

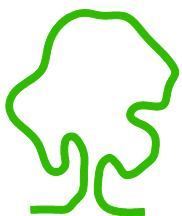
JESSICA MEED



**THE OLD PIGGERY, FRYERN ROAD, STORRINGTON
RH20 4BJ**

Preliminary Contamination Risk Assessment

August 2025



eas ltd

Environmental Assessment Services Ltd

REPORT DATA SHEET

Requirement	Data
Report Reference	822/MMEPlanning/TheOldPiggery/PCRA
Date	August 2025
Client	Jessica Meed
Report type	Preliminary Contamination Risk Assessment
Purpose	Planning Submission
Revisions	-
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CONTENTS

1. CAUTION
2. THE SITE & PROPOSED DEVELOPMENT
3. GEOLOGY & HYDROGEOLOGICAL CONSIDERATIONS
4. SITE DEVELOPMENT HISTORY
5. THE EXISTING SITE
6. RECORD DATA SEARCH RESULTS
7. POTENTIAL SOURCES OF CONTAMINATION
8. RISK ASSESSMENT
9. CONCLUSIONS
10. RECOMMENDATIONS

APPENDICES

APPENDIX A:	Figure 1:	Site Location Plan
	Figure 2:	Existing Site Layout
	Figure 3:	Proposed Site Layout
APPENDIX B:	Historic Maps	
APPENDIX C:	Photographs	
APPENDIX D:	GroundSure EnviroInsight Report	

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1. CAUTION

- 1.1 This investigation relies largely on a superficial examination of the site plus a review of information from Horsham District Council Planning Department (and Environmental Management), plus the Environment Agency (EA). Even where no previous contaminating activity has been identified, it is possible that the site could be contaminated due to fly tipping or other unrecorded events. The age of a building may indicate probability but cannot be treated as proof of the absence or presence of asbestos. This report does not attempt to comment on the commercial value or viability of the site.

2. THE SITE & PROPOSED DEVELOPMENT

- 2.1 The site comprises of a former piggery building, approximately 1.25km north of Storrington, located at the northern end of a small track accessed on the eastern side of Fryern Road. The site area is approximately 0.057 ha. The Ordnance Survey (OS) map reference for the site is TQ 0893 1560. The site elevation is approximately + 30 m. Appendix A Figure 1 for site location plan and Figure 2 for the existing site layout.
- 2.2 It is proposed to redevelop the existing agricultural building for use as a residential dwelling and erect a single storey extension from the rear of the property.
- 2.3 See Appendix A Figure 3 for proposed site plans.

3. GEOLOGY & HYDROGEOLOGICAL CONSIDERATIONS

- 3.1 According to the British Geological Survey (available online), the site lies on a bedrock of Cretaceous Weald Clay Formation – Mudstone, with superficial deposits of Quaternary Alluvium - Clay, silt, sand and gravel.

- 3.2 The Department for Environment, Food and Rural Affairs (Defra) online mapping (MAGIC) shows the site to lie on a bedrock of unproductive strata. The site does not lie within a groundwater Source Protection Zone (SPZ). The site is deemed to be of low hydrogeological sensitivity. (MAGIC Map)
- 3.3 According to the EA's online Flood map for planning, most of the site lies within Flood Zone 1 (low risk of flooding from rivers and / or the sea). The eastern boundary and approximately a quarter of the field north of the structure fall in Flood Zone 2 with the northeast tip of the site boundary falling in Flood Zone 3 (high risk of flooding from rivers and / or the sea). This is thought to be associated with the sluice and lake southeast of the site that tributaries to the river Stor. The site does not lie within 500 m of a watercourse classified as a main river by the EA. (Groundsure + Magic)

USEFUL INFO FOR SITES IN HORSHAM AREA ON THE WEALD CLAY

BEDROCK GEOLOGY – based on the BGS England and Wales Map Sheet 317 (drift) and local borehole records			
Group	Formation	Lithological Description	Expected Thickness (m)
Wealden Group	Weald Clay Formation	Dark grey thinly bedded mudstones (shales) and mudstones with subordinate siltstones, fine- to medium-grained sandstones, including calcareous sandstone (e.g., Horsham Stone Member), shelly limestones (the so called "Paludina Limestones") and clay ironstones.	Up to 457
Table notes: Weald Clay Formation thickness obtained from Map Sheet 301 (Map sheet above 317).			

HYDROGEOLOGY AND AQUIFER DESIGNATION	
Formation	Description
Weald Clay Formation	<i>Unproductive Strata</i> (mudstone/clay) with some <i>Secondary A Aquifer</i> (where sandstone and/or limestone bands are present). The hydrogeology of the Weald Clay Formation is complex and not well understood due to its heterogeneity. The formation is predominantly an impermeable clay, although the formation can contain thin, silty sandstones and limestones which may yield small local supplies (Jones et al., 2000). The thickest deposits of the Weald Clay Formation are in the area of the north-west and west Weald, and it is generally this area that has the greatest frequency of sandstone, ironstone, and limestone beds, representing fluvial and brackish water incursions (Jones et al., 2000).

4. SITE DEVELOPMENT HISTORY

- 4.1 The site development history is derived from a review of historic maps and other references. Historic maps centred on the site are provided in Appendix B, and a summary of the relevant information provided in these maps is given in Table 4.1.

TABLE 4.1
SITE DEVELOPMENT HISTORY

Map date (Scale)	Features on site	Features within surrounding area (<750 m)
1876 (1:2,500 and 1:10,560)	The site sits on the north / south boundary of two agricultural fields with the majority of the site being in the southern field. The eastern boundary runs parallel to a wooded track with some overlap in the northeastern corner of the site.	West Wantley Farm consisting of several agricultural buildings sits between 75 – 150m S of the site. Approximately 250m E of this is East Wantley Farm similarly consisting of several agricultural buildings. There is a lake ~100m SW of the site. Other farms in the surrounding area include Northlands ~400m E, Roundabout Farm ~700m N, and Perrett's Farm ~750m NW. Additional buildings in the area include Oldfield House ~400m NW, Lodge ~500m SW and an unnamed collection of buildings ~750m SW. Wells shown ~250m SE, ~400m N, ~400m NW adjacent to Oldfield House, ~500m SW adjacent to Lodge, and ~750m NW adjacent to Perrett's Farm. Greenhurst Common sits ~600m NE and Perrett's Copse ~750m NW. There is a pond ~250m W of the site. The majority of the surrounding area is agricultural fields with some small patches or borders of woodland.
1896 – 1897 (1:2,500 and 1:10,560)	The northern and southern agricultural fields have been merged into one and the eastern border has been cleared of trees and straightened.	An Old Sand Pit is noted ~750m N of the site. The easternmost building at West Wantley Farm has been restructured. The northwestern side has been extended to meet the structure to its north, and the northeastern section has been demolished. Some of the surrounding fields have been merged or adjusted borders.
1909 - 1914 (1:2,500 and 1:10,560)	No discernible changes on site.	The westernmost building at West Wantley Farm has been restructured. The southern extension has been demolished.

		Wells have been constructed; one north of East Wantley Farm, and two near Roundabout Farm. Hareswith Pond sits ~400m N of the site. Padgets Wood sits ~650m NE of the site.
1937 – 1938 (1:2,500 and 1:10,560)	The piggery has been constructed and takes up most of the southeast site boundary. The remainder of the site is divided across two plots of land, the northern boundary and southwestern corner.	The field the site sits in has been separated into four separate plots and three buildings have been built in the field: one ~50m S of the site, and two in the SW corner of the field, ~175m SW of the site. Additional residences have been constructed near to Oldfield House ~400m NW and on a new road, Melton Drive, ~450m S. The village of Merryfield and associated residential dwellings sit ~750m S of the site. A tank and windpump are noted ~600m N. Hareswith Pond now has a dam.
1939 – 1945	No recorded war-time incidents or activities affecting the site.	No recorded war-time incidents or activities affecting the surrounding area.
1946 (1:10,560)	No information regarding the site can be inferred from this map.	The eastern surrounding area remains unchanged. No other relevant information can be inferred regarding the surrounding area from this map.
1961 (1:10,560)	No discernible changes on site.	A new building has been constructed approximately ~200m NW of the site in the adjacent field. The two buildings, ~450m S of site, three fields down from site have been demolished. The angle of the road for Melton Drive has been changed and 13 new houses have been constructed on Melton Drive. 3 new houses have been constructed in Merryfield. A depot consisting of 7 new buildings has been constructed ~600m SE of the site on Water Lane. A Roman road has been identified near Padgets Wood.

1973 (1:2,500)	The building has been extended and now fills the entire site area with 7 pens along the southern border.	4 new buildings have been constructed at West Wantley farm ~100m S of the site, one of which being a poultry farm. Additionally, 2 agricultural buildings have been constructed in a field ~100m E and a nursery has been developed ~200m SE. An additional building has been constructed ~200m SW. 2 more residential properties have been developed ~250m NE of site, Fulwood and Little Wantley.
1979 (1:2,500)	No information regarding the site can be inferred from this map.	A shelter has been built ~150m E in a field.
1980 (1:10,000)	No discernible changes on site.	A few more residential houses have been constructed ~400m NW near West Chiltington Road and a lot of residential housing has been constructed between 500 and 750m S including new roads. 13 more industrial units have been constructed between 500 and 750m SE.
1982 (1:2,500)	No information regarding the site can be inferred from this map.	No discernible changes on surrounding area.
1993 (1:2,500)	No discernible changes on site.	2 additional buildings have been constructed as part of the poultry farm.
1995 (1:2,500)	4 of the southeastern pens have been demolished.	The two long buildings adjacent to Green Bungalow have been demolished and the poultry farm has been extended to connect all relevant buildings. An additional building has been constructed ~125m S.
2001 (1:10,000)	No discernible changes on site.	More residential housing 500 and 750m S including new roads, and ~750m N on Spinney Lane and adjacent to Roundabout Farm.
2003 (1:1,250)	No discernible changes on site.	No discernible changes on surrounding area.
2010 (1:10,000)	No discernible changes on site.	No discernible changes on surrounding area.
2025 (1:10,000)	No discernible changes on site.	More residential housing ~400m NW. 2 new industrial units ~750m E.

4.2 The post war development history may also be traced from the planning history of the site. The significant applications relating to the site are summarised in Table 4.2.

TABLE 4.2
A SUMMARY OF RECENT PLANNING APPLICATIONS

Ref. Nos.	Description	Decision & Date
DC/04/0794	Conversion of redundant building to stabling, erection of 5 stables and grooms' accommodation and barn	10/06/2004 w
DC/19/2433	Conversion of existing barn to a detached dwelling with associated parking and erection of a single storey rear extension	30/01/2020 x
DC/24/1153	Prior Notification for Change of Use of Agricultural Building to a single dwellinghouse (C3 Use class).	13/09/2024 ✓
DC/24/1810	Prior Notification for Change of Use of an Agricultural Building with erection of a single storey rear extension to 1no dwellinghouses (C3 Use Class).	15/01/2025 x
DC/25/0434	Prior Notification for Change of Use of an Agricultural Building with erection of a single storey rear extension to 1no dwellinghouse (C3 Use Class).	12/06/2025 ✓
HRA/25/0017	Application under Regulation 77 of the Conservation of Habitats and Species Regulations 2017 relating to Prior Approval consent DC/25/0434	?

Key:

- ✓ planning permission granted
- x planning permission refused
- r registered
- w withdrawn

- 4.3 More recent development history and land use can also be observed from recent aerial photographs. Aerial photographs centred on the site are provided in Appendix D, GroundSure EnviroInsight Report, and a summary of the relevant information provided in these photographs is given in Table 4.3.

TABLE 4.3
A SUMMARY OF RECENT AERIAL PHOTOGRAPHS

Photo date	Features on site	Features adjacent to the site
29/08/1999	Site use as existing.	No significant features.
22/08/2009	Site use as existing.	No significant changes.
13/09/2012	Site use as existing.	No significant changes.
26/06/2018	Site use as existing.	Trees have been cleared, and a residential building has been constructed south of the site along with roundabout. A riding

		arena / sand school has been developed southwest of the site.
22/04/2021	Site use as existing.	No significant changes.

5. THE EXISTING SITE

- 5.1 The site was visited on 5 August 2025. Photographs of the site are provided in Appendix C.
- 5.2 The site comprises of a former piggery accessed by a thin track off of Fryern Road, separated by a metal gate and broken fence.
- 5.3 The layout is several segmented open shelter areas accessed from the north with the pig pens separated by short walls in the southwest with access to additional sheltered areas with trough. Externally most of the floor is concreted except for a small tarmac strip extending from the access gate and some exposed soil near the pig pens. Some cracks in the hard surfacing were noted as vegetation could be witnessed growing through.
- 5.4 The building is originally of timber structure but now has some steel beams in some areas. The external cladding is red brick entirely in the western half of the structure and for the lower walls on the eastern side. The upper walls are clad in timber except for the eastern half of the southern façade which is clad in corrugated steel. Internal walls are mostly the same as their external counterparts, however one has been repaired with MDF. The roof appears to be clad in asbestos cement panelling. Flooring is exposed soil in the eastern half of the building with the western half of the structure having a concrete floor.
- 5.5 Evidence for water and electricity supply were witnessed including a tap, power switch, wiring and lighting.
- 5.6 Adjacent land is residential south of the property and used for animal grazing and pastoral purposes in all other directions. Nearby habitats would be considered mostly Acid, Calcareous, Neutral Grassland or Improved Grassland with some Broadleaved, Mixed and Yew Woodland following the treeline adjacent to the track. There is a lake 100m south of the site and sluice running east adjacent to the access track.
- 5.7 The site is mostly unused except to store small amounts of agricultural / construction materials and waste. Waste included asbestos cement panels, rusted metal drum, rusted iron trough, pile of plastic pipes, assorted lumber, old tools, car battery, wire fencing, car tyre inner tube and empty tin of motor oil less than 5l in size.

6. RECORD DATA SEARCH RESULTS

6.1 An environmental records search (Enviro-Insight Report) has been prepared for the site. The GroundSure EnviroInsight Report is provided in Appendix D and any items of potential contamination significance highlighted below.

6.1.1 *Past Land Use*

There is 1 record of potentially contaminative land use recorded from standard 1:10,000 and 1:10,560 scale historic mapping within 500 m of the site. This being cuttings, located 316m E of the site.

There are no records of tanks from 1:1,250 and 1:2,500 scale historic maps within 500 m of the site.

There are no records for historical energy features from 1:1,250 and 1:2,500 scale historic maps within 500 m of the site.

There are no records for historical petrol stations from 1:1,250 and 1:2,500 scale historic maps within 500 m of the site.

There are no records for historical garages from 1:1,250 and 1:2,500 scale historic maps within 500 m of the site.

6.1.2 *Waste and Landfill*

There is one record of an Environment Agency (EA) historic landfill site within 500 m of the site. This is inert, industrial landfill, 399m E of the site.

There are no records of active or recent landfill, historic landfill, historic waste sites or licensed waste sites within 500 m of the site.

There are records of 22 activities involving the storage, treatment, use or disposal of waste within 500 m which are exempt from needing a permit. These waste exemptions include:

- Disposal via deposit of agricultural waste consisting of plant tissue under a Plant Health notice, incineration, burning waste in the open, or deposit of waste from dredging of inland waters.
- Storage of waste in secure container or secure place.
- Treatment via screening and blending of waste, aerobic composting and associated prior treatment, or by chipping, shredding, cutting or pulverising waste wood and waste plant matter

- Usage of waste via spreading waste on agricultural land to confer benefit, burning of waste as a fuel in a small appliance, in construction, or for a specified purpose.

6.1.3 *Current Industrial Land Use*

There is a record of current potentially contaminative industrial sites within 250m, this being the poultry farm 63m S.

There are no records of current or recent petrol stations within 500m.

There are no records of electricity transmission cables within 250 m.

There are no records of gas pipelines within 500 m.

The site has not been determined as Contaminated Land under Part 2a of the Environmental Protection Act 1990, and there are no such sites within 500 m of the site.

There are no records of Control of Major Hazards (COMAH) sites, regulated explosive sites, hazardous substances storage / usage sites, historic licensed industrial activities, licensed industrial activities, licensed pollutant release, radioactive substance authorisations, pollutant release to surface waters, pollutant release to public sewer, list 1 or 2 dangerous substances within 500 m.

There are 2 records of licenced discharges to controlled waters within 500 m of the site. These are 315 m E and 373 m N of the sit and both are final / treated effluent sewage discharges into a freshwater river.

There are 3 records of pollution incidents within 500 m of the site. These include record of a category 3 (minor) water impact incident 37 m SE of the site, and 2 records of category 3 (minor) air, water and land impact incidents, grey water sewage materials pollution 336 m NW and metal wastes pollution 485 m NE.

There are no pollution inventory records within 500 m of the site.

6.1.4 *Hydrogeology, Hydrology and Flood Risk*

The site lies within a Secondary A superficial aquifer. The superficial geology at the site comprises 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. The superficial aquifer is of medium vulnerability.

The site lies within an unproductive bedrock aquifer. These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.

There are no surface water abstraction licences within 2000 m of the site, however there are 23 groundwater and 8 potable water abstraction licences within 2000 m of the site. The nearest water abstraction licence is located 604 m SE of the site and is for both groundwater and potable water.

The site does not lie within a groundwater Source Protection Zone (inner and outer catchment).

The site lies within 20 m of a main river (as identified by the EA). The EA should be consulted regarding any development within 20 m of a main river.

The site is considered to be of low flood risk category from flooding from rivers and the sea (less than 1 in 100 but greater than or equal to 1 in 1000 chance). The site lies partially within Flood Zone 2 and is close to Flood Zone 3 associated with the inland river east of the access road.

The site is considered to be of low risk of groundwater flooding and negligible risk of surface water flooding.

6.1.5 *Environmental and Habitat Designations*

There are records of 4 designated sites of special scientific interest (SSSI) within 2000 m of the site. These include Sullington Warren SSSI 1017 m SE, Hurston Warren SSSI 1501 m NW, Chantry Mill SSSI 1667 m S and Parham Park SSSI 1930 m W.

The site lies within a SSSI Impact Zone. There is potential for the proposed development to have a harmful effect on terrestrial Sites of Special Scientific Interest (SSSIs) and those Special Areas of Conservation (SACs), Special Protection Areas (SPAs) or Ramsar sites that they underpin. Therefore, Natural England should be contacted for advice on the nature of the potential impacts and how these might be avoided or mitigated.

The site does not lie within a Nitrate Vulnerable Zone. Nitrate Vulnerable Zones are designated as being at risk from agricultural nitrate pollution and were introduced in order to reduce the levels of nitrates in water. The proposed development, from agricultural to residential use, is not considered likely to increase the risk of nitrate pollution.

There are 7 records of Priority Habitat within 250 m of the site. This includes 5 records of deciduous woodland at 5 m N, 7 m E, 9 m E, 12 m E, and 88 m SE, traditional orchard 236 m SE and additional habitats present 214 m SE.

6.1.6 *Natural Hazards Findings and Mining*

There is low, very low or negligible risk rating for most natural hazards (shrink-swell, landslide, soluble rocks, collapsible rocks and running sand) within 50 m of the site as identified from BGS GeoSure Data. However, there is a moderate risk of compressible deposits on site. Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

There are no records of BritPits within 500 m.

There are 3 records of non-coal mining within 1000 m. These include on site Class B iron ore mining and sand extraction 104 m S and 596 m S.

The site is not within a radon-affected area. No radon protective measures are necessary.

7. POTENTIAL SOURCES OF CONTAMINATION

7.1 Land use history at the site has comprised:

- Agricultural land, 1875 - 1937
- Pig farm, 1937 – Unknown
- Vacant, Unknown – Present day

7.2 Potential contamination from historic land use is associated with historic and recent agricultural use. Contamination risk from historic agricultural fields is considered to be negligible.

7.3 Post-development of the piggery included the housing of livestock and storage of feed and bedding. Contamination risk from this is also considered to be very low.

7.4 The structure could contain asbestos in the roof cladding and could therefore be a contamination risk. This should be surveyed to confirm / disprove presence before construction works occur.

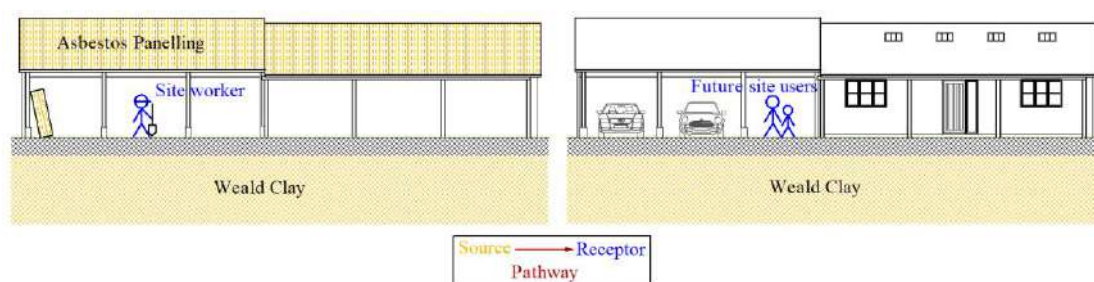
7.5 There is a potential contamination risk from the current use of the site for storage of waste and construction materials. A possible source of hydrocarbon contamination would be the discarded can of motor oil on exposed soil. This is considered to be a low risk however as no evidence of a spill was witnessed and it is a small quantity.

7.6 There is a very low possibility of a contamination risk caused by historic mine activity onsite.

8. RISK ASSESSMENT

- 8.1 The risk to future site users can be assessed using the Conceptual Model. This comprises three elements, all of which must be present for there to be a risk. The three elements of the model are; a *source* of a potentially hazardous contaminant, a *pathway* by which the contaminant can be transmitted and a *receptor* on which the contaminant may have a harmful effect. A conceptual model for the site is given in Diagram 8.1 below:

DIAGRAM 8.1
CONCEPTUAL MODEL



8.2 Source

- 8.2.1 From a review of available information, it is considered that there is some potential for asbestos contamination at the site (*roof cladding and loose panelling*).

8.3 Receptor

- 8.3.1 It is proposed to redevelop the site for residential use not including gardens / soft landscaping. In this case, potential *receptors* may include site workers (during the development and future maintenance of the site), future site users (considered to include children), buildings and services (including underground water mains) and the wider environment (considered *not* to be particularly hydrogeologically sensitive).

8.4 Source – Receptor Pathway

- 8.4.1 Site workers (notably demolition and ground workers) may come into contact with building materials containing asbestos, contaminated soil, groundwater and/or soil gas during the development of the site. Appropriate industrial hygiene measures will be required to reduce the risk of exposure to workers during the development phase.
- 8.4.2 There are no proposed garden or soft landscaping areas. Therefore, in the absence of remediation, future site users should not come into contact with the underlying soil or groundwater.

- 8.4.3 Future site users may be exposed to tainted water supplied via underground mains to the site where any contamination with potential to degrade the pipes (such as hydrocarbon contamination) is present along the line of the water mains (see current UKWIR guidelines). Those involved in the laying of underground water supply pipes should satisfy themselves that either the route of the water main is free from contamination or appropriate barrier pipework is used.
- 8.4.4 Underground structure and service mains may be damaged by contamination and contamination may leach from the site effecting the wider environment.
- 8.4.5 Old fill materials can contain levels of sulphate which pose a risk to concrete, which may include new building foundations.
- 8.4.6 Petrol, diesel and some fuel additives (such as MTBE) are highly mobile and may cause contamination of the wider area.
- 8.5 Potential contaminant linkages between source, pathway and receptor for the site are summarised in Table 8.1 below.

TABLE 8.1
POTENTIAL CONTAMINANT LINKAGES

Source		Pathway	Receptor	Risk
Contaminated soil	Contaminated groundwater			
Unknown contamination risk	Minimal contamination risk	Contact with contaminated soil, groundwater or soil gas	Existing and future site users	?
		Ingestion of or skin contact with contaminated soil, dust or groundwater	Maintenance or construction workers engaged in groundworks on the site	?
		Contact with contaminated soil or groundwater	Building & services	?
		Leeching of site contaminants into groundwater	Wider environment	×

Key: ✓ Significant risk × No significant risk ? Uncertain risk

- 8.6 An asbestos survey is required to determine the presence of the material on site. If this is shown to be the case, further quantitative data will be required from onsite soil / groundwater sampling and analysis to confirm the presence / likely absence of contamination and assess the likely impact on receptors.

9. CONCLUSIONS

- 9.1 The site lies on Alluvium clay, silt, sand and gravel, which is a Secondary A Aquifer at this location, over unproductive bedrock of Weald Clay. The site does not lie within a groundwater Source Protection Zone and is low hydrogeological sensitivity.
- 9.2 The site is not considered to be at significant risk of ground gas at this time. (Potential sources of ground gas include landfill sites and made ground with some putrescible content; leaks, spills and discharges from underground tanks; sewage sludge, dung pits/heaps; burial grounds; mine workings; foundry sands; natural gas supplies; natural ground including organic-rich alluvial deposits, carbonate-rich strata and radon affected areas). The site does not lie within 250 m of waste disposal landfill.
- 9.3 The land use history at the site does not identify activities with a significant contamination risk. There have been activities with some contamination risk adjacent to the site. The risk of these adjacent historic activities adversely affecting the site is considered to be fairly low.
- 9.4 There is some possibility that the roof cladding may include asbestos containing materials. An asbestos survey will need to be performed to confirm presence / absence and if so, further intrusive investigation will be required to assess any contamination of the soil.
- 9.5 The site is not within a radon-affected area.
- 9.6 The overall environmental risk for the site is rated according to the risk assessment matrix in Table 9.1 below:

TABLE 9.1
RISK ASSESSMENT MATRIX

PROBABILITY OF IMPACT	CONTAMINATION POTENTIAL		
	SEVERE	MODERATE OR UNCERTAIN	MINIMAL
High	4	3	2
Medium	3	2	1
Low	2	1	1

1 = low risk, 2 = low to moderate risk, 3 = moderate to high risk, 4 = high risk.

- 9.7 In this case, no contamination has been identified, although there remains some uncertainty related to presence of asbestos. The probability of impact is medium due to the mix of hard cover and exposed soil and low hydrogeological sensitivity of the underlying soil. The overall risk rating for the site is 2, low to moderate.

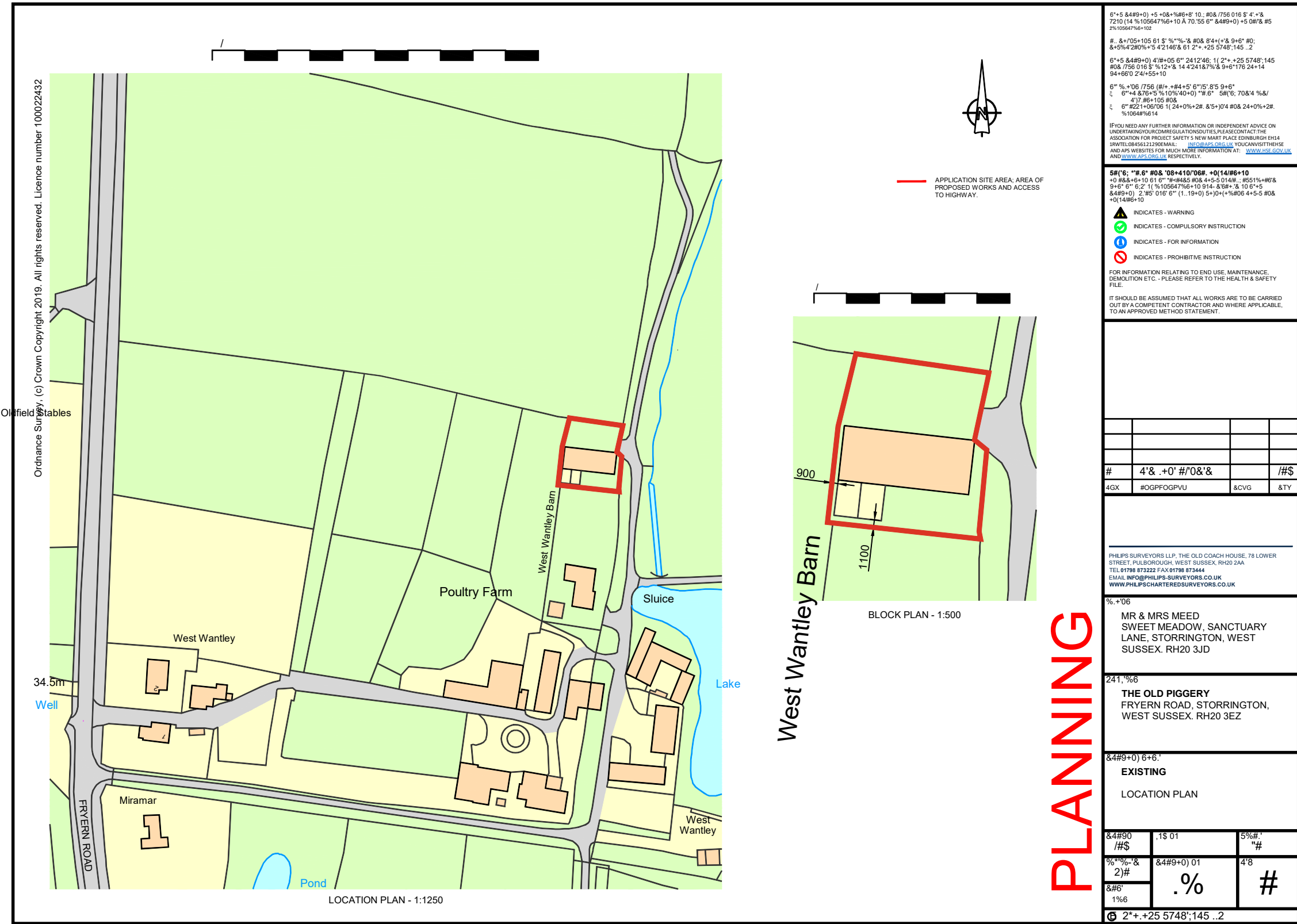
10. RECOMMENDATIONS

- 10.1 Further intrusive site investigation is recommended in this case.
- 10.2 It is recommended a pre-demolition / refurbishment survey is completed in accordance with HSG264 prior to the commencement of works and, where asbestos containing materials are confirmed to be present, a remedial mitigation scheme to control risk to future site users should be prepared and implemented as appropriate.
- 10.3 Should any unexpected contamination be identified during the development phase, the Horsham District Council should be notified and any necessary remediation work carried out as required.

