IAN FARMER ASSOCIATES

Geotechnical & Environmental Specialists

CLARKE + WHALEN ARCHITECTS LTD

WHITE COTTAGE,
PARK LANE, KIMPTON, HITCHIN, SG4 8EG

REPORT ON PRELIMINARY INVESTIGATION

Contract: 52688

Date: January 2018

Ian Farmer Associates (1998) Limited
Unit 1A, Lower Luton Road,
Harpenden, Herts AL5 5BZ
Tel: 01582 460018
Fax: 01582 469287

PRELIMINARY INVESTIGATION REPORT

carried out at

WHITE COTTAGE, PARK LANE,

KIMPTON, HITCHIN, SG4 8EG

Prepared for

CLARKE + WHALEN ARCHITECTS LTD
28-30 Coldharbour Lane
Harpenden
AL5 4UN

Contract: 52688

Date: January 2018

Ian Farmer Associates (1998) Limited
Unit 1 Batford Mill, Lower Luton Road, Harpenden, Hertfordshire AL5 5BZ
Telephone: 01582 460 018
Email: harpenden@ianfarmer.co.uk

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EXECUTIVE SUMMARY

On the instructions of Clarke + Whalen Architects Ltd, a Preliminary Investigation in the form of a desk study and site reconnaissance has been carried out in order to assess the potential hazards on and adjacent to the site and prepare a risk assessment for further consideration.

The site is situated on the eastern side of Park Lane, approximately 180m to the north of Kimpton High Street and approximately 5km southeast of Luton Airport, and may be located by Grid Reference TL 174 185.

Published geological and hydrogeological records indicate the site to be directly underlain by a principal aquifer relating to the highly permeable bedrock of the Lewes Nodular Chalk Formation and Seaford Chalk Formation (undifferentiated). A thin band of the Chalk Rock Member outcrops in close proximity to the south of the site.

The research identified limited evidence of potential hazards associated with the underlying ground conditions, either natural or man-made. However, it is recommended that further work be carried out to confirm the findings of the research, and to establish the engineering parameters of the underlying stratum to facilitate foundation design.

Site reconnaissance was undertaken on the 8 January 2018, at which time the site was occupied by a single residential property situated in the central eastern area, surrounded by grass.

A review of available historical maps revealed that from the earliest map, dated 1881, the site was undeveloped except for a small rectangular structure in the north eastern corner, which was no longer present by c.1898, with a footpath leading off-site to the northeast. Trees were recorded in the north western corner of the site by c.1924 and by c.1973, the site had been developed to its current form comprising The White House and associated outbuilding.

The immediate surrounding area was historically predominately rural, comprising agricultural fields, woodland, allotment gardens and small areas of development. The developed area of Kimpton was shown from 100m to the south of the site, comprising housing, schools and commercial land uses, including a brewery some 150m to the southeast of the site (until c.1924). A grave yard was also recorded some 200m to the east of the site from this time. Kimpton expanded over time and by c.1973 to 1979, residential properties had been developed in the immediate vicinity of the site. From this time, an electricity substation was recorded approximately 75m to the west of the site, a garage some 175m to the southwest and a works approximately 200m to the west.

The research has identified the following potential sources of contamination which may form part of a pollutant linkage:

- Made Ground resulting from previous development on and in the immediate vicinity of the site.
- Asbestos from structures on the site.
- Ground gas associated with any Made Ground and/or organic contamination.

Evidence of potential sources of contamination on or which may impact on the site has been identified by the research, with plausible pathways to the likely receptors, and therefore potential pollutant linkages have been suggested. Furthermore, the research identified evidence of potential hazards associated with underlying ground conditions, either natural or man-made, and therefore it is recommended that further work be carried out to confirm the presence, nature or extent of those hazards anticipated to impact on the site.

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1.0 INTRODUCTION

1.1 General

1.1.1 On the instructions of Clarke + Whalen Architects Ltd, a Preliminary Investigation in the form of a desk study and site reconnaissance has been carried out in order to assess the potential hazards on and adjacent to the site and prepare a risk assessment for further consideration.

1.1.2 It is understood that it is proposed to develop the site for three residential dwellings. A plan of the proposed development is provided in Appendix 1, Figure A1.3.

1.1.3 This report has been prepared for the sole use of the Client for the purpose described and no extended duty of care to any third party is implied or offered. Third parties using any information contained within this report do so at their own risk.

1.1.4 It is recommended that a copy of this report be submitted to the relevant authorities to enable them to carry out their own site assessment and provide any comments.

1.1.5 The comments given in this report and the opinions expressed herein are based on the information obtained from the desk study and site reconnaissance. No intrusive investigation has been carried out to confirm the actual ground or environmental conditions.

1.1.6 Any risks identified in this report are perceived risks based on information reviewed. Actual risks can only be assessed following a physical investigation of the site.

1.1.7 This report has been based, in part, on information supplied by others. The report has been prepared on the basis of that information being accurate.

1.1.8 The conclusions presented in this report are based on the guidance available at the time of preparation of the report. No liability can be accepted for the retrospective effects of any changes or amendments to legislation or guidance.

1.1.9 This Preliminary Investigation has been conducted in general accordance with CLR 3, ref. 8.1, CLR 11, ref 8.2, BS 10175, ref 8.3, and GPLC 1, ref 8.4.

2.0 SITE

2.1 Site Location

2.1.1 The site is situated on the eastern side of Park Lane, approximately 180m to the north of Kimpton High Street and approximately 5km southeast of Luton Airport, and may be located by Grid Reference TL 174 185. Site location plans and an aerial photograph are included in Appendix 1, Figures A1.1 and A1.2.

2.1.2 The site is situated at an approximate altitude of 102mAOD.

2.2 Site Walkover and Description

2.2.1 A walkover survey of the site was conducted on the 8 January 2018. The walkover was carried out in general accordance with CLR 2, ref. 8.5.

2.2.2 The site is roughly rectangular in shape and occupies an approximate area of 0.24 Hectares.

2.2.3 At the time of the walkover survey, the site was occupied by a single residential property situated in the central eastern area of the site. The ground surface of the site outside of the structure footprint comprised grass, and there were no springs, ponds, or other watercourses observed on or near to the site.

2.2.4 The site was essentially level, and there was no evidence of any ground movements or damage to structures possibly related to adverse ground conditions.

2.2.5 There were no significant differences between the conditions observed on site and the aerial photograph.

2.2.6 Several mature trees and other vegetation was present adjacent to the site boundaries, and several younger trees and vegetation was present in close proximity to the structure occupying the site.

2.2.7 Evidence of services were inferred from the presence of a residential dwelling and a lamp post on the site.

2.2.8 There was no evidence of any sources of contamination observed on the site at the time of the walkover.

2.2.9 Photographs from the walkover survey are included within Appendix 2, Figure A2.1.

2.3 Historical Maps

2.3.1 A review of the history of the site has been conducted based on readily available historical maps. Details of the findings are provided in the table below. All maps are provided in Appendix 4.

Map, Date and Scale	Site Description	Regional Setting
Hertfordshire 1881 1:2500	The site is predominantly within an agricultural field, although a small rectangular structure is present in the north eastern corner with a footpath leading off-site to the northeast.	The surrounding area is predominantly rural, with open fields immediately to the northeast, south and southwest of the site, land with trees immediately to the north, allotment gardens immediately to the east and southeast, and Clarkshill Wood some 50m to the west and northwest. The developed area of Kimpton is shown from 100m to the south of the site, which comprises housing, schools and commercial land uses, including a brewery some 150m to the southeast of the site. A grave yard is recorded some 200m to the east of the site.
Hertfordshire 1884 1:10560	No significant changes.	No significant changes. The wider surrounding area visible from this scale map also predominantly comprises agricultural fields, wooded areas and small developed areas.
Hertfordshire 1885 1:10560	No data available.	No data available.
Hertfordshire 1898 1:2500	The structure in the northeast of the site is no longer shown and the site appears completely vacant.	An unlabelled structure has been constructed some 50m to the south of the site.
Hertfordshire 1899 1:10560	No significant changes.	No significant changes.
Bedfordshire 1901 1:10560	No data available.	Limited data available.
Hertfordshire 1924 1:2500	The site remains vacant except for some trees in the north western corner.	Sporadic residential development expanding the area of Kimpton has taken place to the southwest of the site. The brewery to the southeast of the site appears to have been replaced by the village hall.
Hertfordshire/ Bedfordshire 1925 1:10560	No significant changes.	No significant changes.
Bedfordshire 1947 1:10560	No data available.	Limited data available.

Map, Date and Scale	Site Description	Regional Setting
Historical Aerial Photograph 1949 1:10560	No significant changes.	No significant changes.
Hertfordshire 1950 1:10560	No significant changes.	No significant changes.
Ordnance Survey 1960 1:10000	No significant changes.	No significant changes.
Ordnance Survey 1973 1:2500	The site has been developed to its current form comprising The White House and associated outbuilding.	Similar residential plots, identified as Pheasants and The Bungalow have been developed immediately to the south of the site. Further high density housing has been constructed immediately beyond these plots to the south and west. An electricity substation is recorded approximately 75m to the west of the site and a garage some 175m to the southwest. A works is also recorded approximately 200m to the west of the site.
Ordnance Survey 1975 1:10000	No significant changes.	Development of residential properties has begun within the former allotment gardens to the east and southeast of the site.
Additional SIMs 1979 1:2500	No significant changes.	The former allotment gardens to the east and southeast of the site has been entirely redeveloped for housing.
Additional SIMs 1992 1:2500	No significant changes.	No significant changes.
Large-Scale National Grid 1993 1:2500	No significant changes.	No significant changes.
Large-Scale National Grid 1993 1:2500	No significant changes.	No significant changes.
Large-Scale National Grid 1995 1:2500	No significant changes.	Tennis courts have been constructed to the northeast of the site and further infill residential development has taken

Map, Date and Scale	Site Description	Regional Setting
10K Raster 1999 1:10000	No significant changes.	No significant changes.
Historical Aerial Photograph 1999	No significant changes.	No significant changes.
10K Raster 2006 1:10000	No significant changes.	No significant changes.
VectorMap Local 2017 1:100000	No significant changes.	No significant changes.

2.4 Summary

2.4.1 From the earliest available map, dated 1881, the site was undeveloped except for a small rectangular structure in the north eastern corner, which was no longer present by c.1898, with a footpath leading off-site to the northeast. Trees were recorded in the north western corner of the site by c.1924 and by c.1973, the site had been developed to its current form comprising The White House and associated outbuilding.

2.4.2 The immediately surrounding area was historically predominately rural, comprising agricultural fields, woodland, allotment gardens and small areas of development. The developed area of Kimpton was shown from 100m to the south of the site, comprising housing, schools and commercial land uses, including a brewery some 150m to the southeast of the site (until c.1924). A grave yard was also recorded some 200m to the east of the site from this time. Kimpton expanded over time and by c.1973 to 1979, residential properties had been developed in the immediate vicinity of the site. From this time, an electricity substation was recorded approximately 75m to the west of the site, a garage some 175m to the southwest and a works approximately 200m to the west.

3.0 SITE SETTING

3.1 Geological Setting

3.1.1 Details of the geology underlying the site have been obtained from the relevant geological map of the area, ref. 8.6.

3.1.2 The geological map indicates the site to be directly underlain by undifferentiated bedrock of the Lewes Nodular and Seaford Chalk Formation.

3.1.3 A thin band of the Chalk Rock Member outcrops in close proximity to the south of the site.

3.1.4 Superficial deposits are not recorded overlying the chalk bedrock beneath or in the immediate vicinity of the site.

3.1.5 Although not indicated as present from the geological maps, there is the possibility that Made Ground may exist on the site resulting from previous development.

3.1.6 Local existing boreholes close to the site indicate Topsoil to 0.6m, over ballast to 3.04m, over chalk to the end of the borehole at 36.57m below ground level (bgl). This information is based upon records provided by the British Geological Survey.

3.2 Hydrogeological Setting

3.2.1 The hydrogeological records, provided by the Environment Agency, indicate that the site is situated above a Principal aquifer, relating to the highly permeable chalk bedrock.

3.2.2 The Environment Agency defines Principal aquifers as 'layers of rock or drift deposits that have high intergranular and/or fracture permeability - meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale'.

3.2.3 The Envirocheck vulnerability map indicates the soil to be of intermediate leaching potential.

3.2.4 Soils of intermediate leaching potential are soils that can possibly transmit a wide range of pollutants.

3.2.5 The site is not located within a groundwater source protection zone.

3.2.6 There are two licensed groundwater abstractions recorded within 2km of the site. The closest is approximately 437m to the east of the site for household water supply (drinking, cooking, washing and sanitary use). The other is approximately 1180m to the northwest of the site for general farming and domestic use.

3.3 Hydrological Setting

3.3.1 The nearest surface water is a small pond approximately 823m to the south of the site. An inland river is also recorded some 998m to the northwest of the site.

3.3.2 The site is not situated within an area defined by the Environment Agency as being at risk of flooding from rivers or the sea.

3.3.3 However, the Envirocheck data indicates that there is a limited potential for groundwater flooding to occur at the site.

3.3.4 There is no available river quality classification data for the nearest watercourse.

3.3.5 There are no licensed surface water abstractions within 2km of the site.

3.4 Radon

3.4.1 The British Geological Survey, in conjunction with the Radiation Protection Division of the Health Protection Agency, ref. 8.7, indicates the site to lie within an area where there is a probability of <1% of present or future homes being above the action level of 200Bq/m^3.

3.4.2 As such, the site is not classified as a Radon Affected Area and no radon protective measures are deemed necessary for the proposed development. This is confirmed by the Building Research Establishment, Report BR211, ref 8.8.

3.5 Soil Geochemistry

3.5.1 The British Geological Survey data indicates the following concentrations of naturally occurring metals to be representative of background levels in natural soil underlying the site. The levels are based on those present in rural soils and are not necessarily representative of levels within Made Ground which may be encountered on site:

Element	Concentration (mg/kg)
Arsenic	15-25
Cadmium	<1.8
Chromium	60-90
Lead	<100
Nickel	30-45

4.0 ASSESSMENT OF GEOTECHNICAL RISK

4.1 Geological Constraints

4.1.1 The following are brief findings relating to factors identified during the research from the Envirocheck data that may have a potential impact upon the engineering of the proposed development.

Potential Hazard	Assessed Risk	Comment
BGS Recorded Mineral Sites	Low	There is one BGS recorded mineral site within 500m of the site, approximately 349m to the northeast, relating to Dovehouse Wood Pit (opencast chalk pit), activity at which has since ceased.
Other shallow mine workings	Very Low	No other economic minerals are known to have been worked locally.
Man-Made Cavities	Low	Man-made cavities in the form of multiple chalkwells are recorded approximately 308m to the southeast of the site.
Collapsible Ground	Very Low	The Envirocheck data indicates a very low risk from collapsible ground.
Compressible Ground	Very Low to Low	Significant thicknesses of highly compressible material such as Made Ground are not anticipated.
Ground Dissolution	Very Low to Low	The solubility of local limestones is generally very low.
Landslide	None	The site is essentially level.
Running Sand	None	Granular deposits are not anticipated beneath the site.
Shrinking or Swelling Clay	None	Highly plastic cohesive soils are not anticipated beneath the site.
Unconsolidated Made Ground	Low	There is no evidence for any extensive upfilling.
Bearing Pressure	Very Low	Weak soils are not anticipated at shallow depth.
Aggressive conditions for construction materials	Very Low	Geological sequence is not anticipated to contain potentially high concentrations of sulphates and sulphides.
Shallow or high groundwater table	Low	The Envirocheck data indicates a limited potential for groundwater flooding to occur on the site.
Buried foundations	Low	A previous structure was recorded in the northeastern corner of the site and therefore, the presence of buried foundations is considered a possibility.

4.2 Geotechnical Risk Assessment

4.2.1 An assessment of the main hazards associated with the site is detailed below. Unless stated otherwise, the presence of such hazards are based on information from the research or reconnaissance and have not been confirmed by an intrusive investigation.

- Soil Conditions

  The previous development on the site is considered to represent risk due to the unknown nature of the material used to backfill any potential excavations. Such material may be both highly compressible and variable, potentially leading to excessive total and differential settlements. The associated risk is considered to be very low to low as any excavations are thought likely to have been shallow.

  Geological maps indicate the site to be underlain directly by deposits of chalk, and as such, there is considered to be a risk from potential dissolution features associated with this material. There are no natural cavities recorded within the vicinity of the site, and as such, the associated risk is considered to be very low to low.

- Topography

  The Envirocheck data indicates no risk of landslide subsidence. Furthermore, the site is essentially level.

- Previous Use

  Historical mapping indicates limited previous development on the site. Therefore, there is considered to be a potential risk of the presence of buried structures such as services, basements and old foundations, particularly in the northeastern corner of the site.

4.3 Conclusions of Geotechnical Risk Assessment

4.3.1 The research has identified limited evidence for the potential of hazards associated with the underlying ground conditions, either natural or man-made. However, it is recommended that further work be carried out to confirm the findings of the research, and to establish the engineering parameters of the underlying stratum to facilitate foundation design.

5.0 ENVIRONMENTAL SEARCHES

5.1 Potential Sources of Contamination

5.1.1 A search was made of records held by the various regulatory authorities and other statutory bodies to determine the presence or otherwise of past and current activities on or within 500m of the site which have the potential to give rise to the presence on site of contaminants. The findings are given in the table below:

Activity	On Site	Off Site (distance / direction)	Detail
Contaminated Land Register Entries	None	None within 500m	
Discharge Consents	None	None within 500m	
Integrated and Local Authority Pollution Prevention and Controls	None	None within 500m	
Pollution Incidents to Controlled Waters	None	None within 500m	
Prosecutions Relating to Authorised Processes or Controlled Waters	None	None within 500m	
Registered Radioactive Substances	None	None within 500m	
Substantiated Pollution Incident Register	None	None within 500m	
BGS Recorded Landfill Sites	None	None within 500m	
Historical Landfill Sites	None	None within 500m	
Licensed Waste Management Facilities	None	None within 500m	
Local Authority Recorded Landfill Sites	None	None within 500m	
Registered Landfill Sites	None	None within 500m	
Registered Waste Transfer Sites	None	None within 500m	
Registered Waste Treatment or Disposal Sites	None	None within 500m	
Hazardous Substances	None	None within 500m	
Explosive Sites	None	None within 500m	

Activity	On Site	Off Site (distance / direction)	Detail
Contemporary Trade Entries	None	Twenty-one within 250m, seventeen at 251-500m, closest at 174-177m south	Closest entry relates to inactive car body repairs/used car dealers/garage services. Closest active entry at 186m south relates to printing engineering services. Remainder relate to a wide range of commercial and retail activities commonplace in an urban setting.
Fuel Station Entries	None	One at 174m south	Obsolete.

5.2 Green Belt Areas

5.2.1 The site is located within a designated area of Adopted Green Belt land.

5.2.2 Green Belt Areas are generally areas that are designated as being under special consideration for development. Local Authorities may restrict the type of development, place particular planning constraints on proposed developments, or potentially restrict any development within a designated Green Belt area.

5.3 Designated Sites

5.3.1 The Envirocheck data indicates designated Areas of Ancient Woodland approximately 233m to the north of the site, Park/Dovehouse Woods, and some 704m and 815m to the north of the site, Christmas Wood.

5.4 Nitrate Vulnerable Zone

5.4.1 The site is located within an area designated as a nitrate vulnerable zone.

5.4.2 The Nitrates Directive defines this nitrate vulnerable zone as:

a) Surface freshwater which contains or could contain, if preventative action is not taken, nitrate concentrations greater than 50mg/l.

5.5 Contemporary Trade Entries

5.5.1 There are thirty-eight contemporary trade entries recorded within 500m of the site. The closet entries are recorded between 174m and 177m to the south of the site relating to inactive car body repairs/used car dealers/garage services. The closest active entry, approximately 186m to the south of the site, relates to printing engineering services. The remainder relate to a wide range of commercial and retail activities commonplace in an urban setting.

5.5.2 A former fuel station is recorded approximately 174m to the south of the site.

5.5.3 None of the recorded land uses are considered likely to have significantly impacted upon ground conditions beneath the site.

6.0 ASSESSMENT OF GEOENVIRONMENTAL RISK

6.1 General

6.1.1 The definition of 'contaminated land', along with the relevant details on legislation and guidance is set out in Appendix 3.

6.1.2 The assessment of potential risk has been based on the guidelines given in CIRIA report C552, ref 8.9. These guidelines are summarised in Appendix 3.

6.1.3 The assessment of environmental risk is aimed at identifying the possible risk, if any, arising from substances used or deposited on the site, or from any other sources of land contamination, based on the principles of the pollutant linkage.

6.1.4 The assessment is based on the proposed development end use, taking account of present and previous use. It is based only on a review of historical maps, desk based data and site reconnaissance; therefore it contains some elements of conjecture based on professional judgement. A comprehensive risk assessment can only be made following an intrusive investigation and testing regime.

6.1.5 The proposed development comprises three residential dwellings.

6.2 Potential Sources of Contamination Identified

6.2.1 The research has identified the following potential sources of contamination which may form part of a pollutant linkage:

- Made Ground resulting from previous development on and in the immediate vicinity of the site.
- Asbestos from structures on the site.
- Ground gas associated with any Made Ground and/or organic contamination.

6.3 Potential Pathways Identified

6.3.1 The research has identified a number of potential pathways which are relevant to the potential sources of contamination identified above and may form part of a pollutant linkage.

6.3.2 Those identified are detailed within the Conceptual Site Model, along with the receptors relevant to the development on a site specific basis.

6.4 Hazard Identification

6.4.1 The research has identified a number of potential sources and pathways which are considered 'likely' to be present which, taking into account the potential receptors identified, form potential pollutant linkages and have been used in the formulation of the Conceptual Site Model.

6.5 Hazard Assessment

6.5.1 An assessment of the main sources of contamination and the potential for unacceptable risk to receptors is detailed below. Unless stated otherwise, it is considered 'likely' that a potential source is present at this stage, in order to provide a preliminary estimation of the risk and therefore determine the need for further work.

- Human Health

  As the site has been previously developed, there is the limited potential for contamination to be present within any Made Ground, and also a limited potential for ground gas associated with the Made Ground and/or any organic contaminants. Due to the age of the structures recorded on the site, there is the potential for asbestos to be present within any Made Ground.

  The main receptor is considered to be end users of the development and the overall risk is considered to be low to moderate.

- Construction Material

  There is considered to be a low to moderate risk from chemical attack on services and construction materials emplaced within the Made Ground. If organic contaminants are present in any form, there is likely to be a risk to plastic water supply pipes.

- Controlled Waters

  The site is situated above a Principal aquifer relating the highly permeable chalk bedrock. However, the soils are classified as having only intermediate leaching potential, and the site is not situated within a groundwater source protection zone. There is however a licensed abstraction for drinking water at a domestic property recorded approximately 437m to the east of the site.

  There are no significant watercourses identified within 500m of the site. The nearest surface water is a small pond approximately 823m to the south of the site. An inland river is also recorded some 998m to the northwest of the site.

  Given the limited potential for contamination on the site and the distance to sensitive receptors, the risk to controlled groundwater is considered to be low, and the risk to surface water very low.

6.6 Conceptual Site Model

6.6.1 The research has therefore identified the following pollutant linkages that require further consideration and have been used to formulate the Conceptual Site Model.

Source	Potential Contaminants of Concern	Potential Pathways	Receptor Group	Risk
Made Ground and structures	Heavy Metals PAHs TPHs Asbestos	Ingestion of contaminated soil by direct contact Ingestion of vegetables grown in contaminated soil Entry of contaminants by skin or eye contact with contaminated soils or dust Inhalation of contaminated dust Inhalation or migration of toxic/explosive gases/vapours	Humans • Site users • Construction workers • Neighbouring site users Water Environment • Groundwater • Surface Water Buildings, Materials and Services • Plastic pipes and services	Low/Moderate Negligible[1,2] Negligible[2] Low Very Low Low/Moderate
Ground Gases	Methane Carbon dioxide	Migration Ingression	Humans and buildings • Gas ingress into buildings • Site occupants	Low/Moderate Low/Moderate

[1] – Assumes that PPE is worn at all times
[2] – Pathway exists only during the construction period

6.7 Conclusions of Geoenvironmental Risk Assessment

6.7.1 The research has identified evidence of potential sources of contamination on or which may impact on the site, with plausible pathways to the likely receptors, and therefore potential pollutant linkages have been suggested.

6.7.2 It is recommended that further work be carried out to confirm the presence, nature or extent of any contamination which is anticipated to impact on the site.

6.8 Consultation

6.8.1 During development, consultation may be required for a number of reasons with a number of regulatory Authorities. The following provides an indication as to the most likely Authorities with which consultation may be required:

- **Local Authority.** There may be a planning condition regarding contamination and consultation will be required with a designated Contaminated Land Officer within the Environmental Health Department. The Local Authority is generally concerned with human health risks.

- **Environment Agency.** Where a site is within a groundwater protection zone or has been designated as a special site, the Environment Agency is likely to be involved to ensure that controlled waters are protected.

- **National House Building Council, NHBC.** Section 4.1 of the NHBC Standards, ref 8.10, requires land management to be addressed. For a new housing development to be approved by the NHBC, any contamination will require remediation accompanied by a validation report.

6.8.2 Based on the results of any consultation, there may be specific investigation and/or remediation requirements imposed by one or more of the Authorities.

7.0 RECOMMENDATIONS

7.1 Further Work

7.1.1 An intrusive investigation should be undertaken to address the issues raised in Chapter 4.0 and Chapter 5.5.1.

7.1.2 The following scope of works is suggested in order to collect the required data:

- The sinking of boreholes for the recovery of samples for geotechnical and chemical contamination analysis.
- The installation and monitoring of gas and groundwater monitoring standpipes.

7.2 Other Considerations

7.2.1 There are several other areas of research which are beyond the scope of this report. All or none of the following may be applicable to the site, either on the outcome of consultation with a regulatory body or as a result of the research for this Preliminary Investigation. They include:

- **Archaeology.** Should the site be situated on or within an area of archaeological sensitivity, the advisor to the relevant local authority should be consulted. The requirement for an archaeological report may be identified within a planning condition, if appropriate, for the site.
- **Ecology.** There may be a requirement for a detailed ecological report, dependant on the type or size of the development, or due to evidence identified during the site reconnaissance or desk study. This requirement may be identified within a planning condition, or recommended within Section 7.0.

8.0 REFERENCES

8.1 CLR 3, '*Documentary research on industrial sites*', Report by RPS Consultants Ltd, DoE, 1994

8.2 CLR 11, '*Model Procedures for the Management of Land Contamination*' Report by Defra and the Environment Agency, 2004

8.3 BS 10175: 2011 '*Investigation of potentially contaminated sites. Code of practice*', British Standards Institute, 2011

8.4 GPLC1, *'Guiding principles for land contamination'*, Environment Agency, 2010

8.5 CLR 2, '*Guidance on preliminary site inspection of contaminated land*', Report by Applied Environmental Research Centre Limited, DoE, 1994

8.6 British Geological Survey, Sheet No. 239, 'Hertford', drift edition, 1:50000 scale, published 1978

8.7 HPA-RPD-033, '*Indicative Atlas of Radon in England and Wales*', Health Protection Agency, 2007

8.8 BR211, '*Radon: Protective measures for new dwellings*'. BRE, 2007

8.9 C552, '*Contaminated Land Risk Assessment, A Guide to Good Practice*', CIRIA, 2001

8.10 Standards, *'Land Quality – Managing Ground Conditions'*, Chapter 4, NHBC, 2010

8.11 The Environmental Protection Act, Part IIA, Section 78, 1990

8.12 Environment Act 1995, Section 57, DoE, 1995

8.13 Water Environment and Water Services (Scotland) Act, 2003

8.14 Planning Policy Statement 23: Planning and Pollution Control, ODPM, 2004

8.15 Science Report SC050021/SR2, '*Human health toxicological assessment of contaminants in soil*'. Environment Agency, 2009

8.16 Science Report SC050021/SR3, '*Updated technical background to the CLEA model*'. Environment Agency, 2009

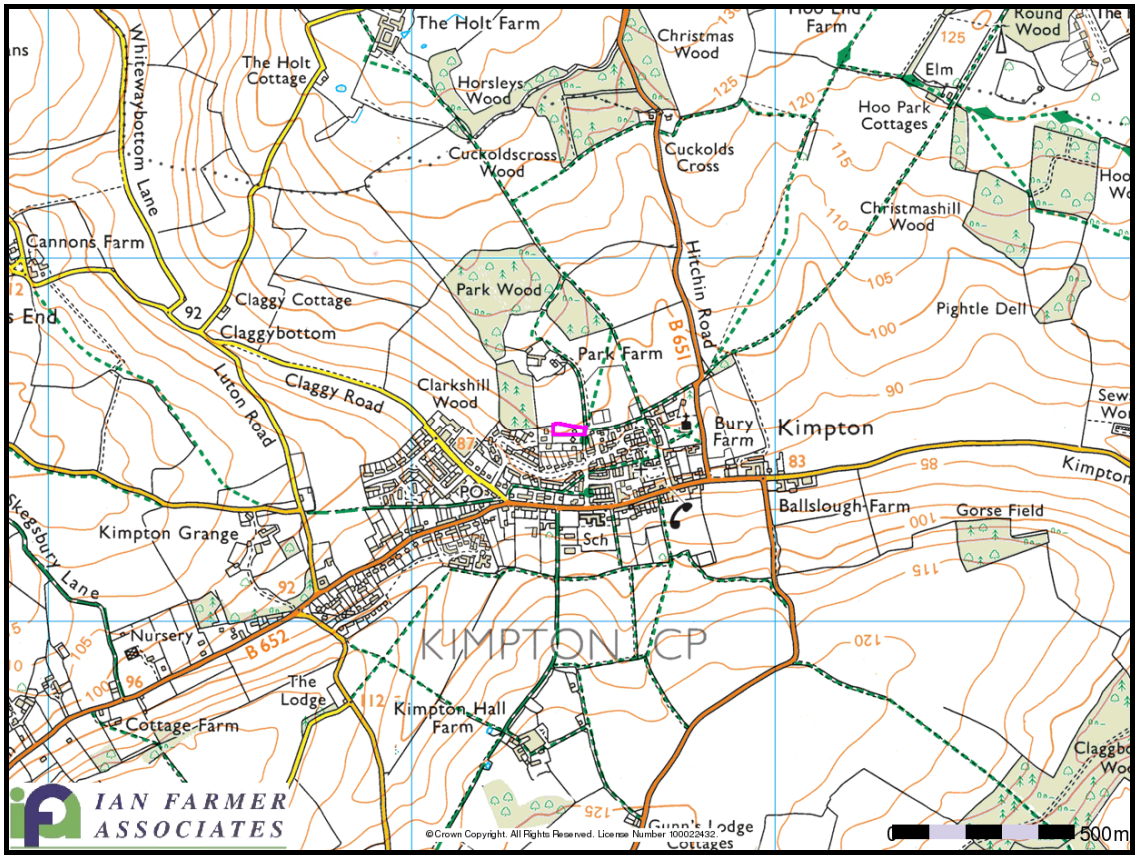
For and on behalf of Ian Farmer Associates (1998) Limited

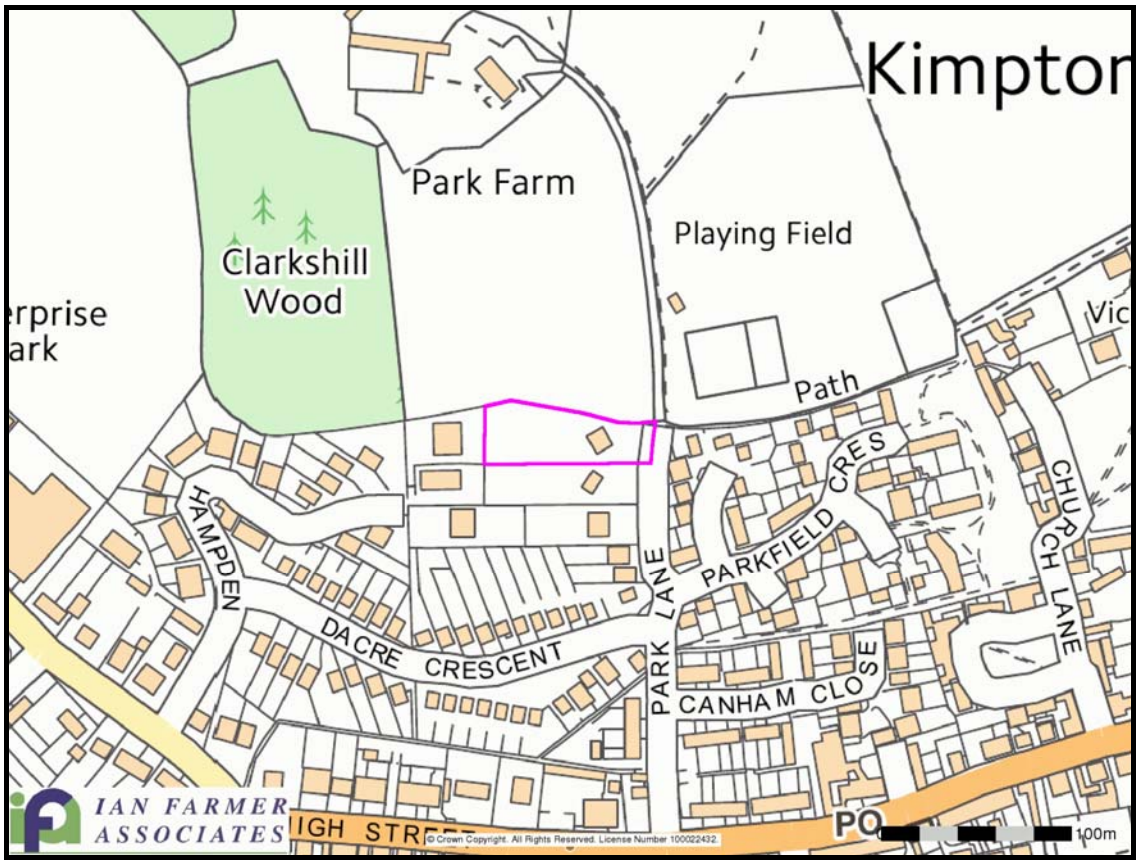
Victoria Tickner
BSc (Hons) MSc PIEMA
Principal Environmental Engineer

Lee Hammond
BEng (Hons) FGS
Senior Geotechnical Engineer

APPENDIX 1

DRAWINGS





IAN FARMER ASSOCIATES Geotechnical & Environmental Specialists	**SITE LOCATION PLANS**	Job no. 52688
	White Cottage, Park Lane, Kimpton, Hitchin, SG4 8EG	Fig. A1.1



IAN FARMER ASSOCIATES Geotechnical & Environmental Specialists	**AERIAL PHOTOGRAPH**	Job no. 52688
	White Cottage, Park Lane, Kimpton, Hitchin, SG4 8EG	Fig. A1.2

IAN FARMER ASSOCIATES Geotechnical & Environmental Specialists	**PROPOSED DEVELOPMENT PLAN**	Job no. 52688
	White Cottage, Park Lane, Kimpton, Hitchin, SG4 8EG	Fig. A1.3

APPENDIX 2

SITE WALKOVER PHOTOGRAPHS



Photograph 1 – Looking west toward existing structure and lamp post.



Photograph 2 – Looking west from the central area of the site.

IAN FARMER ASSOCIATES Geotechnical & Environmental Specialists	**SITE PHOTOGRAPHS**	Job no. 52688
	White Cottage, Park Lane, Kimpton, SG4 8EG	Fig. A2.1



Photograph 3 – Looking north west from the central area of the site.



