BEN JONES



RUSPER BARN, CAPEL ROAD, RUSPER, WEST SUSSEX, RH12 4PY

Preliminary Contamination Risk Assessment

February 2025

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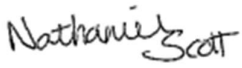
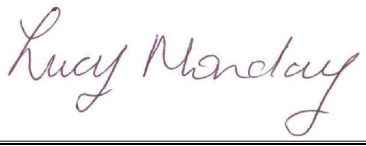
Environmental Assessment Services Ltd

REPORT DATA SHEET

Requirement	**Data**
Report Reference	787/CPPlanning/RusperBarn/PCRA
Date	February 2025
Client	Ben Jones
Report type	Preliminary Contamination Risk Assessment
Purpose	Pre-Commencement Condition 1 (a) of Planning Application DC/24/1070
Revisions	-
Prepared by	Nathaniel Scott BSc (Hons), MSc Signed 
Approved by	Lucy Monday BSc (Hons), ACIEEM Signed 

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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, 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 an agricultural barn set to the west of Capel Road, together with a surrounding area of grassland located approximately 750 m to the north of the village of Rusper, West Sussex. The site area is approximately 0.14 ha. The Ordnance Survey (OS) map reference for the site is TQ 20339 37806. The site elevation is approximately + 120 m OD.

2.2 It is proposed to convert the existing agricultural barn to provide a single residential dwelling. An area of hardstanding to the front of the existing barn is to be used for parking and access. The proposed dwelling will have a wraparound garden area, fenced off from the surrounding fields.

2.3 See Appendix A for existing and proposed site plans.

3. GEOLOGY & HYDROGEOLOGICAL CONSIDERATIONS

3.1 According to the British Geological Survey (available online), the site lies on Weald Clay Formation (Mudstone).

3.2 The Department for Environment, Food and Rural Affaires (Defra) online mapping (MAGIC) shows the site to lie on Unproductive Strata. The site does not lie within a groundwater Source Protection Zone (SPZ). The site is not deemed to be hydrogeologically sensitive.

3.3 According to the EA's online Flood map for planning, the site lies within Flood Zone 1 (low risk of flooding from rivers and/or the sea). The site does not lie within 500 m of a watercourse classified as a main river by the EA.

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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 below.

TABLE 4.1
SITE DEVELOPMENT HISTORY

Map date (Scale)	Features on site	Features within surrounding area (<250 m)
1871-1875 (1:2,500)	The site lies within a strip of land to the west of Capel Road. There is a pond located within the northwest corner of the site.	Highams Farm, including a number of buildings lies 75 m to the north of the site. There are a number of ponds within 250 m of the site.
1897 and 1898 (1:2,500)	The site is shown to form the northeast corner of a larger field to the west of Capel Road. The strip of separate land no longer shown. The pond remains within the northwest corner of the site.	Two buildings have been developed approximately 90 m and 125 m to the south of the site.
1911 (1:2,500)	No significant changes to the site.	One of the buildings to the south of the site has been identified as Yew Tree Cottage.
1919-1920 (1:10,560)	No significant changes to the site.	No significant changes to the surrounding area.
1961 (1:10,560)	A building has been developed within the southeastern corner of the site.	Highams Farm to the north has been further developed.
1974 (1:2,500)	The building previously identified within the southeastern corner is no longer present. An open sided barn is now shown spanning the southern boundary of the site. The pond in the northwest corner of the site is no longer shown to be present.	The road to the west of the site is identified as Cowix Road (now known as Capel Road). The surrounding area has been further developed including a row of three buildings within the land immediately north of the site.
1993 (1:2,500)	No significant changes to the site.	No significant changes to the surrounding area.

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2003 (1:1,250)	The barn spanning the southern boundary of the site is no longer present. The barn, as existing has been developed within the site.	The buildings on land immediately north of the site's northern boundary have been removed.

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 below.

TABLE 4.2
A SUMMARY OF RECENT PLANNING APPLICATIONS

Ref. Nos.	Description	Decision & Date
DC/14/0882	Proposed change of use from agricultural building to two dwellings (C3 Use class) – Prior Approval Development affects the setting of a Listed Building.	× 20/06/2014
DC/16/1678	Use as 2 C3 dwellinghouses and the carrying out of building operations reasonably necessary to convert the Barn from use as an agricultural building to C3 Residential Use following prior approval DC/14/0882.	× 19/12/2016
DC/19/1431	Part-retrospective application for the re-cladding and re-roofing of the existing agricultural storage building following removal of asbestos.	✓ 16/09/2019
DC/21/1832	Installation of windows and doors into an existing agricultural store and building.	× 17/05/2021
DC/23/1818	Change of use of existing agricultural storage building to 1No residential dwelling and regularisation of the Deemed Consent (DC/14/0882).	× 03/06/2024

Key: ✓ planning permission granted × planning permission refused *r* registered

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 and a summary of the relevant information provided in these photographs is given in Table 4.3 below.

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TABLE 4.3
A SUMMARY OF RECENT AERIAL PHOTOGRAPHS

Photo date	Features on site	Features adjacent to the site
04/09/1999	Land developed generally as existing with the barn located off centre to the west of the site, and the site access and area of hardstanding to the east of the barn.	The surrounding area comprises agricultural land (crop land to the west) together with a number of farm buildings and dwellings to the north and southeast.
28/08/2005	The area to the south of the barn appears to be clear of vegetation, with access to the adjacent crop field. The land to the north of the barn appears to form part of the adjacent field to the north.	Land to the east, opposite the site, is being used to store vehicles.
31/08/2012	Site appears more vegetated. Access through to the adjacent field (now pasture) still present along the southern site boundary.	Crop land to the west appears to now be pasture with sheep. Land to the east continues to be used to store vehicles.
08/05/2018	The barn roofing has been removed with the frame clearly visible. Site boundaries less clearly visible, possibly altered.	Land to the west continues to be pasture with sheep. Land to the east used to store vehicles with the size of the area used increasing.
24/04/2021	The barn roofing has been replaced. There is a single vehicle to the north of the site access on the eastern boundary.	A new access to the field to the west of the site is now clearly present to the south of the site. A large number of vehicles are now stored on land to the east of the site.

5. THE EXISTING SITE

5.1 The site was visited on 30 January 2025. Photographs of the site are provided in Appendix C.

5.2 The site is approximately 0.14 ha and comprises an agricultural-style barn. The site is situated within the northeastern corner of an existing arable field to the west of Capel Road. The site is divided from the adjacent arable field to the west and south via post and wire fencing. The site is accessed from the east via a gated entrance to the west of Capel Road with the site's eastern boundary comprising hedging.

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5.3 The surrounding area can be characterised by irregularly shaped arable fields with the surrounding land use being predominantly agricultural.