☆☆☆☆☆☆

APPENDIX A FIGURES

FIGURE 1:	Site Location Plan
FIGURE 2:	Existing Site Layout
FIGURE 3:	Proposed Site Layout



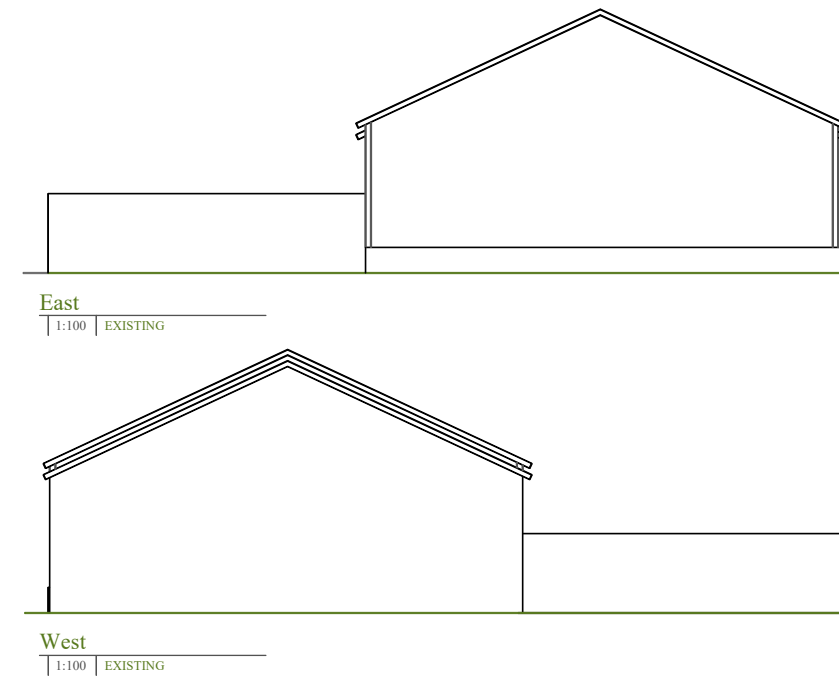
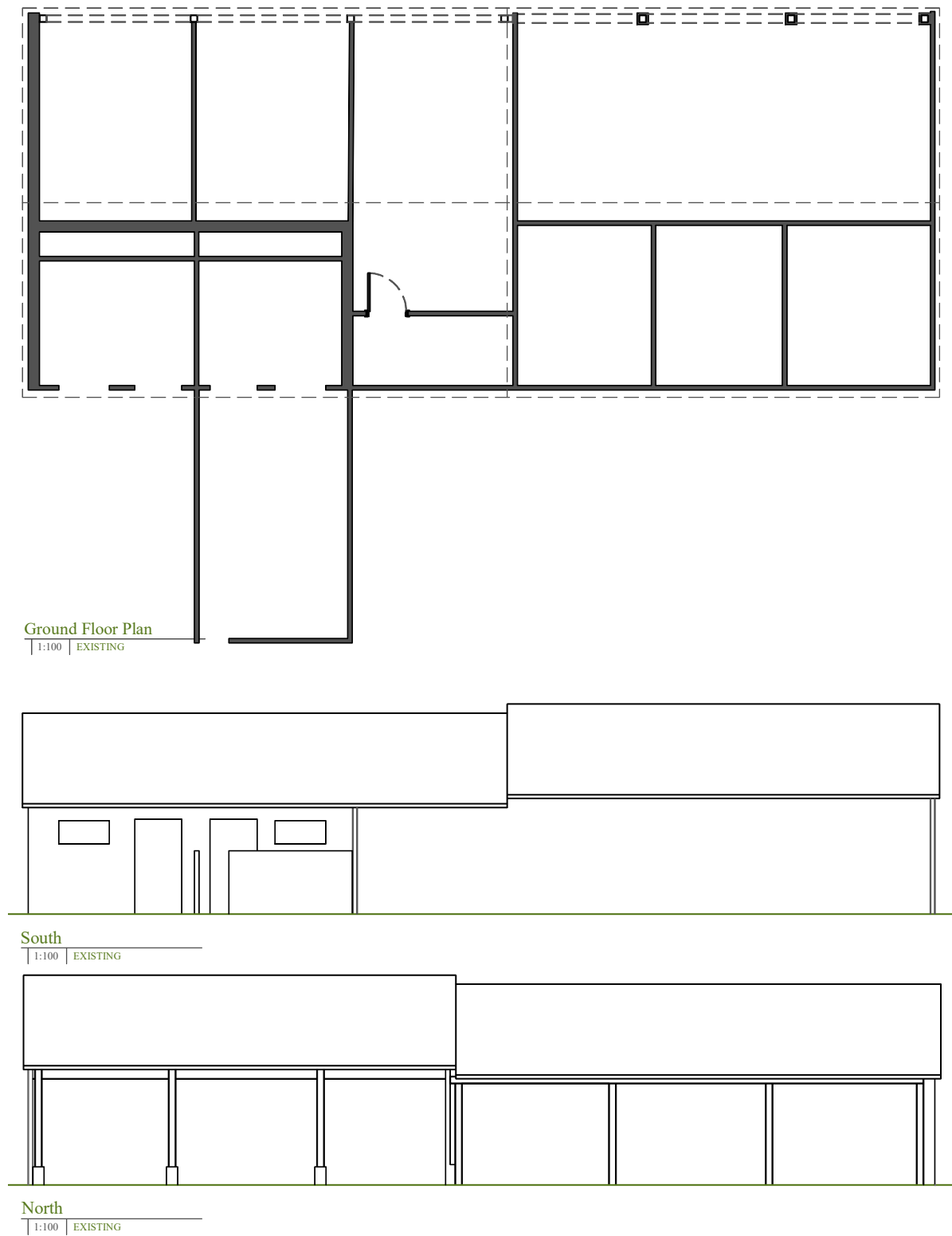
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Figure 1: Site Location Plan

Scale as shown

August 2025



This drawing is the copyright of Manorwood Construction Ltd but may be used for planning purposes by the Local Authority without breach of copyright.

Do not scale from this drawing unless for Local Authority planning purposes.

All dimensions must be checked on site prior to commencement of works.

Construction (Design and Management) Regulations 2015

This drawing is intended for Planning purposes only and as such does not highlight residual design related health and safety risks.

This information can be provided on request; however, it is anticipated that the full extent of residual risks will be identified during the detailed Building Regulations or construction design Status and prior to construction works commencing on site.

All responsibilities and duties of Principle Designer as stated within the above regulations now revert to the client unless Manorwood are appointed to undertake Building Regulations or construction drawings.

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Job No. 2406OL_R3

Drawn By MD

Checked By BK

Drawn On 17.03.2025

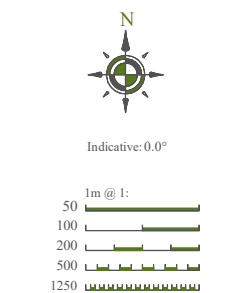
Issued On 17.03.2025

Status Existing

Drawing Ground Floor Plan

Submission **Planning**

Revision 000



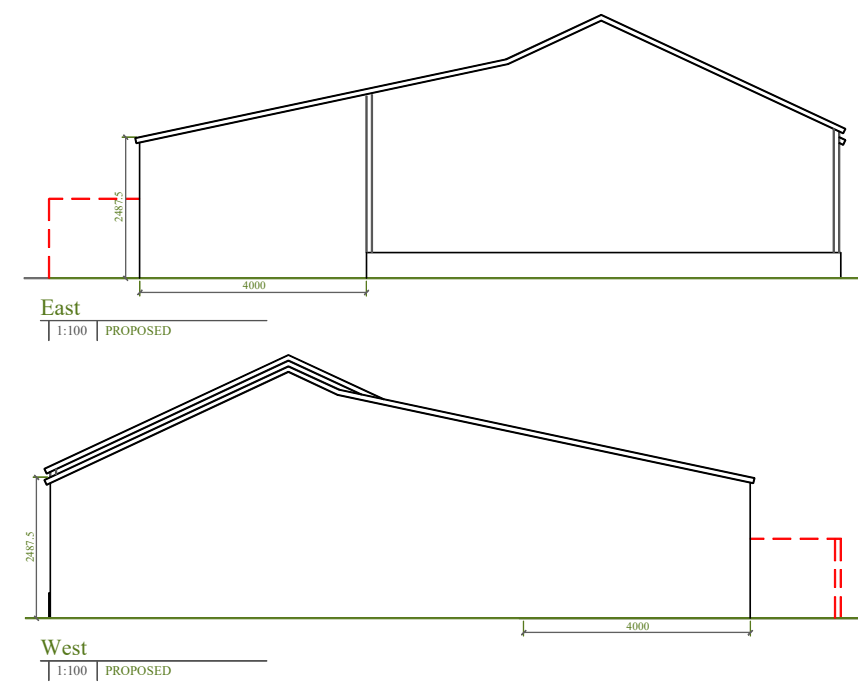
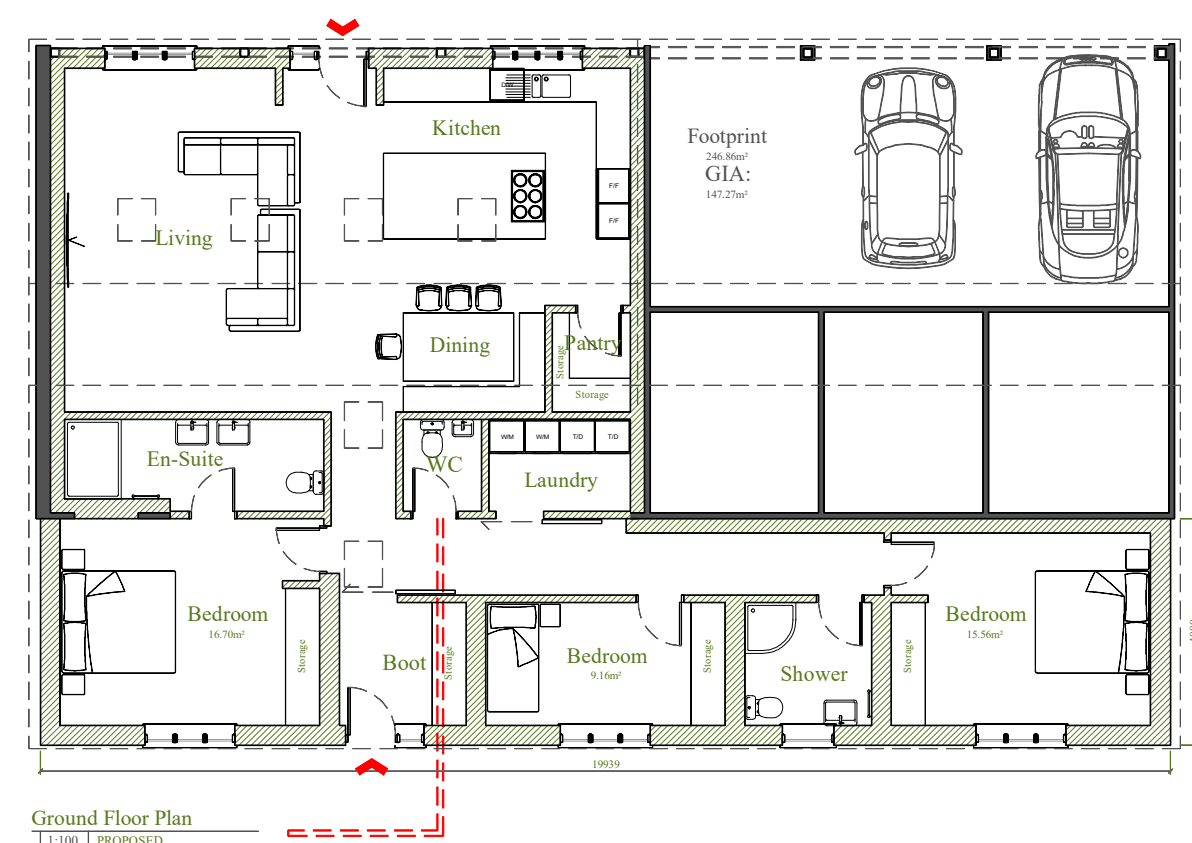
JESSICA MEED

THE OLD PIGGERY, FRYERN ROAD, STORRINGTON, RH20 4BJ

Figure 2: Existing Site Layout

Scale as shown

August 2025



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Do not scale from this drawing unless for Local Authority planning purposes.

All dimensions must be checked on site prior to commencement of works.

Construction (Design and Management) Regulations 2015

This drawing is intended for Planning purposes only and as such does not highlight residual design related health and safety risks.

This information can be provided on request; however, it is anticipated that the full extent of residual risks will be identified during the detailed Building Regulations or construction design Status and prior to construction works commencing on site.

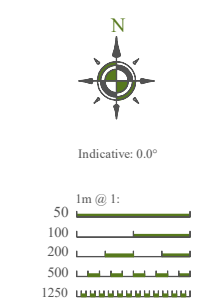
All responsibilities and duties of Principle Designer as stated within the above regulations now revert to the client unless Manorwood are appointed to undertake Building Regulations or construction drawings.

Suite 114
26 The Homest
Chichester
West Sussex
PO19 7BB

tel: 01243 201 102
email: enquiries@manorwood.co.uk
web: www.manorwood.co.uk

Address
The Old Piggery, Fryern Road,
Storrington RH20 4BJ

Drawing No. 2406OL_R3_200
Scale @ A3 1:100
Job No. 2406OL_R3
Drawn By MD
Checked By BK
Drawn On 17.03.2025
Issued On 17.03.2025
Status Proposed
Drawing Ground Floor Plan
Submission Planning
Revision 000



JESSICA MEED

THE OLD PIGGERY, FRYERN ROAD, STORRINGTON, RH20 4BJ

Figure 3: Proposed Site Layout

Scale as shown

August 2025

APPENDIX B

Historic Maps

Site Details:

THE OLD PIGGERY,
NORTHLANDS LANE,
STORRINGTON, WEST SUSSEX,
RH20 3EZ

Client Ref: 822
Report Ref: HMD-47-SGM-O6J-QDW-VQC
Grid Ref: 508936, 115603

Map Name: County Series

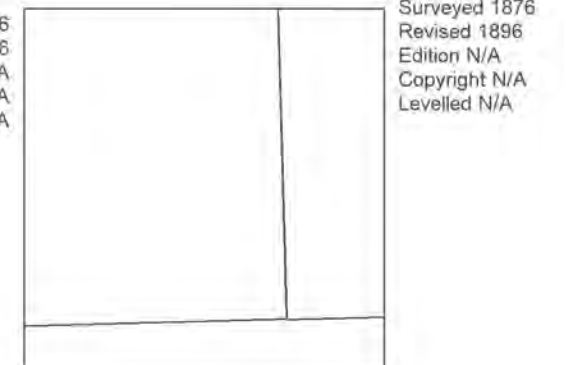
Map date: 1896

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1896
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1876
Revised 1896
Edition N/A
Copyright N/A
Levelled N/A

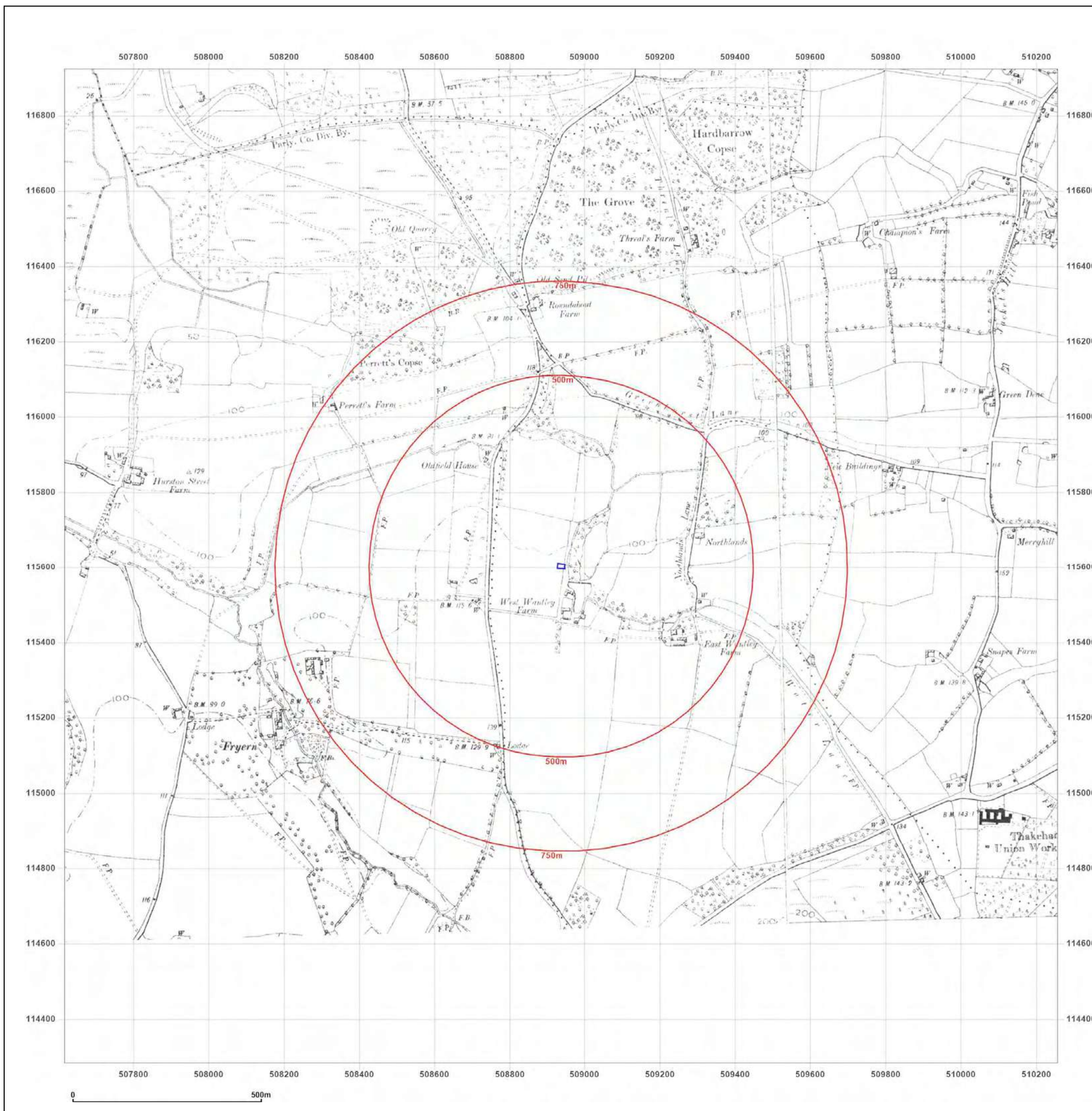


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Site Details:

THE OLD PIGGERY,
NORTHLANDS LANE,
STORRINGTON, WEST SUSSEX,
RH20 3EZ

Client Ref: 822
Report Ref: HMD-47-SGM-O6J-QDW-VQC
Grid Ref: 508936, 115603

Map Name: County Series

Map date: 1909-1914

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1875
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1875
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1875
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

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

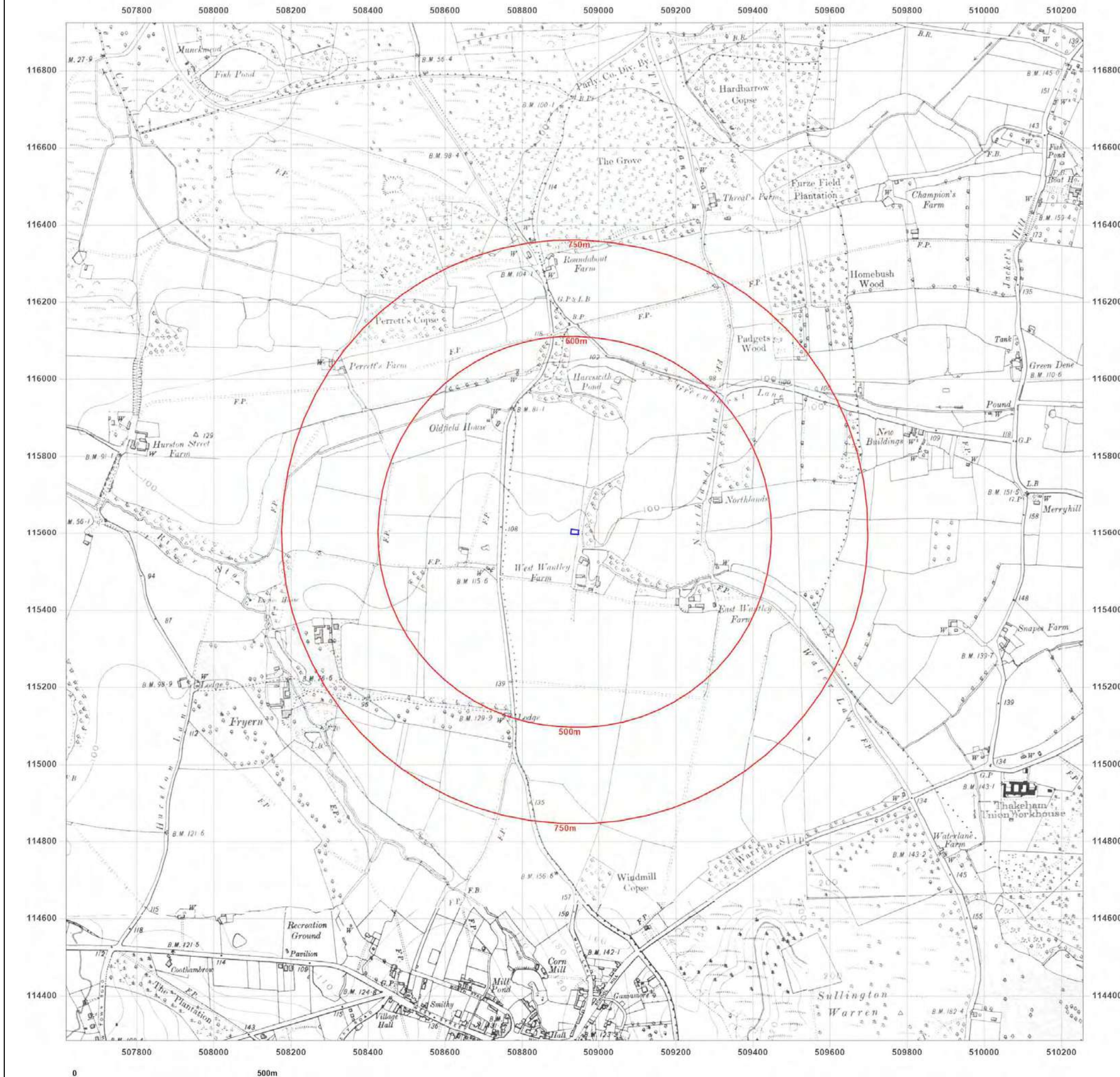


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STORRINGTON, WEST SUSSEX,
RH20 3EZ

Client Ref: 822
Report Ref: HMD-47-SGM-O6J-QDW-VQC
Grid Ref: 508936, 115603

Map Name: County Series

Map date: 1909-1914

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1875
Revised 1909
Edition N/A
Copyright N/A
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Surveyed 1875
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1875
Revised 1913
Edition 1913
Copyright N/A
Levelled N/A

Surveyed 1875
Revised 1914
Edition 1914
Copyright N/A
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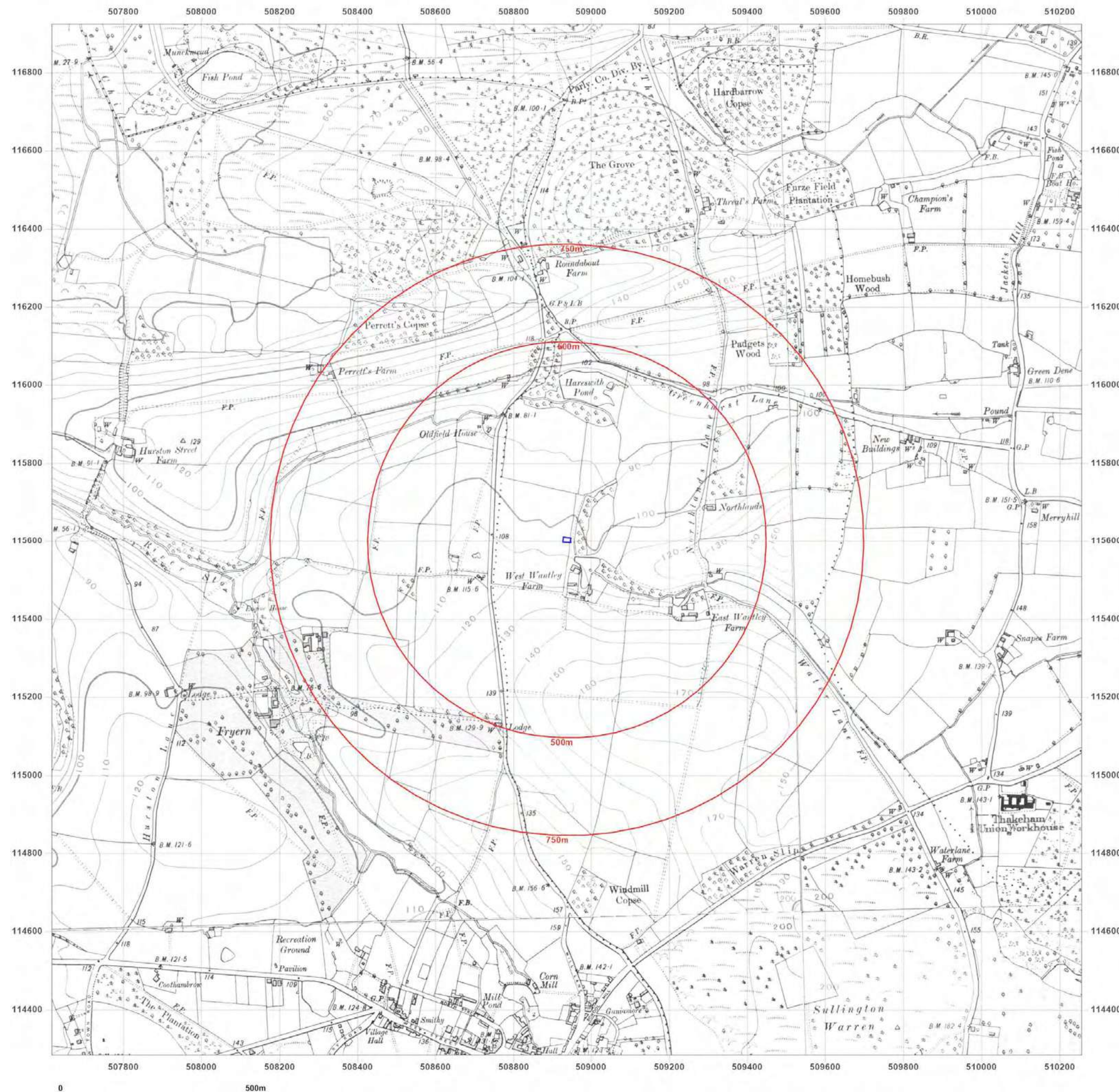


