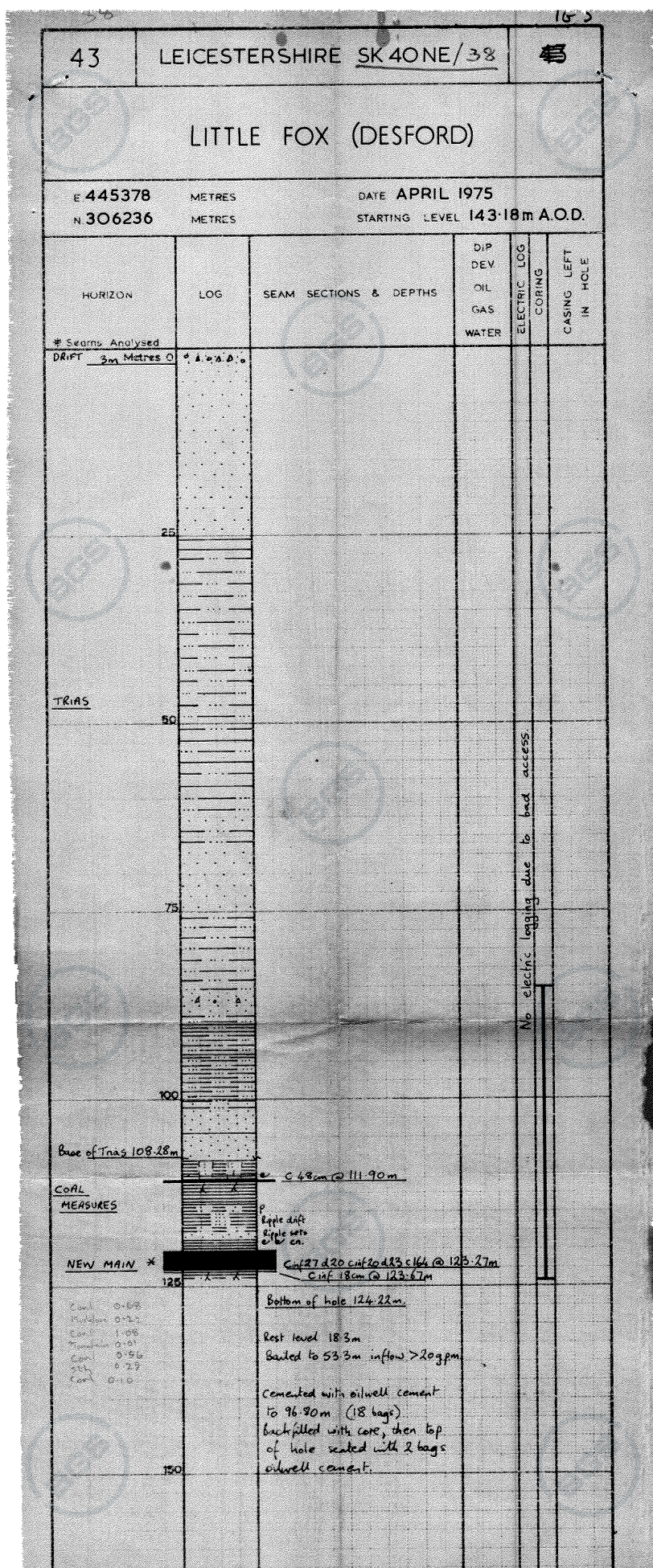
SLT 143-18

1 cm : 5 m

SK40NE/38

SK4538 0624





METRIC SECTION

on of LITTLE FOX (DES FORD)

rose To prove base of Trias and New Main Seam.

et Site **E 445378 m**

N 306236

el at which bore commenced relative to O.D. 143.18 AOD

e of sinking or boring April 1975

ker or borer Foraky for NCB S. Midlands Area.

165

5 INCH MAP

R/K REGD No

SK 40 NE/38

(County, Sheet and Q. r.)

SK 40 NE 38

(Nat. Grid, Sheet & Qtr.)

Attach tracing from a map or sketch map if possible

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m	cm	m	cm
	Open hole - Samples examined surface to 85 m.			0	00
	Gravel.			3	00
	Sandstone, grey green with red brown mudstone	21	00	24	00
	Mudstone, brown,	3	00	27	00
	Siltstone, red brown and sandstone grey green.	24	00	51	00
	Mudstone and siltstone red brown.	9	00	60	00
	Siltstone red brown and sandstone grey green	9	00	69	00
	Sandstone grey green	6	00	75	00
	siltstone red brown with few green sandstone fragments.	9	00	84	00
	Cores begin 85.50m.			86	50
	Sandstone, grey green, thin mudstone bands 85.93 to 86.00 : 86.45 to 86.50 coarse grained, gritty.				
	86.00 to 87.05 Breccia conglomerate of mainly green mudstone fragments				
	87.20 to 87.35 Very well cemented				
	87.45 to 88.50	2	00	88	50
	Siltstone, red brown and green mottled, sporadic gypsum fragments,	1	50	90	00
	Mudstone, dark red brown		35	90	35
	Siltstone, green grey and red brown,		50	90	85
	Mudstone purple brown		45	91	30
	Siltstone, red brown with greenish patches, sandstone layer with siltstone pebbles				
	92.25 to 92.30	2	49	93	79
	Sandstone, pale grey, well cemented erosive.		16	93	95
	Mudstone, purple brown, fine green patches		35	94	30
	Sandstone, pale grey, well cemented.		20	94	50
	Siltstone, brown, coarse grained, few greenish patches, occasional				
		5	85	100	35

FORM P. 71
SERIES 680

Section of LITTLE FOX (DESFORD)

5-INCH MAP

S/H

SK 40 NE/38

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m	cm	m	cm
	brought forward.			100	35
	Sandstone, pale grey, coarse grained with pebbles 100.50 to base.	51		100	86
	Siltstone, red brown, few gypsum fragments,	64		101	50
	Sandstone, grey green,	40		101	90
	Sandstone, red brown, few green fragments,	2	65	104	55
	Mudstone, red brown	30		104	85
	Sandstone, grey green, brownish patches, coarse grained with pebbles				
Base of Tnars 108.28m	breccia of red brown and ochreous mudstone fragments 108.20 to 108.28	3	43	108	28
	Mudstone, ochreous and red brown, lentic	37		108	65
	Mudstone, silty, few thin sandy laminae, red brown and ochreous patches;	1	77	110	42
	a few plant fragments in basal 5cm.				
	Mudstone, dark grey, worm tracks;	13		110	55
	Mudstone, carbonaceous, occasional red staining, plant stems, ferruginous mussels from 110.68 to 110.86	31		110	86
	Mudstone, grey, carbonaceous in basal 5cm	56		111	42
Threequarters	COAL (broken in top 5cm.)	48		111	90
	Seatearth mudstone, grey, highly lentic to 112.50	1	50	113	40
	ironstone nodules from 112.50 to 113.40	90		114	30
	Mudstone, grey, plant stems common,				
	Mudstone, grey, silty, thin sandstone laminae, plant stems, passing into a	1	22	115	52
	Siltstone, grey, irregular sandstone laminae; ripple drift, worm burrows,	1	68	117	20
See to 117.99	Mudstone, grey, silty, thin sandstone laminae	98		118	18
	Sandstone, few siltstone laminae, ripple sets, highly erosive base	42		118	60
	Mudstone, dark grey, worm tracks	45		119	05
	Mudstone, carbonaceous, conchoidal, abundant mussels, ironstone band 5cm @ 119.60	1	15	120	20
	Mudstone, grey, few ironstone nodules, worm tracks,	53		120	73
NEW MAIN.	COAL solid, appears inferior 121.04 to 121.10	68		121	41
	MUDSTONE dark grey	7			
	MUDSTONE pale grey	15		121	63
	COAL cylinders, quite common,	1	08	122	71
	DIRT ? ironstone	1		122	72
	COAL cylinders	56		123	28
	Seatearth mudstone, coaly streaks	29		123	57
	COAL	10		123	67
	Seatearth mudstone, grey, soft	18		123	85
	Seatearth mudstone silty,	37		124	22
	Bottom of hole : 124.22m.				
	Bailing test.				
	Rest level 18.3m 18.3m.				
	Bailed to 18.3m 53.5m inflow 20 gpm.				
	Hole cemented with 18 bags oilwell cement to 96.80m then backfilled with core.				
	Top of hole sealed with 2 bags oilwell cement.				



NGRC
BOREHOLE RECORDS
ADJUSTMENT FORM



British
Geological
Survey

QUARTER SHEET SK40NE

BH REGISTRATION NUMBER S7-67

~~NUMBER NOT USED~~

/

~~! LOG MISSING !~~

(Delete as appropriate)

RECORDS ENTERED & HSID BY WALLINGFORD

1" 156
6" 30 2 1/2 ft.

SK40/25
155
10

No. 5. Commenced by Dept. Allen, F.

SECTION OF BOREHOLE AT HALIFAX FARM
NEWBOLD VERDON.
June 15th, 1915.

Sk 4582 0568 1400 ft D.D.

	Ft.	ins.	Ft.	ins.
Soil and gravel.	2	0	2	0
Red clay and boulders.	12	0	14	0
Gravel.	2	0	16	0
Red clay and stones.	10	0	26	0
Red and grey marl.	24	0	50	0
Soft red marl.	11	0	61	0
Red marl.	2	0	63	0
Grey marl.	2	0	65	0
Red and grey marl.	13	8	78	8
Soft red marl.	8	0	86	8
Grey strong marl.	2	0	88	8
Red marl.	7	4	96	0
Grey marl.	2	0	98	0
Red marl.	4	6	102	6
Hard grey marl.	2	0	104	6
Soft red marl.	4	2	108	8
Grey marl.	4	0	112	8
Red marl.	2	0	114	8
Grey sandy marl.	2	4	117	0
Strong grey marl.	3	0	120	0
Strong red and grey sandy marl with gypsum.	7	7	127	7
Gypsum.		1	127	8
Red and grey marl and gypsum.	5	7	132	9
Gypsum.		4	133	1
Strong red and grey marl.	1	0	134	1
Red marl.	3	0	137	1
Red and grey marl with gypsum bands.	7	1	144	2
Dark red and grey marl with gypsum bands.	3	3	147	5
Strong grey marl.		9	158	2
Red marl and gypsum bands.	6	0	154	2
Soft red marl with gypsum bands.	6	0	160	2
Red and grey ditto	4	0	164	2
Red sandy marl and gypsum.	3	8	167	10
Grey marl and gypsum.	3	0	170	10
Grey sandy marl and gypsum.	2	6	173	4
Red sandy marl.	1	6	174	10
Red and grey marl.	4	0	178	10
Red marl.	1	5	180	3
Red sandy marl and gypsum.	7	0	187	3
Grey ditto	3	1	190	4
Red sandy marl and sandstone.	1	4	191	8
Grey sandy marl.	2	6	194	2
Red sandy marl and gypsum.	6	3	200	5
Red sandy marl and sandstone with gypsum.	8	1	208	6
Red sandstone.		8	209	2
Grey sandstone.		4	209	6
Red marl.	2	0	211	6
Red and grey sandstone.	2	0	213	6
Red marl.	2	0	215	6
Grey sandy marl.	1	6	217	0
Red sandy marl.	1	6	218	6
ditto and sandstone.	2	6	221	0
Grey sandy marl and sandstone.	3	6	224	6
Red and grey marl.	2	0	226	6
Red sandstone.		8	227	2
Red sandy marl.	1	7	228	9
ditto and gypsum.	2	0	230	9
Red and grey marl.	1	4	231	9
Red and grey sandy marl and sandstone bands.	7	0	238	9
Red and grey marl.	1	0	239	9
Soft red and grey sandstone.	5	0	244	9
Grey and red sandstone.	4	0	248	9
Red and grey marl.	2	0	250	9
Coarse red and grey sandstone.	6	6	257	3
Red and brown sandstone.	1	0	258	3
Red and grey marl.	1	0	259	3
Coarse red sandstone.	1	0	260	3



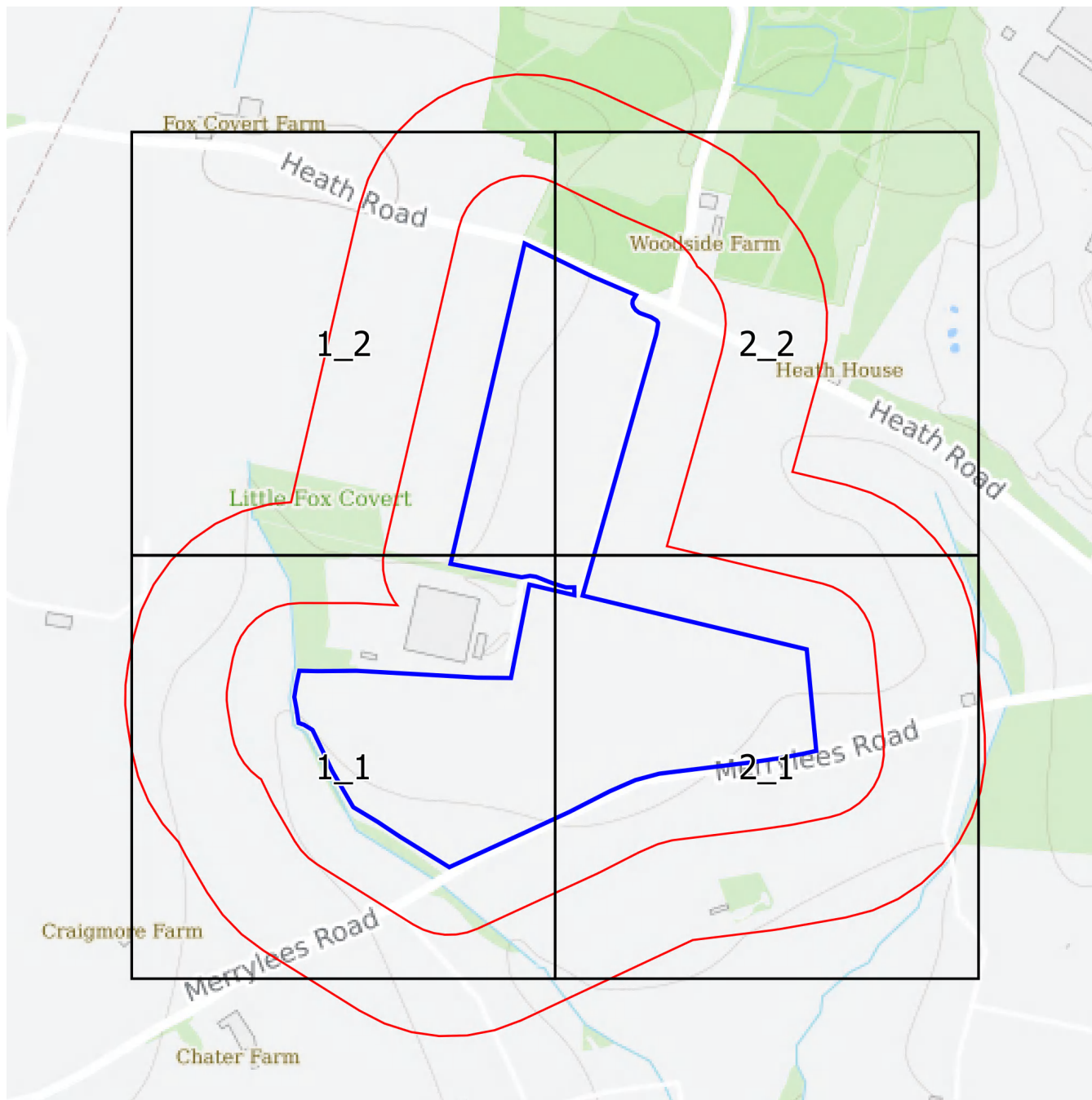
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21 JUL 1999

155 SK40/25
100

	Ft.	ins.	Ft.	ins.
Red and grey sandy marl and gypsum.	7	0	267	3
Soft red and grey marl.	1	0	268	3
Coarse red and grey sandstone.	4	3	272	6
Red and grey sandstone.		6	273	6
Soft red and grey marl.	12	0	285	0
Soft red marl.	4	10	289	10
Red sandstone.	1	0	290	10
Coarse red and grey sandstone.	2	6	293	4
Red and grey sandy marl.	1	0	294	4
Red sandstone and bands of soft red marl.	3	0	297	4
Soft red marl.	8	0	305	4
Dark red sandy marl.	6	0	311	4
Grey sandy marl.		6	311	10
Red sandstone.	1	9	313	7
Coarse red and grey sandstone.	3	0	316	7
Conglomerate.		6	317	1
Soft yellow and purple bind.	6	3	323	4
Blue and purple bind.	3	0	326	4
Silt clunch.		9	327	1
Coal.		3	327	4

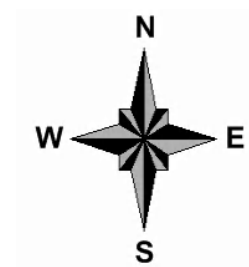
Coal
Measures

Appendix 3: Groundsure Report



Groundsure
INSIGHTS

1:2,500 Scale Grid Index



Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_1_1
Grid Ref: 445140, 305637

Map Name: County Series

Map date: 1886

Scale: 1:2,500

Printed at: 1:2,500



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

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

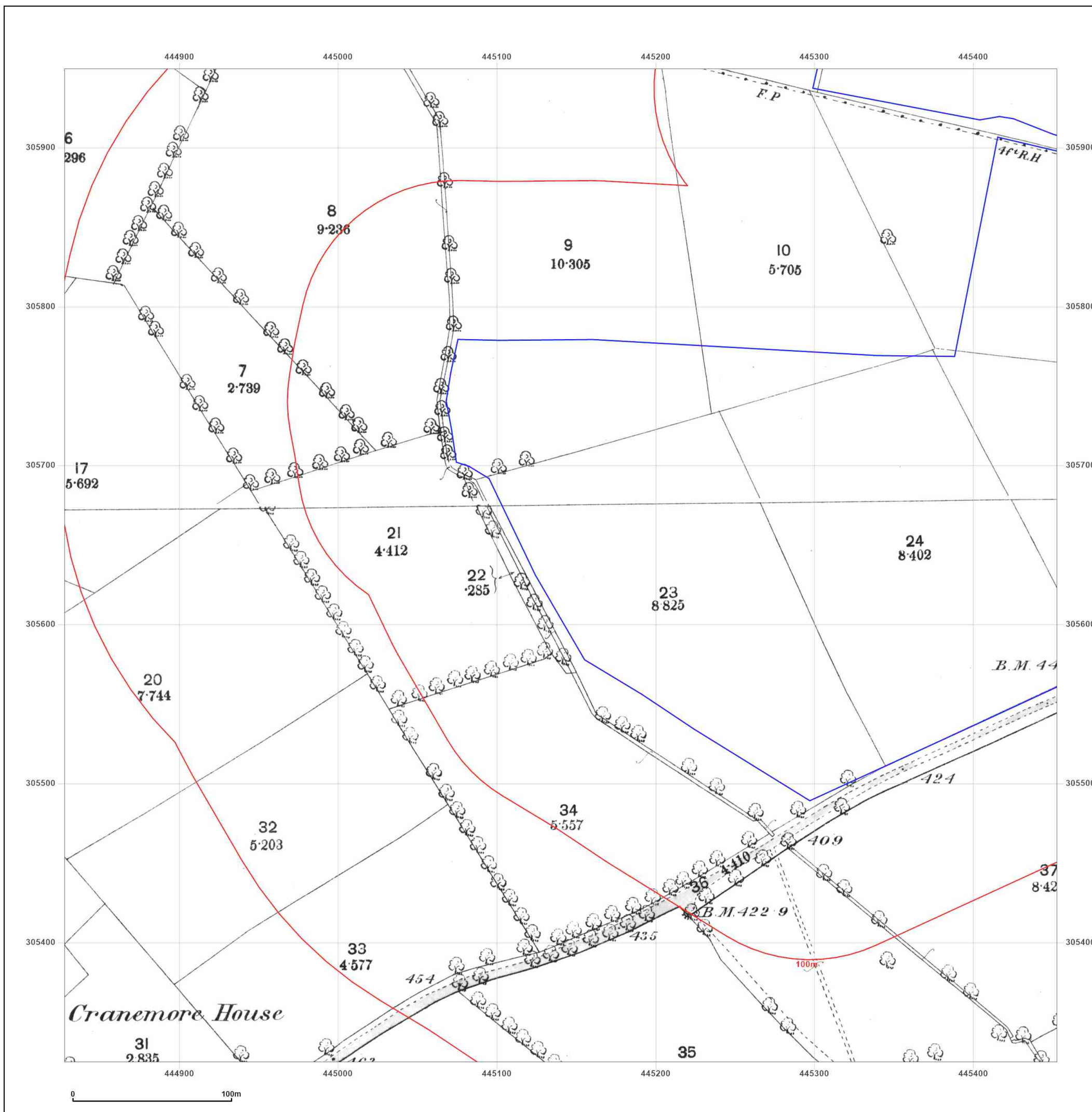


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Production date: 28 February 2025

Map legend available at:
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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_1_1
Grid Ref: 445140, 305637

Map Name: County Series

Map date: 1930

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1930
 Revised 1930
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1930
 Revised 1930
 Edition N/A
 Copyright N/A
 Levelled N/A

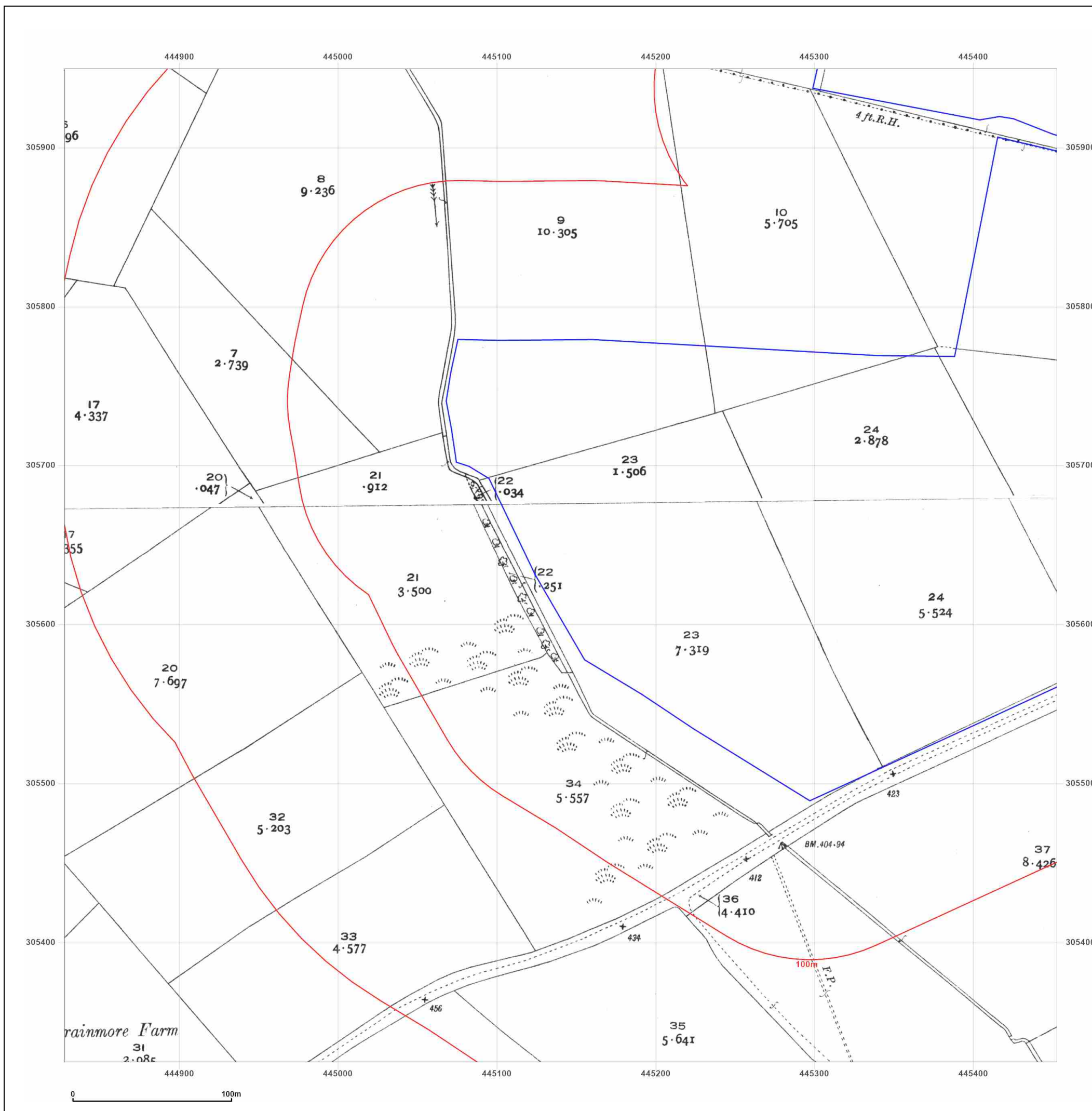


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_1_1
Grid Ref: 445140, 305637

Map Name: National Grid

Map date: 1958-1959

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1958
Revised 1958
Edition N/A
Copyright N/A
Levelled 1949

Surveyed 1958
Revised 1958
Edition N/A
Copyright 1959
Levelled 1949

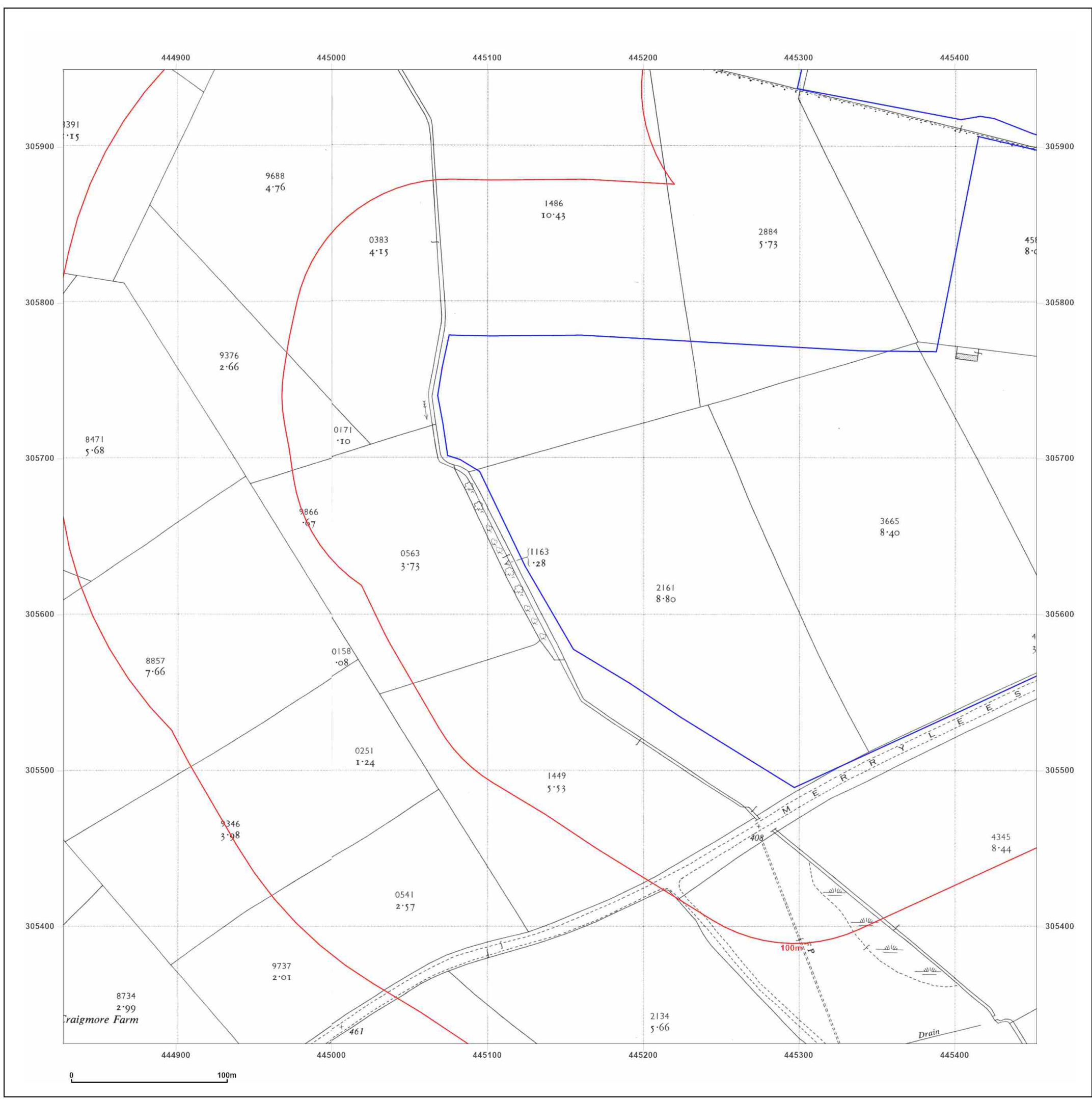


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_1_1
Grid Ref: 445140, 305637

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

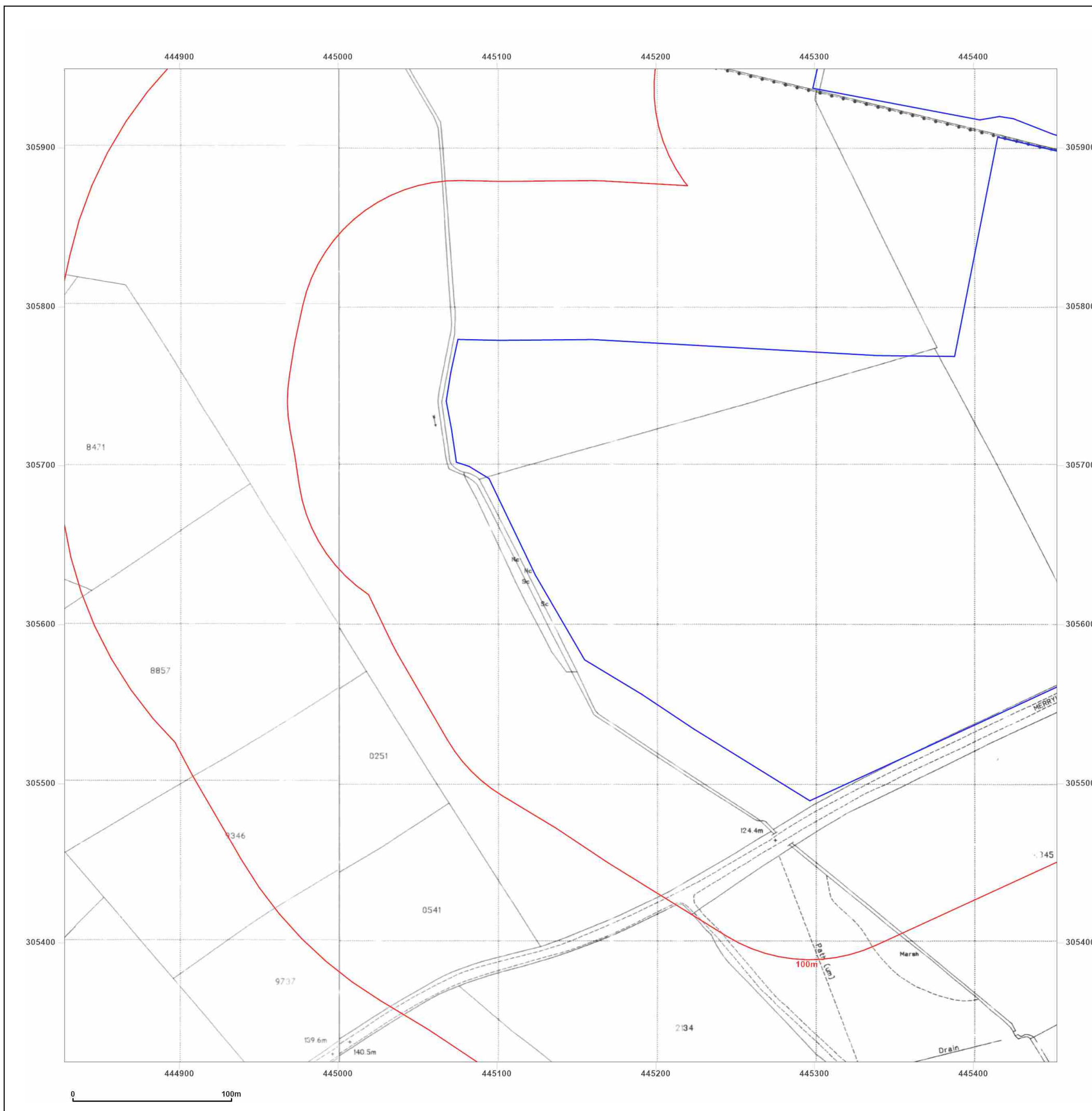


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_1_2
Grid Ref: 445140, 306262

Map Name: County Series

Map date: 1886

Scale: 1:2,500

Printed at: 1:2,500



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

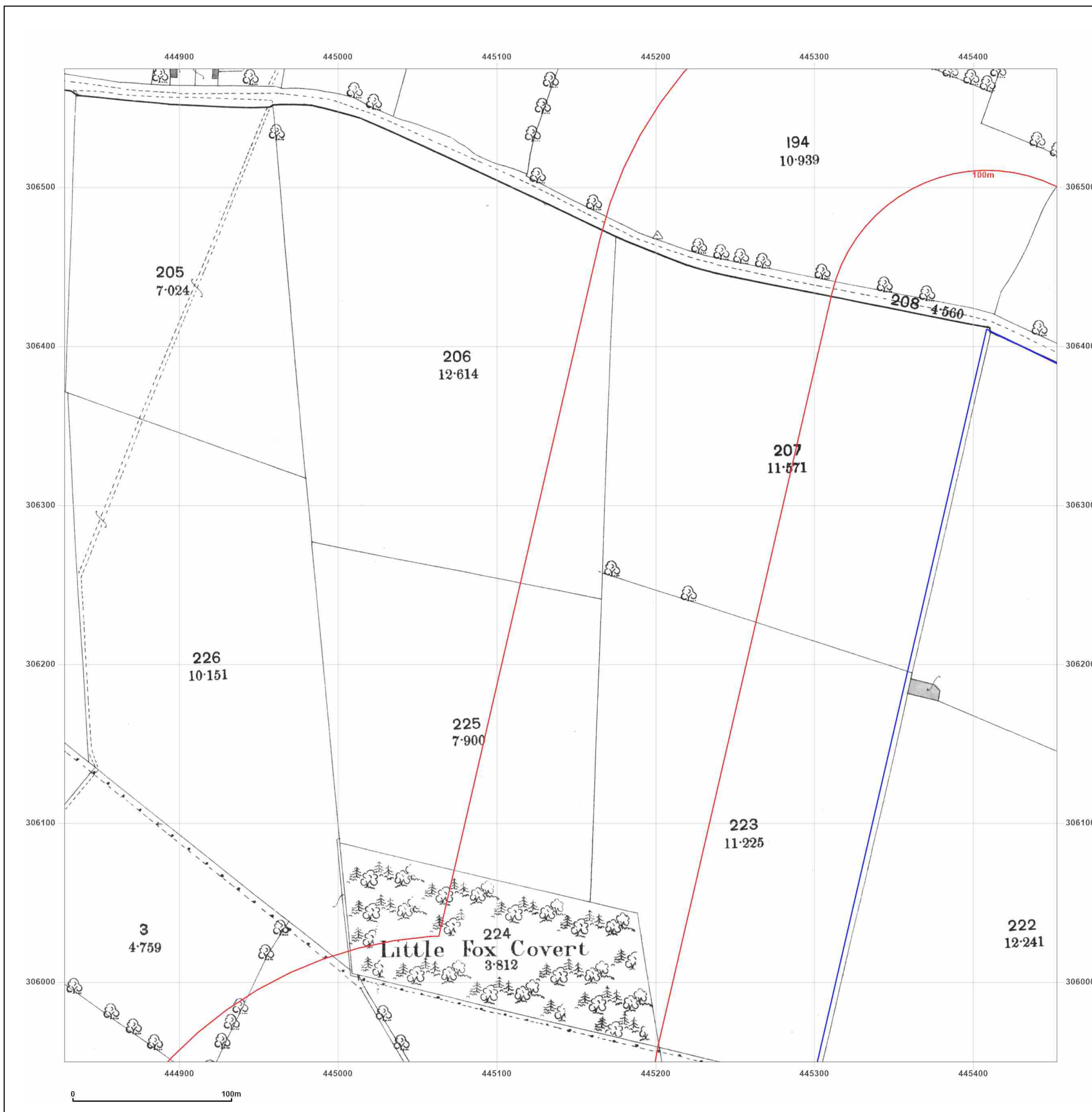


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_1_2
Grid Ref: 445140, 306262

Map Name: County Series

Map date: 1903

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1903
 Revised 1903
 Edition N/A
 Copyright N/A
 Levelled N/A

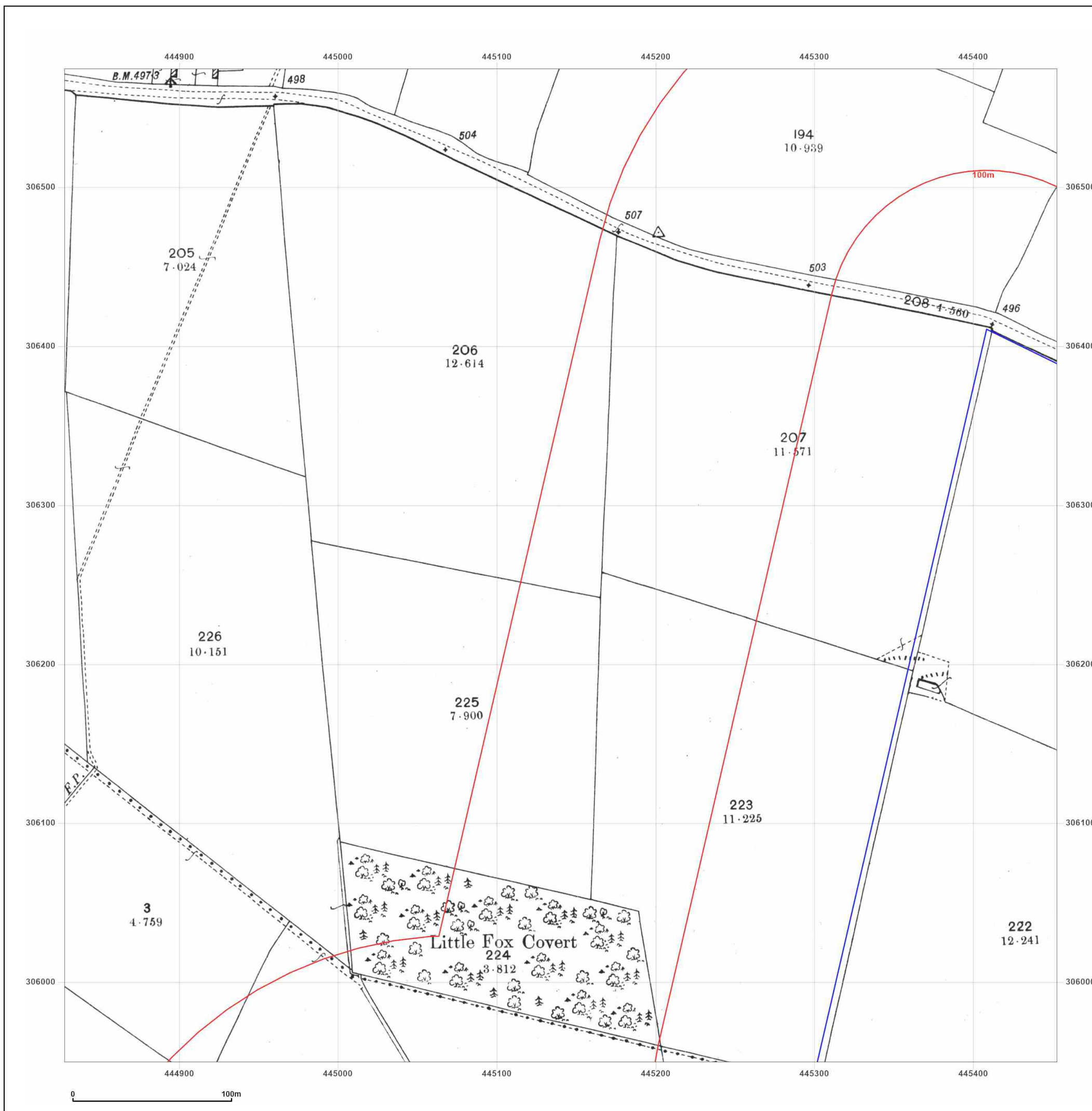


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_1_2
Grid Ref: 445140, 306262