5.4 The barn is of concrete frame construction with timber clad elevations and a slate-tiled pitched roof. The flooring within the barn comprises compressed chalk throughout. The rain goods of the barn consist of a plastic material. The barn is currently used to store a small number of miscellaneous building supplies. No fuels or other fluids are currently stored within the building.

5.5 An area of hardstanding (comprising of road planings) which extends from the Capel Road forms the site's access and parking area. Rough grassland surrounds the barn. There are several piles of miscellaneous materials including wooden posts, offcuts and corrugated metal.

5.6 No evidence of the pond identified from historic mapping (circa 1870) was observed.

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 are 11 records of potentially contaminative land uses recorded from standard 1:10,000 and 1:10,560 scale historic mapping within 500 m of the site. These include several records for a smithy situated 465 m to the southeast of the site present from 1895-1968. Other records of potentially contaminative land uses include multiple tanks, the closest a water tank located 365 m north, and a graveyard 438 m south.

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

Records for historical garages from 1:1,250 and 1:2,500 scale historic maps within 500 m of the site include a single record from 1974-1993 situated 489 m to the southeast of the site.

6.1.2 *Waste and Landfill*

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

However, it is noted that land to the east appears to be used as a vehicle scrap yard. Contamination associated with such land uses may include heavy metals, petroleum hydrocarbons and fuel additives considered highly mobile. The proposed development site is divided from this land by Capel Road and the

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underlying geology (Weald Clay) is an Unproductive Strata. The development site is considered unlikely to be impacted by this land use.

6.1.3 *Current Industrial Land Use*

There are no current industrial land uses thought to be of significant contamination risk to the site.

There are no records of high-voltage underground electricity cables or high-pressure underground gas pipelines within 500 m of the site.

6.1.4 *Environmental Permits, Incidents and Registers*

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

There are two records of licensed discharges to controlled water within 500 m of the site. Both of these records are associated with Ghyll Manor Hotel and involve the release of treated effluent into a ditch tributary of Rusperhouse Gill.

6.1.5 *Hydrogeology, Hydrology and Flood Risk*

The site does not lie within superficial aquifer. The bedrock (Weald Clay) is an Unproductive Strata. This is of low groundwater vulnerability.

There are two groundwater abstractions within 2000 m of the site. The closest of these, identified as Kenward Farms is situated 967 m to the north of the site.

The site does not lie within a groundwater Source Protection Zone (SPZ).

The site lies within Flood Zone 1 (low risk of flooding from rivers and/or the sea).

The site does not lie within 20 m of a Main River (as identified by the EA).

6.1.6 *Environmental and Habitat Designations*

The site does not lie within 2000 m of any Sites of Special Scientific Interest (SSSI), Conserved Wetland sites (Ramsar), Special Areas of Conservation (SACs), Special Protection Areas (SPAs), National Nature Reserves (NNRs), or Local Nature Reserves (LNRs). The site lies within an SSSI Impact Risk Zone. All new development that requires a public water supply requires an HRA to assess the impacts of groundwater abstraction on Arun Valley SPA/SAC/Ramsar.

There are a total of 43 areas of designated ancient woodland within 2000 m of the site. The closest of these is an unknown parcel of woodland situated 178 m west of the site.

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The site lies 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 nitrate in water. The proposed development, from agricultural to residential use, is not considered likely to increase the risk of nitrate pollution.

There are three records of Priority Habitat within 250 m of the site. These are all for areas of deciduous woodland with the closest record lying 178 m to the west of the site.

6.1.7 *Natural Hazards Findings and Mining*

There is low-negligible risk rating for natural hazards (shrink-swell, running sand, compressible deposits, collapsible deposits, landslides, and soluble rocks) within 50 m of the site, as identified from BGS GeoSure Data.

There are no records of BritPits within 500 m. Records suggest that there is potential for non-coal mining (iron ore) which may have affected the site.

The site lies within an area in which it is estimated that less than 1% of properties are affected by radon. No radon protection measures are required in this case.

7. POTENTIAL SOURCES OF CONTAMINATION

7.1 The site lies within a rural area. Land use at the site has included agricultural use including a number of farm buildings, the first identified on site in 1961. The specific use of these buildings cannot be confirmed, however, the adjacent field in which the site lies has been used for both crops and grazing pasture (sheep). It can be reasonably assumed that the barn has been used in association with these land uses. The barns on site are likely to have been used to store crops and shelter sheep. The building could also have been used to store machinery and vehicles associated with the farm. More recently the barn has been used to store building materials.

7.2 It is understood that the existing building was clad in asbestos sheets, which were removed from the site ca. 2015, as evidenced by the site planning history and exposed framework shown in aerial imagery dated 08/05/2018. It is understood that these materials were removed from the site in 2015 by ICG South Limited (see Appendix E). It is deemed possible that earlier buildings on site may also have been constructed using asbestos containing materials. That we are aware, there are no records associated with the construction or demolition of these earlier buildings.

7.3 Potential contamination associated with historic land use is deemed to be low, as an isolated barn within a crop and pastureland. Contamination associated with active farmyards is deemed less likely to be present in this case. It is deemed possible that waste could have been burned on the site in the past, although there is no apparent evidence of this.

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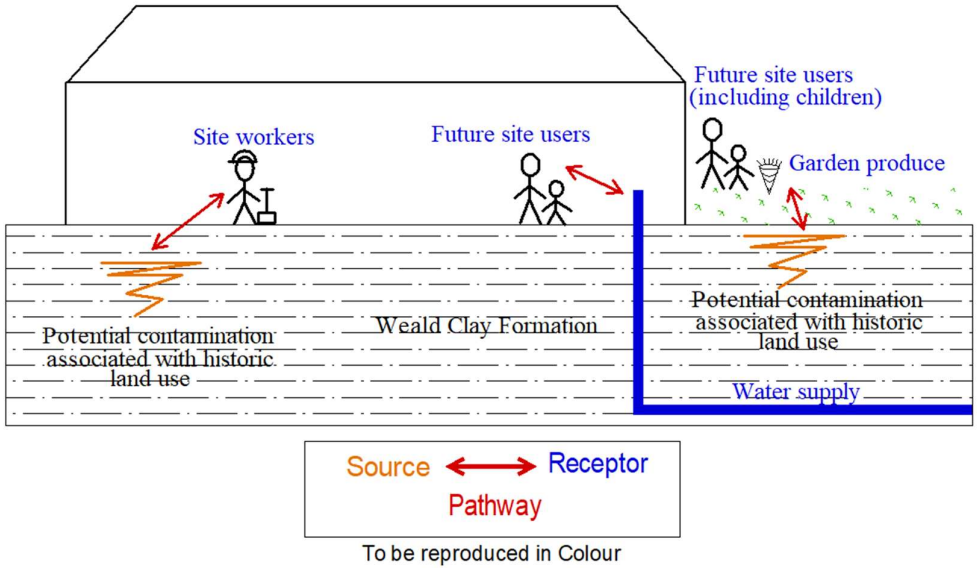
7.4 It is understood that a single soil sample from the site was sent to SAL for contamination testing in 2015. The certificate from this testing has been reviewed. No significant evidence of contamination was identified from this sample. See Appendix F.