Photograph 4 – Looking east toward the rear of the existing structure

IAN FARMER ASSOCIATES Geotechnical & Environmental Specialists	**SITE PHOTOGRAPHS**	Job no. 52688
	White Cottage, Park Lane, Kimpton, SG4 8EG	Fig. A2.1



Photograph 5 – Looking south east toward the existing structure.



Photograph 6 – Looking east toward the site entrance.

IAN FARMER ASSOCIATES Geotechnical & Environmental Specialists	**SITE PHOTOGRAPHS**	Job no. 52688
	White Cottage, Park Lane, Kimpton, SG4 8EG	Fig. A2.1

APPENDIX 3

ENVIRONMENTAL RISK

APPENDIX 3

ENVIRONMENTAL RISK ASSESSMENT

A3.1 STATUTORY FRAMEWORK AND DEFINITIONS

A3.1.1 The statutory definition of 'contaminated land' is defined in Part IIA of the Environmental Protection Act 1990, ref 8.11, which was inserted by Section 57 of the Environment Act 1995, ref 8.12, and came into force in England in 2000, as;

'any land which appears to the local authority in whose area it is situated to be in such a condition, by reason of substances in, on or under the land, that:

(a) significant harm is being caused or there is a significant possibility of such harm being caused; or

(b) pollution of controlled waters is being, or is likely to be, caused'.

A3.1.2 In Scotland, this has been amended by the Water Environment and Water Services (Scotland) Act 2003, ref 8.13, to '*significant pollution of the water environment is being caused or there is a significant possibility of such pollution being caused'.*

A3.1.3 The purpose of Part IIA was to help address the problems caused by historical contamination, with the voluntary remediation of such land encouraged without the use of the Act. The planning regime assists in this, with Planning Policy Statement 23: Planning and Pollution Control (PPS23), ref 8.14, published in 2004, setting out the minimum requirements for the remediation of land affected by contamination as '*after carrying out the development and commencement of its use, the land should not be capable of being determined as contaminated land under Part IIA of the EPA 1990*'.

A3.1.4 The UK guidance on the assessment of contaminated has developed as a direct result of the introduction of these two Acts. The technical guidance supporting the legislation was originally summarised in a number of key documents collectively known as the Contaminated Land Reports (CLRs), a proposed series of twelve documents. Seven were originally published in March 1994, four more were published in April 2002, while the final guidance document, CLR 11 was published in 2004. CLR7 to 10 were withdrawn in 2008, with CLR 9 and 10 effectively replaced by the Environment Agency in the form of Science Reports SR2, ref 8.15 and SR3, ref 8.16.

A3.1.5 CLR11 remains valid and sets out the framework of the investigation process, with the overall approach one of risk management, with risk given the definition of '*a combination of the probability or frequency, of occurrence of a defined hazard and the magnitude of the consequences of the occurrence*'. In establishing whether a site fulfils the statutory definition of 'contaminated land' it is necessary to identify whether the three essential elements of risk exist. These are defined as:

- A contaminant - a substance which is in, on or under the land and has the potential to cause harm or to cause pollution of controlled waters;
- A receptor - something which could be adversely affected by a contaminant, such as people, an ecological system, property or a water body; and
- A pathway – a route or means by which a receptor can be exposed to, or affected by, a contaminant.

A3.1.6 A *'pollutant linkage'* may be defined as the link between a contaminant *'source'* and a *'receptor'* by means of a *'pathway'*. There may be none, one or many pollutant linkages

existing on a site, which may utilise the same or different sources, pathways and receptors, which may change over the passage of time.

A3.1.7 Each pollutant linkage that exists in respect of the land in question must fulfil one or more of the following criteria:

- significant harm is being caused to the receptor in the pollutant linkage,
- there is a significant possibility of significant harm being caused to that receptor,
- there is (significant) pollution of controlled waters (the water environment) which constitute the receptor, or
- pollution of controlled waters is likely to be caused
- (there is a significant possibility of such pollution being caused).

A3.1.8 A pollutant linkage indicates that all three elements have been identified. The site can only be defined as 'Contaminated Land' under Part IIA if a pollutant linkage exists and the criteria above are met.

A3.1.9 The main potential receptors include:

1) Humans – current site occupants, construction workers, future site users and neighbouring site users.

2) Controlled Waters – surface water and groundwater resources

3) Property – including buildings, crops, livestock and pets

4) Ecological systems – including current/future site and neighbouring vegetation

A3.1.10 The main potential pathways to be considered include:

a) Ingestion and/or inhalation.

b) Uptake of contaminants via cultivated vegetables.

c) Dermal contact

d) Migration through permeable strata

e) Drains or services

f) Direct contact with building materials and services

g) Fire and explosion

A3.2 ASSESSMENT METHODOLOGY

A3.2.1 The guidance proposes a four-stage assessment process for identifying potential pollutant linkages on a site. These stages are set out in the table below:

No.	Process	Description
1	Hazard Identification	Establishing contaminant sources, pathways and receptors (the conceptual model).
2	Hazard Assessment	Analysing the potential for unacceptable risks (what linkages may be present and what could be the effects?).
3	Risk Estimation	Trying to establish the magnitude and probability of the possible consequences (what degree of harm might result and to what receptors, and how likely is it).
4	Risk Evaluation	Deciding whether the risk is unacceptable.

A3.2.2 Stages 1 and 2 develop a *'conceptual model'* based upon information collated from desk based studies, and reconnaissance of the site (a walkover survey). The walkover survey should be conducted in general accordance with CLR 2. The formation of a conceptual model is an iterative process and as such, it should be updated and refined throughout each stage of the project to reflect any additional information obtained.

A3.2.3 The extent of the desk based research and enquiries to be conducted should be in general accordance with CLR 3. The information from these enquiries is presented in a preliminary investigation report with recommendations, if necessary, for further work based upon the conceptual model. In the absence of specific information on contamination anticipated to be encountered, specific DoE 'Industry Profiles' provide guidance on the nature of contaminants relating to a variety of industrial processes and should be used as the basis for determining which contaminants are more likely to be present on a site.

A3.2.4 If potential pollutant linkages are identified within the conceptual model, an intrusive ground investigation and report will be recommended. The investigation should be planned in general accordance with CLR 4, and BS10175. The number of exploratory holes and samples collected for analysis should be consistent with the size of the site and the level of risk envisaged. This will enable a generic quantitative risk assessment (GQRA) to be conducted, at which point the conceptual model can be updated and relevant pollutant linkages can be identified.

A3.2.5 A two-stage investigation may be more appropriate where time constraints are less of an issue. The first stage investigation may be conducted as an initial assessment for the presence of potential sources, with the second being more refined in order to delineate or further characterise any contamination or the physical properties of the site.

A3.3 RISK EVALUATION

A3.3.1 The risk evaluation is a qualitative method for interpreting the data from the hazard estimation stage. It involves the classification of the:

- magnitude of the potential 'consequence' (severity) of the risk occurring and:
- magnitude of the 'probability' (likelihood) of the risk occurring.

A3.3.2 These are defined in the following sections:

A3.4 CLASSIFICATION OF CONSEQUENCE

Classification	Definition	Examples
Severe	Short-term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource. Catastrophic damage to buildings property. A short-term risk to a particular ecosystem, or organism forming part of such ecosystem (note: the definitions of ecological systems within the Draft Circular on Contaminated Land, DETR, 2000).	High Concentrations of cyanide on the surface of an informal recreation area. Major spillage of contaminants from site into controlled water. Explosion, causing building collapse can also equate to a short-term human health risk if buildings are occupied.
Medium	Chronic damage to Human Health ('significant harm' as defined in DETR, 2000). Pollution of sensitive water resources (note: Water Resources Act contains no scope for considering significance of pollution). A significant change in a particular ecosystem, or organism forming part of such ecosystem, (note: the definitions of ecological systems within Draft Circular on Contaminated Land, DETR, 2000).	Concentrations of a contaminant from site exceed the generic, or site-specific assessment criteria. Leaching of contaminants from a site to a major or minor aquifer. Death of a species within a designated nature reserve.
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm' as defined in the *Draft Circular on Contaminated Land*, DETR 2000). Damage to sensitive buildings/ structures/services or the environment.	Pollution of non-classified ground water. Damage to building rendering it unsafe to occupy (eg foundation damage resulting in instability).
Minor	Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc). Easily repairable effects of damage to buildings, structures and services.	The presence of contaminants at such concentrations that protective equipment is required during site works. The loss of plants in landscaping scheme. Discoloration of concrete

A3.4.1 In theory, both severe and medium classification can result in death. The differential is that severe relates to short term risk while medium relates to long-term risk. Therefore, the classification of severe requires urgent action while medium may require urgent action but usually long term action would be sufficient.

A3.5 CLASSIFICATION OF PROBABILITY

Classification	Definition
High likelihood	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution
Likely	There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low likelihood	There is a pollution linkage and circumstances are possible under which an event could occur However, it is by no means certain that even over a longer period such event would take place, and is less likely in the shorter term
Unlikely	There is a pollution linkage but circumstances are such that it is improbable that an event would occur even in the very long term

A3.5.1 For the purposes of this preliminary investigation, any source of contamination that has been identified by professional judgement as potentially impacting on the site has been classified as being 'likely' to be present, unless proven otherwise by intrusive investigation.

A3.6 COMPARISON OF CONSEQUENCE AGAINST PROBABILITY

A3.6.1 These classifications are compared to indicate the risk presented by each pollutant linkage. Once the consequence and probability have been classified they can be used to produce a risk category as below:

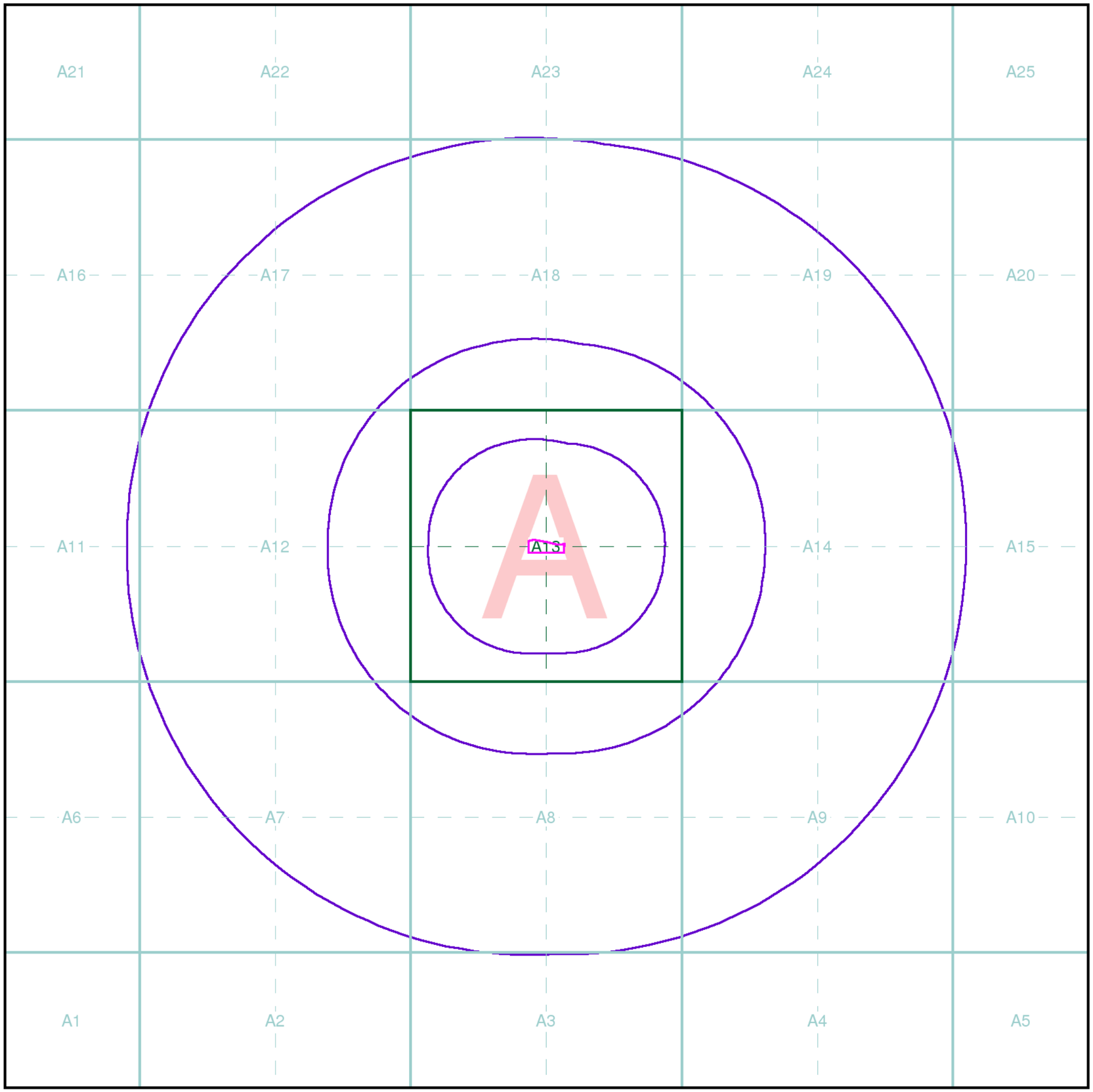
		Consequence			
		Severe	**Medium**	**Mild**	**Minor**
Probability	High likelihood	Very high risk	High risk	Moderate risk	Moderate/low risk
	Likely	High risk	Moderate risk	Moderate/low risk	Low risk
	Low likelihood	Moderate risk	Moderate/low risk	Low risk	Very low risk
	Unlikely	Moderate/low risk	Low risk	Very low risk	Very low risk

A3.6.2 The action required for the classified risks are as follows:

Very high risk	There is a high probability that severe harm could a risk to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required
High risk	Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term
Moderate risk	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term
Low risk	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Very low risk	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.

APPENDIX 4

ENVIROCHECK REPORT



IAN FARMER ASSOCIATES

Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:

Map data | British Geological Survey, Natural Environment Research Council | Environment Agency | Natural England

Envirocheck reports are compiled from 136 different sources of data.

Client Details

Ms V Tickner, Ian Farmer Associates, 1A Batford Mill,
Lower Luton Road, Harpenden, Hertfordshire, AL5 5BZ

Order Details

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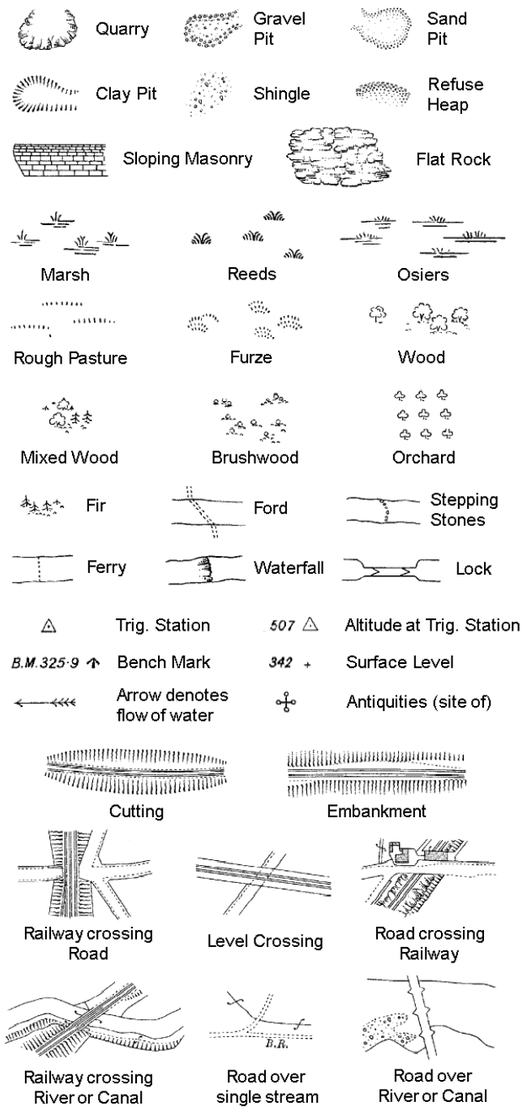
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Historical Mapping Legends

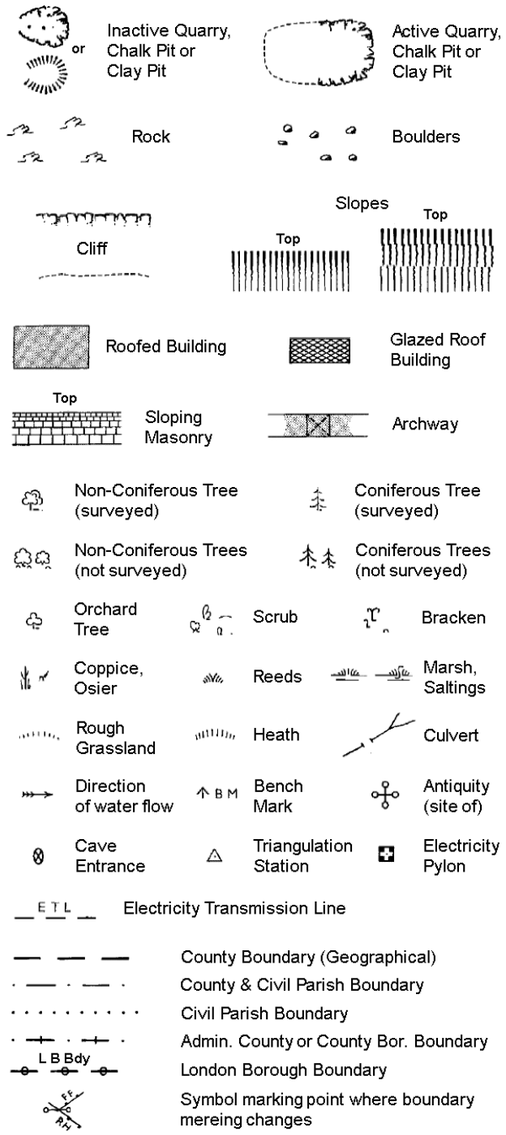
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

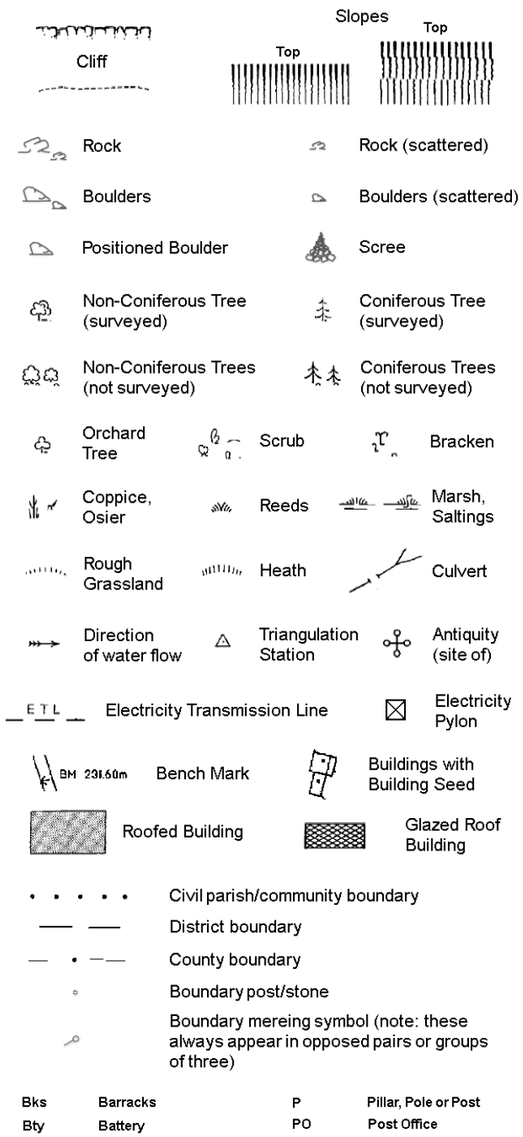
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

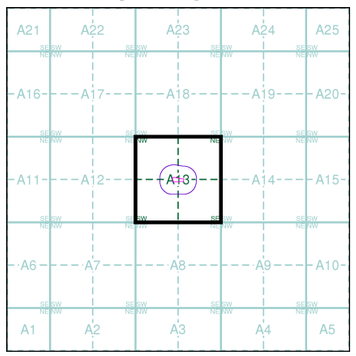
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

IAN FARMER ASSOCIATES

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
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Hertfordshire	1:2,500	1898	3
Hertfordshire	1:2,500	1924	4
Ordnance Survey Plan	1:2,500	1973	5
Additional SIMs	1:2,500	1979	6
Additional SIMs	1:2,500	1992	7
Large-Scale National Grid Data	1:2,500	1993	8
Large-Scale National Grid Data	1:2,500	1995	9
Historical Aerial Photography	1:2,500	1999	10

Historical Map - Segment A13



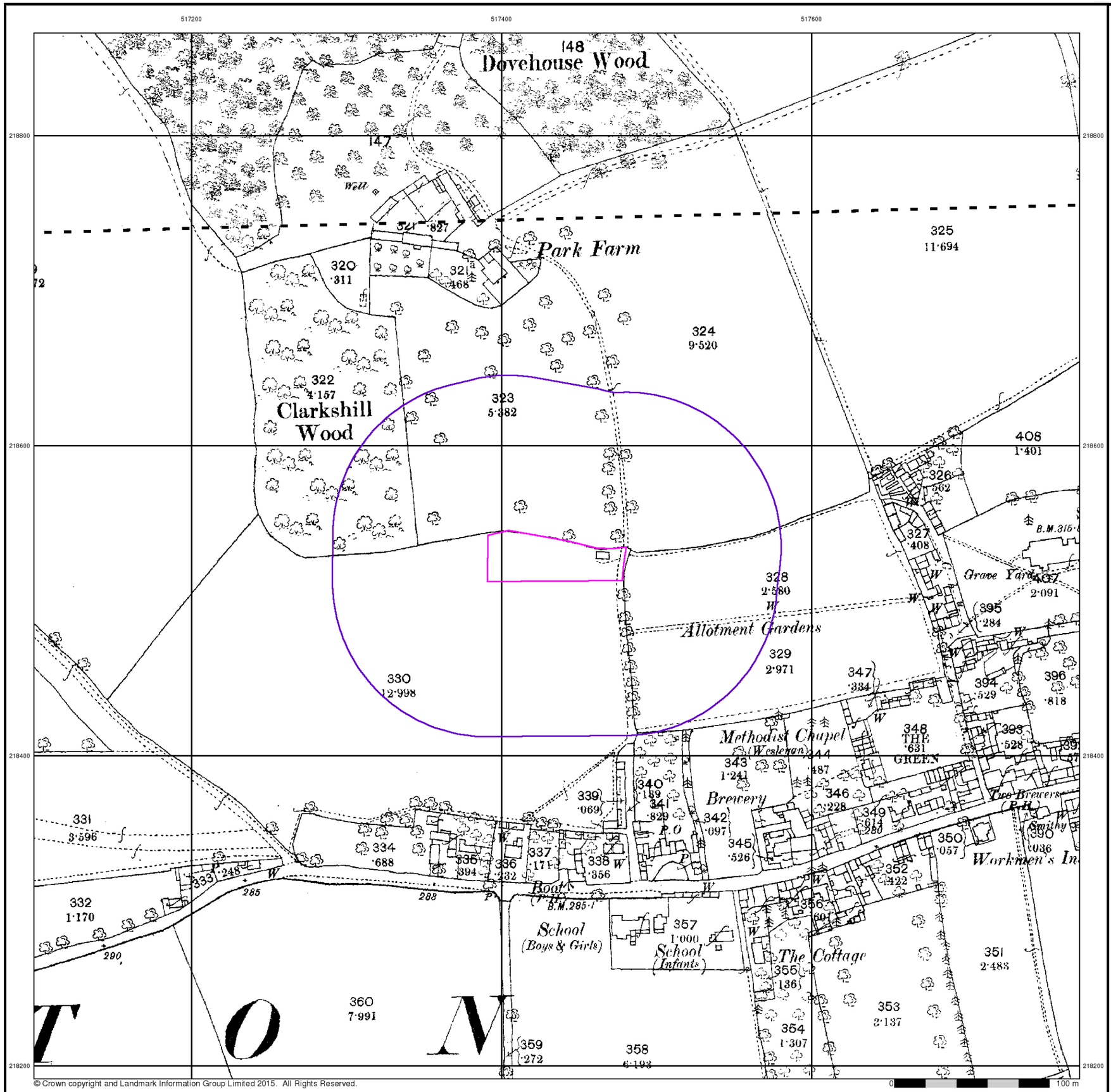
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Search Buffer (m):	100

Site Details

White Cottage, Park Lane, Kimpton, HITCHIN, SG4 8EG

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Hertfordshire

Published 1881

Source map scale - 1:2,500

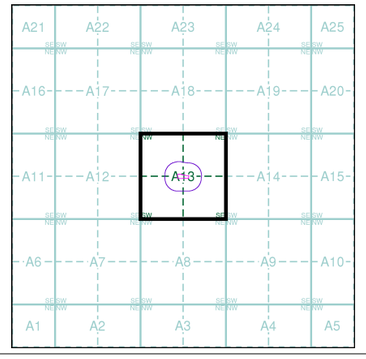
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

020_09
1881
1:2,500

020_13
1881
1:2,500

Historical Map - Segment A13



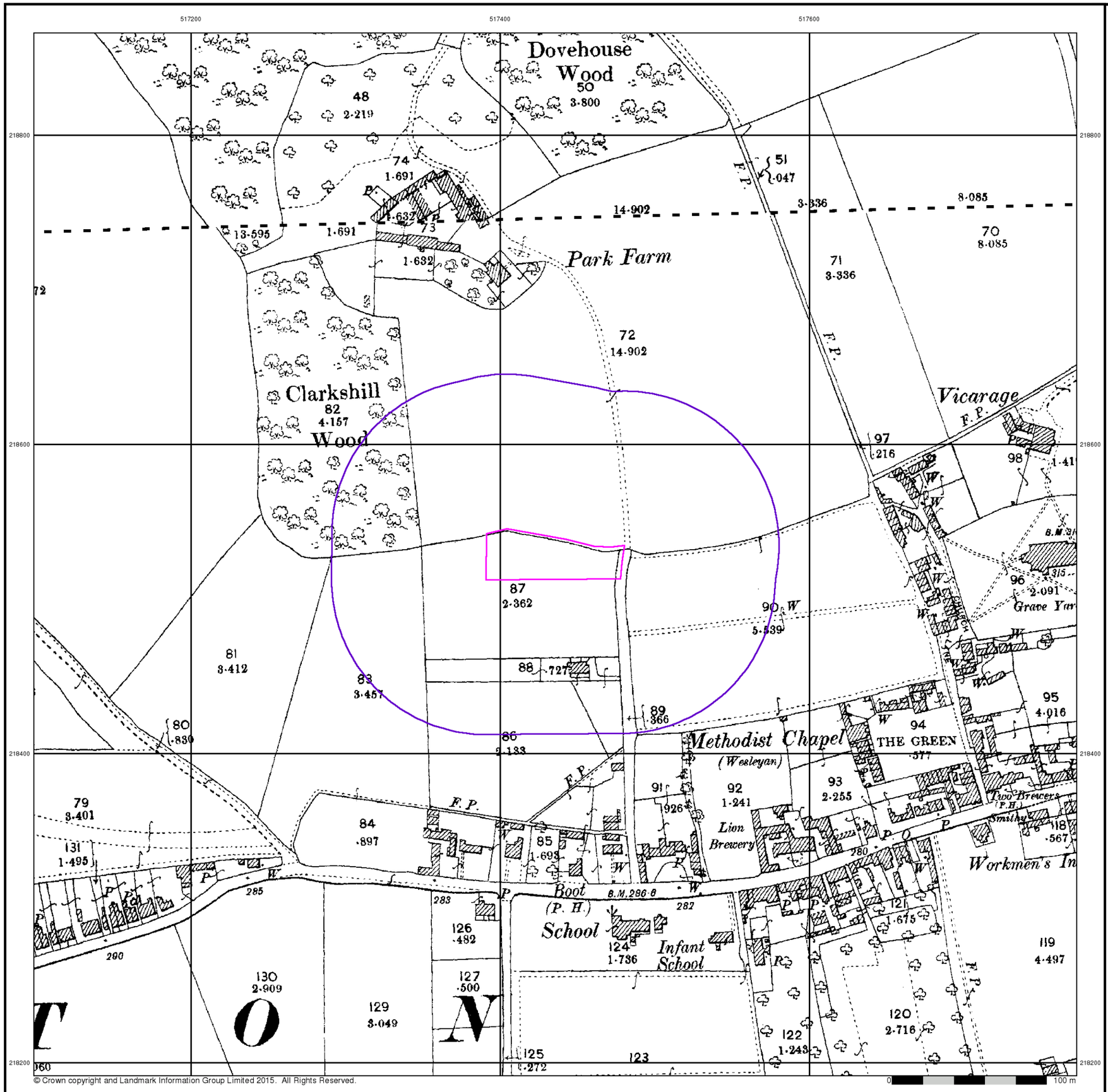
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Site Details

White Cottage, Park Lane, Kimpton, HITCHIN, SG4 8EG

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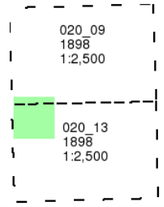
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Published 1898

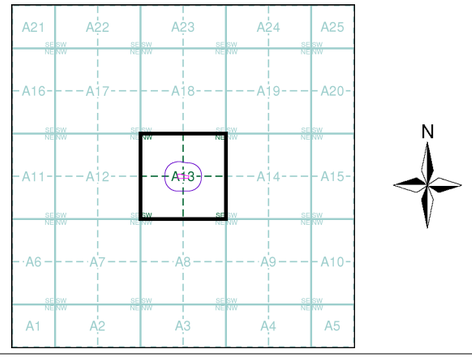
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



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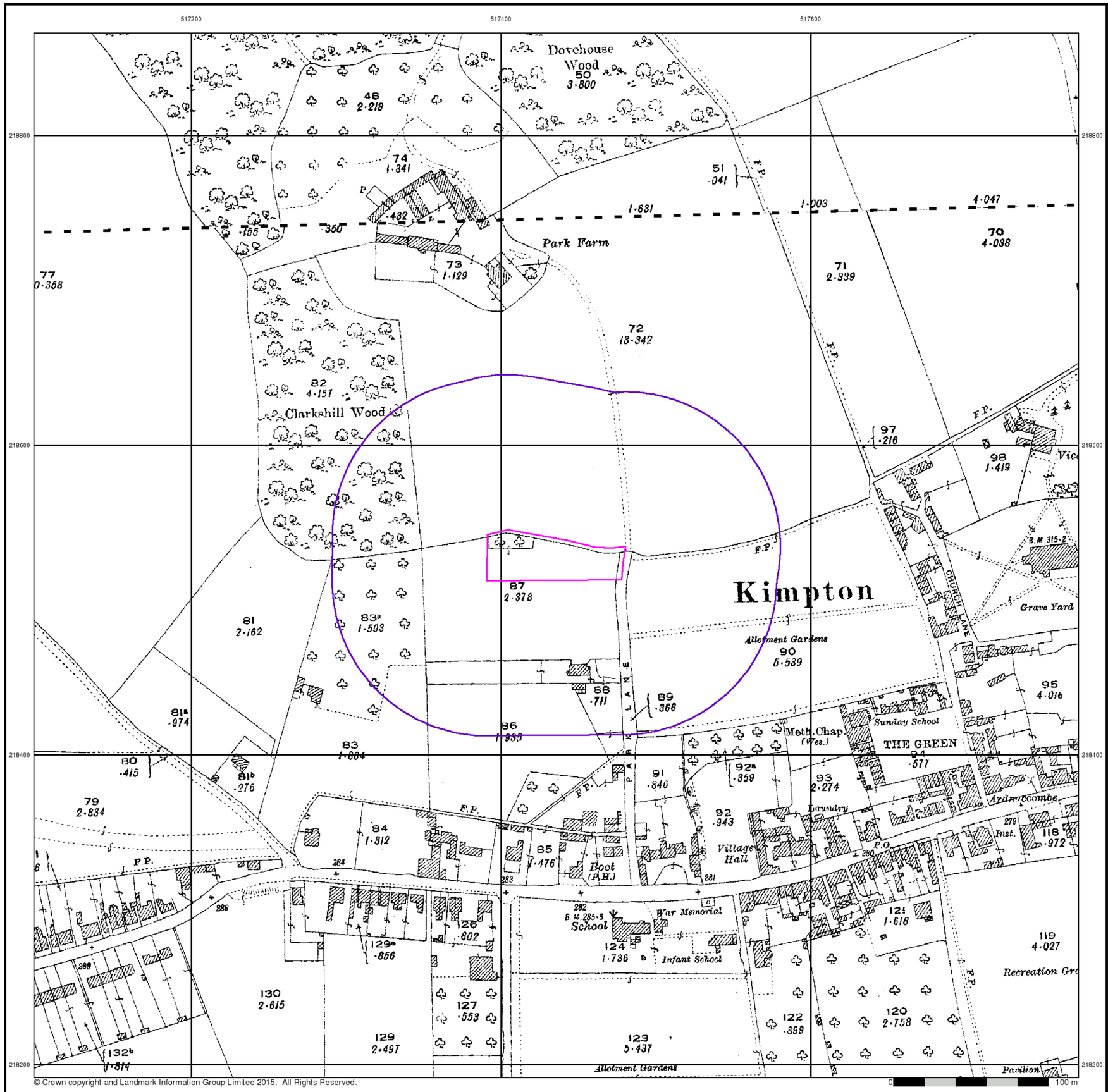
Order Number:	150439532_1_1
Customer Ref:	52688
National Grid Reference:	517430, 218530
Slice:	A
Site Area (Ha):	0.24
Search Buffer (m):	100

Site Details

White Cottage, Park Lane, Kimpton, HITCHIN, SG4 8EG

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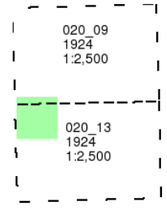
Hertfordshire

Published 1924

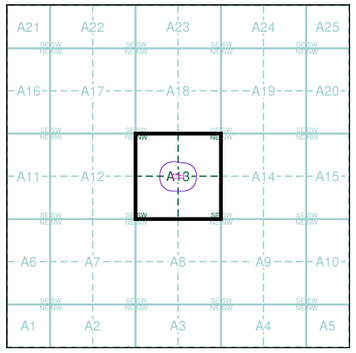
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