Map Name: County Series

Map date: 1915

Scale: 1:2,500

Printed at: 1:2,500



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 Revised 1915
 Edition N/A
 Copyright N/A
 Levelled N/A

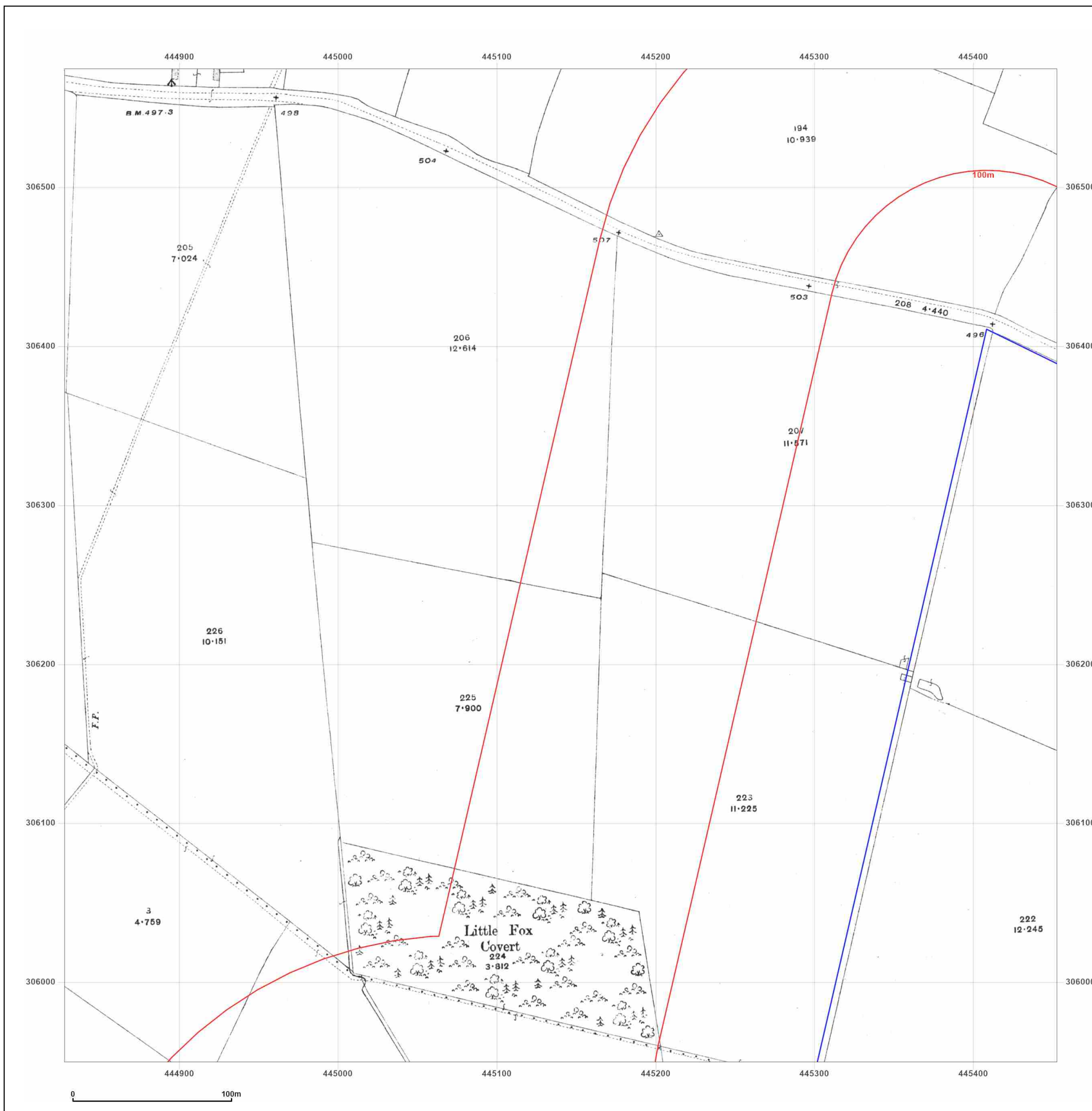


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_1_2
Grid Ref: 445140, 306262

Map Name: County Series

Map date: 1930

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1930
 Revised 1930
 Edition N/A
 Copyright N/A
 Levelled N/A

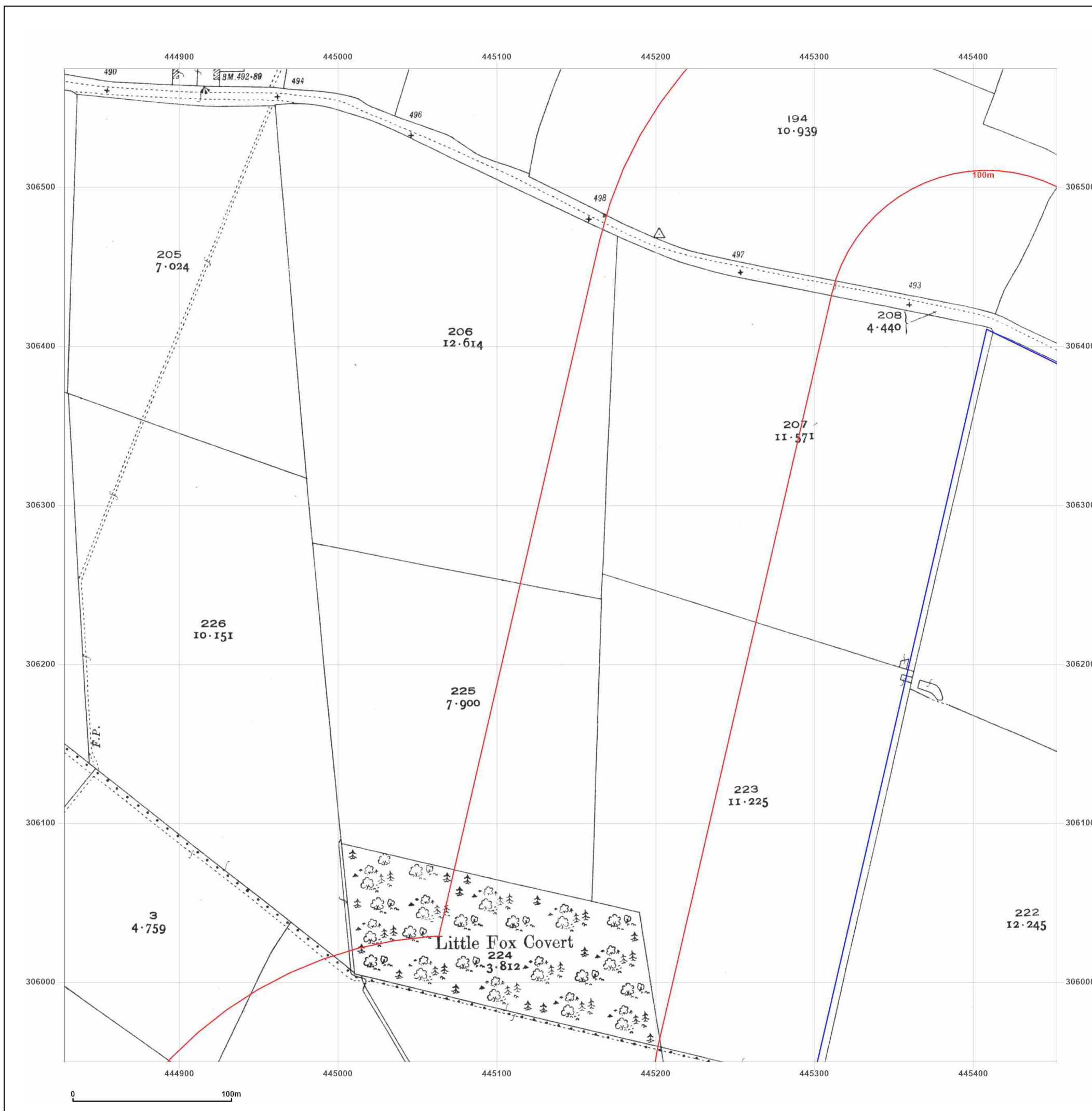


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_1_2
Grid Ref: 445140, 306262

Map Name: National Grid

Map date: 1958-1959

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1958
 Revised 1958
 Edition N/A
 Copyright 1959
 Levelled 1949

Surveyed 1958
 Revised 1958
 Edition N/A
 Copyright 1959
 Levelled 1949

Surveyed 1958
 Revised 1958
 Edition N/A
 Copyright N/A
 Levelled 1949

Surveyed 1958
 Revised 1958
 Edition N/A
 Copyright 1959
 Levelled 1949

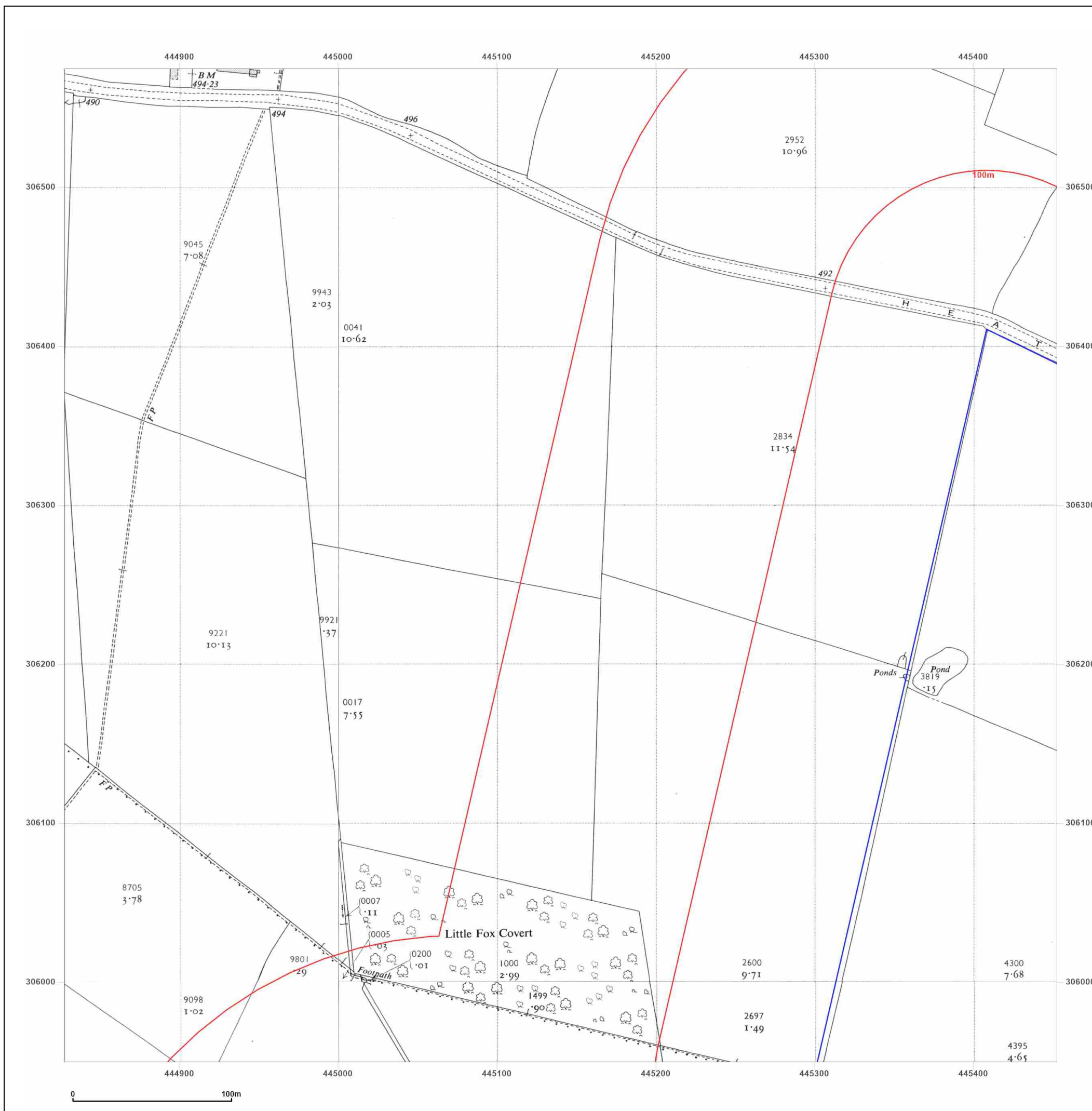


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_1_2
Grid Ref: 445140, 306262

Map Name: National Grid

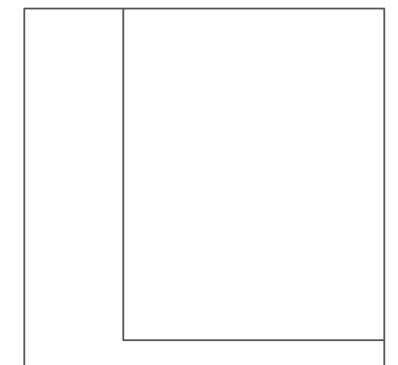
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Printed at: 1:2,500



Surveyed 1963
 Revised 1984
 Edition N/A
 Copyright 1984
 Levelled 1963

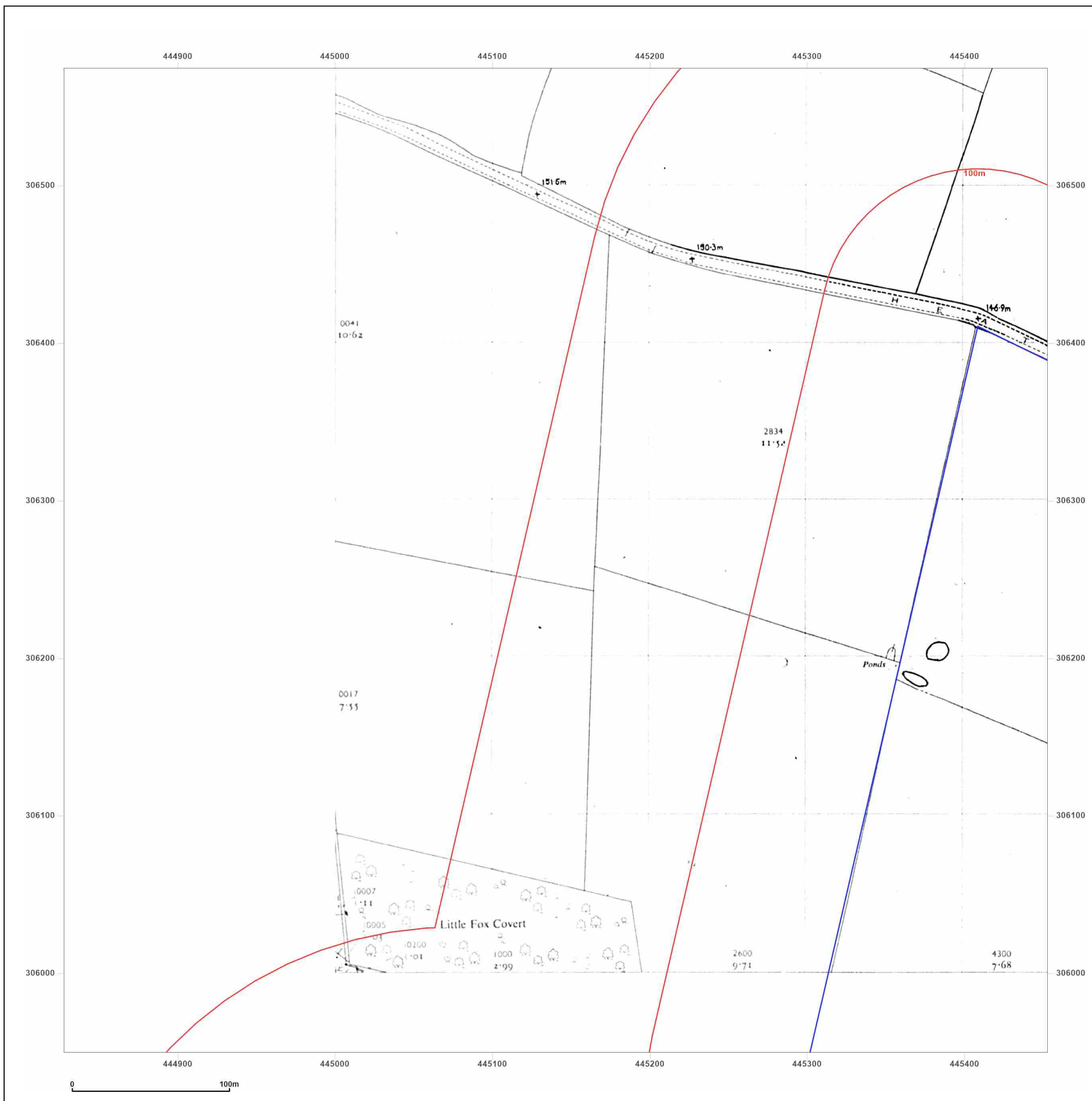


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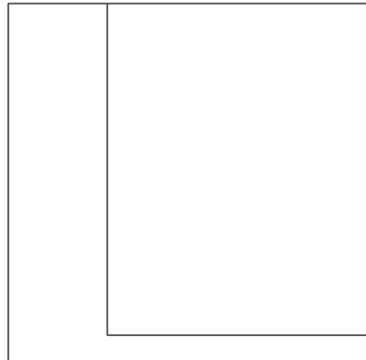
Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_1_2
Grid Ref: 445140, 306262

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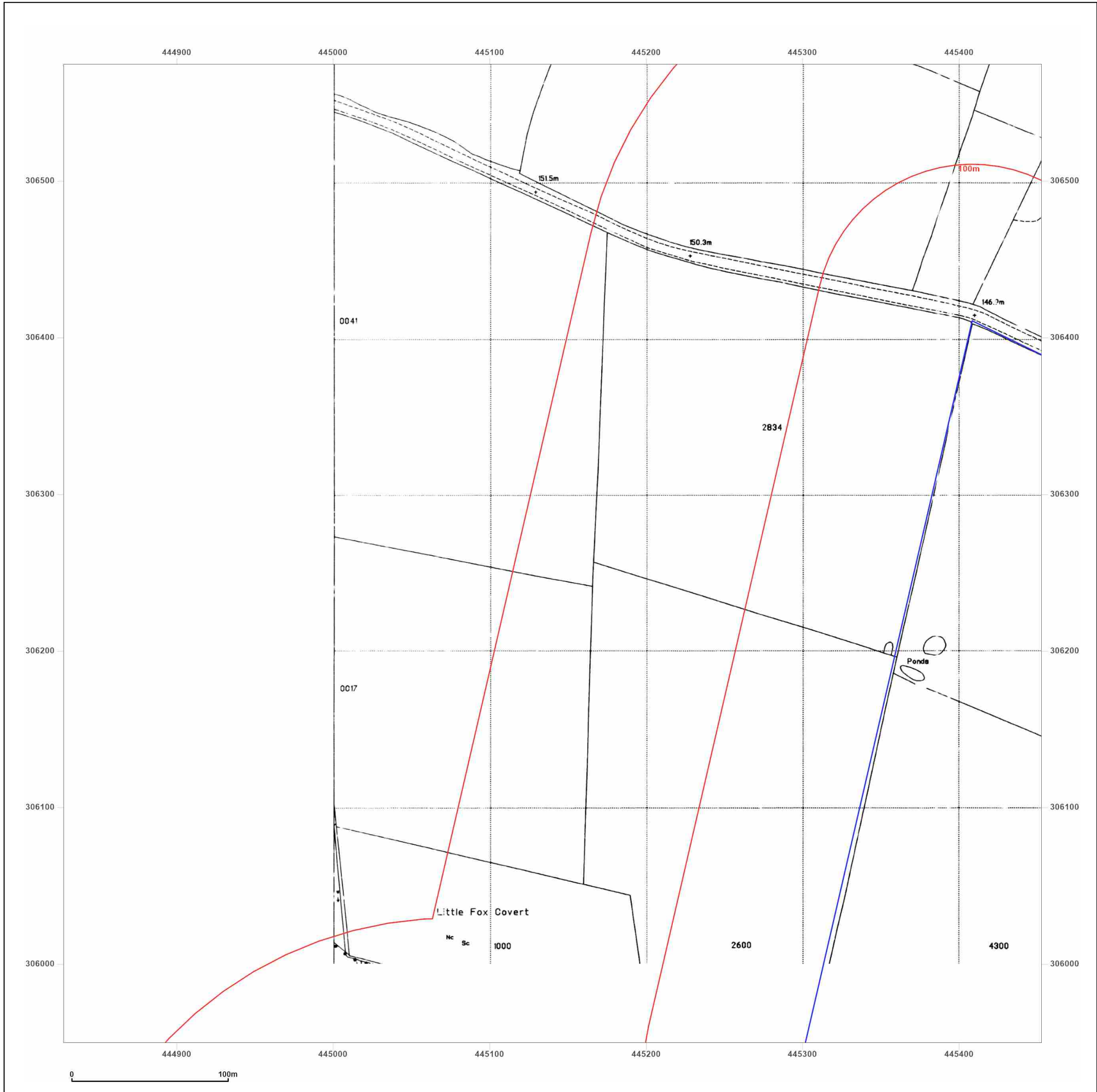




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Edition N/A
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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_1_2
Grid Ref: 445140, 306262

Map Name: National Grid

Map date: 1995

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Printed at: 1:2,500



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Edition N/A
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Levelled N/A

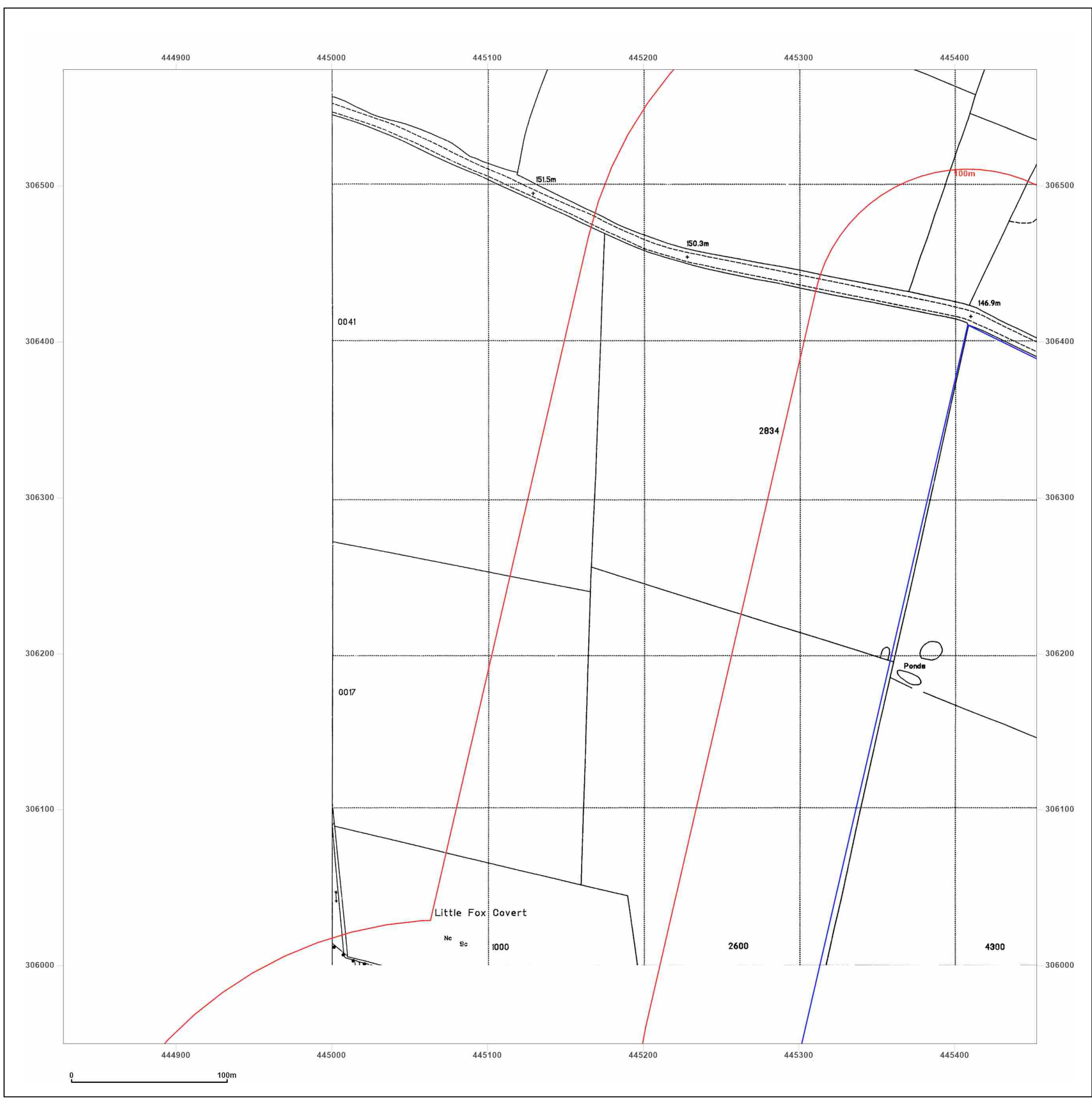


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_2_1
Grid Ref: 445765, 305637

Map Name: County Series

Map date: 1886

Scale: 1:2,500

Printed at: 1:2,500



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

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

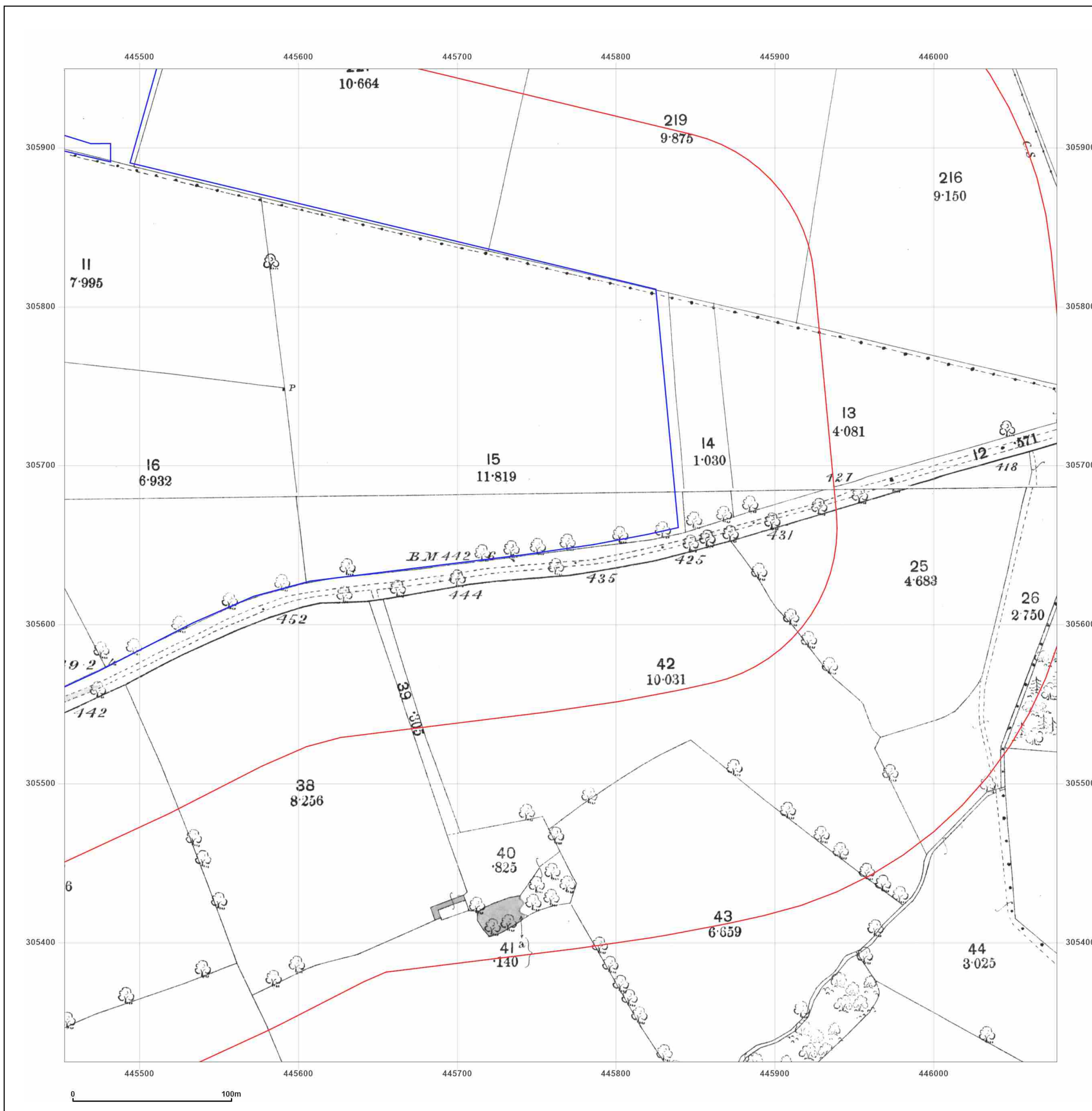


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_2_1
Grid Ref: 445765, 305637

Map Name: County Series

Map date: 1903

Scale: 1:2,500

Printed at: 1:2,500



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 Edition N/A
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Surveyed 1903
 Revised 1903
 Edition N/A
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 Levelled N/A

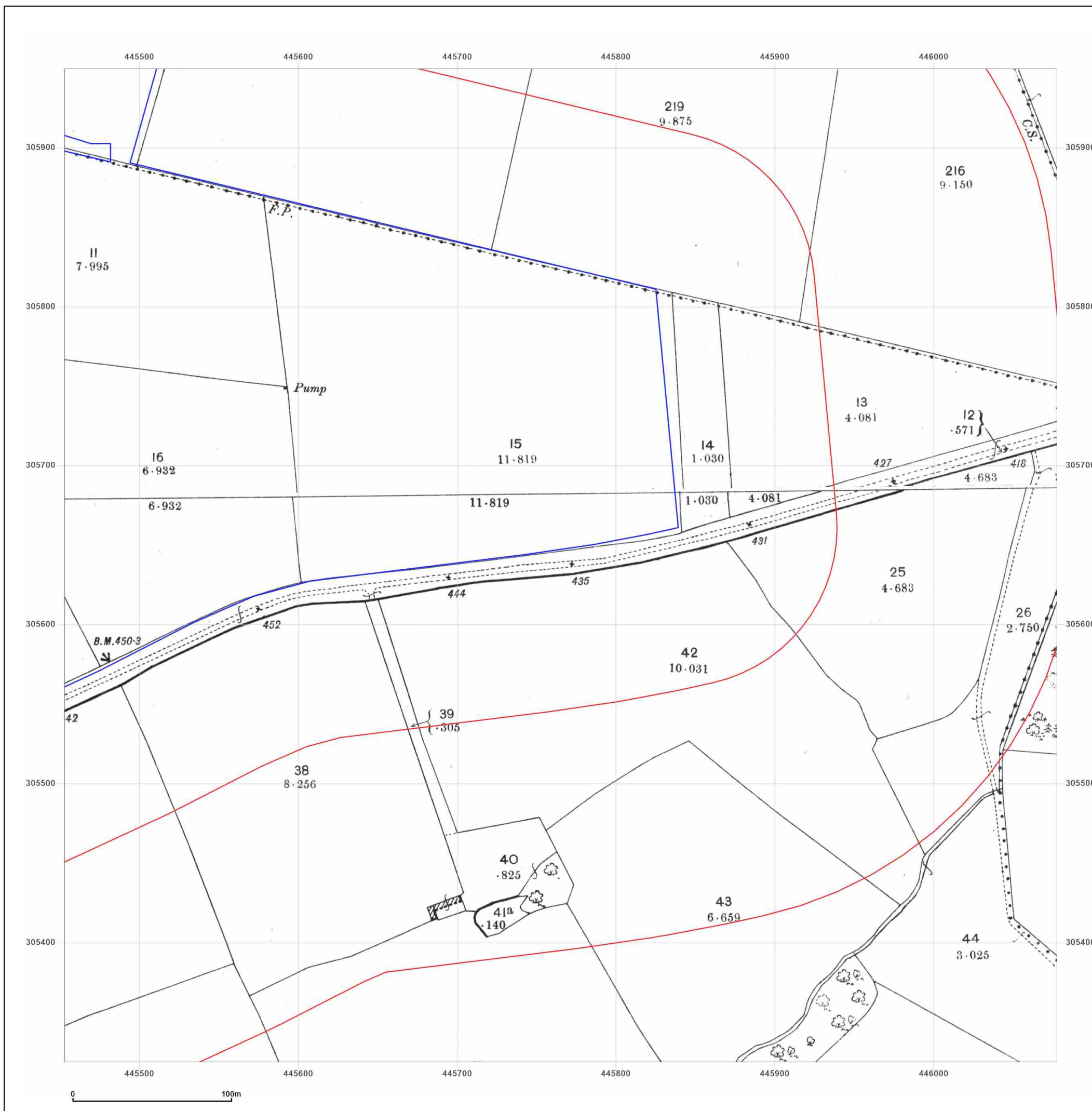


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_2_1
Grid Ref: 445765, 305637

Map Name: County Series

Map date: 1915

Scale: 1:2,500

Printed at: 1:2,500



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 Edition N/A
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Surveyed 1915
 Revised 1915
 Edition N/A
 Copyright N/A
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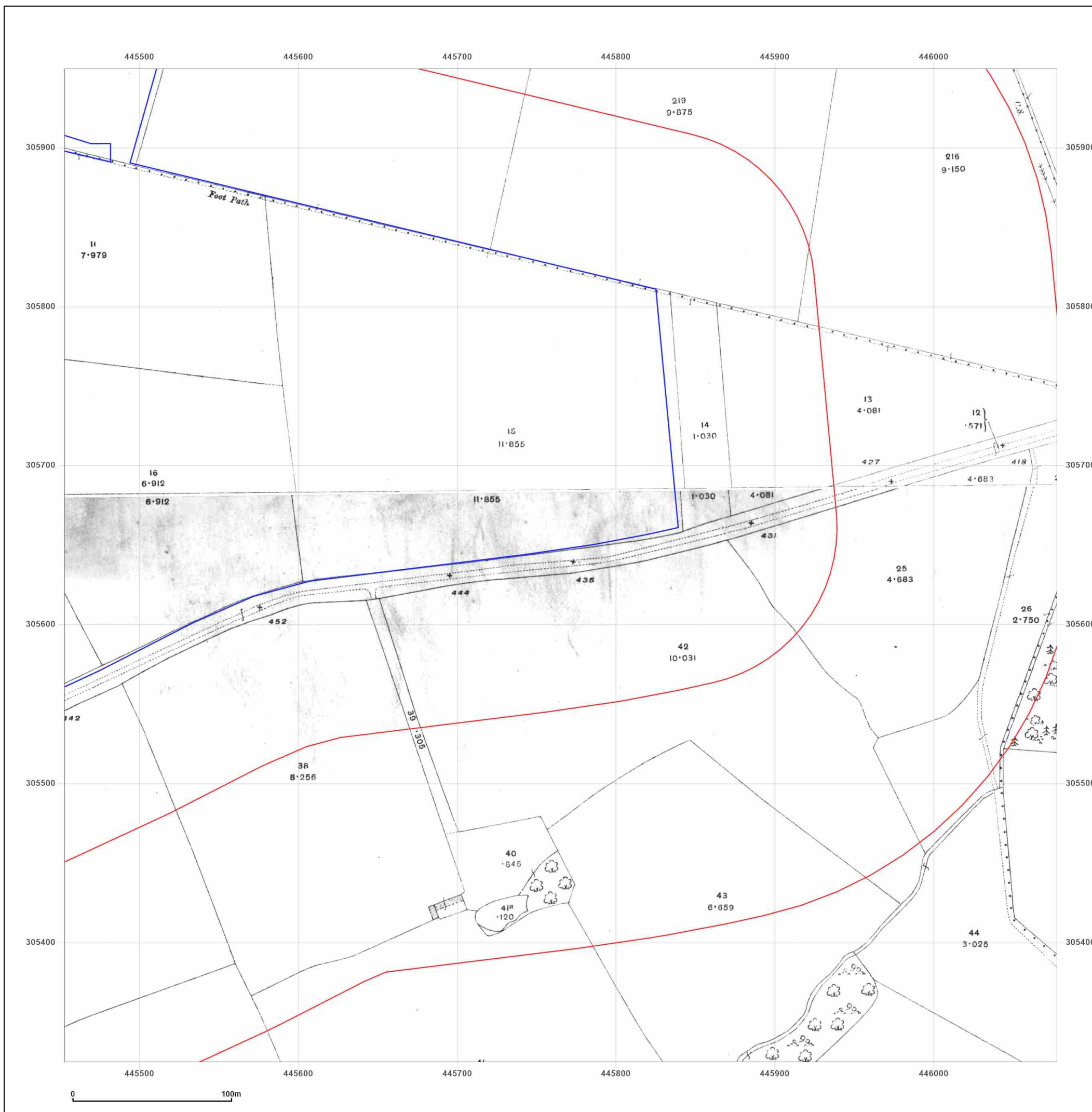


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_2_1
Grid Ref: 445765, 305637

Map Name: County Series

Map date: 1930

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1930
 Revised 1930
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1930
 Revised 1930
 Edition N/A
 Copyright N/A
 Levelled N/A

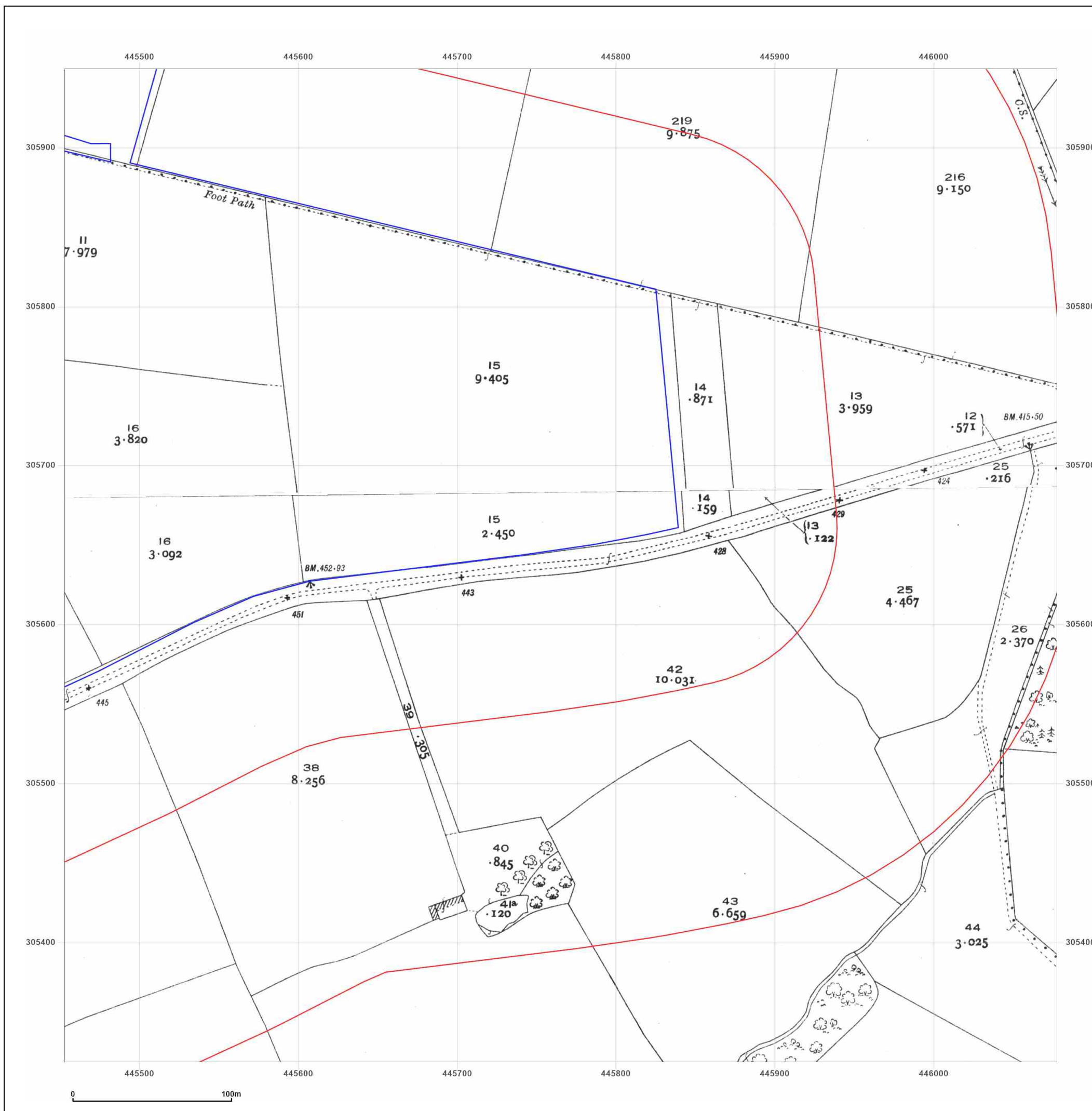


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_2_1
Grid Ref: 445765, 305637