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



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8.2 Source

8.2.1 From a review of available information, it is considered that contamination potential at the site is low, but cannot be completely ruled out. Should contamination of the site be present it is most likely to be limited to common contaminants associated with sites with a history of agricultural use. Potential soil contaminants may include Poly-Aromatic Hydrocarbons (PAHs) from the burning of waste, Total Petroleum Hydrocarbons (TPHs) from fuels, and possible heavy metals such as lead, which have been widely used in common applications from pipe work to paint. Asbestos containing building materials have also been present within the site in the past.

8.3 Receptors

8.3.1 It is proposed to redevelop the site for residential use, considered a more sensitive land use. In this case, potential *receptors* include site workers (during

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the development and future maintenance of the site), future site users (considered to include both adults and children), and building and building services (including underground water mains). The wider environment is not considered likely to be at significant risk in this case.

8.4 Source – Receptor Pathway

8.4.1 Site workers (notably demolition and ground workers) may come into contact with contaminated soil 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. See recommendations in section 10.

8.4.2 It is deemed possible, should contamination of the soils be present, that future site users and/or maintenance workers may come into contact with potentially contaminated soils, notably within the proposed soft landscaping / garden area. Exposure to contamination in this case may be via dermal contact, inhalation, and/or ingestion. Further investigation and/or protection measures should be implemented to confirm / remediate the associated risk. See recommendations in section 10 below.

8.4.3 Future site users may be exposed to tainted water supplied via underground mains to the site where any contamination with the 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 is free from contamination or appropriate pipework is used.

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**			
Minor contamination risk	No significant 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 ground water	Building & services	**?**

		Leeching of site contaminants into groundwater	Wider environment	×

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

9. CONCLUSIONS

9.1 The site lies on Weald Clay Formation (Mudstone), an Unproductive Strata. The site does not lie within a groundwater Source Protection Zone (SPZ) and is not considered to be hydrogeologically sensitive.

9.2 The site is not considered to be at significant risk of ground gas at this time. The site does not lie within 250 m of waste disposal landfill. The site is not within a radon-affected area.

9.3 The site has been subject to agricultural development since ca 1960 (as shown by historic mapping). It appears that, at least, three agricultural barns have been present within the site since this time, together with a pond within the northwest corner of the site. It is deemed most likely that the barns were used for the storage of crops and livestock, but it cannot be ruled out that the buildings were not used for some element of machinery or vehicle storage and/or maintenance. The pond is no longer present on site, and it is not clear if it was simply lost to siltation or if it was back filled. If it was backfilled, it is not known what material was used. It is also possible that the site may have been used to store and/or burn waste, a fairly typical activity around agricultural buildings.

9.4 Potential contamination in this case may include petroleum hydrocarbons, polyaromatic hydrocarbons and heavy metals, together with asbestos which was widely used in barn construction.

9.5 It is proposed to redevelop the site for a more sensitive land use. In this case, there is a potential risk to site workers, future site users and services (such as water mains) should contamination be present within the site.

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.

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9.7 In this case, contamination potential at the site appears minimal although, given the site's development history, there remains some uncertainty regarding the historic use of the site. The probability of impact for residential land use which is to include areas of soft landscaping is considered to be moderate but may be reduced subject to the findings of further intrusive site investigations and/or the implementation of protection and remediation measures. See section 10 below for recommendations.

10. RECOMMENDATIONS

10.1 Given the uncertainty of the site's historic land use, further intrusive site investigation may be used to confirm the condition of soils within the proposed soft landscaping / garden areas of the site and their suitability for residential use.

10.2 Further intrusive site investigation in the form of visual assessment, soil sampling, and analysis may be used in order to determine the extent of any potential contamination. Soil sampling and analysis should be targeted at areas most likely subject to contamination and in which future site users are likely to come into contact with any potential contamination, i.e. within the proposed soft landscaping areas and the route of any new water supply.

10.3 Further investigation should be targeted at the location of the historic pond, the storage area to the north of the existing hardstanding towards the northeast corner of the site, the area to the south of the barn and further locations around the barn to achieve a reasonable coverage of the site. The sample locations should ideally be agreed with the Council prior to any Phase 2 investigation.

10.4 Analysis should include for common contaminants including heavy metals and metalloids, TPH, PAH and asbestos. Should any significant contamination be identified, remediation will be required as part of the site's redevelopment for residential use.

10.5 The route of the proposed water connections should be confirmed to ensure the new connection route is free from contamination. In the absence of this, or should the presence of contamination be confirmed, barrier pipes should be used to protect the pipework and the water supply for future site users.

10.6 Should any unexpected contamination be identified during the site investigation and/or development phase, the Council should be notified and any necessary remediation work carried out as required.