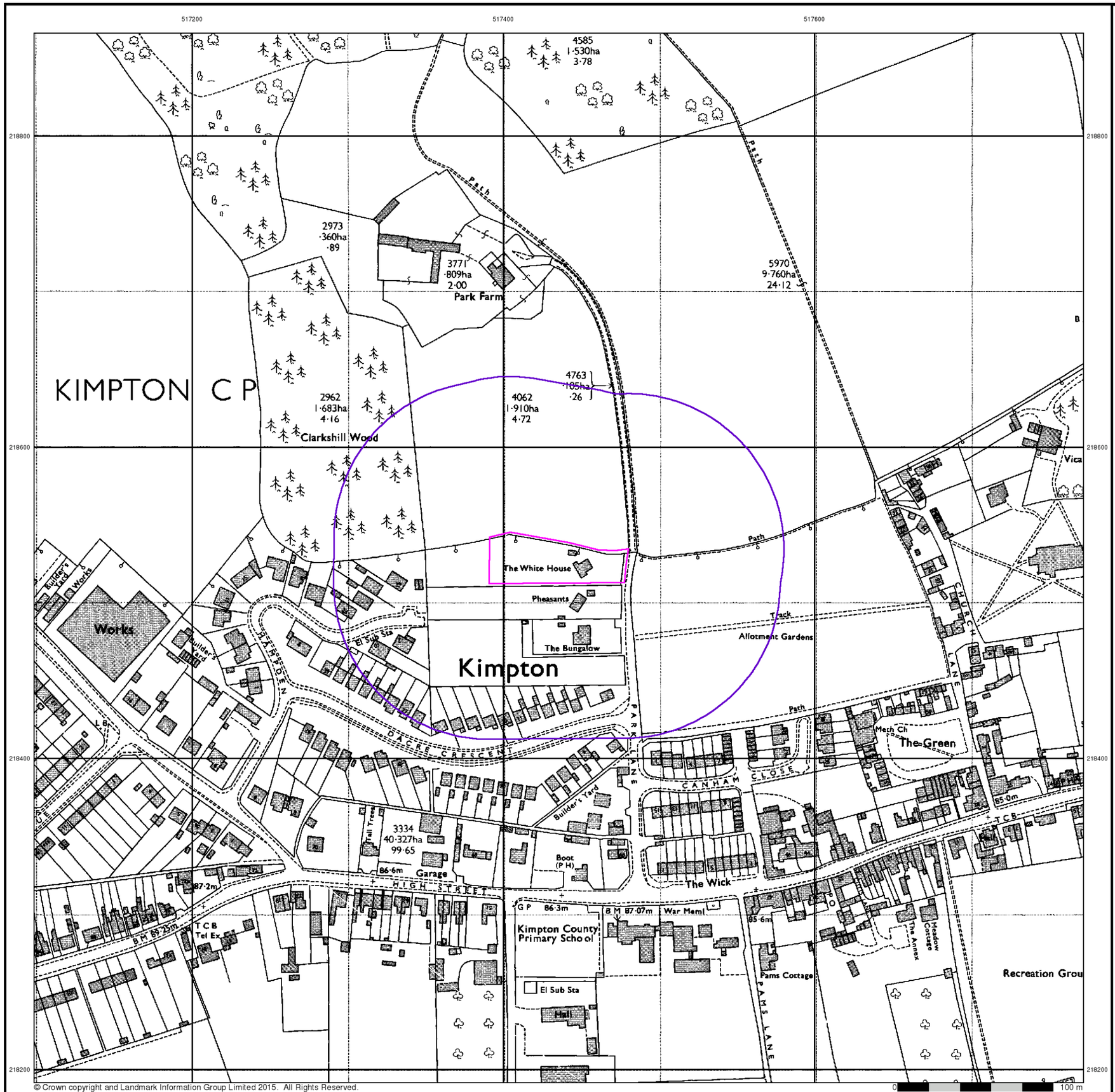
Order Details

Order Number:	150439532_1_1
Customer Ref:	52688
National Grid Reference:	517430, 218530
Slice:	A
Site Area (Ha):	0.24
Search Buffer (m):	100

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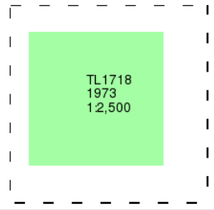
Ordnance Survey Plan

Published 1973

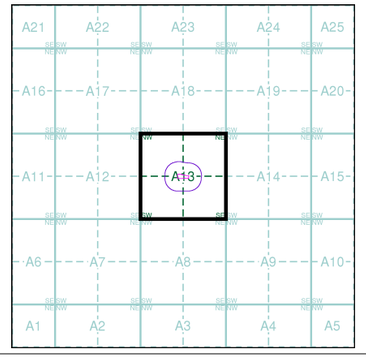
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



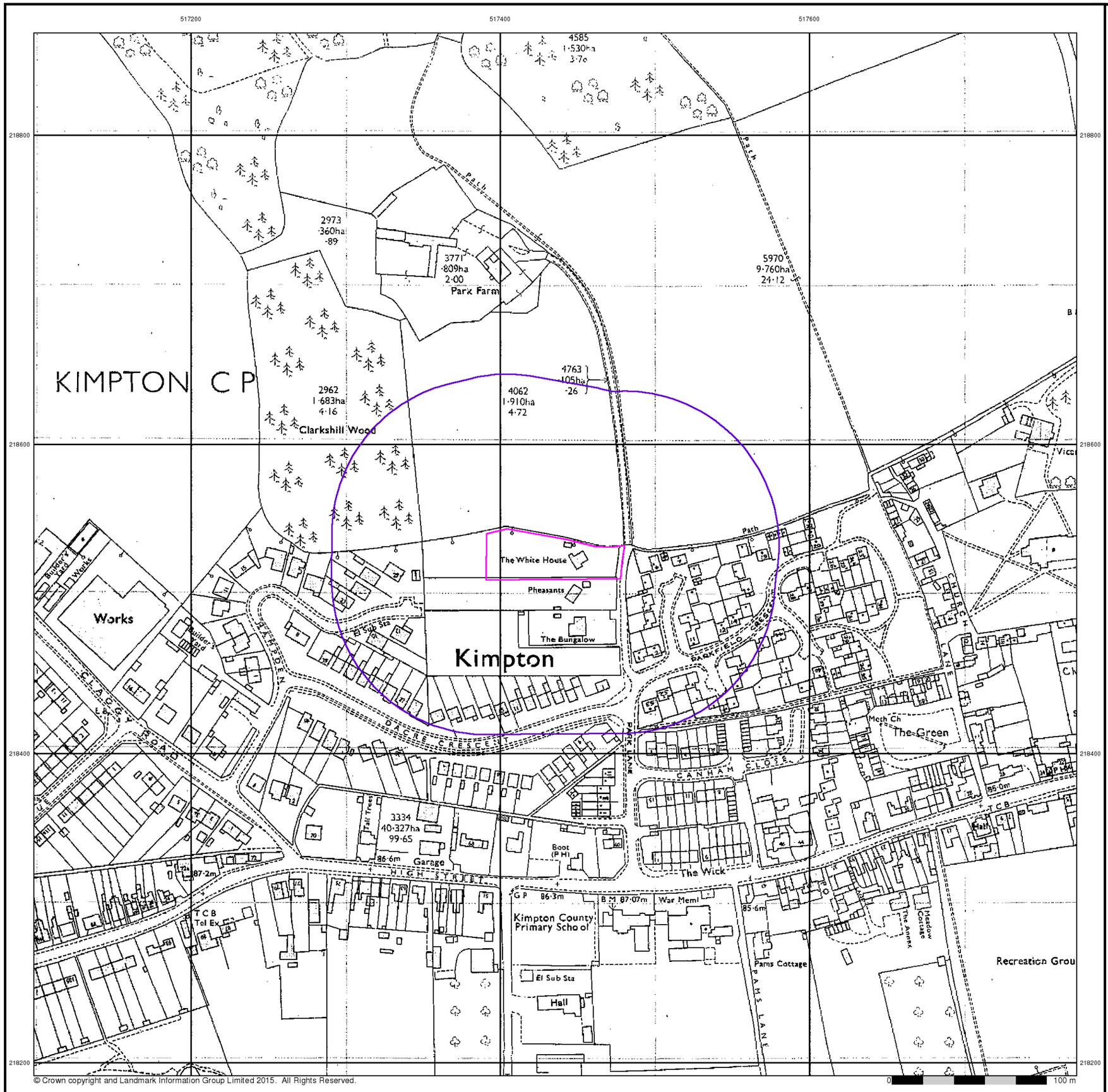
Order Details

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Customer Ref:	52688
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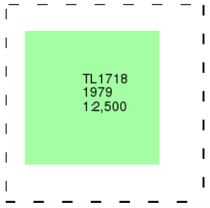
Additional SIMs

Published 1979

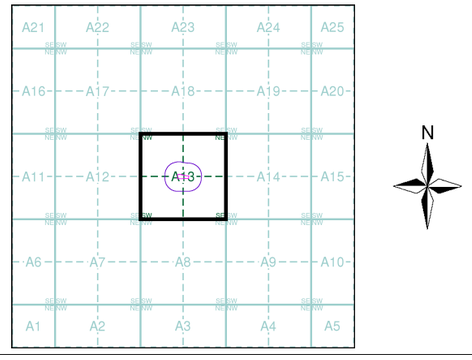
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



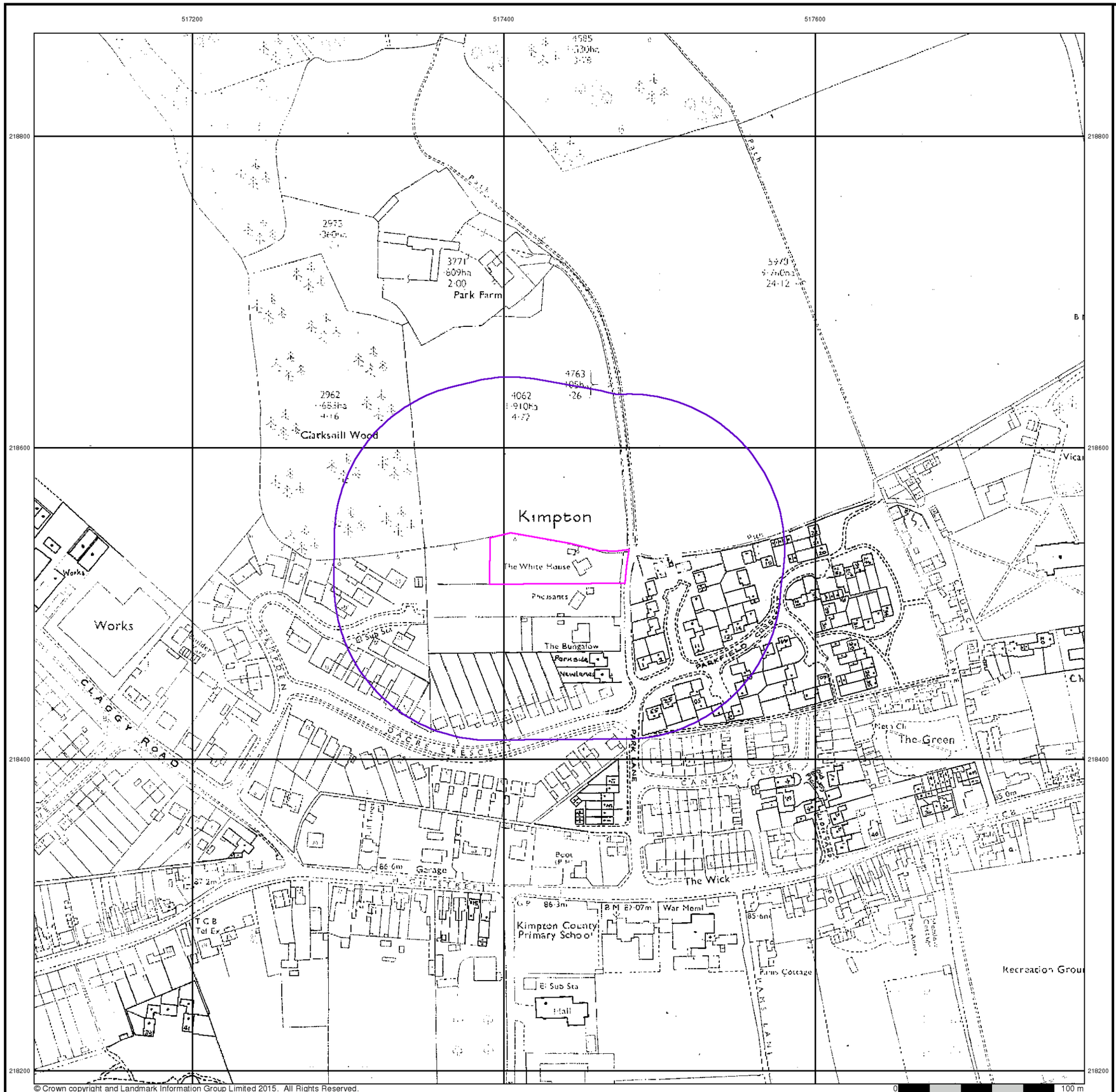
Order Details

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Slice:	A
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Site Details

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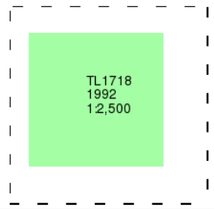
Additional SIMs

Published 1992

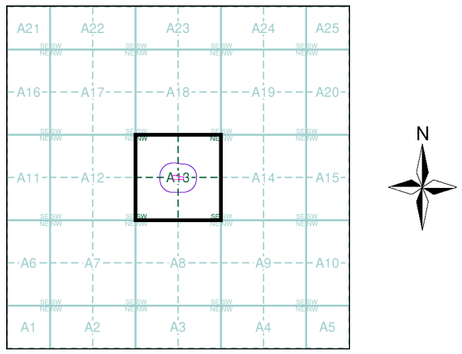
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



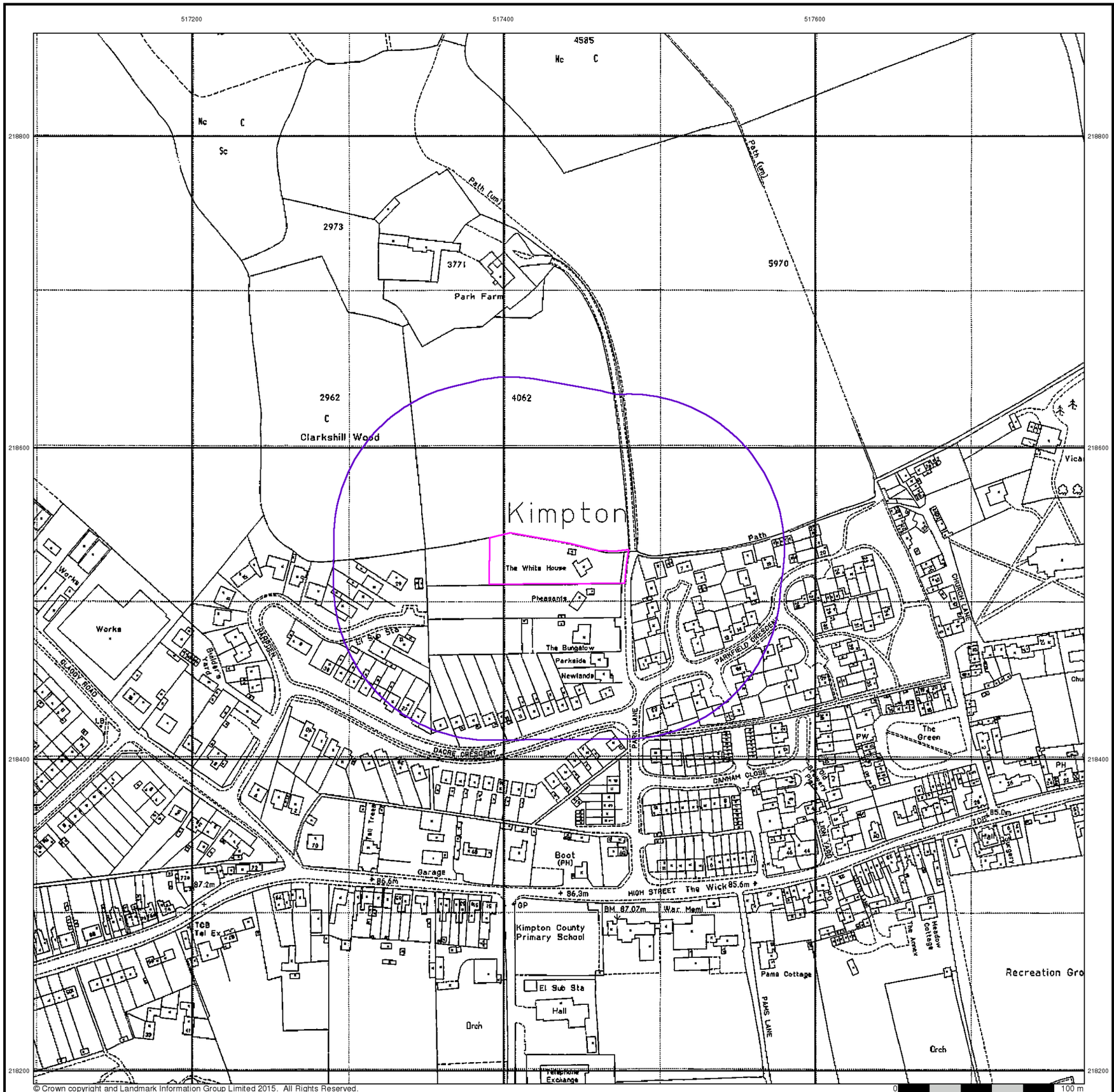
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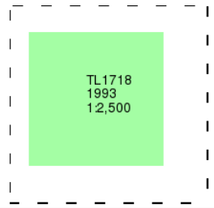
Large-Scale National Grid Data

Published 1993

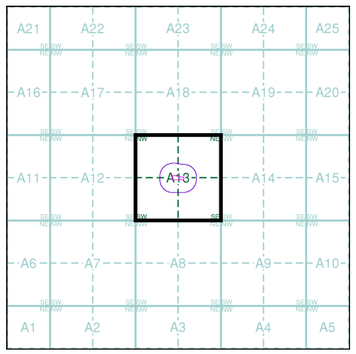
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



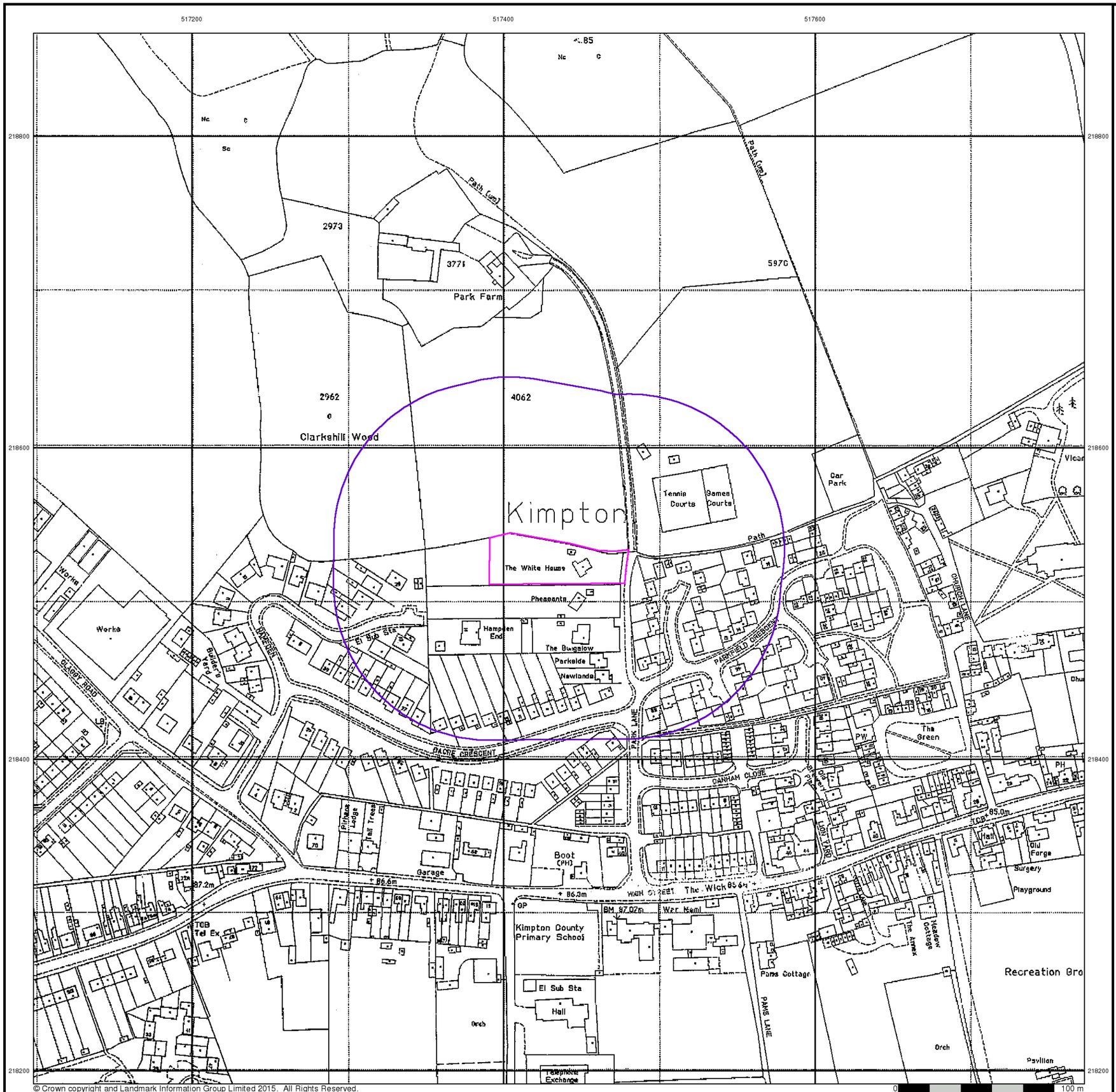
Order Details

Order Number:	150439532_1_1
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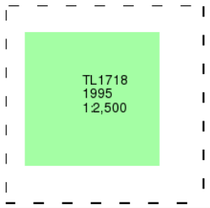
Large-Scale National Grid Data

Published 1995

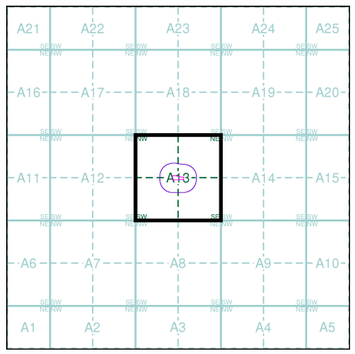
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



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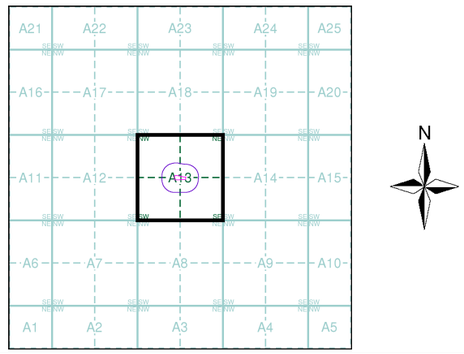
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Historical Aerial Photography

Published 1999

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13

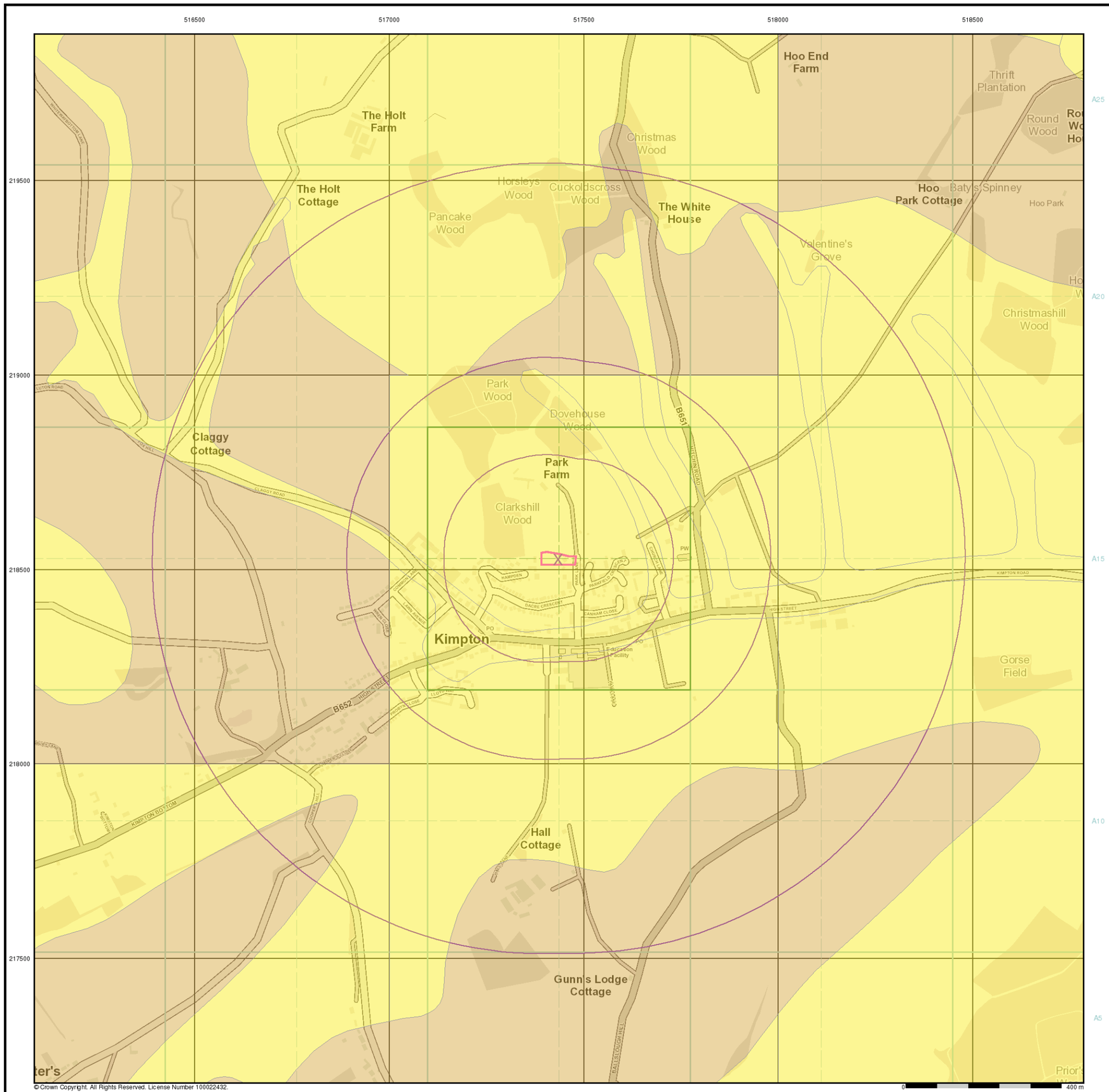


Order Details

Order Number:	150439532_1_1
Customer Ref:	52688
National Grid Reference:	517430, 218530
Slice:	A
Site Area (Ha):	0.24
Search Buffer (m):	100

Site Details

White Cottage, Park Lane, Kimpton, HITCHIN, SG4 8EG



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General

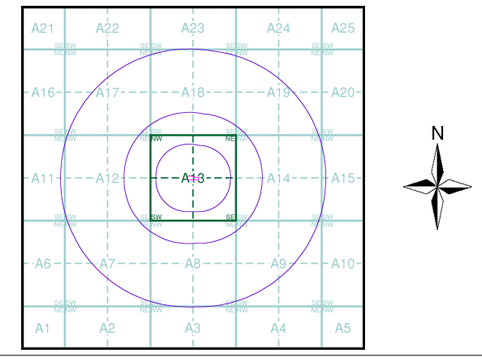
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Estimated Soil Chemistry Arsenic - Slice A



Order Details

Order Details:	150439532_1_1
Customer Ref:	52688
National Grid Reference:	517430, 218530
Slice:	A
Site Area (Ha):	0.24
Search Buffer (m):	1000

Site Details

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General

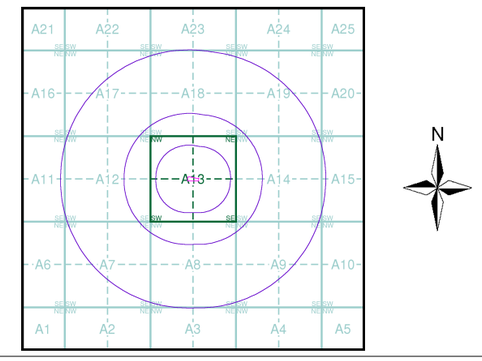
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

Estimated Soil Chemistry Cadmium - Slice A



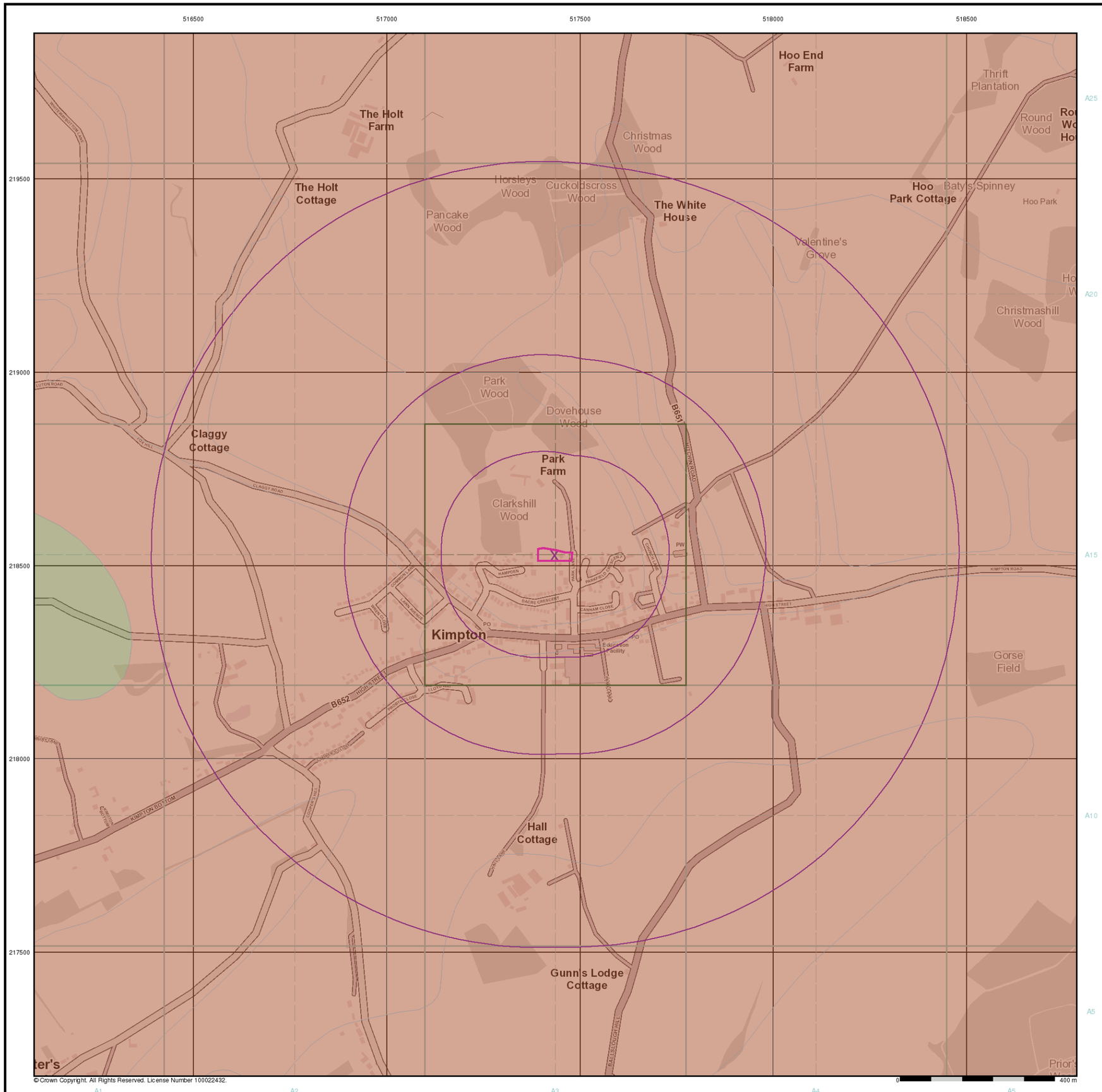
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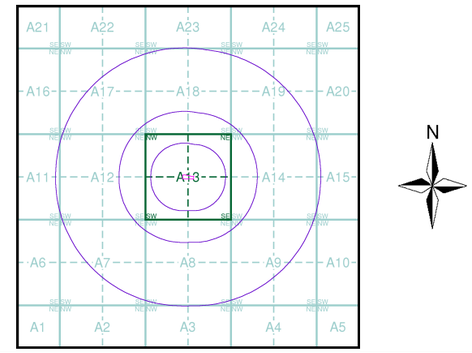
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Estimated Soil Chemistry Chromium - Slice A



Order Details

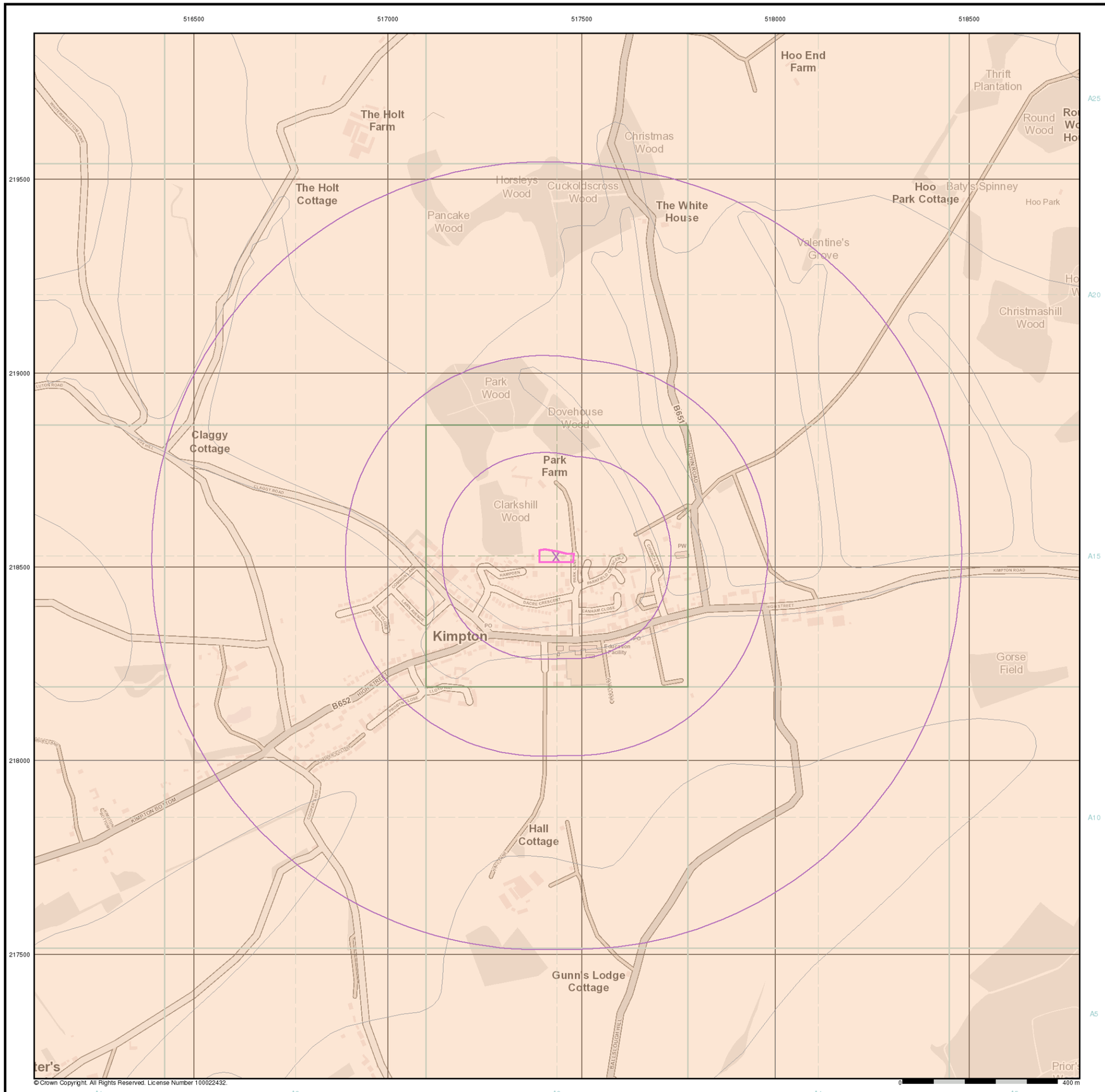
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General