Map Name: National Grid

Map date: 1959

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1958
 Revised 1958
 Edition N/A
 Copyright 1959
 Levelled 1949

Surveyed 1958
 Revised 1958
 Edition N/A
 Copyright 1959
 Levelled 1949

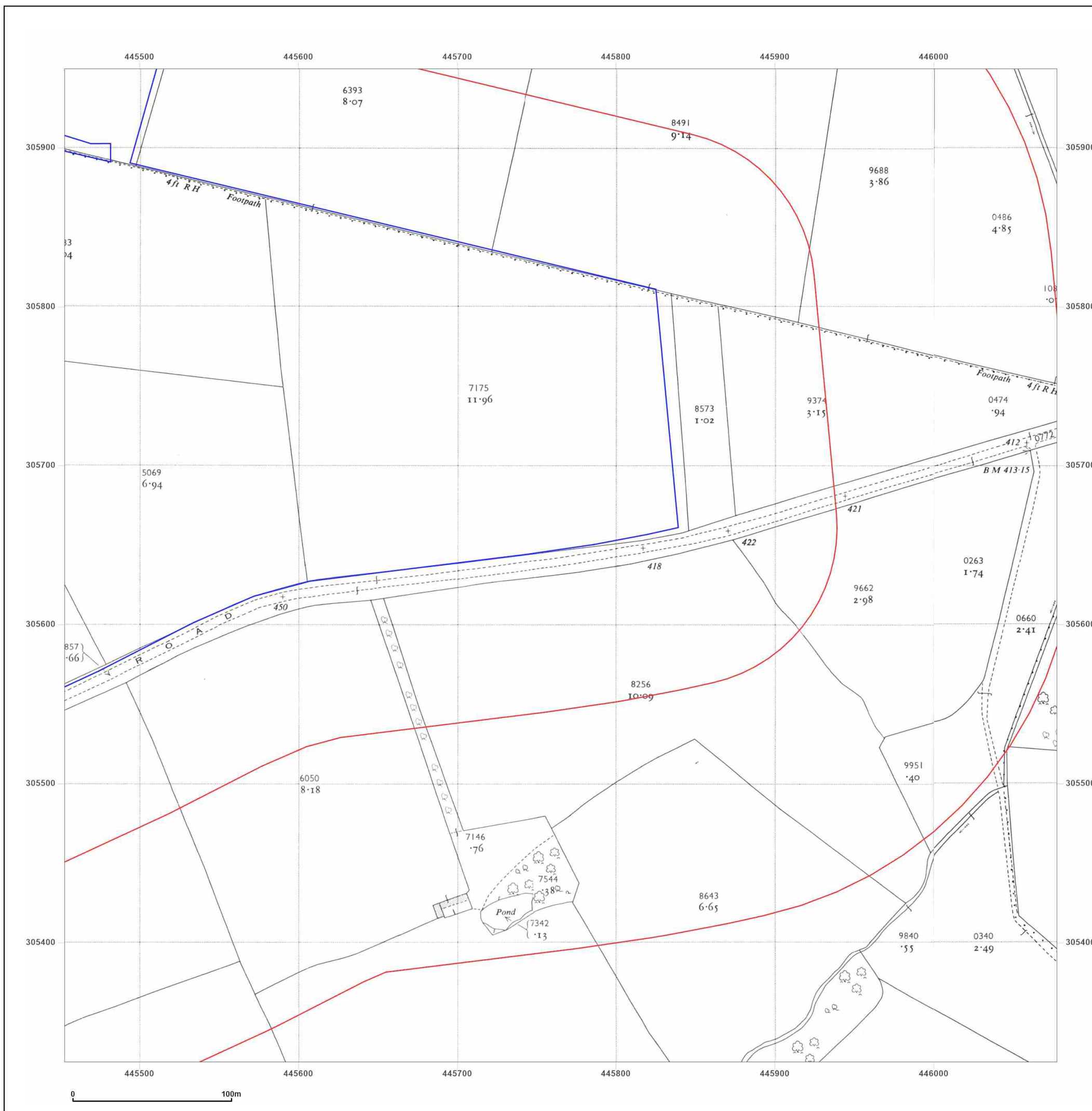


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_2_1
Grid Ref: 445765, 305637

Map Name: National Grid

Map date: 1991-1994

Scale: 1:2,500

Printed at: 1:2,500



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

Surveyed 1949
Revised 1991
Edition N/A
Copyright 1991
Levelled 1949

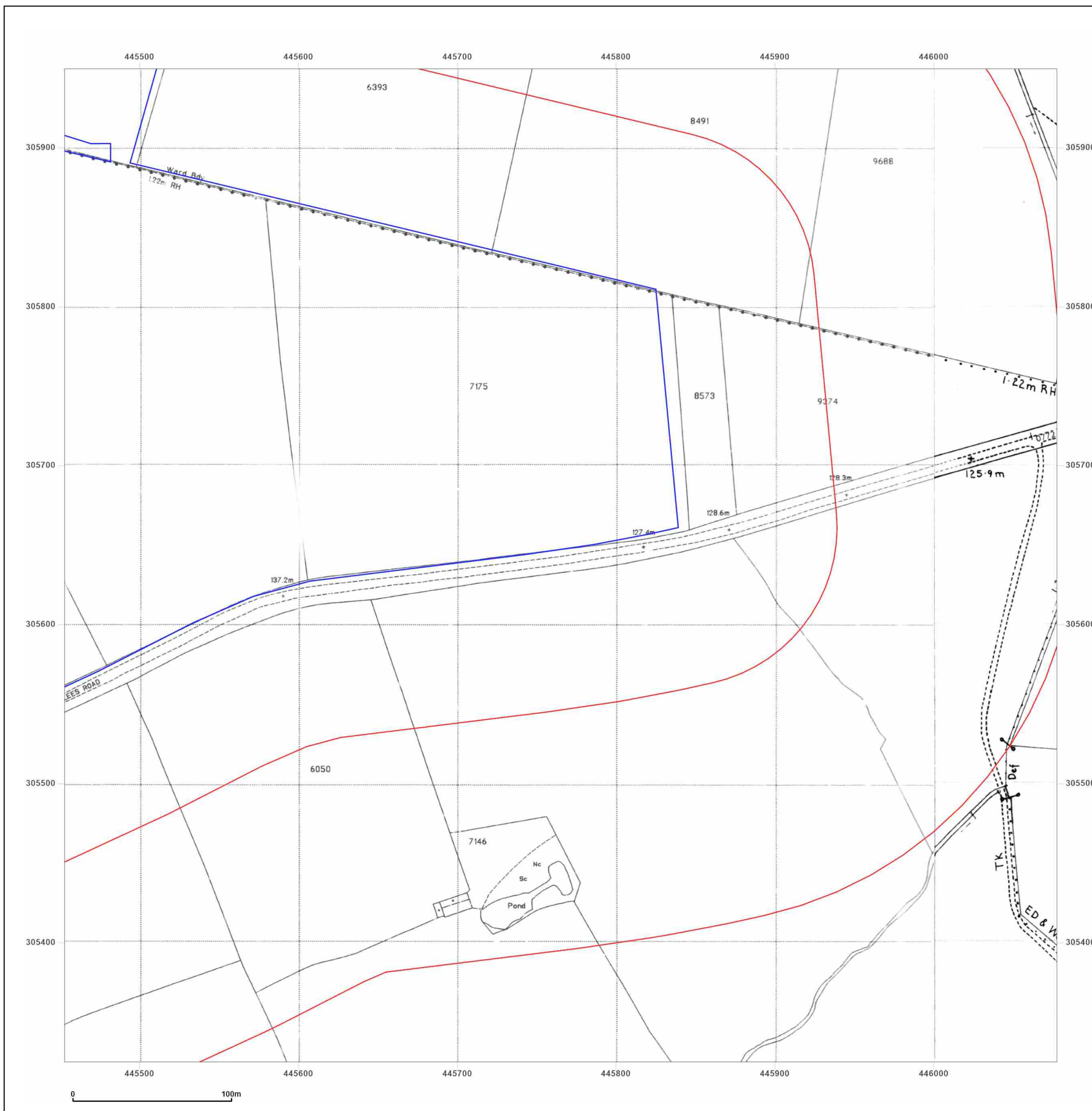


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_2_2
Grid Ref: 445765, 306262

Map Name: County Series

Map date: 1886

Scale: 1:2,500

Printed at: 1:2,500



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

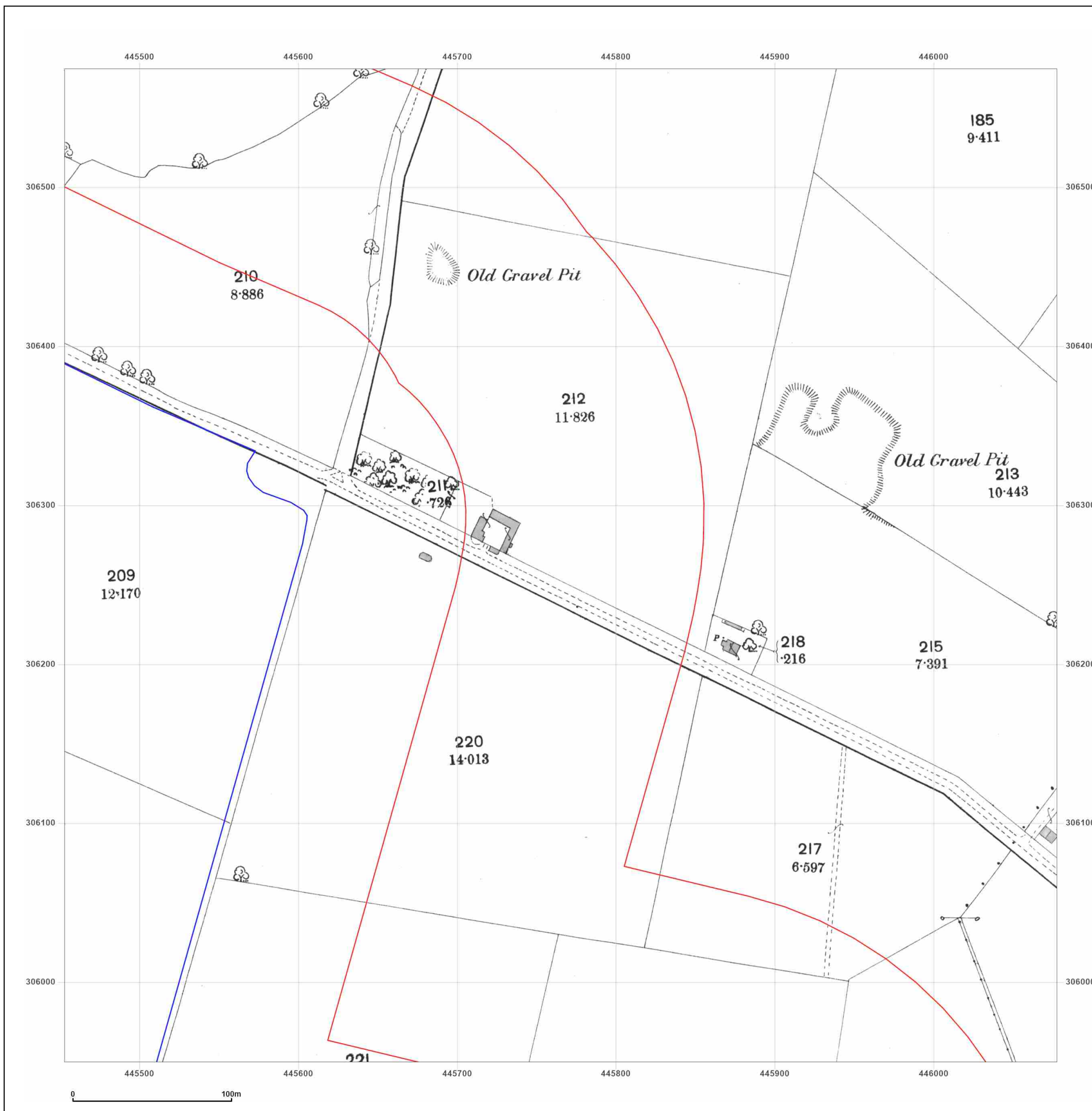


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_2_2
Grid Ref: 445765, 306262

Map Name: County Series

Map date: 1903

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1903
 Revised 1903
 Edition N/A
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 Levelled N/A

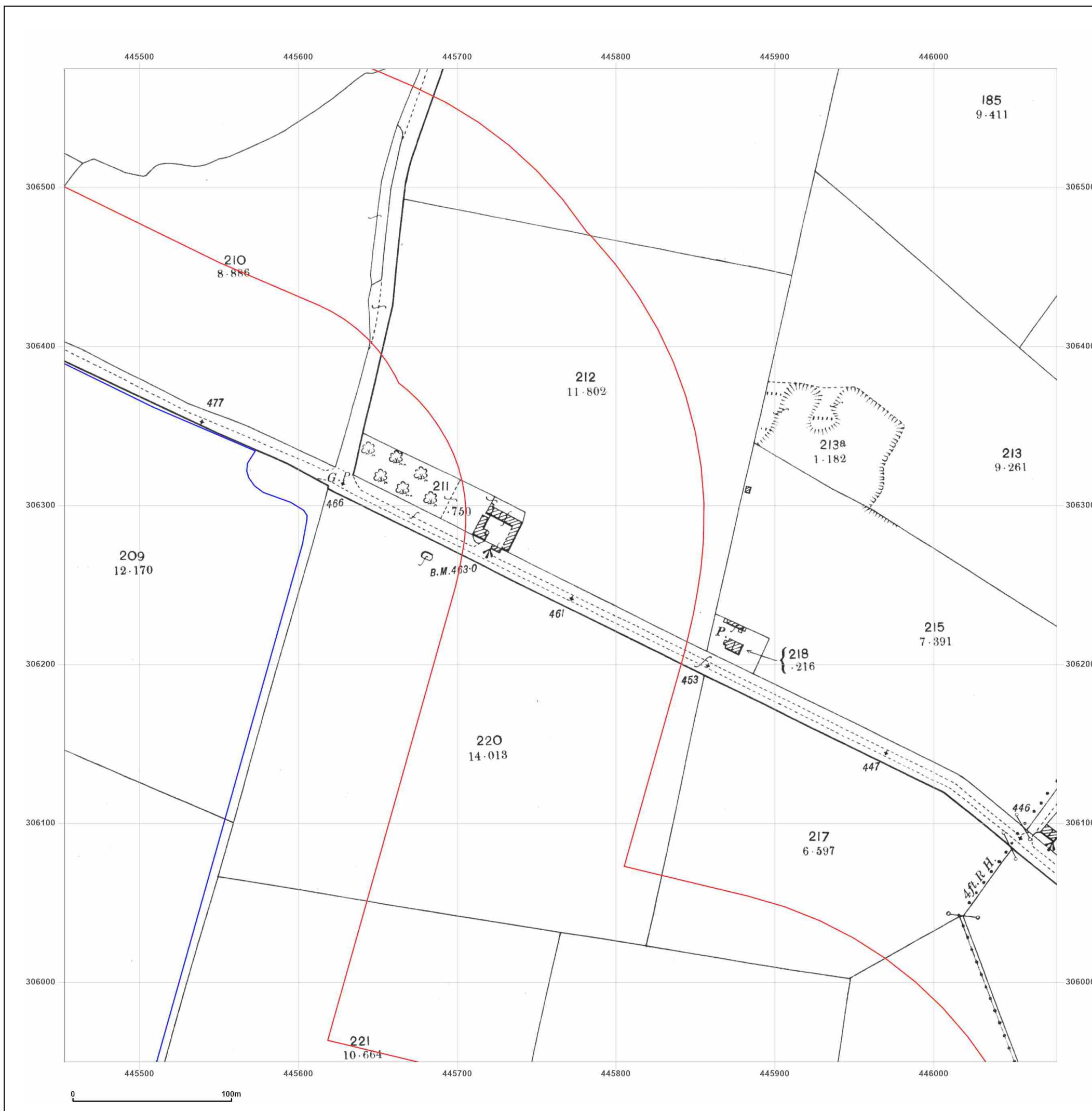


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_2_2
Grid Ref: 445765, 306262

Map Name: County Series

Map date: 1915

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1915
 Revised 1915
 Edition N/A
 Copyright N/A
 Levelled N/A

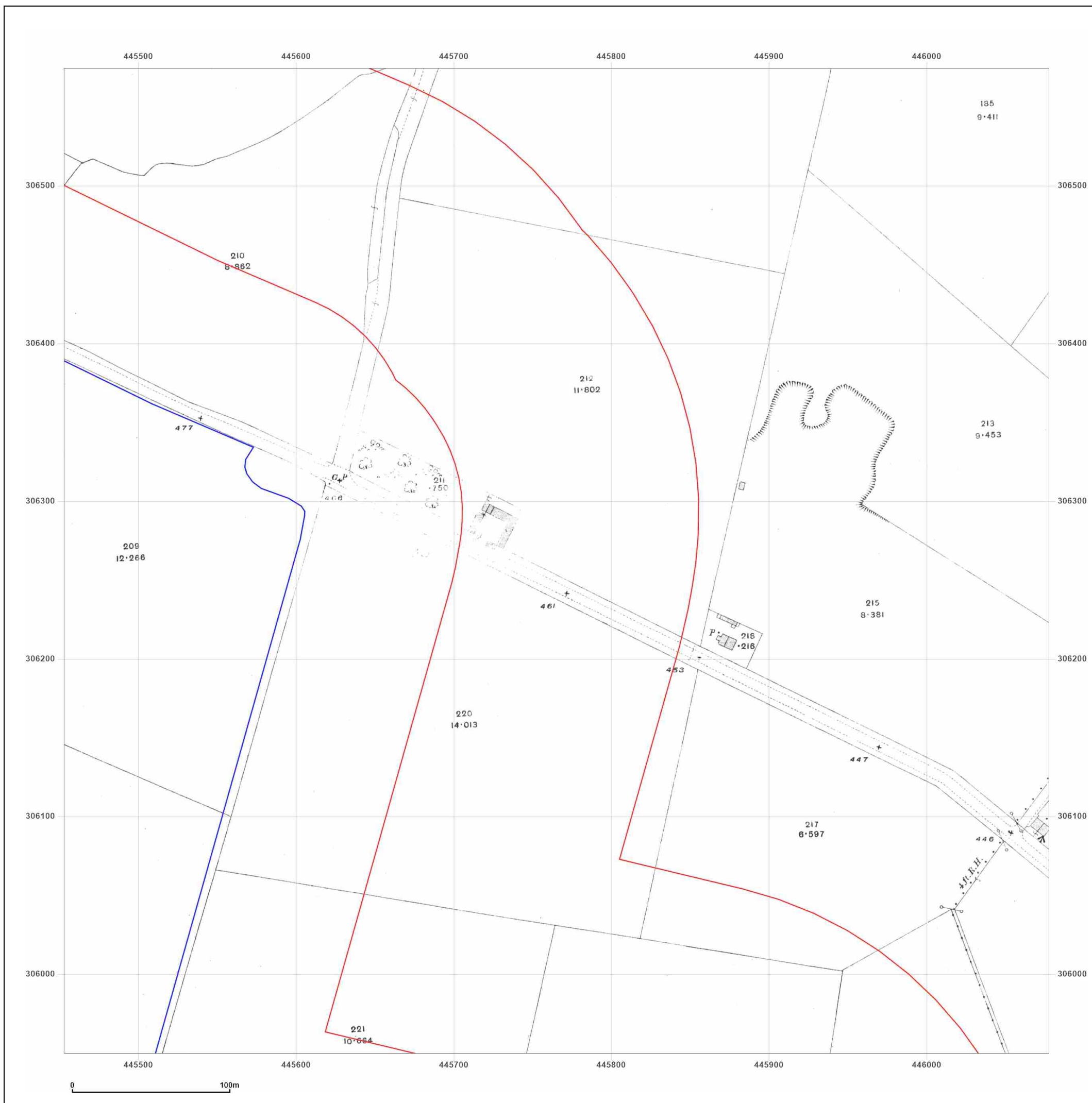


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_2_2
Grid Ref: 445765, 306262

Map Name: County Series

Map date: 1930

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1930
 Revised 1930
 Edition N/A
 Copyright N/A
 Levelled N/A

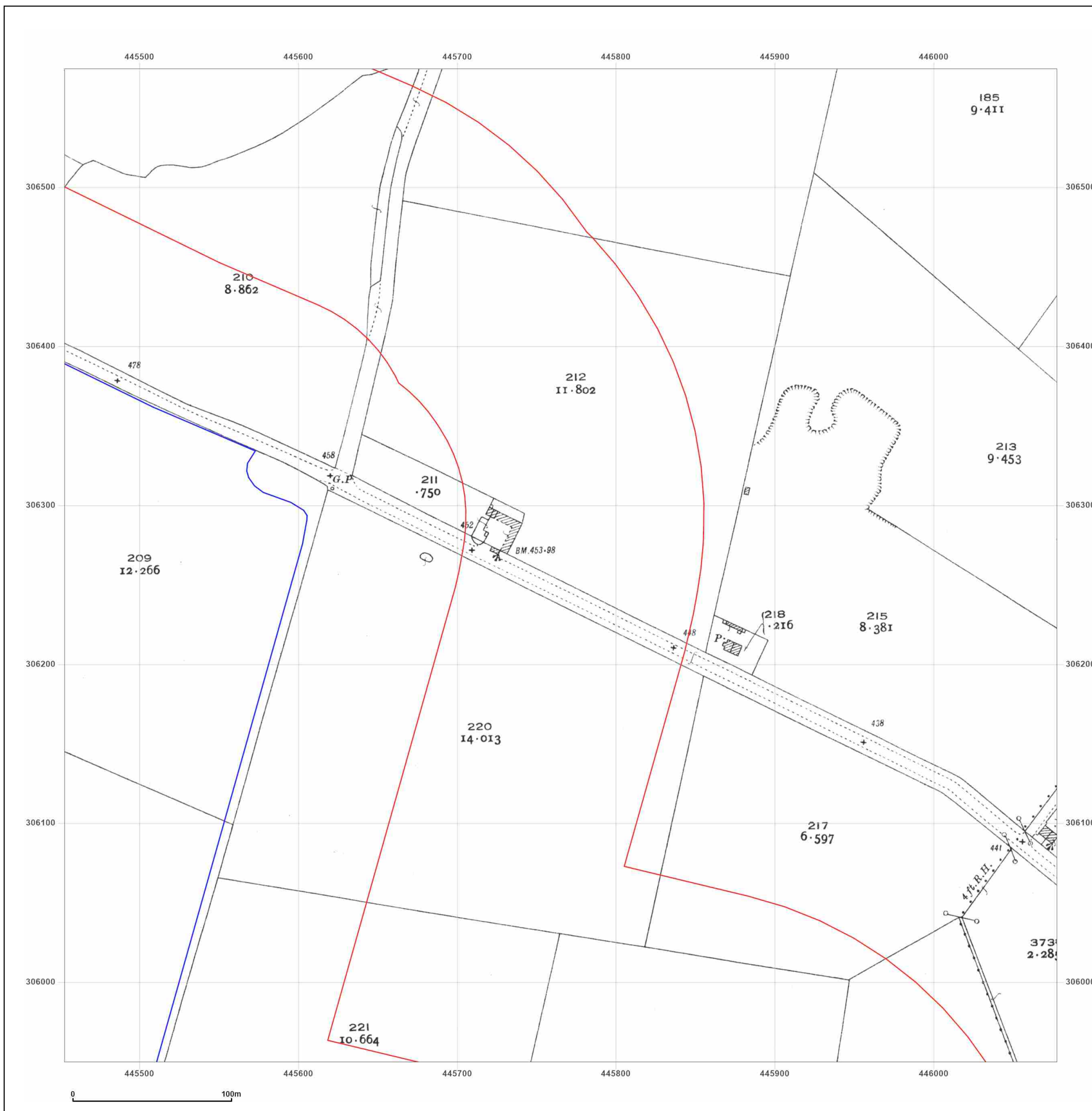


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_2_2
Grid Ref: 445765, 306262

Map Name: National Grid

Map date: 1959

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1958
 Revised 1958
 Edition N/A
 Copyright 1959
 Levelled 1949

Surveyed 1958
 Revised 1958
 Edition N/A
 Copyright 1959
 Levelled 1949

Surveyed 1958
 Revised 1958
 Edition N/A
 Copyright 1959
 Levelled 1949

Surveyed 1958
 Revised 1958
 Edition N/A
 Copyright 1959
 Levelled 1949

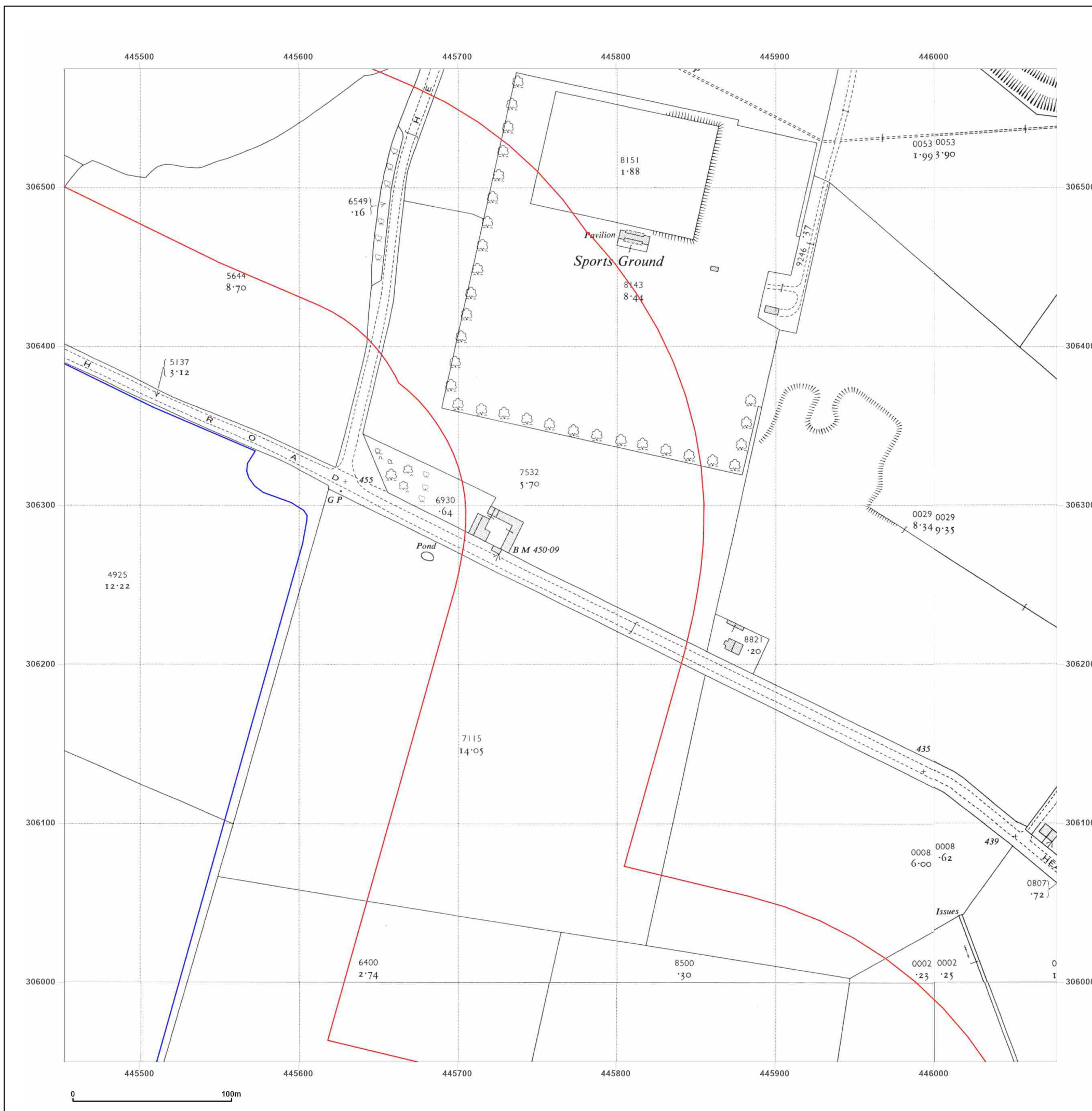


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_2_2
Grid Ref: 445765, 306262

Map Name: National Grid

Map date: 1984-1989

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1963
 Revised 1984
 Edition N/A
 Copyright 1984
 Levelled 1963

Surveyed 1963
 Revised 1989
 Edition N/A
 Copyright 1989
 Levelled 1963

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

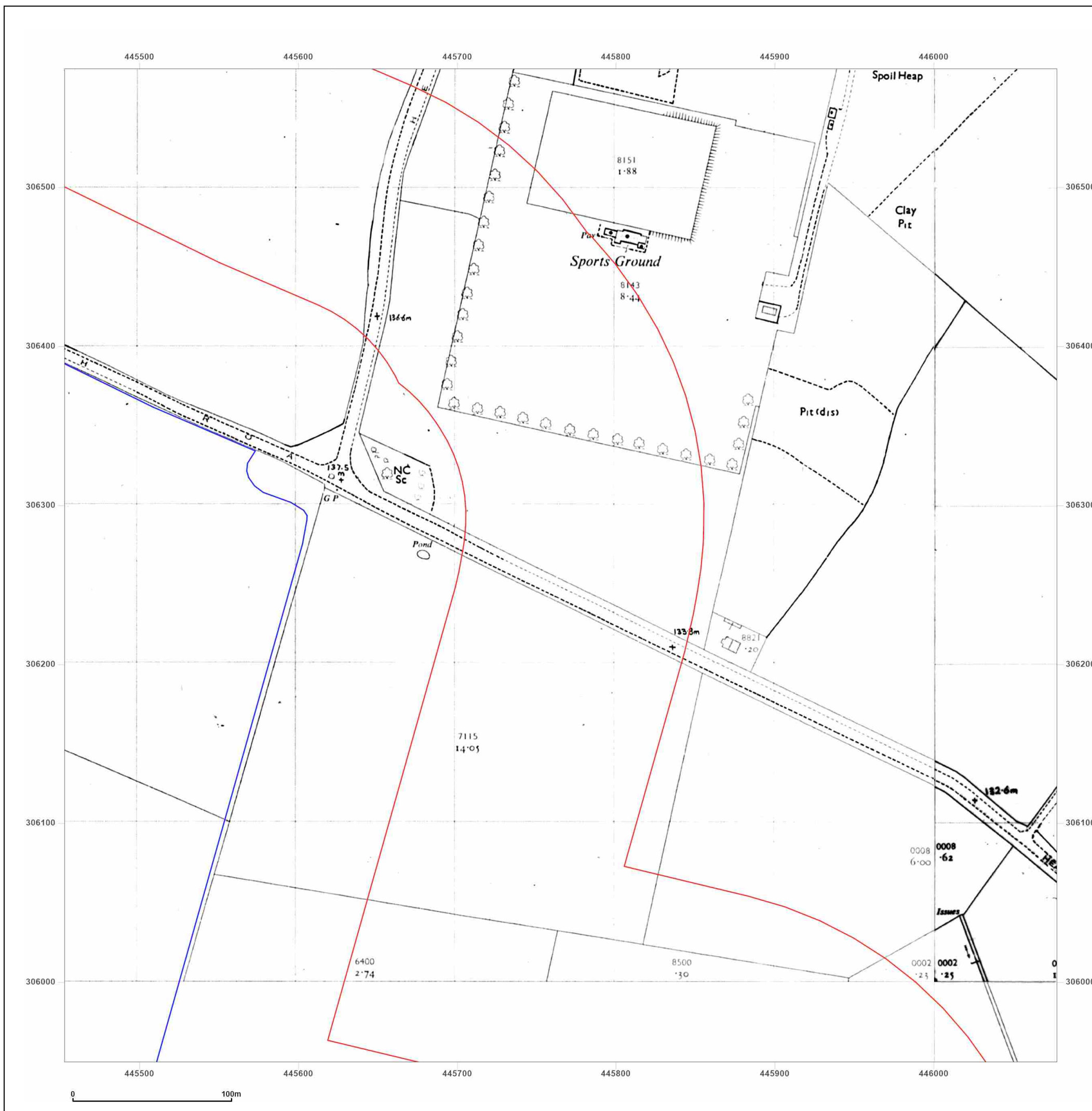


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_2_2
Grid Ref: 445765, 306262

Map Name: National Grid

Map date: 1991-1994

Scale: 1:2,500

Printed at: 1:2,500



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

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

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

Surveyed 1949
 Revised 1991
 Edition N/A
 Copyright 1991
 Levelled 1949

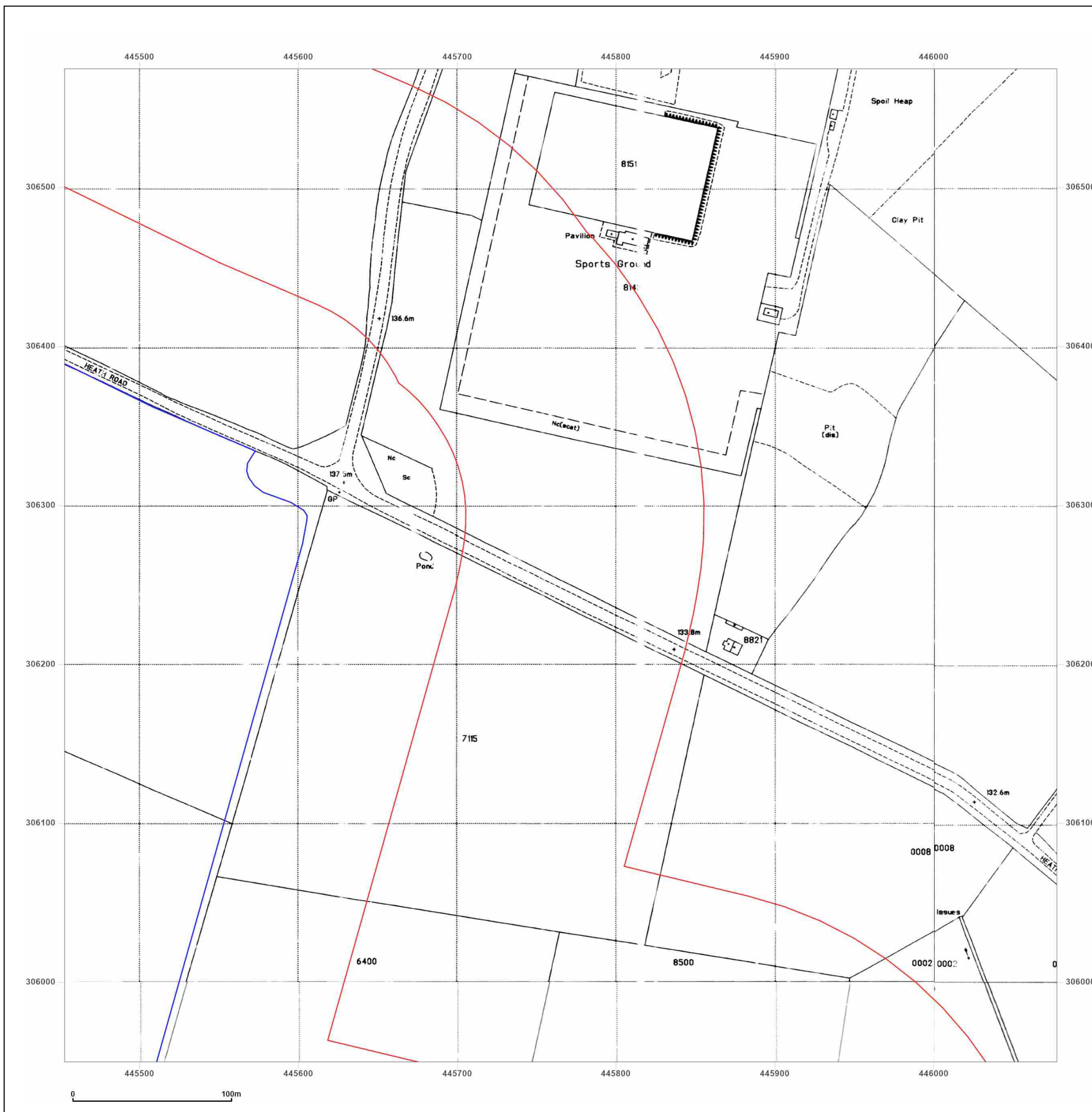


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_2_2
Grid Ref: 445765, 306262

Map Name: National Grid

Map date: 1994-1995

Scale: 1:2,500

Printed at: 1:2,500



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

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

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

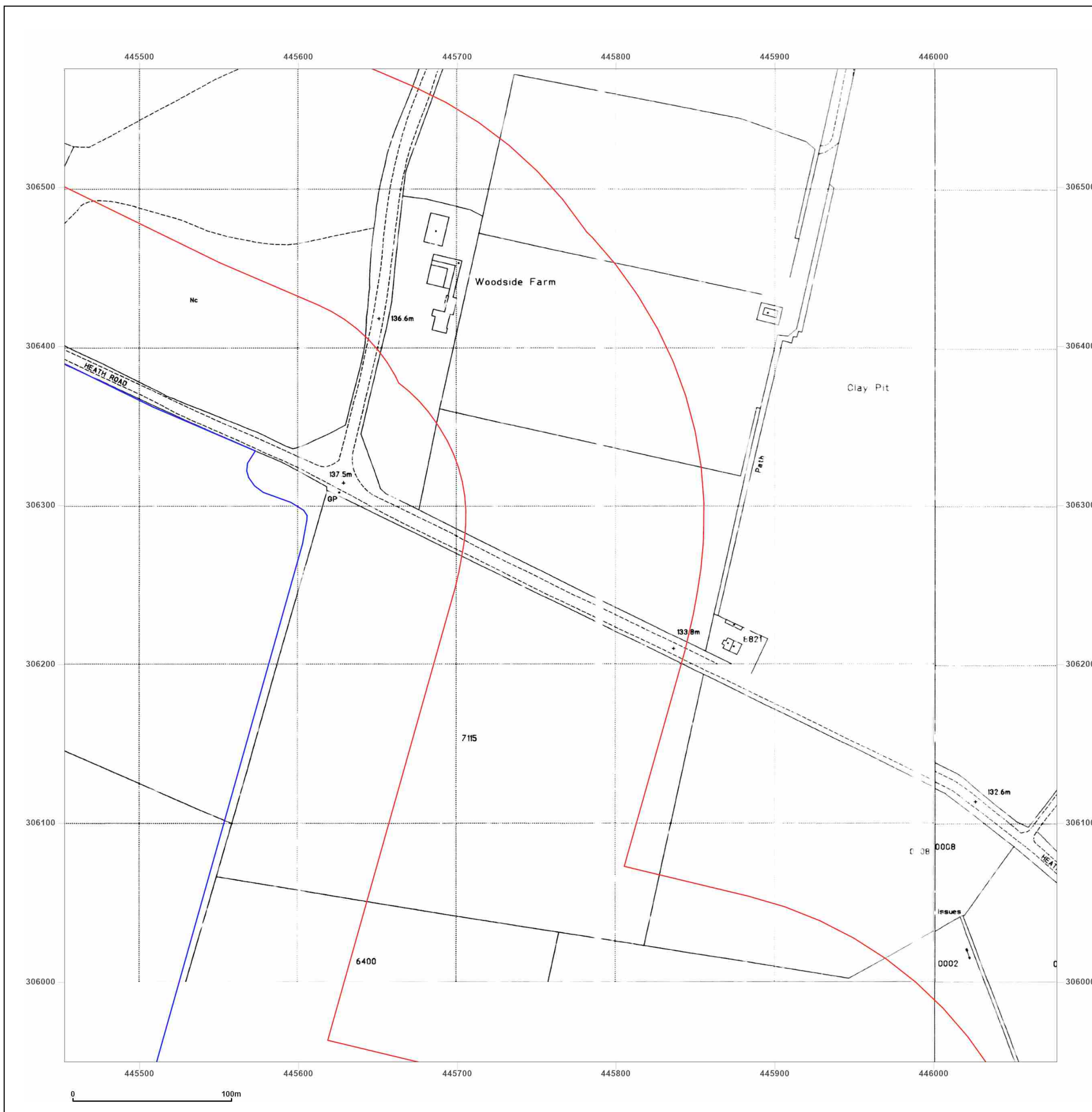


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_LS_2_2
Grid Ref: 445765, 306262