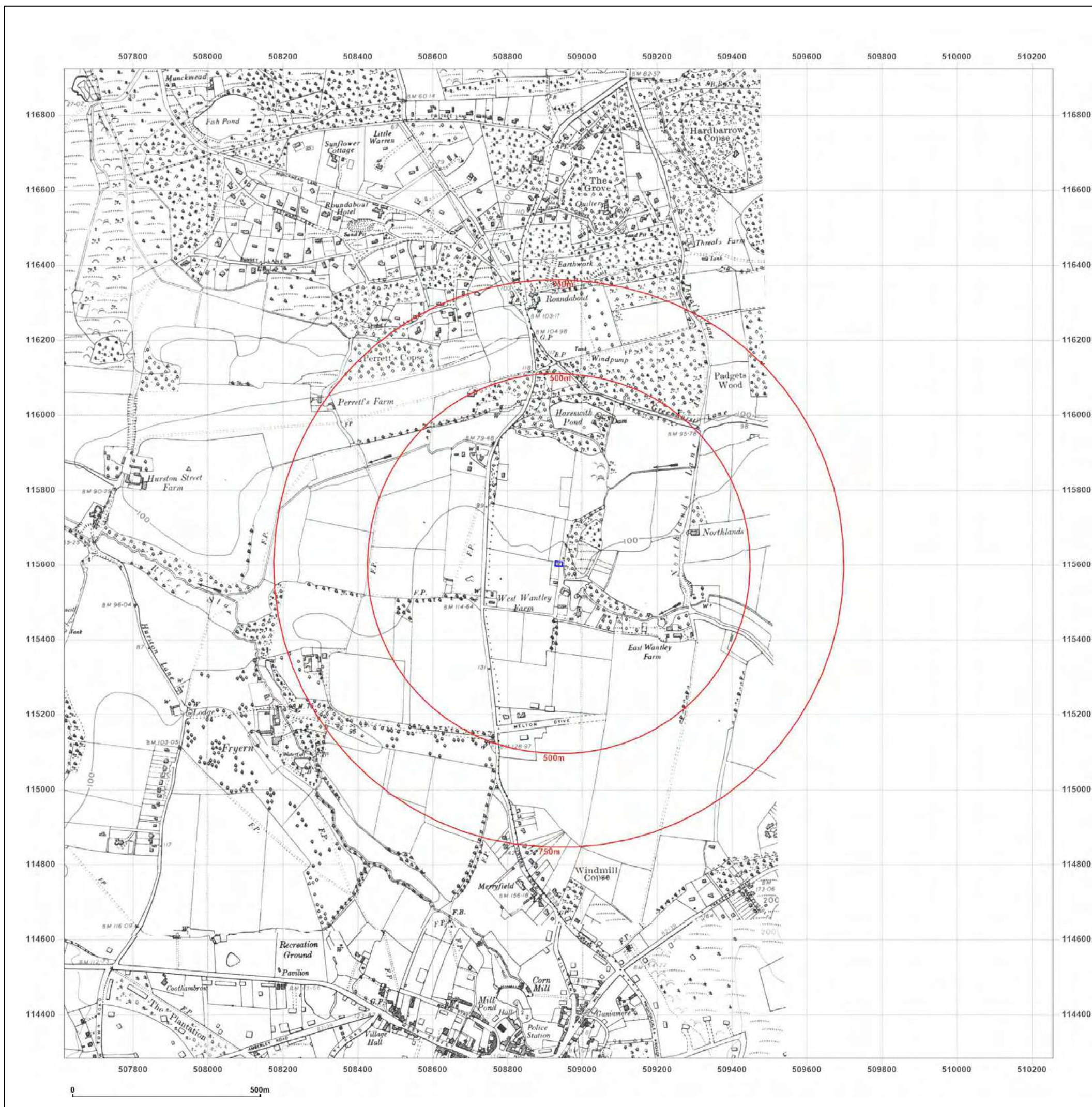
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RH20 3EZ

Client Ref: 822
Report Ref: HMD-47-SGM-O6J-QDW-VQC
Grid Ref: 508936, 115603

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



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Edition N/A
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Surveyed 1875
Revised 1938
Edition N/A
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STORRINGTON, WEST SUSSEX,
RH20 3EZ

Client Ref: 822
Report Ref: HMD-47-SGM-O6J-QDW-VQC
Grid Ref: 508936, 115603

Map Name: National Grid

Map date: 1976-1980

Scale: 1:10,000

Printed at: 1:10,000



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

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

Surveyed 1977
Revised 1980
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1971
Revised 1980
Edition N/A
Copyright N/A
Levelled N/A

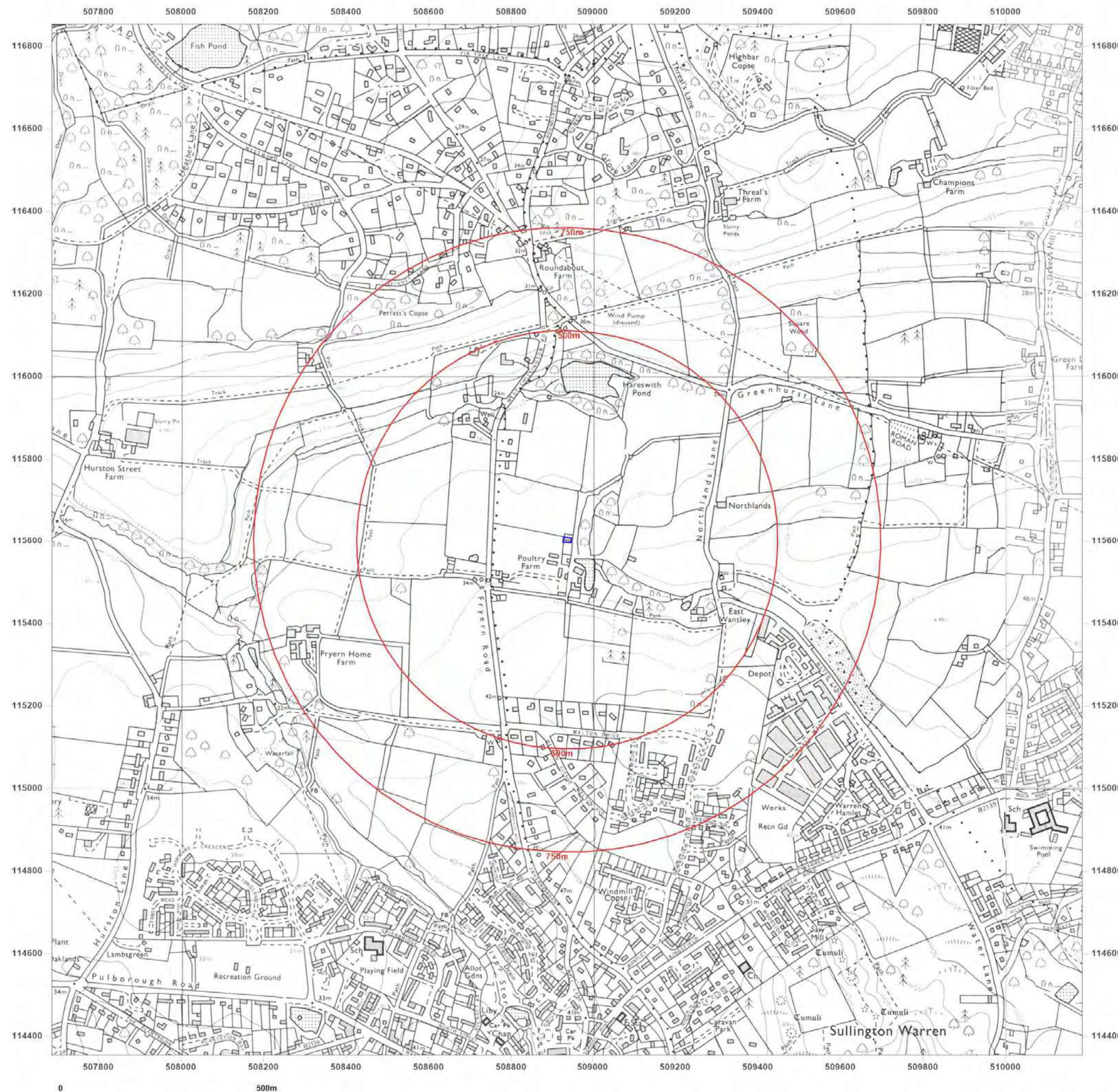


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RH20 3EZ

Client Ref: 822
Report Ref: HMD-47-SGM-O6J-QDW-VQC
Grid Ref: 508936, 115603

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

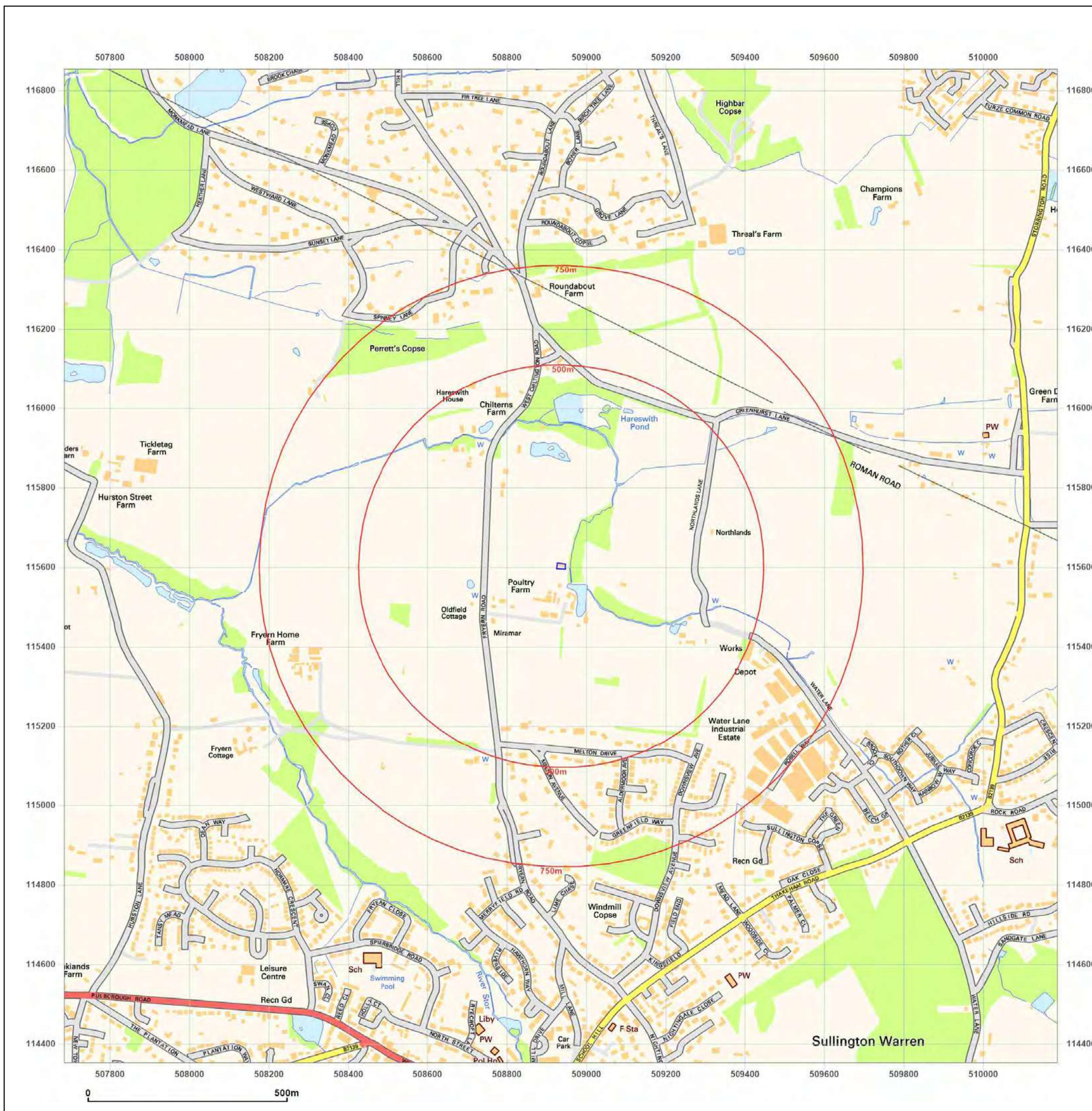


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STORRINGTON, WEST SUSSEX,
RH20 3EZ

Client Ref: 822
Report Ref: HMD-47-SGM-O6J-QDW-VQC
Grid Ref: 508936, 115603

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



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RH20 3EZ

Client Ref: 822
Report Ref: HMD-47-SGM-O6J-QDW-VQC
Grid Ref: 508936, 115603

Map Name: National Grid

Map date: 2025

Scale: 1:10,000

Printed at: 1:10,000



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RH20 3EZ

Client Ref: 822
Report Ref: HMD-47-SGM-O6J-QDW-VQC
Grid Ref: 508936, 115603

Map Name: County Series

Map date: 1876

Scale: 1:2,500

Printed at: 1:2,500



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

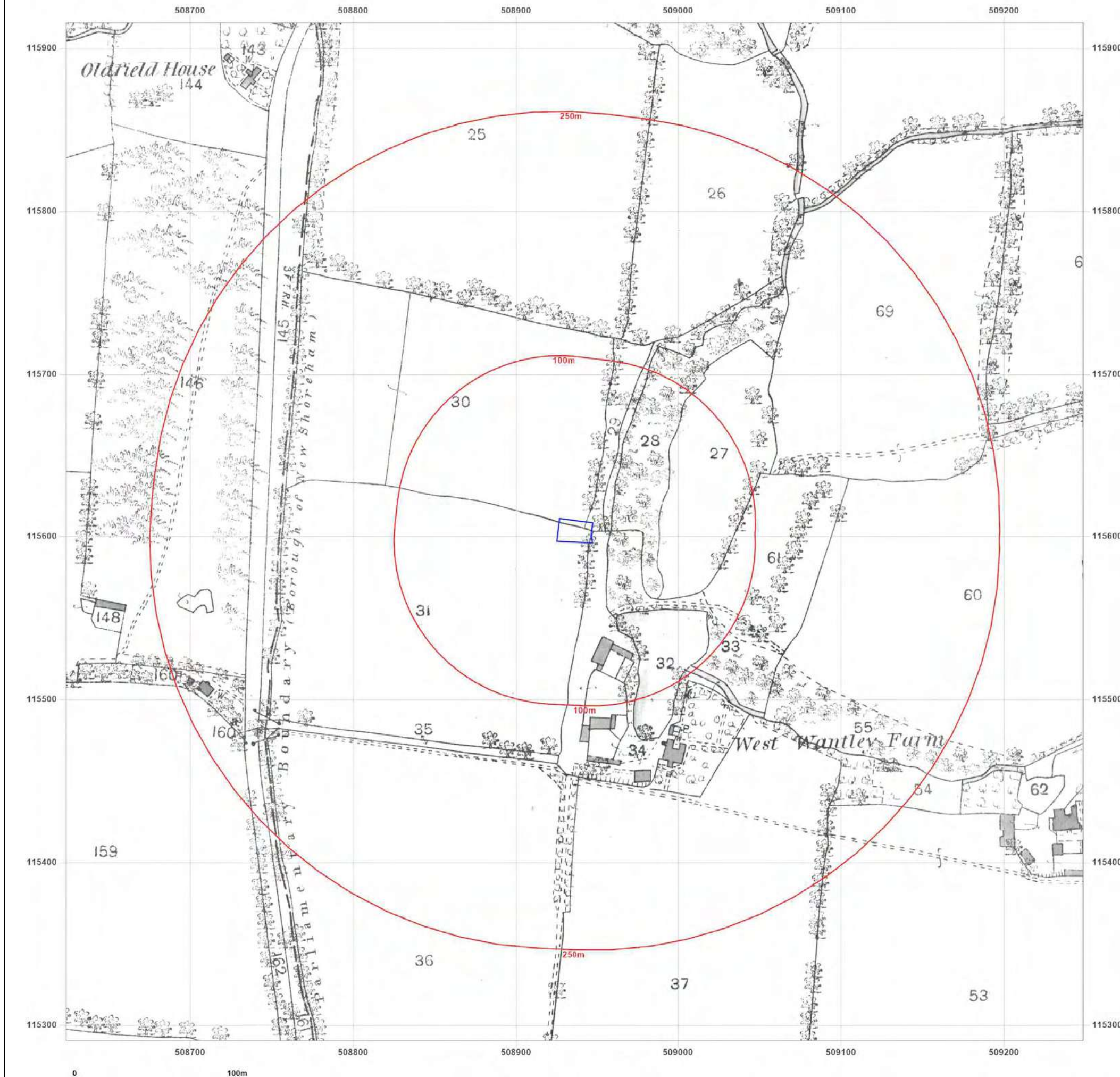


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RH20 3EZ

Client Ref: 822
Report Ref: HMD-47-SGM-O6J-QDW-VQC
Grid Ref: 508936, 115603

Map Name: County Series

Map date: 1897

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Printed at: 1:2,500



Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

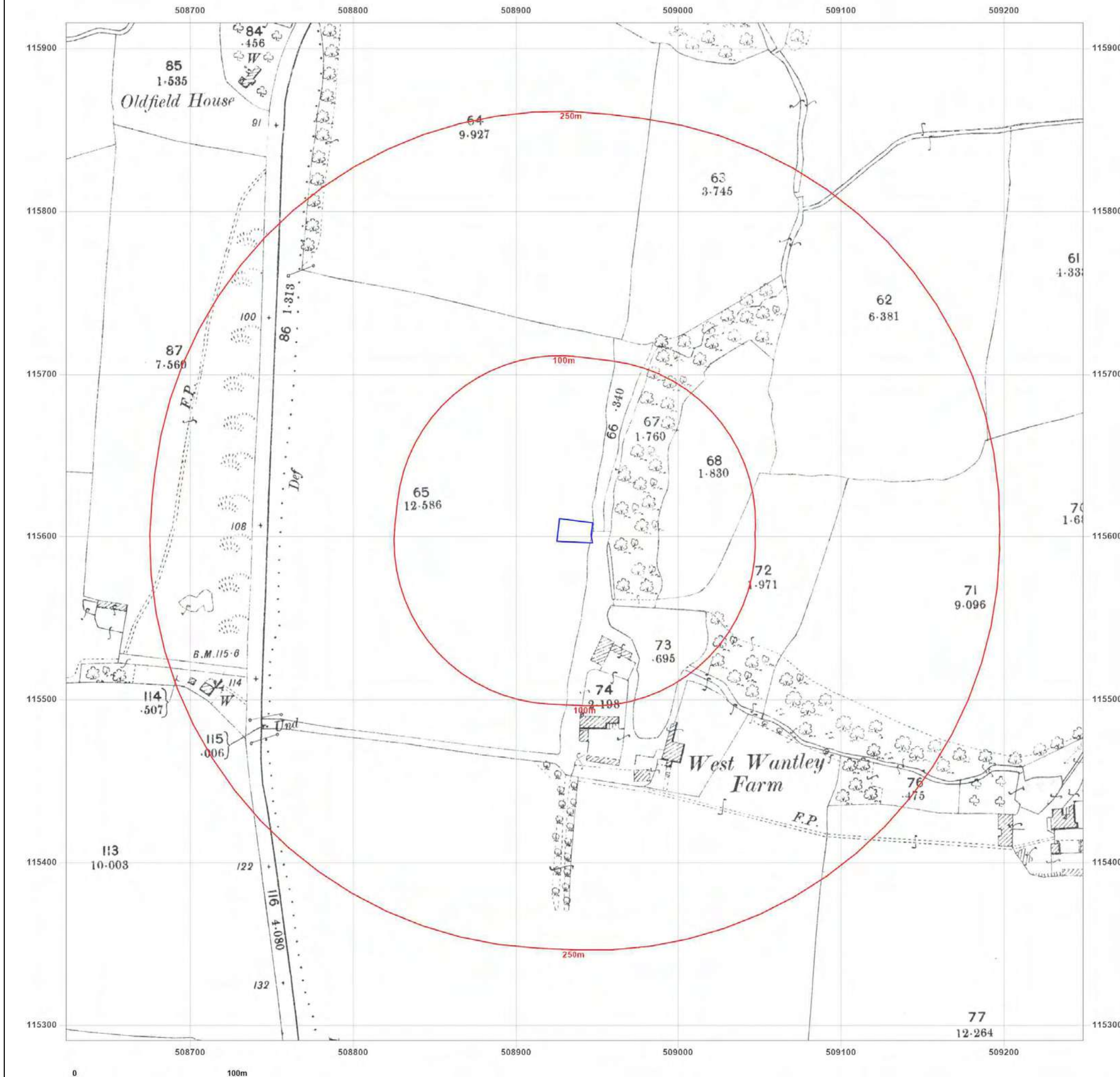


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RH20 3EZ

Client Ref: 822
Report Ref: HMD-47-SGM-O6J-QDW-VQC
Grid Ref: 508936, 115603

Map Name: County Series

Map date: 1911

Scale: 1:2,500

Printed at: 1:2,500



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

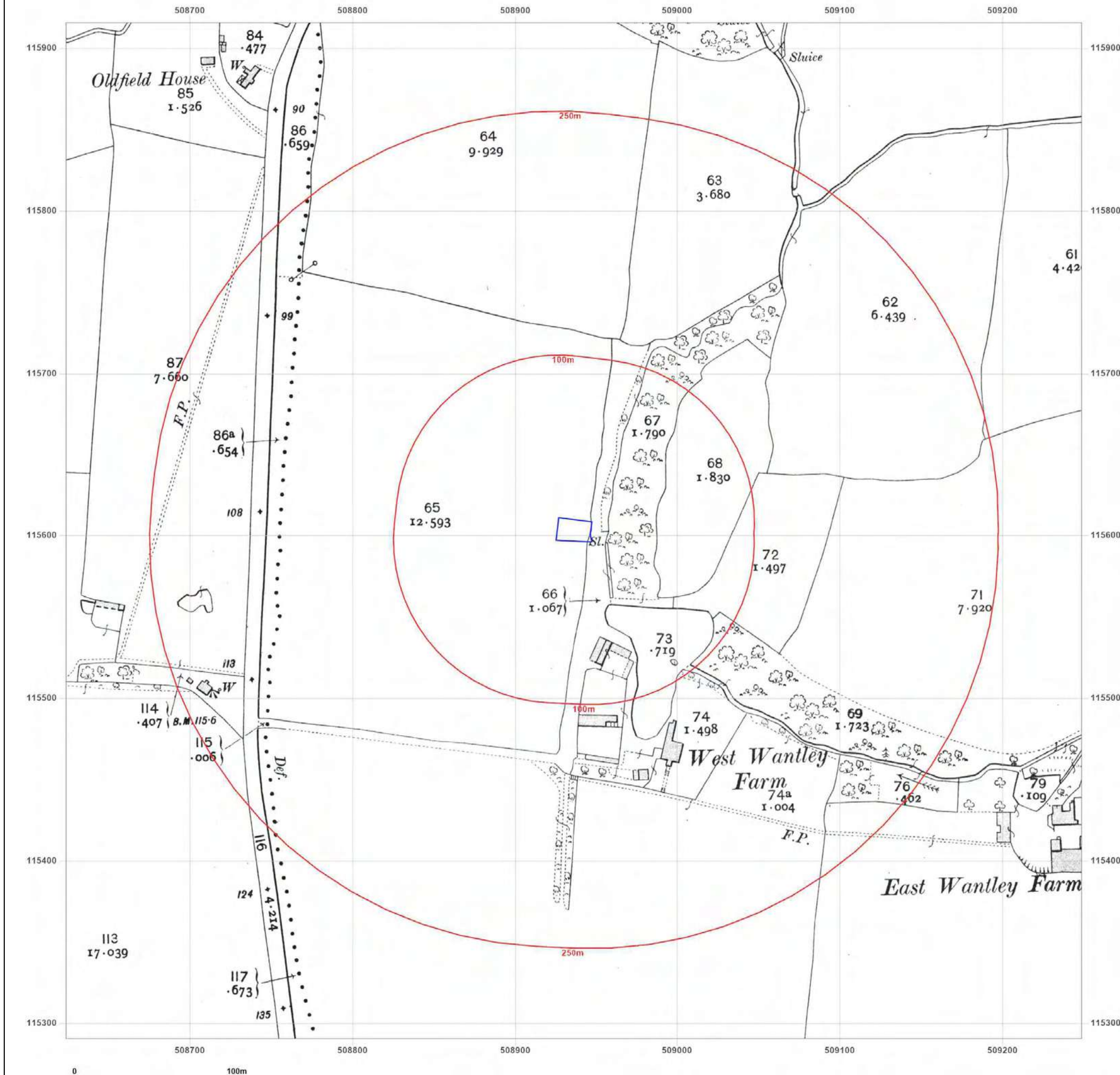


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RH20 3EZ

Client Ref: 822
Report Ref: HMD-47-SGM-O6J-QDW-VQC
Grid Ref: 508936, 115603

Map Name: County Series

Map date: 1937

Scale: 1:2,500

Printed at: 1:2,500



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

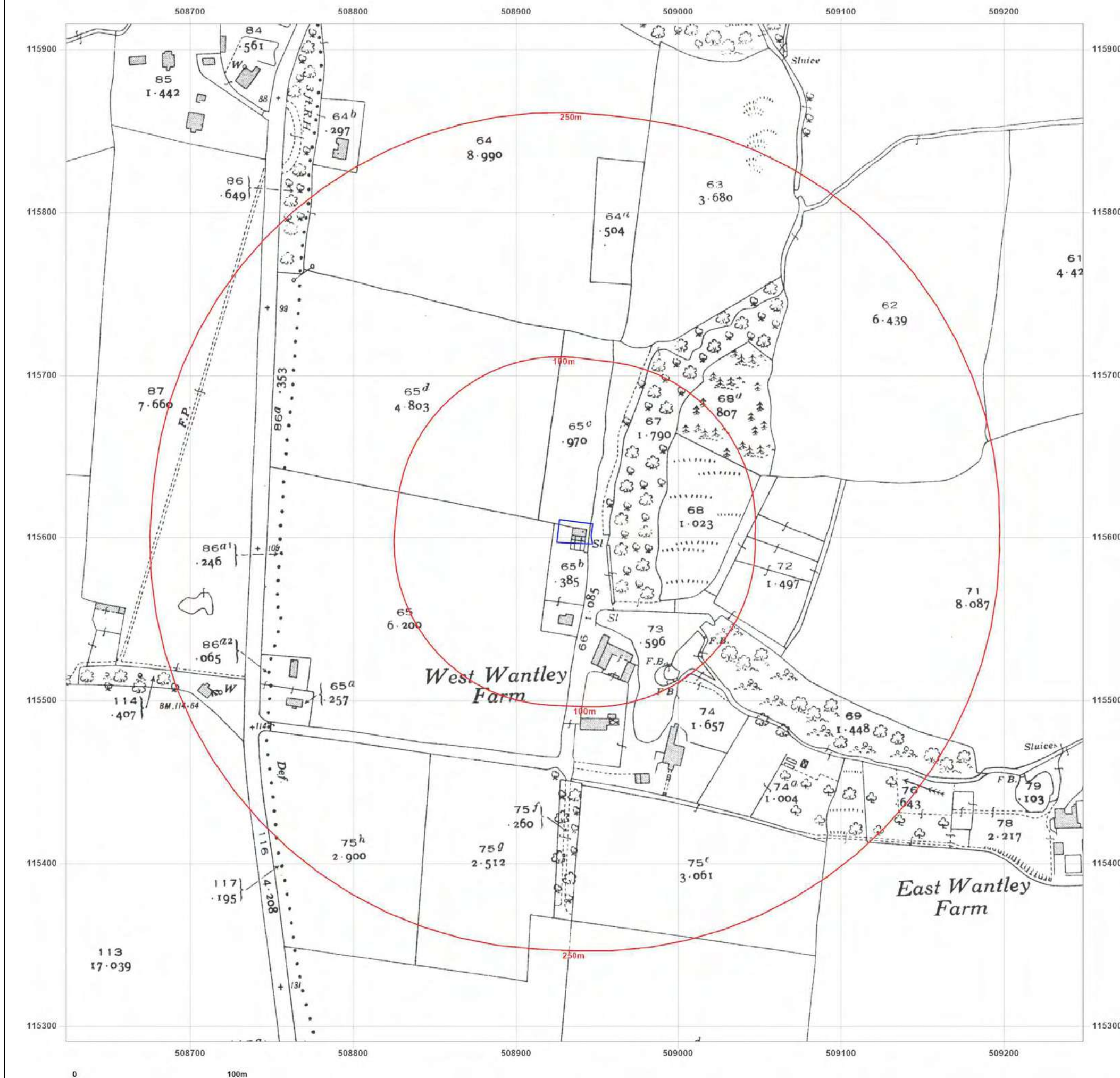


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RH20 3EZ

Client Ref: 822
Report Ref: HMD-47-SGM-O6J-QDW-VQC
Grid Ref: 508936, 115603

Map Name: National Grid

Map date: 1973

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1972
Revised 1972
Edition N/A
Copyright 1973
Levelled 1968