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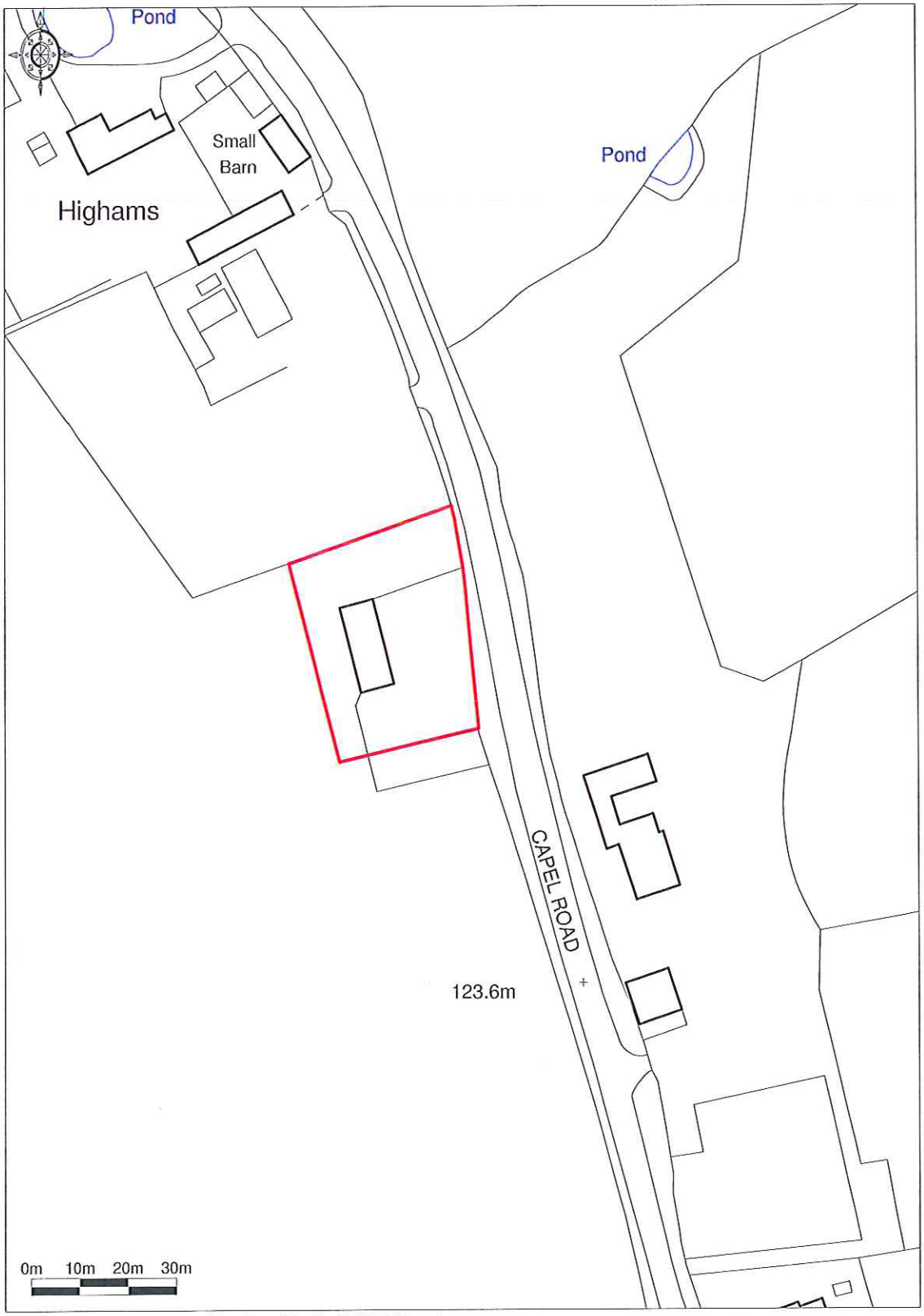
APPENDIX A: **Site Plans**

Location plan - Rusper Barn, Capel Road, RH12 4PY



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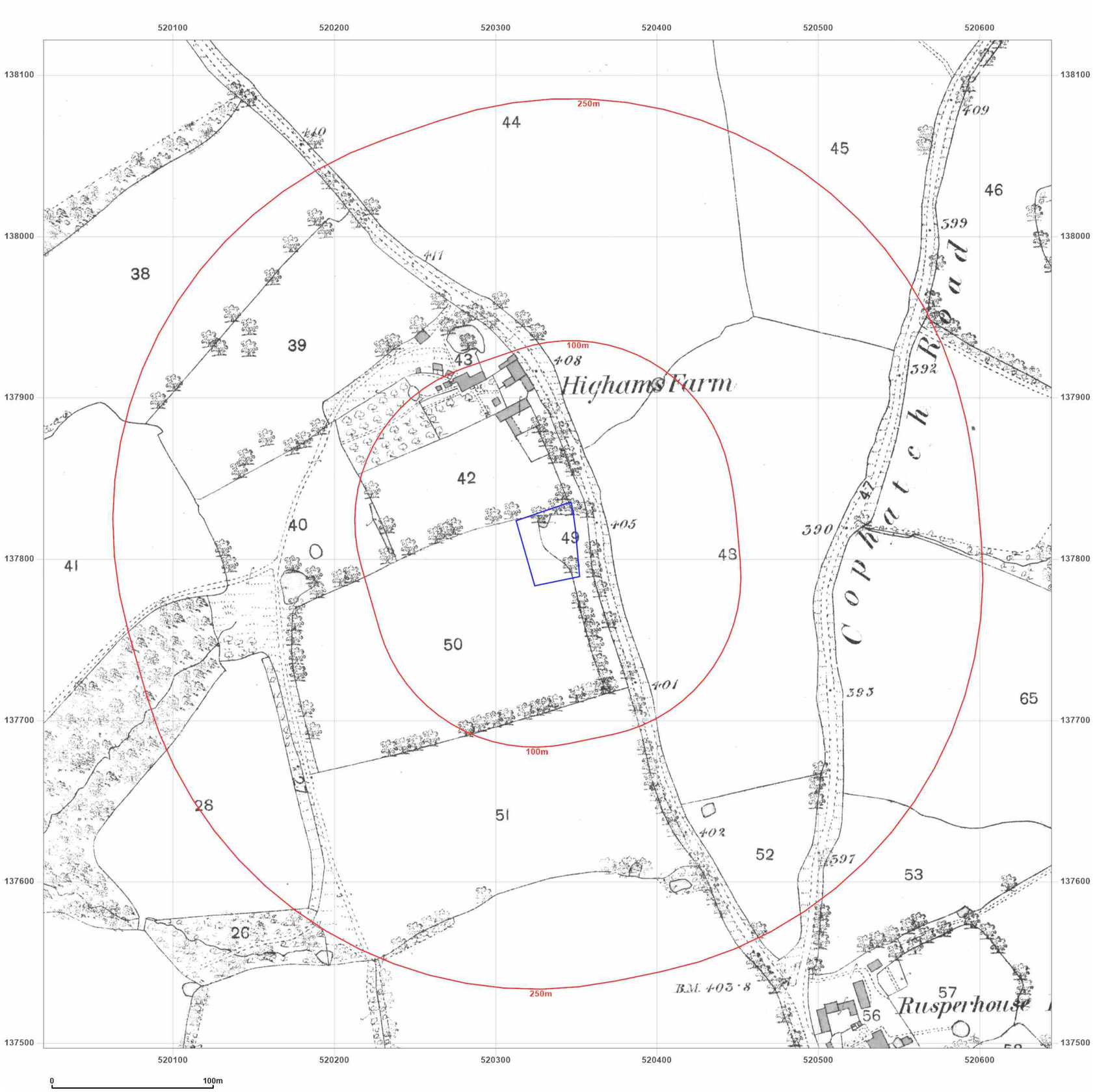
APPENDIX B: **Historic Maps**



Groundsure INSIGHTS

Site Details:

RUSPER BARN, CAPEL ROAD,
RUSPER, WEST SUSSEX, RH12
4PY

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Report Ref: HMD-47-WRT-MW8-LVW-PGN
Grid Ref: 520332, 137809