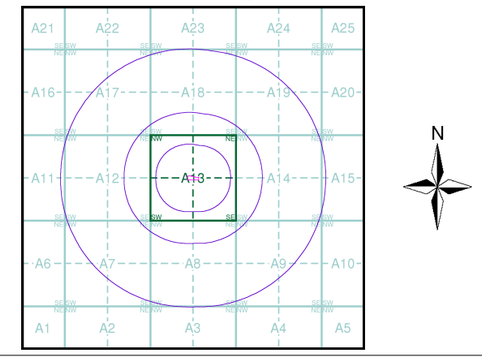
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- <100 mg/kg
- 100 - 200
- 200 - 300
- 300 - 600
- 600 - 1200
- >1200

Estimated Soil Chemistry Lead - Slice A



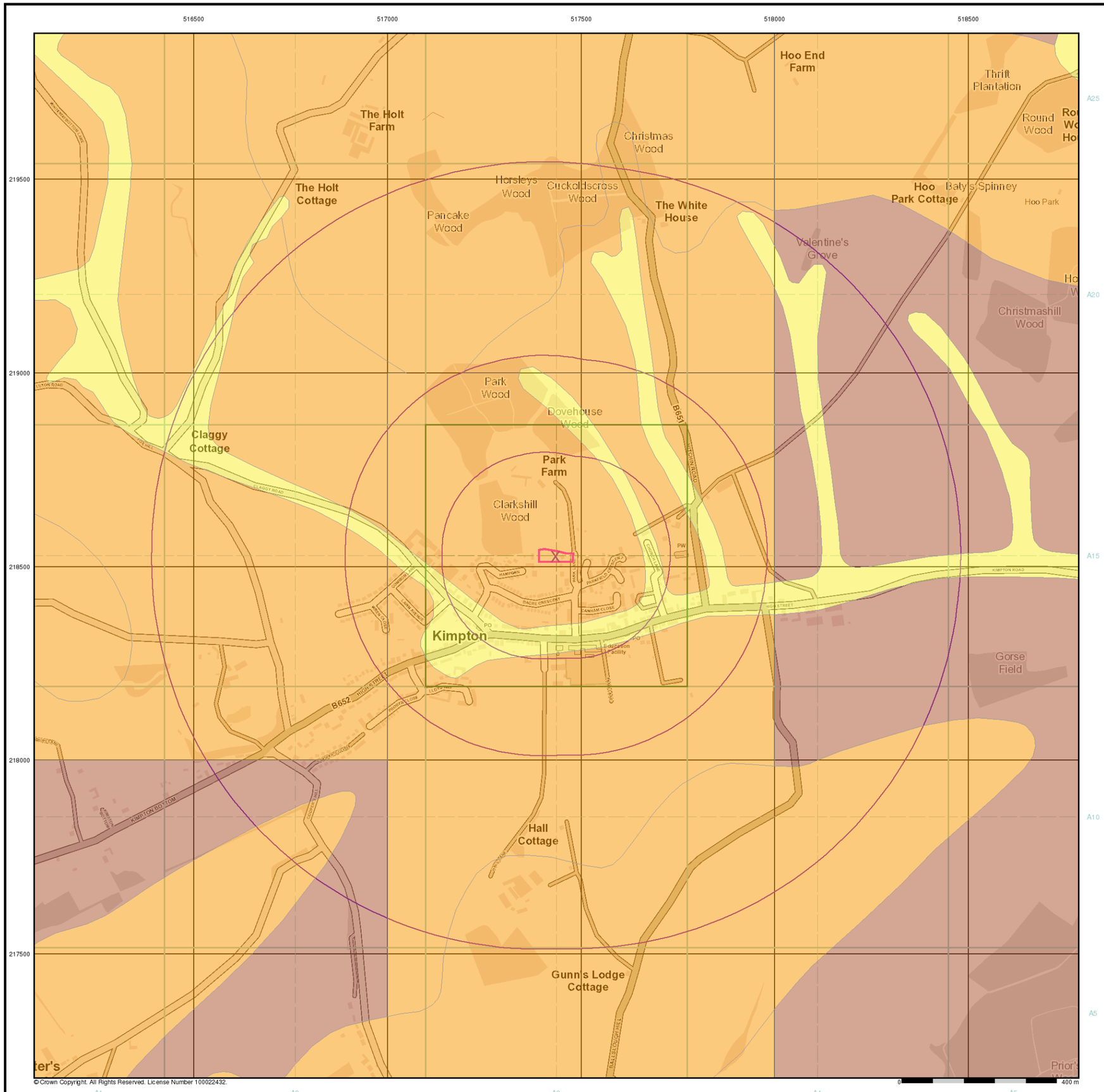
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General

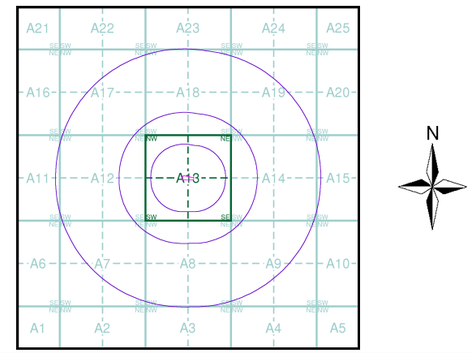
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Estimated Soil Chemistry Nickel - Slice A



Order Details

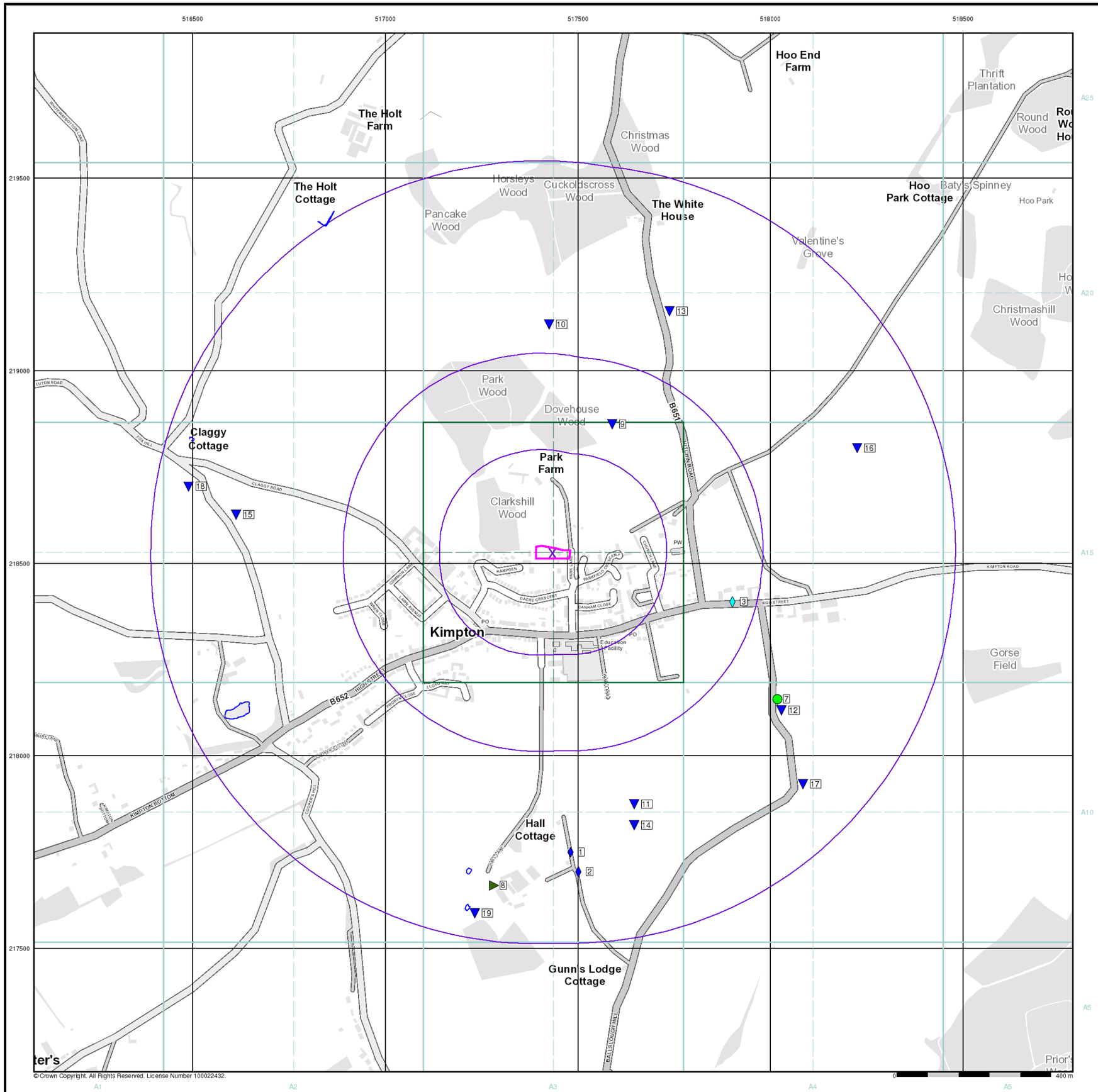
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General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

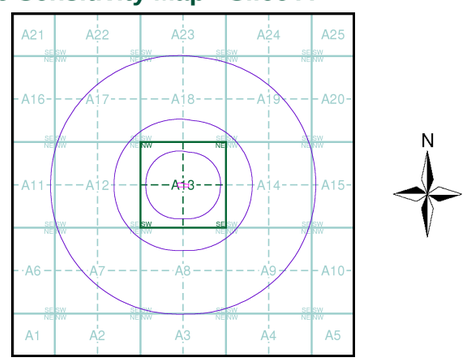
Geological

- BGS Recorded Mineral Site

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Slice A



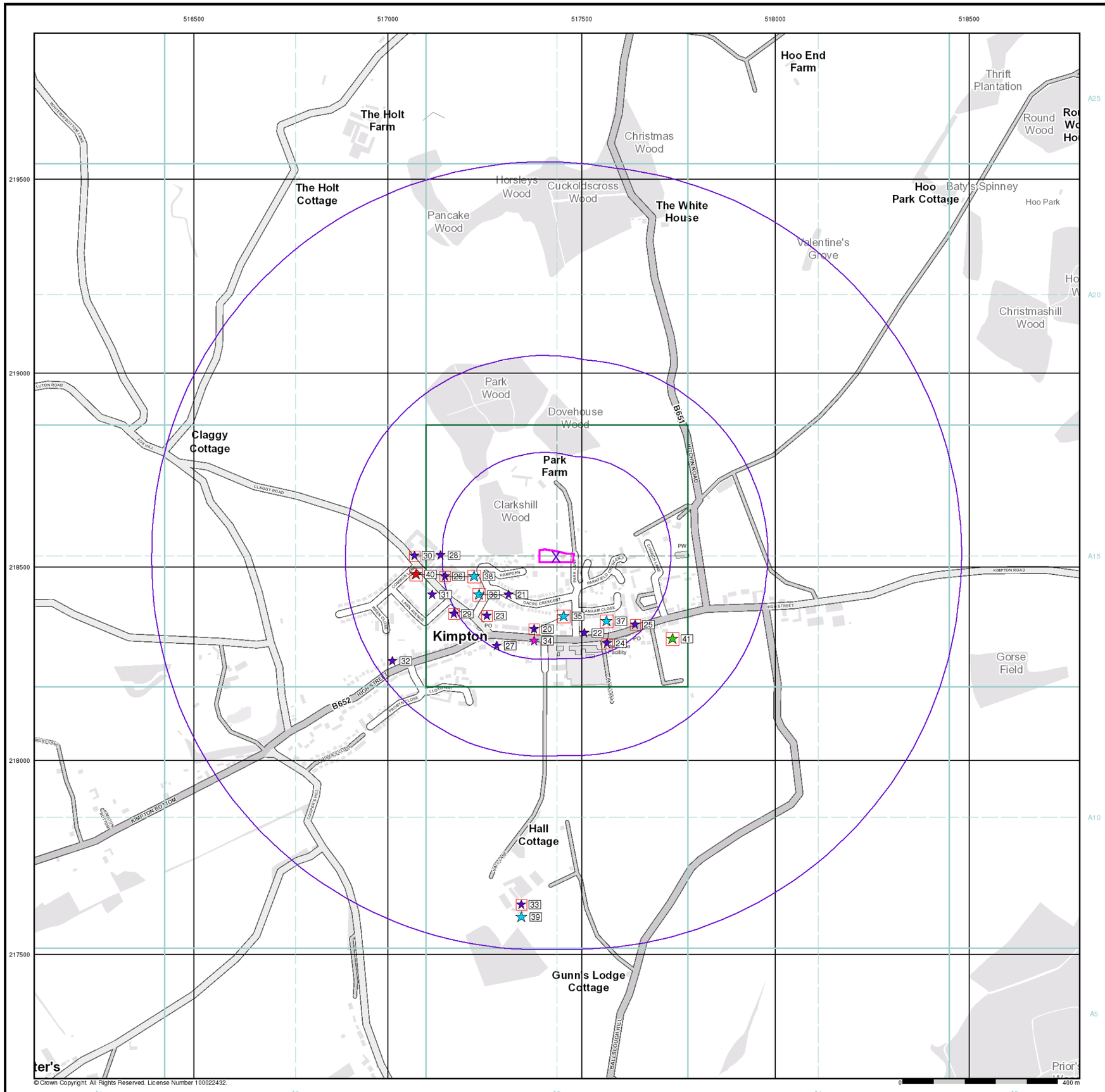
Order Details

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Slice:	A
Site Area (Ha):	0.24
Search Buffer (m):	1000

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Industrial Land Use Map

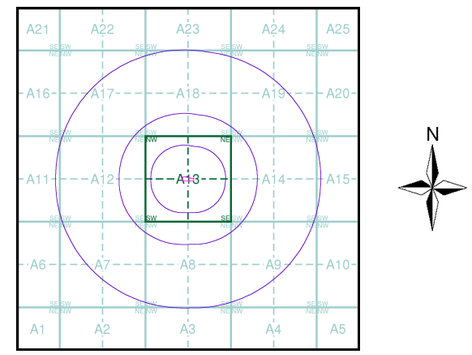
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice A



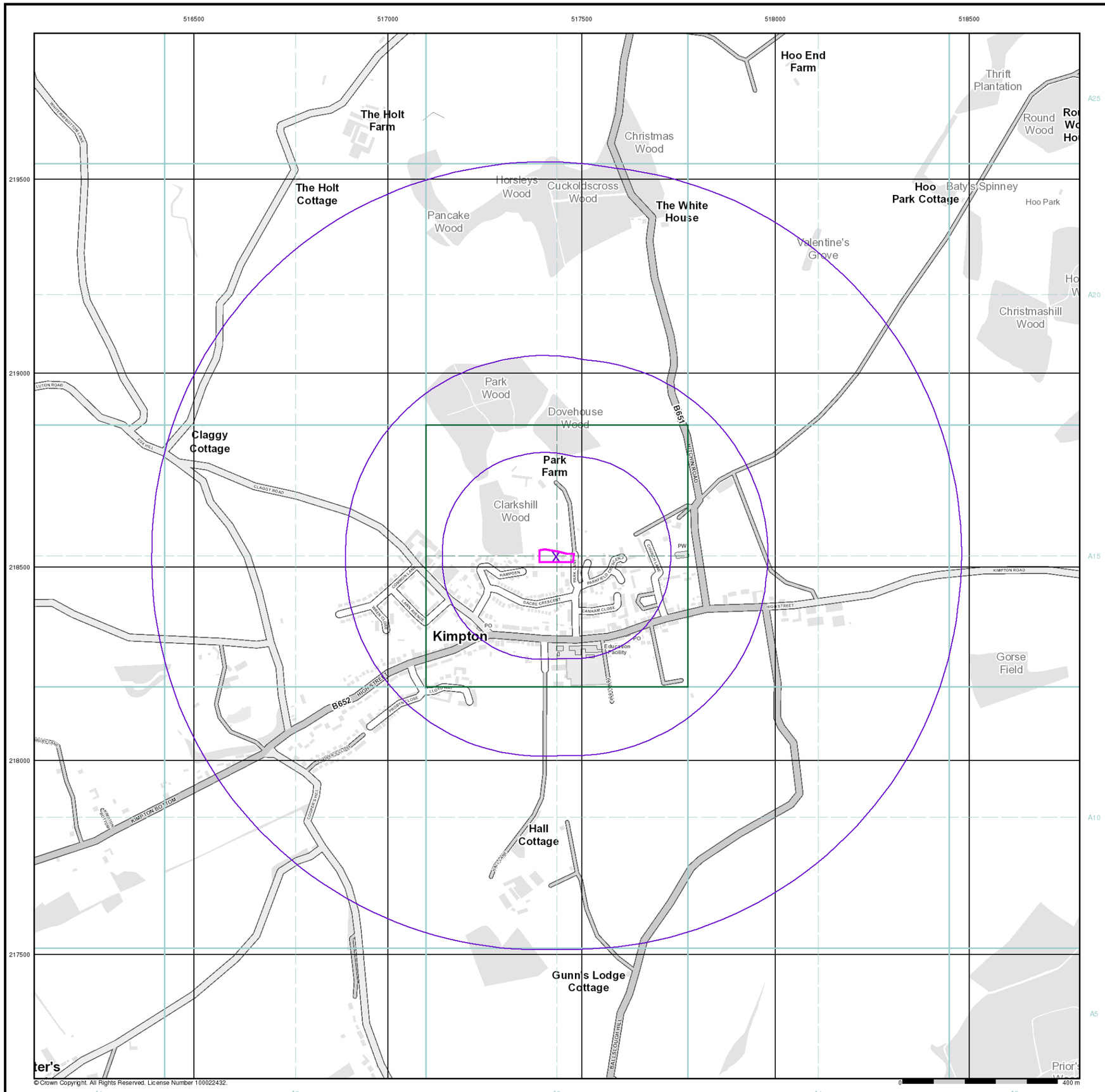
Order Details

Order Number:	150439532_1_1
Customer Ref:	52688
National Grid Reference:	517430, 218530
Slice:	A
Site Area (Ha):	0.24
Search Buffer (m):	1000

Site Details

White Cottage, Park Lane, Kimpton, HITCHIN, SG4 8EG

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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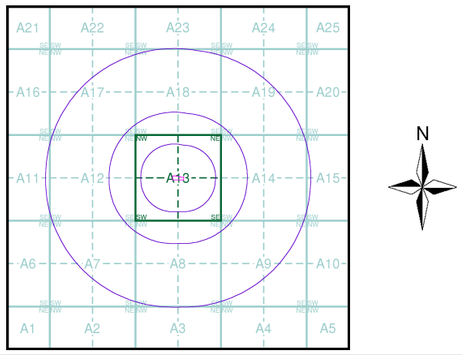
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A



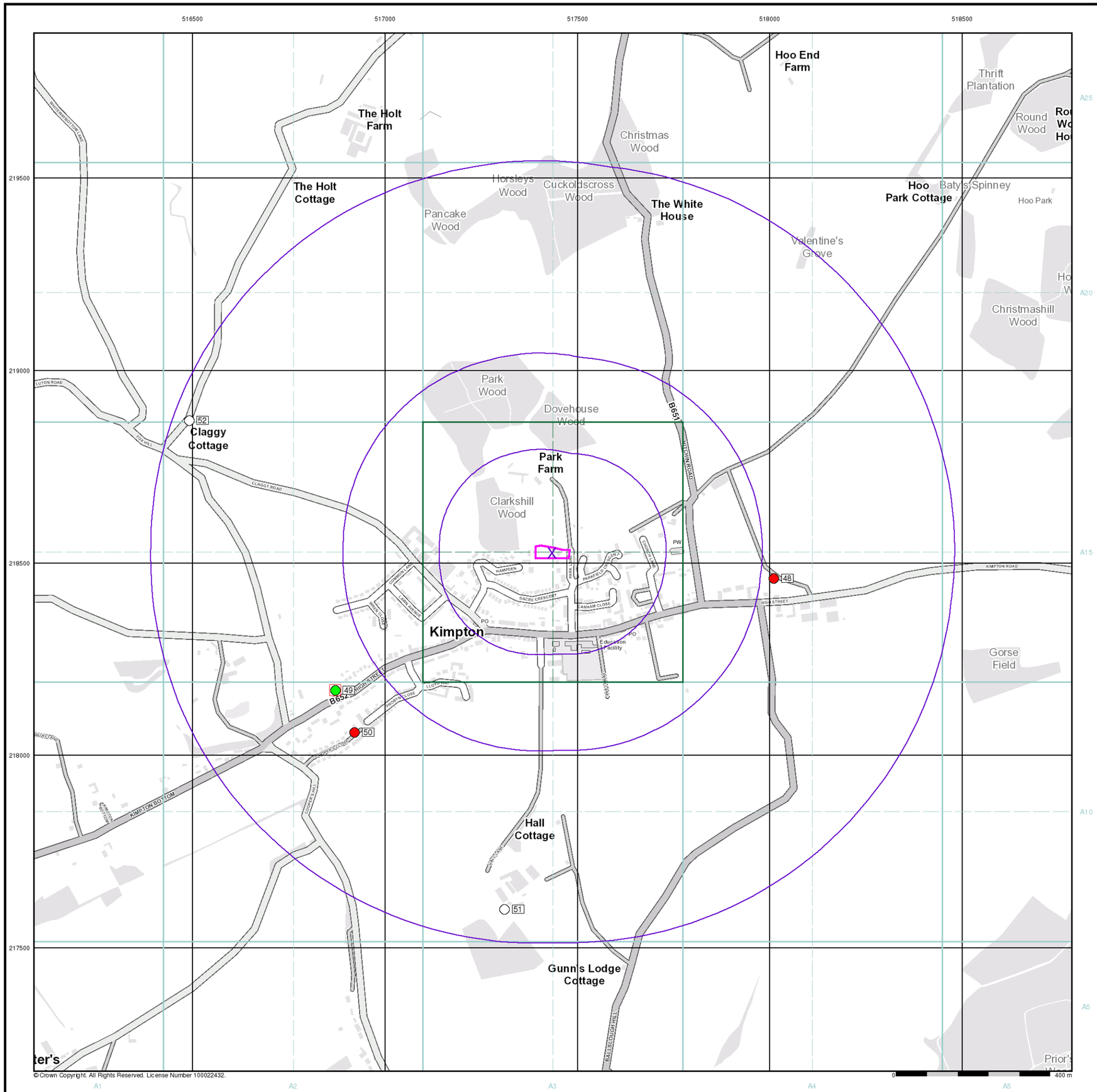
Order Details

Order Number:	150439532_1_1
Customer Ref:	52688
National Grid Reference:	517430, 218530
Slice:	A
Site Area (Ha):	0.24
Search Buffer (m):	1000

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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

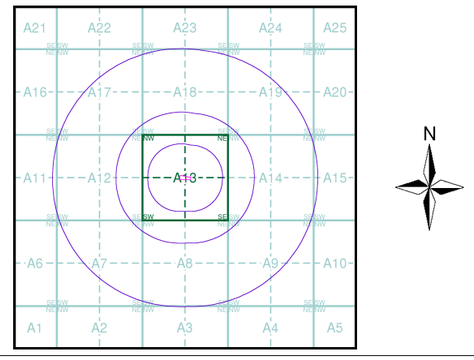
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A



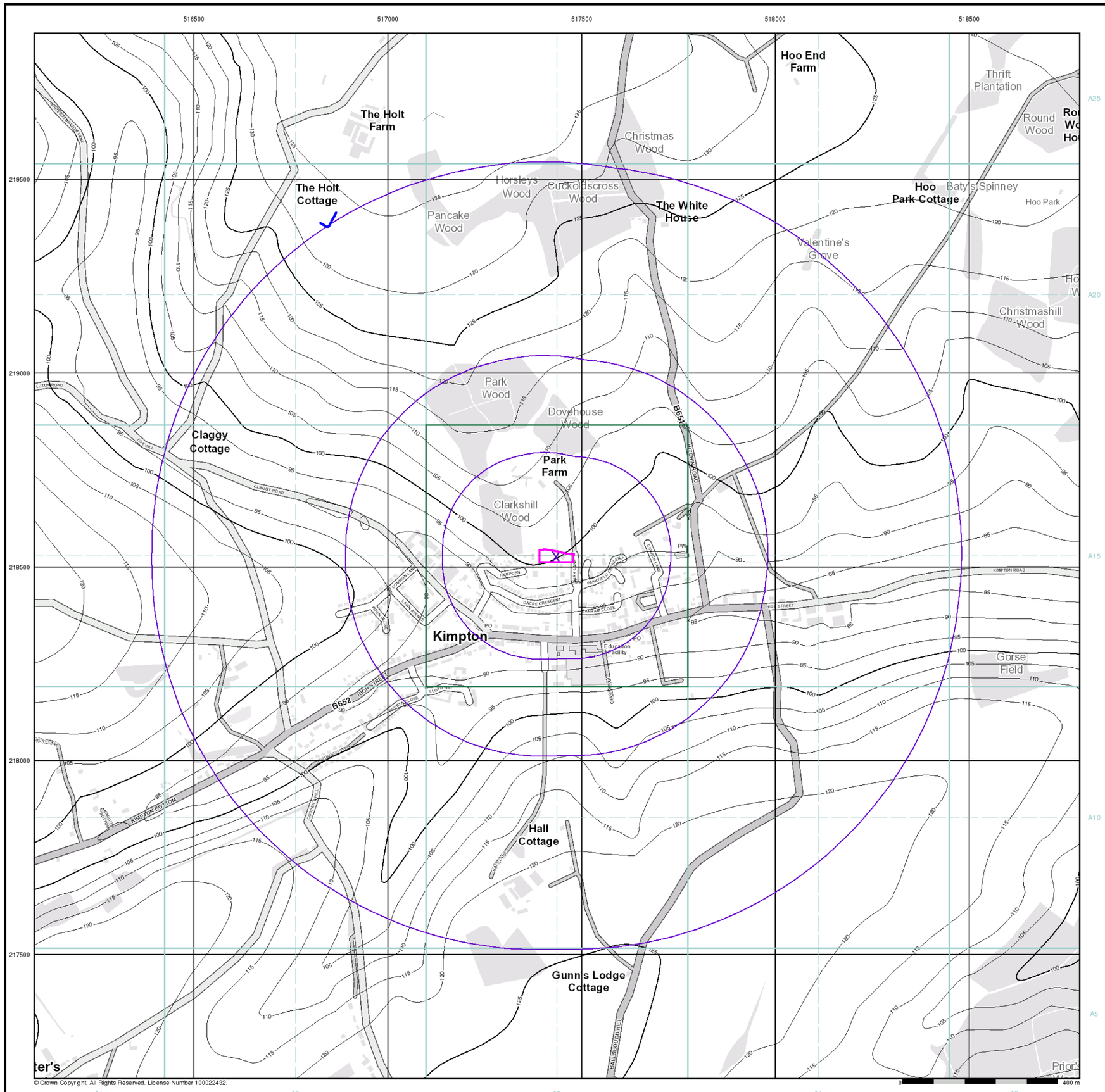
Order Details

Order Number:	150439532_1_1
Customer Ref:	52688
National Grid Reference:	517430, 218530
Slice:	A
Site Area (Ha):	0.24
Search Buffer (m):	1000

Site Details

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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

OS Water Network Data

- Canal
- Reservoir
- Foreshore
- Marsh
- Tidal River
- Inland River
- Drain
- Other
- Lake
- Transfer
- Lock Or Flight Of Locks
- Sea

Contours (height in meters)

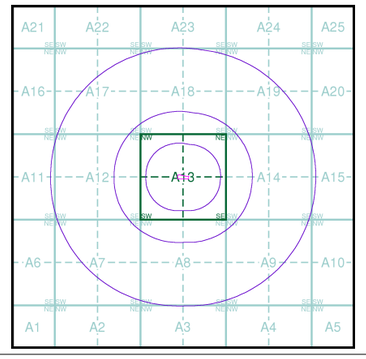
Standard Contour 105 100 95

Master Contour

Spot Height 167.3

- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



Order Details

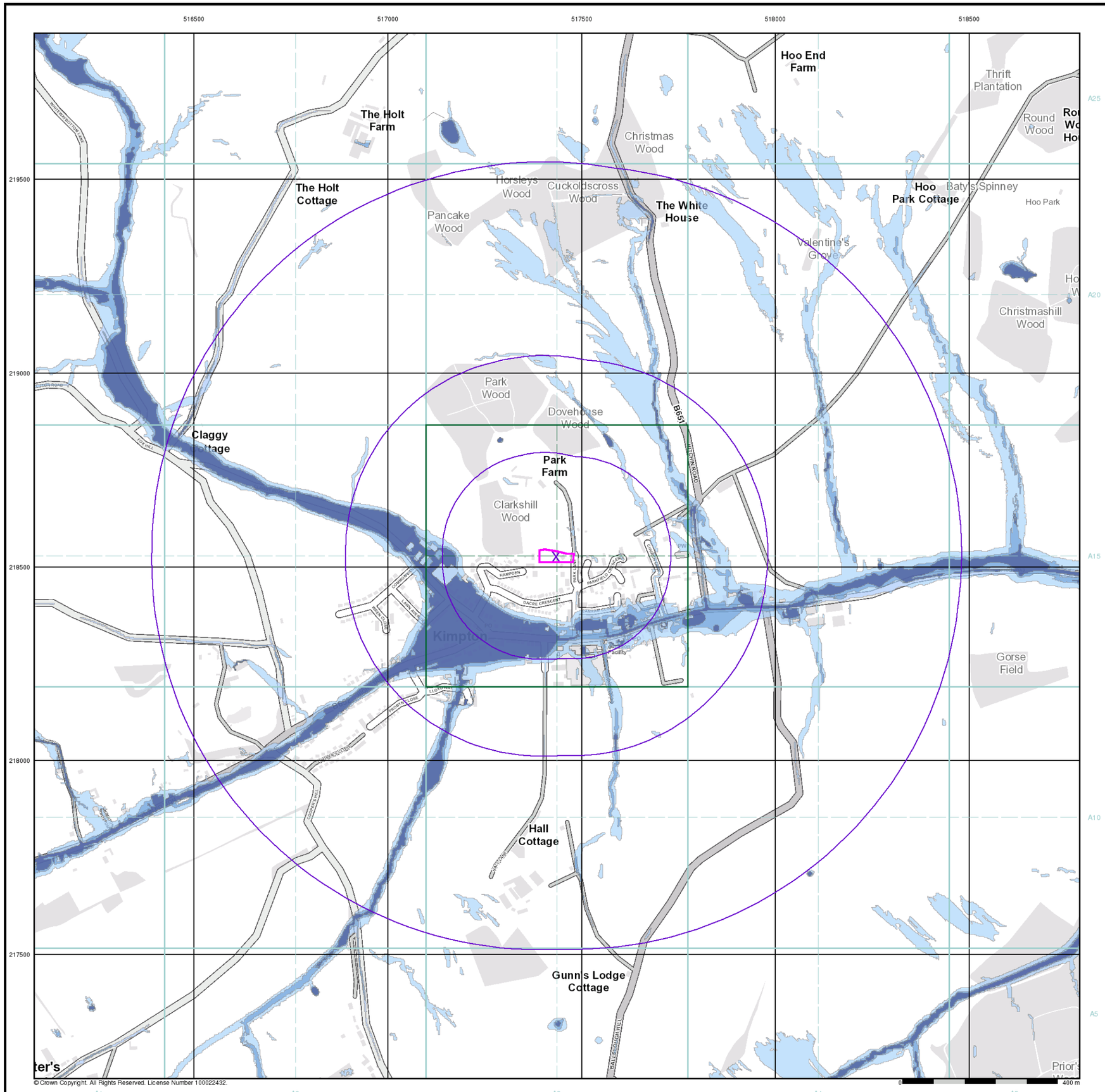
Order Number:	150439532_1_1
Customer Ref:	52688
National Grid Reference:	517430, 218530
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Site Area (Ha):	0.24
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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Risk of Flooding from Surface Water

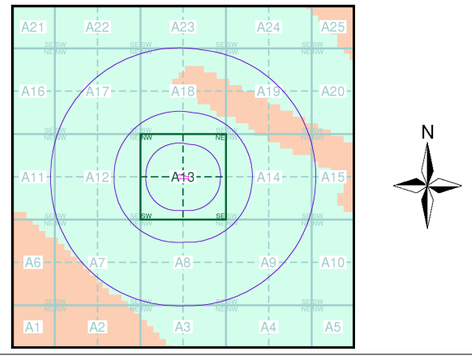
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EA/NRW Suitability Map - Slice A



Order Details

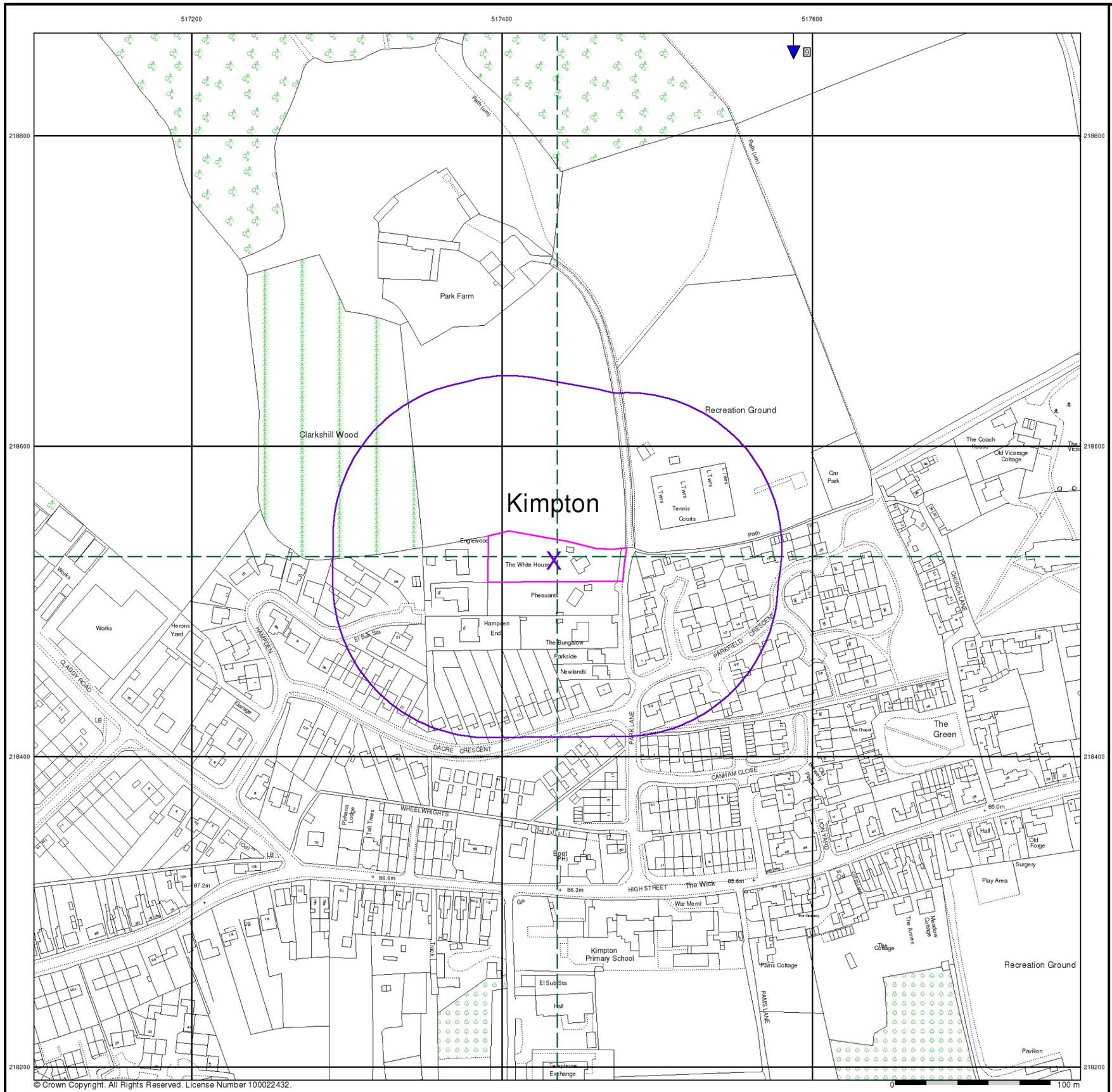
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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location
- Pylon
- Overhead Transmission Line