Map Name: National Grid

Map date: 1995

Scale: 1:2,500

Printed at: 1:2,500



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

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

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

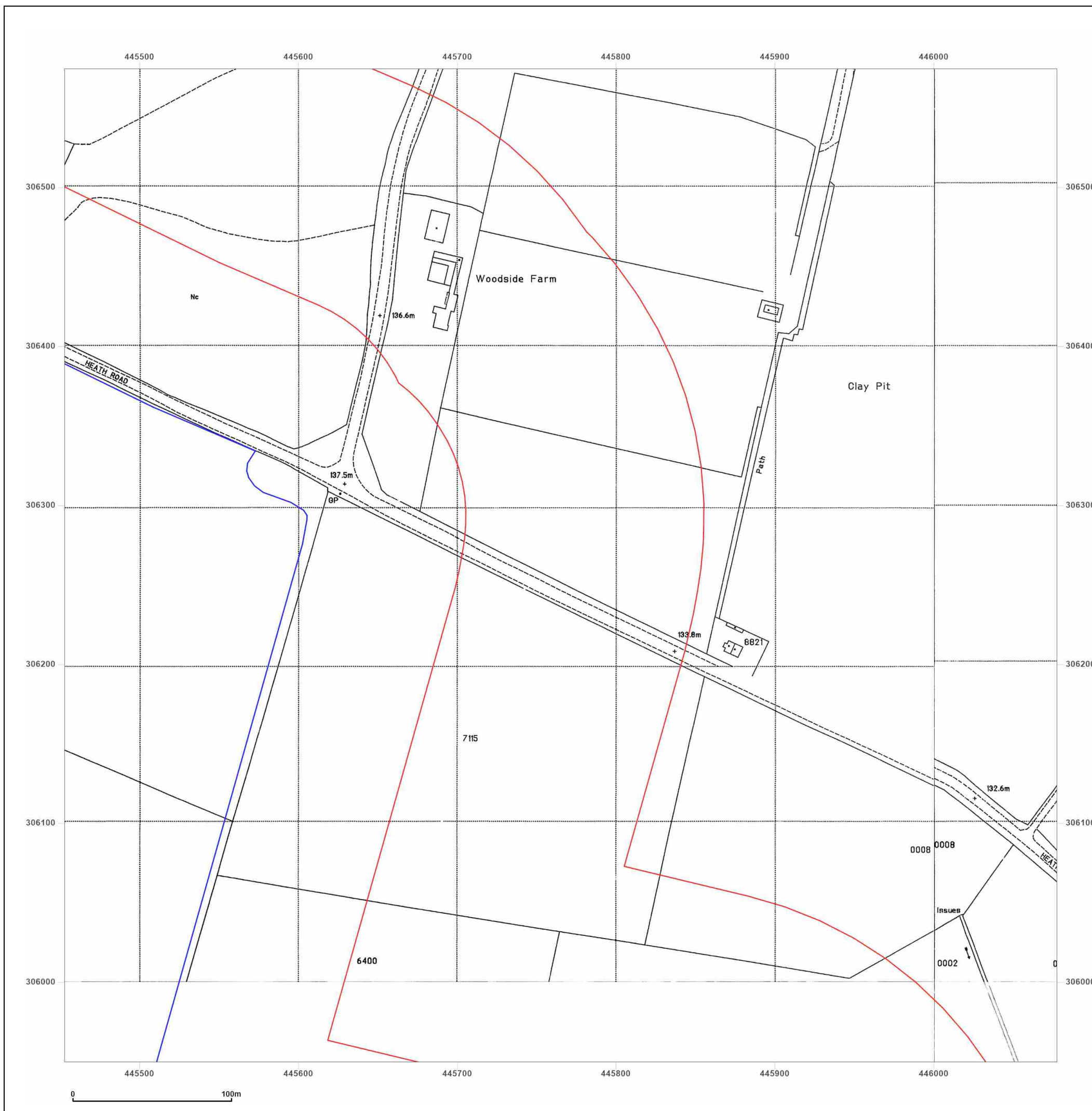


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Site Details:

Merrylees Road Solar Farm

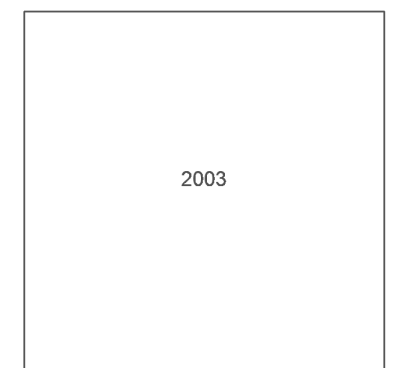
Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_Landline_1_1
Grid Ref: 445153, 305500

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250

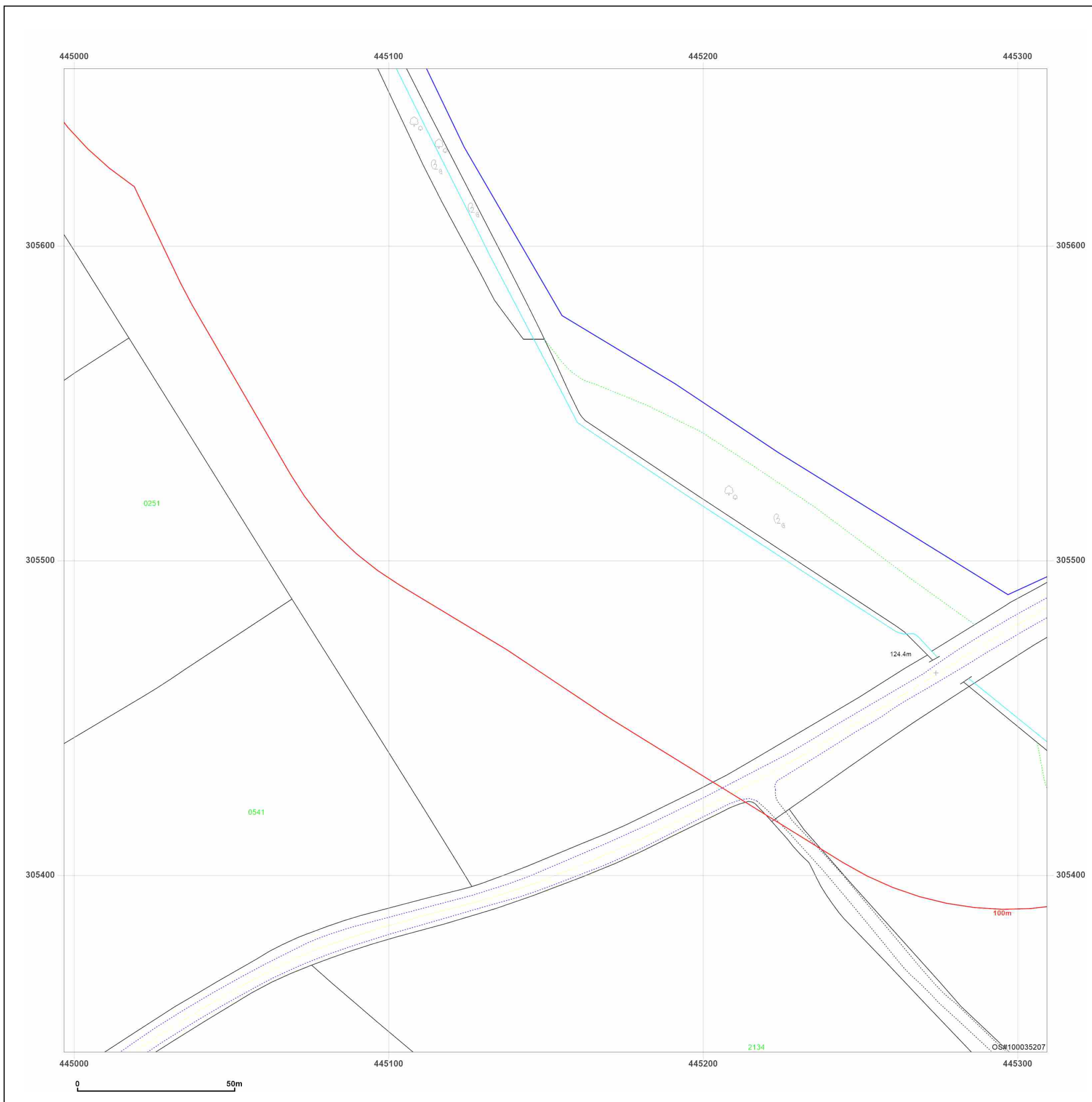


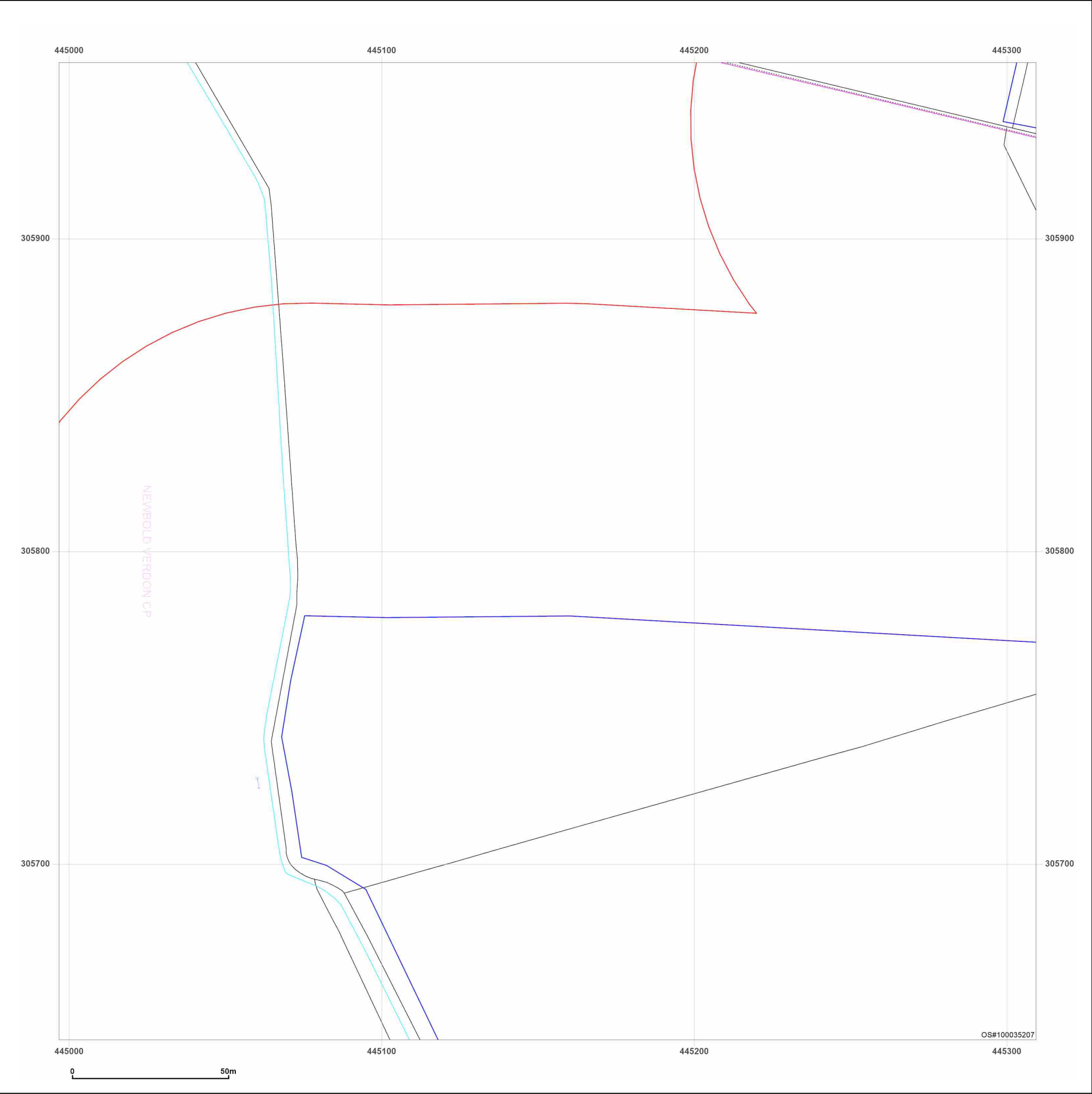
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Production date: 28 February 2025

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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_Landline_1_2
Grid Ref: 445153, 305800

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_Landline_1_3
Grid Ref: 445153, 306100

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



2003

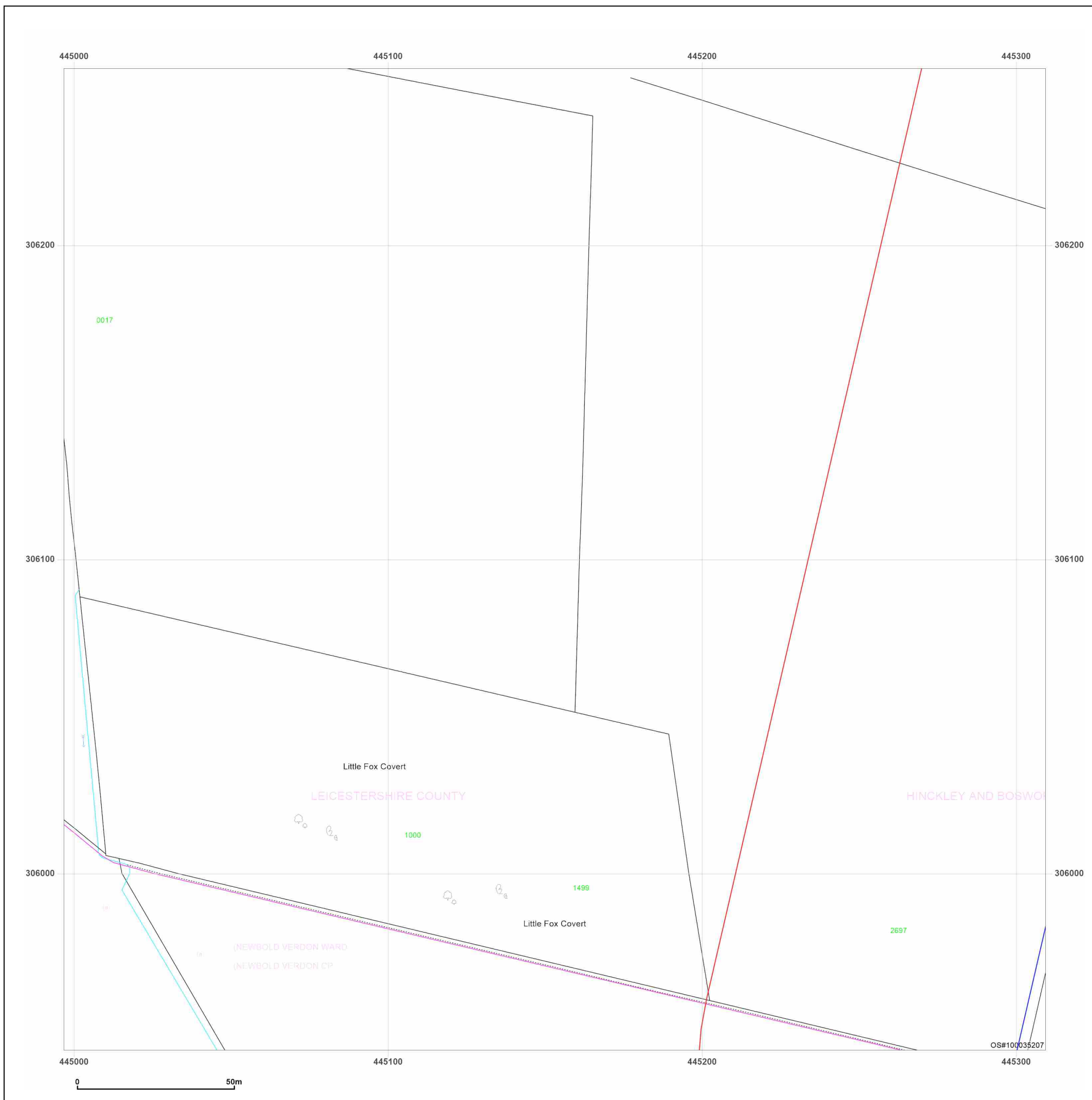


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_Landline_2_1
Grid Ref: 445453, 305500

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



2003

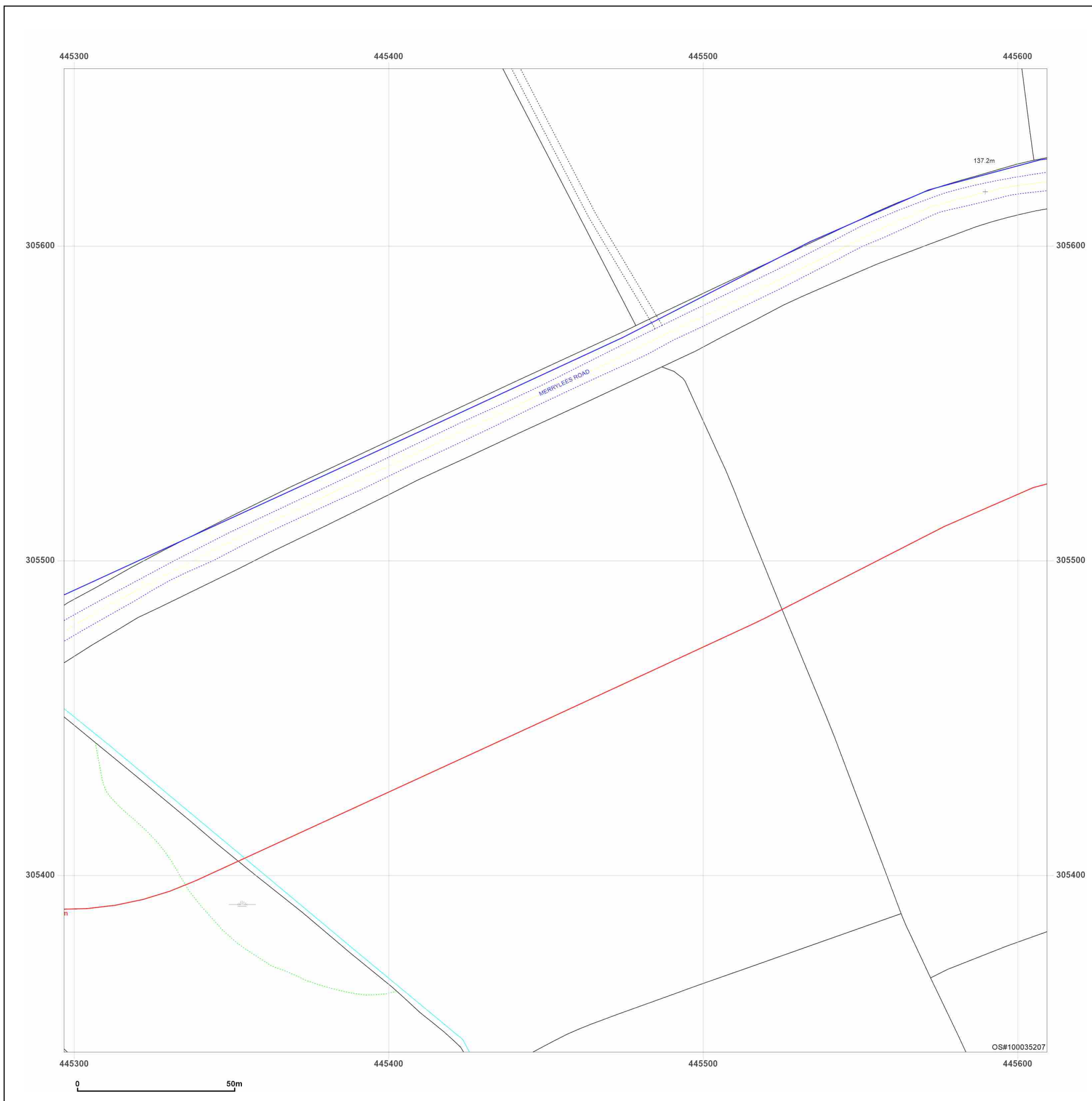


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_Landline_2_2
Grid Ref: 445453, 305800

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



2003

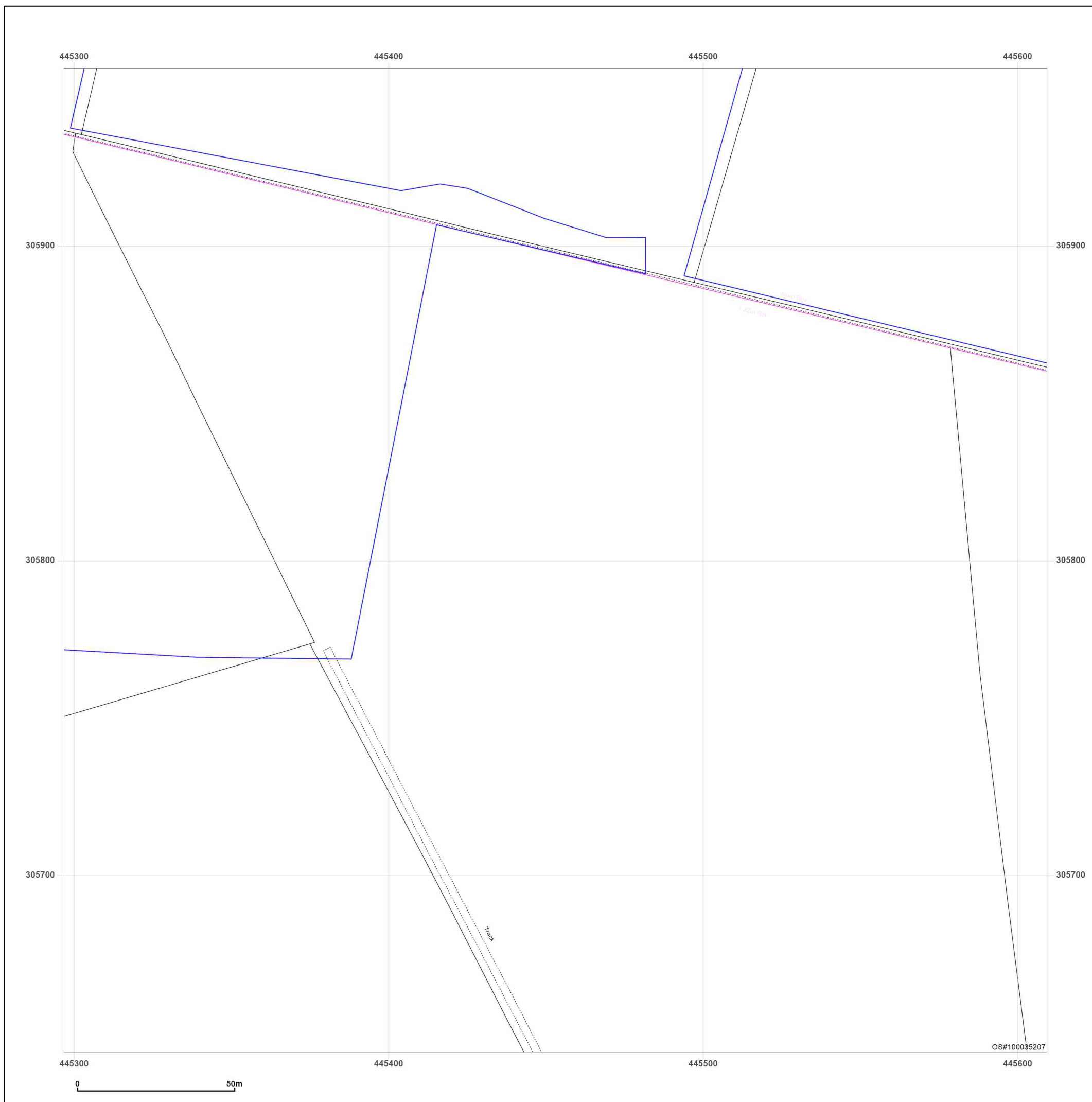


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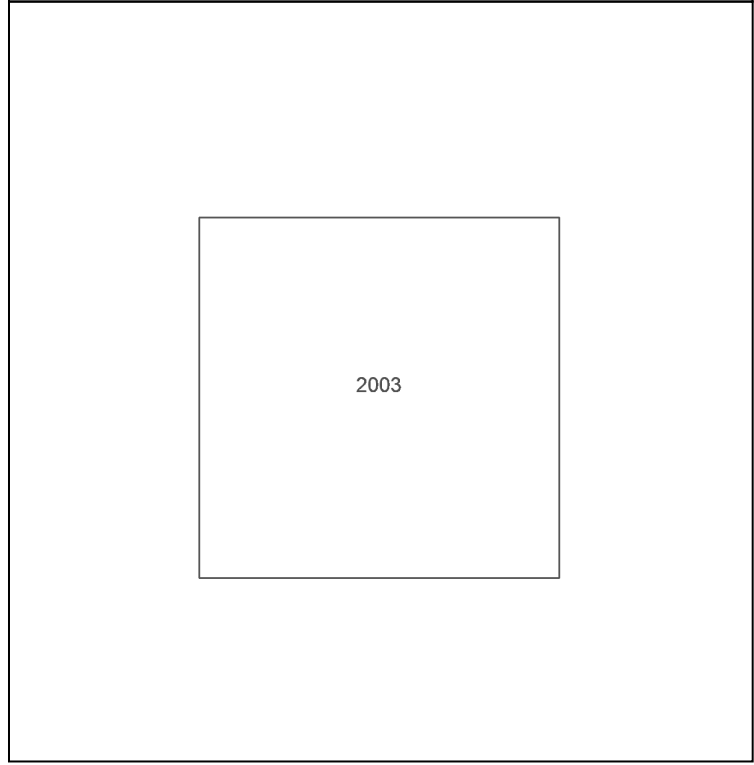
Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_Landline_2_3
Grid Ref: 445453, 306100

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





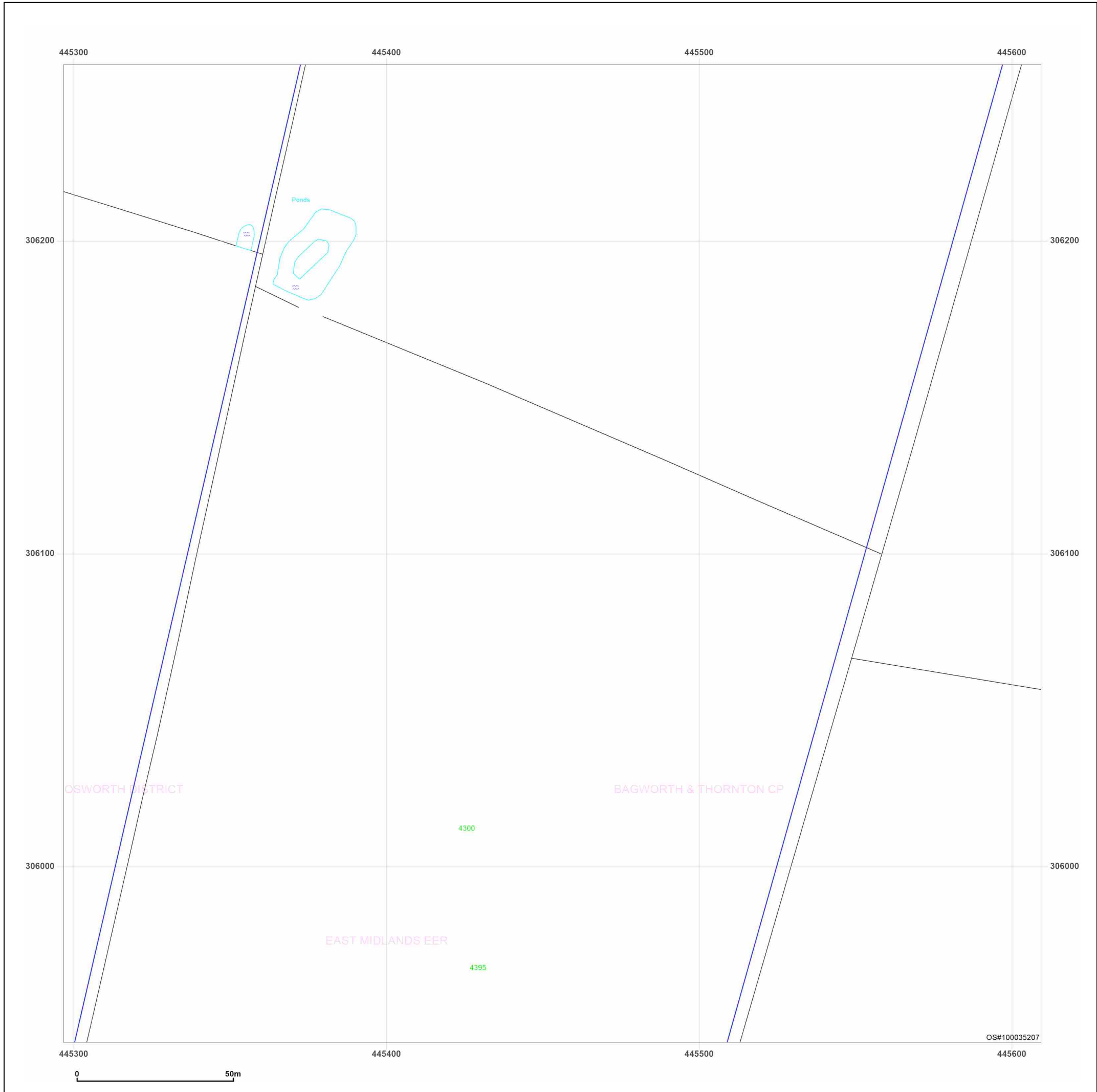


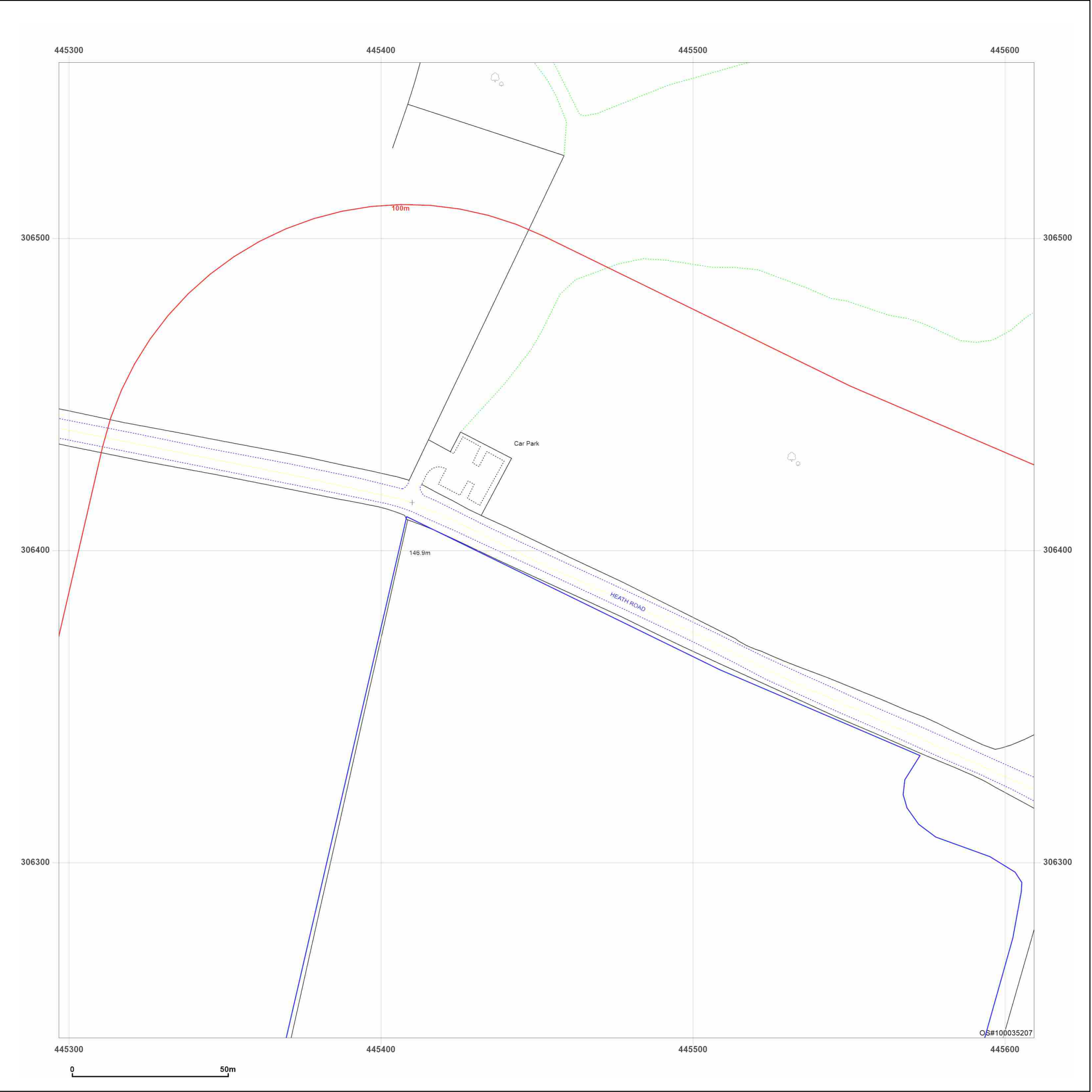
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Site Details:

Merrylees Road Solar Farm

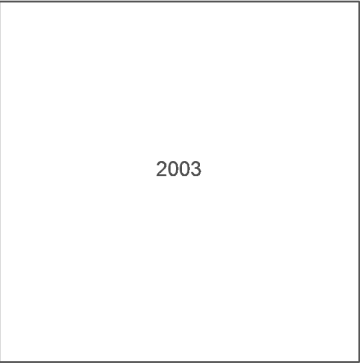
Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_Landline_2_4
Grid Ref: 445453, 306400

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU_Landline_3_1
Grid Ref: 445753, 305500

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



2003

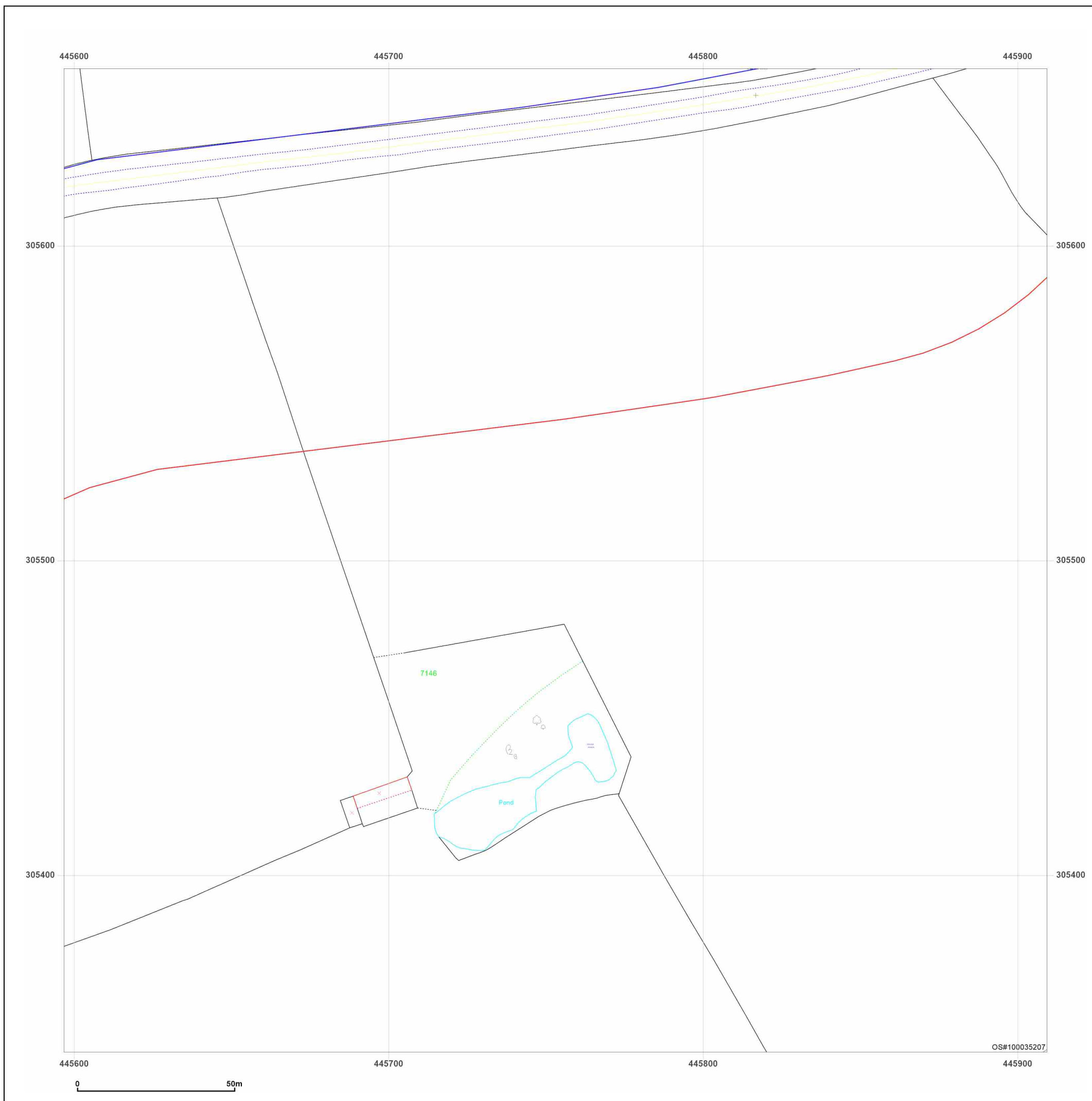


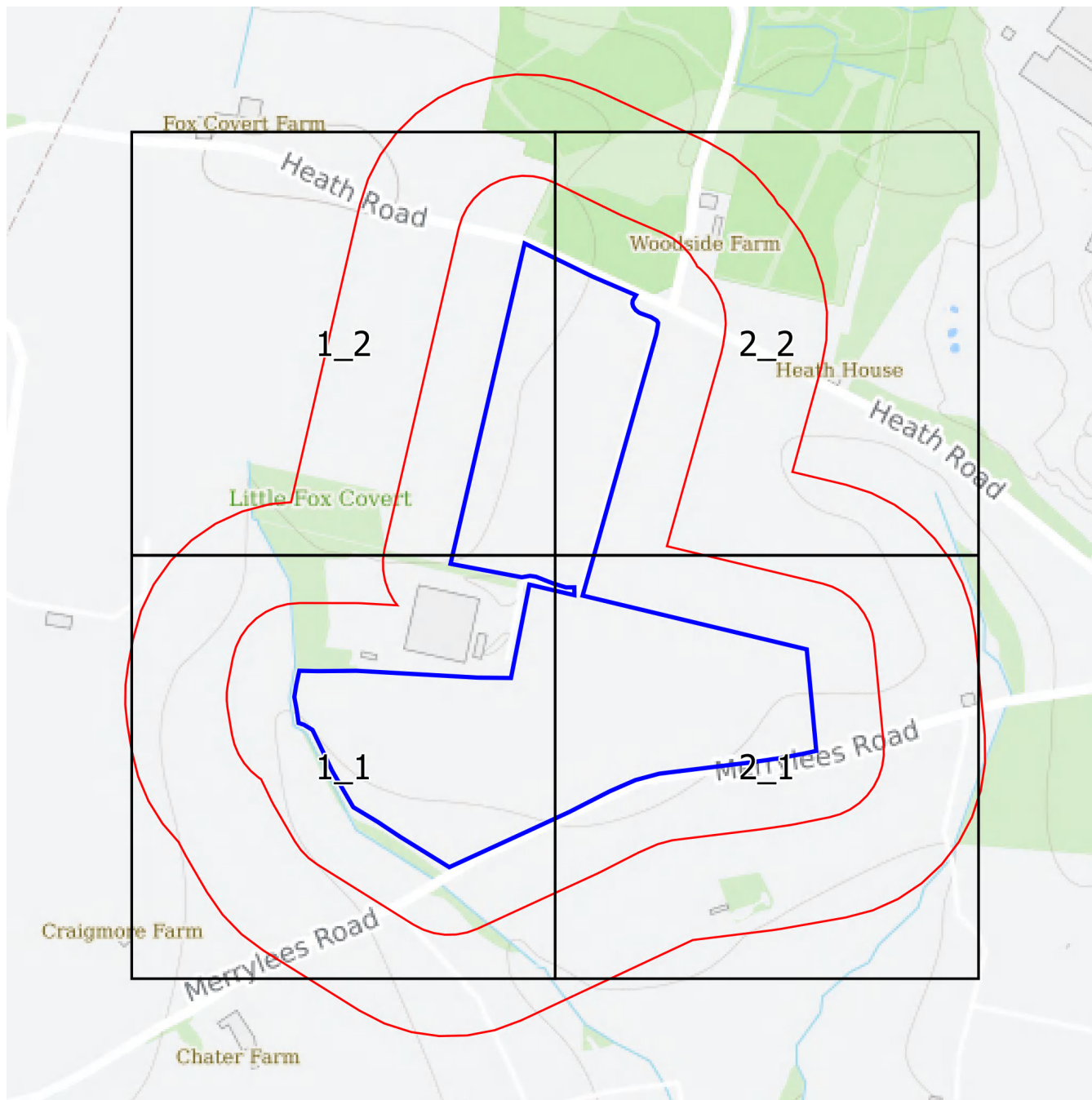
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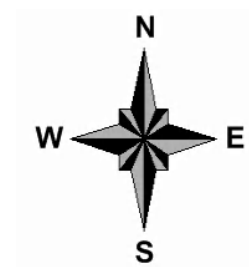
Map legend available at:
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INSIGHTS