Map Name: County Series
Map date: **1871-1875**
Scale: 1:2,500
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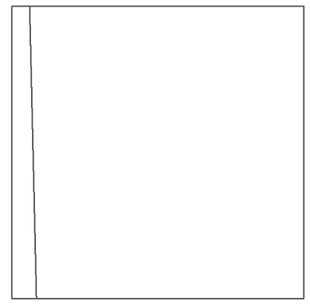

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Client Ref: 787
Report Ref: HMD-47-WRT-MW8-LVW-PGN
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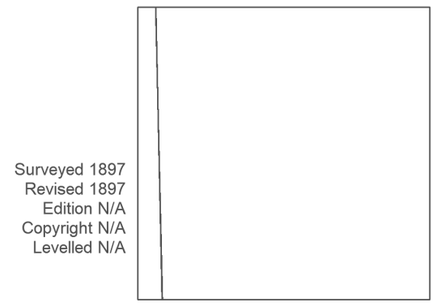

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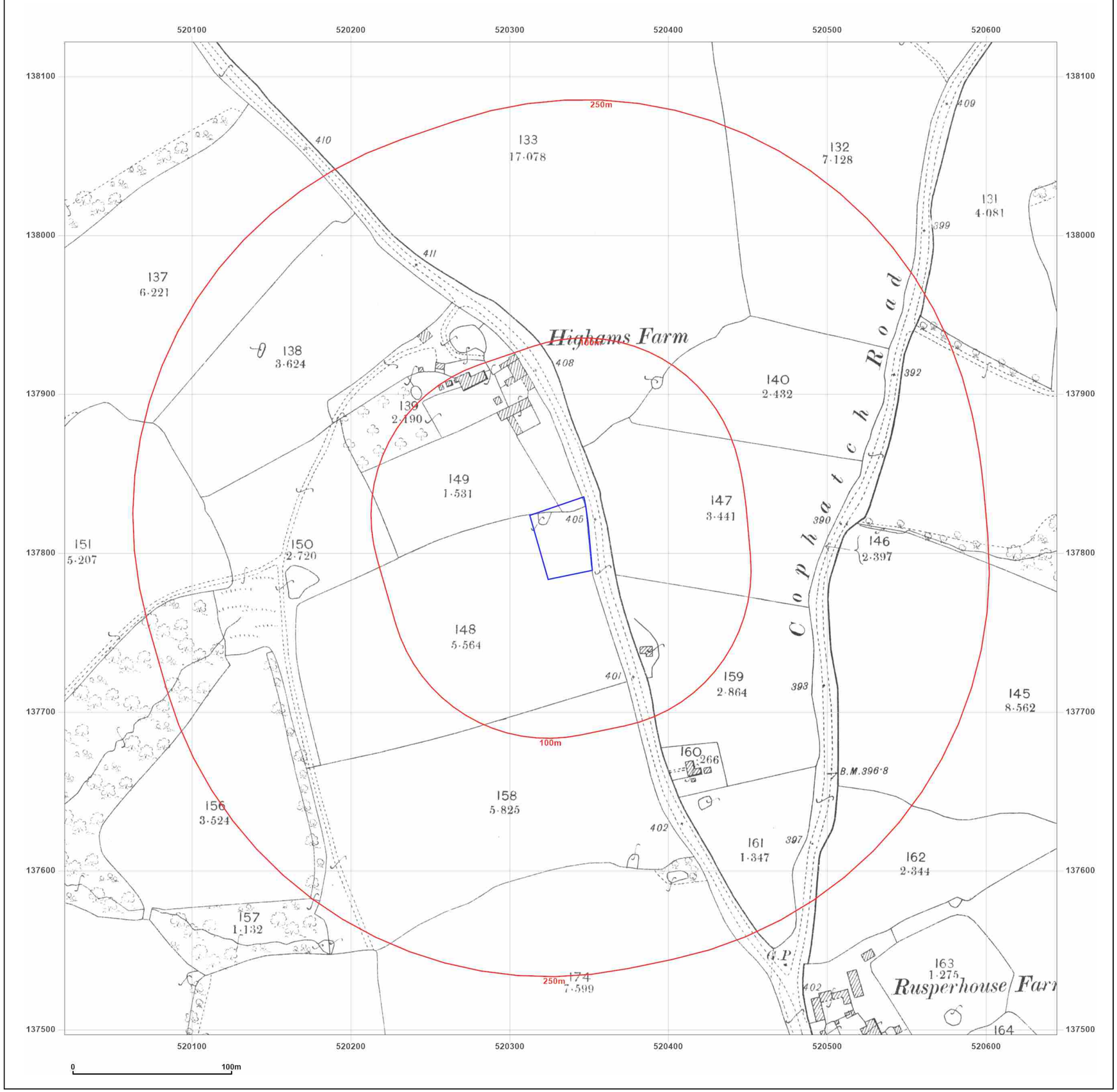

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Grid Ref: 520332, 137809

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Scale: 1:2,500
Printed at: 1:2,500