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

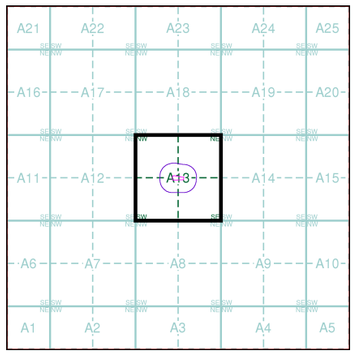
Geological

- BGS Recorded Mineral Site

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Segment A13



Order Details

Order Number:	150439532_1_1
Customer Ref:	52688
National Grid Reference:	517430, 218530
Slice:	A
Site Area (Ha):	0.24
Plot Buffer (m):	100

Site Details

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
·285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Electricity Transmission Line
Pole
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

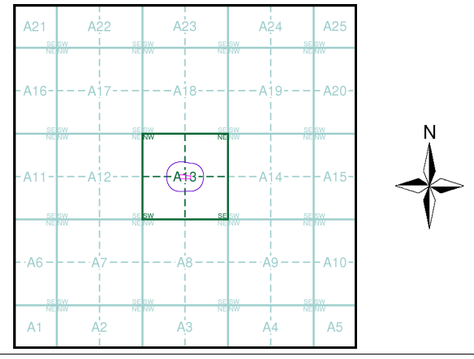
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Hertfordshire	1:10,560	1884	2
Bedfordshire	1:10,560	1885	3
Hertfordshire	1:10,560	1899	4
Bedfordshire	1:10,560	1901	5
Bedfordshire	1:10,560	1925	6
Hertfordshire	1:10,560	1925	7
Bedfordshire	1:10,560	1947	8
Historical Aerial Photography	1:10,560	1949	9
Hertfordshire	1:10,560	1950	10
Ordnance Survey Plan	1:10,000	1960	11
Ordnance Survey Plan	1:10,000	1975	12
10K Raster Mapping	1:10,000	1999	13
10K Raster Mapping	1:10,000	2006	14
VectorMap Local	1:10,000	2017	15

Historical Map - Slice A



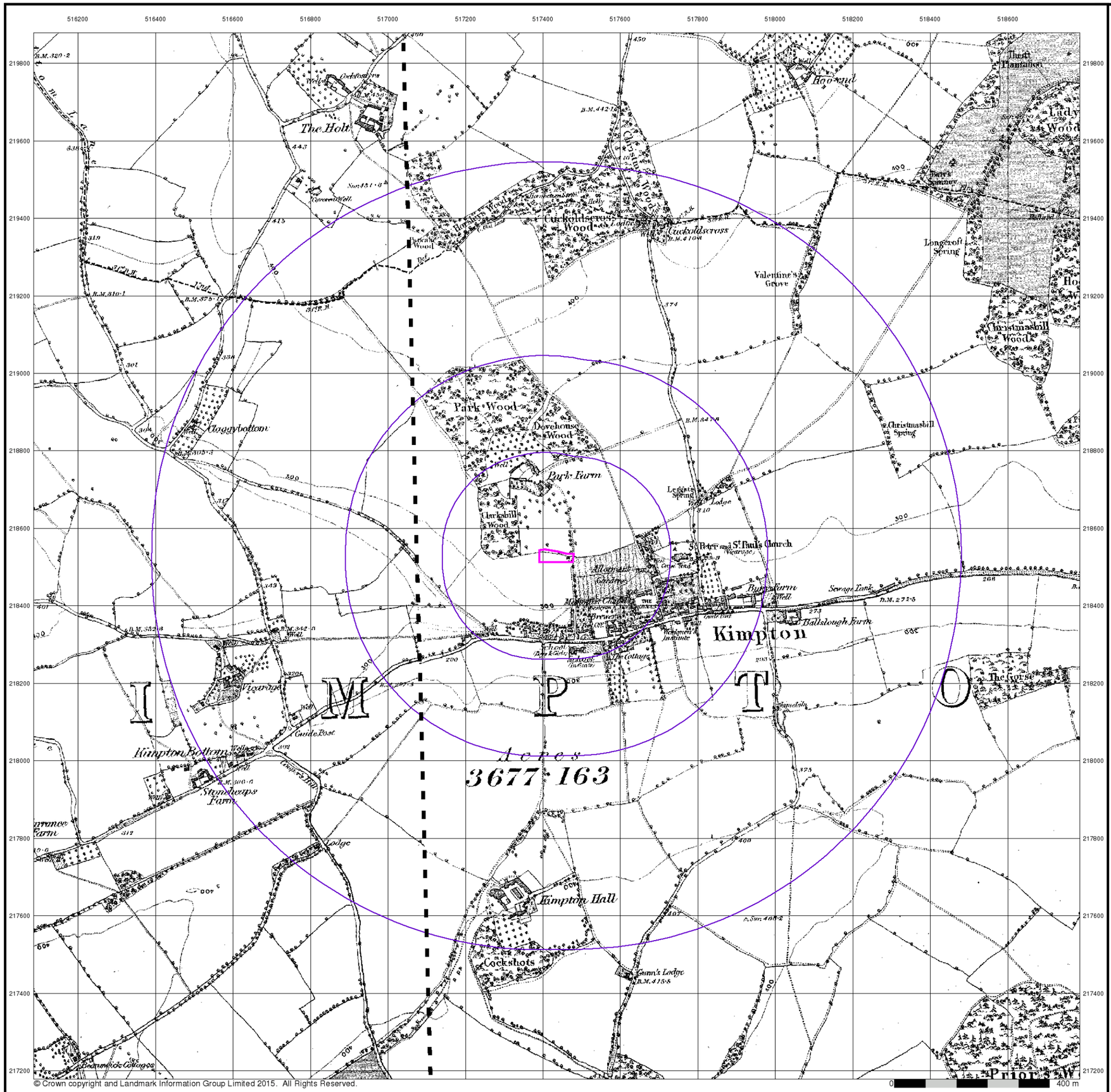
Order Details

Order Number: 150439532_1_1
Customer Ref: 52688
National Grid Reference: 517430, 218530
Slice: A
Site Area (Ha): 0.24
Search Buffer (m): 1000

Site Details

White Cottage, Park Lane, Kimpton, HITCHIN, SG4 8EG

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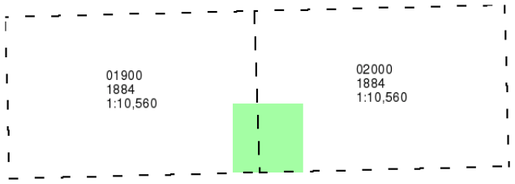
Hertfordshire

Published 1884

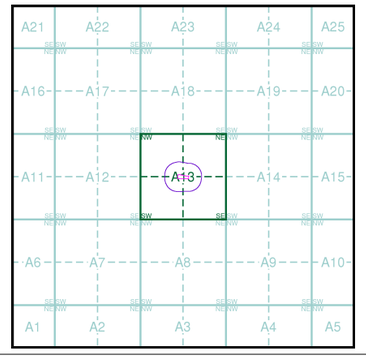
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



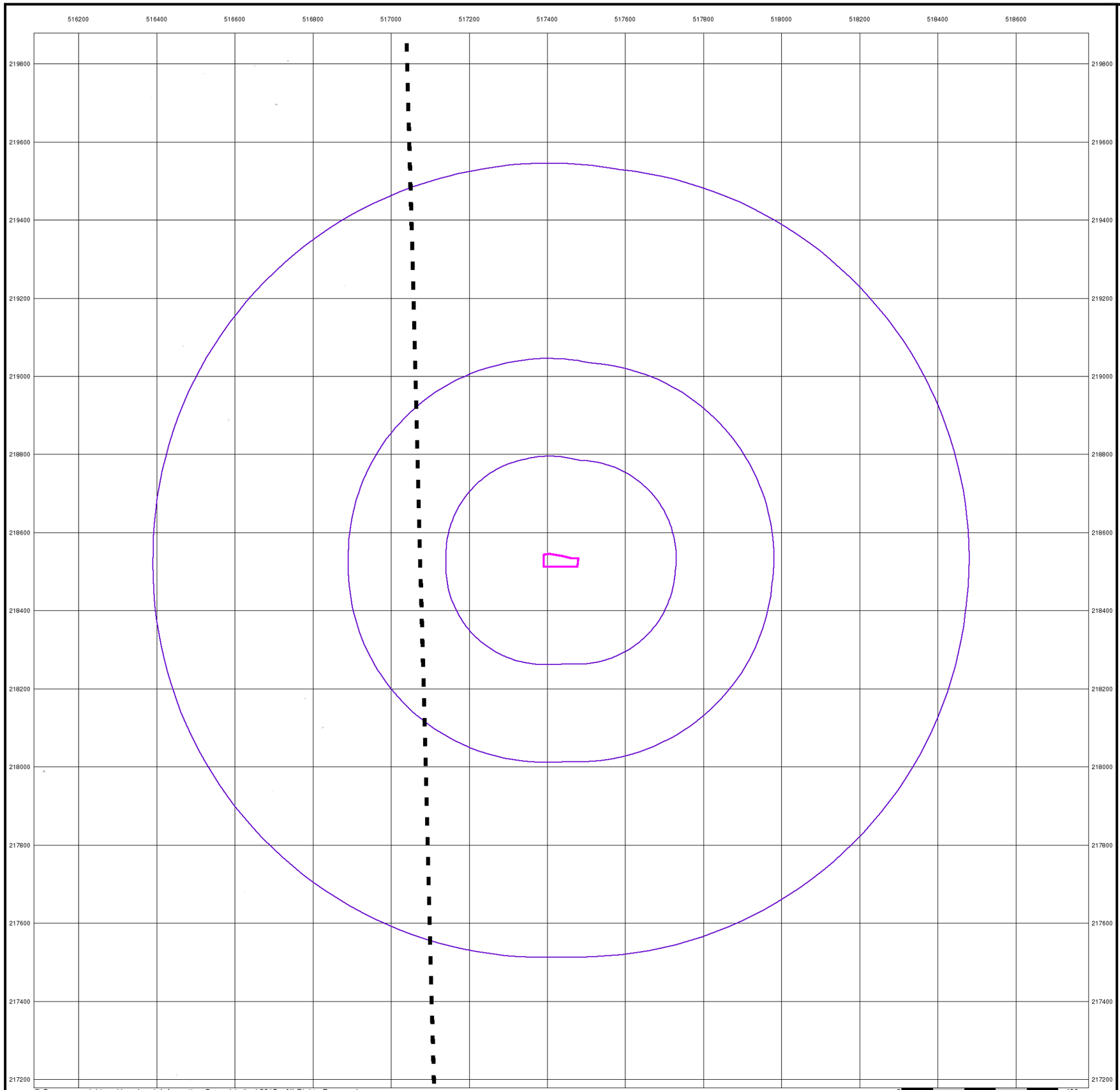
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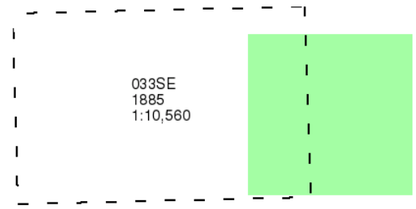
Bedfordshire

Published 1885

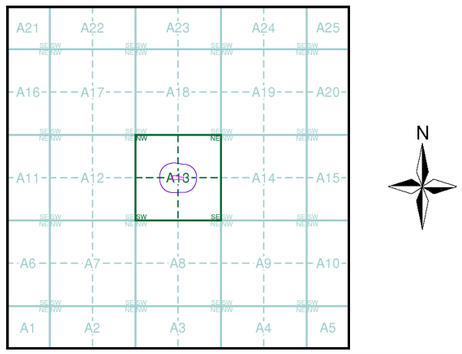
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

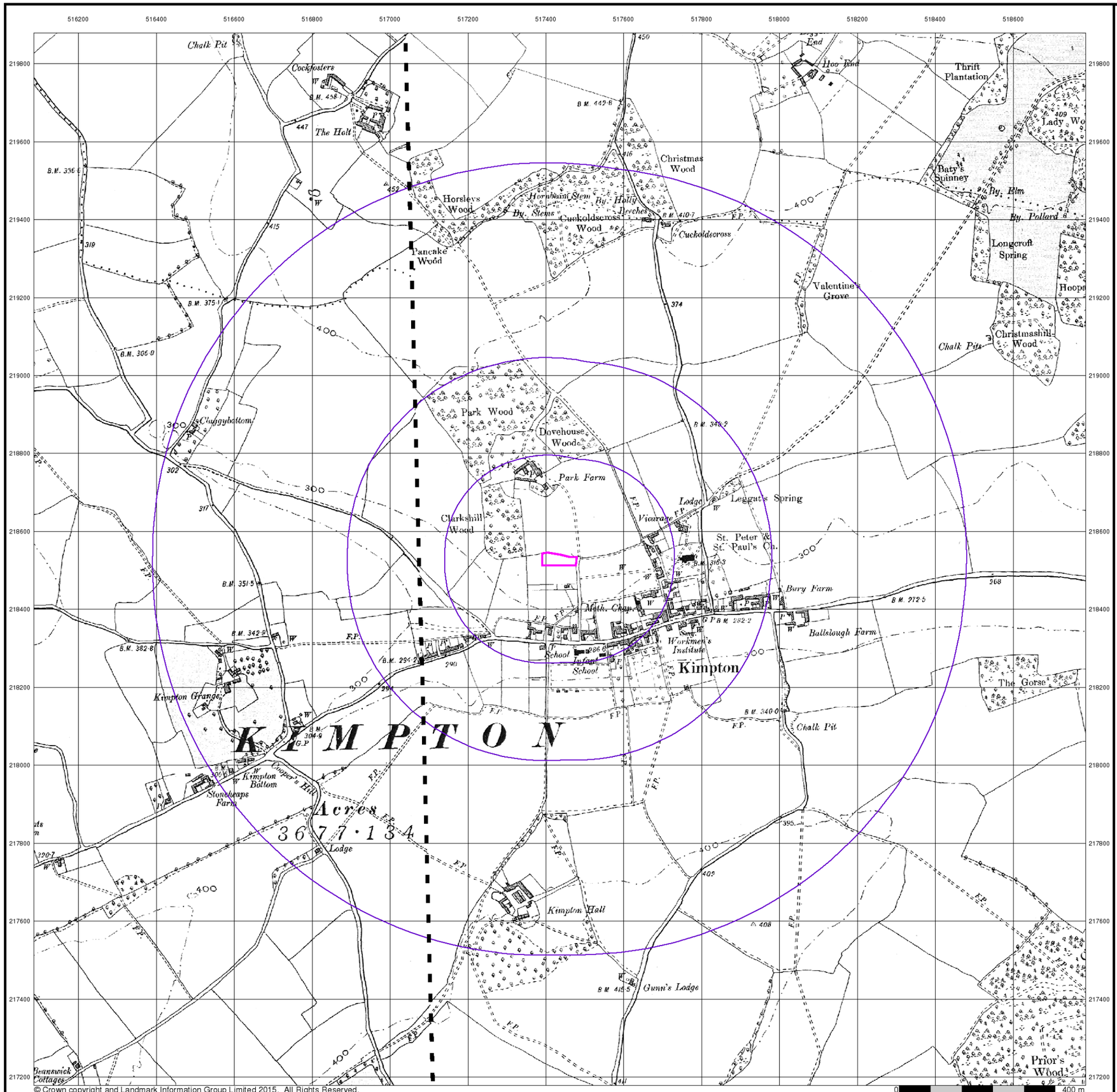
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Customer Ref:	52688
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Site Area (Ha):	0.24
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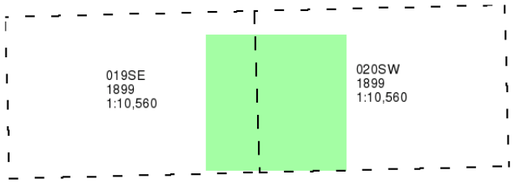
Hertfordshire

Published 1899

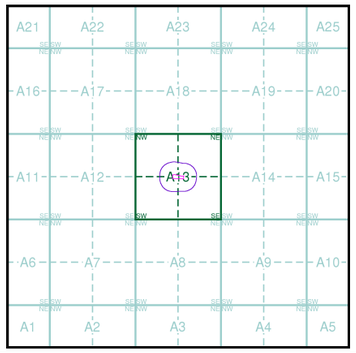
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



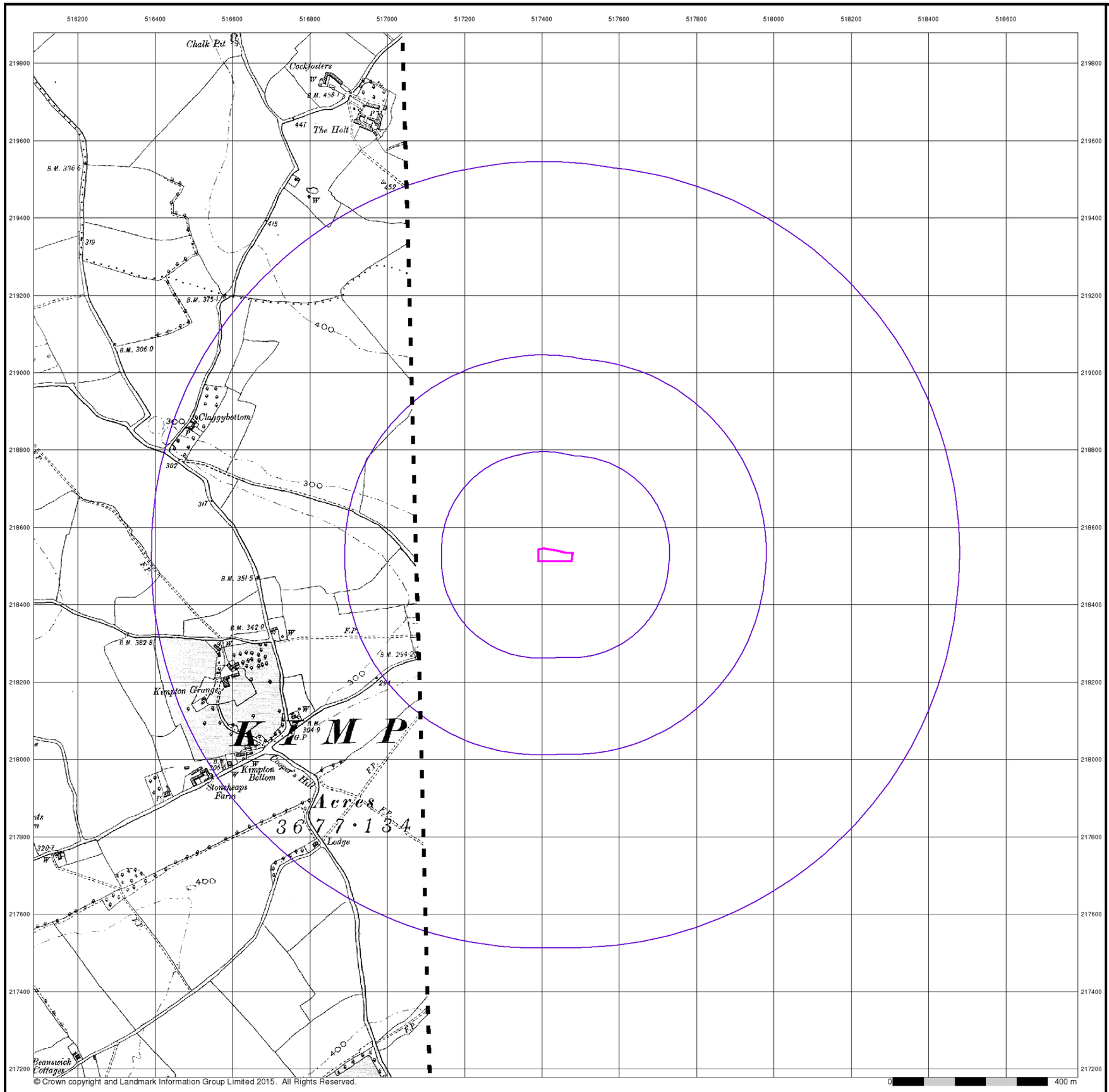
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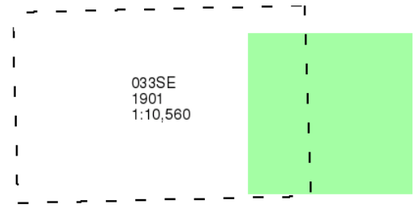
Bedfordshire

Published 1901

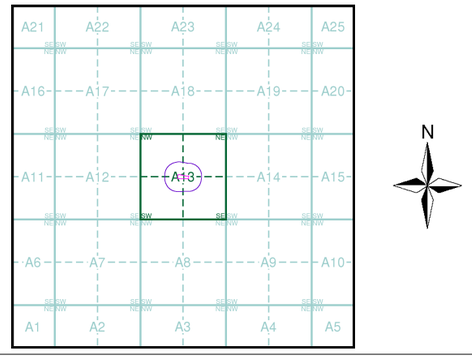
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



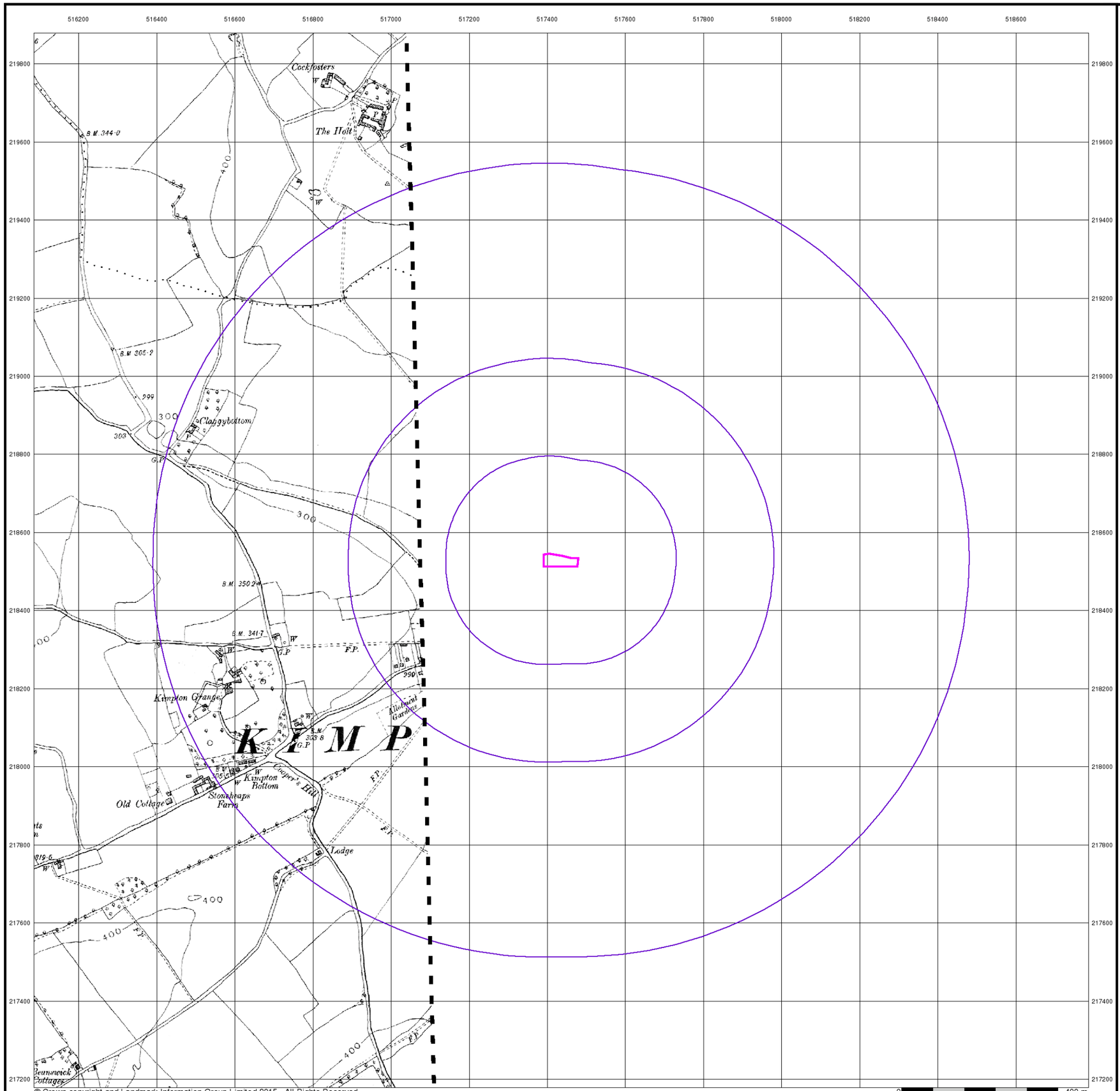
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Search Buffer (m):	1000

Site Details

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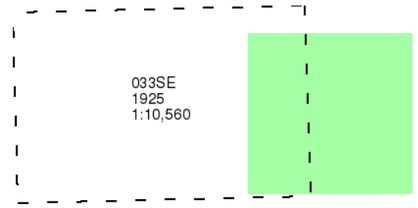
Bedfordshire

Published 1925

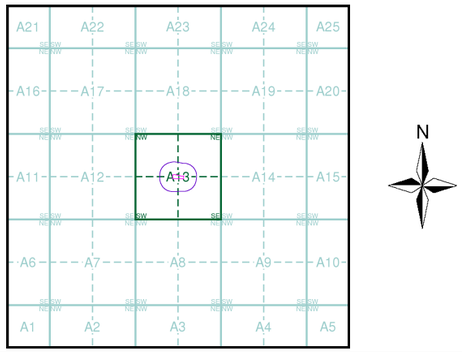
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



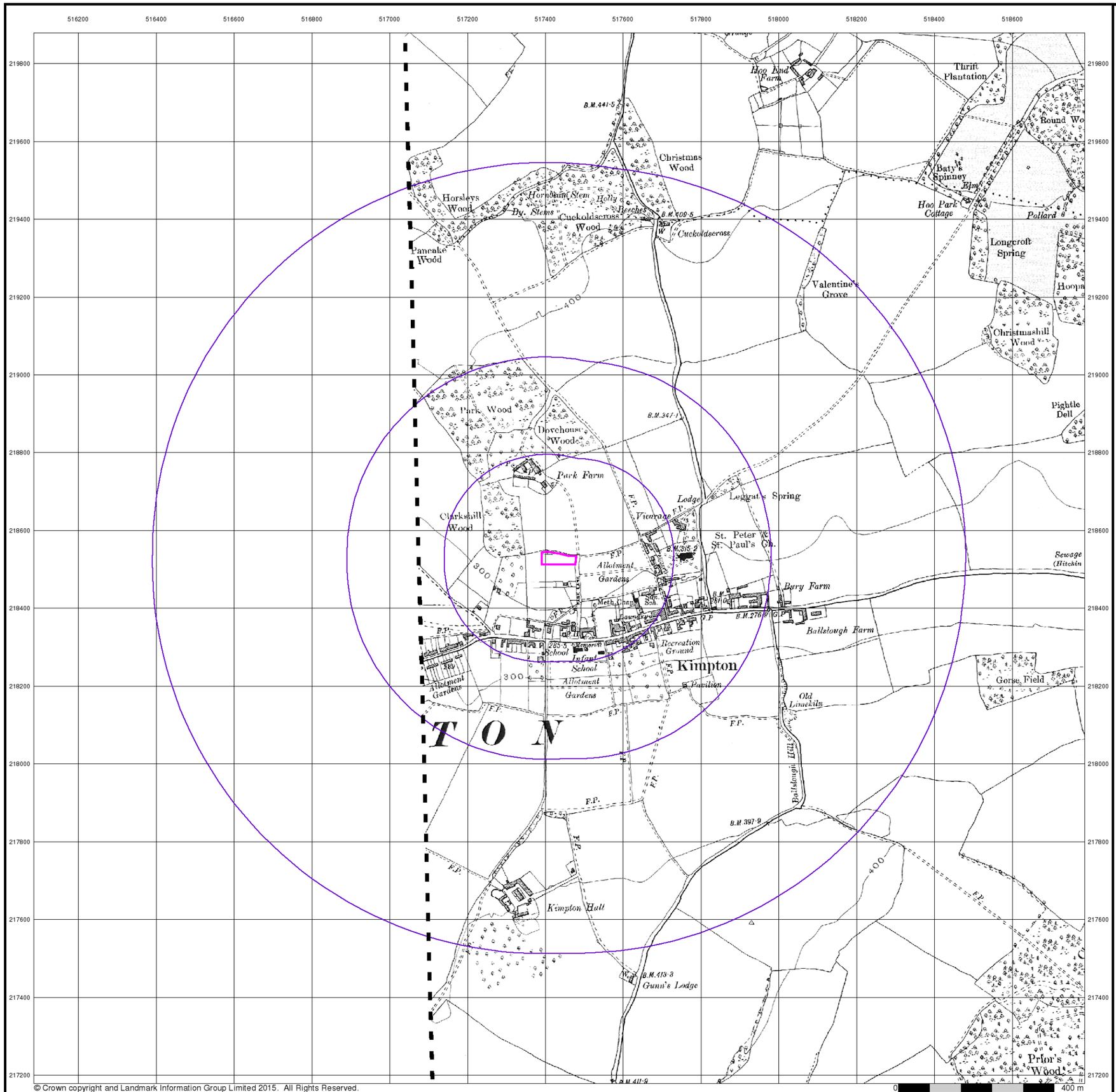
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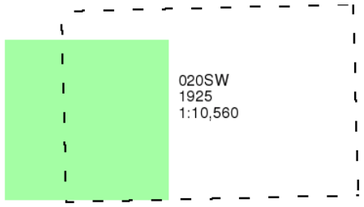
Hertfordshire

Published 1925

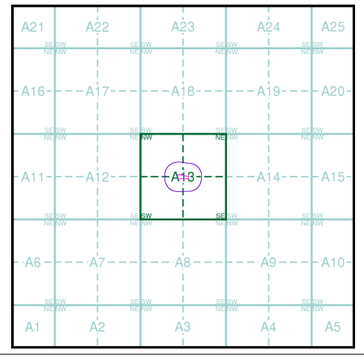
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Map Name(s) and Date(s)



Historical Map - Slice A



N

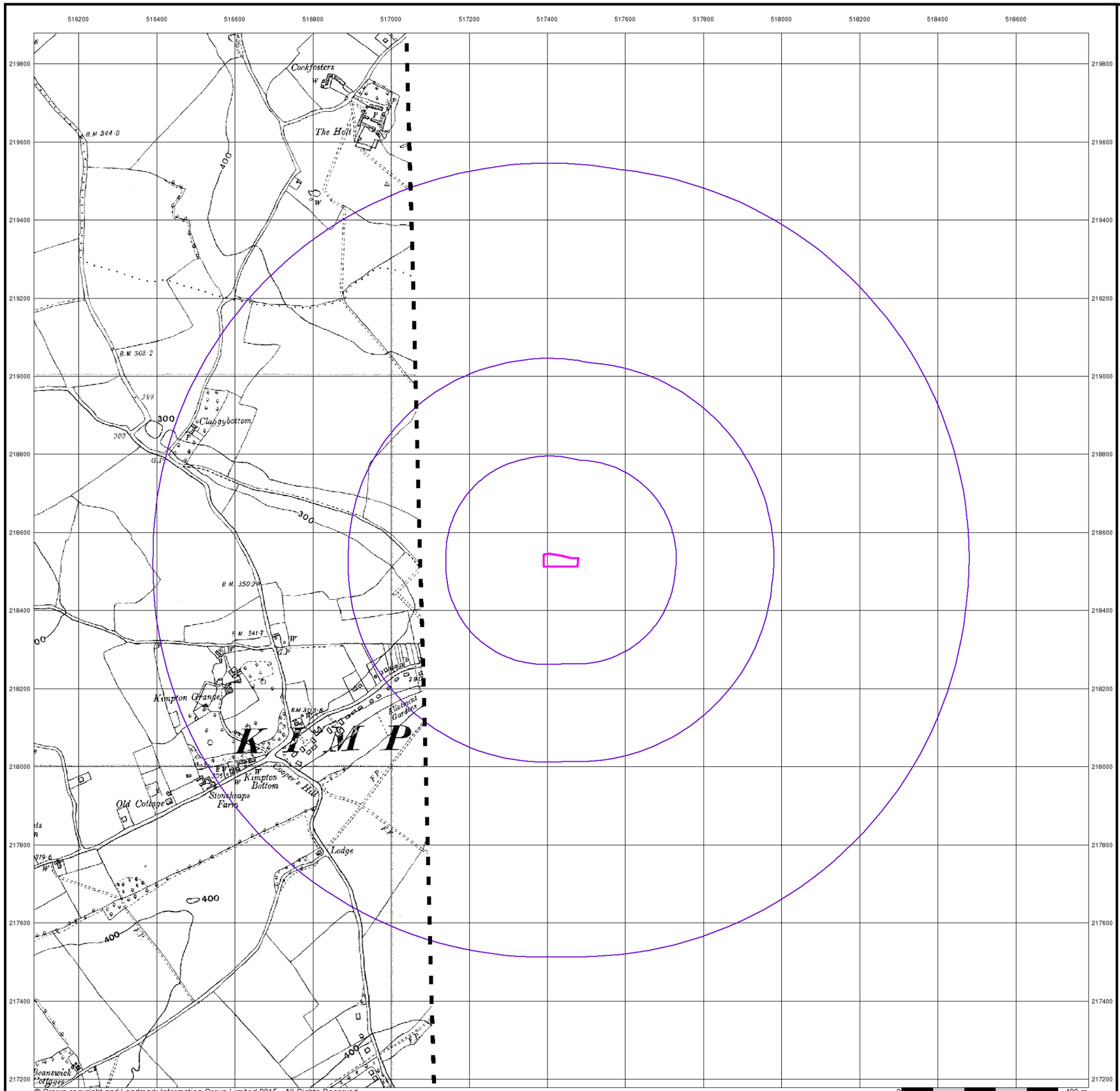
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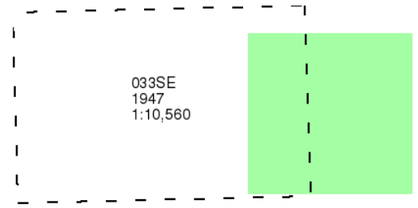
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Published 1947