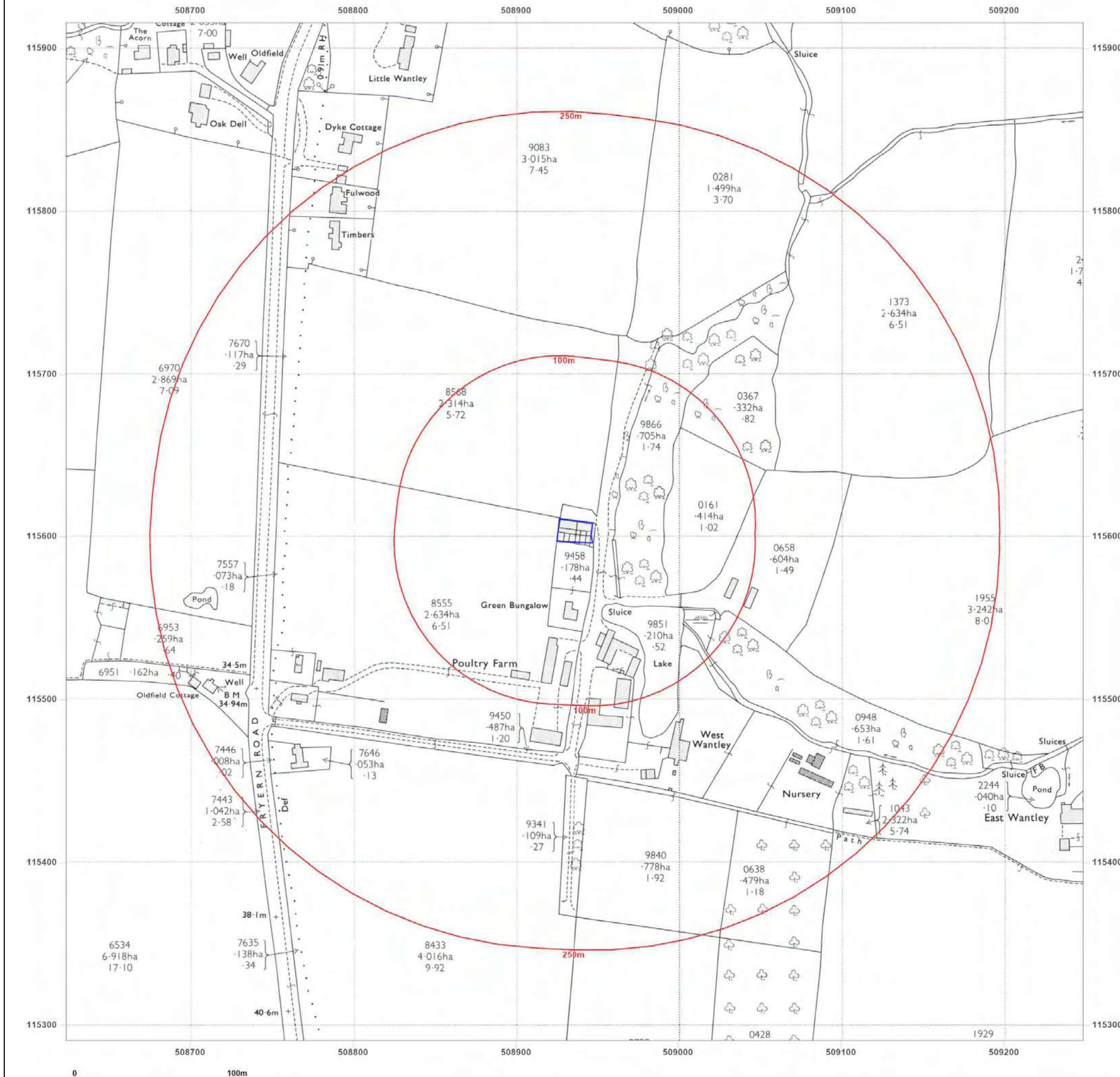


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RH20 3EZ

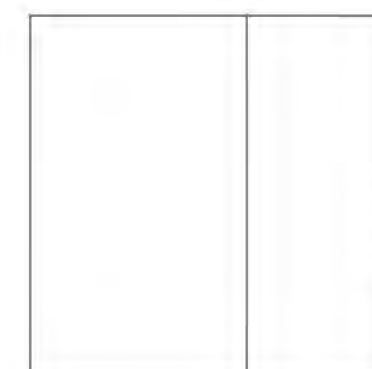
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Grid Ref: 508936, 115603

Map Name: National Grid

Map date: 1979

Scale: 1:2,500

Printed at: 1:2,500



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

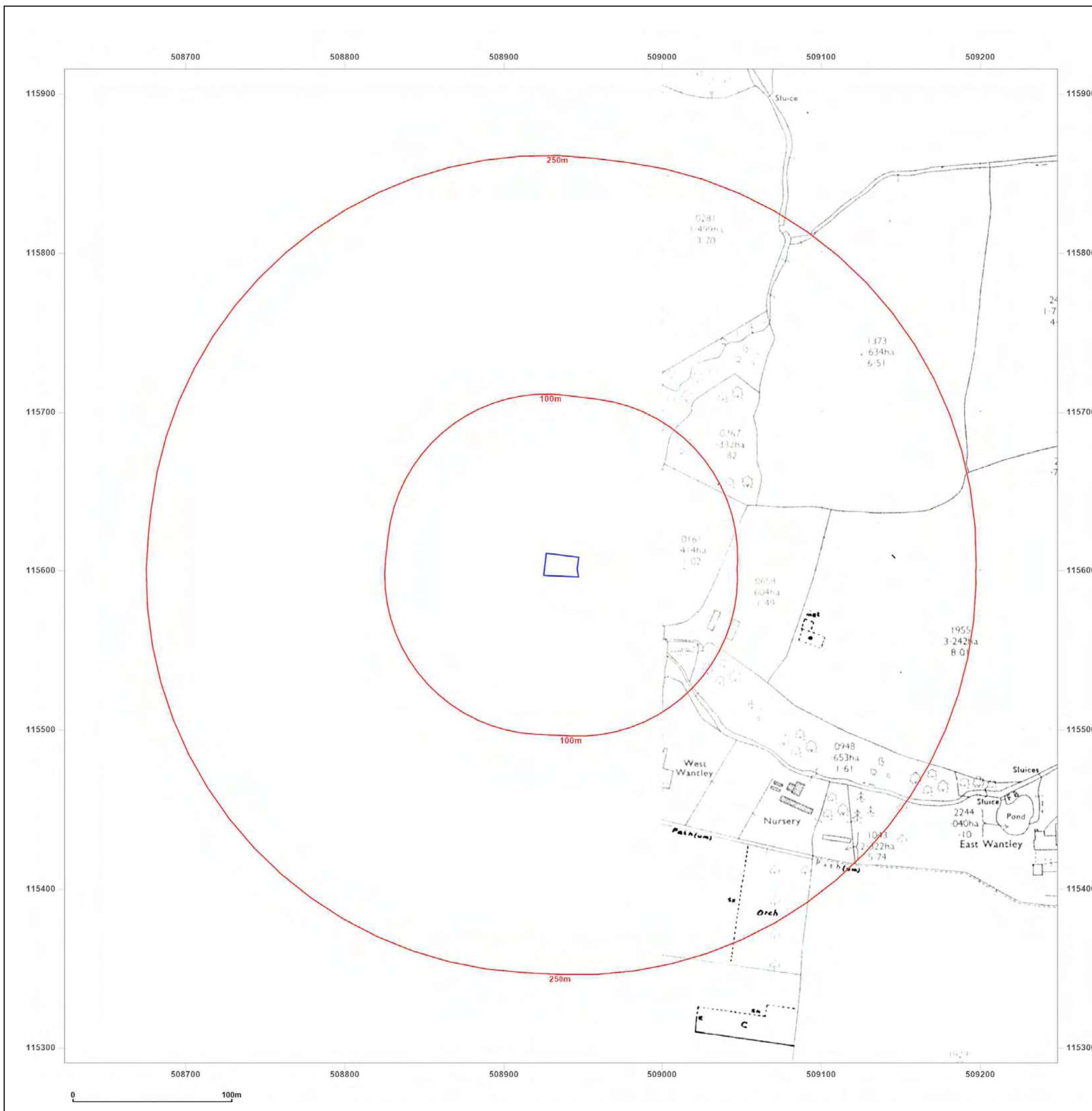


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Site Details:

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STORRINGTON, WEST SUSSEX,
RH20 3EZ

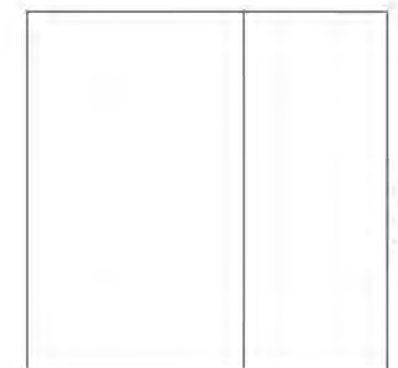
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Report Ref: HMD-47-SGM-O6J-QDW-VQC
Grid Ref: 508936, 115603

Map Name: National Grid

Map date: 1982

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1980
Revised 1980
Edition N/A
Copyright 1982
Levelled 1988

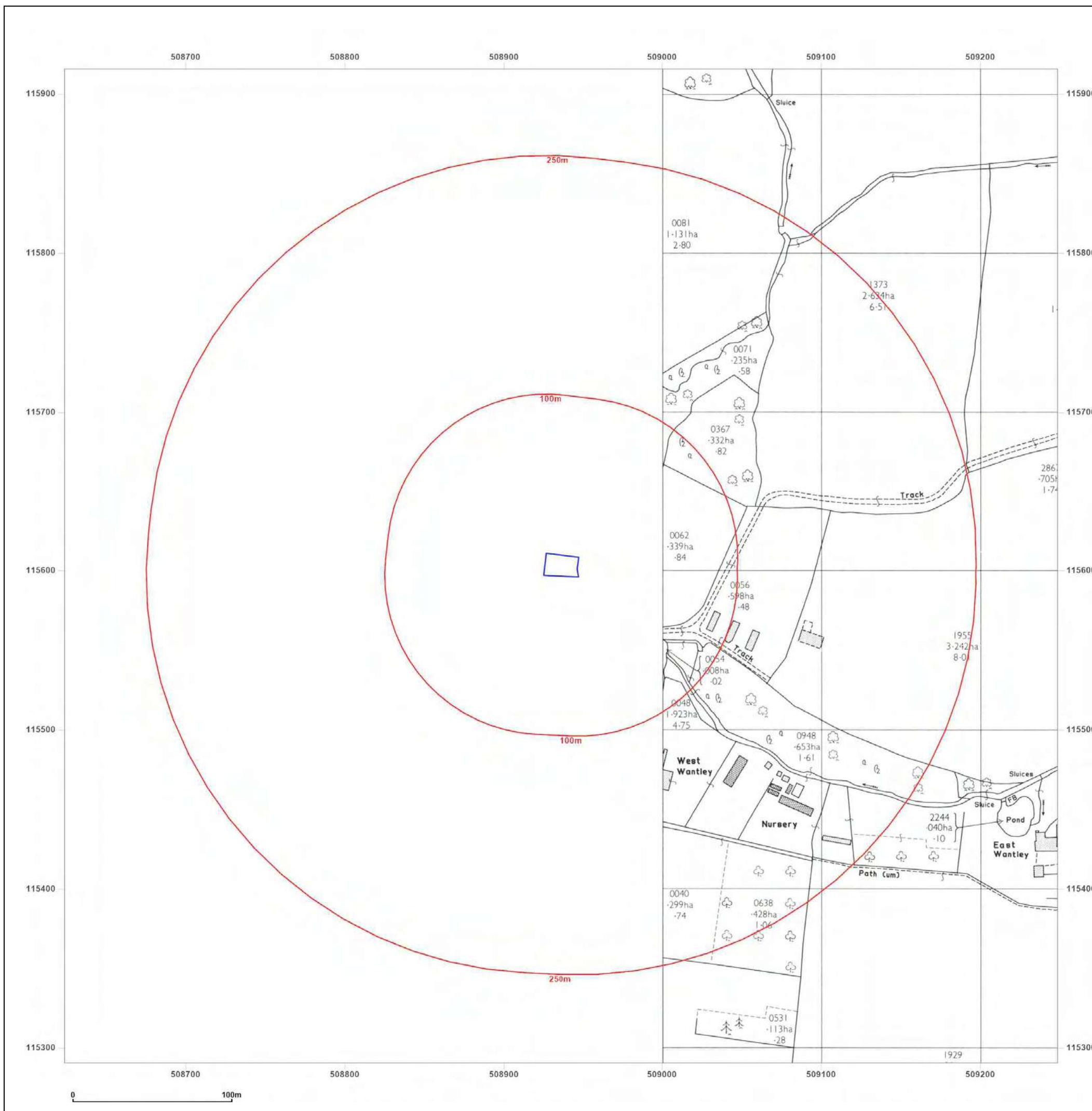


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Site Details:

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STORRINGTON, WEST SUSSEX,
RH20 3EZ

Client Ref: 822
Report Ref: HMD-47-SGM-O6J-QDW-VQC
Grid Ref: 508936, 115603

Map Name: National Grid

Map date: 1993

Scale: 1:2,500

Printed at: 1:2,500



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

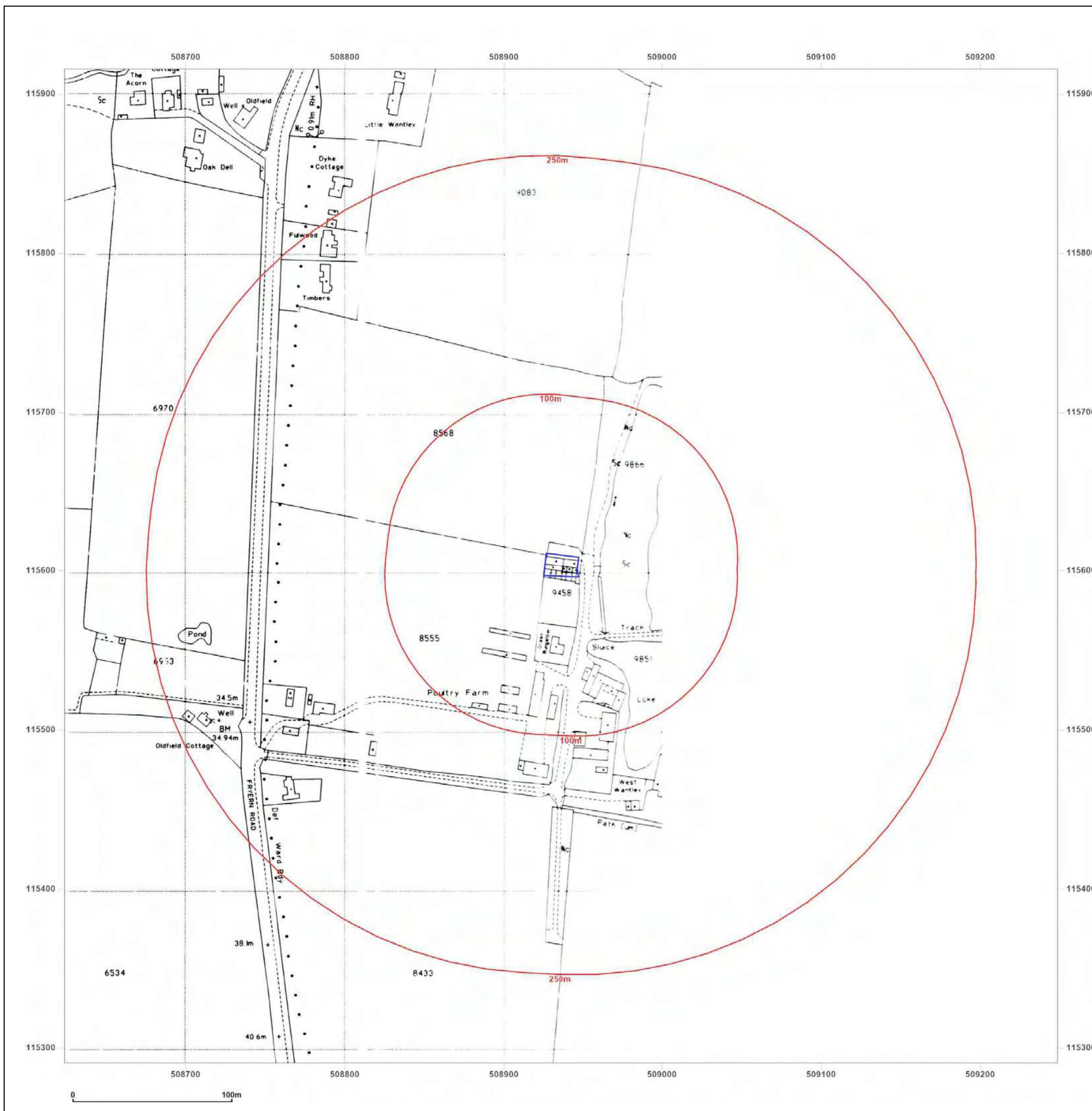


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RH20 3EZ

Client Ref: 822
Report Ref: HMD-47-SGM-O6J-QDW-VQC
Grid Ref: 508936, 115603

Map Name: National Grid

Map date: 1993-1995

Scale: 1:2,500

Printed at: 1:2,500



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

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

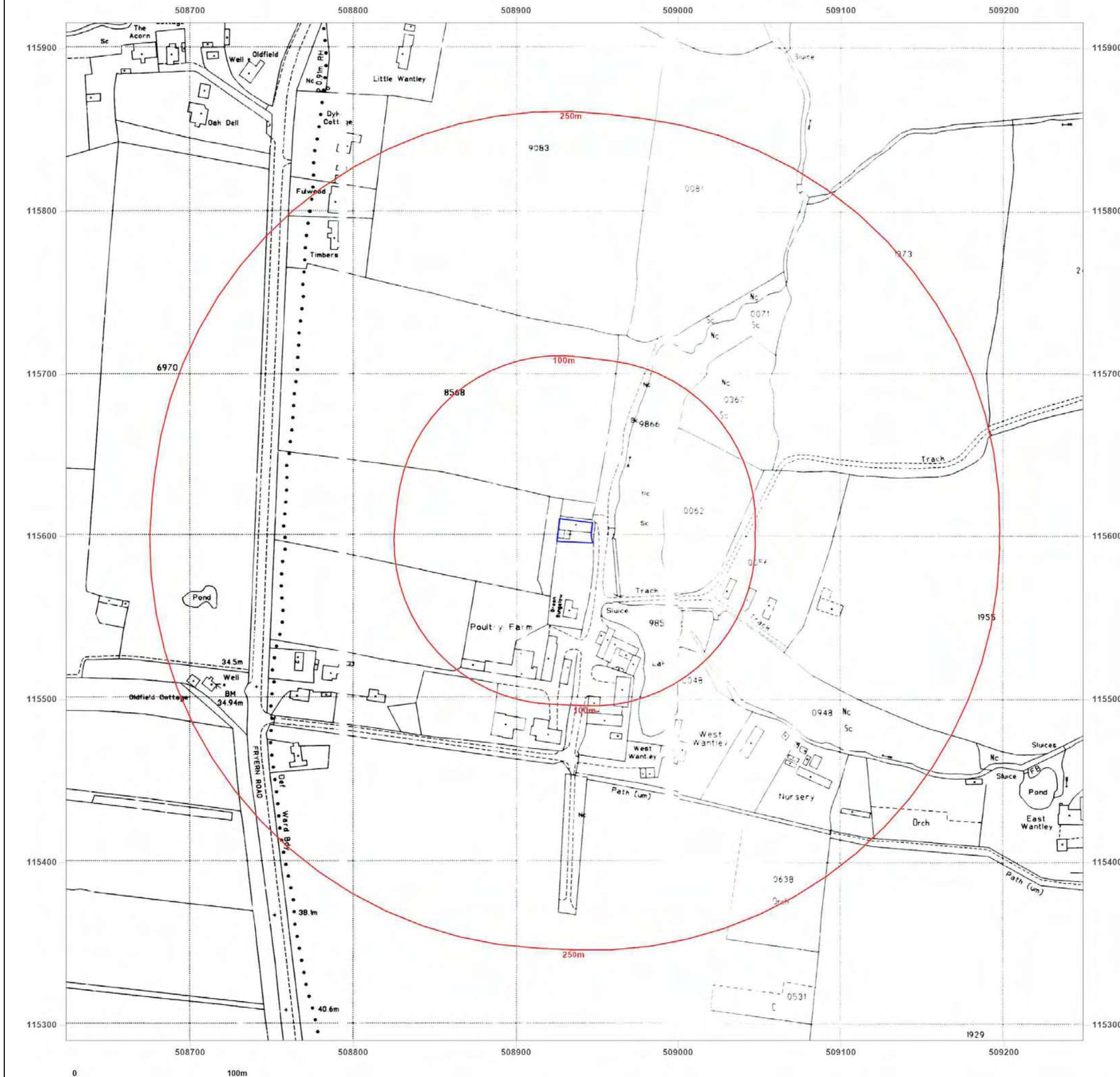


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RH20 3EZ

Client Ref: 822
Report Ref: HMD-47-SGM-O6J-QDW-VQC
Grid Ref: 508936, 115603

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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APPENDIX C

Photographs

Access gate



Eastern exterior



Southern facade



Trough



Trough



Plastic piping



Power switch



Tap



Roof cladding, possible asbestos contaminant



Empty motor oil container



APPENDIX D

GroundSure EnviroInsight Report

THE OLD PIGGERY, NORTHLANDS LANE, STORRINGTON, WEST SUSSEX, RH20 3EZ

Order Details

Date: 08/08/2025
Your ref: 822
Our Ref: HMD-47-E9J-49M-XMC-NDV

Site Details

Location: 508936 115603
Area: 0.03 ha
Authority: [Horsham District Council](#) ↗



Summary of findings

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

[p. 9 >](#)

OS MasterMap site plan

[p.14 >](#) [Insight User Guide](#) ↗

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	0	0	0	1	-
16	1.2	Historical tanks	0	0	0	0	-
16	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	-
17	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
18 >	2.1 >	Historical industrial land uses >	0	0	0	1	-
19	2.2	Historical tanks	0	0	0	0	-
19	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	0	22	0	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
24 >	4.1 >	Recent industrial land uses >	0	0	1	-	-
25	4.2	National Geographic Database (NGD) - Current or recent tanks	0	0	0	-	-
25	4.3	Current or recent petrol stations	0	0	0	0	-
25	4.4	Electricity cables	0	0	0	0	-
25	4.5	Gas pipelines	0	0	0	0	-



25	4.6	Sites determined as Contaminated Land	0	0	0	0	-
25	4.7	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
26	4.8	Regulated explosive sites	0	0	0	0	-
26	4.9	Hazardous substance storage/usage	0	0	0	0	-
26	4.10	Historical licensed industrial activities (IPC)	0	0	0	0	-
26	4.11	Licensed industrial activities (Part A(1))	0	0	0	0	-
26	4.12	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
27	4.13	Radioactive Substance Authorisations	0	0	0	0	-
27 >	4.14 >	<u>Licensed Discharges to controlled waters</u> >	0	0	0	2	-
27	4.15	Pollutant release to surface waters (Red List)	0	0	0	0	-
28	4.16	Pollutant release to public sewer	0	0	0	0	-
28	4.17	List 1 Dangerous Substances	0	0	0	0	-
28	4.18	List 2 Dangerous Substances	0	0	0	0	-
28 >	4.19 >	<u>Pollution Incidents (EA/NRW)</u> >	0	2	0	2	-
29	4.20	Pollution inventory substances	0	0	0	0	-
29	4.21	Pollution inventory waste transfers	0	0	0	0	-
29	4.22	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<u>Hydrogeology</u> >	On site	0-50m	50-250m	250-500m	500-2000m
30 >	5.1 >	<u>Superficial aquifer</u> >	Identified (within 500m)				
32 >	5.2 >	<u>Bedrock aquifer</u> >	Identified (within 500m)				
34 >	5.3 >	<u>Groundwater vulnerability</u> >	Identified (within 50m)				
35	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
35	5.5	Groundwater vulnerability- local information	None (within 0m)				
36 >	5.6 >	<u>Groundwater abstractions</u> >	0	0	0	0	23
42	5.7	Surface water abstractions	0	0	0	0	0
42 >	5.8 >	<u>Potable abstractions</u> >	0	0	0	0	8
44 >	5.9 >	<u>Source Protection Zones</u> >	0	0	0	1	-
45	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<u>Hydrology</u> >	On site	0-50m	50-250m	250-500m	500-2000m



46 >	6.1 >	Water Network (OS MasterMap) >	0	5	8	-	-
48 >	6.2 >	Surface water features >	0	2	2	-	-
48 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
48 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
49	6.5	WFD Groundwater bodies	0	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
50 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
51	7.2	Historical Flood Events	0	0	0	-	-
51	7.3	Flood Defences	0	0	0	-	-
51	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
51	7.5	Flood Storage Areas	0	0	0	-	-
52 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
53 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
54 >	8.1 >	Surface water flooding >	1 in 100 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding >					
56 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
57 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	4
58	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
58	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
58	10.4	Special Protection Areas (SPA)	0	0	0	0	0
59	10.5	National Nature Reserves (NNR)	0	0	0	0	0
59	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
59 >	10.7 >	Designated Ancient Woodland >	0	1	1	2	4
60	10.8	Biosphere Reserves	0	0	0	0	0
60	10.9	Forest Parks	0	0	0	0	0
60	10.10	Marine Conservation Zones	0	0	0	0	0
60	10.11	Green Belt	0	0	0	0	0



60	10.12	Proposed Ramsar sites	0	0	0	0	0
61	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
61	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
61	10.15	Nitrate Sensitive Areas	0	0	0	0	0
61	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
62 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
63 >	10.18 >	SSSI Units >	0	0	0	0	5
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
65	11.1	World Heritage Sites	0	0	0	-	-
66	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
66	11.3	National Parks	0	0	0	-	-
66 >	11.4 >	Listed Buildings >	0	0	1	-	-
67	11.5	Conservation Areas	0	0	0	-	-
67	11.6	Scheduled Ancient Monuments	0	0	0	-	-
67	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
68 >	12.1 >	Agricultural Land Classification >	Grade 3 (within 250m)				
69	12.2	Open Access Land	0	0	0	-	-
69	12.3	Tree Felling Licences	0	0	0	-	-
69	12.4	Environmental Stewardship Schemes	0	0	0	-	-
70	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
71 >	13.1 >	Priority Habitat Inventory >	0	4	4	-	-
72	13.2	Habitat Networks	0	0	0	-	-
72	13.3	Open Mosaic Habitat	0	0	0	-	-
72	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
73 >	14.1 >	10k Availability >	Identified (within 500m)				
74 >	14.2 >	Artificial and made ground (10k) >	0	0	0	2	-

75 >	14.3 >	Superficial geology (10k) >	0	2	0	2	-
76	14.4	Landslip (10k)	0	0	0	0	-
77 >	14.5 >	Bedrock geology (10k) >	1	0	1	3	-
78	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
79 >	15.1 >	50k Availability >	Identified (within 500m)				
80	15.2	Artificial and made ground (50k)	0	0	0	0	-
80	15.3	Artificial ground permeability (50k)	0	0	-	-	-
81 >	15.4 >	Superficial geology (50k) >	1	1	0	3	-
82 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
82	15.6	Landslip (50k)	0	0	0	0	-
82	15.7	Landslip permeability (50k)	None (within 50m)				
83 >	15.8 >	Bedrock geology (50k) >	1	0	1	4	-
84 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
84	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
85	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence >					
86 >	17.1 >	Shrink swell clays >	Low (within 50m)				
87 >	17.2 >	Running sands >	Low (within 50m)				
89 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
91 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
92 >	17.5 >	Landslides >	Very low (within 50m)				
93 >	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
95	18.1	BritPits	0	0	0	0	-
96 >	18.2 >	Surface ground workings >	0	6	0	-	-
96	18.3	Underground workings	0	0	0	0	0
96	18.4	Underground mining extents	0	0	0	0	-



97	18.5	Historical Mineral Planning Areas	0	0	0	0	-
97 >	18.6 >	Non-coal mining >	1	0	1	0	1
97	18.7	JPB mining areas	None (within 0m)				
98	18.8	The Coal Authority non-coal mining	0	0	0	0	-
98	18.9	Researched mining	0	0	0	0	-
98	18.10	Mining record office plans	0	0	0	0	-
98	18.11	BGS mine plans	0	0	0	0	-
99	18.12	Coal mining	None (within 0m)				
99	18.13	Brine areas	None (within 0m)				
99	18.14	Gypsum areas	None (within 0m)				
99	18.15	Tin mining	None (within 0m)				
99	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
100	19.1	Natural cavities	0	0	0	0	-
100	19.2	Mining cavities	0	0	0	0	0
100	19.3	Reported recent incidents	0	0	0	0	-
100	19.4	Historical incidents	0	0	0	0	-
Page	Section	Radon >					
102 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
104 >	21.1 >	BGS Estimated Background Soil Chemistry >	2	1	-	-	-
104	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
104	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
105	22.1	Underground railways (London)	0	0	0	-	-
105	22.2	Underground railways (Non-London)	0	0	0	-	-
105	22.3	Railway tunnels	0	0	0	-	-
105	22.4	Historical railway and tunnel features	0	0	0	-	-
105	22.5	Royal Mail tunnels	0	0	0	-	-



106	22.6	Historical railways	0	0	0	-	-
106	22.7	Railways	0	0	0	-	-
106	22.8	Crossrail 2	0	0	0	0	-
106	22.9	HS2	0	0	0	0	-