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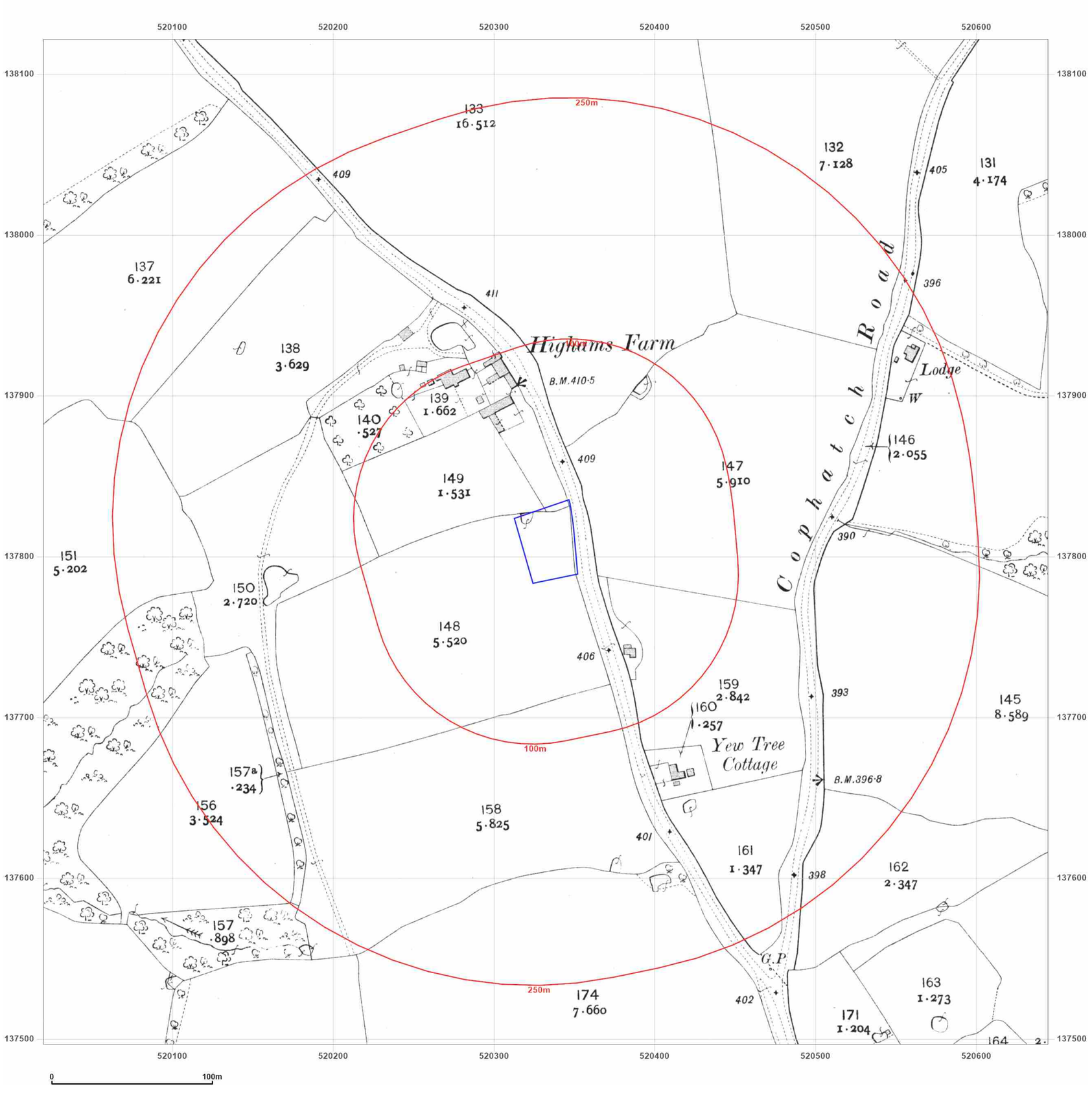

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Report Ref: HMD-47-WRT-MW8-LVW-PGN
Grid Ref: 520332, 137809

Map Name: County Series
Map date: **1911**
Scale: 1:2,500
Printed at: 1:2,500

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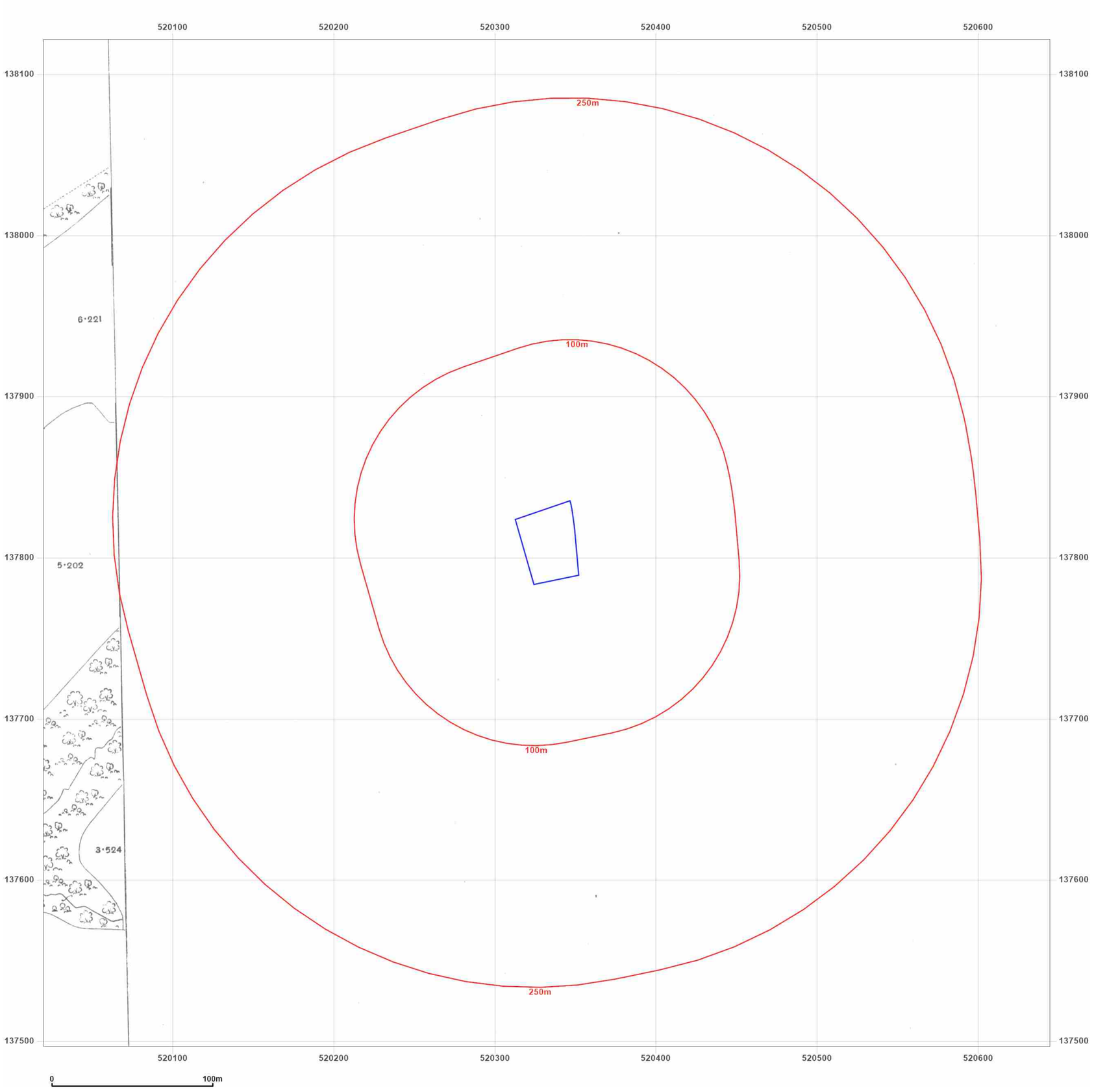
Production date: 27 January 2025

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



Groundsure INSIGHTS

Site Details:

RUSPER BARN, CAPEL ROAD,
RUSPER, WEST SUSSEX, RH12
4PY

Client Ref: 787
Report Ref: HMD-47-WRT-MW8-LVW-PGN
Grid Ref: 520332, 137809

Map Name: County Series
Map date: **1914-1915**
Scale: 1:2,500
Printed at: 1:2,500