1:2,500 Scale Grid Index



Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU
Grid Ref: 445453, 305950

Map Name: County Series

Map date: 1885

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1885
 Revised 1885
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1885
 Revised 1885
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1885
 Revised 1885
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1885
 Revised 1885
 Edition N/A
 Copyright N/A
 Levelled N/A

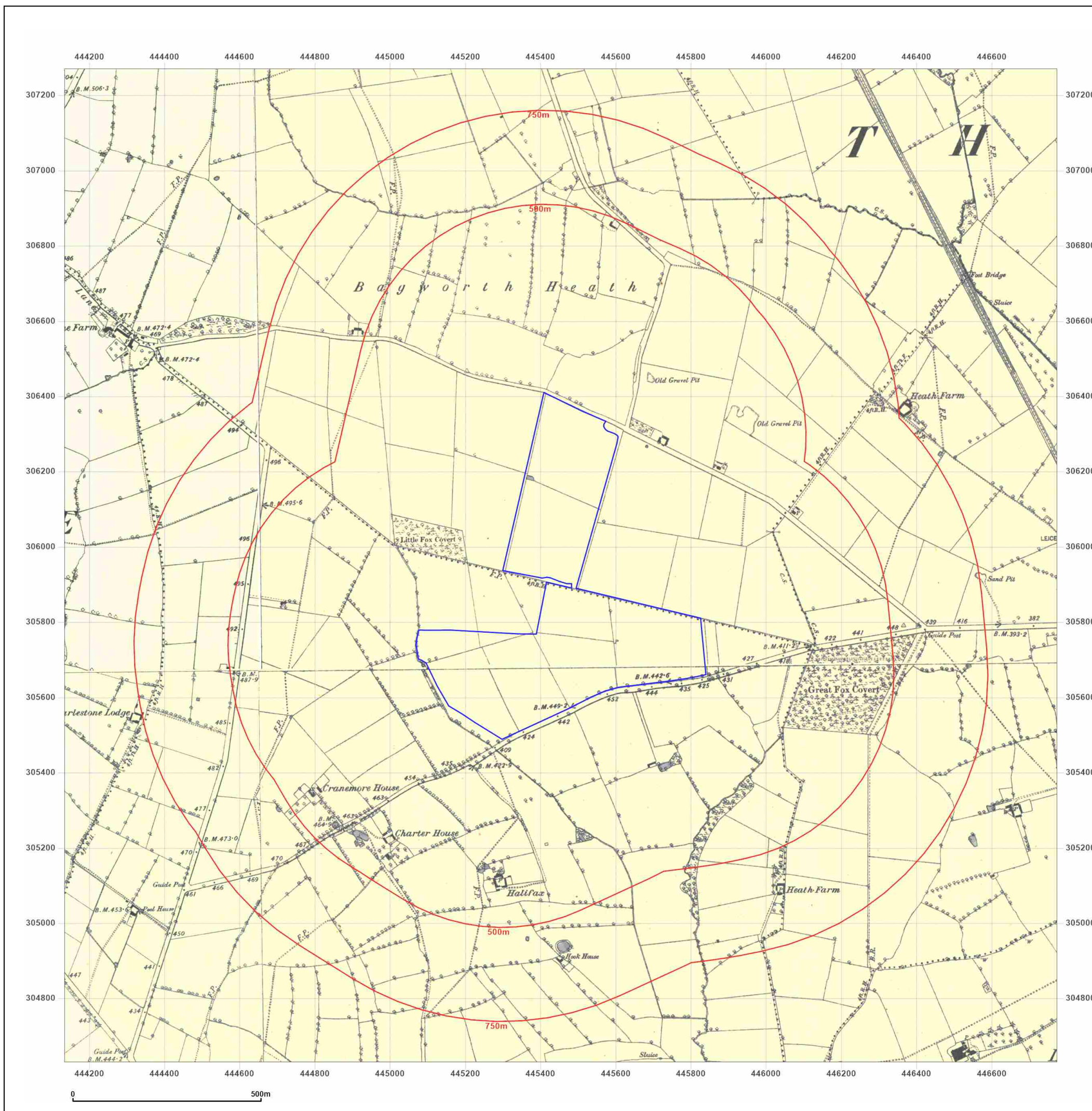


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU
Grid Ref: 445453, 305950

Map Name: County Series

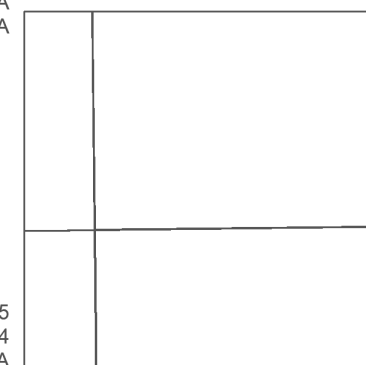
Map date: 1901-1904

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1885
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1885
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1885
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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Revised 1901
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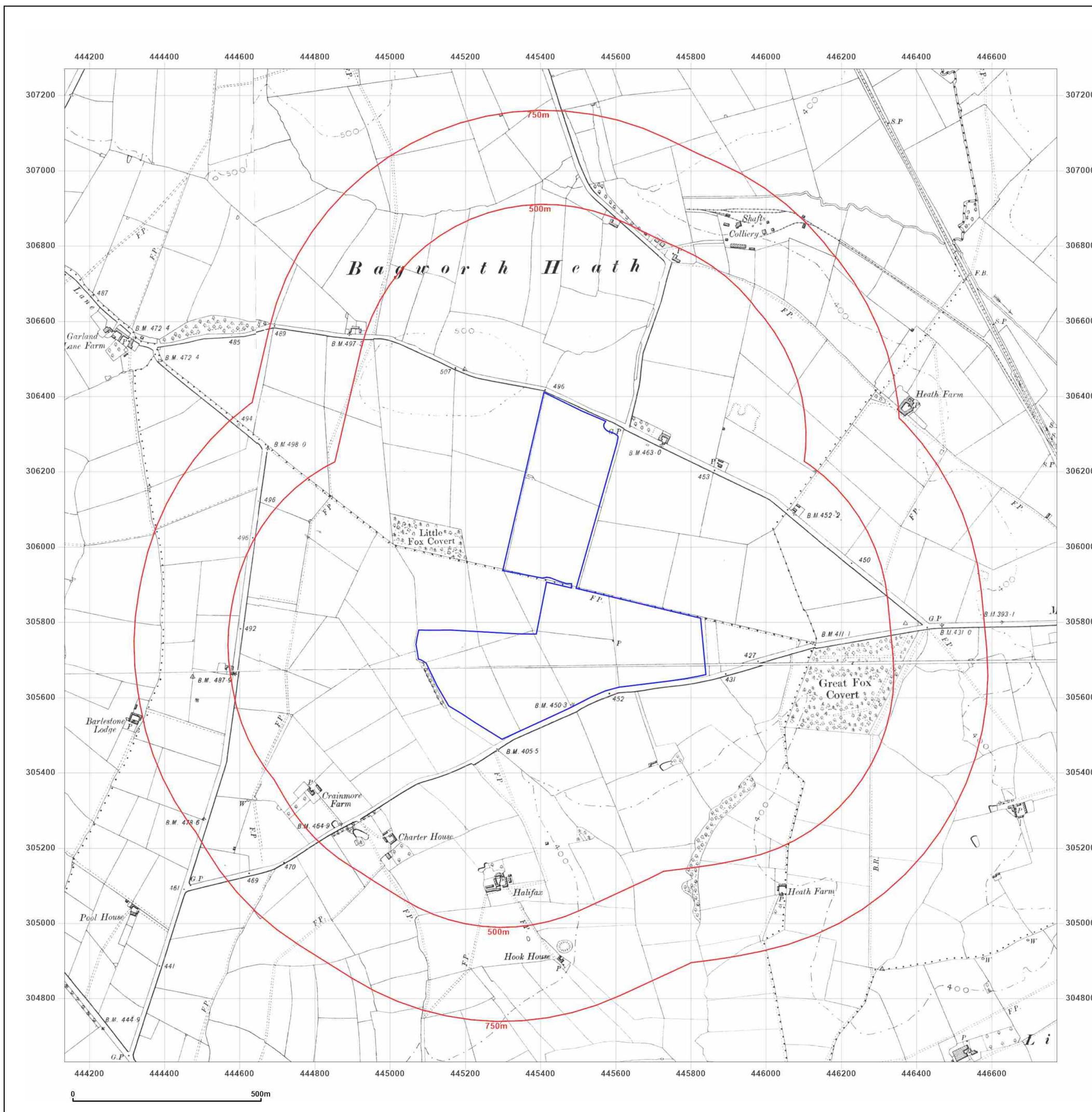


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU
Grid Ref: 445453, 305950

Map Name: County Series

Map date: 1919

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1884
Revised 1919
Edition N/A
Copyright N/A
Levelled N/A

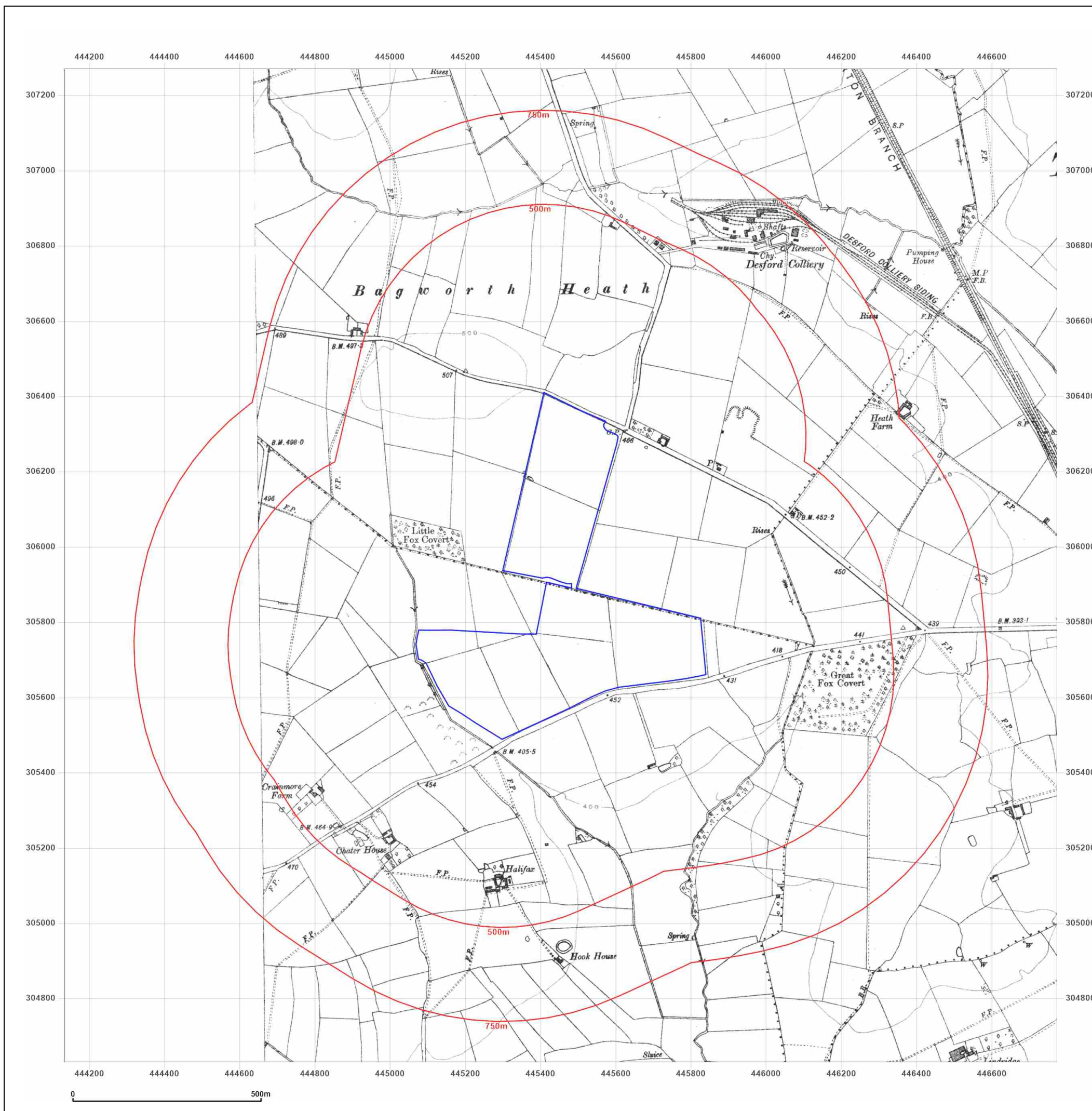


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU
Grid Ref: 445453, 305950

Map Name: County Series

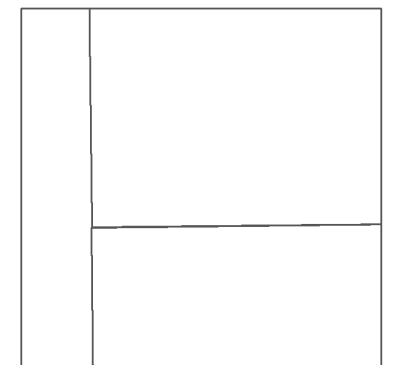
Map date: 1930-1931

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1884
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1884
Revised 1931
Edition N/A
Copyright N/A
Levelled N/A

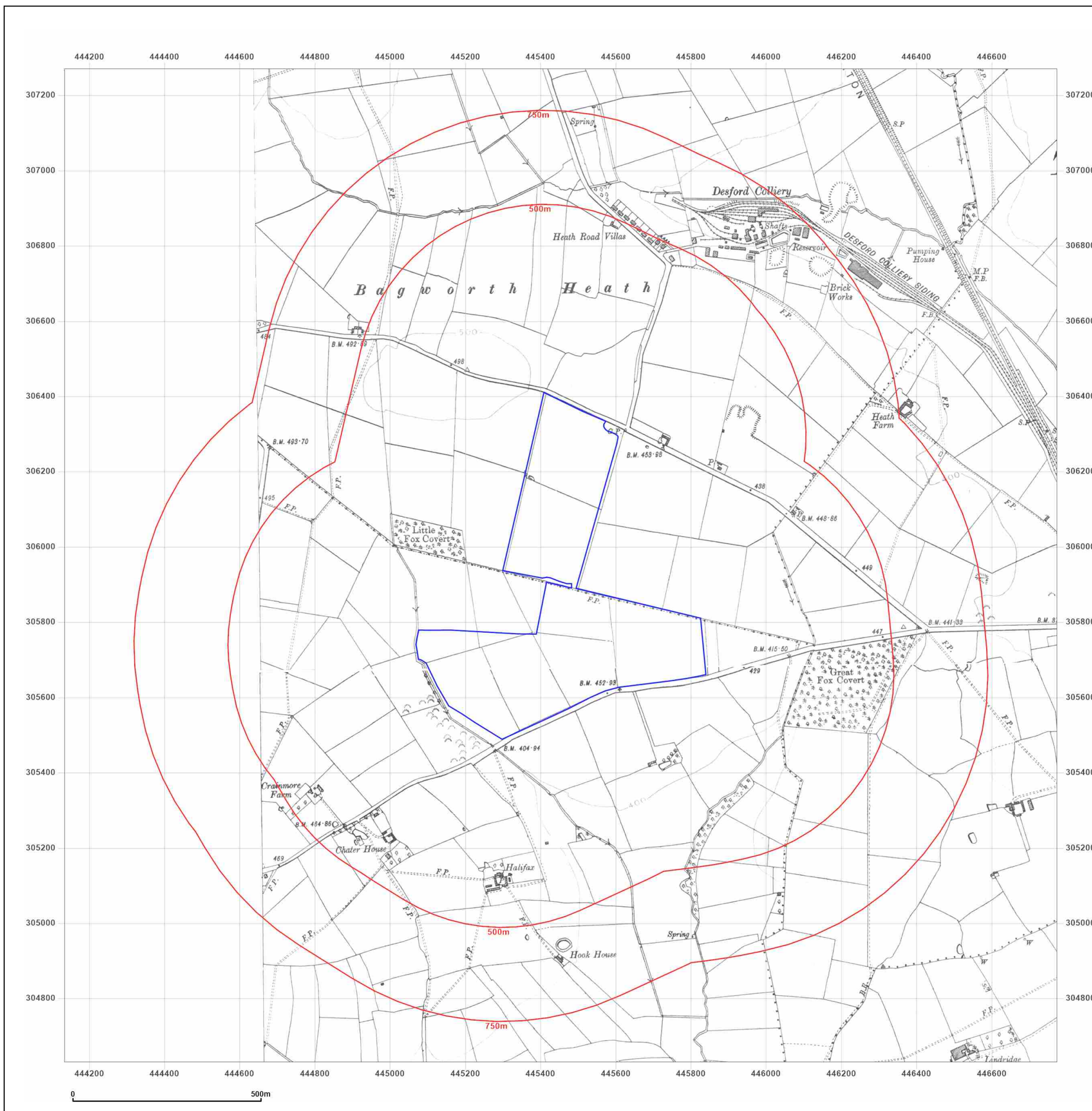


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU
Grid Ref: 445453, 305950

Map Name: Provisional

Map date: 1950-1955

Scale: 1:10,560

Printed at: 1:10,560



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

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

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

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

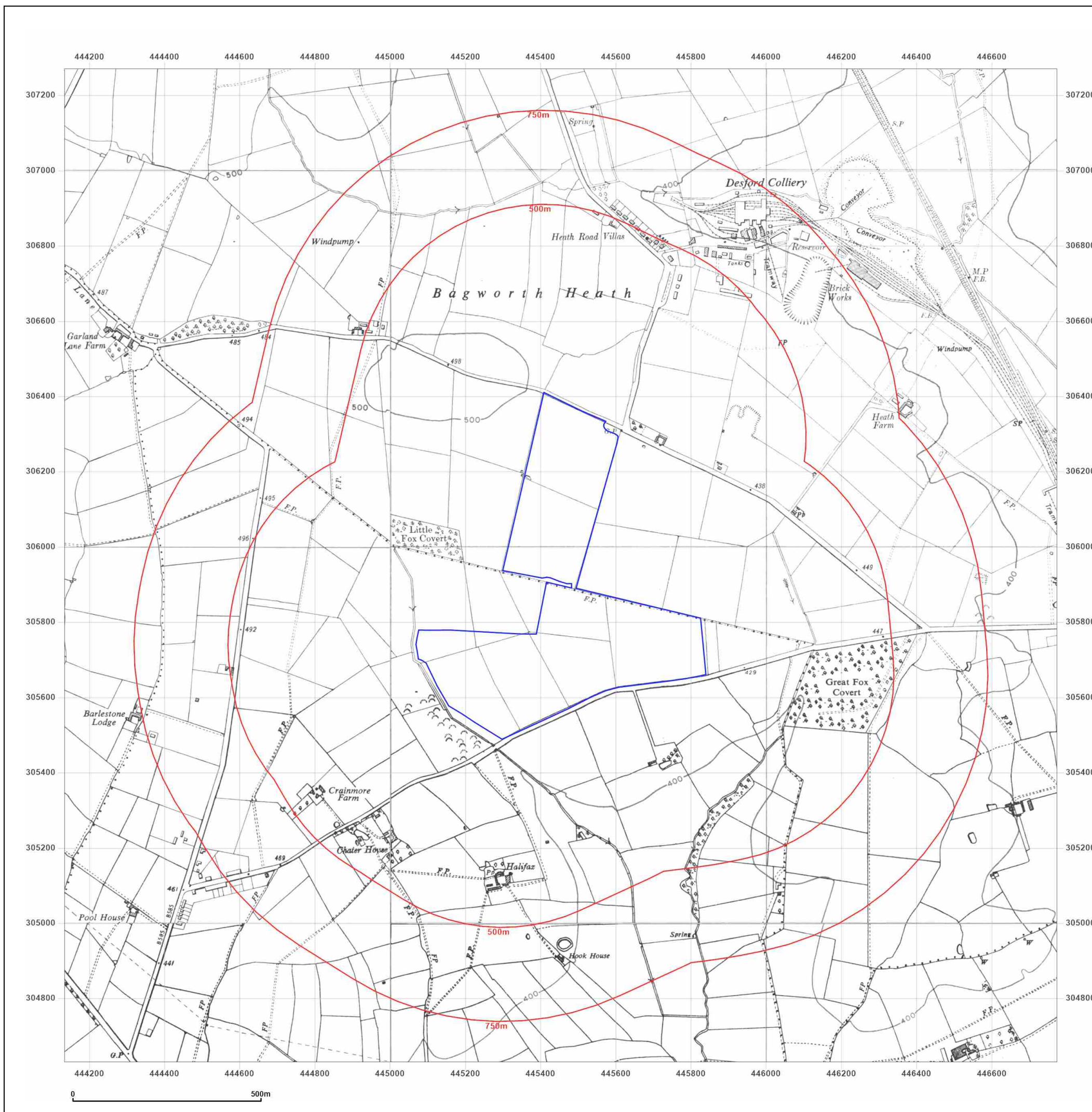


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU
Grid Ref: 445453, 305950

Map Name: Provisional

Map date: 1966-1968

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1966
Revised 1966
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1968
Revised 1968
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1966
Revised 1966
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1966
Revised 1966
Edition N/A
Copyright N/A
Levelled N/A

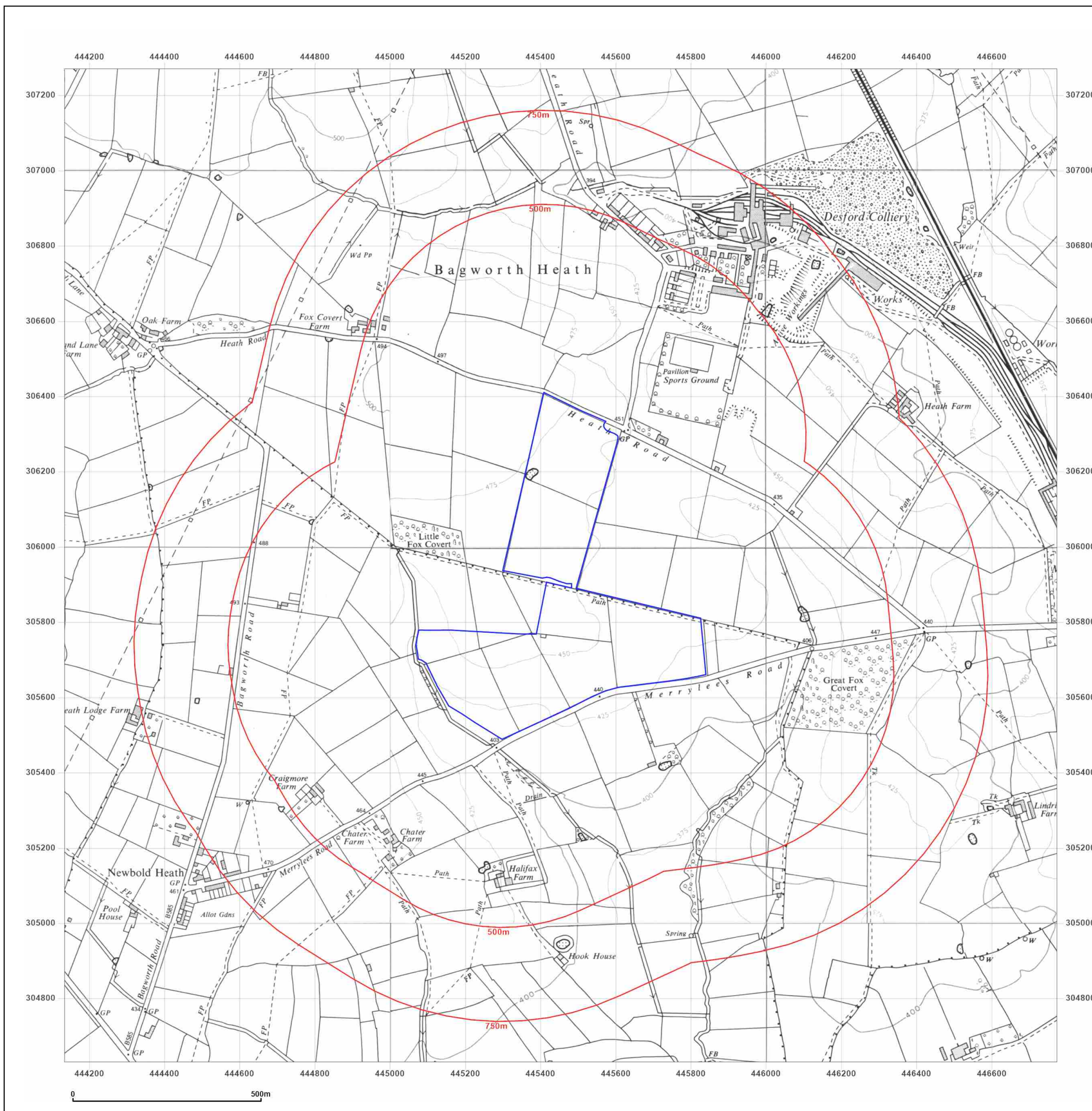


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Site Details:

Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU
Grid Ref: 445453, 305950

Map Name: National Grid

Map date: 1980-1984

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1977
Revised 1982
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1972
Revised 1984
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1976
Revised 1980
Edition N/A
Copyright N/A
Levelled N/A

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

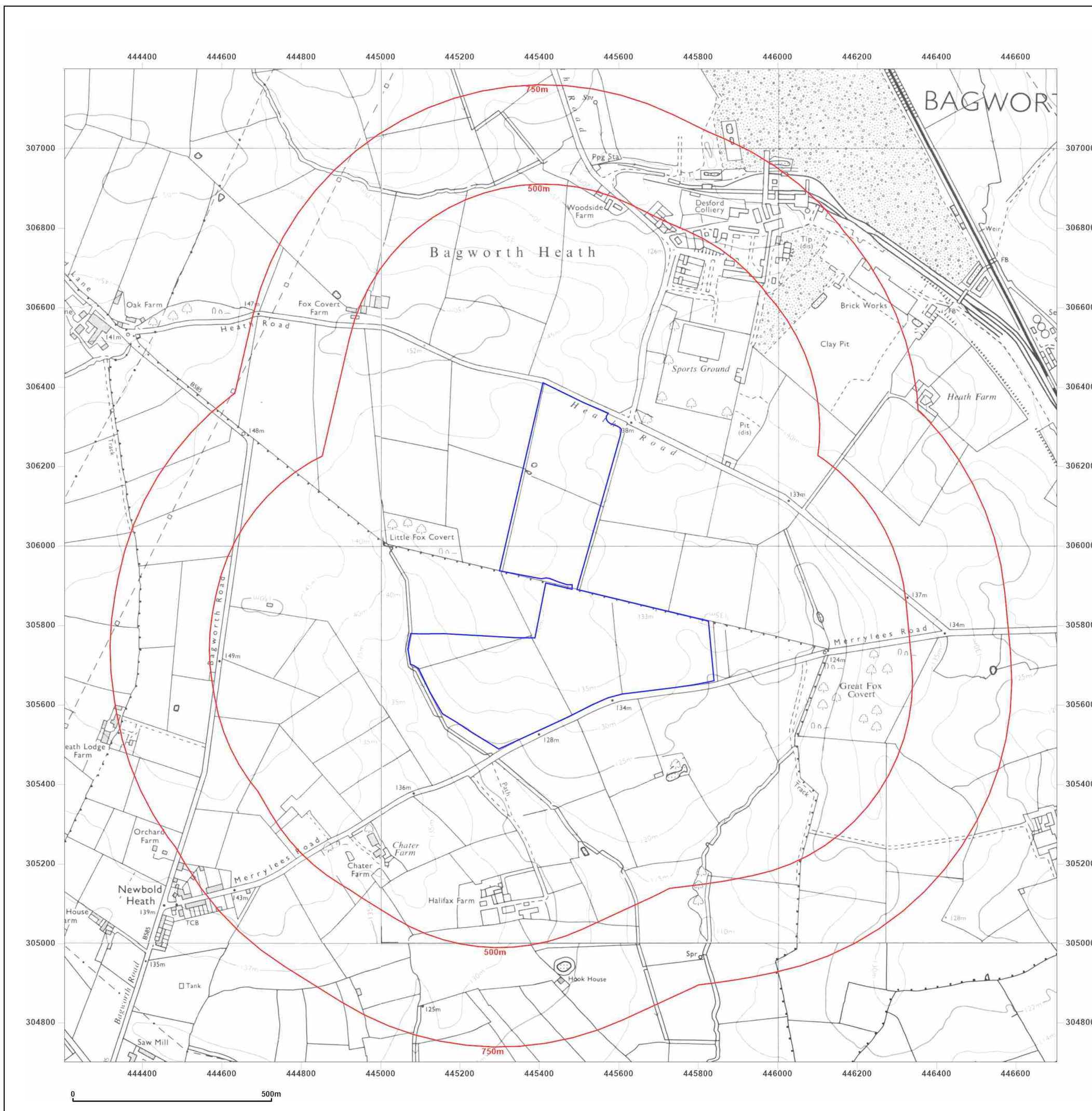


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Site Details:

Merrylees Road Solar Farm

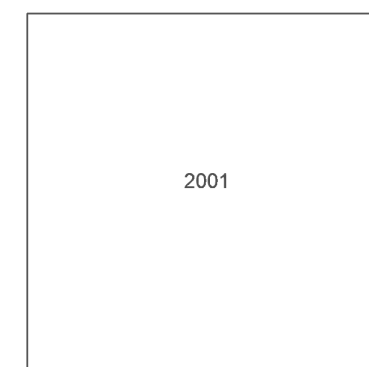
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Report Ref: GS-596-XDR-SLG-YFU
Grid Ref: 445453, 305950

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

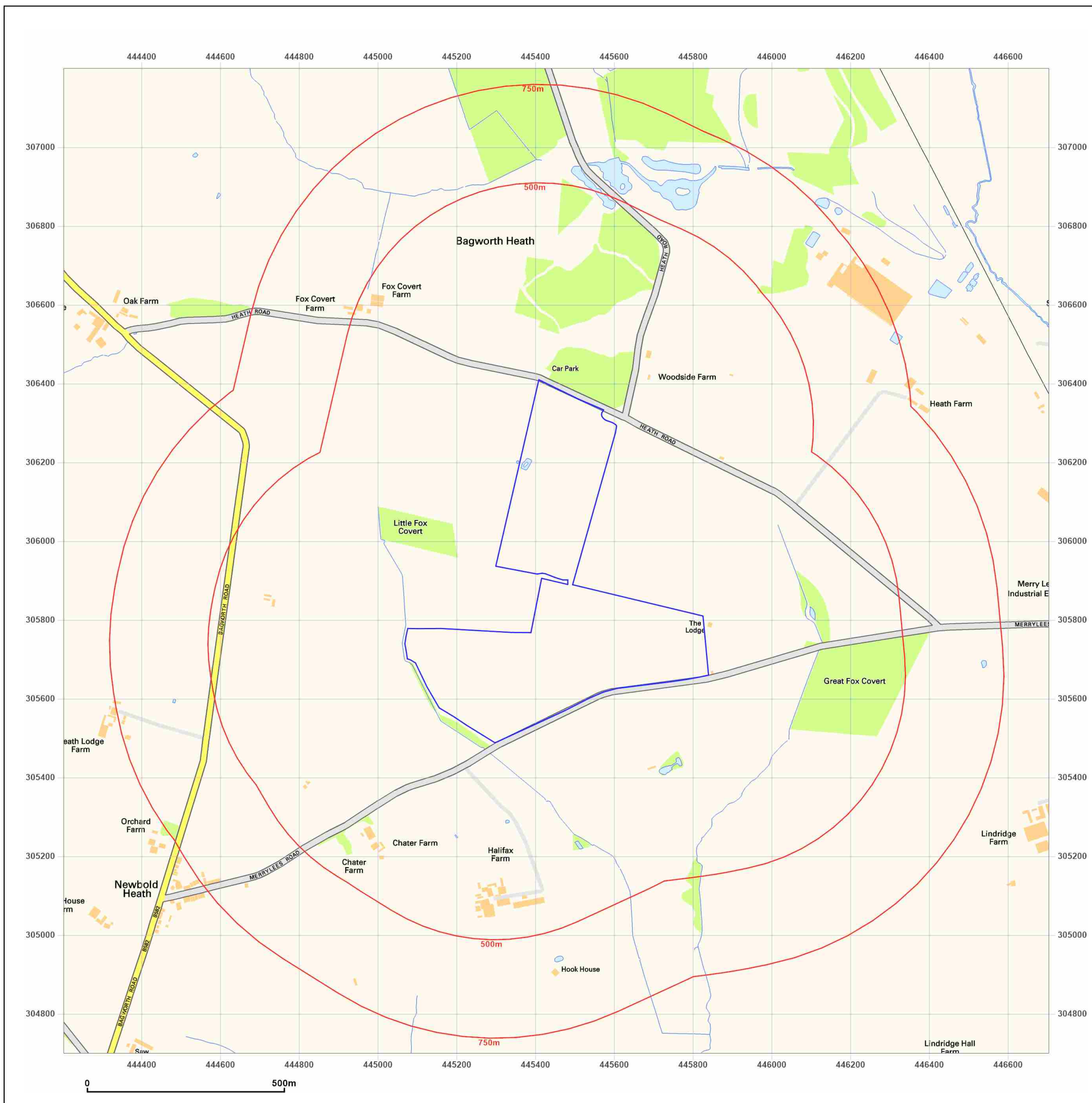


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Site Details:

Merrylees Road Solar Farm

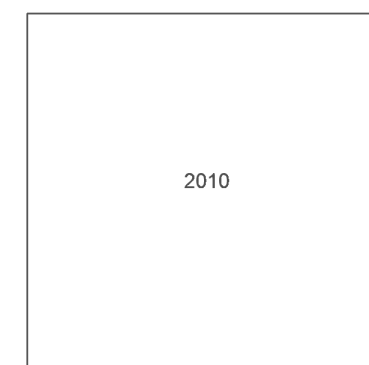
Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU
Grid Ref: 445453, 305950

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

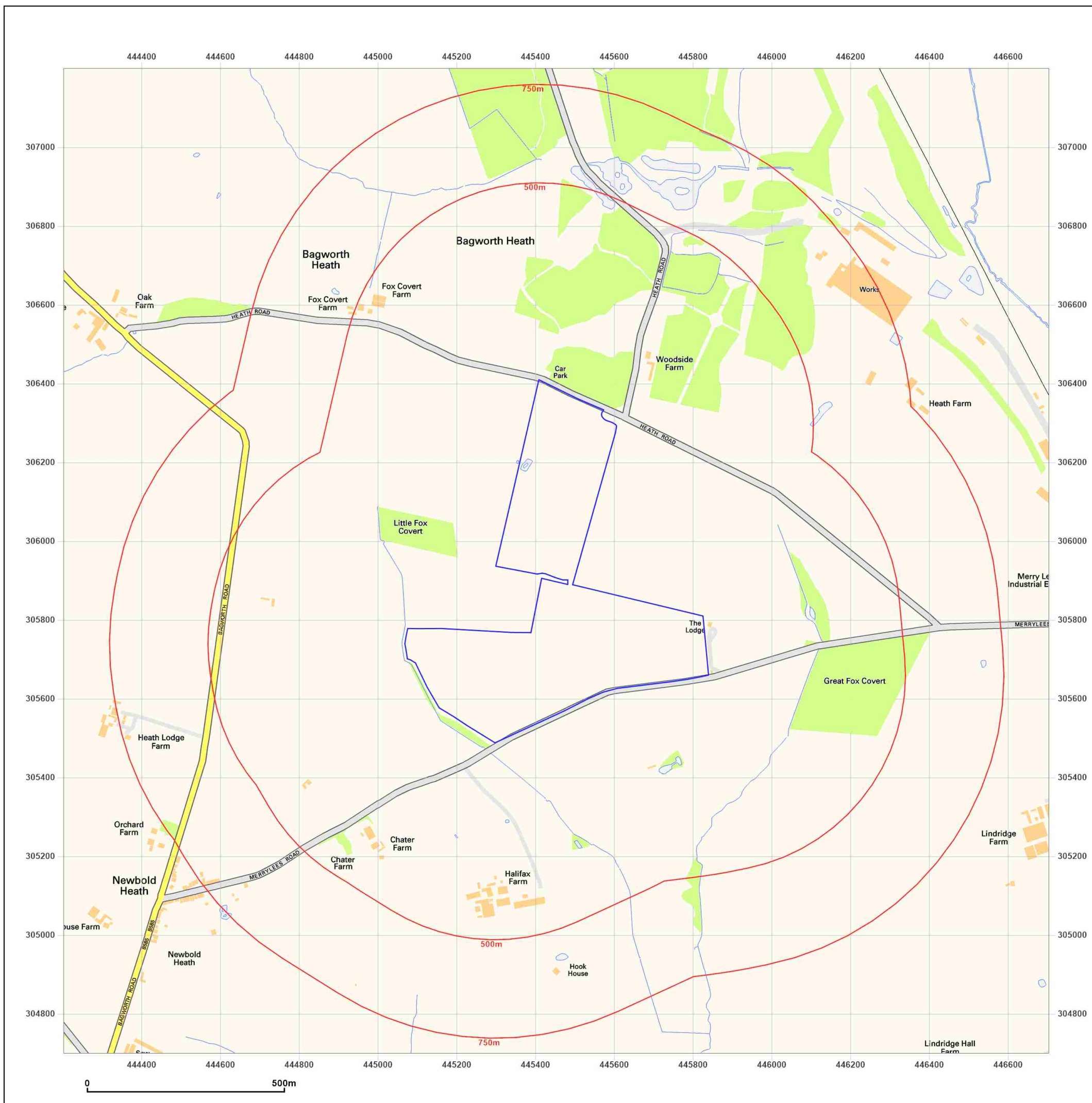


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Production date: 28 February 2025

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

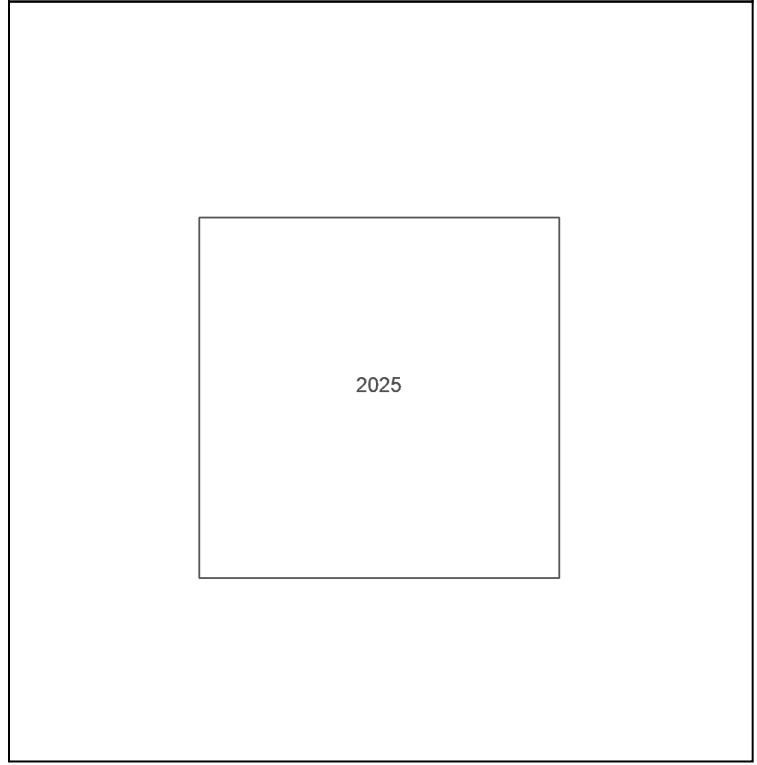


Site Details:
Merrylees Road Solar Farm

Client Ref: 255315 / 10823
Report Ref: GS-596-XDR-SLG-YFU
Grid Ref: 445453, 305950