Recent aerial photograph



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Capture Date: 22/04/2021

Site Area: 0.03ha



Recent site history - 2018 aerial photograph



Capture Date: 26/06/2018

Site Area: 0.03ha



Recent site history - 2012 aerial photograph



Capture Date: 13/09/2012

Site Area: 0.03ha



Recent site history - 2009 aerial photograph



Capture Date: 22/08/2009

Site Area: 0.03ha



Recent site history - 1999 aerial photograph



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Capture Date: 29/08/1999

Site Area: 0.03ha



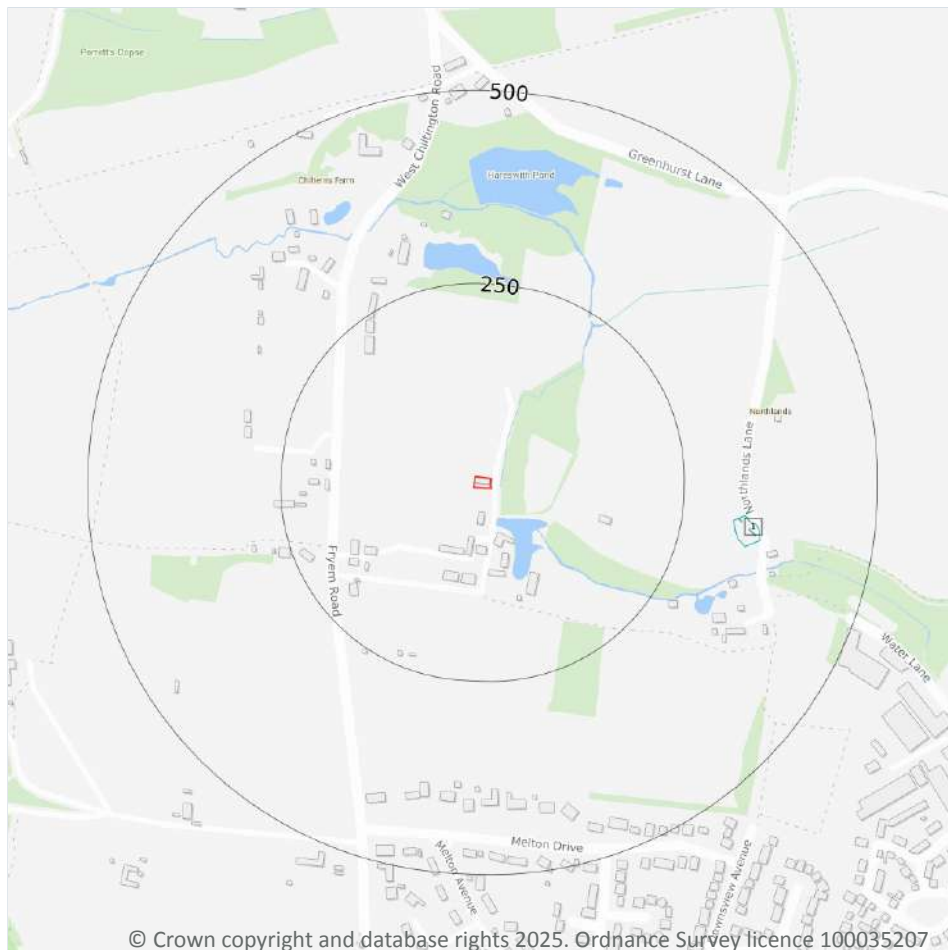
OS MasterMap site plan



Site Area: 0.03ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

1

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

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
1	316m E	Cuttings	1957	2157234

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

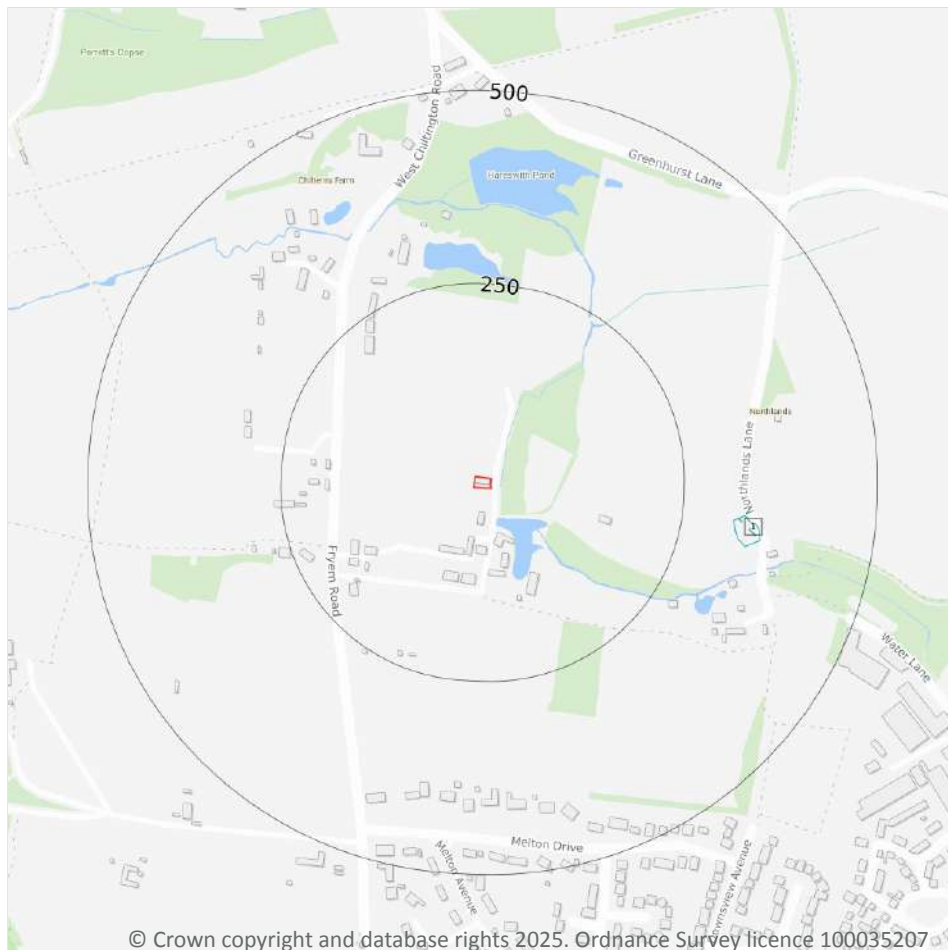
0

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

1

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 18](#) >

ID	Location	Land Use	Date	Group ID
1	316m E	Cuttings	1957	2157234

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

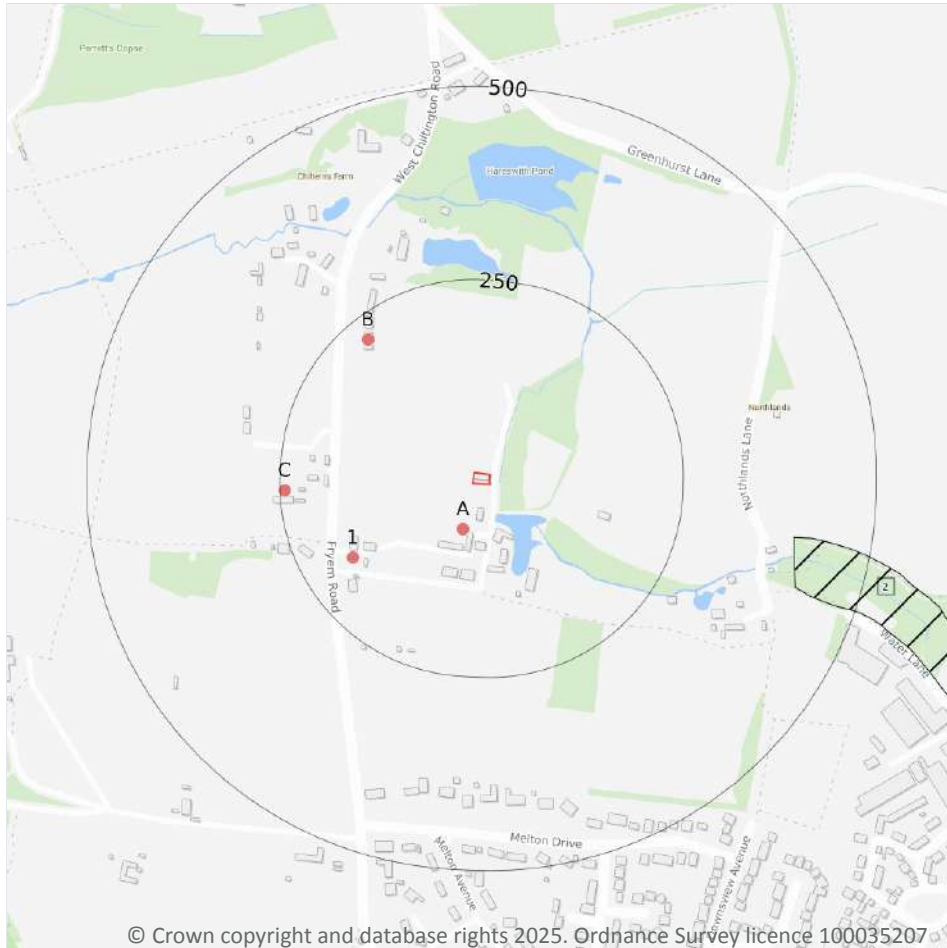
Records within 500m

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		
2	399m E	Site Address: Water Lane, Storrington, Sullington, Sussex Licence Holder Address: -	Waste Licence: Yes Site Reference: WD27/214 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 01/01/1976 Licence Surrender: -	Operator: - Licence Holder: - First Recorded 31/12/1960 Last Recorded: 31/12/1970

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	22
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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	61m S	West Wantly Farm Fryern Road Rh20 4bj	EPR/AE5288TK /A001	Disposing of waste exemption	Agricultural waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	61m S	West Wantly Farm Fryern Road Rh20 4bj	EPR/AE5288TK /A001	Disposing of waste exemption	Agricultural waste only	Disposal by incineration
A	61m S	West Wantly Farm Fryern Road Rh20 4bj	EPR/AE5288TK /A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
A	61m S	West Wantly Farm Fryern Road Rh20 4bj	EPR/AE5288TK /A001	Using waste exemption	Agricultural waste only	Spreading waste on agricultural land to confer benefit
A	61m S	West Wantly Farm Fryern Road Rh20 4bj	EPR/AE5288TK /A001	Treating waste exemption	Both agricultural and non-agricultural waste	Screening and blending of waste
A	61m S	West Wantly Farm Fryern Road Rh20 4bj	EPR/AE5288TK /A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
A	61m S	West Wantly Farm Fryern Road Rh20 4bj	EPR/AE5288TK /A001	Storing waste exemption	Agricultural waste only	Storage of waste in secure containers
A	61m S	West Wantly Farm Fryern Road Rh20 4bj	EPR/AE5288TK /A001	Treating waste exemption	Agricultural waste only	Aerobic composting and associated prior treatment
A	61m S	West Wantly Farm Fryern Road Rh20 4bj	EPR/AE5288TK /A001	Using waste exemption	Agricultural waste only	Burning of waste as a fuel in a small appliance
A	61m S	West Wantly Farm Fryern Road Rh20 4bj	EPR/AE5288TK /A001	Using waste exemption	Agricultural waste only	Use of waste for a specified purpose
A	61m S	West Wantly Farm Fryern Road Rh20 4bj	EPR/AE5288TK /A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising

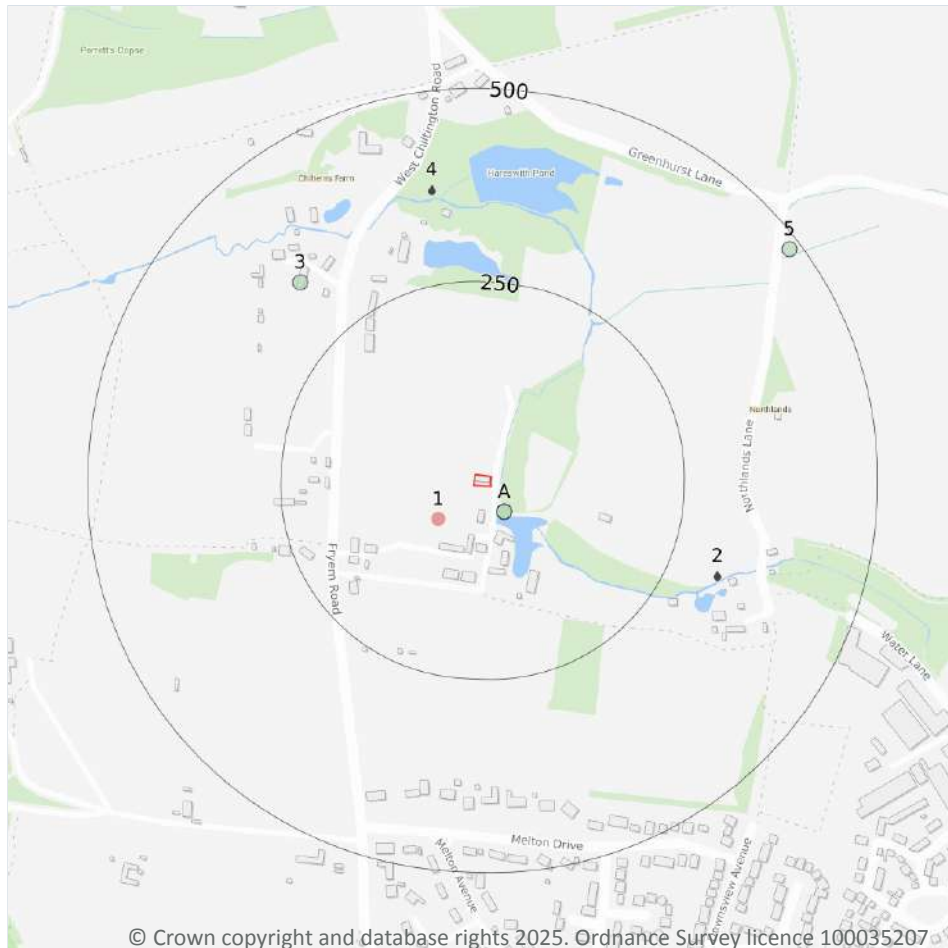


ID	Location	Site	Reference	Category	Sub-Category	Description
A	61m S	West Wantly Farm Fryern Road Rh20 4bj	EPR/AE5288TK /A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
1	183m SW	-	WEX266678	Using waste exemption	Not on a farm	Use of waste in construction
B	220m NW	West Wantley Farm, Fryern Road, Storrington, Rh20 4bj	WEX052394	Disposing of waste exemption	On a farm	Disposal by incineration
B	220m NW	West Wantley Farm, Fryern Road, Storrington, Rh20 4bj	WEX052394	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
B	220m NW	West Wantley Farm, Fryern Road, Storrington, Rh20 4bj	WEX052394	Disposing of waste exemption	On a farm	Burning waste in the open
B	220m NW	West Wantley Farm, Fryern Road, Storrington, Rh20 4bj	WEX052394	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
B	220m NW	Oldfield Stables, Fryern Road, Storrington, Pulborough, Rh20 4bj	WEX418229	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	220m NW	Oldfield Stables, Fryern Road, Storrington, Pulborough, Rh20 4bj	WEX418229	Using waste exemption	Not on a farm	Use of waste in construction
C	244m W	Oldfield Stables, Fryern Road, Storrington, Pulborough, Rh20 4bj	WEX288809	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	244m W	Oldfield Stables, Fryern Road, Storrington, Pulborough, Rh20 4bj	WEX288809	Using waste exemption	Not on a farm	Use of waste in construction
C	244m W	Oldfield Stables, Fryern Road, Storrington, Pulborough, Rh20 4bj	WEX413191	Using waste exemption	Not on a farm	Use of waste in construction

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



4 Current industrial land use



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- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- ◆ Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

1

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 24](#) >

ID	Location	Company	Address	Activity	Category
1	63m SW	Poultry Farm	West Sussex, RH20	Poultry Farming, Equipment and Supplies	Farming

This data is sourced from Ordnance Survey.



4.2 National Geographic Database (NGD) - Current or recent tanks

Records within 250m**0**

Current or recent tanks identified from the Ordnance Survey NGD.

This data is sourced from Ordnance Survey.

4.3 Current or recent petrol stations

Records within 500m**0**

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.4 Electricity cables

Records within 500m**0**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.5 Gas pipelines

Records within 500m**0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.6 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.

4.7 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.

4.8 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.

4.9 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.

4.10 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.

4.11 Licensed industrial activities (Part A(1))

Records within 500m

0

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

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

4.12 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.

4.13 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.

4.14 Licensed Discharges to controlled waters

Records within 500m**2**

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 24](#) >

ID	Location	Address	Details	
2	315m E	EAST WANTLEY FARM, EAST WANTLEY FARM, NORTHLANDS LANE, STORRINGTON, WEST SUSSEX, RH20 4EZ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: P05519 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 13/09/1994 Effective Date: 13/09/1994 Revocation Date: -
4	373m N	LITTLE WANTLEY, LITTLE WANTLEY, FRYERN ROAD, SULLINGTON, WEST SUSSEX	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: S02831 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 15/01/1985 Effective Date: 15/01/1985 Revocation Date: 31/03/1997

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

4.15 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.



4.16 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.

4.17 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.

4.18 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.

4.19 Pollution Incidents (EA/NRW)

Records within 500m

4

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

Features are displayed on the Current industrial land use map on [page 24 >](#)

ID	Location	Details	
A	37m SE	Incident Date: 30/09/2001 Incident Identification: 33811 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
A	37m SE	Incident Date: 30/09/2001 Incident Identification: 33811 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Location	Details	
3	336m NW	Incident Date: 26/06/2003 Incident Identification: 168950 Pollutant: Sewage Materials Pollutant Description: Grey Water	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
5	485m NE	Incident Date: 03/11/2003 Incident Identification: 199487 Pollutant: Specific Waste Materials Pollutant Description: Metal Wastes	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)

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

4.20 Pollution inventory substances

Records within 500m	0
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The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

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

4.21 Pollution inventory waste transfers

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

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

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

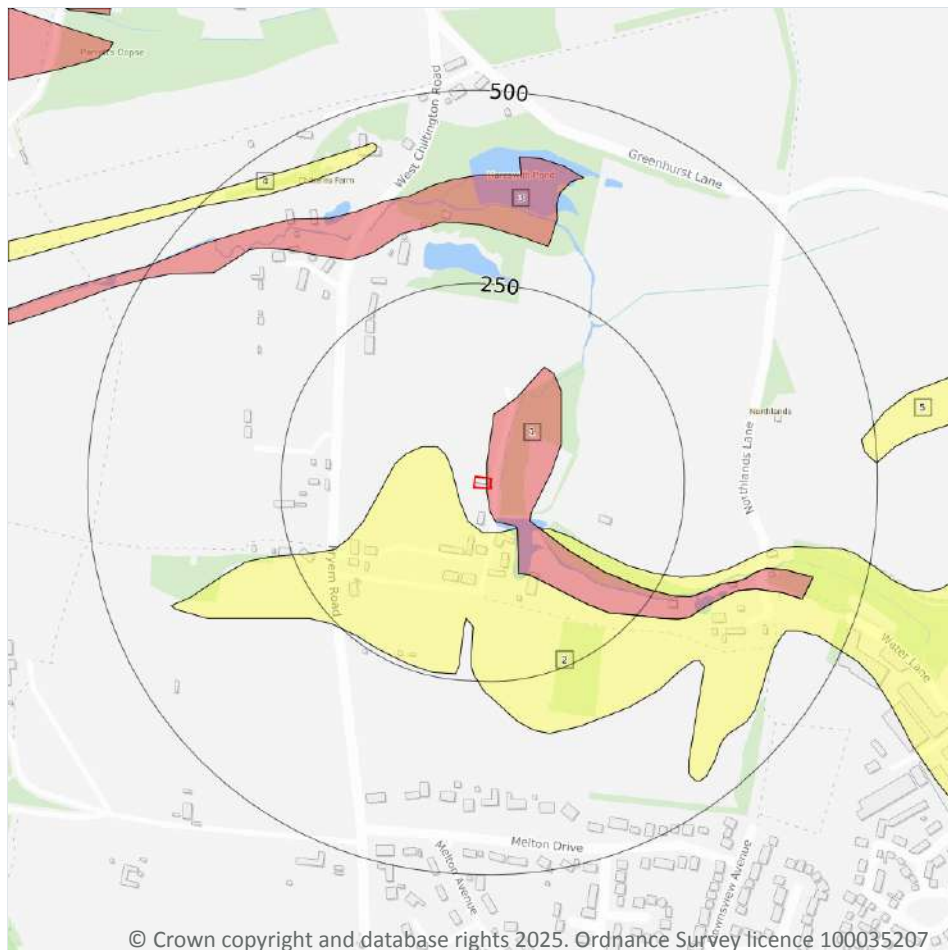
4.22 Pollution inventory radioactive waste

Records within 500m	0
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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

5

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 30](#) >

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	22m 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

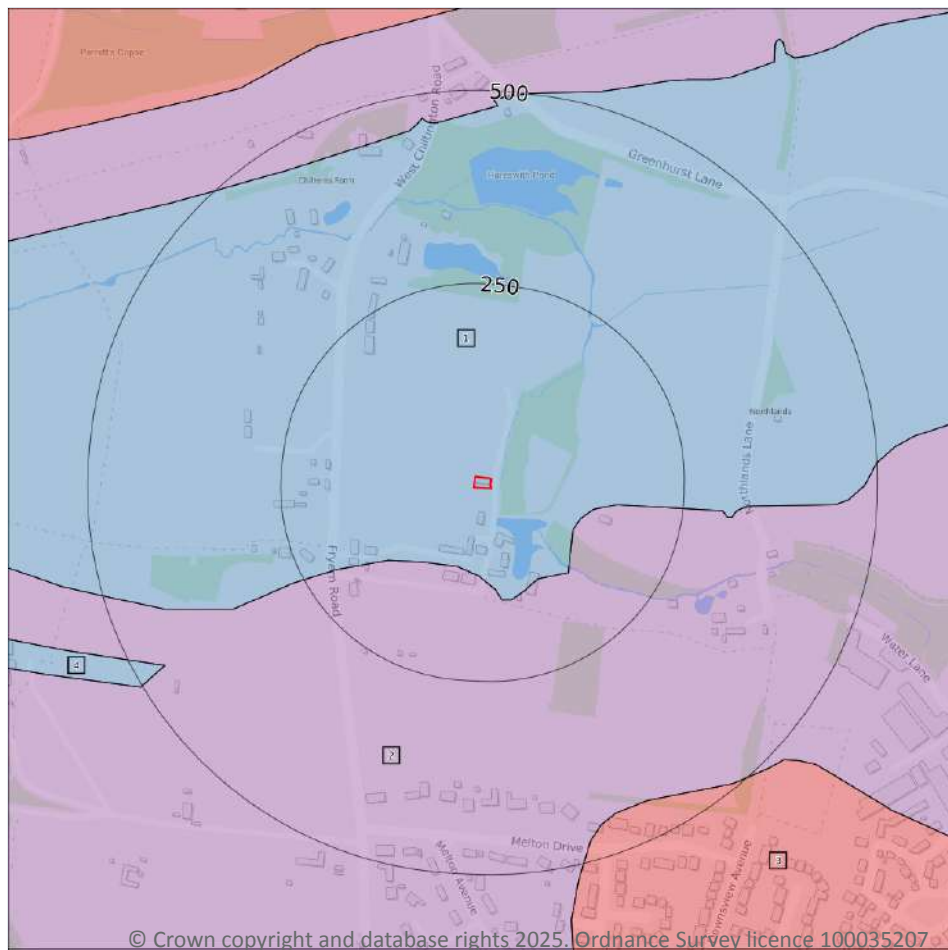


ID	Location	Designation	Description
3	309m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	432m N	Secondary 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	482m 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

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

4

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 32 >](#)

ID	Location	Designation	Description
1	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
2	104m S	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

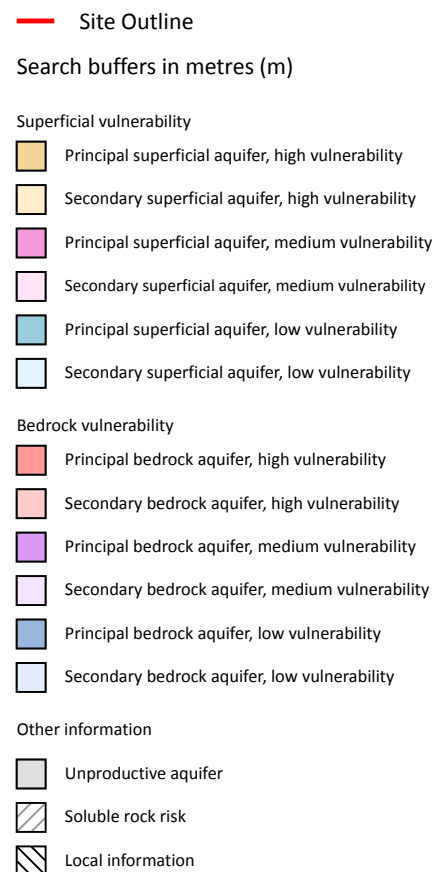
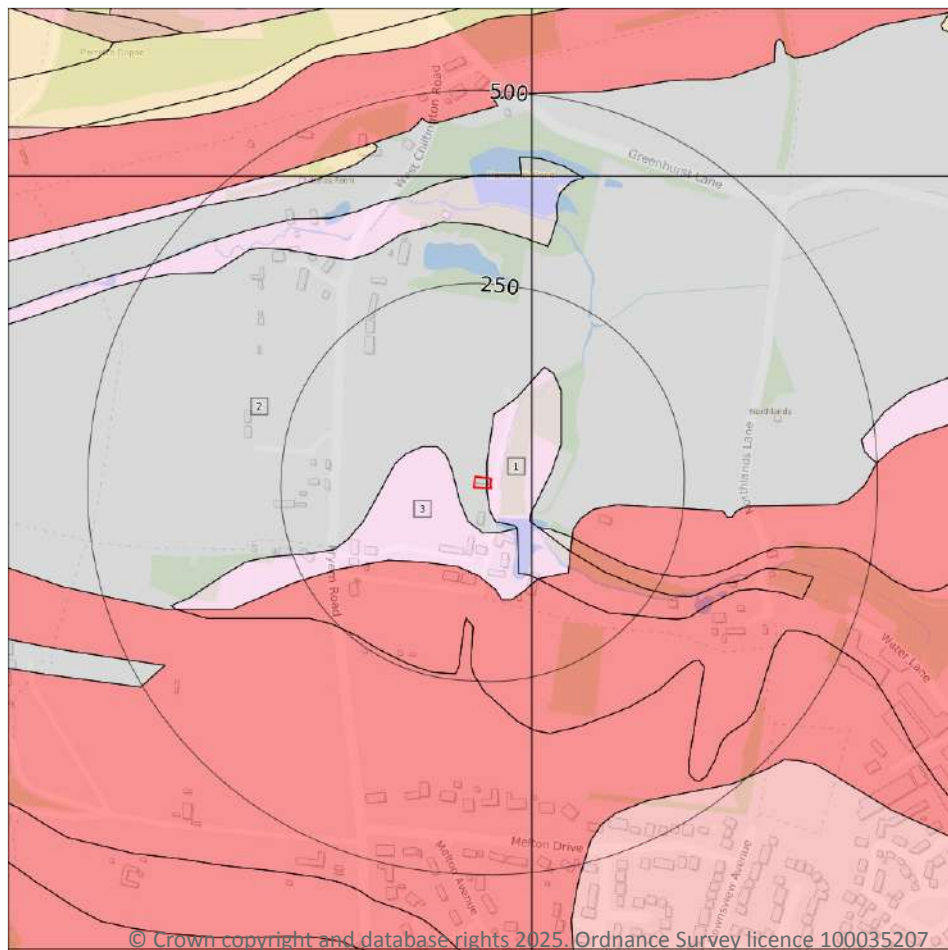


ID	Location	Designation	Description
3	450m S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	461m SW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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

3

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 34](#) >

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
2	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
3	22m W	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

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

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

5.5 Groundwater vulnerability- local information

Records on site

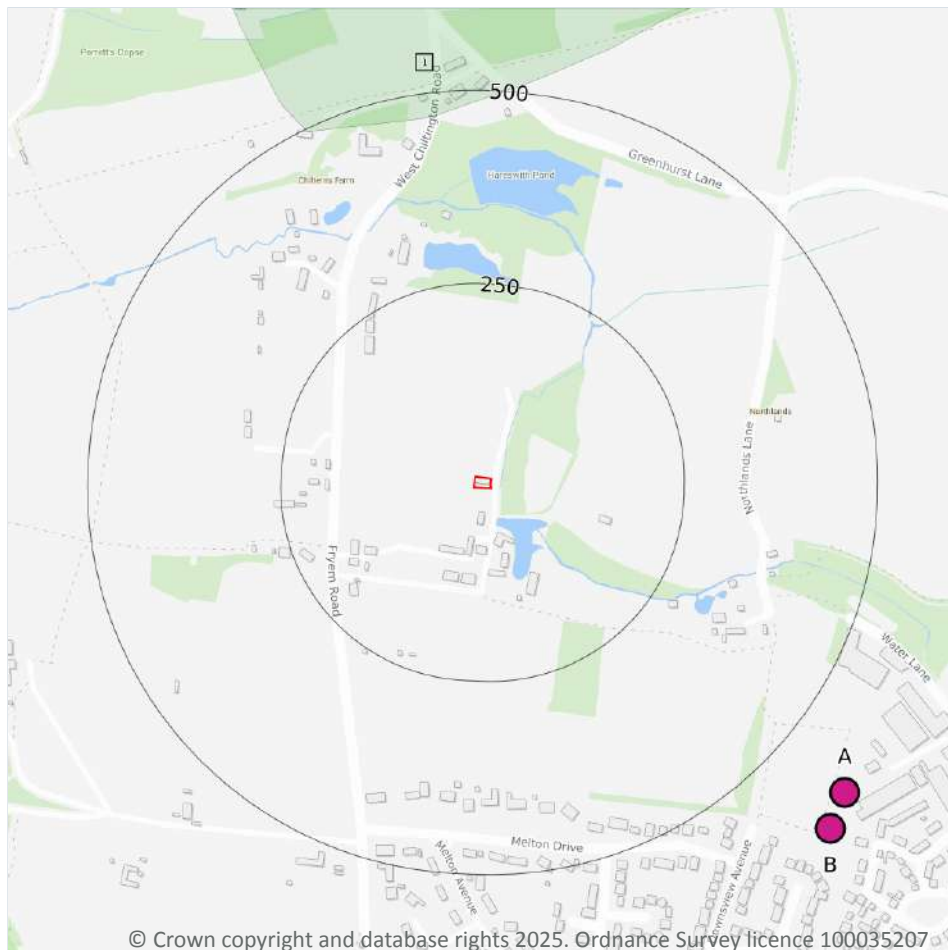
0

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

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



Abstractions and Source Protection Zones



- 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

23

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 36 >](#)