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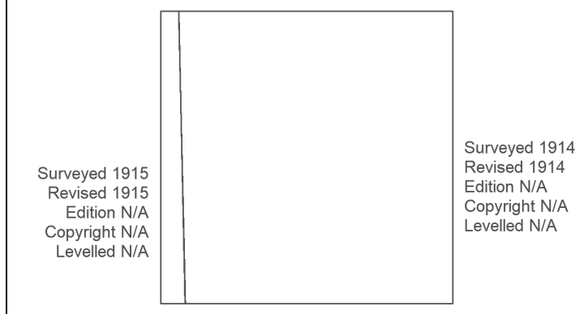

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Groundsure INSIGHTS

Site Details:

RUSPER BARN, CAPEL ROAD,
RUSPER, WEST SUSSEX, RH12
4PY

Client Ref: 787
Report Ref: HMD-47-WRT-MW8-LVW-PGN
Grid Ref: 520332, 137809

Map Name: National Grid

Map date: **1974**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1973
Revised 1973
Edition N/A
Copyright 1974
Levelled 1972

Surveyed 1973
Revised 1973
Edition N/A
Copyright 1974
Levelled 1972

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Groundsure INSIGHTS

Site Details:

RUSPER BARN, CAPEL ROAD,
RUSPER, WEST SUSSEX, RH12
4PY

Client Ref: 787
Report Ref: HMD-47-WRT-MW8-LVW-PGN
Grid Ref: 520332, 137809

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

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

Surveyed 1993
Revised N/A
Edition N/A
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Groundsure INSIGHTS

Site Details:

RUSPER BARN, CAPEL ROAD,
RUSPER, WEST SUSSEX, RH12
4PY

Client Ref: 787
Report Ref: HMD-47-WRT-MW8-LVW-PGN
Grid Ref: 520332, 137809

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

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2003

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Production date: 27 January 2025

Map legend available at:
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APPENDIX C: **Photographs**



Photograph 1:

Timber clad barn proposed for conversion to residential use.



Photograph 2:

Discarded items including fencing, metal and wood waste.

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APPENDIX D: **GroundSure EnviroInsight Report**

See separate file

APPENDIX E: **Asbestos removal record**

The Hazardous Waste Regulations 2005: Consignment Note

Environment Agency

PRODUCER'S/HOLDER'S/CONSIGNOR'S COPY (Delete as appropriate)

PART A Notification details

1 Consignment note code: 0QM322/1CG01

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):
CAPEL ROAD, RUSPER WEST SUSSEX, RH12 4PY

3 Premises code (where applicable): 0QM322

4 The waste will be taken to (name, address and postcode):
BIFFA WASTE SERVICES LTD CORMONGERS LANE, REDHILL SURREY RH1 4ER

5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile): ICG SOUTH LTD THE KNOLL BUSINESS CENTRE, OLD SHOREHAM RD, HOVE, EAST SUSSEX BN3 7GS

PART B Description of the waste

If continuation sheet used, tick here ☐

1 The process giving rise to the waste(s) was: REMOVAL

2 SIC for the process giving rise to the waste: 45.25/

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of waste	List of wastes (EWC code)(6 digits)	Quantity (kg)	The chemical/biological components in the waste and their concentrations are: Component	Concentration (% or mg/kg)	Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
CEMENT	170605	2000	CHRYSOTILE	20%	SOLID	H.P.7	1GYD

The information given below is to be completed for each EWC identified

EWC code	UN identification number(s)	Proper shipping name(s)	UN class(es)	Packing group(s)	Special handling requirements
170605	2590	CHRYSOTILE	9	PG3	MANUAL

PART C Carrier's certificate

(If more than one carrier is used, please attach schedule for subsequent carriers. If schedule of carriers is attached tick here. ☐)

I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements.

Where this note comprises part of a multiple collection the round number and collection number are:

/

1 Carrier name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):
ABAL WASTE LTD, THE CHALK PIT COLLEGE RD, EPSOM, SURREY, KT17 4JA

2 Carrier registration no./reason for exemption:
CBDU50816

3 Vehicle registration no. (or mode of transport, if not road):
LG12YGE

Signature

Date 05/10/2018 Time 1300

PART D Consignor's certificate

I certify that the information in A, B and C has been completed and is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

1 Consignor name: P Bell

On behalf of (name, address, postcode, telephone, e-mail, facsimile): ICG SOUTH LTD, THE KNOLL BUSINESS CENTRE OLD SHOREHAM RD, HOVE EAST SUSSEX BN3 7GS

Signature

Date 05/10/2018 Time 1300

PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)
170605	4340	A CC	D05

1 I received this waste at the address given in A4 on: Date 05/10/2018 Time 1420

2 Vehicle registration no. (or mode of transport if not road):
LT 12 YGE

3 Where waste is rejected please provide details:

I certify that waste permit/exempt waste operation number:
BU 8126 IY

authorises the management of the waste described in B at the address given in A4.

Where the consignment forms part of a multiple collection,

Name: C SLINEY

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

3641 ... LANDFILL
BIFFA WASTE SERVICES LTD
PATTERSON ... LANDFILL
CORMONGERS LANE
REDHILL SURREY RH1 4ER

Signature

APPENDIX F: **SAL Analysis Certificate (2015)**

Scientific Analysis Laboratories is a
limited company registered in England and
Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

3 Crittall Drive
Springwood Industrial
Estate
Braintree
Essex
CM7 2RT
Tel : 01376 560120
Fax : 01376 552923

Report Number: 511459-1

Date of Report: 01-Oct-2015

Customer: Southern Testing Laboratories
Keeble House
Stuart Way
East Grinstead
West Sussex
RH19 4QA

Customer Contact: Mr Timon Greenwood

Customer Job Reference: GL3459
Customer Purchase Order: GL3459_1 Timon
Customer Site Reference: Agricultural Bldg, Capel Rd (Rusper)
Date Job Received at SAL: 23-Sep-2015
Date Analysis Started: 24-Sep-2015
Date Analysis Completed: 01-Oct-2015

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with Section 25 of the SAL Quality Manual

1549

Report checked
and authorised by :
Mrs Claire Brown Crociquia
Customer Service Manager

Issued by :
Mrs Claire Brown Crociquia
Customer Service Manager

SAL Reference: 511459
Project Site: Agricultural Bldg, Capel Rd (Rusper)
Customer Reference: GL3459