Map Name: National Grid
Map date: 2025
Scale: 1:10,000
Printed at: 1:10,000



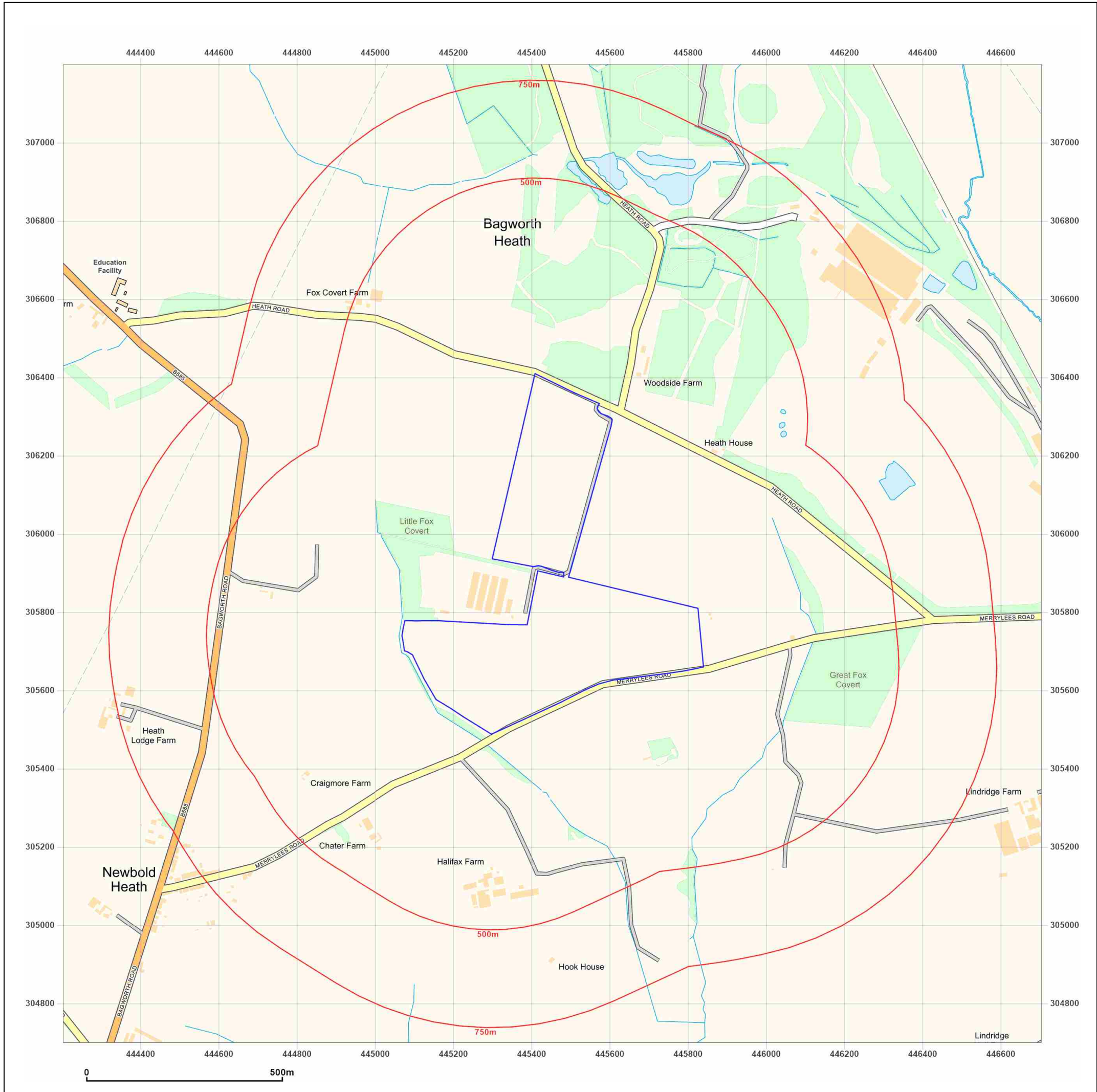


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Production date: 28 February 2025

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



Merrylees Road Solar Farm

Order Details

Date: 28/02/2025
Your ref: 255315 / 10823
Our Ref: GS-5G1-AIU-OE3-BDA

Site Details

Location: 445452 305858
Area: 27.36 ha
Authority: [Hinckley and Bosworth Borough Council](#) ↗



[Summary of findings](#)

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

[p. 9 >](#)

[OS MasterMap site plan](#)

[N/A: >10ha](#) [Insight User Guide](#) ↗

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Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	0	0	1	10	-
15	1.2	Historical tanks	0	0	0	0	-
15	1.3	Historical energy features	0	0	0	0	-
16	1.4	Historical petrol stations	0	0	0	0	-
16	1.5	Historical garages	0	0	0	0	-
16	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
17 >	2.1 >	Historical industrial land uses >	0	0	1	13	-
18	2.2	Historical tanks	0	0	0	0	-
18	2.3	Historical energy features	0	0	0	0	-
19	2.4	Historical petrol stations	0	0	0	0	-
19	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
20	3.1	Active or recent landfill	0	0	0	0	-
20	3.2	Historical landfill (BGS records)	0	0	0	0	-
21	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
21 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	1	-
21	3.5	Historical waste sites	0	0	0	0	-
21	3.6	Licensed waste sites	0	0	0	0	-
22 >	3.7 >	Waste exemptions >	0	2	12	31	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
26 >	4.1 >	Recent industrial land uses >	0	3	0	-	-
27	4.2	Current or recent petrol stations	0	0	0	0	-
27	4.3	Electricity cables	0	0	0	0	-
27	4.4	Gas pipelines	0	0	0	0	-
27	4.5	Sites determined as Contaminated Land	0	0	0	0	-



28	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
28	4.7	Regulated explosive sites	0	0	0	0	-
28	4.8	Hazardous substance storage/usage	0	0	0	0	-
28	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
28 >	4.10 >	Licensed industrial activities (Part A(1)) >	0	2	0	0	-
29	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
29	4.12	Radioactive Substance Authorisations	0	0	0	0	-
29 >	4.13 >	Licensed Discharges to controlled waters >	0	0	0	1	-
30	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
30	4.15	Pollutant release to public sewer	0	0	0	0	-
30	4.16	List 1 Dangerous Substances	0	0	0	0	-
30	4.17	List 2 Dangerous Substances	0	0	0	0	-
31	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
31 >	4.19 >	Pollution inventory substances >	0	3	0	0	-
32 >	4.20 >	Pollution inventory waste transfers >	0	1	0	0	-
33	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
34 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
36 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
38 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
40	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
40	5.5	Groundwater vulnerability- local information	None (within 0m)				
41 >	5.6 >	Groundwater abstractions >	0	0	0	0	2
42	5.7	Surface water abstractions	0	0	0	0	0
42	5.8	Potable abstractions	0	0	0	0	0
43	5.9	Source Protection Zones	0	0	0	0	-
43	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
44 >	6.1 >	Water Network (OS MasterMap) >	0	3	5	-	-



45 >	6.2 >	Surface water features >	0	2	3	-	-
45 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
46 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
46 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
47	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
47	7.2	Historical Flood Events	0	0	0	-	-
47	7.3	Flood Defences	0	0	0	-	-
48	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
48	7.5	Flood Storage Areas	0	0	0	-	-
49	7.6	Flood Zone 2	None (within 50m)				
49	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
50 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
52 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
53	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
54	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
54	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
54	10.4	Special Protection Areas (SPA)	0	0	0	0	0
54	10.5	National Nature Reserves (NNR)	0	0	0	0	0
55	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
55 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	1
55	10.8	Biosphere Reserves	0	0	0	0	0
55	10.9	Forest Parks	0	0	0	0	0
56	10.10	Marine Conservation Zones	0	0	0	0	0
56	10.11	Green Belt	0	0	0	0	0
56	10.12	Proposed Ramsar sites	0	0	0	0	0



56	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
56	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
57	10.15	Nitrate Sensitive Areas	0	0	0	0	0
57 >	10.16 >	Nitrate Vulnerable Zones >	2	0	0	2	5
58 >	10.17 >	SSSI Impact Risk Zones >	2	-	-	-	-
59	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
60	11.1	World Heritage Sites	0	0	0	-	-
60	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
60	11.3	National Parks	0	0	0	-	-
60	11.4	Listed Buildings	0	0	0	-	-
61	11.5	Conservation Areas	0	0	0	-	-
61	11.6	Scheduled Ancient Monuments	0	0	0	-	-
61	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
62 >	12.1 >	Agricultural Land Classification >	Grade 3 (within 250m)				
63	12.2	Open Access Land	0	0	0	-	-
63	12.3	Tree Felling Licences	0	0	0	-	-
63	12.4	Environmental Stewardship Schemes	0	0	0	-	-
63 >	12.5 >	Countryside Stewardship Schemes >	0	1	1	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
64 >	13.1 >	Priority Habitat Inventory >	0	1	6	-	-
65	13.2	Habitat Networks	0	0	0	-	-
65	13.3	Open Mosaic Habitat	0	0	0	-	-
65	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
66 >	14.1 >	10k Availability >	Identified (within 500m)				
67 >	14.2 >	Artificial and made ground (10k) >	0	0	1	3	-
69 >	14.3 >	Superficial geology (10k) >	4	1	4	5	-



70	14.4	Landslip (10k)	0	0	0	0	-
71 >	14.5 >	Bedrock geology (10k) >	3	0	1	8	-
72	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
73 >	15.1 >	50k Availability >	Identified (within 500m)				
74 >	15.2 >	Artificial and made ground (50k) >	0	0	1	3	-
75	15.3	Artificial ground permeability (50k)	0	0	-	-	-
76 >	15.4 >	Superficial geology (50k) >	4	0	2	1	-
77 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
77	15.6	Landslip (50k)	0	0	0	0	-
77	15.7	Landslip permeability (50k)	None (within 50m)				
78 >	15.8 >	Bedrock geology (50k) >	2	1	0	7	-
79 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
79	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
80 >	16.1 >	BGS Boreholes >	3	0	1	-	-
Page	Section	Natural ground subsidence >					
82 >	17.1 >	Shrink swell clays >	Low (within 50m)				
84 >	17.2 >	Running sands >	Very low (within 50m)				
86 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
87 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
88 >	17.5 >	Landslides >	Very low (within 50m)				
89 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
91 >	18.1 >	BritPits >	0	0	1	1	-
92 >	18.2 >	Surface ground workings >	2	0	9	-	-
93 >	18.3 >	Underground workings >	0	0	0	3	12
93	18.4	Underground mining extents	0	0	0	0	-
94	18.5	Historical Mineral Planning Areas	0	0	0	0	-



94	18.6	Non-coal mining	0	0	0	0	0
94 >	18.7 >	JPB mining areas >	Identified (within 0m)				
94	18.8	The Coal Authority non-coal mining	0	0	0	0	-
95	18.9	Researched mining	0	0	0	0	-
95	18.10	Mining record office plans	0	0	0	0	-
95	18.11	BGS mine plans	0	0	0	0	-
95 >	18.12 >	Coal mining >	Identified (within 0m)				
96	18.13	Brine areas	None (within 0m)				
96	18.14	Gypsum areas	None (within 0m)				
96	18.15	Tin mining	None (within 0m)				
96	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
97	19.1	Natural cavities	0	0	0	0	-
97	19.2	Mining cavities	0	0	0	0	0
97	19.3	Reported recent incidents	0	0	0	0	-
97	19.4	Historical incidents	0	0	0	0	-
Page	Section	Radon >					
99 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
101 >	21.1 >	BGS Estimated Background Soil Chemistry >	20	4	-	-	-
102	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
102	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
103	22.1	Underground railways (London)	0	0	0	-	-
103	22.2	Underground railways (Non-London)	0	0	0	-	-
103	22.3	Railway tunnels	0	0	0	-	-
103	22.4	Historical railway and tunnel features	0	0	0	-	-
103	22.5	Royal Mail tunnels	0	0	0	-	-
104	22.6	Historical railways	0	0	0	-	-



104	22.7	Railways	0	0	0	-	-
104	22.8	Crossrail 2	0	0	0	0	-
104	22.9	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 11/07/2022

Site Area: 27.36ha



Contact us with any questions at:

info@groundsure.com ↗

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Date: 28 February 2025

Recent site history - 2019 aerial photograph



Capture Date: 20/04/2019

Site Area: 27.36ha



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Date: 28 February 2025

Recent site history - 2011 aerial photograph



Capture Date: 09/10/2011

Site Area: 27.36ha



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01273 257 755

Date: 28 February 2025

Recent site history - 2000 aerial photograph



Capture Date: 17/06/2000

Site Area: 27.36ha



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01273 257 755

Date: 28 February 2025

Recent site history - 1999 aerial photograph



Capture Date: 06/11/1999

Site Area: 27.36ha



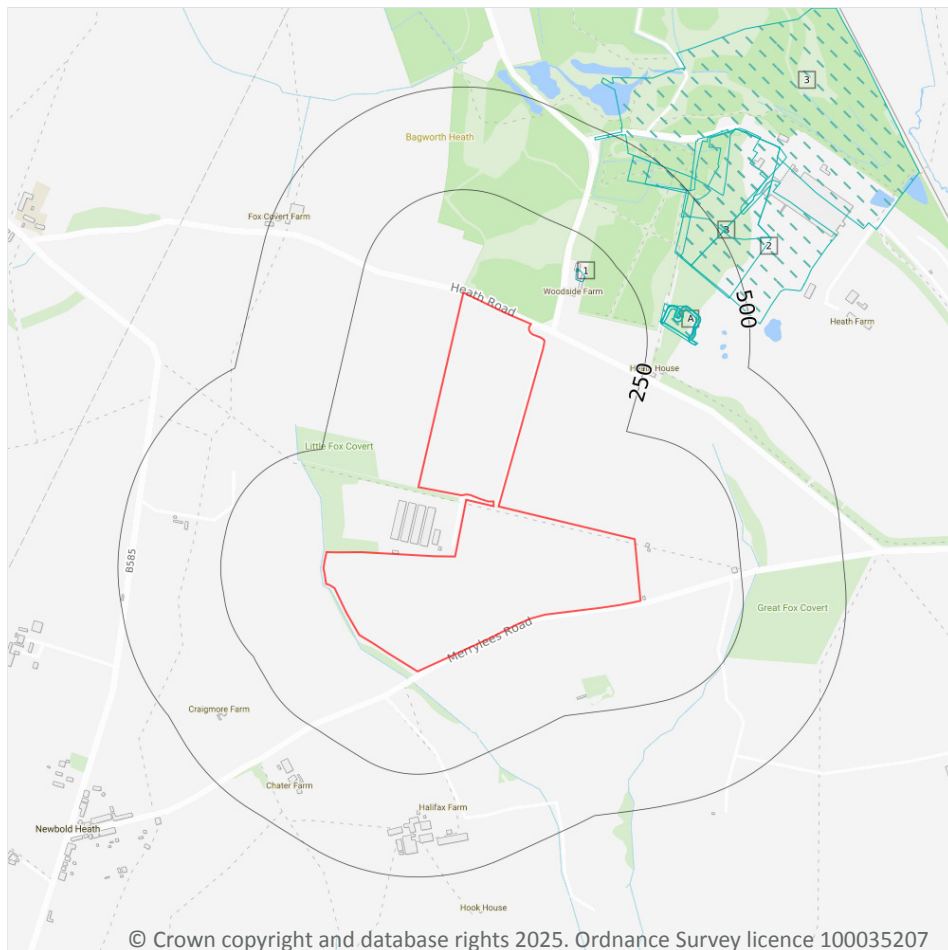
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Date: 28 February 2025

1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

11

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

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
1	154m N	Old Gravel Pit	1885	1616727



ID	Location	Land use	Dates present	Group ID
A	286m NE	Old Gravel Pit	1885	1616728
A	286m NE	Unspecified Pit	1901 - 1919	1643046
A	286m NE	Unspecified Disused Pit	1984	1634522
A	287m NE	Unspecified Ground Workings	1950 - 1968	1762475
A	287m NE	Unspecified Ground Workings	1930	1721299
B	383m NE	Brick Works	1950	1596835
B	390m NE	Unspecified Disused Tip	1984	1636182
2	402m NE	Clay Pit	1984	1608920
3	439m NE	Colliery	1950 - 1968	1772660
B	448m NE	Unspecified Workings	1968	1599235

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

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

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'.

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

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

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

This data is sourced from Ordnance Survey / Groundsure.



1.4 Historical petrol stations

Records within 500m**0**

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

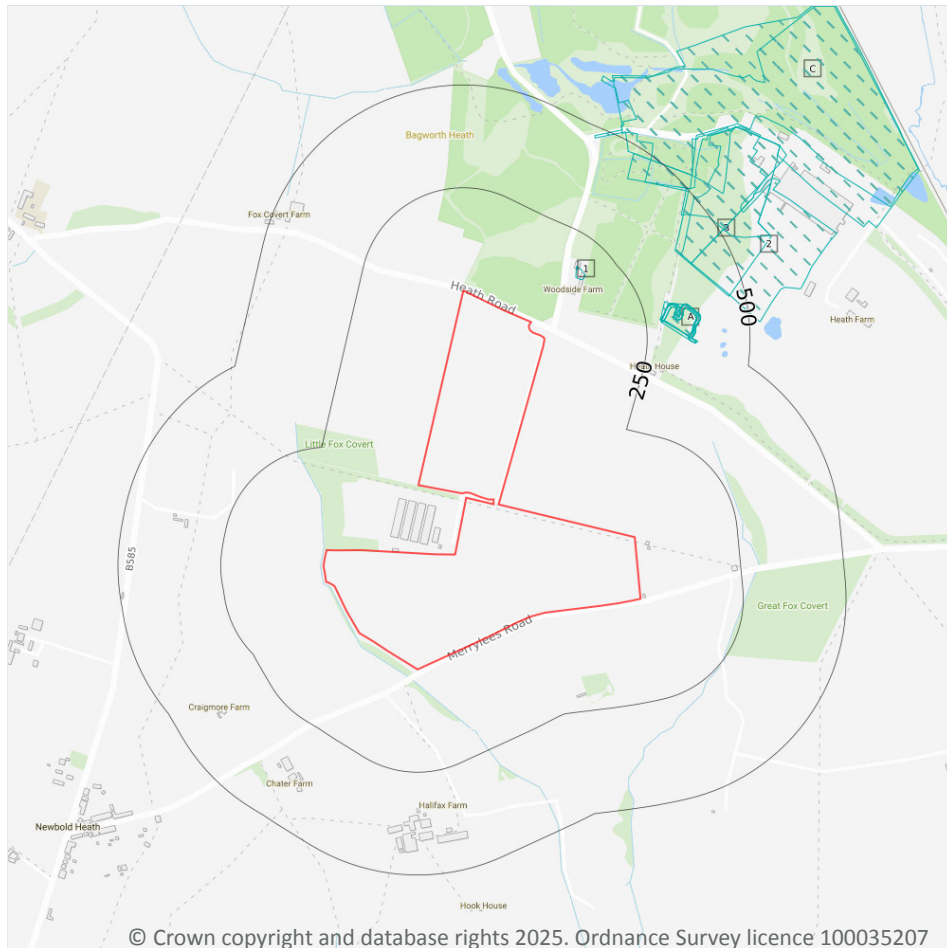
Records within 500m**0**

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

2.1 Historical industrial land uses

Records within 500m

14

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 17](#) >

ID	Location	Land Use	Date	Group ID
1	154m N	Old Gravel Pit	1885	1616727
A	286m NE	Old Gravel Pit	1885	1616728
A	286m NE	Unspecified Pit	1901	1643046



ID	Location	Land Use	Date	Group ID
A	286m NE	Unspecified Disused Pit	1984	1634522
A	287m NE	Unspecified Pit	1919	1643046
A	287m NE	Unspecified Ground Workings	1950	1762475
A	287m NE	Unspecified Ground Workings	1968	1762475
A	287m NE	Unspecified Ground Workings	1930	1721299
B	383m NE	Brick Works	1950	1596835
B	390m NE	Unspecified Disused Tip	1984	1636182
2	402m NE	Clay Pit	1984	1608920
C	439m NE	Colliery	1968	1772660
B	448m NE	Unspecified Workings	1968	1599235
C	473m N	Colliery	1950	1772660

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

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

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'.

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

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

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

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

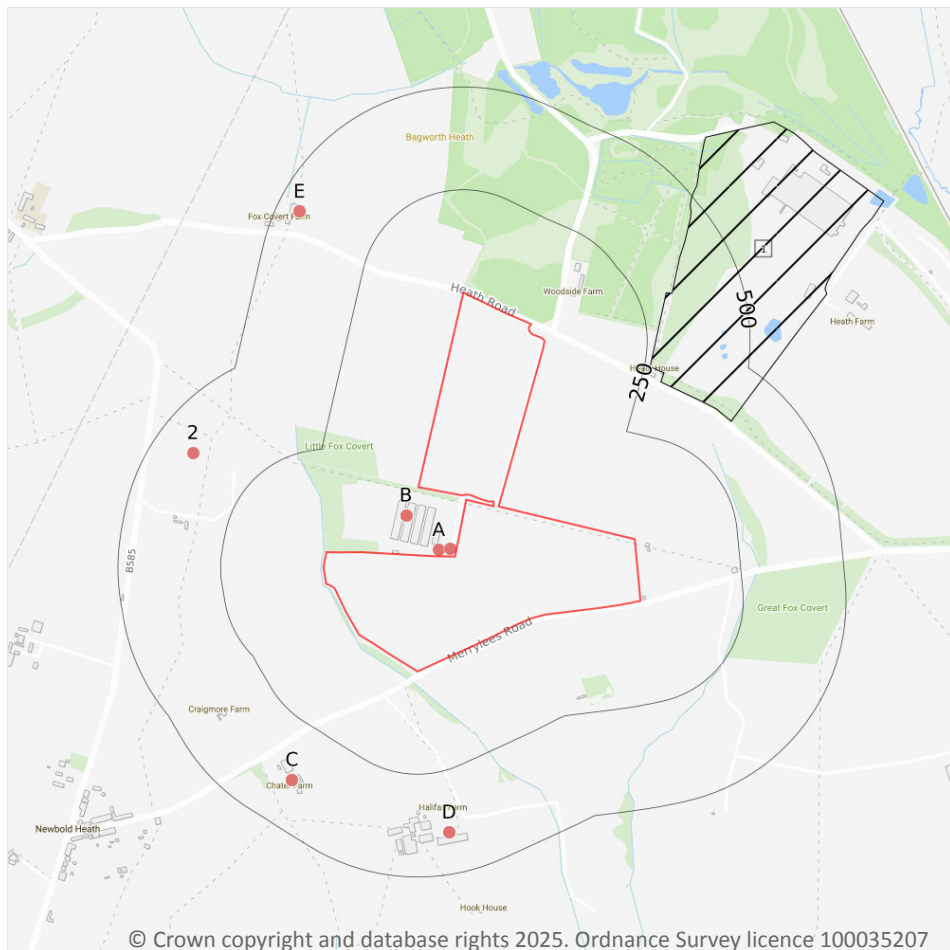
Records within 500m

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



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

1

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

Features are displayed on the Waste and landfill map on [page 20 >](#)

ID	Location	Details		
1	264m NE	Site Address: Desford Brickworks, Heath Road, Coalville, Bagworth, Leicestershire Licence Holder Address: 14 Castle Hill, Maidenhead, Berkshire	Waste Licence: Yes Site Reference: NYCC/295, 0700/NYCC295, NE3257 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: YP3/L/MOV001 Licence Issue: 10/05/1991 Licence Surrender: 27/07/2010	Operator: Desford Brickworks Licence Holder: Desford Brickworks First Recorded 01/06/1992 Last Recorded: -

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

3.5 Historical waste sites

Records within 500m

0

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

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

3.6 Licensed waste sites

Records within 500m

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

45

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 20 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
A	15m SW	-	WEX302825	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	16m SW	-	WEX358130	Using waste exemption	On a farm	Use of waste for a specified purpose
B	76m W	-	WEX330098	Using waste exemption	On a farm	Spreading waste on non-agricultural land to confer benefit
B	76m W	-	WEX330098	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
B	76m W	-	WEX330098	Using waste exemption	On a farm	Incorporation of ash into soil
B	76m W	-	WEX330098	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
B	76m W	-	WEX330098	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
B	76m W	-	WEX330098	Disposing of waste exemption	On a farm	Burning waste in the open
B	76m W	-	WEX200700	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
B	76m W	-	WEX200700	Using waste exemption	On a farm	Incorporation of ash into soil
B	76m W	-	WEX200700	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
B	76m W	-	WEX200700	Using waste exemption	On a farm	Spreading waste on non-agricultural land to confer benefit



ID	Location	Site	Reference	Category	Sub-Category	Description
B	76m W	-	WEX200700	Disposing of waste exemption	On a farm	Burning waste in the open
B	76m W	-	WEX200700	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	387m SW	Chater Farm Newbold Verdon Le9 9nr	EPR/RE5583P W/A001	Using waste exemption	Agricultural waste only	Use of waste in construction
C	387m SW	Chater Farm Newbold Verdon Le9 9nr	EPR/RE5583P W/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
C	387m SW	Chater Farm Newbold Verdon Le9 9nr	EPR/RE5583P W/A001	Using waste exemption	Agricultural waste only	Spreading waste on agricultural land to confer benefit
C	389m SW	Chater House Farm, Merrylees Road, Newbold Verdon, Leicester, Le9 9nr	WEX018496	Using waste exemption	On a farm	Use of waste in construction
C	389m SW	Chater House Farm, Merrylees Road, Newbold Verdon, Leicester, Le9 9nr	WEX018496	Disposing of waste exemption	On a farm	Burning waste in the open
C	389m SW	Chater House Farm, Merrylees Road, Newbold Verdon, Leicester, Le9 9nr	WEX018496	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	389m SW	Chater House Farm, Merrylees Road, Newbold Verdon, Leicester, Le9 9nr	WEX174700	Using waste exemption	On a farm	Use of waste in construction
C	389m SW	Chater House Farm, Merrylees Road, Newbold Verdon, Leicester, Le9 9nr	WEX174700	Disposing of waste exemption	On a farm	Burning waste in the open
C	389m SW	Chater House Farm, Merrylees Road, Newbold Verdon, Leicester, Le9 9nr	WEX174700	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
D	400m S	Halifax Farm Merrylees Road Leicester Le9 9nr	EPR/LF0403EF /A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
D	400m S	Halifax Farm Merrylees Road Leicester Le9 9nr	EPR/LF0403EF /A001	Treating waste exemption	Agricultural waste only	Cleaning, washing, spraying or coating relevant waste
D	400m S	Halifax Farm Merrylees Road Leicester Le9 9nr	EPR/LF0403EF /A001	Treating waste exemption	Agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising



ID	Location	Site	Reference	Category	Sub-Category	Description
D	400m S	Halifax Farm Merrylees Road Leicester Le9 9nr	EPR/LF0403EF /A001	Using waste exemption	Agricultural waste only	Incorporation of ash into soil
D	400m S	Halifax Farm Merrylees Road Leicester Le9 9nr	EPR/LF0403EF /A001	Using waste exemption	Agricultural waste only	Use of waste for a specified purpose
D	400m S	Halifax Farm Merrylees Road Leicester Le9 9nr	EPR/LF0403EF /A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
D	400m S	Halifax Farm, Merrylees Road, Newbold Verdon, Leicester, Le9 9nr	WEX152012	Using waste exemption	On a farm	Use of waste for a specified purpose
D	400m S	Halifax Farm, Merrylees Road, Newbold Verdon, Leicester, Le9 9nr	WEX152012	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	400m S	Halifax Farm, Merrylees Road, Newbold Verdon, Leicester, Le9 9nr	WEX152012	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
D	400m S	Halifax Farm, Merrylees Road, Newbold Verdon, Leicester, Le9 9nr	WEX152012	Using waste exemption	On a farm	Incorporation of ash into soil
D	400m S	Halifax Farm, Merrylees Road, Newbold Verdon, Leicester, Le9 9nr	WEX152012	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
D	400m S	Halifax Farm, Merrylees Road, Newbold Verdon, Leicester, Le9 9nr	WEX152012	Using waste exemption	On a farm	Use of waste in construction
D	400m S	Halifax Farm Merrylees Road Leicester Le9 9nr	EPR/LF0403EF /A001	Disposing of waste exemption	Agricultural waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
D	400m S	Halifax Farm Merrylees Road Leicester Le9 9nr	EPR/LF0403EF /A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
D	400m S	Halifax Farm Merrylees Road Leicester Le9 9nr	EPR/LF0403EF /A001	Using waste exemption	Agricultural waste only	Spreading waste on agricultural land to confer benefit
D	400m S	Halifax Farm, Merrylees Road, Newbold Verdon, Leicester, Le9 9nr	WEX152012	Disposing of waste exemption	On a farm	Burning waste in the open

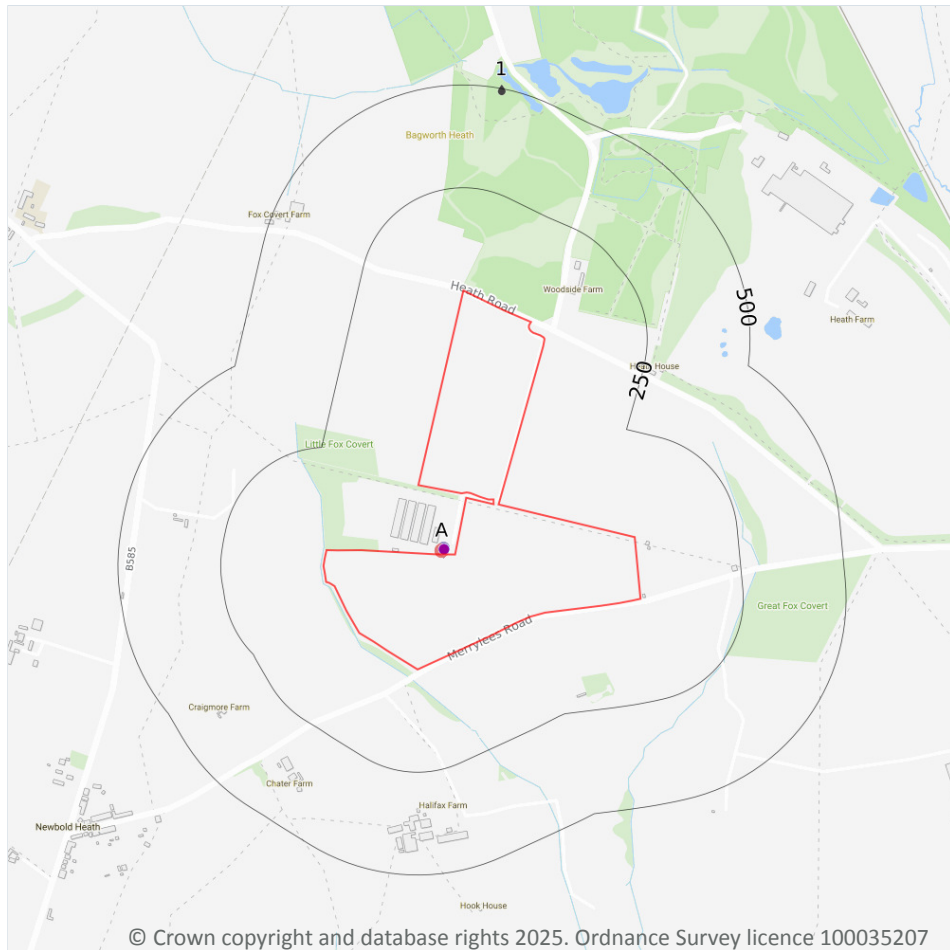


ID	Location	Site	Reference	Category	Sub-Category	Description
D	400m S	Halifax Farm, Merrylees Road, Newbold Verdon, Leicester, Le9 9nr	WEX152012	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
D	400m S	Halifax Farm, Merrylees Road, Newbold Verdon, Leicester, Le9 9nr	WEX152012	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
2	405m W	-	WEX388484	Storing waste exemption	On a farm	Storage of sludge
E	445m NW	Fox Covert Farm Garlands Lane Coalville Leicestershire Le67 1df	EPR/WE5885L M/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
E	445m NW	Fox Covert Farm Garlands Lane Coalville Leicestershire Le67 1df	EPR/WE5885L M/A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
E	445m NW	Fox Covert Farm Garlands Lane Coalville Leicestershire Le67 1df	EPR/WE5885L M/A001	Using waste exemption	Agricultural waste only	Use of waste for a specified purpose

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Part A(1) industrial activities
- Licensed Discharges to controlled waters
- Pollution inventory substances
- Pollution inventory waste transfers

4.1 Recent industrial land uses

Records within 250m

3

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 26 >](#)

ID	Location	Company	Address	Activity	Category
A	9m SW	Merrylees Road (Resubmission)	Thornton, Leicestershire, LE67	Energy Production	Industrial Features



ID	Location	Company	Address	Activity	Category
A	9m SW	Merrylees Road (Resubmission) Turbine	Leicestershire, LE67	Energy Production	Industrial Features
A	9m SW	Wind Turbine	Leicestershire, LE67	Energy Production	Industrial Features

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**2**

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

Features are displayed on the Current industrial land use map on [page 26](#) >

ID	Location	Details	
A	11m SW	Operator: Mr Jonathan Hay Installation Name: Snipperry site - EPR/CP3536NY Process: INTENSIVE FARMING; > 40,000 POULTRY Permit Number: CP3536NY Original Permit Number: CP3536NY	EPR Reference: EPR/CP3536NY Issue Date: 21/05/2018 Effective Date: 21/05/2018 Last date noted as effective: 29/10/2024 Status: Effective
A	11m SW	Operator: Hay Installation Name: Snipperry site - EPR/CP3536NY Process: INTENSIVE FARMING; > 40,000 POULTRY Permit Number: JP3131JX Original Permit Number: CP3536NY	EPR Reference: - Issue Date: 21/05/2018 Effective Date: 21/05/2018 Last date noted as effective: 21/03/2023 Status: Effective

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 26 >](#)

ID	Location	Address	Details	
1	498m N	LITTLEBAGWORTH,M ARKETBOSWORTH,W ARWICKSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: T/56/00938/O Permit Version: 1 Receiving Water: ROTHLEY BROOK (TRIBUTARY)	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 01/05/1962 Effective Date: 01/05/1962 Revocation Date: -

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

4.14 Pollutant release to surface waters (Red List)

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

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

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

4.15 Pollutant release to public sewer

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

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

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

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

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

4.17 List 2 Dangerous Substances

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

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

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



4.18 Pollution Incidents (EA/NRW)

Records within 500m

0

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

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

4.19 Pollution inventory substances

Records within 500m

3

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.

Features are displayed on the Current industrial land use map on [page 26 >](#)

ID: A, Location: 11m SW, Permit: CP3536NY
 Operator: Hay
 Activity: INTENSIVE FARMING; > 40,000 POULTRY
 Address: Snippery Site Heath Lane Merry Lees Leicestershire LE67 1DG
 Sector: Agriculture, Sub-sector: Intensive Farming
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Ammonia	1000kg	5489kg

ID: A, Location: 11m SW, Permit: CP3536NY
 Operator: Hay
 Activity: INTENSIVE FARMING; > 40,000 POULTRY
 Address: Snippery Site Heath Lane Merry Lees Leicestershire LE67 1DG
 Sector: Agriculture, Sub-sector: Intensive Farming
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Particulate matter - PM10	1000kg	4998kg



ID: A, Location: 11m SW, Permit: CP3536NY
 Operator: Hay
 Activity: INTENSIVE FARMING; > 40,000 POULTRY
 Address: Snippery Site Heath Lane Merry Lees Leicestershire LE67 1DG
 Sector: Agriculture, Sub-sector: Intensive Farming
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Nitrogen oxides (NO and NO2) as NO2	100000kg	Below Reporting Threshold

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

4.20 Pollution inventory waste transfers

Records within 500m	1
----------------------------	----------

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.