ID	Location	Details	
A	604m SE	Status: Active Licence No: SO/041/0025/012 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Southern Region Groundwater Point: BOREHOLE B DOWNSVIEW AVENUE Data Type: Point Name: Croudace Homes Limited Easting: 509405 Northing: 115203	Annual Volume (m ³): 11805 Max Daily Volume (m ³): 33 Original Application No: NPS/WR/036778 Original Start Date: 21/09/2023 Expiry Date: 31/03/2040 Issue No: 1 Version Start Date: 21/09/2023 Version End Date: -
B	622m SE	Status: Active Licence No: SO/041/0025/012 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Southern Region Groundwater Point: BOREHOLE A DOWNSVIEW AVENUE Data Type: Point Name: Croudace Homes Limited Easting: 509386 Northing: 115156	Annual Volume (m ³): 11805 Max Daily Volume (m ³): 33 Original Application No: NPS/WR/036778 Original Start Date: 21/09/2023 Expiry Date: 31/03/2040 Issue No: 1 Version Start Date: 21/09/2023 Version End Date: -
-	1281m SW	Status: Historical Licence No: SO/041/0025/017 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE A AT GREENACRES, HURSTON LANE, STORRINGTON Data Type: Point Name: Simon Patience (New Homes) LTD Easting: 507831 Northing: 114931	Annual Volume (m ³): 5866 Max Daily Volume (m ³): 26 Original Application No: NPS/WR/038562 Original Start Date: 26/09/2023 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 26/09/2023 Version End Date: -
-	1281m SW	Status: Historical Licence No: SO/041/0025/017 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Southern Region Groundwater Point: BOREHOLE A AT GREENACRES, HURSTON LANE, STORRINGTON Data Type: Point Name: Simon Patience (New Homes) LTD Easting: 507831 Northing: 114931	Annual Volume (m ³): 5866 Max Daily Volume (m ³): 26 Original Application No: NPS/WR/038562 Original Start Date: 26/09/2023 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 26/09/2023 Version End Date: -



ID	Location	Details	
-	1313m SW	Status: Historical Licence No: SO/041/0025/017 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE B AT GREENACRES, HURSTON LANE, STORRINGTON Data Type: Point Name: Simon Patience (New Homes) LTD Easting: 507786 Northing: 114943	Annual Volume (m ³): 5866 Max Daily Volume (m ³): 26 Original Application No: NPS/WR/038562 Original Start Date: 26/09/2023 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 26/09/2023 Version End Date: -
-	1313m SW	Status: Historical Licence No: SO/041/0025/017 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Southern Region Groundwater Point: BOREHOLE B AT GREENACRES, HURSTON LANE, STORRINGTON Data Type: Point Name: Simon Patience (New Homes) LTD Easting: 507786 Northing: 114943	Annual Volume (m ³): 5866 Max Daily Volume (m ³): 26 Original Application No: NPS/WR/038562 Original Start Date: 26/09/2023 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 26/09/2023 Version End Date: -
-	1416m N	Status: Historical Licence No: 10/41/415303 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: SMOCK ALLEY AT WEST CHILTINGTON BOREHOLE 1 Data Type: Point Name: Southern Water Services Ltd Easting: 509210 Northing: 117000	Annual Volume (m ³): 1244318.2 Max Daily Volume (m ³): 4363.64 Original Application No: WR.0578C Original Start Date: 11/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2016 Version End Date: -
-	1416m N	Status: Historical Licence No: 10/41/415303 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: SMOCK ALLEY AT WEST CHILTINGTON BOREHOLE 2 Data Type: Point Name: Southern Water Services Ltd Easting: 509210 Northing: 117000	Annual Volume (m ³): 1244318.2 Max Daily Volume (m ³): 4363.64 Original Application No: WR.0578C Original Start Date: 11/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2016 Version End Date: -



ID	Location	Details	
-	1416m N	Status: Historical Licence No: 10/41/415303 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Southern Region Groundwater Point: SMOCK ALLEY AT WEST CHILTINGTON BOREHOLE 1 Data Type: Point Name: Southern Water Services Plc Easting: 509210 Northing: 117000	Annual Volume (m ³): 1244318.20 Max Daily Volume (m ³): 4363.64 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 08/06/2009 Version End Date: -
-	1416m N	Status: Historical Licence No: 10/41/415303 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Southern Region Groundwater Point: SMOCK ALLEY AT WEST CHILTINGTON BOREHOLE 2 Data Type: Point Name: Southern Water Services Plc Easting: 509210 Northing: 117000	Annual Volume (m ³): 1244318.20 Max Daily Volume (m ³): 4363.64 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 08/06/2009 Version End Date: -
-	1416m N	Status: Active Licence No: 10/41/415303 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: SMOCK ALLEY AT WEST CHILTINGTON BOREHOLE 1 Data Type: Point Name: Southern Water Services Ltd Easting: 509210 Northing: 117000	Annual Volume (m ³): 1253584.32 Max Daily Volume (m ³): 4364.25 Original Application No: WR.0578C Original Start Date: 11/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2016 Version End Date: -
-	1416m N	Status: Active Licence No: 10/41/415303 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: SMOCK ALLEY AT WEST CHILTINGTON BOREHOLE 2 Data Type: Point Name: Southern Water Services Ltd Easting: 509210 Northing: 117000	Annual Volume (m ³): 1253584.32 Max Daily Volume (m ³): 4364.25 Original Application No: WR.0578C Original Start Date: 11/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2016 Version End Date: -



ID	Location	Details	
-	1668m N	Status: Active Licence No: SO/041/0025/018 Details: General Use Relating To Secondary Category (High Loss) Direct Source: Southern Region Groundwater Point: BOREHOLE AT CASTLE PROPERTIES SMOCK ALLEY Data Type: Point Name: Castle Properties (Southern) Limited Easting: 509173 Northing: 117262	Annual Volume (m ³): 7856 Max Daily Volume (m ³): 23 Original Application No: NPS/WR/038719 Original Start Date: 13/03/2024 Expiry Date: 31/03/2040 Issue No: 1 Version Start Date: 13/03/2024 Version End Date: -
-	1668m N	Status: Active Licence No: SO/041/0025/018 Details: Raw Water Supply Direct Source: Southern Region Groundwater Point: BOREHOLE AT CASTLE PROPERTIES SMOCK ALLEY Data Type: Point Name: Castle Properties (Southern) Limited Easting: 509173 Northing: 117262	Annual Volume (m ³): 7856 Max Daily Volume (m ³): 23 Original Application No: NPS/WR/038719 Original Start Date: 13/03/2024 Expiry Date: 31/03/2040 Issue No: 1 Version Start Date: 13/03/2024 Version End Date: -
-	1754m S	Status: Active Licence No: 10/41/415407 Details: Mineral Washing Direct Source: Southern Region Groundwater Point: SAND QUARRY AT CHANTRY LANE Data Type: Point Name: Dudman Chantry (Industries) Ltd Easting: 509430 Northing: 113910	Annual Volume (m ³): 99000 Max Daily Volume (m ³): 660 Original Application No: - Original Start Date: 10/07/1989 Expiry Date: - Issue No: 102 Version Start Date: 16/04/2019 Version End Date: -
-	1803m SE	Status: Active Licence No: 25/084 Details: Mineral Washing Direct Source: Southern Region Groundwater Point: POINT A, SANDGATE PIT, STORRINGTON Data Type: Point Name: Cemex UK Materials Ltd Easting: 510200 Northing: 114300	Annual Volume (m ³): 250000 Max Daily Volume (m ³): 910 Original Application No: NPS/WR/030715 Original Start Date: 21/05/1993 Expiry Date: - Issue No: 103 Version Start Date: 21/12/2018 Version End Date: -
-	1807m NE	Status: Historical Licence No: 25/097/R01 Details: Horticultural Watering Direct Source: Southern Region Groundwater Point: CHESSWOOD NURSERIES POINT B Data Type: Point Name: Thakeham Mushrooms Limited Easting: 510179 Northing: 116931	Annual Volume (m ³): 88650 Max Daily Volume (m ³): 330 Original Application No: - Original Start Date: 04/05/2016 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 04/05/2016 Version End Date: -



ID	Location	Details	
-	1828m NE	Status: Historical Licence No: 10/41/415302 Details: Horticultural Watering Direct Source: Southern Region Groundwater Point: CHESSWOOD NURSERIES POINT 2 Data Type: Point Name: Heveco Mushrooms Ltd Easting: 510210 Northing: 116930	Annual Volume (m ³): 88650 Max Daily Volume (m ³): 330 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 01/04/2001 Version End Date: -
-	1828m NE	Status: Historical Licence No: 25/097 Details: Horticultural Watering Direct Source: Southern Region Groundwater Point: CHESSWOOD NURSERIES POINT B Data Type: Point Name: Thakeham Mushrooms Limited Easting: 510210 Northing: 116930	Annual Volume (m ³): 88650 Max Daily Volume (m ³): 330 Original Application No: - Original Start Date: 06/10/2008 Expiry Date: 31/03/2016 Issue No: 2 Version Start Date: 06/06/2013 Version End Date: -
-	1883m SE	Status: Active Licence No: SO/041/0025/006 Details: Dewatering Direct Source: Southern Region Groundwater Point: FOKLSTONE BEDS AT SANDGATE QUARRY Data Type: Poly4 Name: Cemex UK Materials Ltd Easting: 510255 Northing: 114241	Annual Volume (m ³): 2295120 Max Daily Volume (m ³): 6288 Original Application No: NPS/NA/000103 Original Start Date: 18/01/2022 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 18/01/2022 Version End Date: -
-	1960m NW	Status: Historical Licence No: 10/41/415309 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: WEST SUSSEX GOLF CLUB AT WIGGONHOLT Data Type: Point Name: West Sussex Golf Club Easting: 507310 Northing: 116720	Annual Volume (m ³): 12000 Max Daily Volume (m ³): 130 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 08/06/2009 Version End Date: -
-	1975m NW	Status: Active Licence No: 10/41/415309 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: WEST SUSSEX GOLF CLUB AT WIGGONHOLT Data Type: Point Name: West Sussex Golf Club Easting: 507325 Northing: 116767	Annual Volume (m ³): 12000 Max Daily Volume (m ³): 130 Original Application No: NPS/WR/012954 Original Start Date: 15/10/1984 Expiry Date: - Issue No: 101 Version Start Date: 16/04/2019 Version End Date: -



ID	Location	Details	
-	1975m NW	Status: Historical Licence No: 10/41/415309 Details: Spray Irrigation - Storage Direct Source: Southern Region Groundwater Point: WEST SUSSEX GOLF CLUB AT WIGGONHOLT Data Type: Point Name: West Sussex Golf Club Easting: 507325 Northing: 116767	Annual Volume (m ³): 23363 Max Daily Volume (m ³): 130 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 30/05/2013 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	0
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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	8
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Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 36 >](#)

ID	Location	Details	
A	604m SE	Status: Active Licence No: SO/041/0025/012 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Southern Region Groundwater Point: BOREHOLE B DOWNSVIEW AVENUE Data Type: Point Name: Croudace Homes Limited Easting: 509405 Northing: 115203	Annual Volume (m ³): 11805 Max Daily Volume (m ³): 33 Original Application No: NPS/WR/036778 Original Start Date: 21/09/2023 Expiry Date: 31/03/2040 Issue No: 1 Version Start Date: 21/09/2023 Version End Date: -



ID	Location	Details	
B	622m SE	Status: Active Licence No: SO/041/0025/012 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Southern Region Groundwater Point: BOREHOLE A DOWNSVIEW AVENUE Data Type: Point Name: Croudace Homes Limited Easting: 509386 Northing: 115156	Annual Volume (m ³): 11805 Max Daily Volume (m ³): 33 Original Application No: NPS/WR/036778 Original Start Date: 21/09/2023 Expiry Date: 31/03/2040 Issue No: 1 Version Start Date: 21/09/2023 Version End Date: -
-	1281m SW	Status: Historical Licence No: SO/041/0025/017 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Southern Region Groundwater Point: BOREHOLE A AT GREENACRES, HURSTON LANE, STORRINGTON Data Type: Point Name: Simon Patience (New Homes) LTD Easting: 507831 Northing: 114931	Annual Volume (m ³): 5866 Max Daily Volume (m ³): 26 Original Application No: NPS/WR/038562 Original Start Date: 26/09/2023 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 26/09/2023 Version End Date: -
-	1313m SW	Status: Historical Licence No: SO/041/0025/017 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Southern Region Groundwater Point: BOREHOLE B AT GREENACRES, HURSTON LANE, STORRINGTON Data Type: Point Name: Simon Patience (New Homes) LTD Easting: 507786 Northing: 114943	Annual Volume (m ³): 5866 Max Daily Volume (m ³): 26 Original Application No: NPS/WR/038562 Original Start Date: 26/09/2023 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 26/09/2023 Version End Date: -
-	1416m N	Status: Historical Licence No: 10/41/415303 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: SMOCK ALLEY AT WEST CHILTINGTON BOREHOLE 1 Data Type: Point Name: Southern Water Services Ltd Easting: 509210 Northing: 117000	Annual Volume (m ³): 1244318.2 Max Daily Volume (m ³): 4363.64 Original Application No: WR.0578C Original Start Date: 11/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2016 Version End Date: -



ID	Location	Details	
-	1416m N	Status: Historical Licence No: 10/41/415303 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: SMOCK ALLEY AT WEST CHILTINGTON BOREHOLE 2 Data Type: Point Name: Southern Water Services Ltd Easting: 509210 Northing: 117000	Annual Volume (m ³): 1244318.2 Max Daily Volume (m ³): 4363.64 Original Application No: WR.0578C Original Start Date: 11/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2016 Version End Date: -
-	1416m N	Status: Active Licence No: 10/41/415303 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: SMOCK ALLEY AT WEST CHILTINGTON BOREHOLE 1 Data Type: Point Name: Southern Water Services Ltd Easting: 509210 Northing: 117000	Annual Volume (m ³): 1253584.32 Max Daily Volume (m ³): 4364.25 Original Application No: WR.0578C Original Start Date: 11/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2016 Version End Date: -
-	1416m N	Status: Active Licence No: 10/41/415303 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: SMOCK ALLEY AT WEST CHILTINGTON BOREHOLE 2 Data Type: Point Name: Southern Water Services Ltd Easting: 509210 Northing: 117000	Annual Volume (m ³): 1253584.32 Max Daily Volume (m ³): 4364.25 Original Application No: WR.0578C Original Start Date: 11/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2016 Version End Date: -

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

5.9 Source Protection Zones

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

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on [page 36 >](#)

ID	Location	Type	Description
1	468m N	3	Total catchment

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



5.10 Source Protection Zones (confined aquifer)

Records within 500m

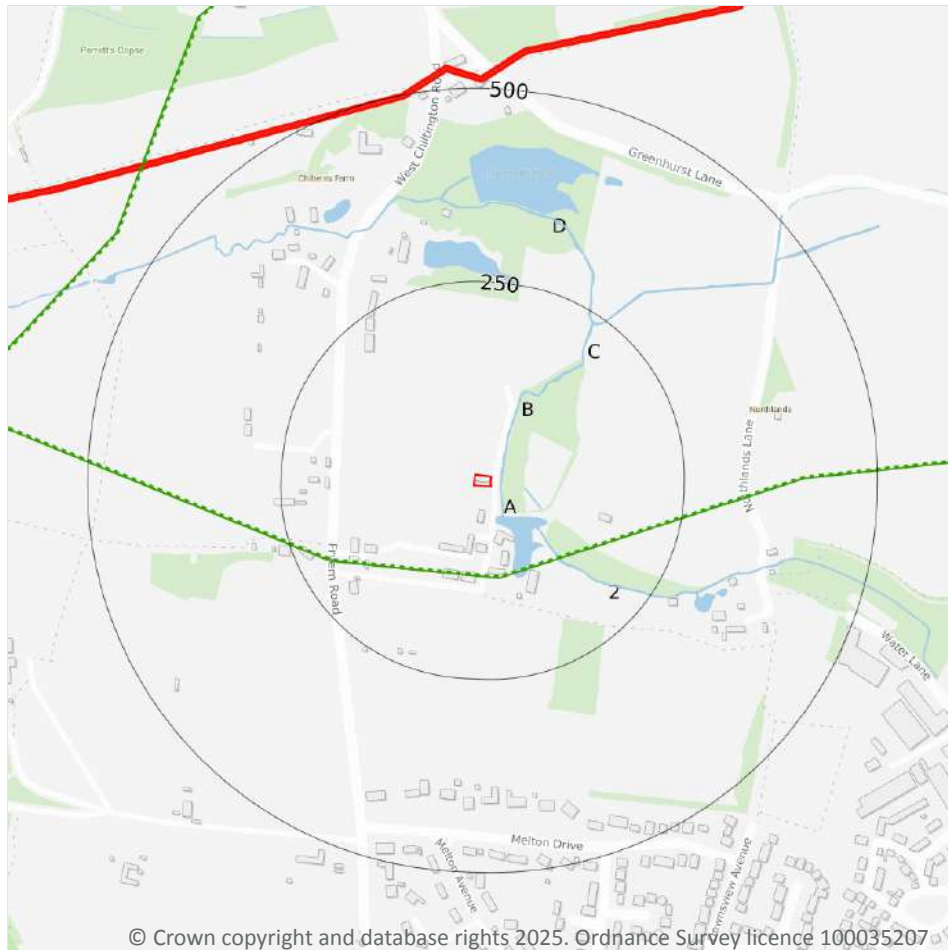
0

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

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



6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

13

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 46 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
A	12m E	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
B	12m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	38m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	40m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	44m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
2	80m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	189m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	238m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	238m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	241m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	243m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	244m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	244m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.



6.2 Surface water features

Records within 250m

4

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 46 >](#)

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 46 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River	Stor	GB107041012100	Arun Lower	Arun and Western Streams

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 46 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1354m W	River	Stor	GB107041012100 ↗	Moderate	Fail	Moderate	2019

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



6.5 WFD Groundwater bodies

Records on site

0

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

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



7 River and coastal flooding



- Site Outline
- Search buffers in metres (m)
- River and coastal flooding:
- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m

3

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

Features are displayed on the River and coastal flooding map on [page 50 >](#)



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

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

7.2 Historical Flood Events

Records within 250m	0
----------------------------	----------

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

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

7.3 Flood Defences

Records within 250m	0
----------------------------	----------

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	0
----------------------------	----------

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

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

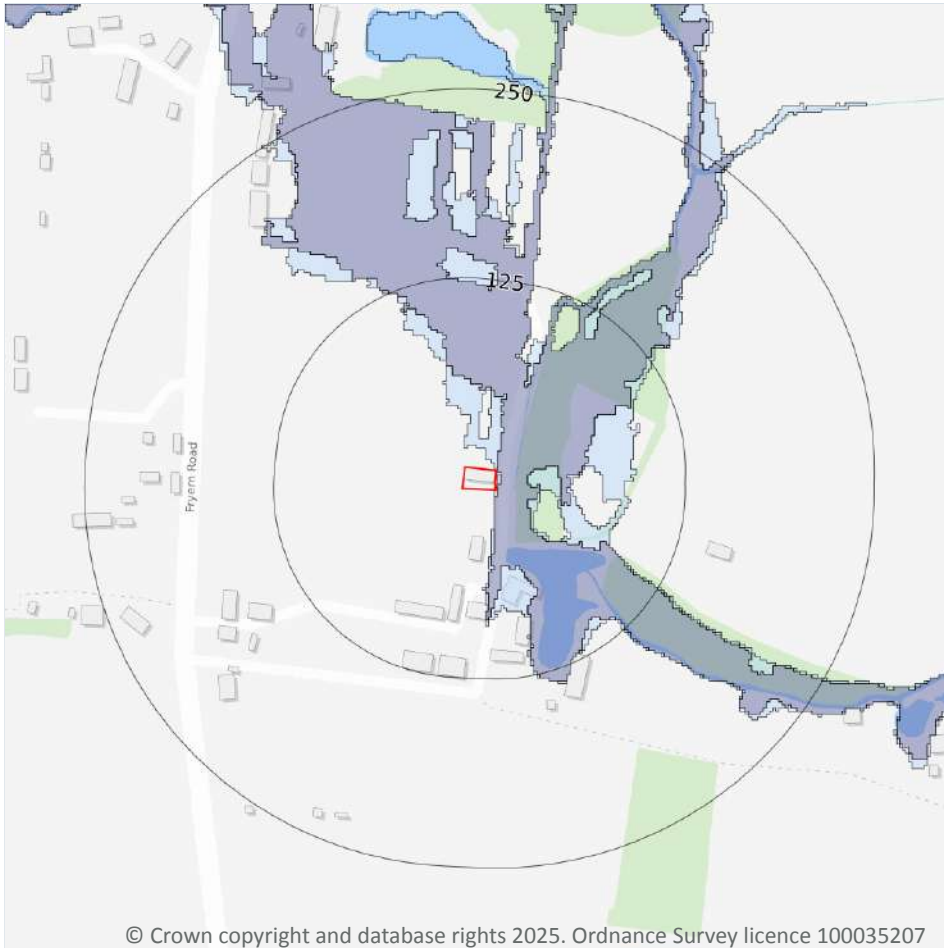
7.5 Flood Storage Areas

Records within 250m	0
----------------------------	----------

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

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

River and coastal flooding - Flood Zones



- Site Outline
- Search buffers in metres (m)
- Flood zone 2
- Flood zone 3

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7.6 Flood Zone 2

Records within 50m

1

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

Features are displayed on the River and coastal flooding map on [page 50](#) >

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

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



7.7 Flood Zone 3

Records within 50m

1

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

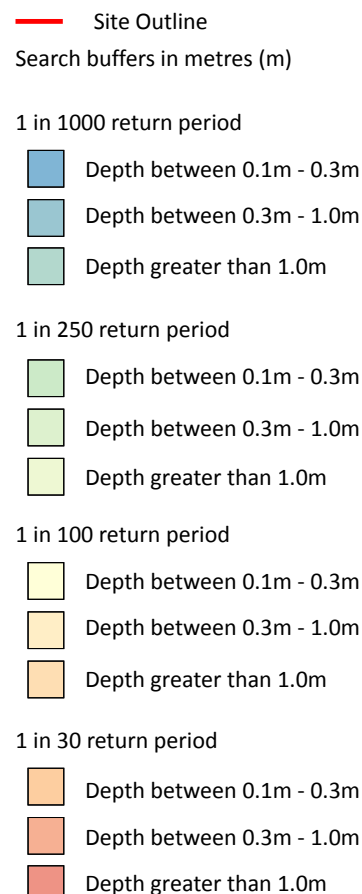
Features are displayed on the River and coastal flooding map on [page 50](#) >

Location	Type
1m E	Zone 3 - (Fluvial /Tidal Models)

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

1 in 100 year, 0.1m - 0.3m

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 54 >](#)

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

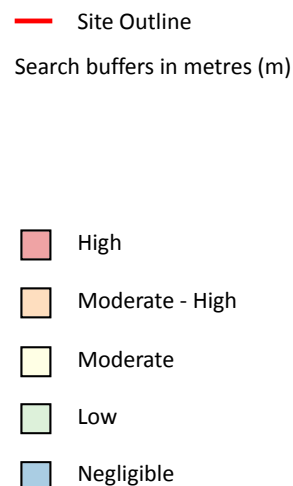
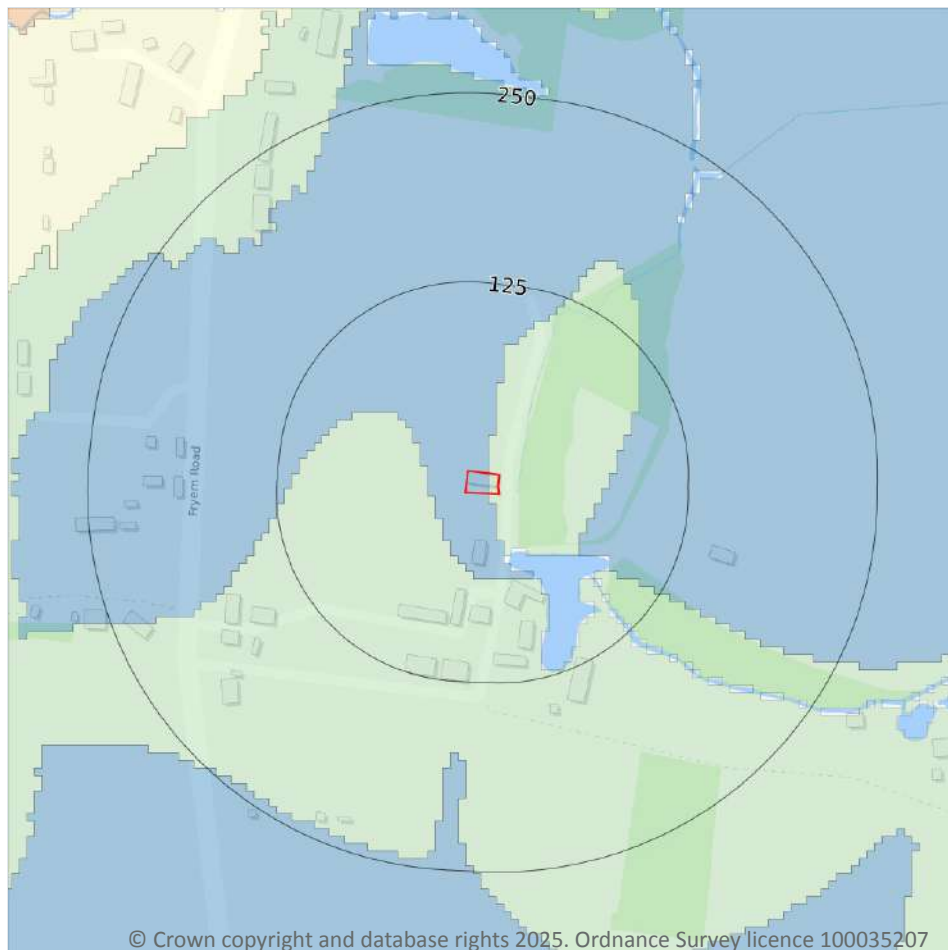
The table below shows the maximum flood depths for a range of return periods for the site.