Soil Analysed as Soil
STL Key Contamintion Suite

				SAL Reference	**511459 001**
				Customer Sample Reference	**TH1 @ 1.00m**
				Date Sampled	**21-SEP-2015**
				Type	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
Arsenic	T257	A40	2	mg/kg	**3**
Cadmium	T257	A40	0.1	mg/kg	<0.1
Chromium	T257	A40	0.5	mg/kg	**32**
Copper	T257	A40	2	mg/kg	**45**
Lead	T257	A40	2	mg/kg	**27**
Mercury	T245	A40	1.0	mg/kg	<1.0
Nickel	T257	A40	0.5	mg/kg	**28**
Selenium	T257	A40	3	mg/kg	<3
Zinc	T257	A40	2	mg/kg	**76**
Asbestos ID	T27	A40			Asbestos not detected
Chromium VI	T6	A40	1	mg/kg	<1
Fraction Organic Carbon - F(oc)	T21	A40	1	%	<1
pH	T7	A40			**7.4**
Soil Organic Matter	T287	A40	0.1	%	**0.5**
(Water Soluble) SO4-- expressed as SO4	T242	A40	0.01	g/l	**0.12**
Sulphide	T4	A40	10	mg/kg	<10
Cyanide(Total)	T4	AR	1	mg/kg	<1
Phenols(Mono)	T221	AR	1.0	mg/kg	<1.0
TPH (C6-C10)	T54	AR	0.010	mg/kg	<0.010
TPH (C10-C40)	T219	AR	10	mg/kg	<10
Moisture @ 105 C	T162	AR	0.1	%	**22**
Retained on 2mm	T2	A40	0.1	%	<0.1

SAL Reference: 511459
Project Site: Agricultural Bldg, Capel Rd (Rusper)
Customer Reference: GL3459

Soil Analysed as Soil
Total and Speciated USEPA16 PAH (SE) (MCERTS)

				SAL Reference	**511459 001**
				Customer Sample Reference	**TH1 @ 1.00m**
				Date Sampled	**21-SEP-2015**
				Type	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
Naphthalene	T16	AR	0.1	mg/kg	<0.1
Acenaphthylene	T16	AR	0.1	mg/kg	<0.1
Acenaphthene	T16	AR	0.1	mg/kg	<0.1
Fluorene	T16	AR	0.1	mg/kg	<0.1
Phenanthrene	T16	AR	0.1	mg/kg	<0.1
Anthracene	T16	AR	0.1	mg/kg	<0.1
Fluoranthene	T16	AR	0.1	mg/kg	<0.1
Pyrene	T16	AR	0.1	mg/kg	<0.1
Benzo(a)Anthracene	T16	AR	0.1	mg/kg	<0.1
Chrysene	T16	AR	0.1	mg/kg	<0.1
Benzo(b)fluoranthene	T16	AR	0.1	mg/kg	<0.1
Benzo(k)fluoranthene	T16	AR	0.1	mg/kg	<0.1
Benzo(a)Pyrene	T16	AR	0.1	mg/kg	<0.1
Indeno(123-cd)Pyrene	T16	AR	0.1	mg/kg	<0.1
Dibenzo(ah)Anthracene	T16	AR	0.1	mg/kg	<0.1
Benzo(ghi)Perylene	T16	AR	0.1	mg/kg	<0.1
PAH(total)	T16	AR	0.1	mg/kg	<0.1

Index to symbols used in 511459-1

Value	Description
AR	As Received
A40	Assisted dried < 40C
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos subcontracted to REC Limited
Retained on 2mm is removed before analysis
Reported results on as received samples are corrected to a 105 degree centigrade dry weight basis except TPH c6-c10

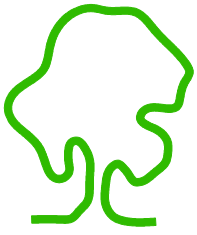
Method Index

Value	Description
T4	Colorimetry
T257	ICP/OES (SIM) (Aqua Regia Extraction)
T21	OX/IR
T219	GC/FID (SE)
T242	2:1 Extraction/ICP/OES (TRL 447 T1)
T2	Grav
T245	ICP/OES(Aqua Regia Extraction)
T7	Probe
T162	Grav (1 Dec) (105 C)
T6	ICP/OES
T16	GC/MS
T27	PLM
T221	Colorimetry (CE)
T54	GC/MS (Headspace)
T287	Calc TOC/0.58

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Arsenic	T257	A40	2	mg/kg	M	001
Cadmium	T257	A40	0.1	mg/kg	M	001
Chromium	T257	A40	0.5	mg/kg	M	001
Copper	T257	A40	2	mg/kg	M	001
Lead	T257	A40	2	mg/kg	M	001
Mercury	T245	A40	1.0	mg/kg	U	001
Nickel	T257	A40	0.5	mg/kg	M	001
Selenium	T257	A40	3	mg/kg	U	001
Zinc	T257	A40	2	mg/kg	M	001
Asbestos ID	T27	A40			SU	001
Chromium VI	T6	A40	1	mg/kg	N	001
Fraction Organic Carbon - F(oc)	T21	A40	1	%	N	001
pH	T7	A40			M	001
Soil Organic Matter	T287	A40	0.1	%	N	001
(Water Soluble) SO4-- expressed as SO4	T242	A40	0.01	g/l	M	001
Sulphide	T4	A40	10	mg/kg	N	001
Cyanide(Total)	T4	AR	1	mg/kg	M	001
Phenols(Mono)	T221	AR	1.0	mg/kg	M	001
TPH (C6-C10)	T54	AR	0.010	mg/kg	N	001
TPH (C10-C40)	T219	AR	10	mg/kg	M	001
Moisture @ 105 C	T162	AR	0.1	%	N	001
Retained on 2mm	T2	A40	0.1	%	N	001
Naphthalene	T16	AR	0.1	mg/kg	U	001
Acenaphthylene	T16	AR	0.1	mg/kg	U	001
Acenaphthene	T16	AR	0.1	mg/kg	M	001
Fluorene	T16	AR	0.1	mg/kg	M	001
Phenanthrene	T16	AR	0.1	mg/kg	U	001
Anthracene	T16	AR	0.1	mg/kg	M	001
Fluoranthene	T16	AR	0.1	mg/kg	N	001

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Pyrene	T16	AR	0.1	mg/kg	N	001
Benzo(a)Anthracene	T16	AR	0.1	mg/kg	M	001
Chrysene	T16	AR	0.1	mg/kg	M	001
Benzo(b)fluoranthene	T16	AR	0.1	mg/kg	U	001
Benzo(k)fluoranthene	T16	AR	0.1	mg/kg	N	001
Benzo(a)Pyrene	T16	AR	0.1	mg/kg	M	001
Indeno(123-cd)Pyrene	T16	AR	0.1	mg/kg	M	001
Dibenzo(ah)Anthracene	T16	AR	0.1	mg/kg	M	001
Benzo(ghi)Perylene	T16	AR	0.1	mg/kg	M	001
PAH(total)	T16	AR	0.1	mg/kg	U	001



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