Features are displayed on the Current industrial land use map on [page 26 >](#)

ID: A, Location: 11m SW, Permit: CP3536NY
 Operator: Hay
 Activity: INTENSIVE FARMING; > 40,000 POULTRY
 Address: Snippery Site Heath Lane Merry Lees Leicestershire LE67 1DG
 Sector: Agriculture, Sub-sector: Intensive Farming
 Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R4	Recycling/reclamation of metals and metal compounds	Below Reporting Threshold	Below Reporting Threshold	02 01 10	waste metal	No
D1	Deposit into or onto land (eg landfill, etc.)	Below Reporting Threshold	Below Reporting Threshold	15 01 01	paper and cardboard packaging	No
R5	Recycling/reclamation of other inorganic materials	Below Reporting Threshold	Below Reporting Threshold	15 01 02	plastic packaging	No

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D1	Deposit into or onto land (eg landfill, etc.)	Below Reporting Threshold	Below Reporting Threshold	15 01 03	wooden packaging	No
D1	Deposit into or onto land (eg landfill, etc.)	Below Reporting Threshold	Below Reporting Threshold	15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02	No
R9	Oil e-refining or other reuses of oil	0.02	Absolute Value	13 02 05	mineral-based non-chlorinated engine, gear and lubricating oils	Yes
R5	Recycling/reclamation of other inorganic materials	0.01	Absolute Value	20 01 21	fluorescent tubes and other mercury-containing waste	Yes

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

4.21 Pollution inventory radioactive waste

Records within 500m

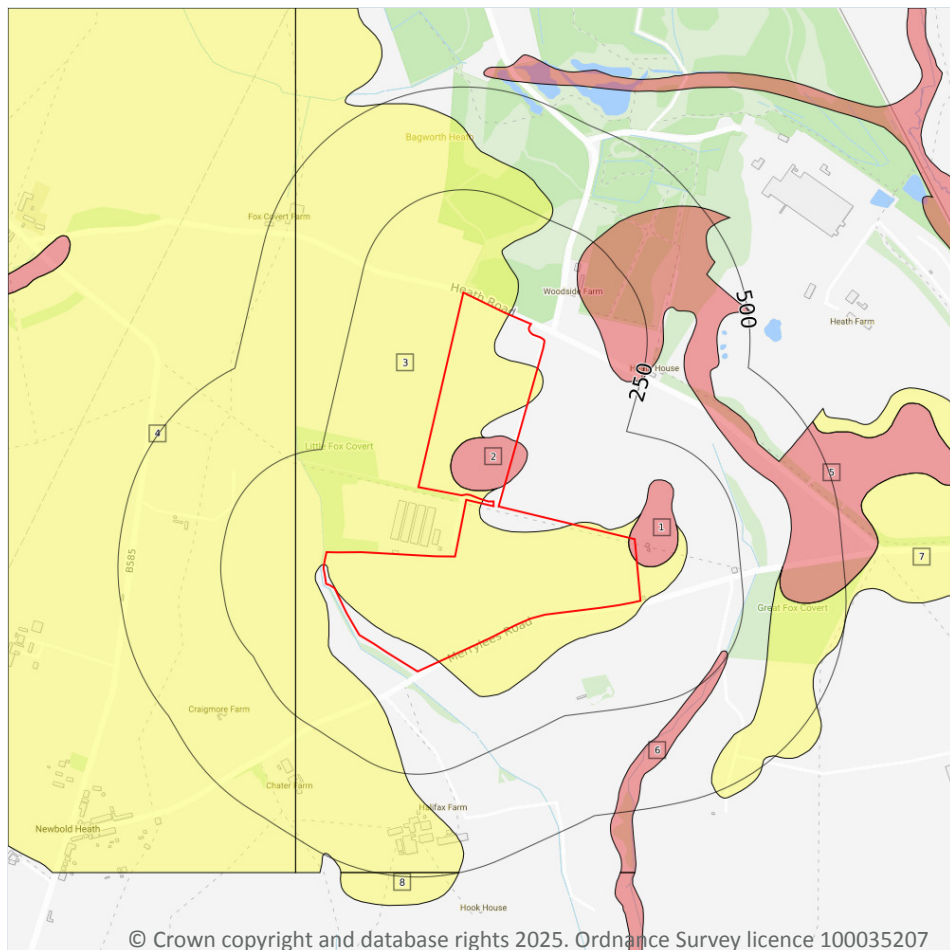
0

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

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



5 Hydrogeology - Superficial aquifer



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

5.1 Superficial aquifer

Records within 500m

8

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 34 >](#)

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

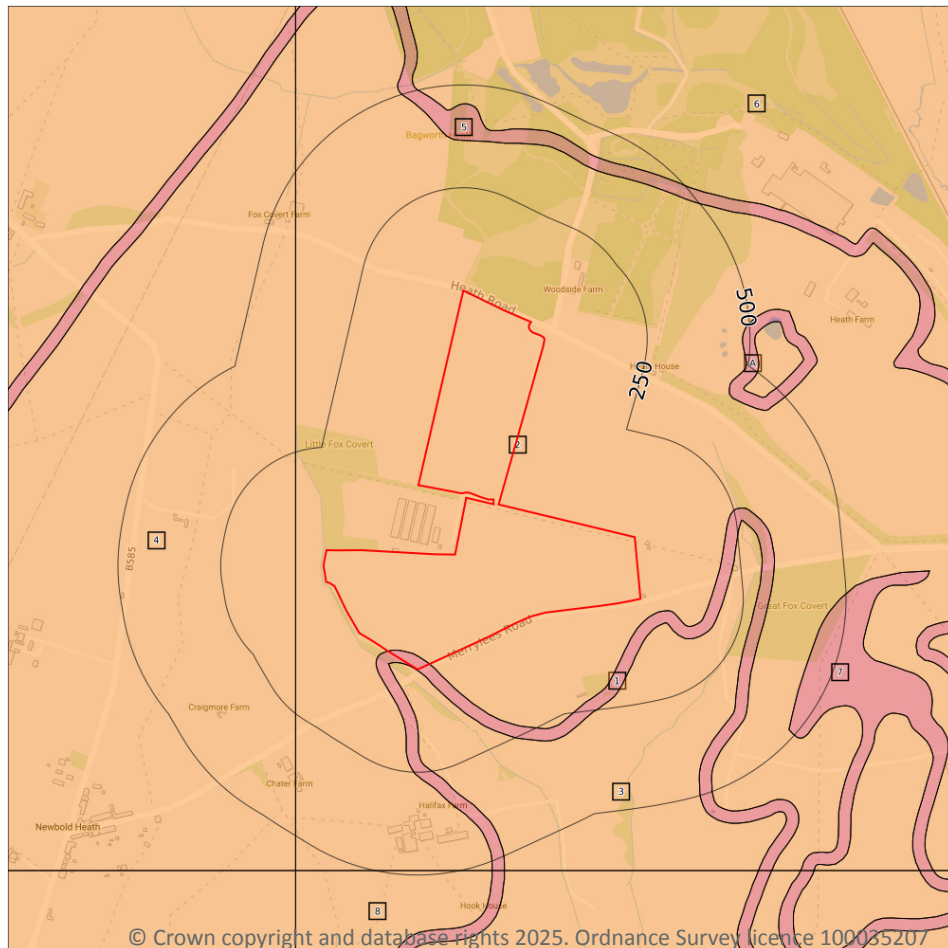


ID	Location	Designation	Description
3	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	68m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
5	129m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
6	233m 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
7	319m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
8	489m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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



Bedrock aquifer



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

5.2 Bedrock aquifer

Records within 500m

10

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 36](#) >

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers

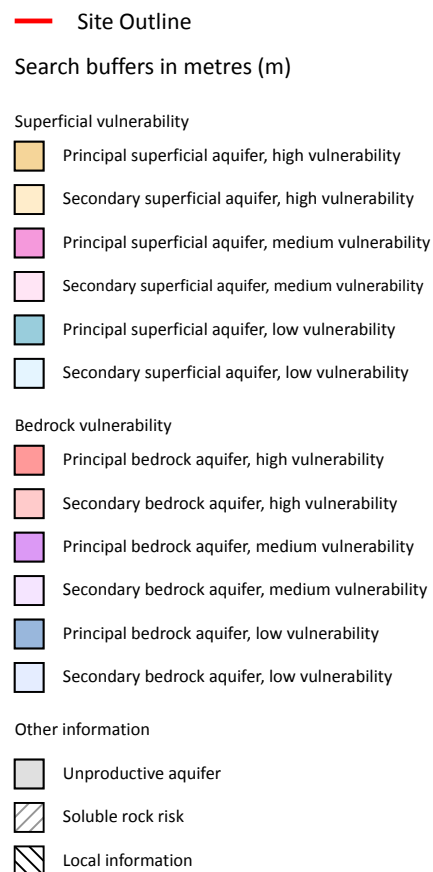
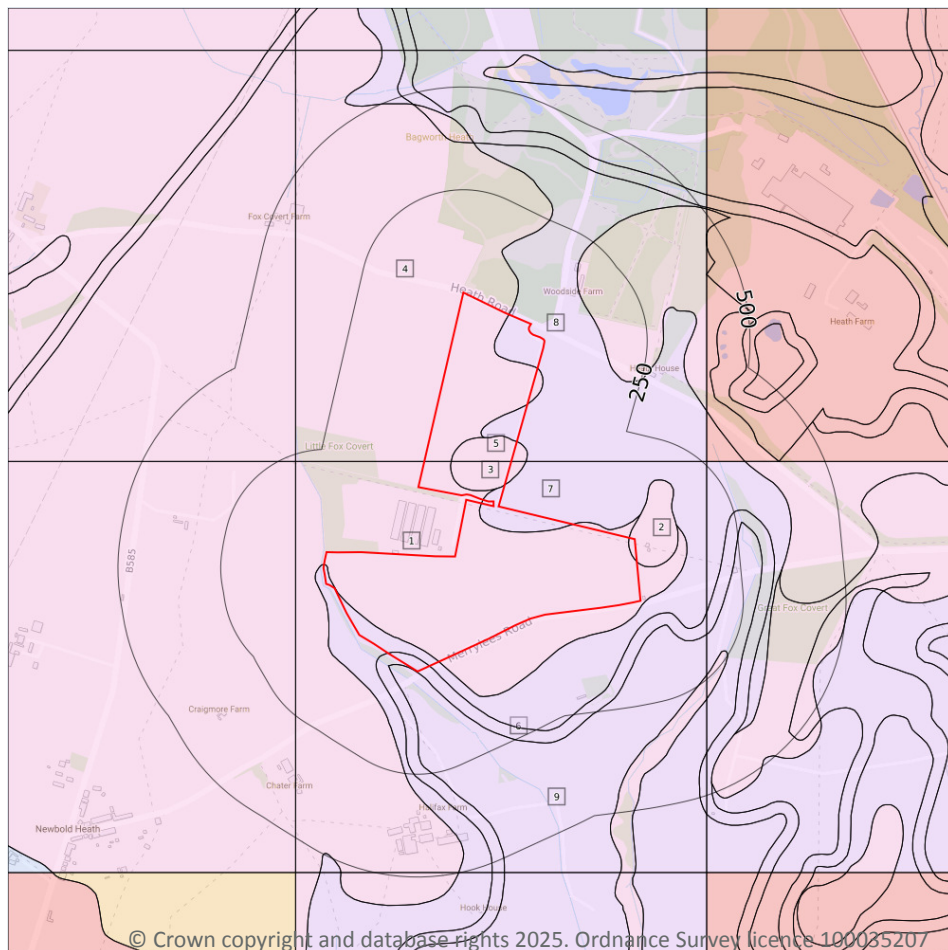


ID	Location	Designation	Description
3	2m SW	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
4	68m W	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
5	365m 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
6	395m N	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
A	413m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
7	434m 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
A	446m NE	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
8	489m S	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-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

9

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 38](#) >



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
6	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
7	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
8	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: >10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
9	2m SW	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

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

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

5.5 Groundwater vulnerability- local information

Records on site

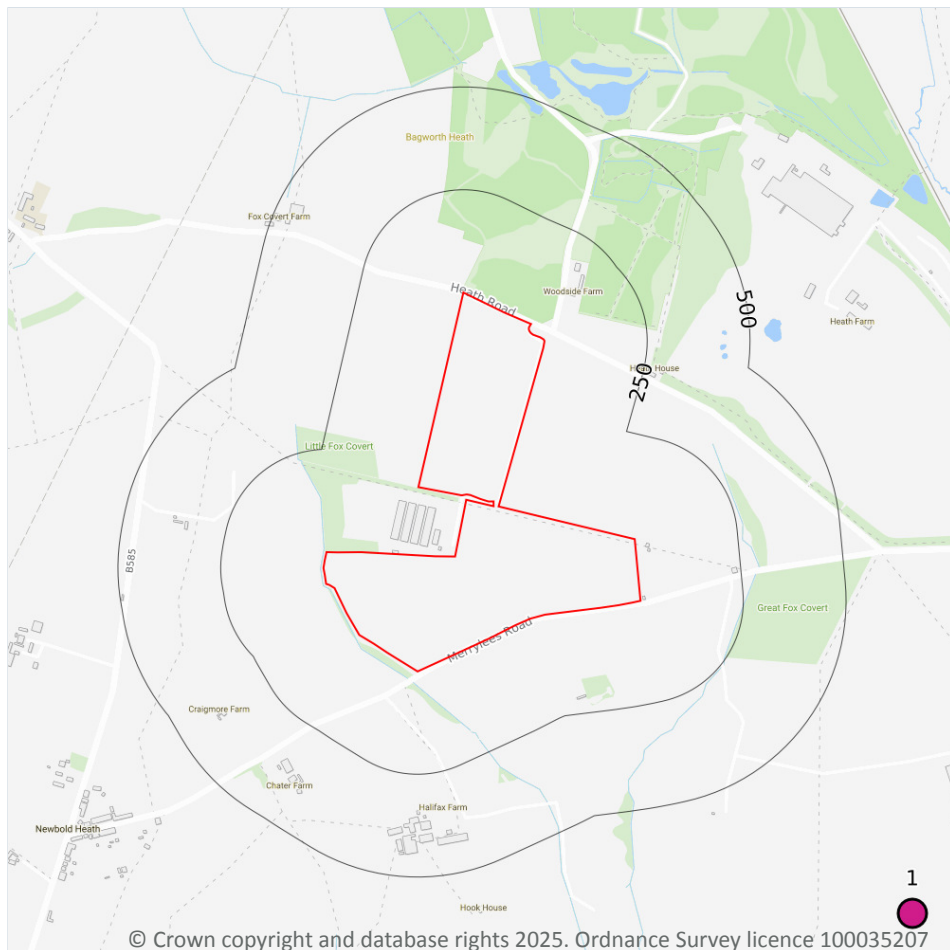
0

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

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



Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

2

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 41](#) >



ID	Location	Details	
1	1008m SE	Status: Historical Licence No: 03/28/56/0006 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: LINDRIDGE HALL - WELL Data Type: Point Name: T H AND T N SCARRATT Easting: 446500 Northing: 304900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 03/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
-	1860m NE	Status: Historical Licence No: 03/28/56/0009 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: BUSKY FARM - WELL Data Type: Point Name: BANCROFT Easting: 447400 Northing: 306800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 03/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	0
-----------------------------	----------

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.

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

5.8 Potable abstractions

Records within 2000m	0
-----------------------------	----------

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

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



5.9 Source Protection Zones

Records within 500m

0

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

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m

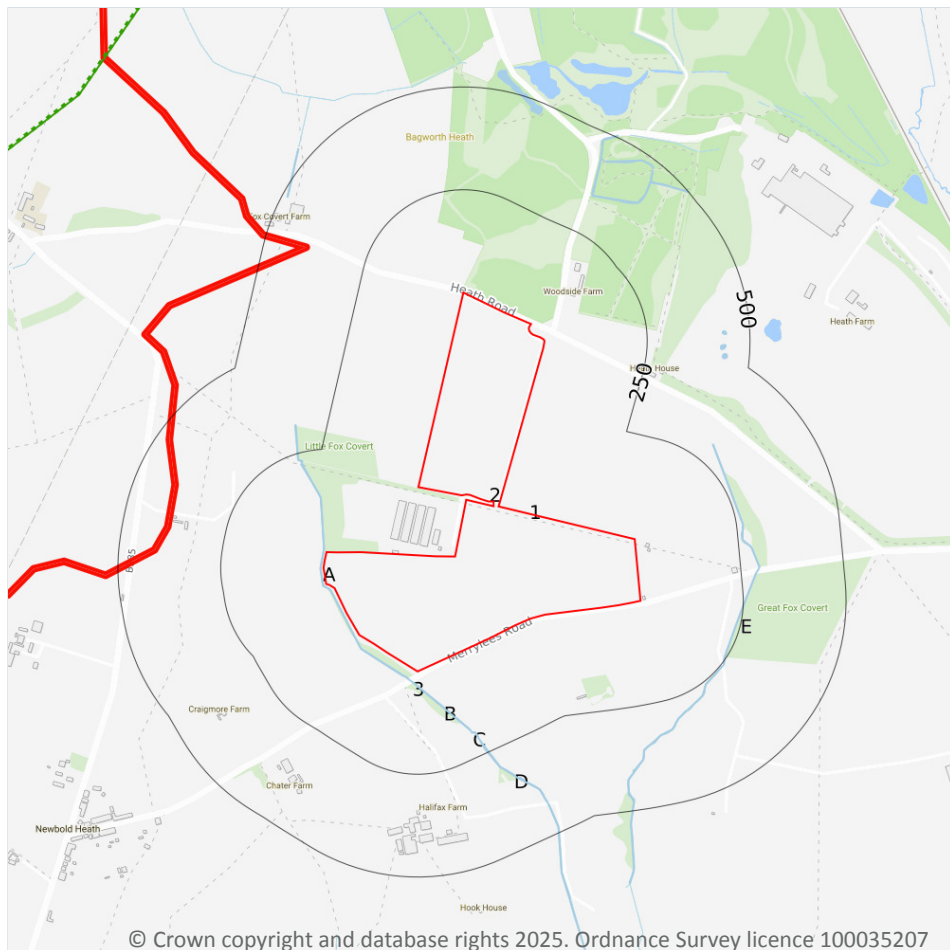
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Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive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

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



6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

8

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 44 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
A	7m W	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
3	28m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
B	29m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	184m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	189m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	209m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	215m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	239m SE	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

5

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 44](#) >

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 44 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River	Rothley Brook Catchment (trib of Soar)	GB104028046730	Soar River	Soar

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

6.4 WFD Surface water bodies

Records identified	1
---------------------------	----------

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

Features are displayed on the Hydrology map on [page 44 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1026m NE	River	Rothley Brook Catchment (trib of Soar)	GB104028046730 ↗	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site	1
------------------------	----------

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

Features are displayed on the Hydrology map on [page 44 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	Soar - Secondary Combined	GB40402G990600 ↗	Good	Good	Good	2019

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



7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m**0**

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

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

7.2 Historical Flood Events

Records within 250m**0**

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

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

7.3 Flood Defences

Records within 250m**0**

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

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



7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

7.5 Flood Storage Areas

Records within 250m

0

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

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



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

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

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

7.7 Flood Zone 3

Records within 50m

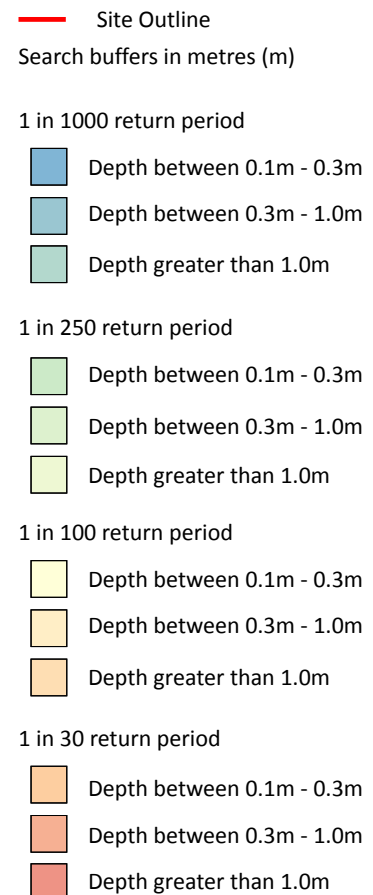
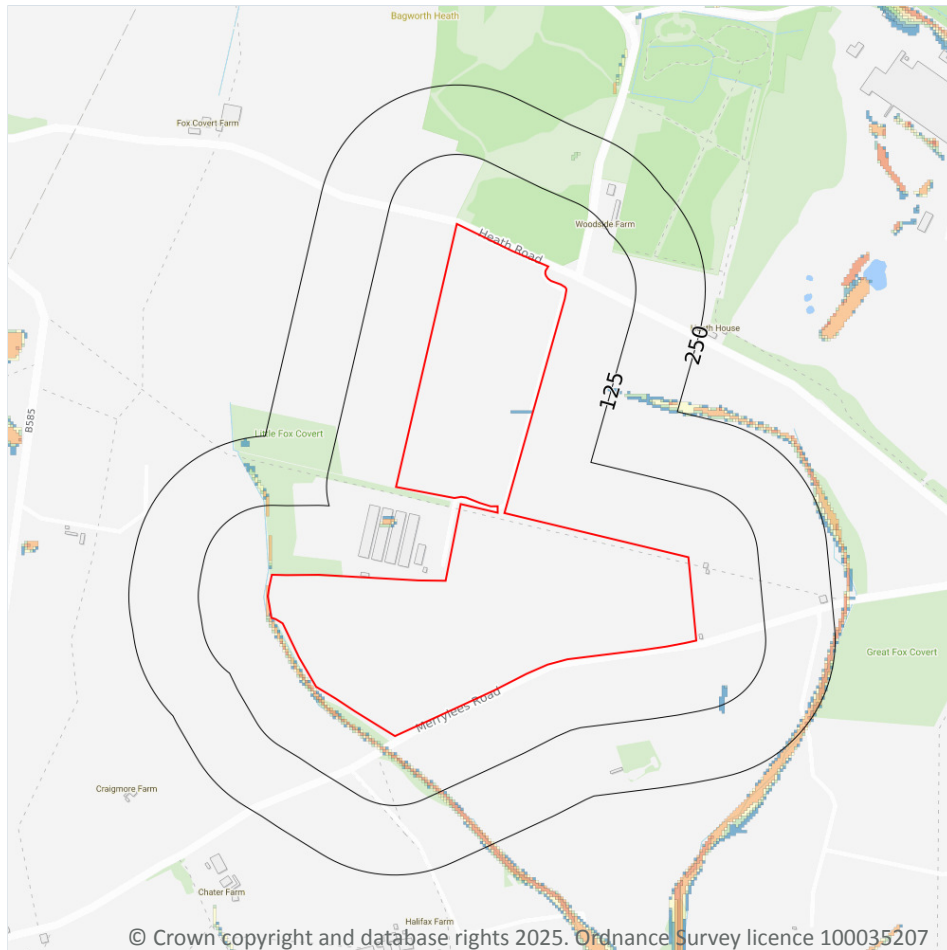
0

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

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.1m - 0.3m

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

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

Features are displayed on the Surface water flooding map on [page 50](#) >

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.

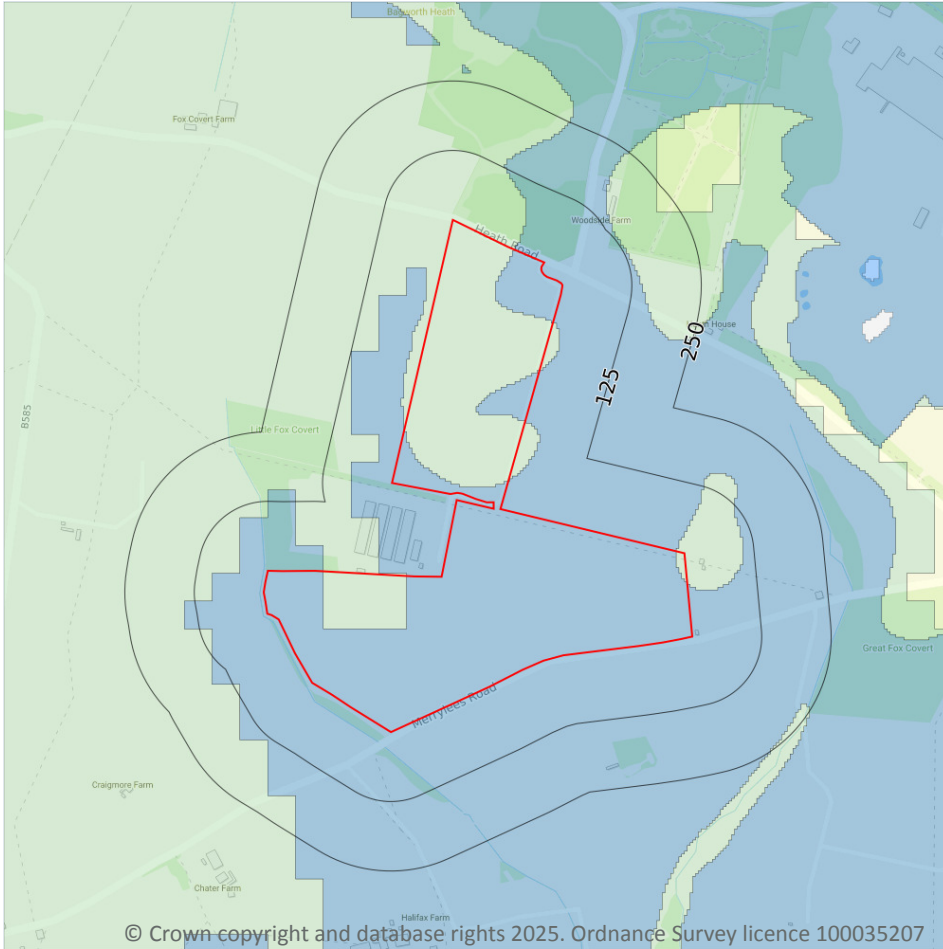
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.1m and 0.3m
1 in 250 year	Between 0.1m and 0.3m
1 in 100 year	Between 0.1m and 0.3m
1 in 30 year	Between 0.1m and 0.3m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

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

9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

Low

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

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

This data is sourced from Ambiantal Risk Analytics.

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— Site Outline

Search buffers in metres (m)

Designated Ancient Woodland

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m**0**

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

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

10.7 Designated Ancient Woodland

Records within 2000m**1**

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

Features are displayed on the Environmental designations map on [page 53 >](#)

ID	Location	Name	Woodland Type
1	1910m SE	Unknown	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m**0**

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

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

10.9 Forest Parks

Records within 2000m**0**

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

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m**0**

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

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

10.11 Green Belt

Records within 2000m**0**

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

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

10.12 Proposed Ramsar sites

Records within 2000m**0**

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m**0**

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

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

This data is sourced from Natural England.



10.15 Nitrate Sensitive Areas

Records within 2000m

0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

9

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	SOAR R NVZ	Surface Water	309	Existing
On site	SOAR R NVZ	Surface Water	309	Existing
350m W	River Trent (source to confluence with Derwent)	Surface Water	308	Existing
427m NW	River Trent (source to confluence with Derwent)	Surface Water	308	Existing
976m W	River Trent (source to confluence with Derwent)	Surface Water	308	Existing
983m W	SOAR R NVZ	Surface Water	309	Existing
1004m W	River Trent (source to confluence with Derwent)	Surface Water	308	Existing
1030m W	SOAR R NVZ	Surface Water	309	Existing
1638m SW	SOAR R NVZ	Surface Water	309	Existing

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



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ID	Location	Type of developments requiring consultation
2	On site	Infrastructure - Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0
----------------------	---

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

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

11 Visual and cultural designations

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

0

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.



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

11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

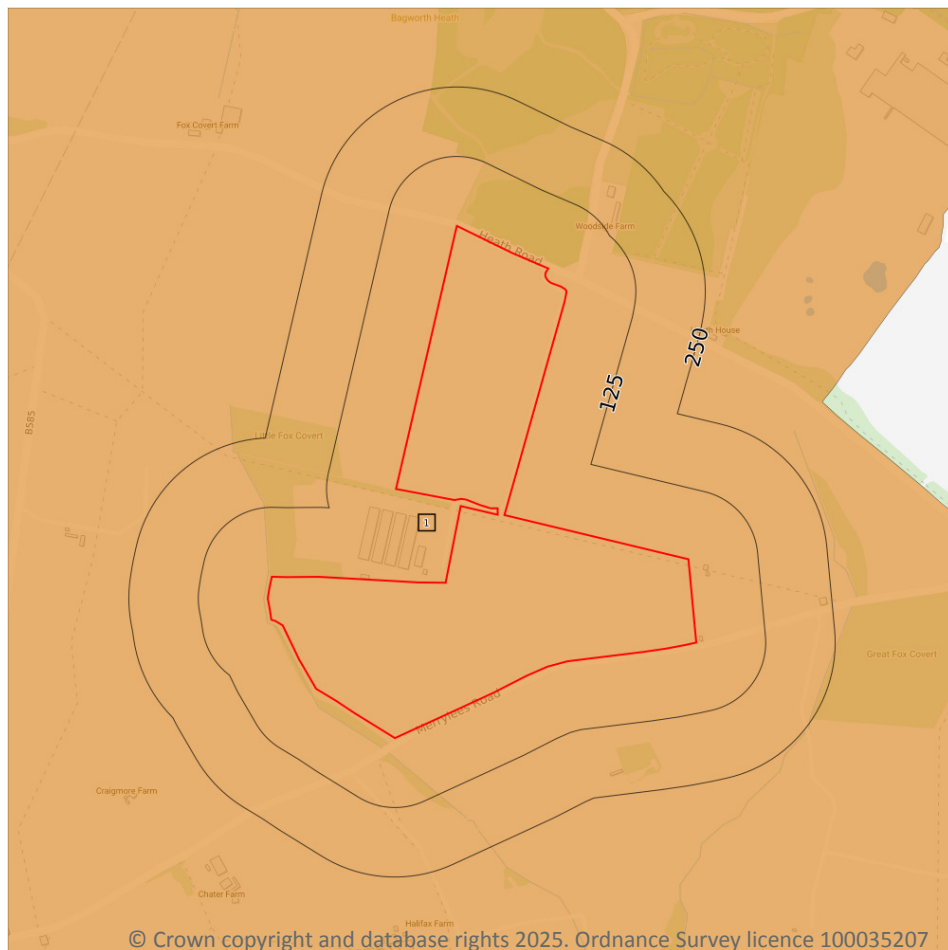
0

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

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



12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

1

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

Features are displayed on the Agricultural designations map on [page 62](#) >

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.

This data is sourced from Natural England.



12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

2

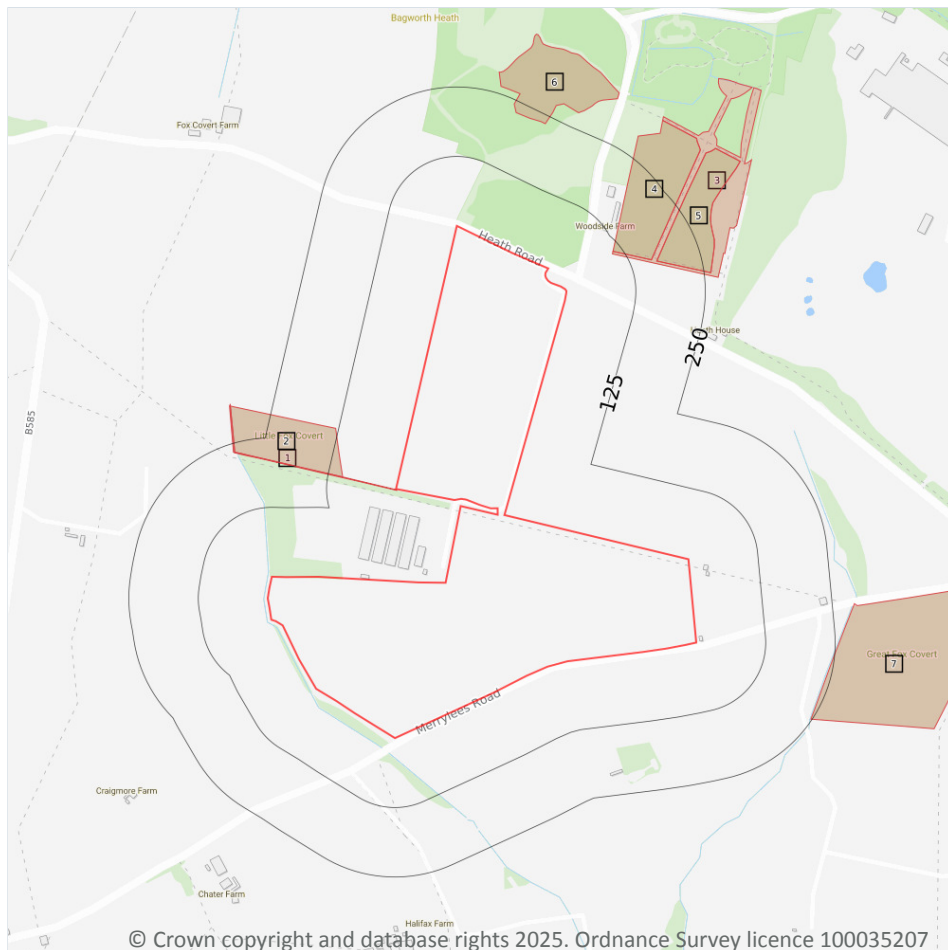
Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

Location	Reference	Scheme	Start Date	End Date
34m SE	1458609	Countryside Stewardship (Middle Tier)	01/01/2023	31/12/2027
106m NE	1220783	Countryside Stewardship (Higher Tier)	01/01/2022	31/12/2026

This data is sourced from Natural England.



13 Habitat designations



- Site Outline
- Search buffers in metres (m)
- Priority Habitat Inventory
- Open Mosaic Habitat
- Limestone Pavement Orders
- Habitat Networks
- Primary Habitat
- Restorable Habitat
- Associated Habitats
- Habitat Restoration-Creation
- Network Enhancement Zone 1
- Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m

7

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 64](#) >

ID	Location	Main Habitat	Other habitats
1	1m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	98m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	106m NE	No main habitat but additional habitats present	Additional: DWOOD (INV 50%)
4	110m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
5	171m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	230m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	241m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

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.



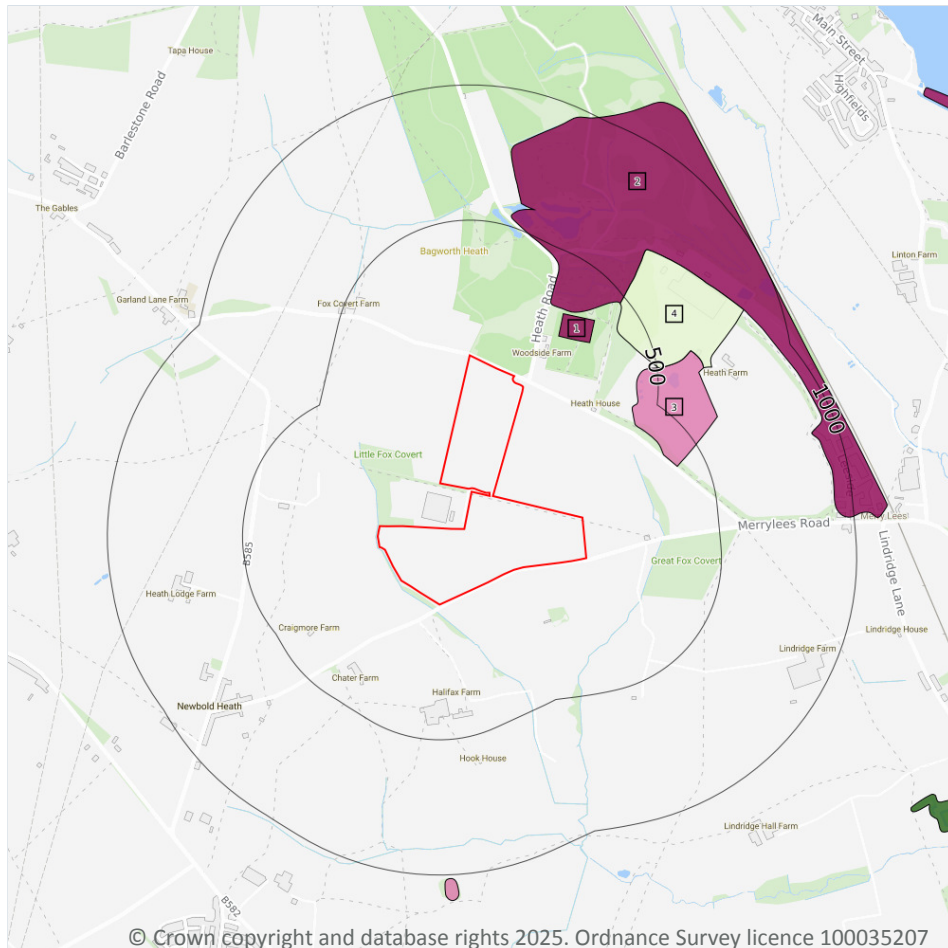
This map shows the Heath area in Northampton, with a red-outlined site at the center. The site is located near Bagworth Heath and Heath Road. Two concentric circles are drawn around the site, with labels '500' and '1000' indicating distances in meters. The map includes various landmarks and roads, such as Barlstone Road, Main Street, and Heath Road. Other labeled locations include Tapa House, The Gables, Garland Lane Farm, Fox Covert Farm, Woodside Farm, Heath Farm, Heath House, Little Fox Covert, Great Fox Covert, Merrylees Road, Lindridge Lane, Lindridge Farm, Lindridge Hall Farm, Hook House, Chater Farm, Halifax Farm, Craigmere Farm, Heath Lodge Farm, Newbold Heath, and Merry Lees. The map also shows the A535 road and the A532 road. The map is overlaid with a grid of latitude and longitude lines.

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 Full coverage
 Partial coverage
 No coverage

66

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

4

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 67](#) >

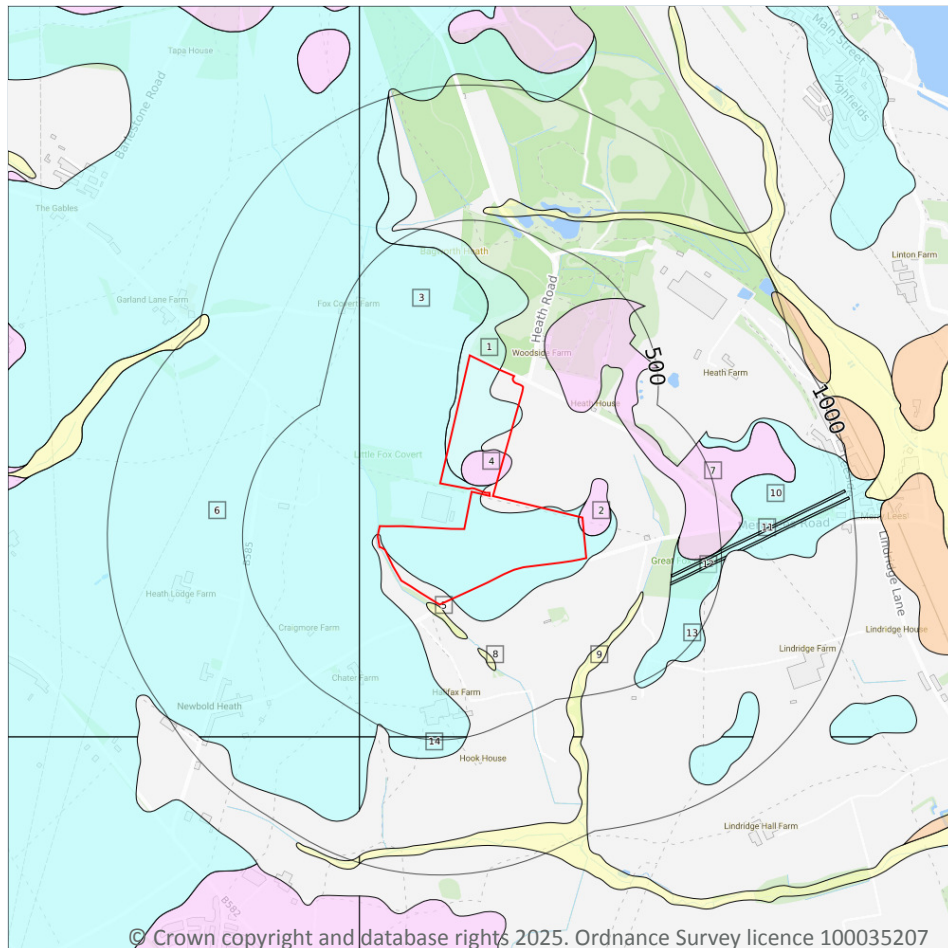
ID	Location	LEX Code	Description	Rock description
1	221m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	299m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	379m E	WGR-VOID	Worked Ground (Undivided)	Void
4	406m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit



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

14

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 69](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	THT-DMTN	Thrussington Member - Diamicton	Diamicton
2	On site	GFDMP-XSV	Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel	Sand And Gravel
3	On site	ODT-DMTN	Oadby Member - Diamicton	Diamicton
4	On site	GFDMP-XSV	Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel	Sand And Gravel



ID	Location	LEX Code	Description	Rock description
5	7m SW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
6	68m W	ODT-DMTN	Oadby Member - Diamicton	Diamicton
7	129m NE	GFDMP-XSV	Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel	Sand And Gravel
8	207m S	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
9	239m SE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
10	320m E	ODT-DMTN	Oadby Member - Diamicton	Diamicton
11	321m E	ODT-DMTN	Oadby Member - Diamicton	Diamicton
12	325m E	ODT-DMTN	Oadby Member - Diamicton	Diamicton
13	327m SE	ODT-DMTN	Oadby Member - Diamicton	Diamicton
14	489m S	ODT-DMTN	Oadby Member - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

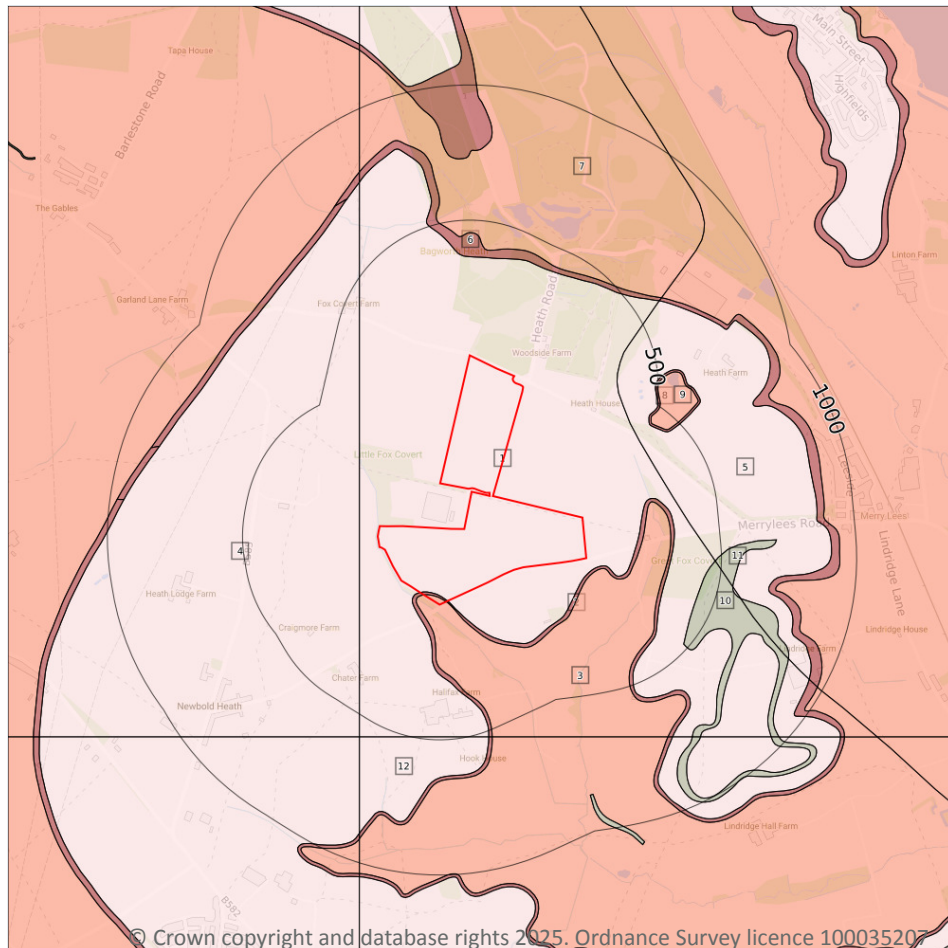
Records within 500m	0
----------------------------	----------

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

12

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 71 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	EDW-MDST	Edwalton Member - Mudstone	Carnian Age
2	On site	COT-SDST	Cotgrave Sandstone Member - Sandstone	Carnian Age
3	On site	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
4	68m W	EDW-MDST	Edwalton Member - Mudstone	Carnian Age



ID	Location	LEX Code	Description	Rock age
5	326m E	EDW-MDST	Edwalton Member - Mudstone	Carnian Age
6	364m N	COT-SDST	Cotgrave Sandstone Member - Sandstone	Carnian Age
7	395m N	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
8	424m NE	COT-SDST	Cotgrave Sandstone Member - Sandstone	Carnian Age
9	432m NE	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
10	434m SE	EDW-DSLST	Edwalton Member - Dolomitic Siltstone	Carnian Age
11	477m E	EDW-DSLST	Edwalton Member - Dolomitic Siltstone	Carnian Age
12	489m S	EDW-MDST	Edwalton Member - Mudstone	Carnian 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.