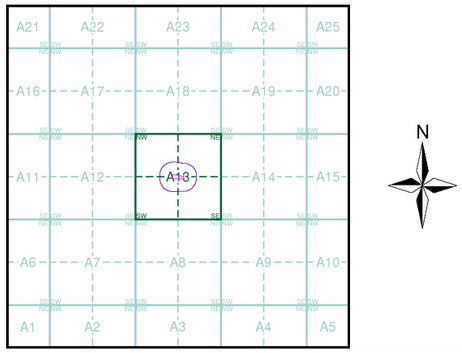
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



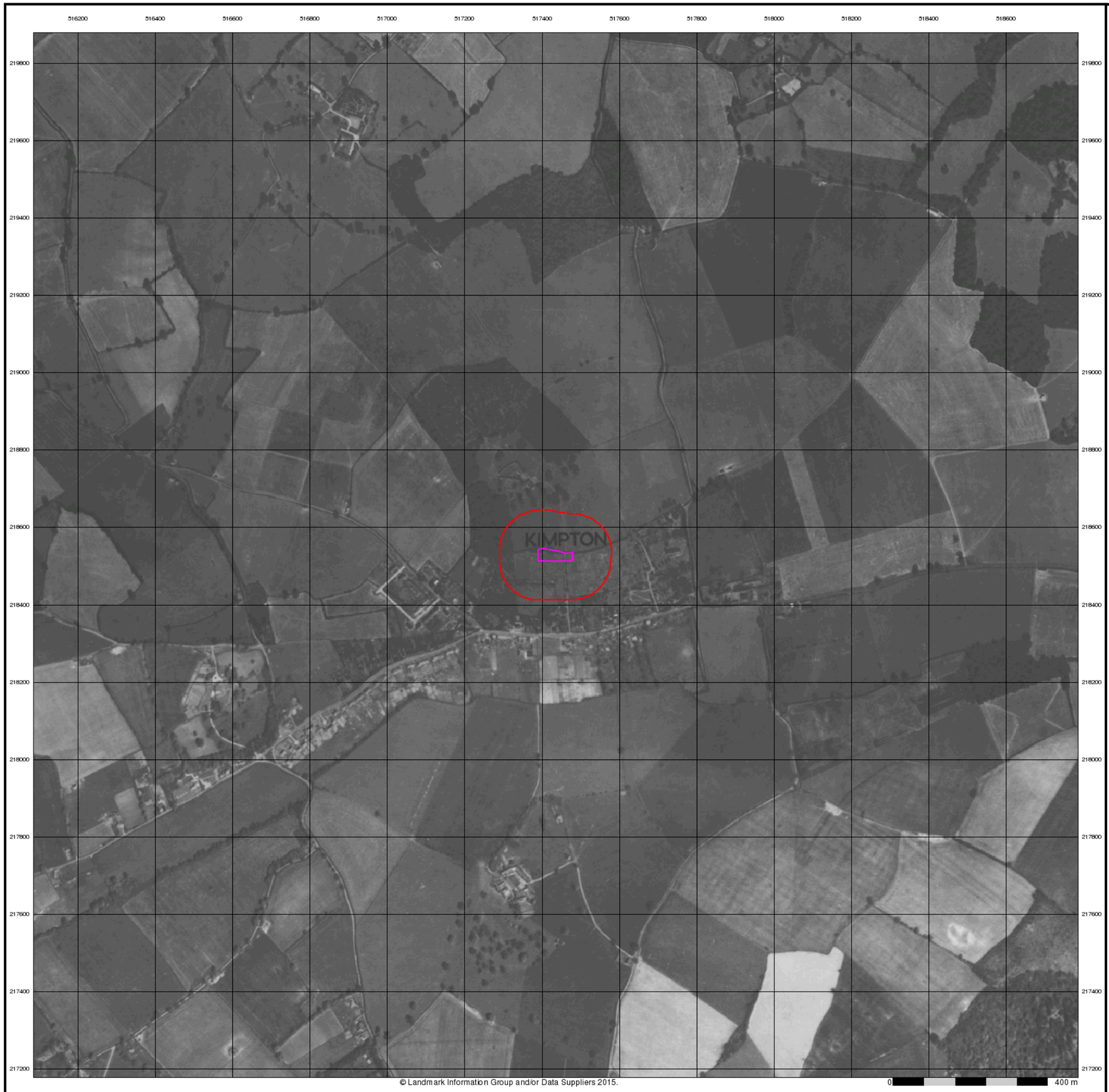
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Historical Aerial Photography

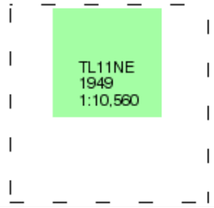
Published 1949

Source map scale - 1:10,560

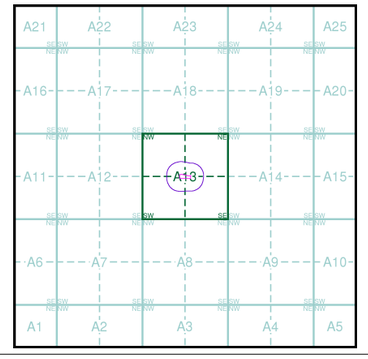
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

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Map Name(s) and Date(s)



Historical Aerial Photography - Slice A



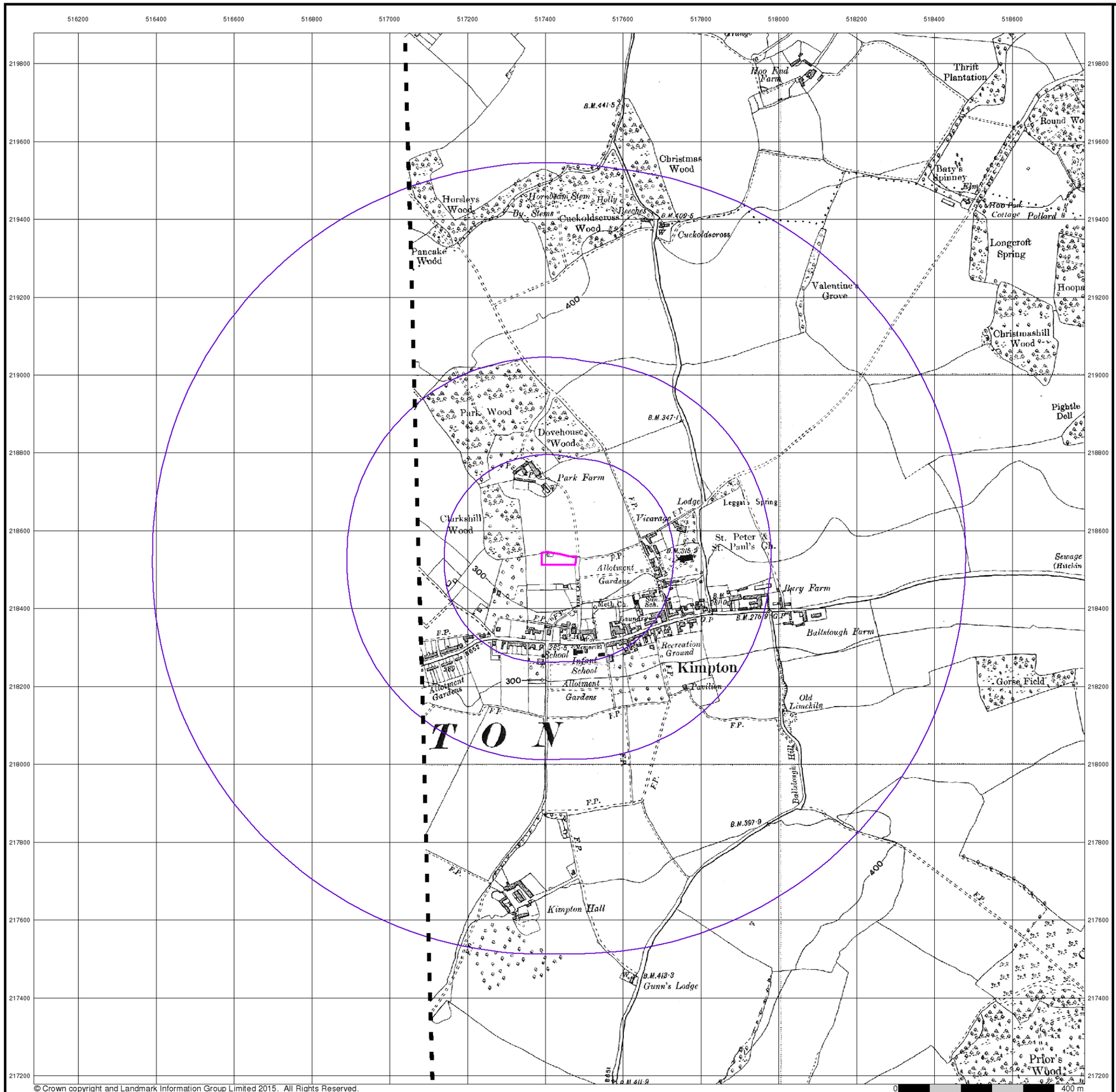
Order Details

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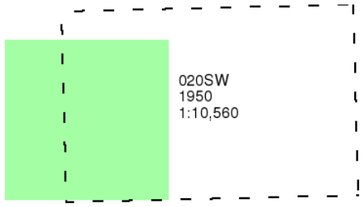
Hertfordshire

Published 1950

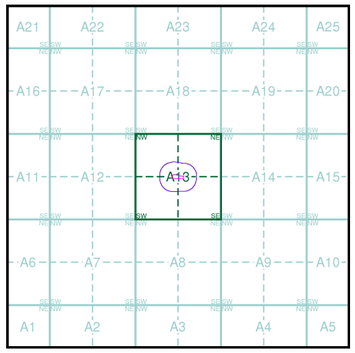
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

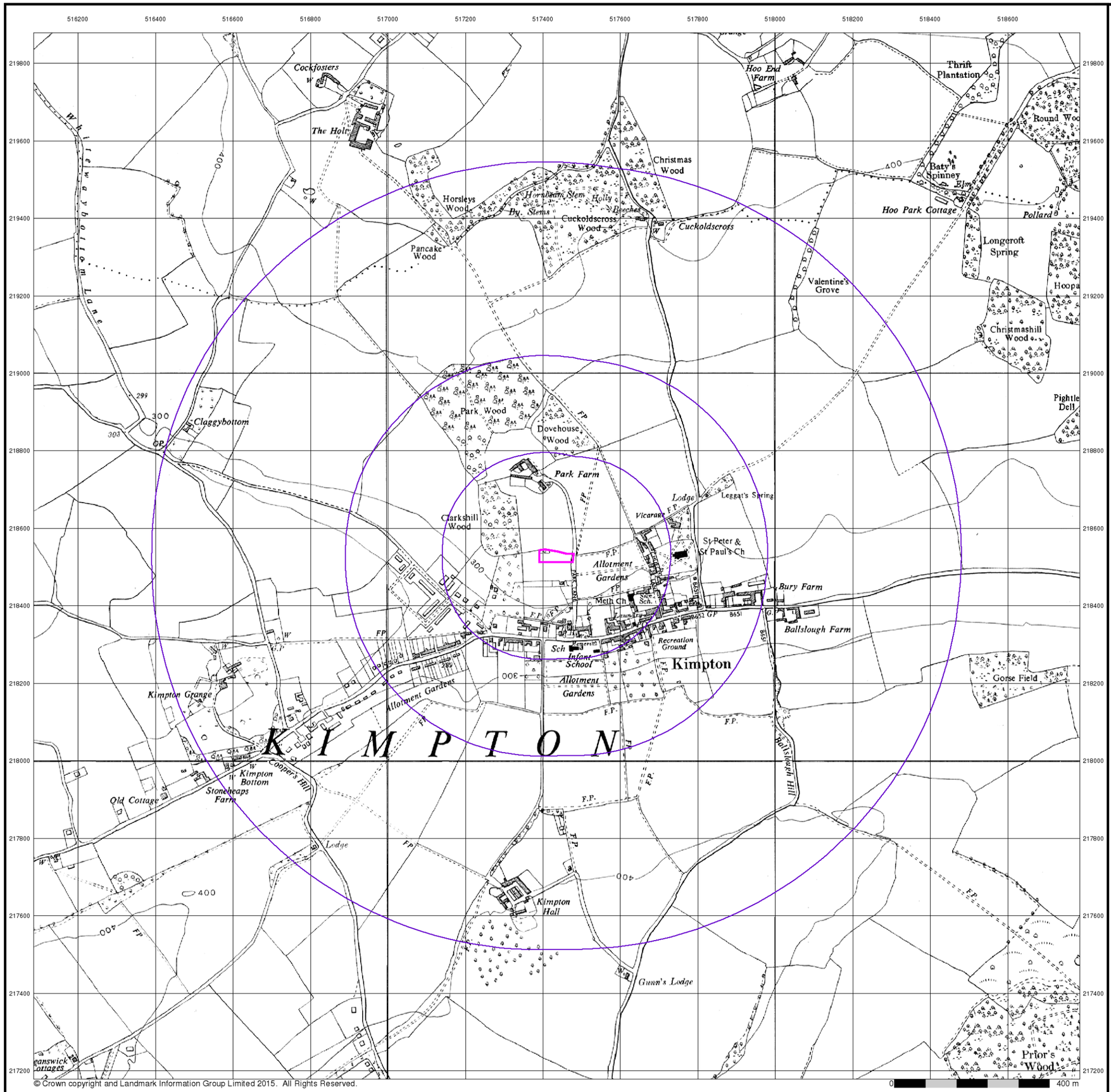
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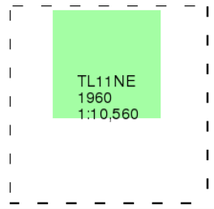
Ordnance Survey Plan

Published 1960

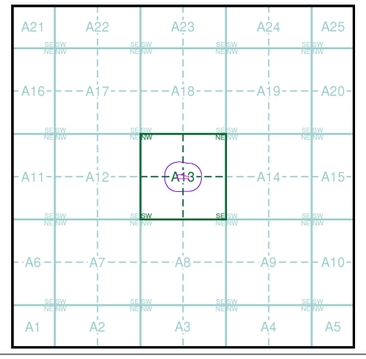
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



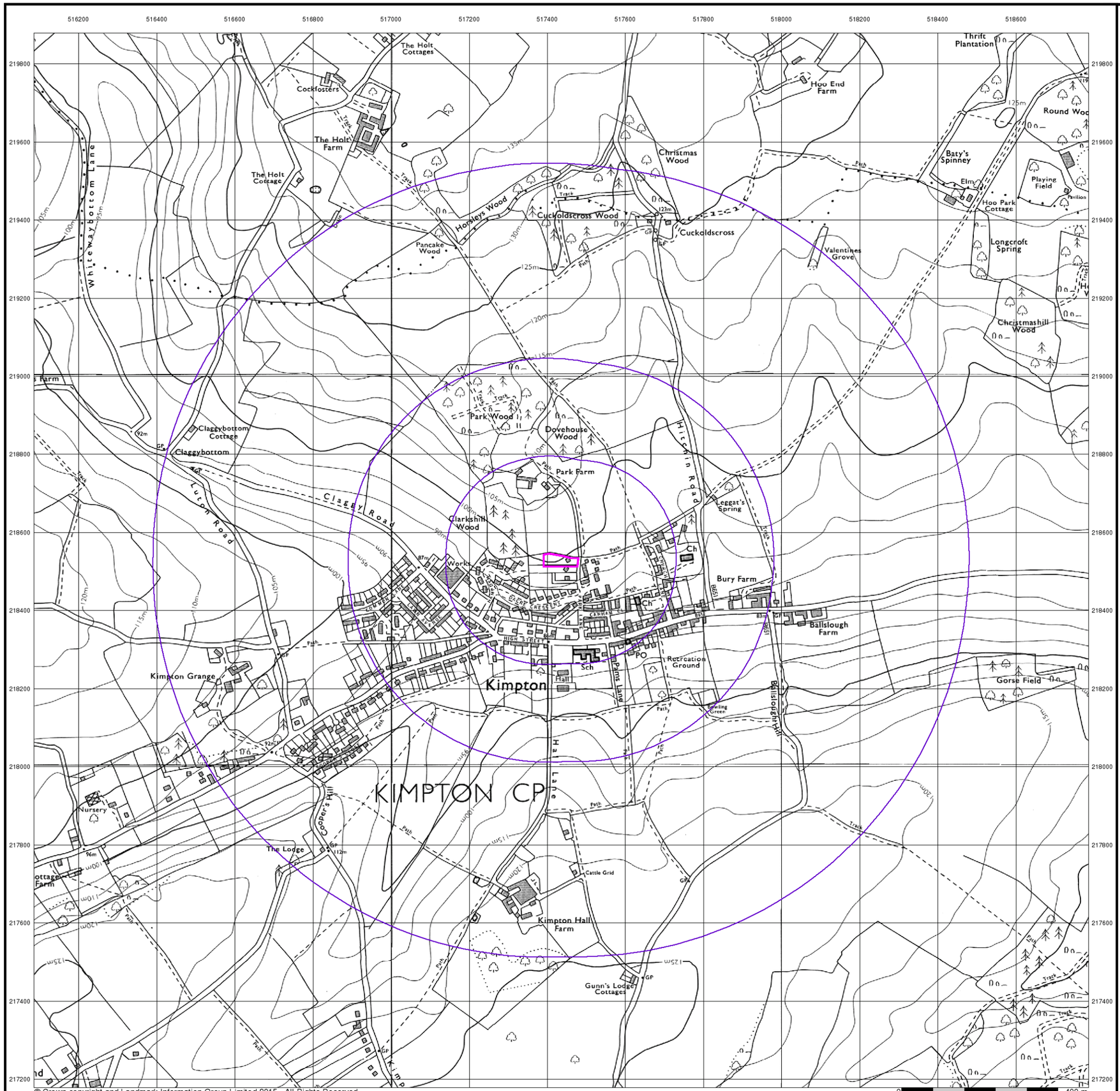
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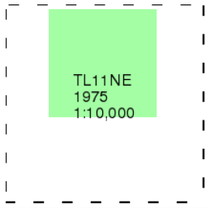
Ordnance Survey Plan

Published 1975

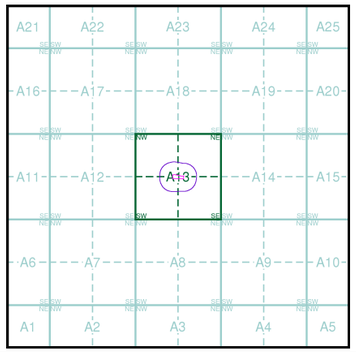
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



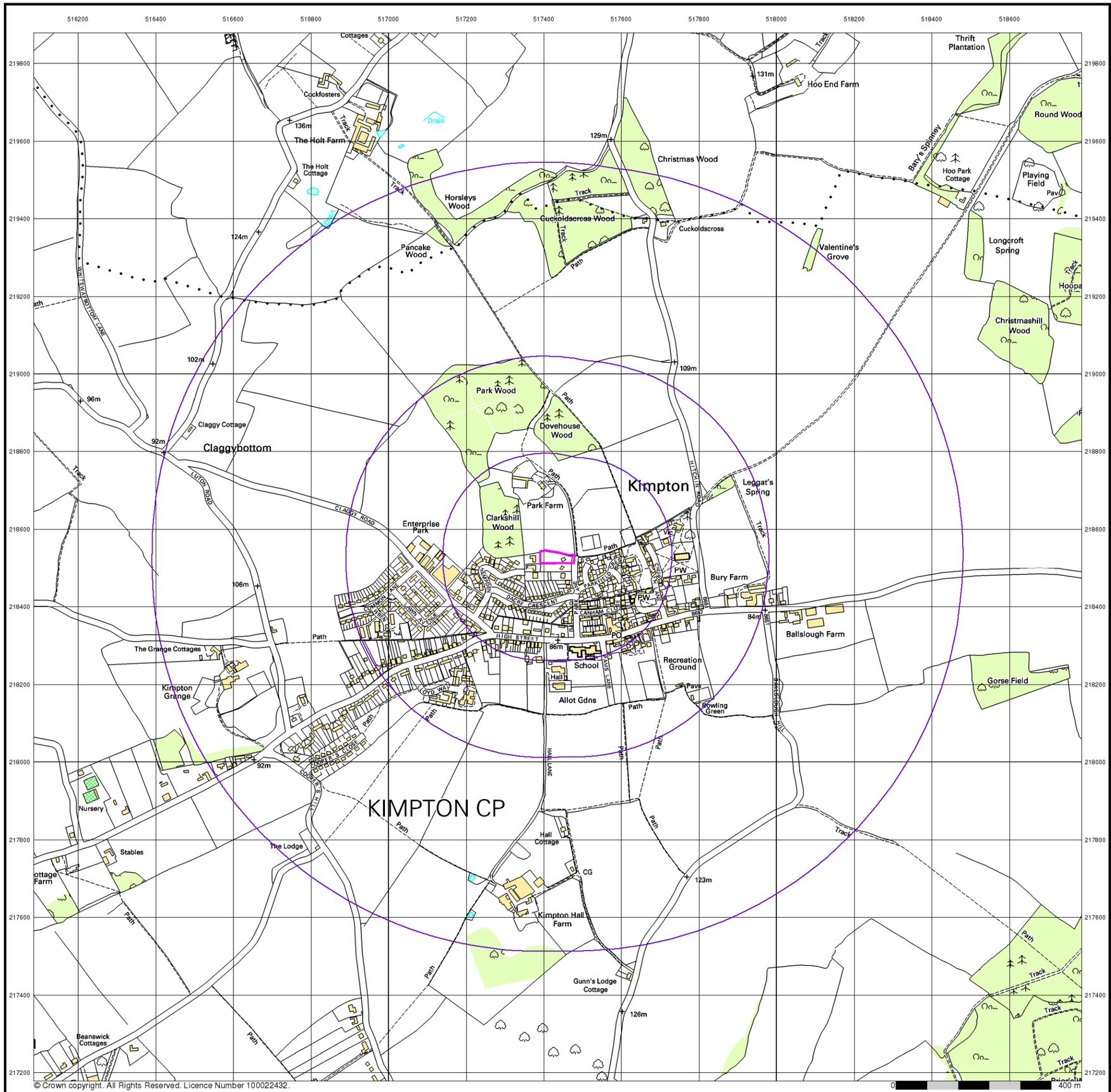
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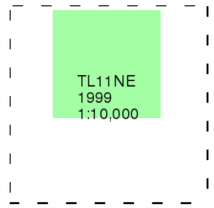
10k Raster Mapping

Published 1999

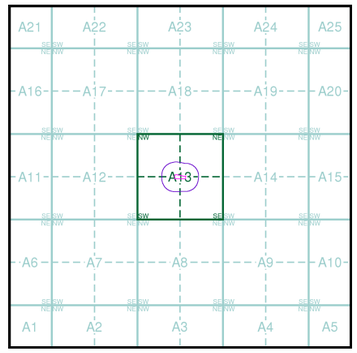
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice A



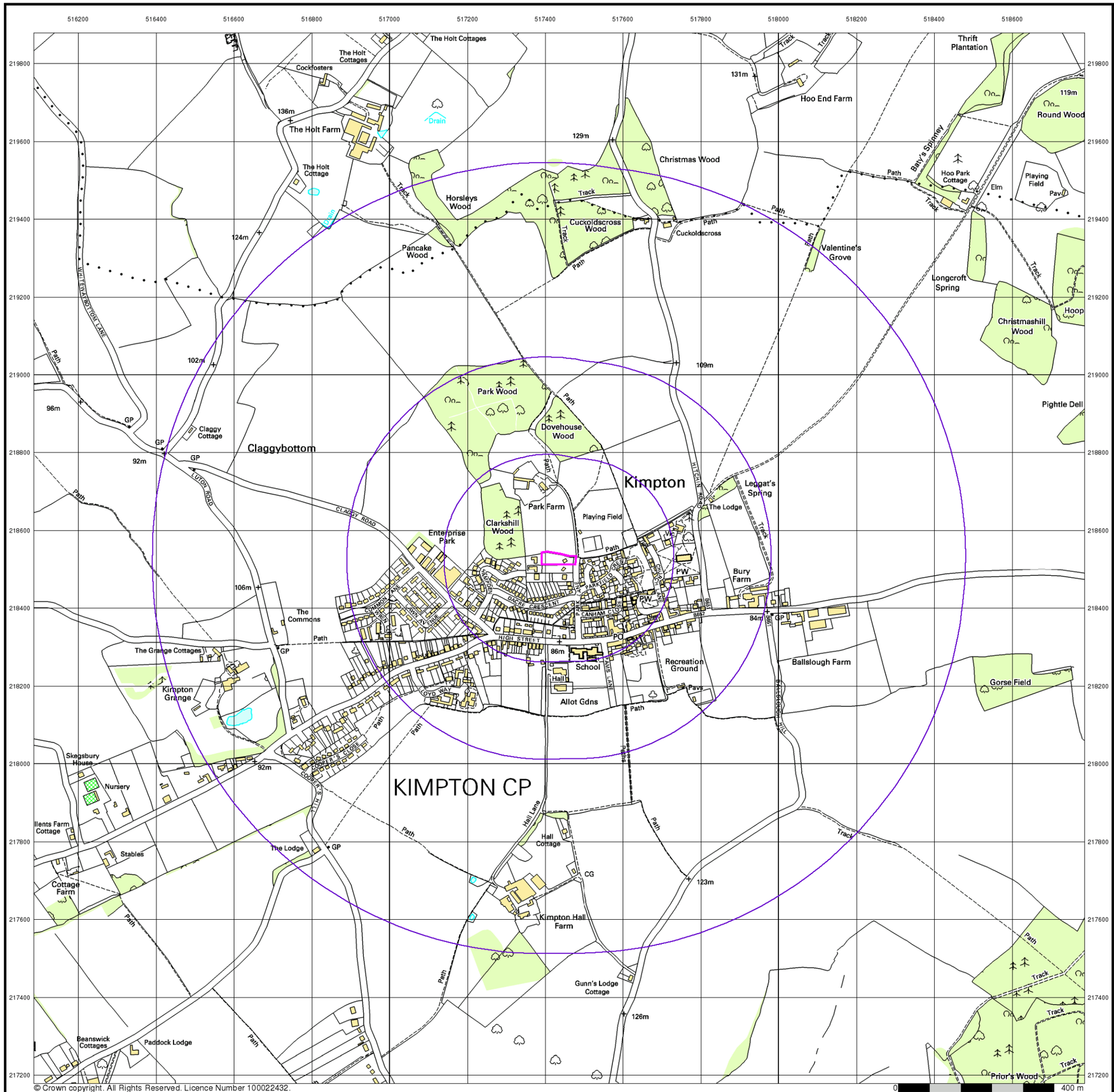
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10k Raster Mapping

Published 2006

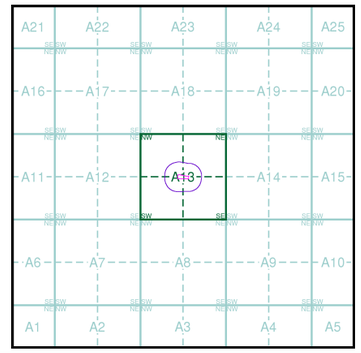
Source map scale - 1:10,000

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Map Name(s) and Date(s)

TL11NE
2006
1:10,000

Historical Map - Slice A



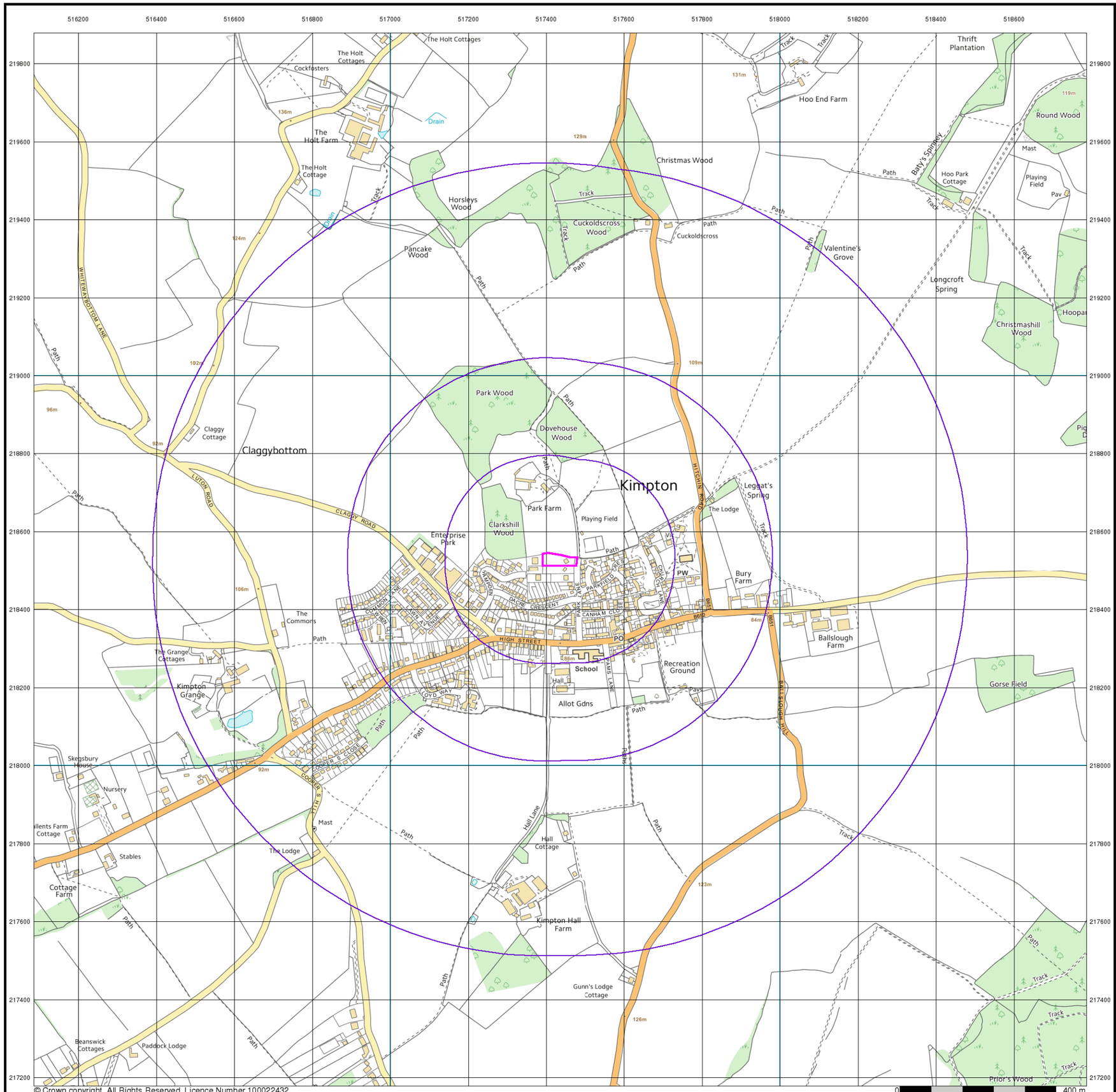
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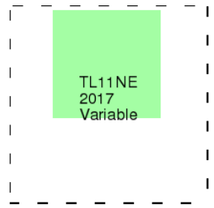
VectorMap Local

Published 2017

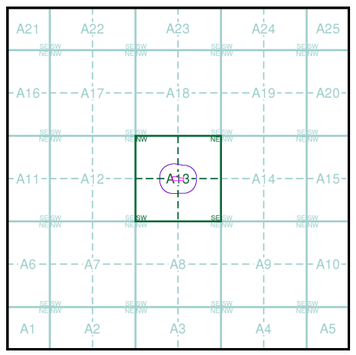
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities),1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)



Historical Map - Slice A



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Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WGR	Worked Ground (Undivided)	Void	Holocene - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Flandrian - Flandrian
	GFDMP	Glaciofluvial Deposits, Mid Pleistocene	Sand and Gravel	Ipswichian - Cromerian
	HEAD	Head	Clay, Silt, Sand and Gravel	Quaternary - Quaternary
	CWF	Clay-with-flints Formation	Clay, Silt, Sand and Gravel	Quaternary - Pliocene

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	LESE	Lewes Nodular Chalk Formation and Seaford Chalk Formation (Undifferentiated)	Chalk	Santonian - Turonian
	CKR	Chalk Rock Member	Chalk	Turonian - Turonian
	HNCK	Holywell Nodular Chalk Formation and New Pit Chalk Formation (Undifferentiated)	Chalk	Turonian - Cenomanian
		Faults		

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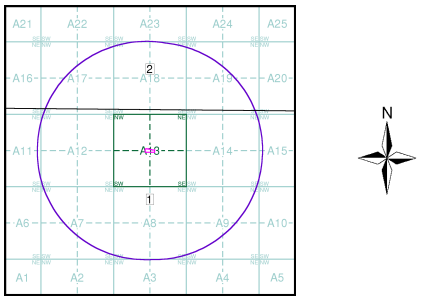
Geology 1:50,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	**2**	**Map ID:**	**1**
Map Sheet No:	**221**	**Map Sheet No:**	**239**
Map Name:	**Hitchin**	**Map Name:**	**Hertford**
Map Date:	**1995**	**Map Date:**	**1978**
Bedrock Geology:	**Available**	**Bedrock Geology:**	**Available**
Superficial Geology:	**Available**	**Superficial Geology:**	**Available**
Artificial Geology:	**Available**	**Artificial Geology:**	**Not Available**
Faults:	**Not Supplied**	**Faults:**	**Not Supplied**
Landslip:	**Available**	**Landslip:**	**Not Available**
Rock Segments:	**Not Supplied**	**Rock Segments:**	**Not Supplied**

Geology 1:50,000 Maps - Slice A

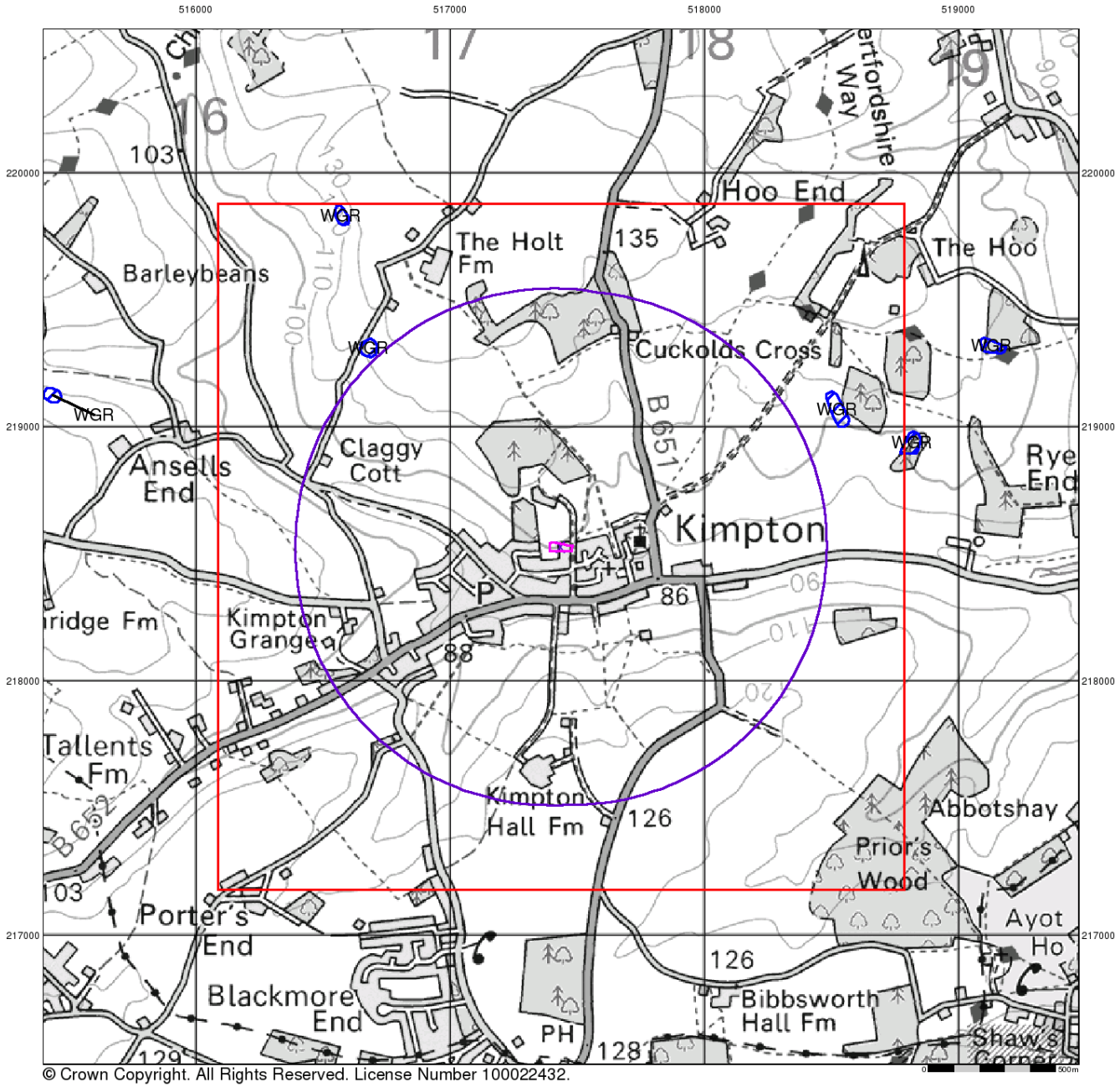


Order Details:

Order Number:	150439532_1_1
Customer Reference:	52688
National Grid Reference:	517430, 218530
Slice:	A
Site Area (Ha):	0.24
Search Buffer (m):	1000

Site Details:

White Cottage, Park Lane, Kimpton, HITCHIN, SG4 8EG



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Artificial Ground and Landslip

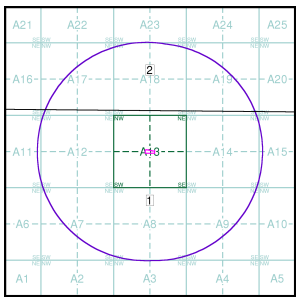
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



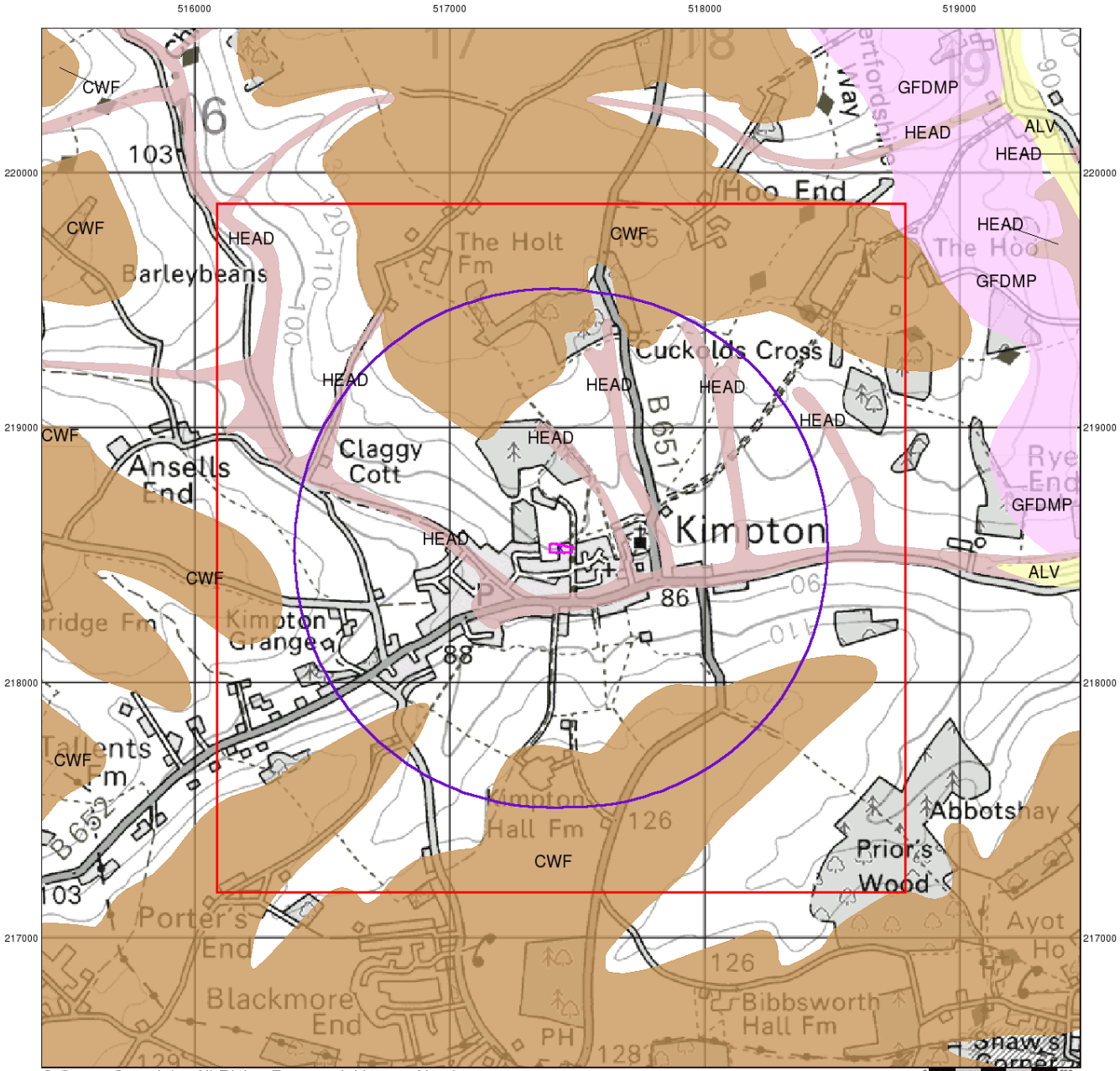
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Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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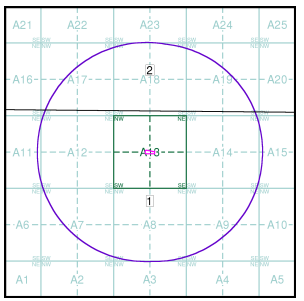
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A



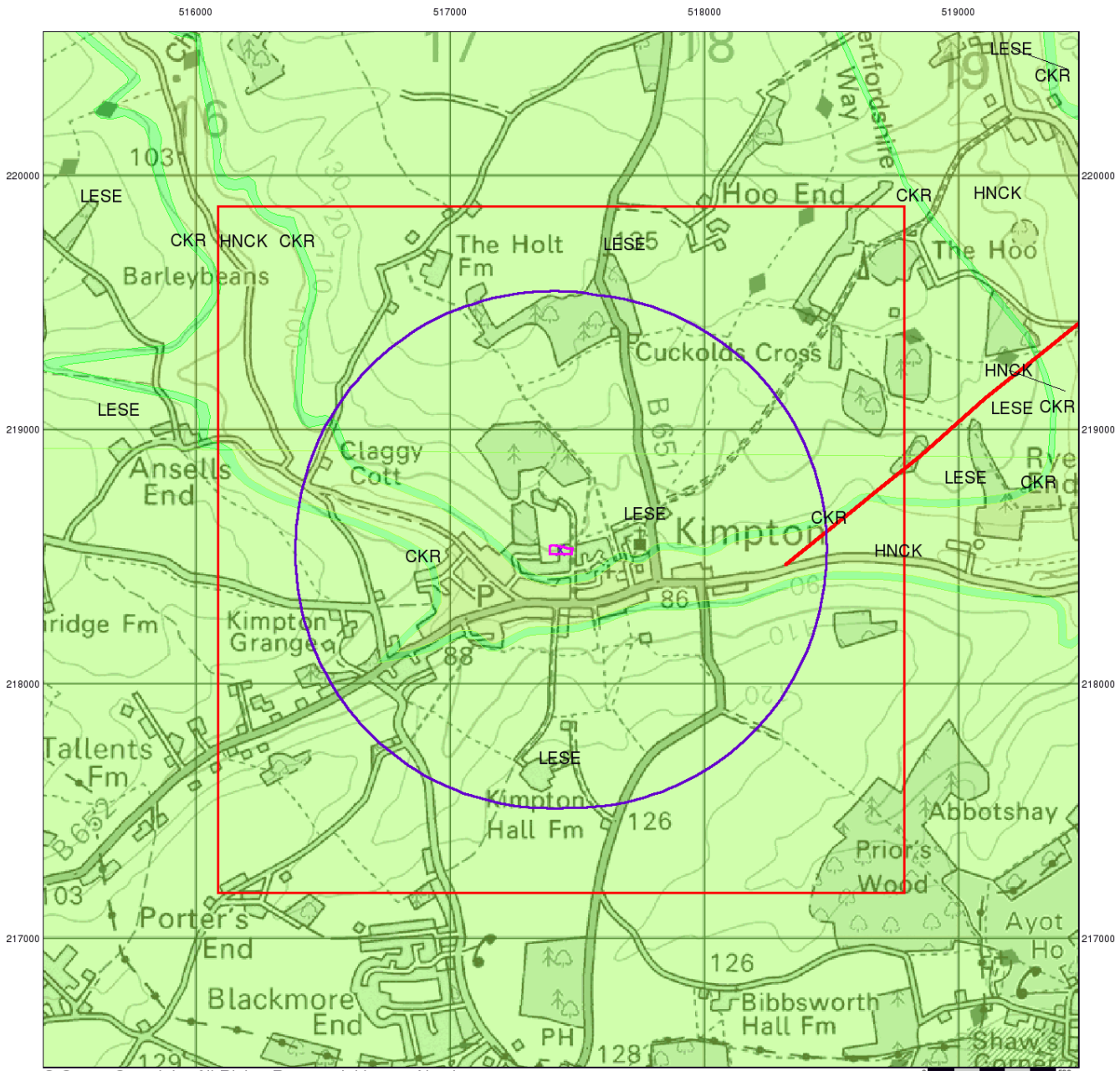
Order Details:

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Site Area (Ha):	0.24
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Web: www.envirocheck.co.uk



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Bedrock and Faults

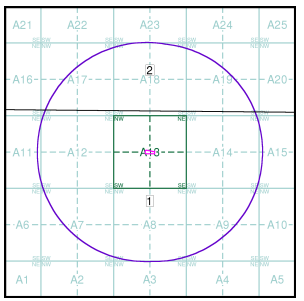
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A



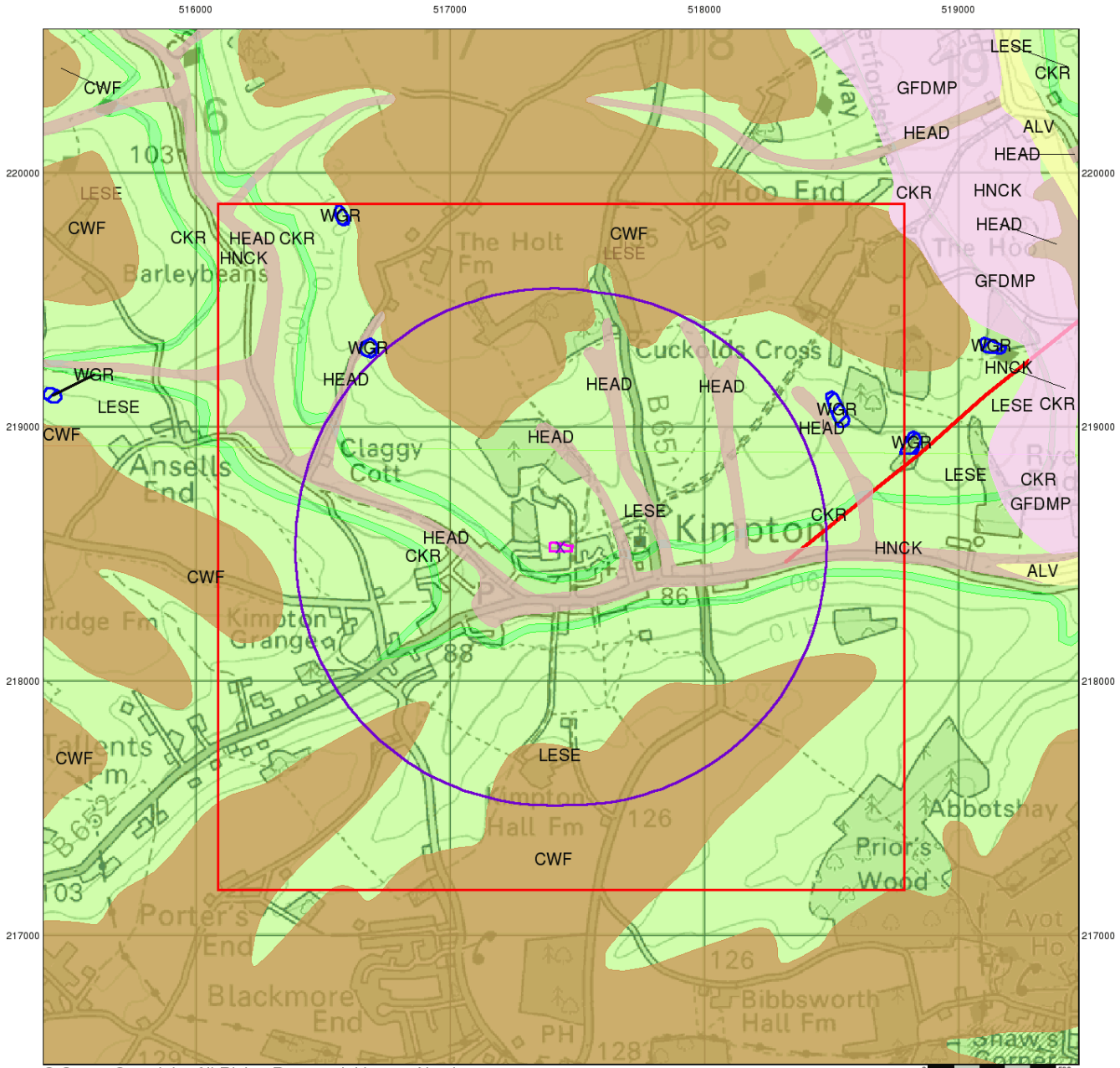
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Customer Reference:	52688
National Grid Reference:	517430, 218530
Slice:	A
Site Area (Ha):	0.24
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Landmark INFORMATION GROUP
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Fax: 0844 844 9951
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Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

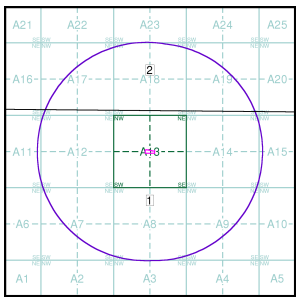
Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A



Order Details:

Order Number:	150439532_1_1
Customer Reference:	52688
National Grid Reference:	517430, 218530
Slice:	A
Site Area (Ha):	0.24
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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
150439532_1_1

Customer Reference:
52688

National Grid Reference:
517430, 218530

Slice:
A

Site Area (Ha):
0.24

Search Buffer (m):
1000

Site Details:

White Cottage, Park Lane
Kimpton
HITCHIN
SG4 8EG

Client Details:

Ms V Tickner
Ian Farmer Associates
1A Batford Mill
Lower Luton Road
Harpenden
Hertfordshire
AL5 5BZ

IAN FARMER ASSOCIATES

Contents

Report Section	Page Number
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Hazardous Substances	-
Geological	6
Industrial Land Use	12
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Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2				2
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 2				Yes
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 3			1	(*1)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 3	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 3	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones	pg 3		2		
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 4				1

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 5	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 5				1
Potentially Infilled Land (Water)	pg 5				1
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 6	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 6	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 8			1	10
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities	pg 10			1	
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 10	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 10	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 10	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 10		Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 10		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 10		Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 12		21	17	4
Fuel Station Entries	pg 15		1		
Points of Interest - Commercial Services	pg 15		15	3	1
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 17		1	3	
Points of Interest - Public Infrastructure					
Points of Interest - Recreational and Environmental	pg 17			2	
Gas Pipelines					
Underground Electrical Cables					

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 18		1		2
Areas of Adopted Green Belt	pg 18	1			
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 18	1		1	
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (N)	0	1	517434 218526
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	63	1	517434 218450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	74	1	517550 218500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	92	1	517300 218500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	96	1	517550 218450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	111	1	517300 218450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	113	1	517434 218400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	116	1	517500 218400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	141	1	517250 218526
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	142	1	517250 218500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (E)	173	1	517650 218500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	192	1	517200 218550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	213	1	517434 218300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	248	1	517150 218600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	263	1	517434 218250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	266	1	517350 218250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	297	1	517100 218600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	298	1	517100 218450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	311	1	517100 218650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	313	1	517434 218200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	326	1	517300 218200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	341	1	517050 218500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	347	1	517050 218450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	378	1	517050 218350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (W)	396	1	517000 218600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	406	1	517000 218650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	422	1	517000 218700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (SE)	429	1	517850 218300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	430	1	517050 218250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	441	1	516950 218526
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	470	1	516950 218350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NW)	488	1	516950 218750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	491	1	516900 218526
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	492	1	516900 218550
1	**Discharge Consents** Operator: Oxford University Chest Property Type: EDUCATION/NURSERY/SCHOOL/COLLEGE/UNI/TRAINING VENUE Location: Rook Grove, Kimpton Hall Farm, Kimpton, Hitchin, Herts Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CNTW.0690 Permit Version: 1 Effective Date: 17th September 1990 Issued Date: 17th September 1990 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Into Land Receiving Water: Upper Chalk **Status: Transferred from Water Act 1989** Positional Accuracy: Located by supplier to within 100m	A8SE (S)	763	2	517480 217750
2	**Discharge Consents** Operator: The Chancellor, Masters And Scholars Of University Property Type: EDUCATION/NURSERY/SCHOOL/COLLEGE/UNI/TRAINING VENUE Location: Rook Grove, Kimpton Hall Farm, Kimpton, Hitchin, Herts Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CTWC.2879 Permit Version: 1 Effective Date: 18th November 1988 Issued Date: 18th November 1988 Revocation Date: Not Supplied Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Underground Water Receiving Water: Upper Chalk **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 100m	A8SE (S)	814	2	517500 217700
	Nearest Surface Water Feature	A8SW (S)	823	-	517217 217708

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Water Abstractions** Operator: G H & M C Harding & Son Licence Number: 29/38/02/0063 Permit Version: 100 Location: Hoo Estate, Whitwell - Borehole Authority: Environment Agency, Thames Region Abstraction: Household Water Supply: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 18 Yearly Rate (m3): 6819 Details: Hoo Estate, Bury Farm, Whitwell, Herts Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 2nd July 1976 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14SW (E)	437	2	517900 218400
	Water Abstractions Operator: Mr G Clark Licence Number: 29/38/02/0082 Permit Version: 1 Location: The Holt, Kimpton, Hitchin Authority: Environment Agency, Thames Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: The Holt, Kimpton, Hitchin, Herts Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th June 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22SE (NW)	1180	2	516960 219640
	Groundwater Vulnerability Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants Map Sheet: Sheet 39 West London Scale: 1:100,000	A13SW (N)	0	2	517434 218526
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13SW (N)	0	1	517434 218526
	Superficial Aquifer Designations No Data Available				
4	**Source Protection Zones** Name: Various Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A13NE (NE)	21	2	517469 218570
5	**Source Protection Zones** Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	A13SE (E)	103	2	517580 218497
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 64.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17NE (NW)	998	3	516845 219378

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Hertfordshire County Council - Has supplied landfill data		0	4	517434 218526
	Local Authority Landfill Coverage Name: North Hertfordshire District Council - Has supplied landfill data		0	5	517434 218526
7	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1975	A9NW (SE)	661	-	518017 218131
8	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A8SW (S)	857	-	517277 217664

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: White Chalk Subgroup	A13SW (N)	0	1	517434 218526
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SW (N)	0	1	517434 218526
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (S)	159	1	517449 218350
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NE (NE)	207	1	517666 218626
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (S)	229	1	517467 218281
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14NW (NE)	357	1	517784 218721
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12SE (W)	391	1	517000 218524

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12NE (W)	394	1	517000 218585
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18SW (N)	455	1	517434 219000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 45 - 60 mg/kg	A14SW (E)	520	1	518000 218526
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 45 - 60 mg/kg	A14SW (E)	540	1	518000 218377
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 45 - 60 mg/kg	A7NE (SW)	645	1	517000 218000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 45 - 60 mg/kg	A14NE (E)	687	1	518165 218584

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	**BGS Recorded Mineral Sites** Site Name: Dovehouse Wood Pit Location: Kimpton, Harpenden, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166789 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	349	1	517588 218866
10	**BGS Recorded Mineral Sites** Site Name: Cuckolds Cross Chalk Pit Location: Cuckoldscrosshitchin Road, Kimpton, Harpenden, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 212083 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A18SW (N)	580	1	517424 219125
11	**BGS Recorded Mineral Sites** Site Name: Kimpton Hall Pit Location: Kimpton, Harpenden, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166807 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NE (S)	656	1	517645 217879
12	**BGS Recorded Mineral Sites** Site Name: Ballstough Farm Chalk Pit Location: Kimpton, Harpenden, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166774 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	674	1	518027 218123
13	**BGS Recorded Mineral Sites** Site Name: Hitchin Road Chalk Pit Location: Cuckoldscrosshitchin Road, Kimpton, Harpenden, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 212084 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	676	1	517737 219159
14	**BGS Recorded Mineral Sites** Site Name: Kimpton Hall Pit Location: Kimpton, Harpenden, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166806 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8SE (S)	709	1	517645 217824

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**BGS Recorded Mineral Sites** Site Name: Luton Road Chalkpit Location: Luton Road, Kimpton, Harpenden, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 212077 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Chalk Rock Member Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A12NW (W)	786	1	516611 218631
16	**BGS Recorded Mineral Sites** Site Name: Kimpton Pit Location: Kimpton, Harpenden, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166790 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A14NE (E)	792	1	518224 218804
17	**BGS Recorded Mineral Sites** Site Name: Kimpton Hall Pit Location: Kimpton, Harpenden, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166805 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	840	1	518083 217931
18	**BGS Recorded Mineral Sites** Site Name: Claggybottom Chalkpit Location: Luton Road, Ansells End, Kimpton, Harpenden, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 212076 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Chalk Rock Member Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A12NW (W)	918	1	516488 218704
19	**BGS Recorded Mineral Sites** Site Name: Kimpton Hall Pit Location: Kimpton, Harpenden, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166808 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8SW (S)	931	1	517231 217596
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 517700 Northing: 218300 Distance: 308 Quadrant Reference: A13 Quadrant Reference: SE Bearing Ref: SE Cavity Type: Multiple Chalkwells Commodity: Chalk Solid Geology Detail: Middle Chalk Formation Superficial Geology Detail: No Details	A13SE (SE)	308	6	517700 218300
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	517434 218526
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	517434 218526
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	517434 218526
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	517434 218526
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	115	1	517452 218393
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	229	1	517467 218281
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	237	1	517712 218478
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	517434 218526
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	159	1	517449 218350
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	229	1	517467 218281
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	517434 218526
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	159	1	517449 218350
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	229	1	517467 218281
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	517434 218526
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	159	1	517449 218350
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	229	1	517467 218281
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	517434 218526

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	517434 218526

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	**Contemporary Trade Directory Entries** Name: R & C Fleet Services Location: 68a, High Street, Kimpton, Hitchin, Hertfordshire, SG4 8PT Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (S)	174	-	517377 218339
20	**Contemporary Trade Directory Entries** Name: Ex Company Cars Location: A, 68, High Street, Kimpton, Hitchin, Hertfordshire, SG4 8PT Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (S)	174	-	517377 218339
21	**Contemporary Trade Directory Entries** Name: Dag Autos Ltd Location: Hampden, Kimpton, HITCHIN, Hertfordshire, SG4 8QH Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	177	-	517235 218429
22	**Contemporary Trade Directory Entries** Name: Polypress Components Location: 10, The Wick, Kimpton, Hitchin, Hertfordshire, SG4 8SA Classification: Printing Engineering Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (S)	186	-	517507 218330
23	**Contemporary Trade Directory Entries** Name: Paragon Motors Ltd Location: 4, Claggy Road, Kimpton, Hitchin, Hertfordshire, SG4 8PZ Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	194	-	517255 218374
23	**Contemporary Trade Directory Entries** Name: Rennsport Engineering Location: Claggy Road, Kimpton, Hitchin, Hertfordshire, SG4 8PZ Classification: Fuel Injection Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	236	-	517230 218339
24	**Contemporary Trade Directory Entries** Name: Baskerville Engineering Location: Baskerville, High Street, Kimpton, Hitchin, Hertfordshire, SG4 8RN Classification: Engineers - General **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	204	-	517569 218331
24	**Contemporary Trade Directory Entries** Name: Baskerville Engineering Location: Baskerville, High Street, Kimpton, Hitchin, Hertfordshire, SG4 8RN Classification: Engineers - General **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	204	-	517569 218331
25	**Contemporary Trade Directory Entries** Name: Wasp Nest Removal Herts Location: Flat 4, The Old Post Office, High Street, Kimpton, Hitchin, SG4 8RN Classification: Pest & Vermin Control **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	227	-	517639 218355
25	**Contemporary Trade Directory Entries** Name: N-Pest Location: Flat 1, The Old Post Office, High Street, Kimpton, Hitchin, Hertfordshire, SG4 8RN Classification: Pest & Vermin Control **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	228	-	517638 218351
26	**Contemporary Trade Directory Entries** Name: Aa Automotive Location: Unit 12,Claggy Rd Ind Est, Kimpton, Hitchin, Hertfordshire, SG4 8QB Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A13SW (W)	240	-	517151 218516

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	**Contemporary Trade Directory Entries** Name: Town & Countryside Classics Location: Unit 1, Claggy Road Industrial Estate, Kimpton, Hitchin, SG4 8QB Classification: Car Body Repairs **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (W)	245	-	517148 218486
26	**Contemporary Trade Directory Entries** Name: Crashtech Ltd Location: Unit 3, Claggy Road Industrial Estate, Kimpton, Hitchin, Hertfordshire, SG4 8QB Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (W)	247	-	517147 218476
26	**Contemporary Trade Directory Entries** Name: Village Vehicles Location: Unit 12, Claggy Road Industrial Estate, Kimpton, Hitchin, Hertfordshire, SG4 8QB Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (W)	247	-	517147 218476
26	**Contemporary Trade Directory Entries** Name: P A R Tool & Cutter Grinding Location: Unit 1, Claggy Road Industrial Estate, Kimpton, Hitchin, Hertfordshire, SG4 8QB Classification: Tool Sharpening, Repairing & Servicing **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (W)	247	-	517147 218476
26	**Contemporary Trade Directory Entries** Name: Walros Accident Repair Centre Location: Unit 5, Claggy Road Industrial Estate, Kimpton, Hitchin, Hertfordshire, SG4 8QB Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (W)	247	-	517147 218476
26	**Contemporary Trade Directory Entries** Name: Mcgrath Maserati Location: Unit 7-10, Claggy Road Industrial Estate, Kimpton, Hitchin, SG4 8QB Classification: Car Body Repairs **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (W)	247	-	517147 218476
26	**Contemporary Trade Directory Entries** Name: Redhead Racing Location: Unit 10, Claggy Road Industrial Estate, Kimpton, Hitchin, Hertfordshire, SG4 8QB Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (W)	247	-	517147 218476
26	**Contemporary Trade Directory Entries** Name: Kimpton Tyres Ltd Location: Unit 10,Claggy Rd Ind Est, Kimpton, Hitchin, Hertfordshire, SG4 8QB Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13SW (W)	248	-	517146 218476
26	**Contemporary Trade Directory Entries** Name: Countryside Classics Location: Unit 12,Claggy Rd Ind Est, Kimpton, Hitchin, Hertfordshire, SG4 8QB Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A13SW (W)	250	-	517141 218520
27	**Contemporary Trade Directory Entries** Name: Biotech Instruments Ltd Location: 75a, High Street, Kimpton, Hitchin, Hertfordshire, SG4 8PU Classification: Scientific Apparatus & Instruments - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	243	-	517280 218296
28	**Contemporary Trade Directory Entries** Name: Epa Products Ltd Location: Claggy Road Industrial Estate, Kimpton, Hitchin, Hertfordshire, SG4 8QB Classification: Agricultural Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (W)	256	-	517136 218530

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	**Contemporary Trade Directory Entries** Name: Porschons Classic Ltd Location: 9, Claggy Road, Kimpton, Hitchin, Hertfordshire, SG4 8PZ Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	259	-	517170 218379
29	**Contemporary Trade Directory Entries** Name: Cirogen Location: 9, Claggy Road, Kimpton, Hitchin, Hertfordshire, SG4 8PZ Classification: Car Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	259	-	517170 218379
30	**Contemporary Trade Directory Entries** Name: W H B Engineering Ltd Location: Claggy Road Industrial Estate, Kimpton, Hitchin, Hertfordshire, SG4 8QB Classification: Engineers - General **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (W)	261	-	517130 218535
30	**Contemporary Trade Directory Entries** Name: Bradstock Power Tools Ltd Location: Claggy Road Industrial Estate, Kimpton, Hitchin, SG4 8QB Classification: Lawnmowers & Garden Machinery - Sales & Service **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (W)	289	-	517103 218485
30	**Contemporary Trade Directory Entries** Name: Ash Industrial Joinery Services Location: Unit 3, Coleman Business Centre, Claggy Road, Kimpton, Hitchin, Hertfordshire, SG4 8HY Classification: Pallets, Crates & Packing Cases **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	293	-	517098 218520
30	**Contemporary Trade Directory Entries** Name: Bowman Leisure Karts Ltd Location: Unit 1, Coleman Business Centre, Claggy Road, Kimpton, Hitchin, Hertfordshire, SG4 8HY Classification: Commercial Vehicle Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	294	-	517098 218520
30	**Contemporary Trade Directory Entries** Name: Hda Auto Services Ltd Location: Unit 2, Coleman Business Centre, Claggy Road, Kimpton, Hitchin, SG4 8HY Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (W)	294	-	517098 218520
30	**Contemporary Trade Directory Entries** Name: Transam Rubber & Extrusions Ltd Location: Unit 2, Coleman Business Centre, Claggy Road, Kimpton, Hitchin, Hertfordshire, SG4 8HY Classification: Hose, Tubing & Fittings **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	294	-	517098 218520
30	**Contemporary Trade Directory Entries** Name: P A R Regrinds Location: Unit 1, Coleman Business Centre, Claggy Road, Kimpton, Hitchin, Hertfordshire, SG4 8HY Classification: Tool Sharpening, Repairing & Servicing **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	294	-	517098 218520
30	**Contemporary Trade Directory Entries** Name: The St Albans Meter Co Ltd Location: Unit 4, Enterprise Park, Kimpton, Hitchin, Hertfordshire, SG4 8HP Classification: Electronic Component Manufacturers & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	299	-	517093 218561
30	**Contemporary Trade Directory Entries** Name: Welwyn Marblecraft Location: 3, Enterprise Park, Kimpton, Hitchin, Hertfordshire, SG4 8HP Classification: Fireplaces & Mantelpieces **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	304	-	517088 218565

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	**Contemporary Trade Directory Entries** Name: Elite Joinery Location: 7, Enterprise Park, Kimpton, Hitchin, Hertfordshire, SG4 8HP Classification: Joinery Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	307	-	517084 218528
30	**Contemporary Trade Directory Entries** Name: G F Engineering & Laboratory Apparatus Location: 8, Enterprise Park, Kimpton, Hitchin, Hertfordshire, SG4 8HP Classification: Engineers - General **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	315	-	517076 218518
30	**Contemporary Trade Directory Entries** Name: Future Automation Location: 2, Enterprise Park, Kimpton, Hitchin, Hertfordshire, SG4 8HP Classification: Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NE (W)	330	-	517062 218557
31	**Contemporary Trade Directory Entries** Name: Kimpton Coachworks Location: 11, Claggy Road, Kimpton, Hitchin, Hertfordshire, SG4 8QA Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (W)	290	-	517114 218428
32	**Contemporary Trade Directory Entries** Name: Welwyn Machinery Ltd Location: 116, High Street, Kimpton, HITCHIN, Hertfordshire, SG4 8QP Classification: Machinery - Industrial & Commercial **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (SW)	458	-	517012 218257
33	**Contemporary Trade Directory Entries** Name: Jenson Engineering Ltd Location: Unit 6,Kimpton Hall Farm, Kimpton, Hitchin, Hertfordshire, SG4 8EJ Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A8SW (S)	886	-	517344 217628
33	**Contemporary Trade Directory Entries** Name: London Musical Instruments Ltd Location: Kimpton Hall Farm, Kimpton, HITCHIN, Hertfordshire, SG4 8EJ Classification: Musical Instrument - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	902	-	517344 217612
33	**Contemporary Trade Directory Entries** Name: Fleet Sales Location: Kimpton Hall Farm, Kimpton, Hitchin, Hertfordshire, SG4 8EJ Classification: Commercial Vehicle Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	902	-	517344 217612
33	**Contemporary Trade Directory Entries** Name: Evolution Vehicle Services Location: Kimpton Hall Farm, Kimpton, Hitchin, Hertfordshire, SG4 8EJ Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	902	-	517344 217612
34	**Fuel Station Entries** Name: Walkers Garage Location: 68a High Street, Kimpton, HITCHIN, Hertfordshire, SG4 8PT Brand: Obsolete Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Automatically positioned to the address	A13SW (S)	174	-	517377 218339
35	**Points of Interest - Commercial Services** Name: R & C Fleet Services Location: 68a High Street, Kimpton, Hitchin, SG4 8PT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SW (S)	174	7	517377 218339
35	**Points of Interest - Commercial Services** Name: R & C Fleet Services Location: 68a High Street, Kimpton, Hitchin, SG4 8PT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SW (S)	174	7	517377 218339

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	**Points of Interest - Commercial Services** Name: Village Vehicles Ltd Location: Herons Yard 1b, Hampden, Kimpton, Hitchin, SG4 8QH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SW (SW)	177	7	517235 218429
36	**Points of Interest - Commercial Services** Name: D A G Auto Repairs Ltd Location: Hampden, Kimpton, Hitchin, SG4 8QH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SW (SW)	177	7	517235 218429
36	**Points of Interest - Commercial Services** Name: Walros Accident Repair Centre Location: 5 Claggy Road, Kimpton, Hitchin, SG4 8PZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SW (SW)	251	7	517189 218363
37	**Points of Interest - Commercial Services** Name: Dag Location: 52 High Street, Kimpton, Hitchin, SG4 8RN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	180	7	517570 218359
37	**Points of Interest - Commercial Services** Name: Wasp Nest Removal Herts Location: Flat 4 The Old Post Office, High Street, Kimpton, Hitchin, SG4 8RN Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A13SE (SE)	228	7	517638 218351
37	**Points of Interest - Commercial Services** Name: N-pest Location: Flat 1 The Old Post Office, High Street, Kimpton, Hitchin, SG4 8RN Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A13SE (SE)	228	7	517638 218351
38	**Points of Interest - Commercial Services** Name: Town & Countryside Classics Location: Unit 1, Claggy Road Industrial Estate, Kimpton, Hitchin, SG4 8QB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SW (W)	246	7	517147 218486
38	**Points of Interest - Commercial Services** Name: Bill McGarth Maserati Ltd Location: Unit 7, Claggy Road Industrial Estate, Kimpton, Hitchin, SG4 8QB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SW (W)	247	7	517147 218476
38	**Points of Interest - Commercial Services** Name: Redhead Racing Location: Unit 10, Claggy Road Industrial Estate, Kimpton, Hitchin, SG4 8QB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SW (W)	247	7	517147 218476
38	**Points of Interest - Commercial Services** Name: Walros Accident Repair Centre Location: Unit 3, Claggy Road Industrial Estate, Kimpton, Hitchin, SG4 8QB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SW (W)	247	7	517147 218476
38	**Points of Interest - Commercial Services** Name: Crashtech Ltd Location: Unit 3, Claggy Road Industrial Estate, Kimpton, Hitchin, SG4 8QB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SW (W)	248	7	517146 218475
38	**Points of Interest - Commercial Services** Name: Aa Automotive Location: Unit 10, Claggy Rd Ind Est, Kimpton, Hitchin, Hertfordshire, SG4 8QB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SW (W)	248	7	517146 218476