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

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

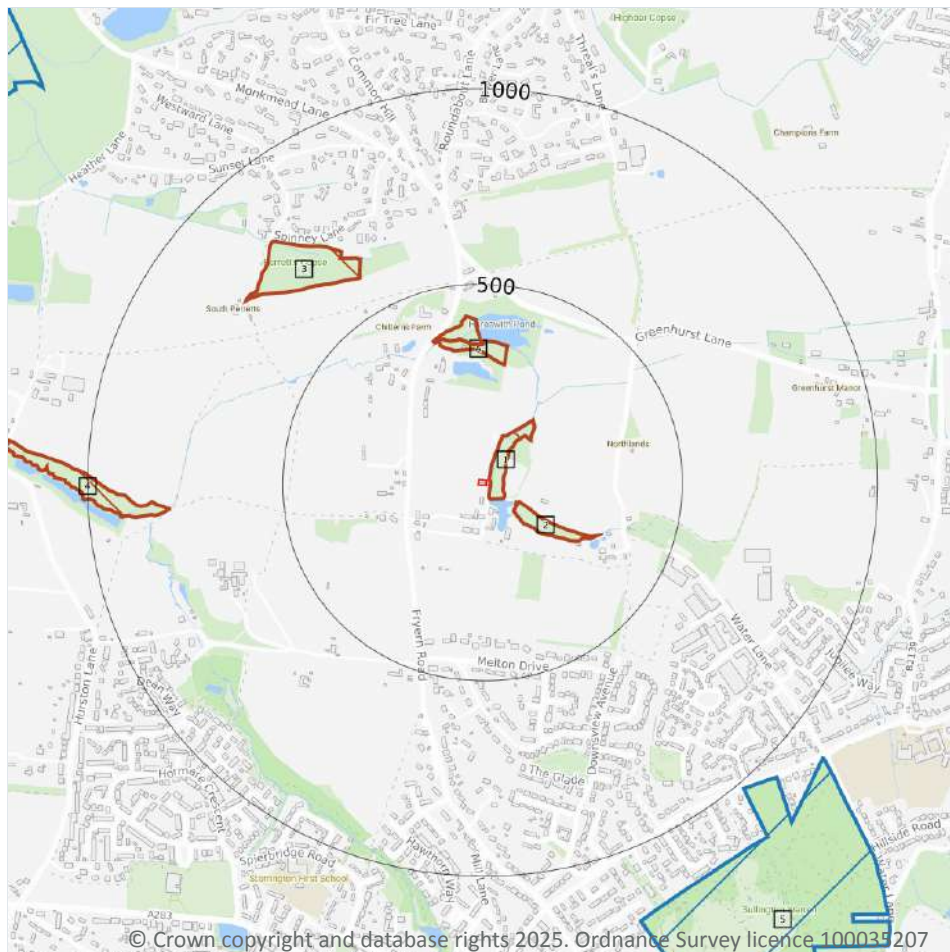
Low

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 56 >](#)

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

4

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

Features are displayed on the Environmental designations map on [page 57](#) >

ID	Location	Name	Data source
5	1017m SE	Sullington Warren SSSI	Natural England



ID	Location	Name	Data source
7	1501m NW	Hurston Warren SSSI	Natural England
-	1667m S	Chantry Mill SSSI	Natural England
-	1930m W	Parham Park SSSI	Natural England

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m**0**

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

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

10.7 Designated Ancient Woodland

Records within 2000m**8**

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 57 >](#)

ID	Location	Name	Woodland Type
1	7m E	Unknown	Ancient & Semi-Natural Woodland
2	88m SE	Unknown	Ancient & Semi-Natural Woodland
A	299m N	Unknown	Ancient & Semi-Natural Woodland
A	346m N	Unknown	Ancient & Semi-Natural Woodland
3	599m NW	Furze Field	Ancient & Semi-Natural Woodland
4	793m W	Unknown	Ancient & Semi-Natural Woodland
-	1326m W	Unknown	Ancient & Semi-Natural Woodland
-	1998m S	Unknown	Ancient & Semi-Natural Woodland

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



10.8 Biosphere Reserves

Records within 2000m

0

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

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

10.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

0

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

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

10.12 Proposed Ramsar sites

Records within 2000m

0

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

This data is sourced from Natural England.



10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m**0**

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m**0**

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

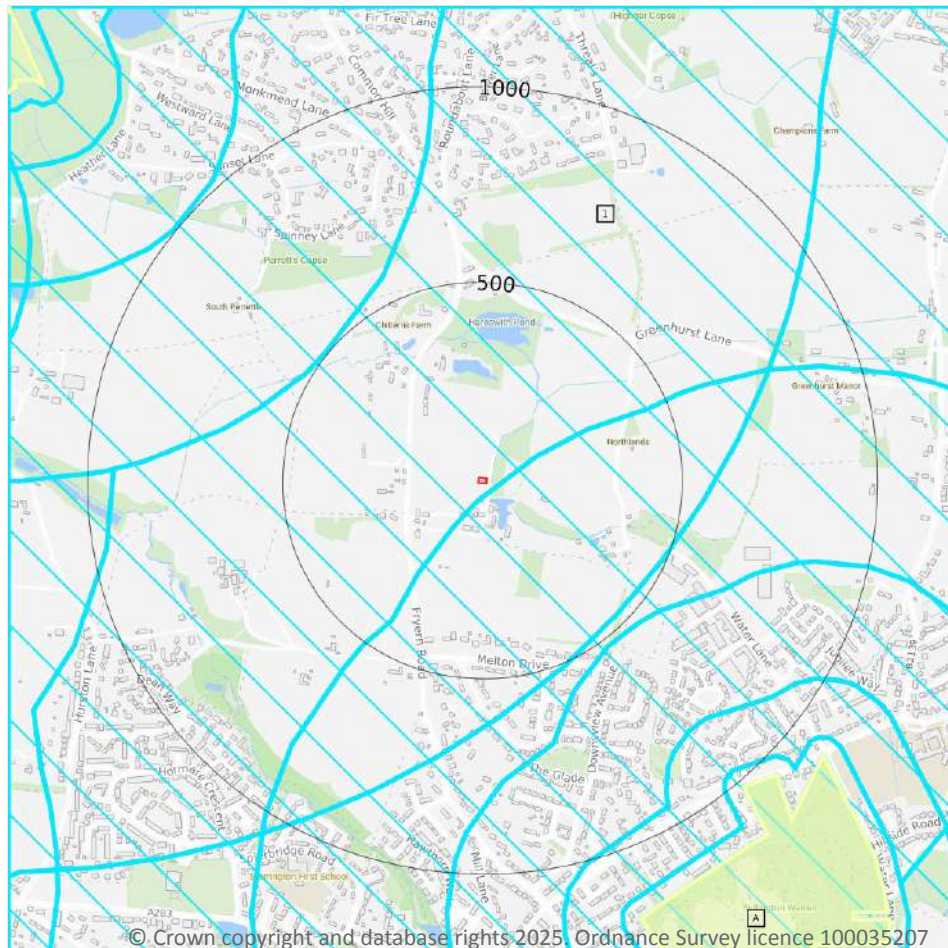
Records within 2000m**0**

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

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



SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site

1

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

Features are displayed on the SSSI Impact Zones and Units map on [page 62](#) >

ID	Location	Type of developments requiring consultation
1	On site	https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0101305322342&notes=11301&location=508184,118625%20(IRZ%20polygon%20centre)

This data is sourced from Natural England.



10.18 SSSI Units

Records within 2000m

5

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

Features are displayed on the SSSI Impact Zones and Units map on [page 62 >](#)

ID: A
 Location: 1017m SE
 SSSI name: Sullington Warren
 Unit name: 1
 Broad habitat: Dwarf Shrub Heath - Lowland
 Condition: Unfavourable - Recovering
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Scrub, Woodland	Unfavourable - Recovering	29/07/2009
Lowland dry heath	Unfavourable - Recovering	03/03/2022

ID: 18
 Location: 1501m NW
 SSSI name: Hurston Warren
 Unit name: Hurston Warren
 Broad habitat: Dwarf Shrub Heath - Lowland
 Condition: Unfavourable - Recovering
 Reportable features:

Feature name	Feature condition	Date of assessment
Lowland dry heath	Not Recorded	01/01/1900
Lowland wet heath	Not Recorded	01/01/1900
Raised bog (lowland)	Not Recorded	01/01/1900

ID: -
 Location: 1667m S
 SSSI name: Chantry Mill
 Unit name: 1
 Broad habitat: Earth Heritage
 Condition: Favourable



Reportable features:

Feature name	Feature condition	Date of assessment
EA - Aptian - Albian	Favourable	16/11/2021

ID: -
 Location: 1695m NW
 SSSI name: Hurston Warren
 Unit name: Monkmead Wood
 Broad habitat: Dwarf Shrub Heath - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Lowland wet heath	Favourable	12/03/2013

ID: -
 Location: 1930m W
 SSSI name: Parham Park
 Unit name: Bog Common
 Broad habitat: Bogs - Lowland
 Condition: Unfavourable - Declining
 Reportable features:

Feature name	Feature condition	Date of assessment
Invert. assemblage A211 heartwood decay	Unfavourable - Declining	30/11/2010
Invert. assemblage A212 bark and sapwood decay	Unfavourable - Declining	30/11/2010
Invert. assemblage A213 fungal fruiting body	Unfavourable - Declining	30/11/2010
Lichen assemblage	Unfavourable - Declining	30/11/2010

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

11 Visual and cultural designations



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

1

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

Features are displayed on the Visual and cultural designations map on [page 65 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
1	138m SE	West Wantley Farmhouse	II*	1027238	15/03/1955

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

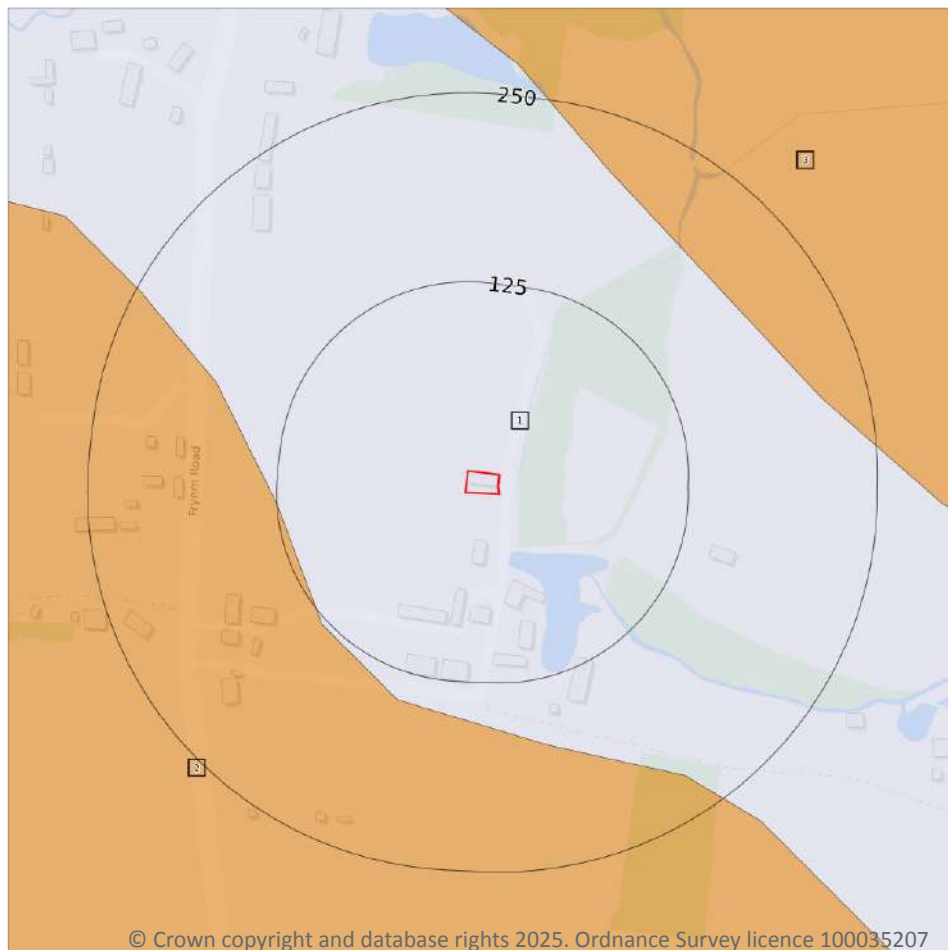
Records within 250m

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

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12.1 Agricultural Land Classification

Records within 250m

3

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 68](#) >

ID	Location	Classification	Description
1	On site	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.



ID	Location	Classification	Description
2	120m W	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
3	190m NE	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.



12.5 Countryside Stewardship Schemes

Records within 250m

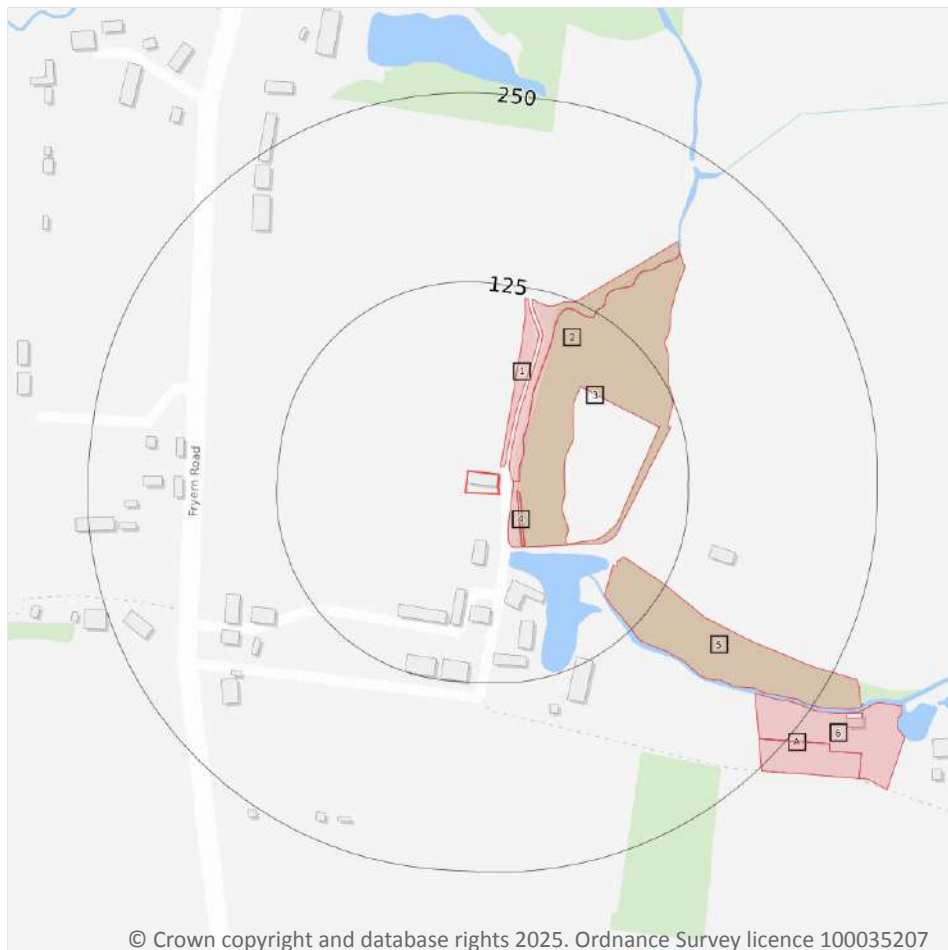
0

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

This data is sourced from Natural England.



13 Habitat designations



- 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

8

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 71](#) >

ID	Location	Main Habitat	Other habitats
1	5m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	7m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	9m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	12m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
5	88m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	214m SE	No main habitat but additional habitats present	Main habitat: DWOOD (INV > 50%)
A	236m SE	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
A	236m SE	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

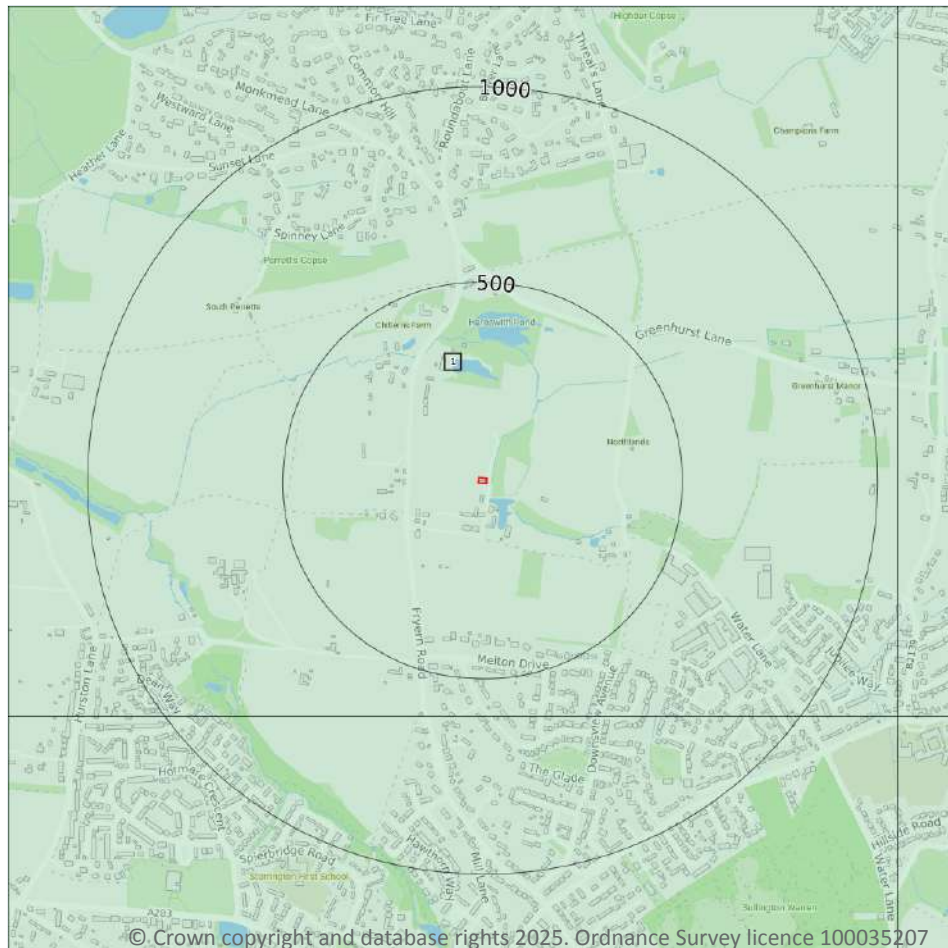
0

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:10,000 scale - Availability map on [page 73](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	TQ01NE

This data is sourced from the British Geological Survey.

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



- Site Outline**
- Search buffers in metres (m)**
- Reclaimed ground
 - Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

2

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.

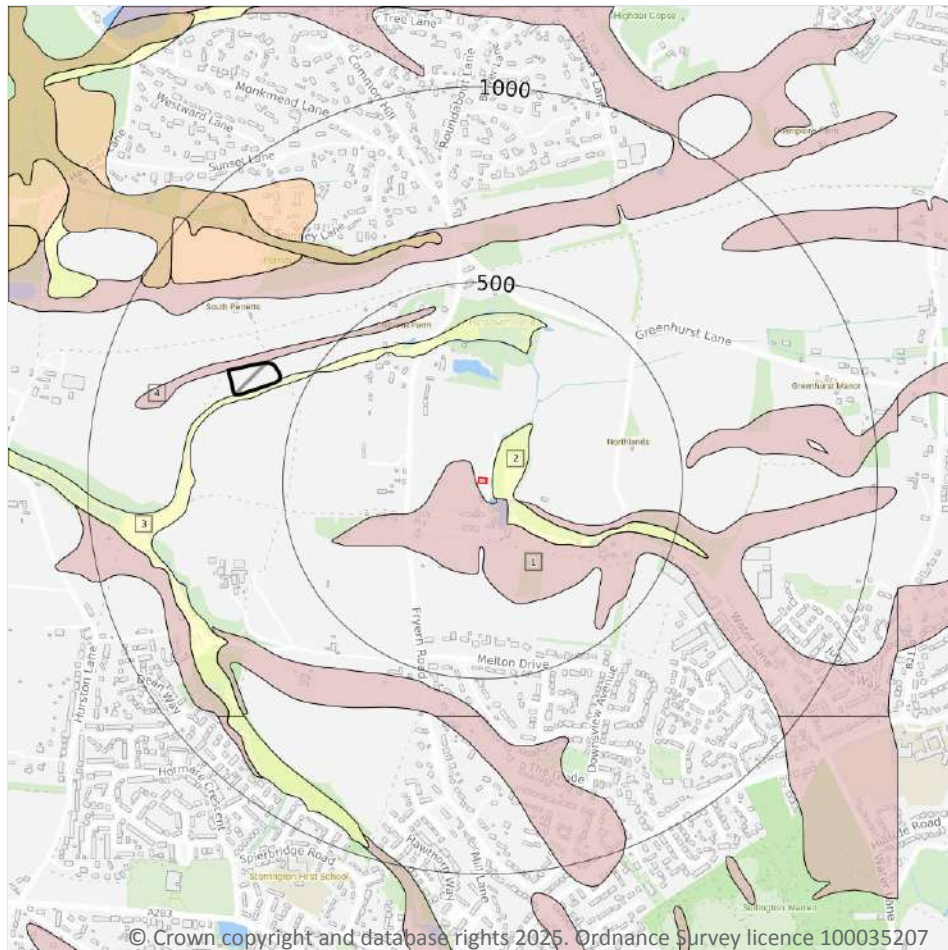
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 74](#) >

ID	Location	LEX Code	Description	Rock description
1	354m NW	MGR-UKNOWN	Made Ground (Undivided)	Unknown/unclassified Entry
2	444m E	MGR-UKNOWN	Made Ground (Undivided)	Unknown/unclassified Entry

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

4

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 75 >](#)

ID	Location	LEX Code	Description	Rock description
1	5m W	HEAD-DMTN	Head - Diamicton	Diamicton
2	14m E	ALV-XSC	Alluvium - Sand And Clay	Sand And Clay
3	335m N	ALV-XSC	Alluvium - Sand And Clay	Sand And Clay



ID	Location	LEX Code	Description	Rock description
4	433m N	HEAD-DMTN	Head - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

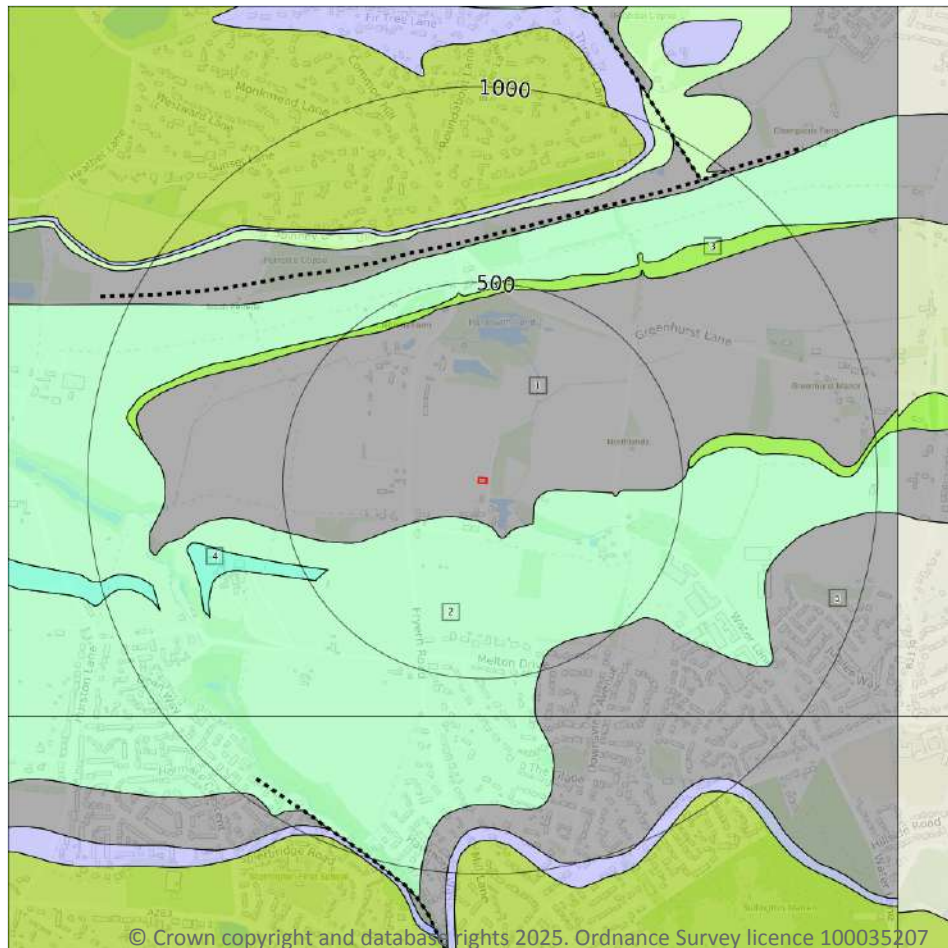
0

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

5

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 77 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	WC-CLAY	Weald Clay Formation - Clay	Barremian Age - Hauterivian Age
2	95m S	HY-SDST	Hythe Formation - Sandstone	Aptian Age
3	433m N	AC-MDST	Atherfield Clay Formation - Mudstone	Aptian Age
4	445m SW	HY-MDST	Hythe Formation - Mudstone	Aptian Age



ID	Location	LEX Code	Description	Rock age
5	452m SE	FIB-SDST	Fittleworth Member - Sandstone	Aptian Age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

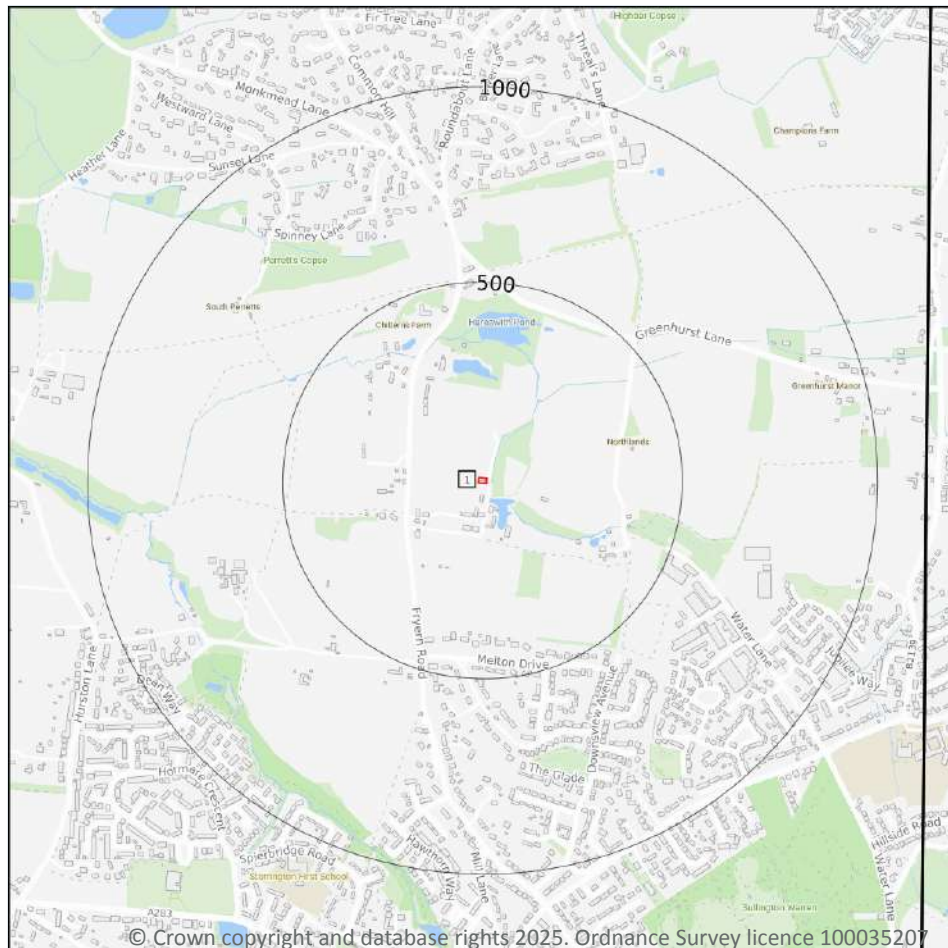
0

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

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on [page 79](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW317_332_chichester_and_bognor_v4

This data is sourced from the British Geological Survey.