This map shows the Bagworth Heath area, centered on a site labeled '1' which is outlined in red. The site is located near Bagworth Heath and Woodside Farm. Two concentric circles are drawn around the site, representing distances of 500m and 1000m. The map includes various geographical features such as roads (e.g., Bagworth Road, Heath Road, Merrylees Road, Lindridge Lane), farms (e.g., Fox Covert Farm, Little Fox Covert, Great Fox Covert, Heath Lodge Farm, Craigmere Farm, Chater Farm, Halifax Farm, Hook House, Lindridge Farm, Lindridge Hall Farm, Merrylees Farm, Linton Farm), and other landmarks (e.g., Bagworth Heath, Heath House, Heath Farm, Heath Road, Bagworth House, The Gables, Garland Lane Farm, Newbold Heath, Hook House, Lindridge House, Merrylees Road, Lindridge Lane, Merrylees Farm, Linton Farm, Bagworth Heath, Heath Road, Bagworth House, The Gables, Garland Lane Farm, Newbold Heath, Hook House, Lindridge Farm, Lindridge Hall Farm, Merrylees Farm, Linton Farm). The map is sourced from Ordnance Survey, with a copyright notice at the bottom: '© Crown copyright and database rights 2025. Ordnance Survey licence 100035207'.

☐ Geological map tile

73

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

4

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 74 >](#)

ID	Location	LEX Code	Description	Rock description
1	221m NE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	299m N	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	379m E	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
4	406m NE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

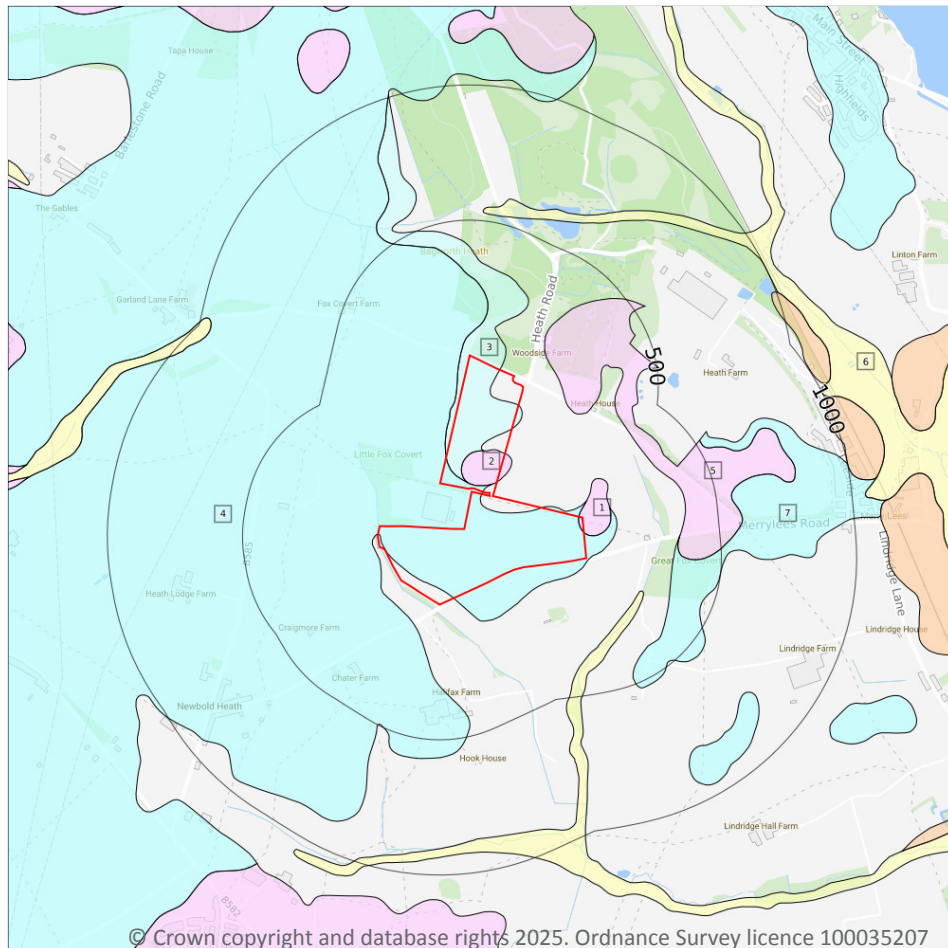
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

7

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 76](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL
2	On site	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL
3	On site	THT-DMTN	THRUSSINGTON MEMBER	DIAMICTON
4	On site	ODT-DMTN	OADBY MEMBER	DIAMICTON



ID	Location	LEX Code	Description	Rock description
5	129m NE	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL
6	233m SE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
7	319m E	ODT-DMTN	OADBY MEMBER	DIAMICTON

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	4
---------------------------	----------

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Low
On site	Intergranular	Very High	High
On site	Intergranular	Very High	High
On site	Mixed	Moderate	Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

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

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

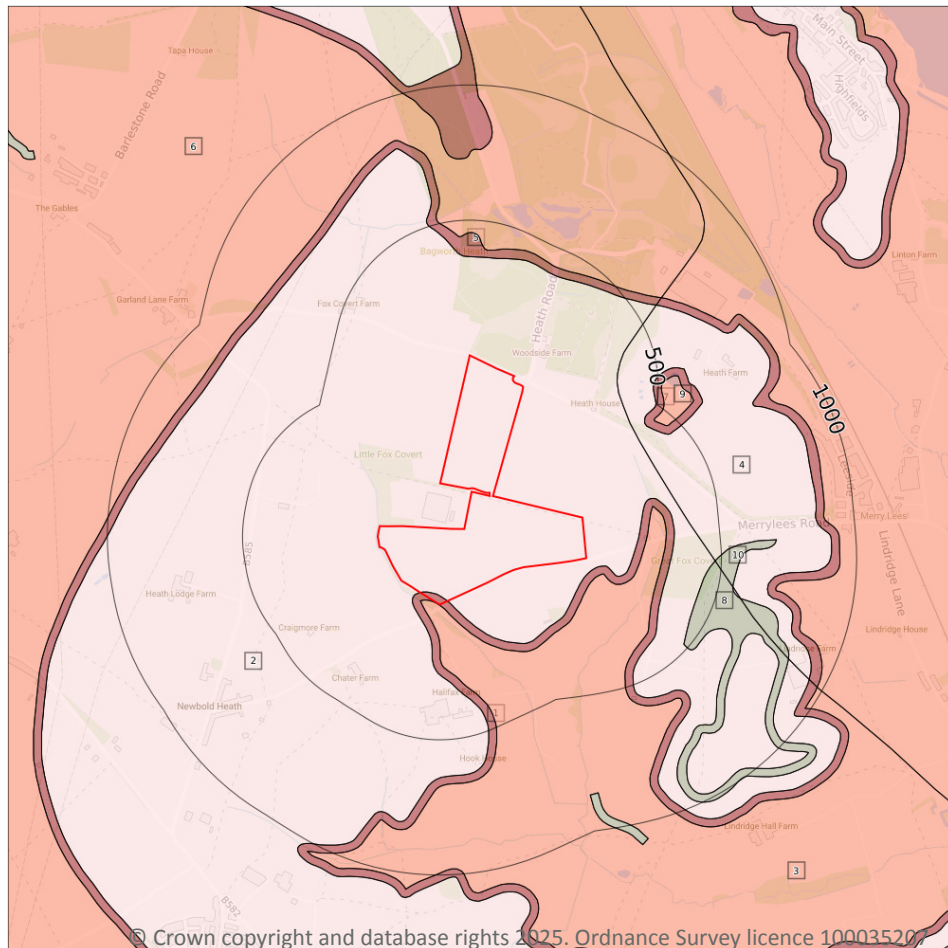
Records within 50m	0
---------------------------	----------

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

..... Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m

10

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 78 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	COT-SDST	COTGRAVE SANDSTONE MEMBER - SANDSTONE	CARNIAN
2	On site	EDW-MDST	EDWALTON MEMBER - MUDSTONE	CARNIAN
3	2m SW	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
4	326m E	EDW-MDST	EDWALTON MEMBER - MUDSTONE	CARNIAN



ID	Location	LEX Code	Description	Rock age
5	365m N	COT-SDST	COTGRAVE SANDSTONE MEMBER - SANDSTONE	CARNIAN
6	395m N	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
7	413m NE	COT-SDST	COTGRAVE SANDSTONE MEMBER - SANDSTONE	CARNIAN
8	434m SE	EDW-DSLST	EDWALTON MEMBER - SILTSTONE, DOLOMITIC	CARNIAN
9	446m NE	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
10	477m E	EDW-DSLST	EDWALTON MEMBER - SILTSTONE, DOLOMITIC	CARNIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	3
---------------------------	----------

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	High	Moderate
On site	Fracture	Low	Low
2m SW	Fracture	Low	Low

This data is sourced from the British Geological Survey.

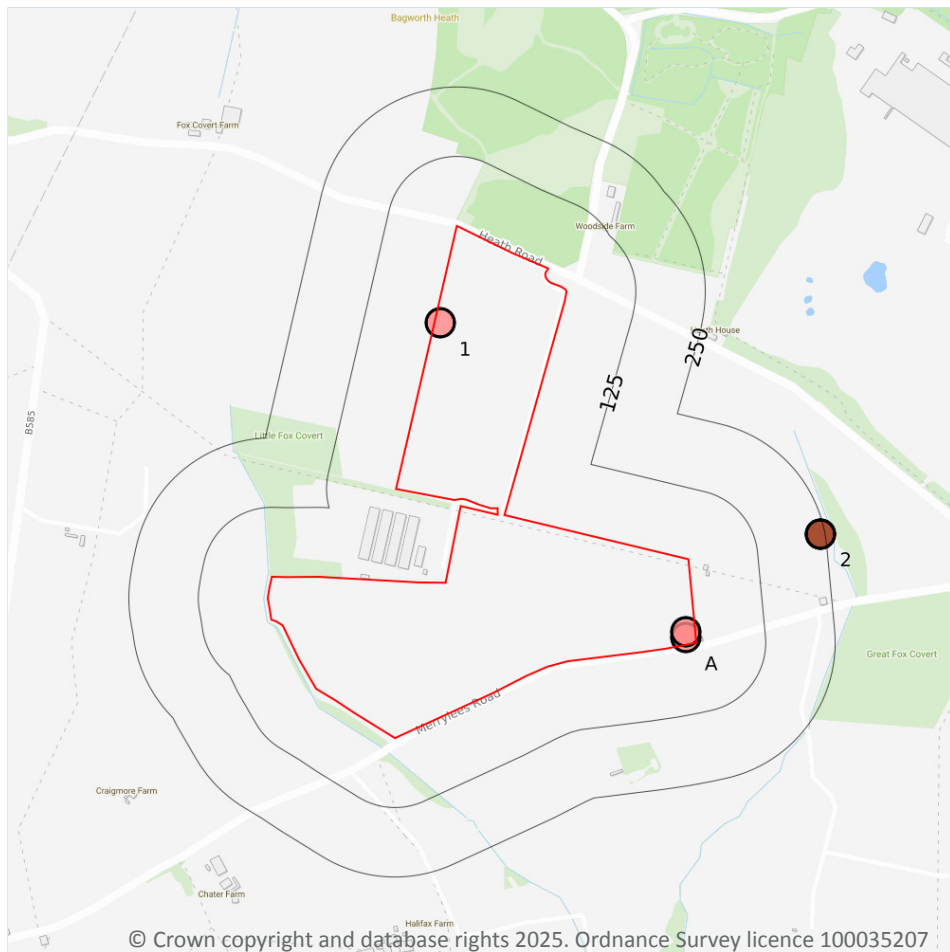
15.10 Bedrock faults and other linear features (50k)

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



— Site Outline
Search buffers in metres (m)

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

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16.1 BGS Boreholes

Records within 250m

4

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

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

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	445378 306236	LITTLE FOX DESFORD	124.0	N	216142 ↗
A	On site	445820 305670	DESFORD COLLIERY 5	99.77	N	216109 ↗
A	On site	445820 305680	DESFORD COLLIERY NO 5	99.77	N	216164 ↗

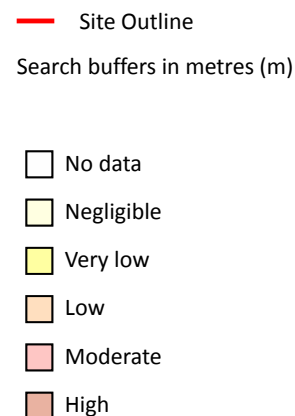
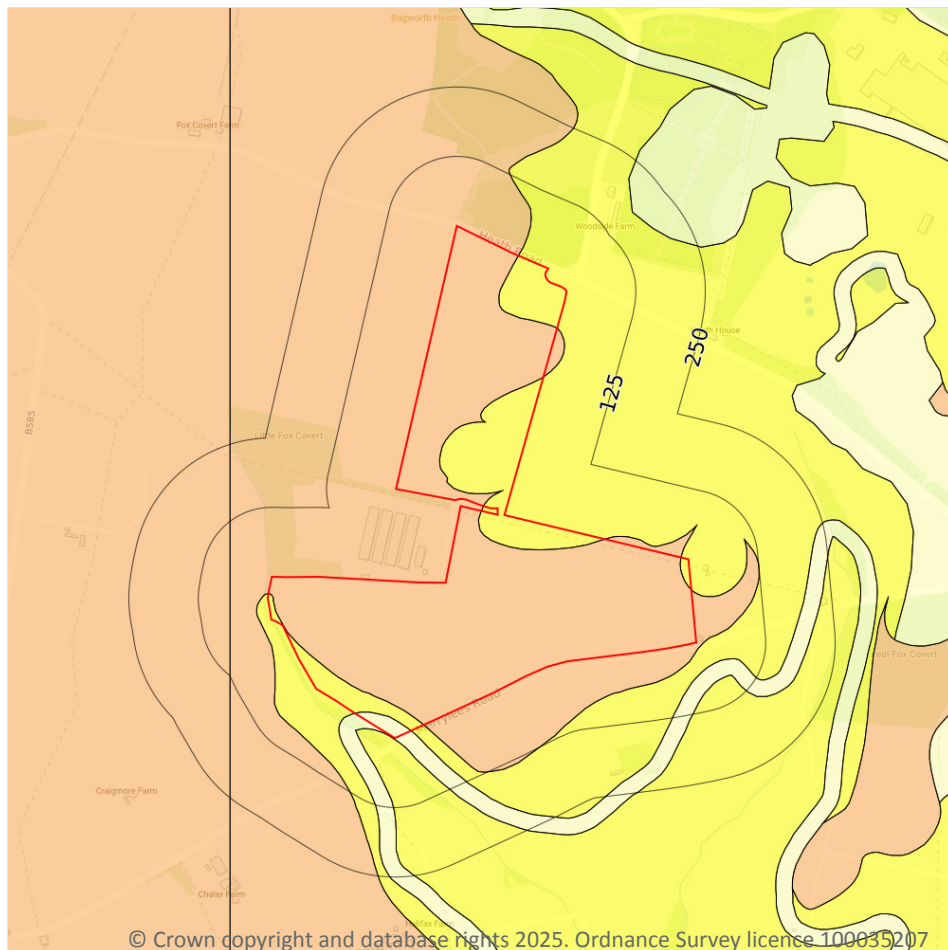


ID	Location	Grid reference	Name	Length	Confidential	Web link
2	243m E	446063 305857	DESFORD 2A UNDERGROUND	-1.0	N	216144 ↗

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 82 >](#)

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

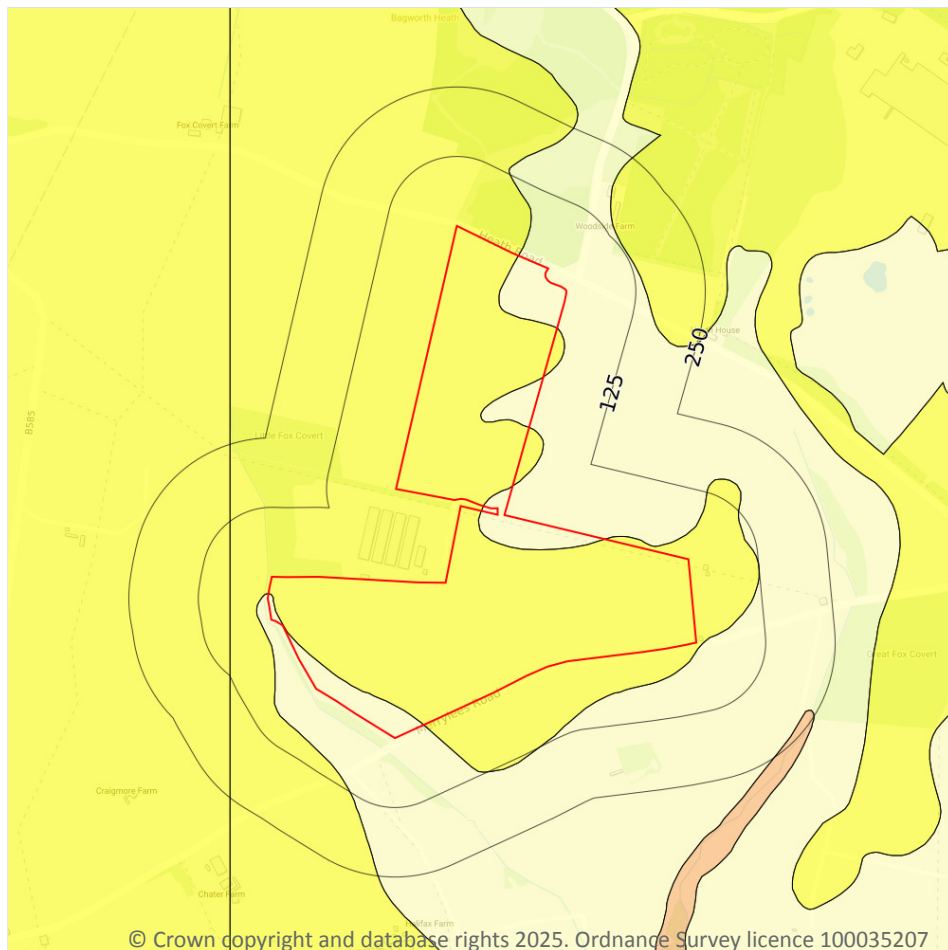


Location	Hazard rating	Details
2m SW	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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

17.2 Running sands

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Running sands map on [page 84 >](#)

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

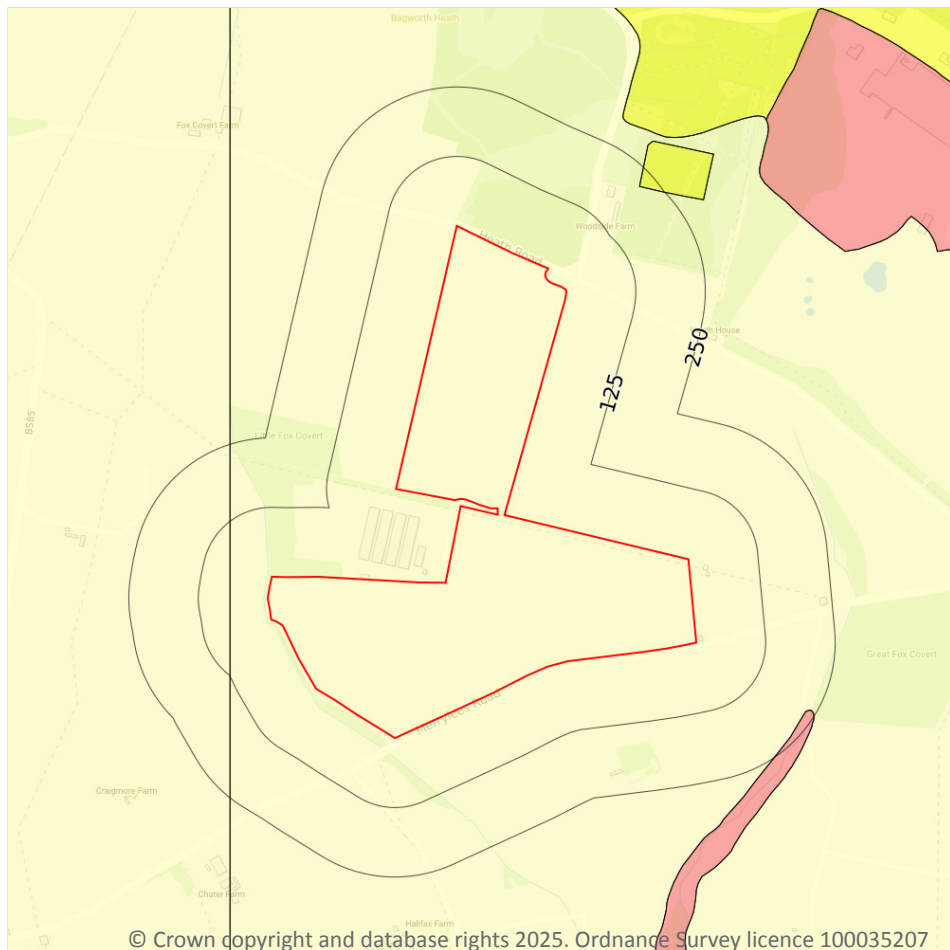


Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



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

17.3 Compressible deposits

Records within 50m

1

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

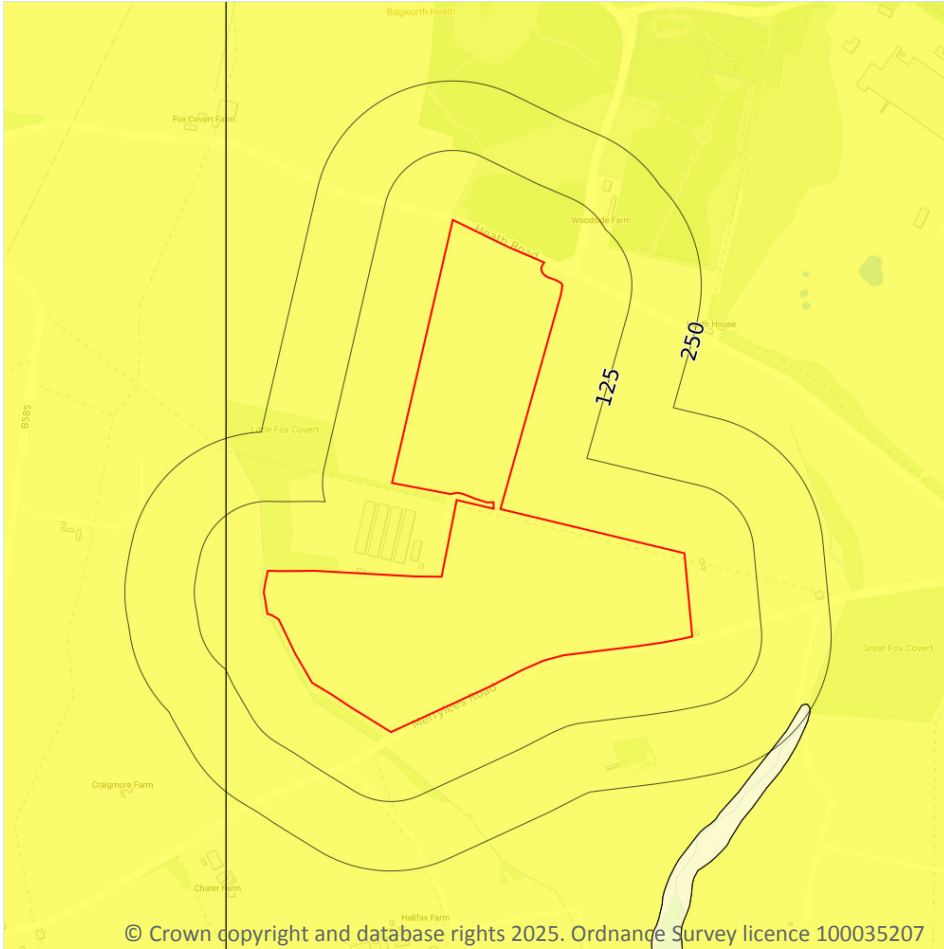
Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 86 >](#)

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



— Site Outline
Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m

1

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

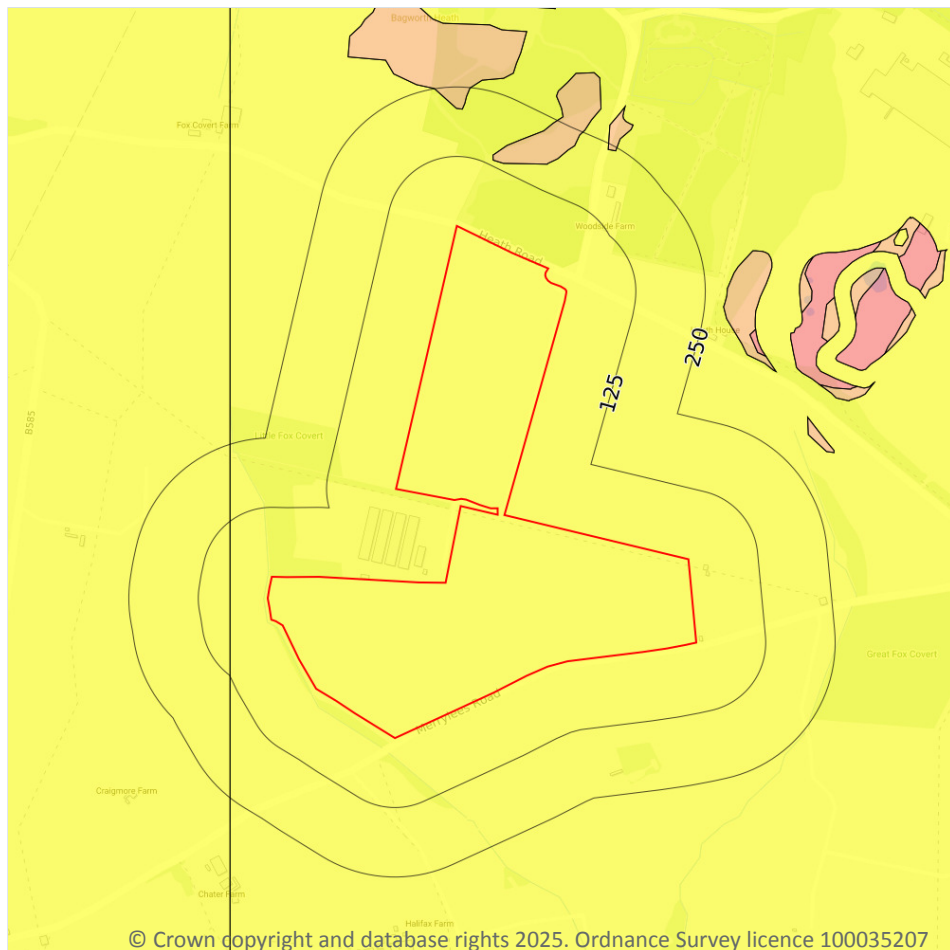
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 87 >](#)

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



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

17.5 Landslides

Records within 50m

1

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

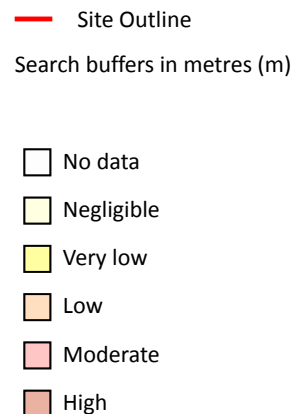
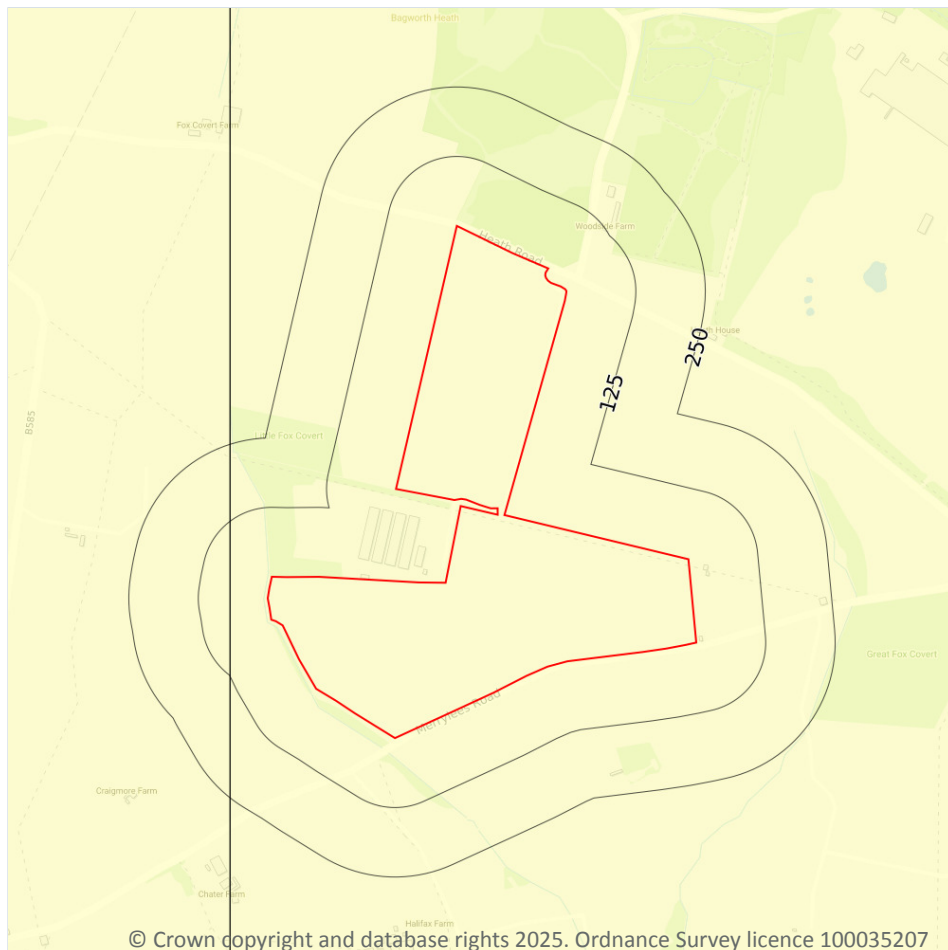
Features are displayed on the Natural ground subsidence - Landslides map on [page 88](#) >

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 89](#)

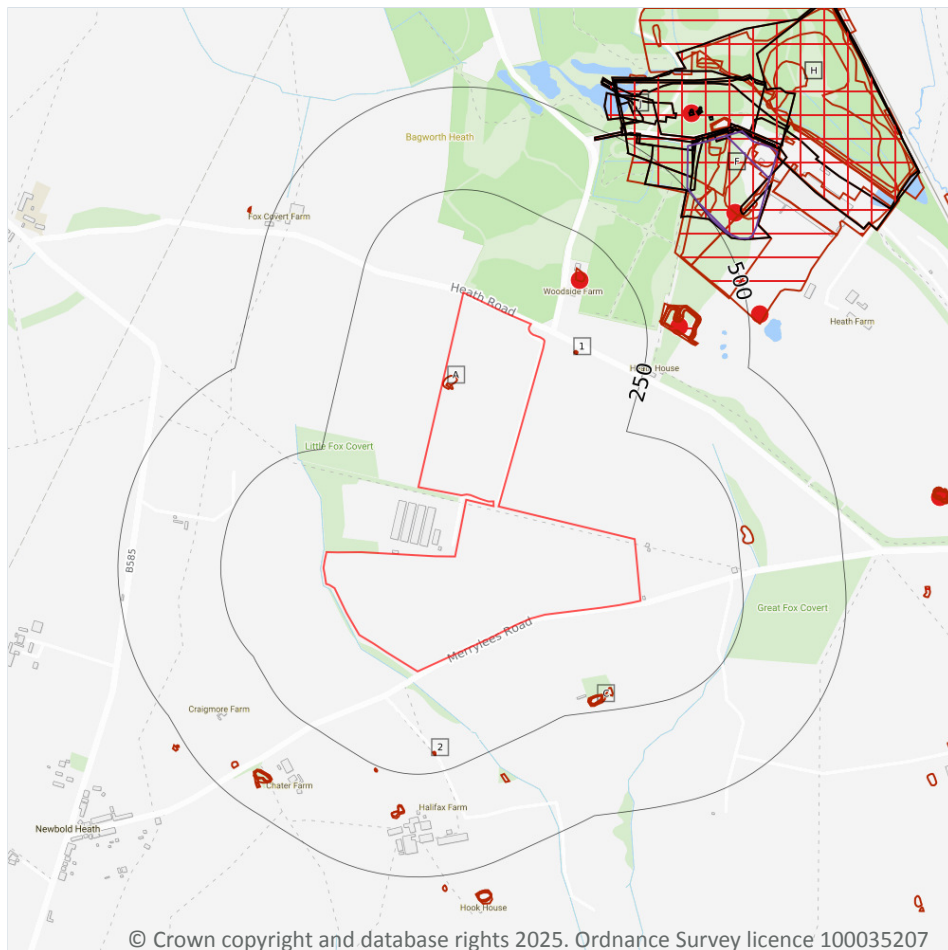
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



This data is sourced from the British Geological Survey.



18 Mining and ground workings



- Site Outline
- Search buffers in metres (m)
- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m

2

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

Features are displayed on the Mining and ground workings map on [page 91](#) >



ID	Location	Details	Description
B	160m N	Name: Heath Farm Gravel Pit Address: Merry Lees, Thornton, COALVILLE, Leicestershire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
D	329m NE	Name: Heath Farm Gravel Pit Address: Merry Lees, Thornton, COALVILLE, Leicestershire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	11
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Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining and ground workings map on [page 91](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Pond	1968	1:10560
A	On site	Pond	1930	1:10560
1	76m NE	Pond	1930	1:10560
B	154m N	Old Gravel Pit	1885	1:10560
C	196m SE	Pond	1984	1:10000
2	199m S	Pond	1931	1:10560
C	210m SE	Pond	1901	1:10560
C	210m SE	Pond	1885	1:10560
C	211m SE	Pond	1950	1:10560
C	211m SE	Pond	1968	1:10560
C	212m SE	Pond	1931	1:10560

This is data is sourced from Ordnance Survey/Groundsure.



18.3 Underground workings

Records within 1000m

15

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

Features are displayed on the Mining and ground workings map on [page 91](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
H	439m NE	Colliery	1968	1:10560
F	448m NE	Unspecified Workings	1968	1:10560
H	473m N	Colliery	1950	1:10560
I	512m NE	Colliery	1930	1:10560
I	515m N	Colliery	1919	1:10560
J	531m N	Colliery	1984	1:10000
I	560m NE	Colliery	1901	1:10560
I	638m NE	Unspecified Shafts	1930	1:10560
I	645m NE	Unspecified Shafts	1901	1:10560
I	652m NE	Unspecified Shafts	1919	1:10560
I	656m NE	Unspecified Shafts	1930	1:10560
I	661m NE	Unspecified Shafts	1919	1:10560
I	665m NE	Unspecified Shafts	1901	1:10560
-	895m E	Unspecified Mine	1968	1:10560
-	932m E	Colliery	1950	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m

0

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

This data is sourced from Groundsure.



18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

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 JPB mining areas

Records on site

1

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

Location	Details
On site	In addition to being located inside an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property which may supplement this information. Please note, the plans held by JPB may also relate to non-mining records. Further details and a quote for services (if appropriate) can be obtained by emailing this report to enquiries.gs@jpb.co.uk ↗.

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m

0

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

This data is sourced from The Coal Authority.



18.9 Researched mining

Records within 500m

0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m

0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m

0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site

1

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

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

This data is sourced from the Coal Authority.



18.13 Brine areas

Records on site	0
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The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

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

18.14 Gypsum areas

Records on site	0
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0
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Generalised areas that may be affected by kaolin and ball clay extraction.

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m

0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m

0

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

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

0

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

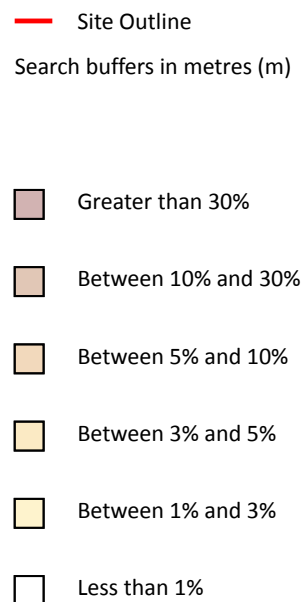
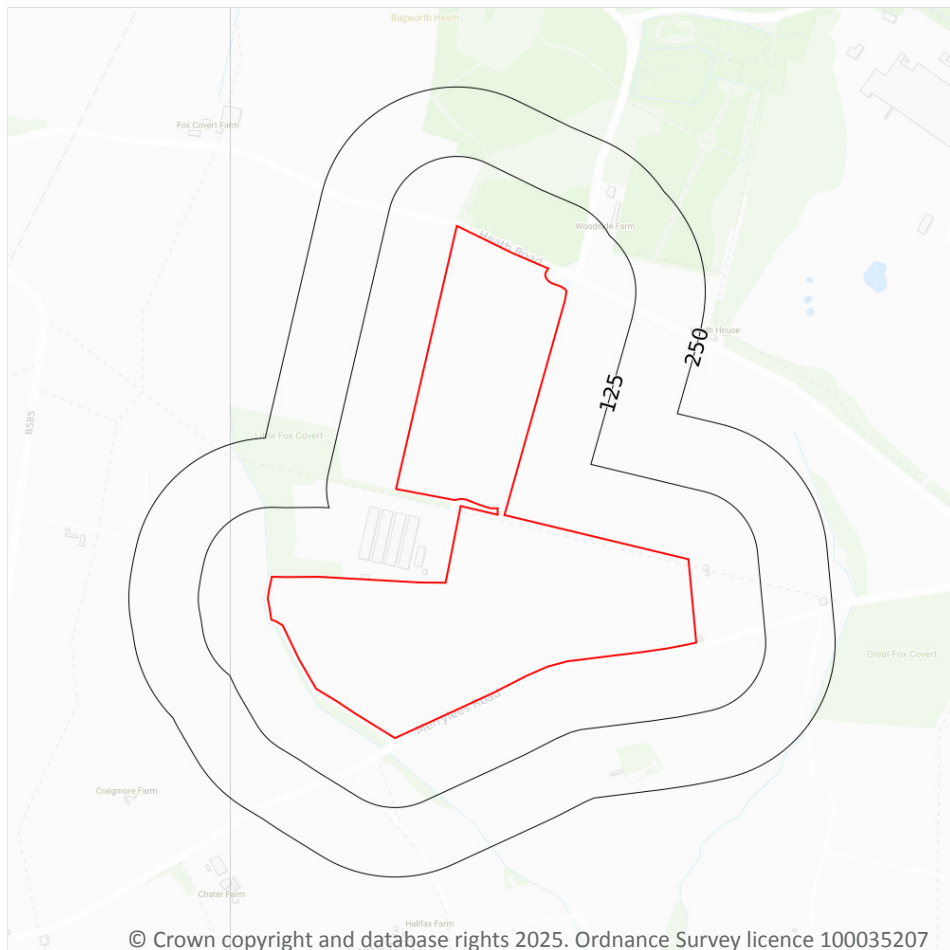
Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.



This data is sourced from Groundsure.



20 Radon



20.1 Radon

Records on site

1

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

Features are displayed on the Radon map on [page 99](#) >

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



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



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

24

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 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 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 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 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 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 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 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 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 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
7m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
13m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
37m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
39m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects

22.1 Underground railways (London)

Records within 250m**0**

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m**0**

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m**0**

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m**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.

22.5 Royal Mail tunnels

Records within 250m**0**

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



This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.9 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

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