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

15.2 Artificial and made ground (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

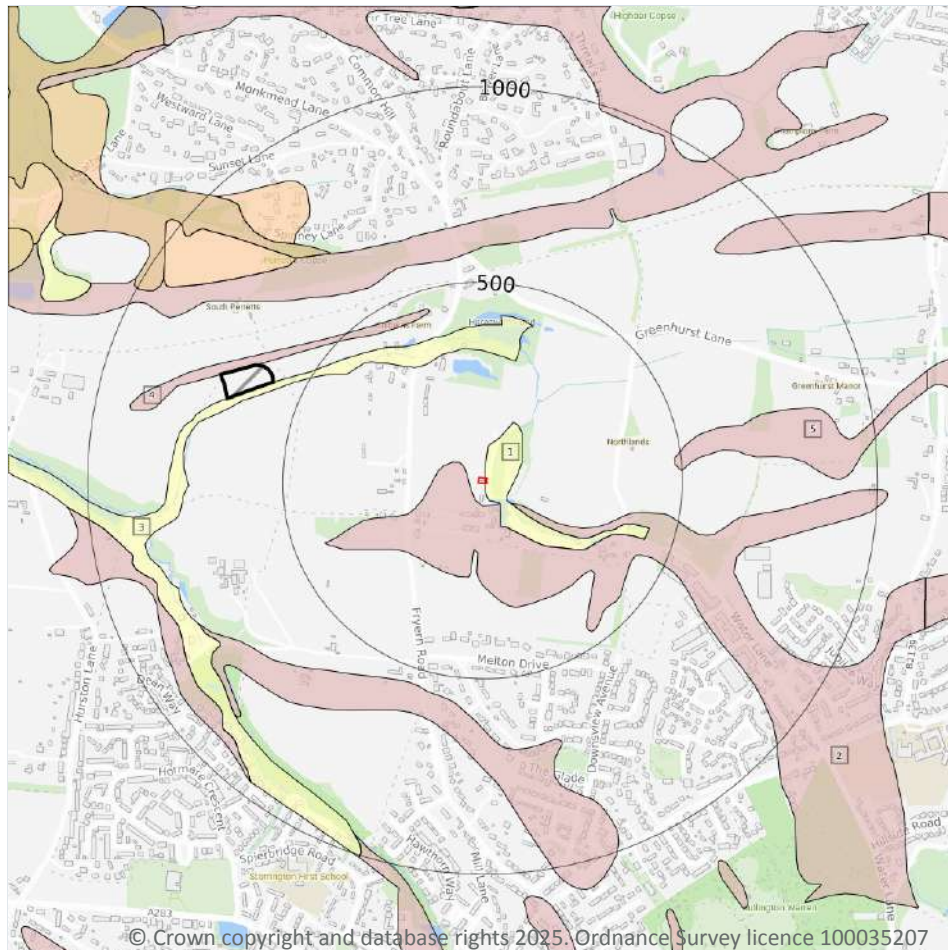
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

 Land slip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

5

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 81](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
2	22m W	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
3	309m N	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
4	432m N	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
5	482m E	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m **2**

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	High	Very Low
22m W	Mixed	High	Very Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m **0**

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

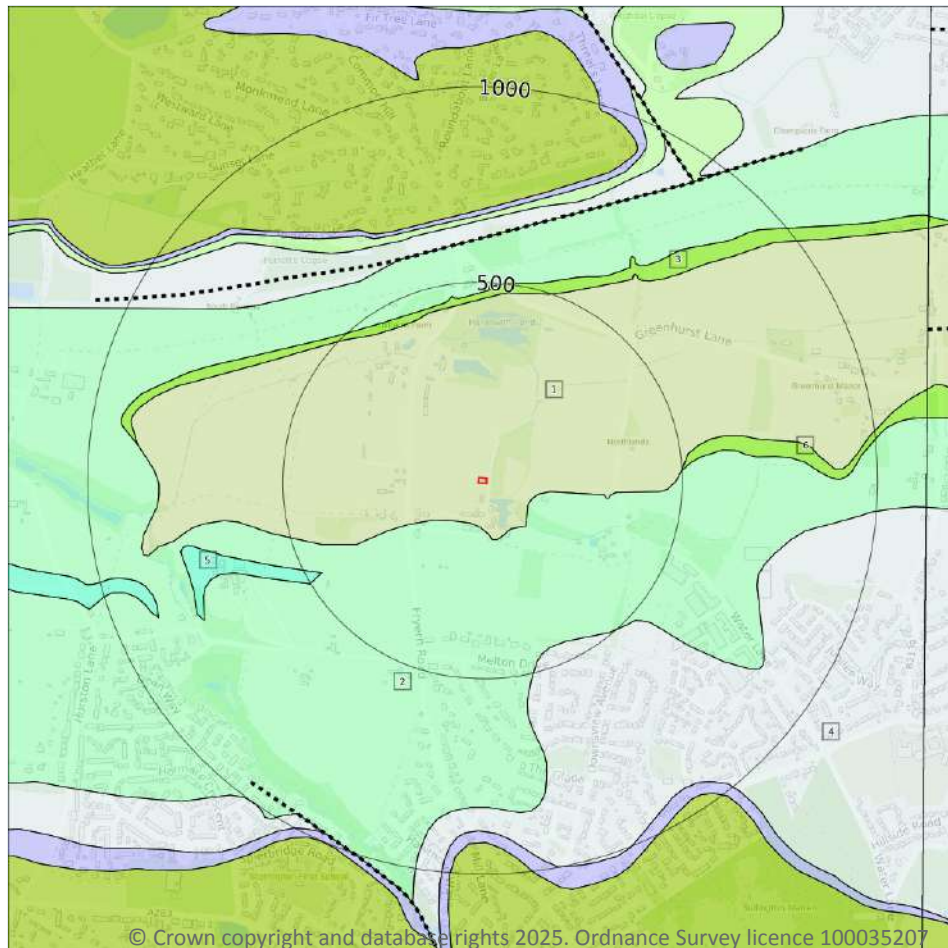
Records within 50m **0**

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

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

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

15.8 Bedrock geology (50k)

Records within 500m

6

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 83](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	WC-MDST	WEALD CLAY FORMATION - MUDSTONE	HAUTERIVIAN
2	104m S	HY-SDST	HYTHE FORMATION - SANDSTONE	APTIAN
3	432m N	AC-MDST	ATHERFIELD CLAY FORMATION - MUDSTONE	APTIAN
4	450m S	FIB-STMD	FITTLEWORTH MEMBER - SANDSTONE AND MUDSTONE	APTIAN

ID	Location	LEX Code	Description	Rock age
5	461m SW	HY-MDST	HYPHE FORMATION - MUDSTONE	APTIAN
6	499m E	AC-MDST	ATHERFIELD CLAY FORMATION - MUDSTONE	APTIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m **1**

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Low	Very Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m **0**

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

This data is sourced from the British Geological Survey.



16 Boreholes

16.1 BGS Boreholes

Records within 250m

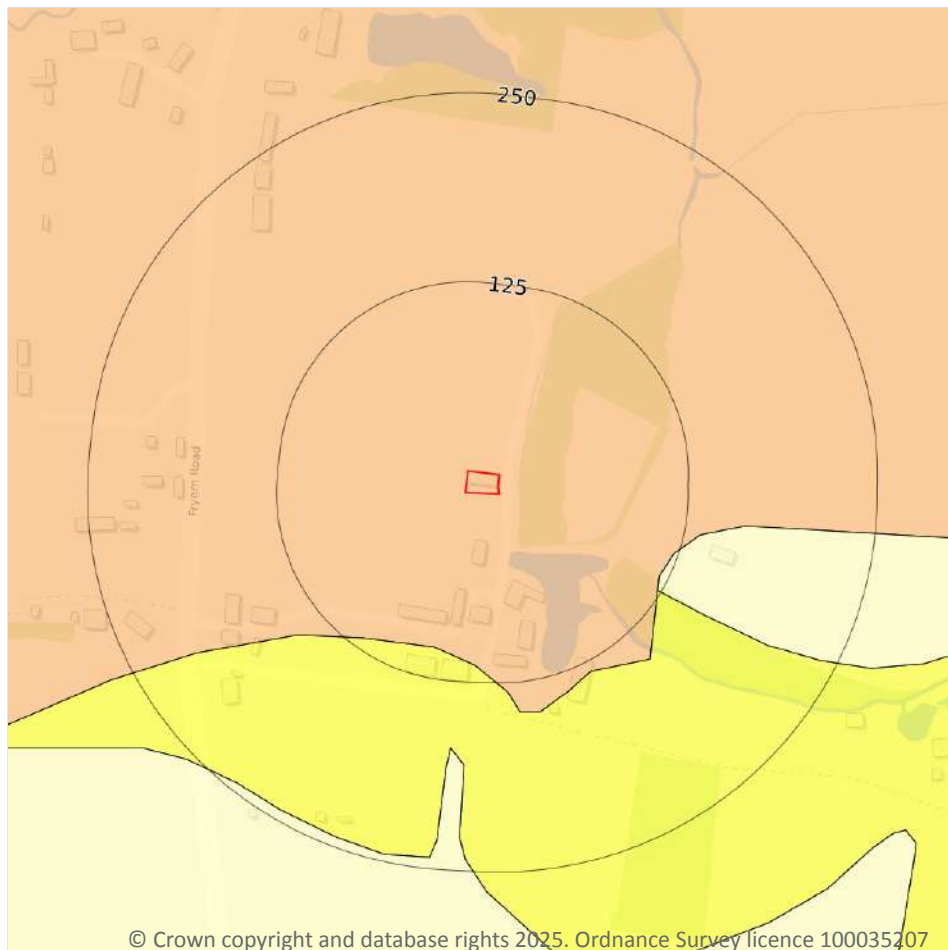
0

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

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



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

17.1 Shrink swell clays

Records within 50m

1

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

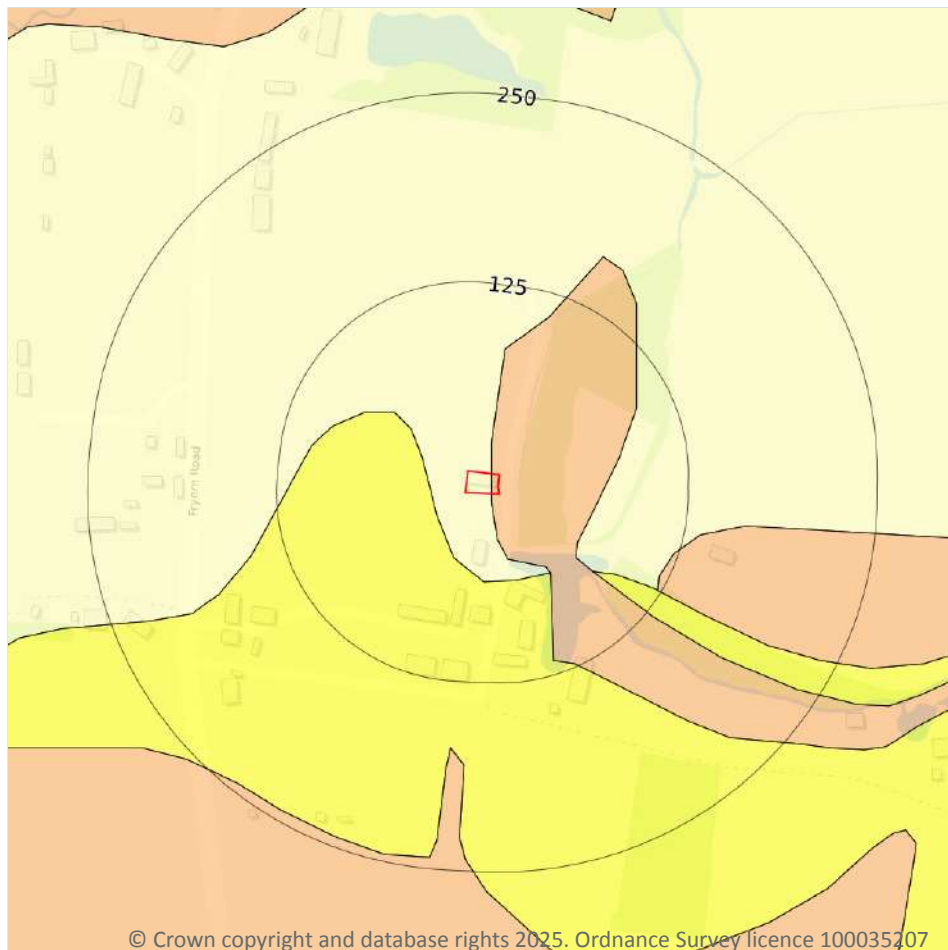
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 86 >](#)

Location	Hazard rating	Details
On site	Low	Ground conditions predominantly medium plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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

17.2 Running sands

Records within 50m

3

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

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

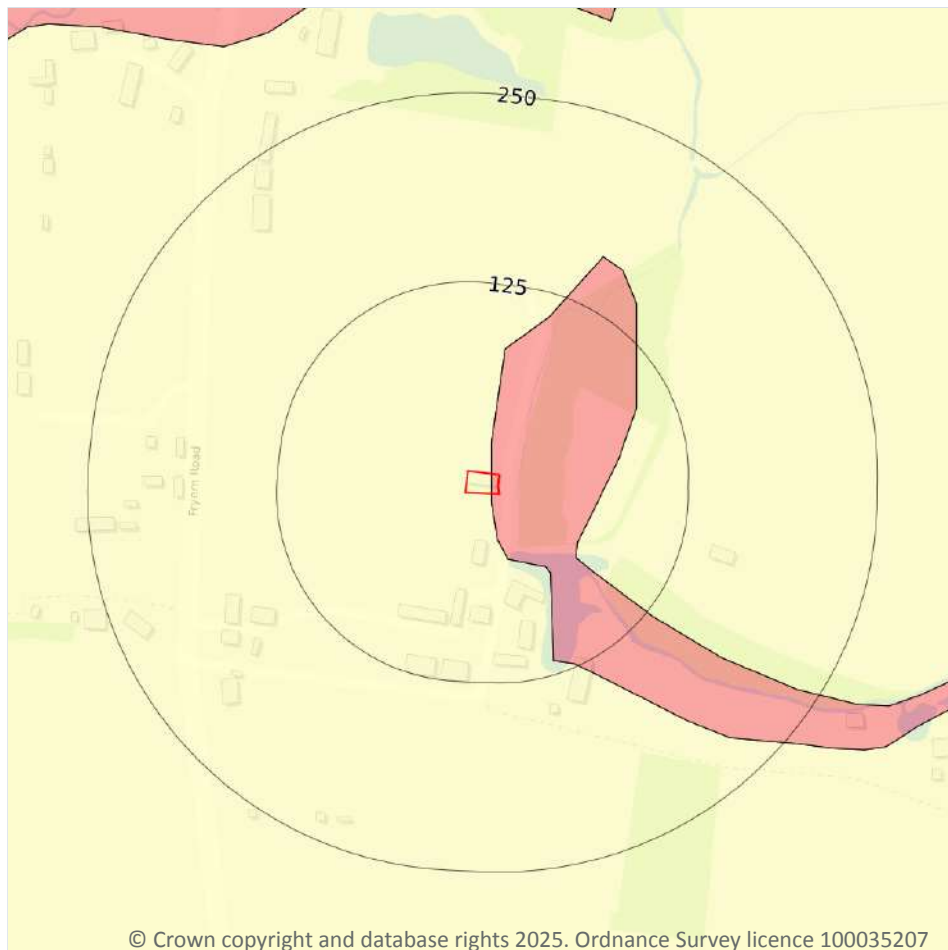
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Location	Hazard rating	Details
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
22m W	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



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

17.3 Compressible deposits

Records within 50m

2

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

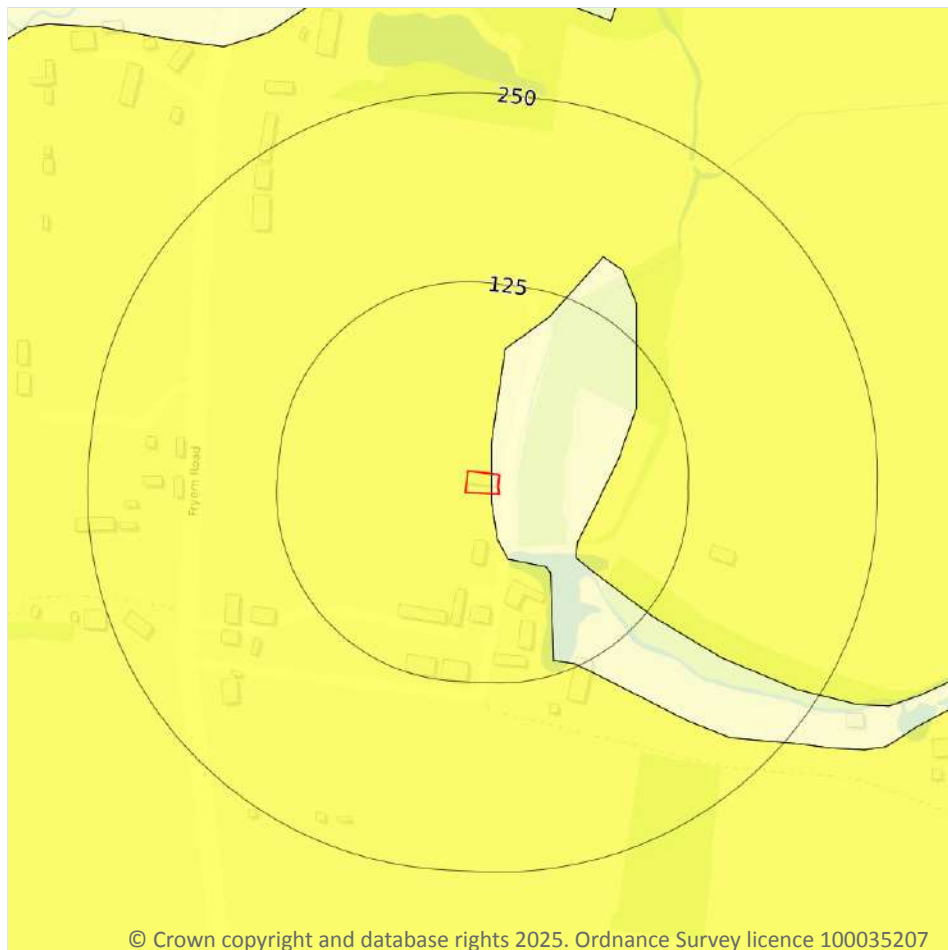
Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 89](#) >

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



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

17.4 Collapsible deposits

Records within 50m

2

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

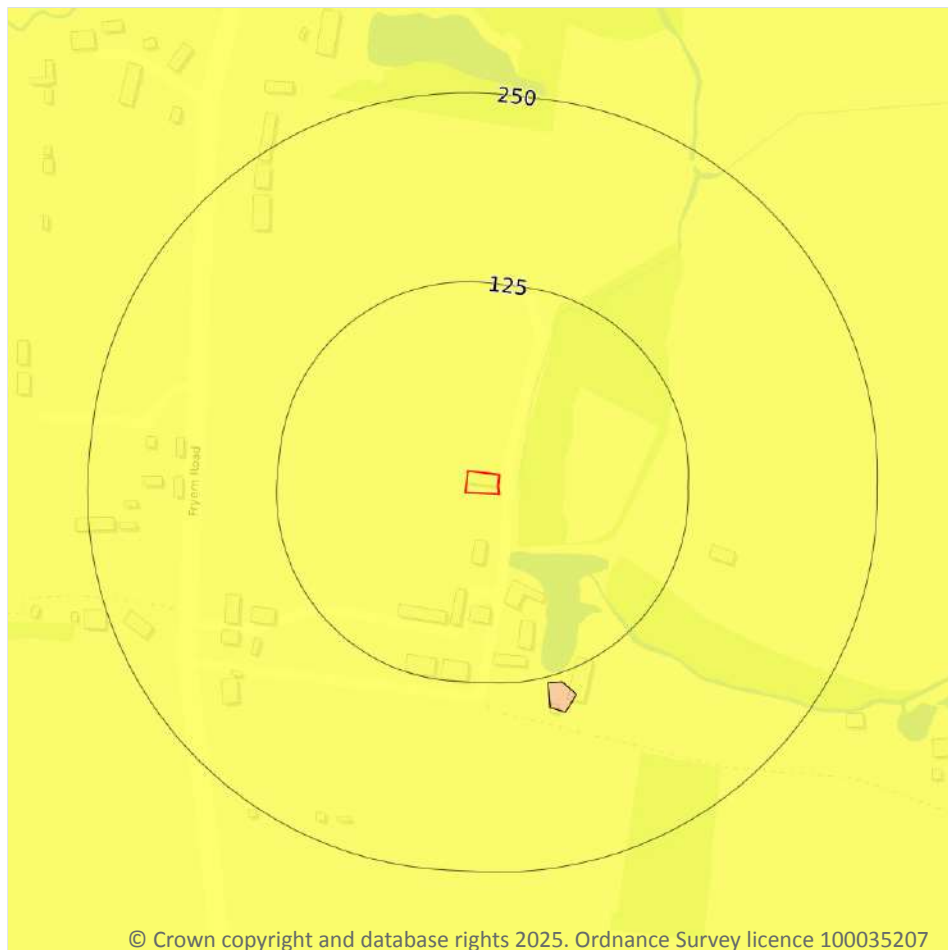
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 91](#) >

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
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.

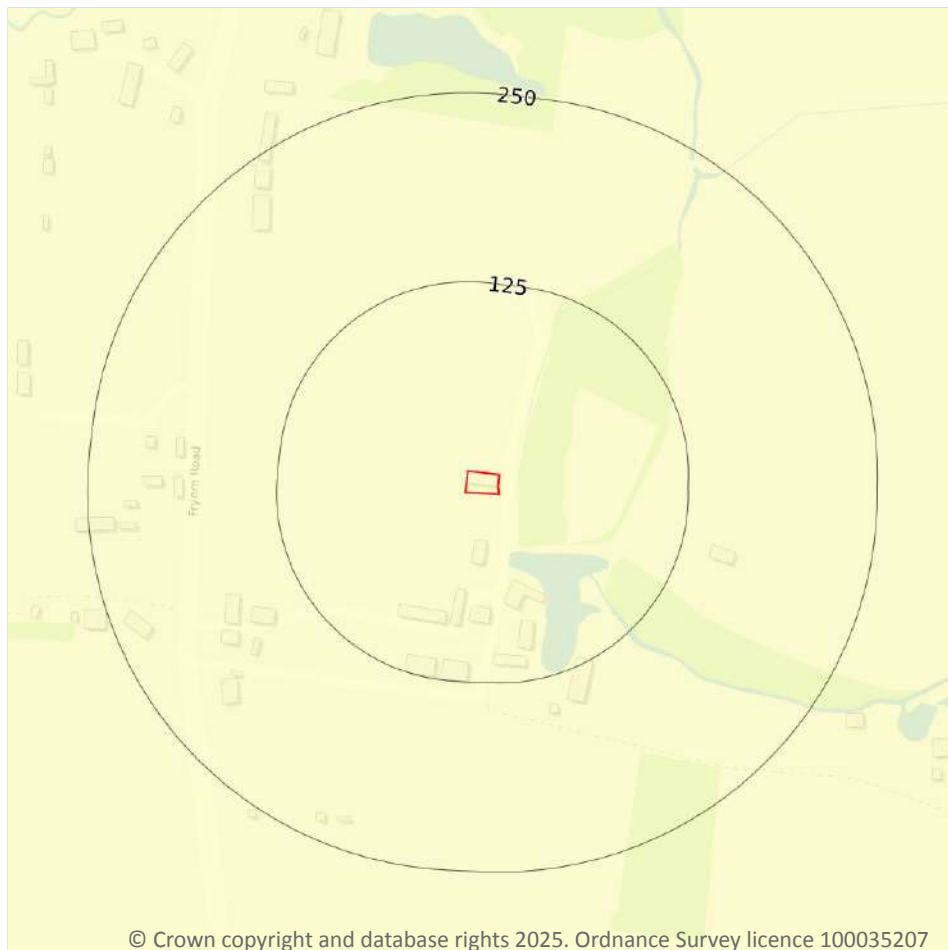
Features are displayed on the Natural ground subsidence - Landslides map on [page 92](#) >

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



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

17.6 Ground dissolution of soluble rocks

Records within 50m

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 93](#)

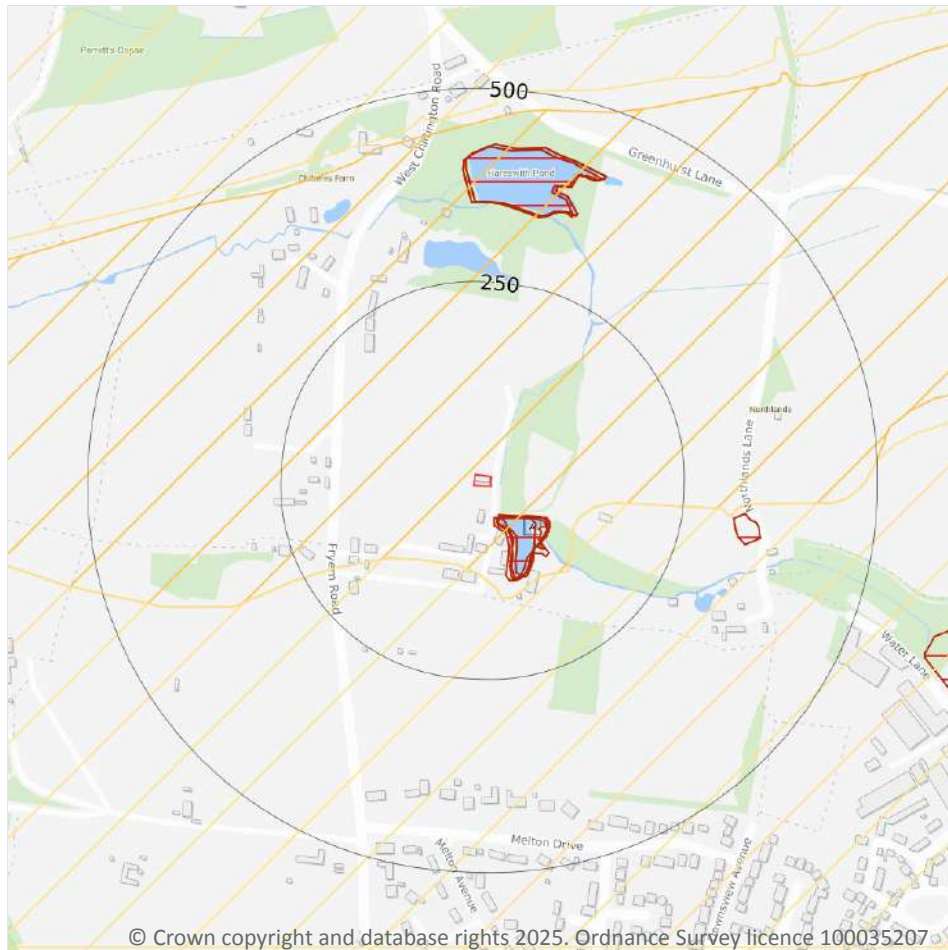
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



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

0

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

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m

6

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 95 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
A	39m S	Pond	1909	1:10560
A	39m S	Pond	1938	1:10560
A	41m S	Pond	1957	1:10560
A	41m S	Pond	1976	1:10000
A	43m SE	Pond	1876	1:10560
A	43m SE	Pond	1896	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m

0

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

This 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

3

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

Features are displayed on the Mining and ground workings map on [page 95 >](#)

ID	Location	Name	Commodity	Class	Likelihood
1	On site	Not available	Iron Ore	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
2	104m S	Not available	Sand	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
4	596m S	Not available	Sand	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site

0

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

This data is sourced from Johnson Poole and Bloomer.



18.8 The Coal Authority non-coal mining

Records within 500m**0**

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m**0**

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m**0**

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m**0**

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

This data is sourced from Groundsure.



18.12 Coal mining

Records on site	0
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Areas which could be affected by past, current or future coal mining.

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.

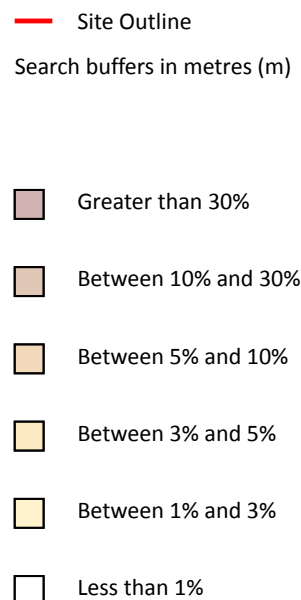
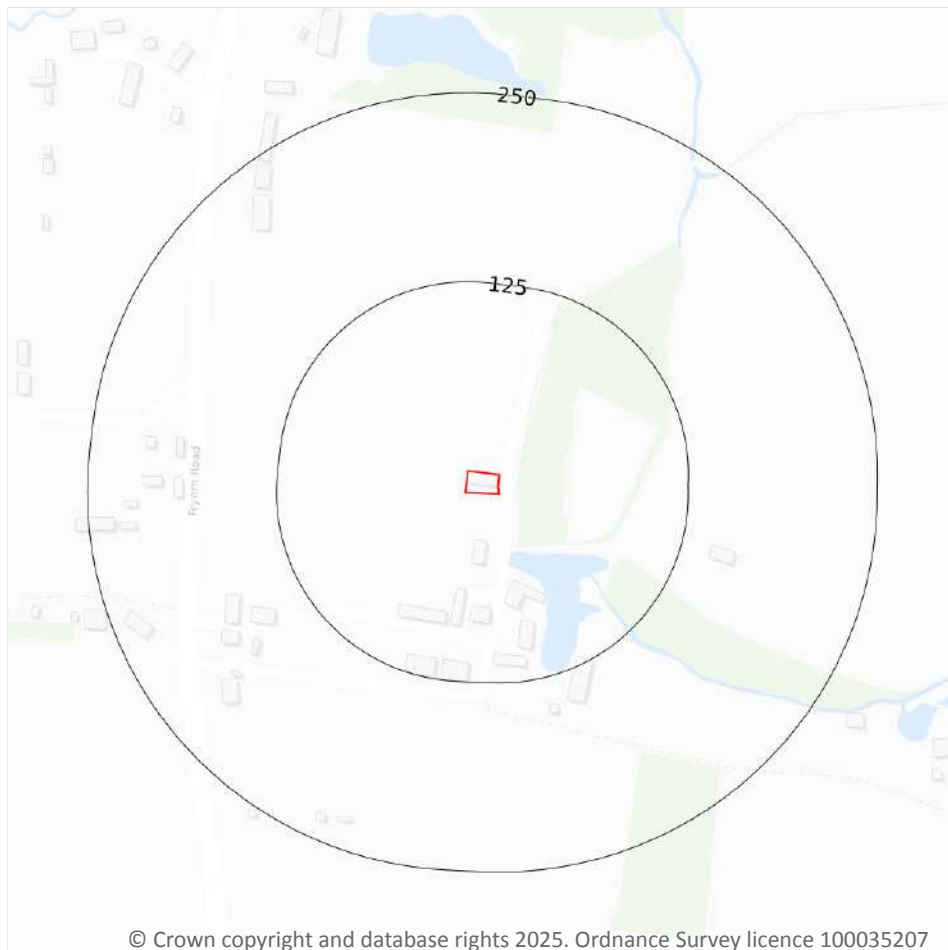
Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.



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 102](#) >

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

3

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	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	15 - 30 mg/kg
22m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

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.

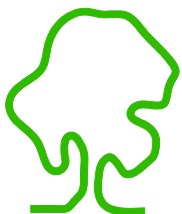
Data providers

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> ↗.

Terms and conditions

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