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	**Points of Interest - Commercial Services** Name: Village Vehicles Location: Unit 12, Claggy Road Industrial Estate, Kimpton, Hitchin, SG4 8QB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SW (W)	248	7	517146 218475
38	**Points of Interest - Commercial Services** Name: McGrath Maserati Location: Unit 7-10, Claggy Road Industrial Estate, Kimpton, Hitchin, SG4 8QB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SW (W)	248	7	517146 218475
38	**Points of Interest - Commercial Services** Name: Sar Classics Location: Unit 12, Claggy Road Industrial Estate, Kimpton, Hitchin, SG4 8QB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SW (W)	259	7	517134 218479
38	**Points of Interest - Commercial Services** Name: Hda Auto Services Ltd Location: Unit 2 Coleman Business Centre, Claggy Road, Kimpton, Hitchin, SG4 8HY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SE (W)	294	7	517097 218519
39	**Points of Interest - Commercial Services** Name: Evolution Vehicle Services Location: Kimpton Hall Farm, Kimpton, Hitchin, SG4 8EJ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (S)	902	7	517344 217612
40	**Points of Interest - Manufacturing and Production** Name: Works Location: SG4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A13SW (W)	250	7	517144 218476
40	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (W)	252	7	517141 218481
40	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (W)	274	7	517117 218519
40	**Points of Interest - Manufacturing and Production** Name: Works Location: SG4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (W)	279	7	517112 218521
41	**Points of Interest - Recreational and Environmental** Name: Playground Location: Nr High Street, SG4 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13SE (SE)	310	7	517720 218320
41	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	325	7	517734 218314

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	**Ancient Woodland** Name: Park/Dovehouse Woods. Reference: 1115925 Area(m²): 71890.99 Type: Plantation on Ancient Woodland	A13NE (N)	233	8	517438 218776
43	**Ancient Woodland** Name: Christmas Wood Reference: 1115928 Area(m²): 51473.72 Type: Plantation on Ancient Woodland	A18NW (N)	704	8	517422 219248
44	**Ancient Woodland** Name: Christmas Wood Reference: 1115928 Area(m²): 50517.91 Type: Ancient and Semi-Natural Woodland	A18NW (N)	815	8	517182 219330
45	**Areas of Adopted Green Belt** Authority: North Hertfordshire District Council Plan Name: North Hertfordshire District Local Plan **Status: Adopted** Plan Date: 30th April 1996	A13NE (N)	0	9	517436 218537
46	**Nitrate Vulnerable Zones** Name: Lee Nvz Description: Surface Water Source: Environment Agency, Head Office	A13SW (N)	0	12	517434 218526
47	**Nitrate Vulnerable Zones** Name: Luton Chalk Description: Groundwater Source: Environment Agency, Head Office	A14NW (NE)	374	12	517797 218732

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Welwyn Hatfield District Council - Environmental Health Department	August 2013	Annual Rolling Update
St Albans City & District Council - Environmental Health Department	February 2015	Annual Rolling Update
South Bedfordshire District Council (now part of Central Bedfordshire Council) - Environmental Health Department	July 2008	Not Applicable
North Hertfordshire District Council - Environmental Health Department	October 2014	Annual Rolling Update
Central Bedfordshire Council - Environmental Health Department	October 2017	Annually
Luton Borough Council - Environmental Health Department	September 2014	Annual Rolling Update
Discharge Consents		
Environment Agency - Anglian Region	October 2017	Quarterly
Environment Agency - Thames Region	October 2017	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Thames Region	March 2013	As notified
Integrated Pollution Controls		
Environment Agency - Thames Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control		
Environment Agency - South East Region - North East Thames Area	October 2017	Quarterly
Environment Agency - Thames Region	October 2017	Quarterly
Local Authority Integrated Pollution Prevention And Control		
South Bedfordshire District Council (now part of Central Bedfordshire Council) - Environmental Health Department	June 2008	Not Applicable
Welwyn Hatfield District Council - Environmental Health Department	May 2012	Annual Rolling Update
St Albans City & District Council - Environmental Health Department	May 2014	Annual Rolling Update
Central Bedfordshire Council - Environmental Health Department	November 2014	Annually
Luton Borough Council - Environmental Health Department	September 2014	Annual Rolling Update
North Hertfordshire District Council - Environmental Health Department	September 2014	Annual Rolling Update
Local Authority Pollution Prevention and Controls		
South Bedfordshire District Council (now part of Central Bedfordshire Council) - Environmental Health Department	June 2008	Not Applicable
Welwyn Hatfield District Council - Environmental Health Department	May 2012	Annual Rolling Update
St Albans City & District Council - Environmental Health Department	May 2014	Annual Rolling Update
Central Bedfordshire Council - Environmental Health Department	November 2014	Annually
Luton Borough Council - Environmental Health Department	September 2014	Annual Rolling Update
North Hertfordshire District Council - Environmental Health Department	September 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
South Bedfordshire District Council (now part of Central Bedfordshire Council) - Environmental Health Department	June 2008	Not Applicable
Welwyn Hatfield District Council - Environmental Health Department	May 2012	Annual Rolling Update
St Albans City & District Council - Environmental Health Department	May 2014	Annual Rolling Update
Central Bedfordshire Council - Environmental Health Department	November 2014	Annually
Luton Borough Council - Environmental Health Department	September 2014	Annual Rolling Update
North Hertfordshire District Council - Environmental Health Department	September 2014	Annual Rolling Update
Nearest Surface Water Feature		
Ordnance Survey	September 2017	
Pollution Incidents to Controlled Waters		
Environment Agency - Anglian Region	September 1999	Not Applicable
Environment Agency - Thames Region	September 1999	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - Thames Region	March 2013	As notified
Prosecutions Relating to Controlled Waters		
Environment Agency - Thames Region	March 2013	As notified
Registered Radioactive Substances		
Environment Agency - Thames Region	January 2015	

Agency & Hydrological	Version	Update Cycle
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region - North East Area	October 2017 October 2017	Quarterly Quarterly
Water Abstractions Environment Agency - Anglian Region Environment Agency - Thames Region	October 2017 October 2017	Quarterly Quarterly
Water Industry Act Referrals Environment Agency - Thames Region	October 2017	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones Environment Agency - Head Office	October 2017	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2017	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2017	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	November 2017	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	November 2017	Quarterly
Flood Defences Environment Agency - Head Office	November 2017	Quarterly
OS Water Network Lines Ordnance Survey	October 2017	6 Weekly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water Suitability Environment Agency - Head Office	October 2013	As notified
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Data Currency

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Environment Agency - Head Office	October 2017	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Thames Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - South East Region - North East Thames Area	October 2017	Quarterly
Environment Agency - Thames Region - North East Area	October 2017	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - South East Region - North East Thames Area	October 2017	Quarterly
Environment Agency - Thames Region - North East Area	October 2017	Quarterly
Local Authority Landfill Coverage		
Bedfordshire County Council (now part of Central Bedfordshire Council)	May 2000	Not Applicable
Hertfordshire County Council - Spatial Planning and Economy Unit	May 2000	Not Applicable
Luton Borough Council - Department of Environment and Regeneration	May 2000	Not Applicable
North Hertfordshire District Council - Environmental Health Department	May 2000	Not Applicable
South Bedfordshire District Council (now part of Central Bedfordshire Council) - Environmental Health Department	May 2000	Not Applicable
St Albans City & District Council - Environmental Health Department	May 2000	Not Applicable
Welwyn Hatfield District Council - Environmental Health Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Bedfordshire County Council (now part of Central Bedfordshire Council)	May 2000	Not Applicable
Hertfordshire County Council - Spatial Planning and Economy Unit	May 2000	Not Applicable
Luton Borough Council - Department of Environment and Regeneration	May 2000	Not Applicable
North Hertfordshire District Council - Environmental Health Department	May 2000	Not Applicable
South Bedfordshire District Council (now part of Central Bedfordshire Council) - Environmental Health Department	May 2000	Not Applicable
St Albans City & District Council - Environmental Health Department	May 2000	Not Applicable
Welwyn Hatfield District Council - Environmental Health Department	May 2000	Not Applicable
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites		
Environment Agency - Thames Region - North East Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Thames Region - North East Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - Thames Region - North East Area	June 2015	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	September 2017	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Hertfordshire County Council - Spatial Planning and Economy Unit	February 2016	Annual Rolling Update
Luton Borough Council - Department of Environment and Regeneration	February 2016	Annual Rolling Update
North Hertfordshire District Council	February 2016	Annual Rolling Update
St Albans City & District Council	February 2016	Annual Rolling Update
Welwyn Hatfield District Council	February 2016	Annual Rolling Update
Central Bedfordshire Council - Planning Department	February 2016	Annually
Bedfordshire County Council (now part of Central Bedfordshire Council)	July 2008	Annual Rolling Update
South Bedfordshire District Council (now part of Central Bedfordshire Council)	November 2008	Not Applicable
Planning Hazardous Substance Consents		
Hertfordshire County Council - Spatial Planning and Economy Unit	February 2016	Annual Rolling Update
Luton Borough Council - Department of Environment and Regeneration	February 2016	Annual Rolling Update
North Hertfordshire District Council	February 2016	Annual Rolling Update
St Albans City & District Council	February 2016	Annual Rolling Update
Welwyn Hatfield District Council	February 2016	Annual Rolling Update
Central Bedfordshire Council - Planning Department	February 2016	Annually
Bedfordshire County Council (now part of Central Bedfordshire Council)	July 2008	Annual Rolling Update
South Bedfordshire District Council (now part of Central Bedfordshire Council)	November 2008	Not Applicable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2017	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	September 2017	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2017	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Points of Interest - Commercial Services PointX	December 2017	Quarterly
Points of Interest - Education and Health PointX	December 2017	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2017	Quarterly
Points of Interest - Public Infrastructure PointX	December 2017	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2017	Quarterly
Underground Electrical Cables National Grid	December 2015	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural England	October 2017	Bi-Annually
Areas of Adopted Green Belt		
Central Bedfordshire Council - Planning Department	May 2011	As notified
Luton Borough Council	November 2017	As notified
North Hertfordshire District Council	November 2017	As notified
South Bedfordshire District Council (now part of Central Bedfordshire Council)	November 2017	As notified
St Albans City & District Council	November 2017	As notified
Welwyn Hatfield District Council	November 2017	As notified
Areas of Unadopted Green Belt		
Central Bedfordshire Council - Planning Department	May 2011	As notified
Luton Borough Council	November 2017	As notified
North Hertfordshire District Council	November 2017	As notified
South Bedfordshire District Council (now part of Central Bedfordshire Council)	November 2017	As notified
St Albans City & District Council	November 2017	As notified
Welwyn Hatfield District Council	November 2017	As notified
Areas of Outstanding Natural Beauty		
Natural England	August 2017	Bi-Annually
Environmentally Sensitive Areas		
Natural England	January 2017	Annually
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	August 2017	Bi-Annually
Marine Nature Reserves		
Natural England	August 2017	Bi-Annually
National Nature Reserves		
Natural England	August 2017	Bi-Annually
National Parks		
Natural England	August 2017	Bi-Annually
Nitrate Vulnerable Zones		
Environment Agency - Head Office	December 2017	Bi-Annually
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	
Ramsar Sites		
Natural England	August 2017	Bi-Annually
Sites of Special Scientific Interest		
Natural England	August 2017	Bi-Annually
Special Areas of Conservation		
Natural England	August 2017	Bi-Annually
Special Protection Areas		
Natural England	August 2017	Bi-Annually

Data Suppliers

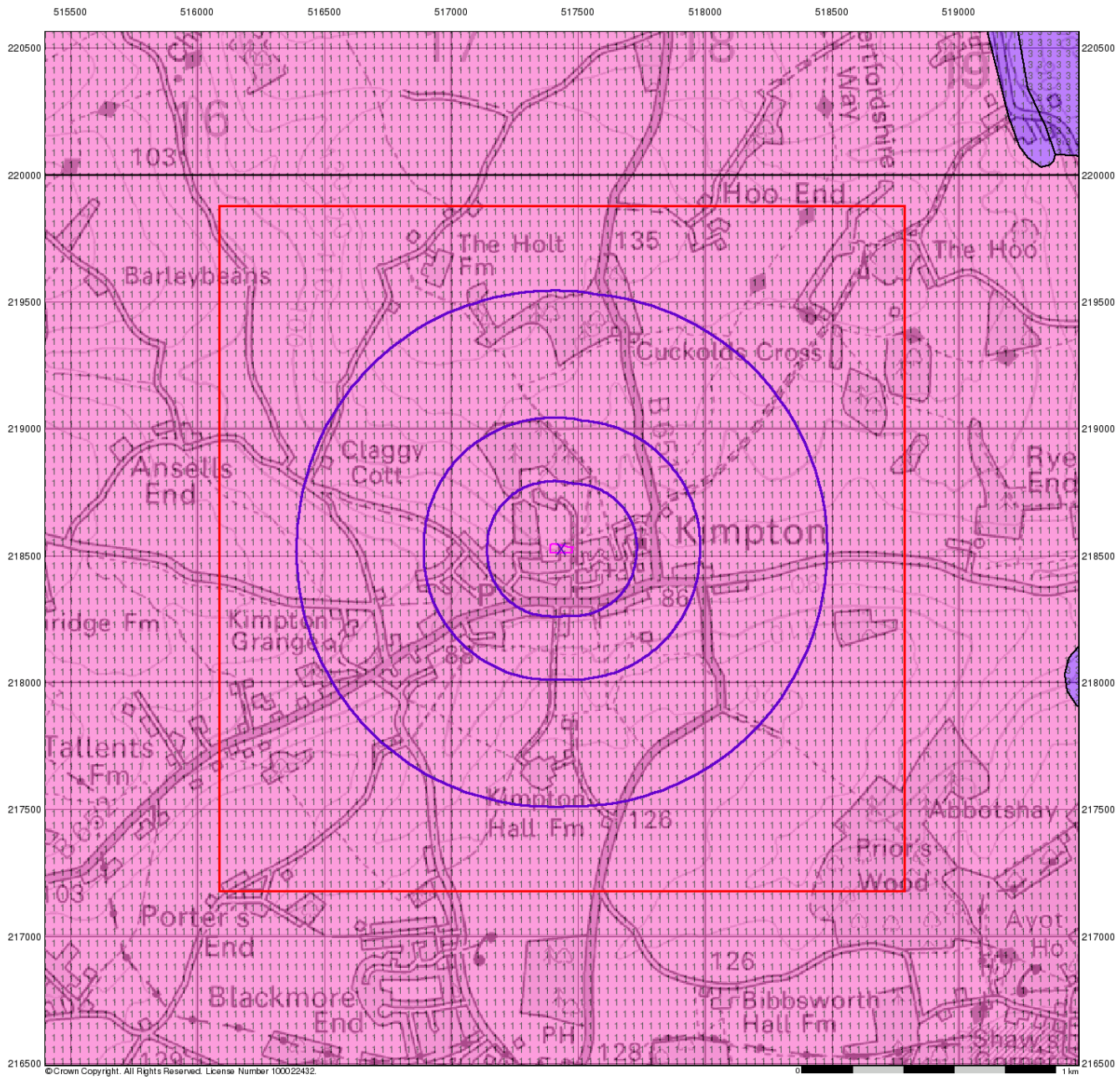
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
Environment Agency	Environment Agency
Scottish Environment Protection Agency	SEPA Scottish Environment Protection Agency
The Coal Authority	The Coal Authority
British Geological Survey	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	Cyfoeth Naturiol Cymru Natural Resources Wales
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE
Natural England	NATURAL ENGLAND
Public Health England	Public Health England
Ove Arup	ARUP
Peter Brett Associates	pba peterbrett

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 023 8079 2000 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
4	**Hertfordshire County Council - Spatial Planning and Economy Unit** County Hall, Hertford, Hertfordshire, SG13 8DN	Telephone: 01992 556266 Fax: 01992 556015 Email: spatialplanning@hertfordshire.gov.uk Website: www.hertsdirect.org
5	**North Hertfordshire District Council - Environmental Health Department** Council Offices, Gernon Road, Letchworth, Hertfordshire, SG6 3JF	Telephone: 01462 474000 Fax: 01462 474559 Website: www.north-herts.gov.uk
6	**Peter Brett Associates** Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
7	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
8	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
9	**North Hertfordshire District Council** Council Offices, Gernon Road, Letchworth, Hertfordshire, SG6 3JF	Telephone: 01462 474000 Fax: 01462 474558 Website: www.north-herts.gov.uk
10	**St Albans City & District Council** Civic Centre, St Peters Street, St Albans, Hertfordshire, AL1 3JE	Telephone: 01727 866100 Fax: 01727 845658 Website: www.stalbans.gov.uk
11	**Welwyn Hatfield District Council** Council Offices, Campus East, Welwyn Garden City, Hertfordshire, AL8 6AE	Telephone: 01707 357000 Fax: 01707 375490 Website: www.welhat.gov.uk
12	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.



IAN FARMER ASSOCIATES

Groundwater Vulnerability

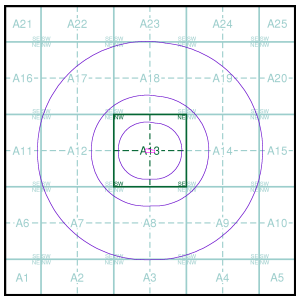
General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Site Sensitivity Context Map - Slice A



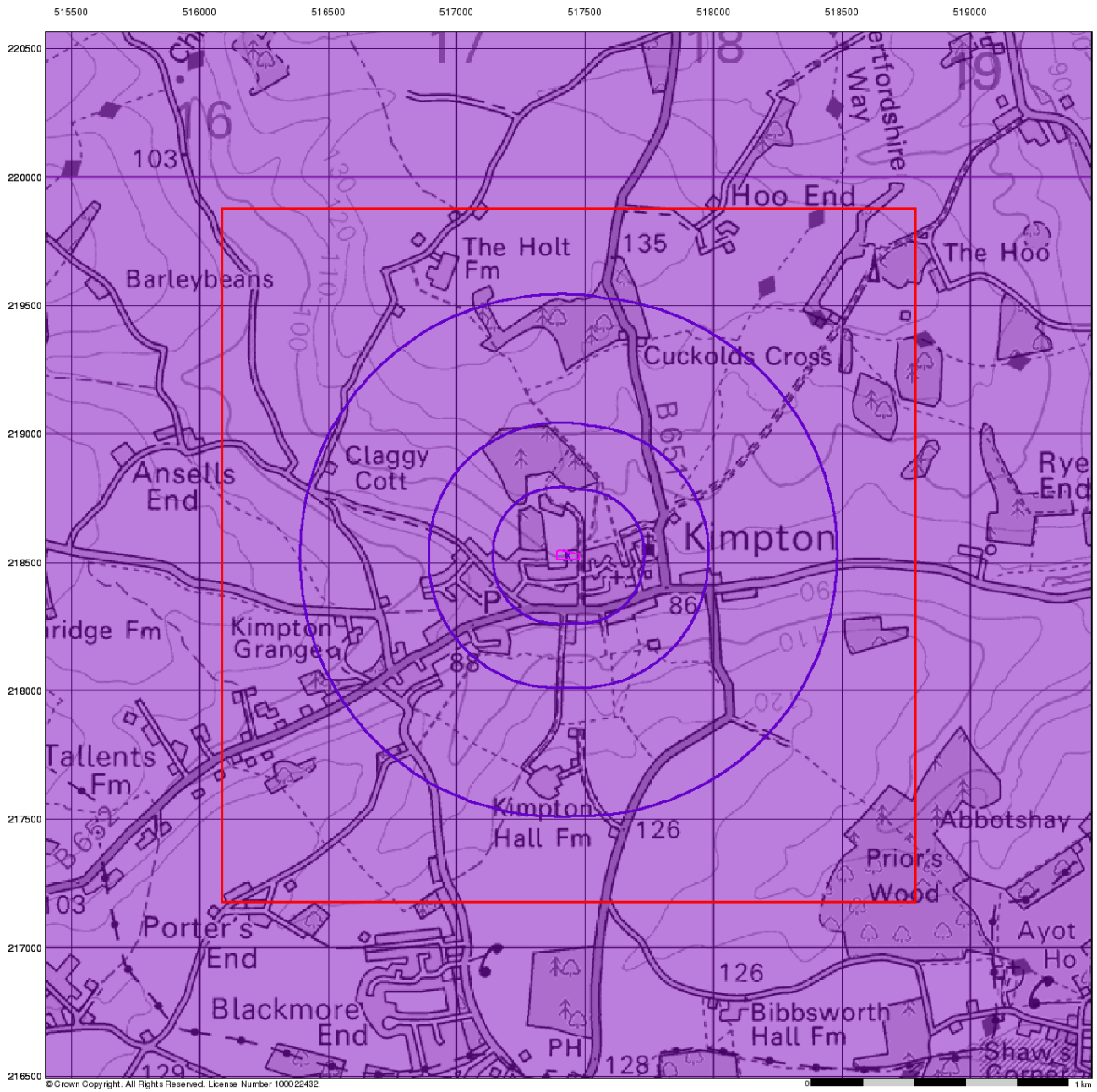
Order Details

Order Number:	150439532_1_1
Customer Ref:	52688
National Grid Reference:	517430, 218530
Slice:	A
Site Area (Ha):	0.24
Search Buffer (m):	1000

Site Details

White Cottage, Park Lane, Kimpton, HITCHIN, SG4 8EG

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



IAN FARMER ASSOCIATES

Bedrock Aquifer Designation

General

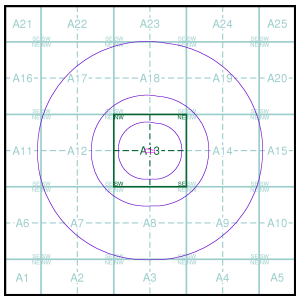
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



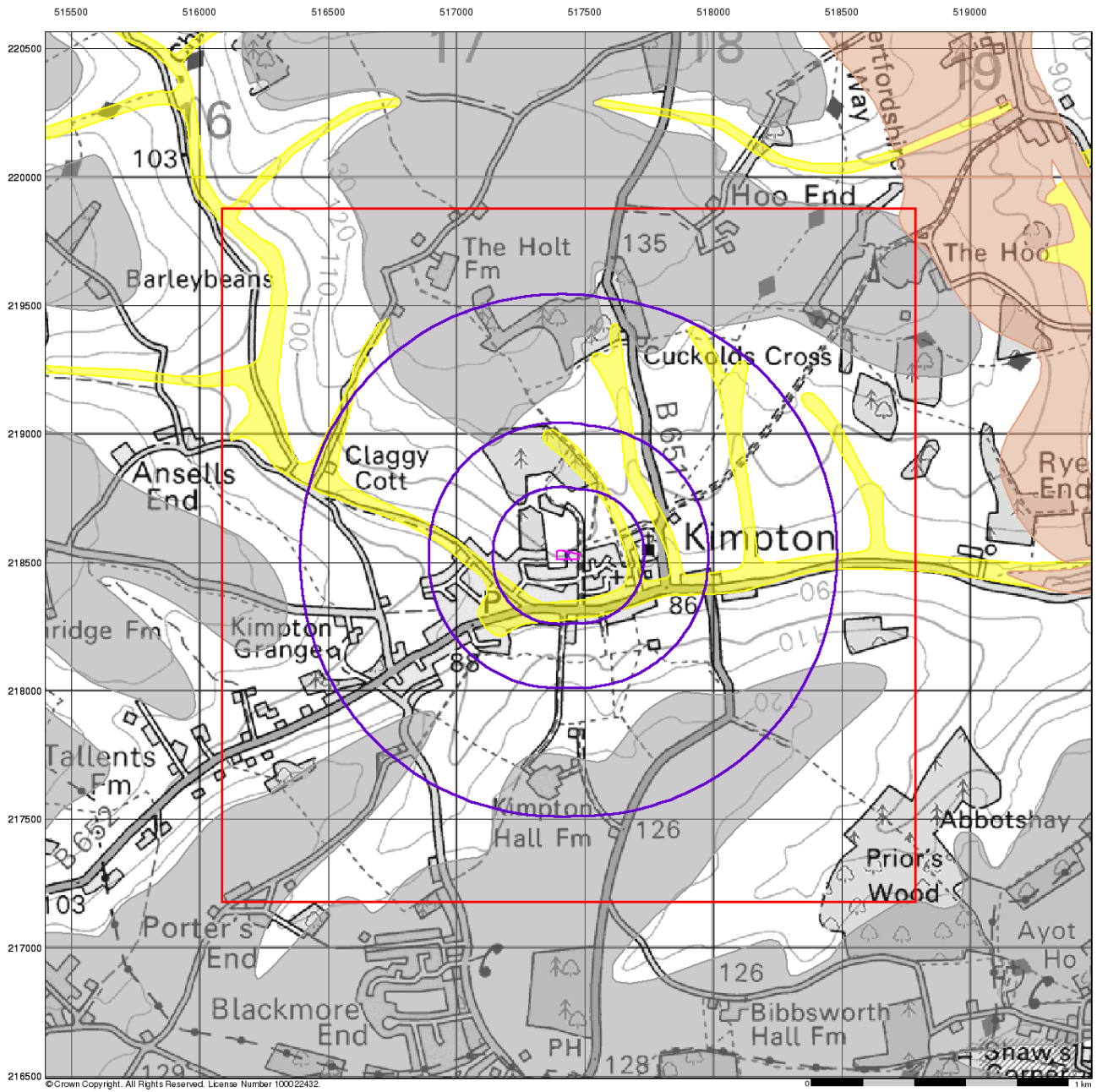
Order Details

Order Number:	150439532_1_1
Customer Ref:	52688
National Grid Reference:	517430, 218530
Slice:	A
Site Area (Ha):	0.24
Search Buffer (m):	1000

Site Details

White Cottage, Park Lane, Kimpton, HITCHIN, SG4 8EG

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Superficial Aquifer Designation

General

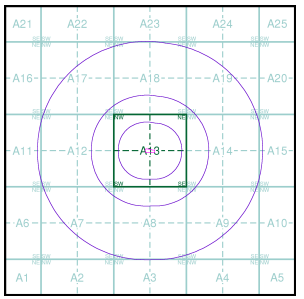
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



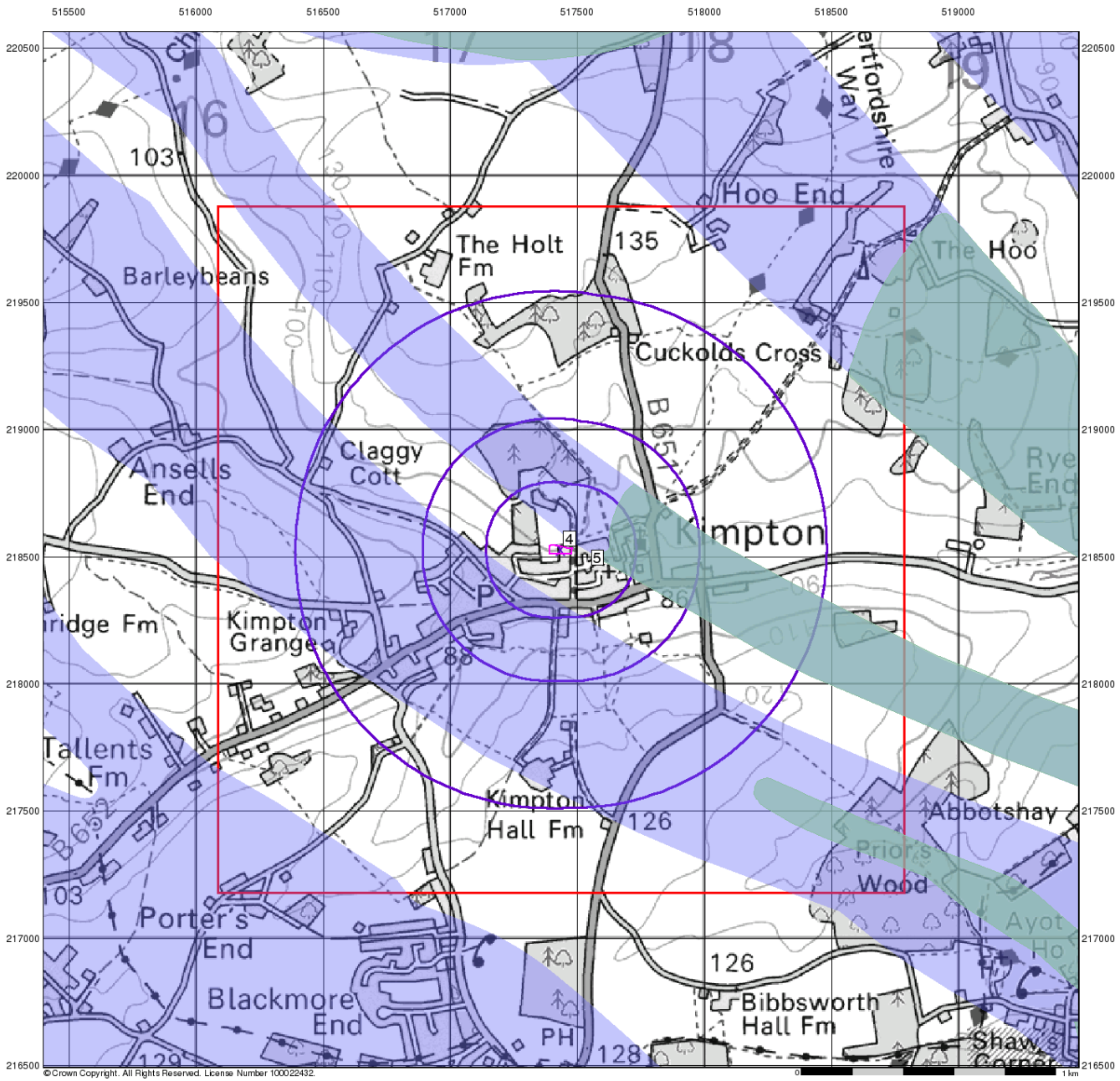
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Source Protection Zones

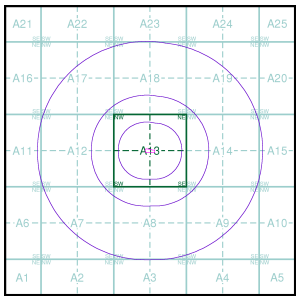
General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A

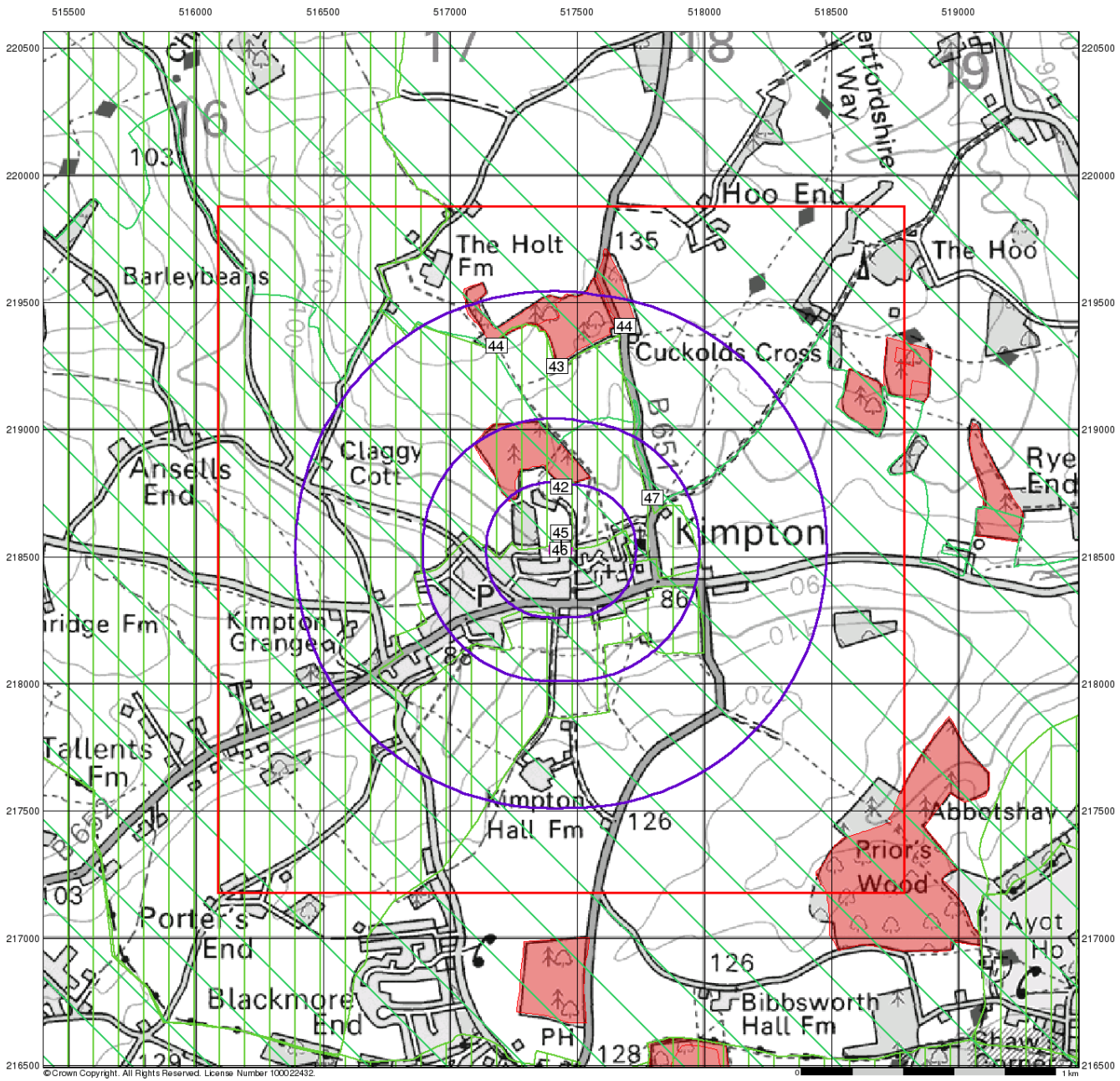


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Sensitive Land Uses

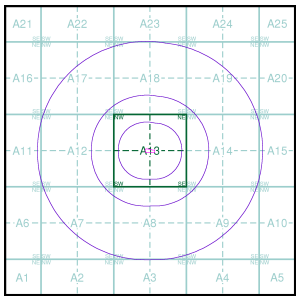
General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Sensitive Land Uses

- Ancient Woodland
- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area
- World Heritage Sites

Site Sensitivity Context Map - Slice A



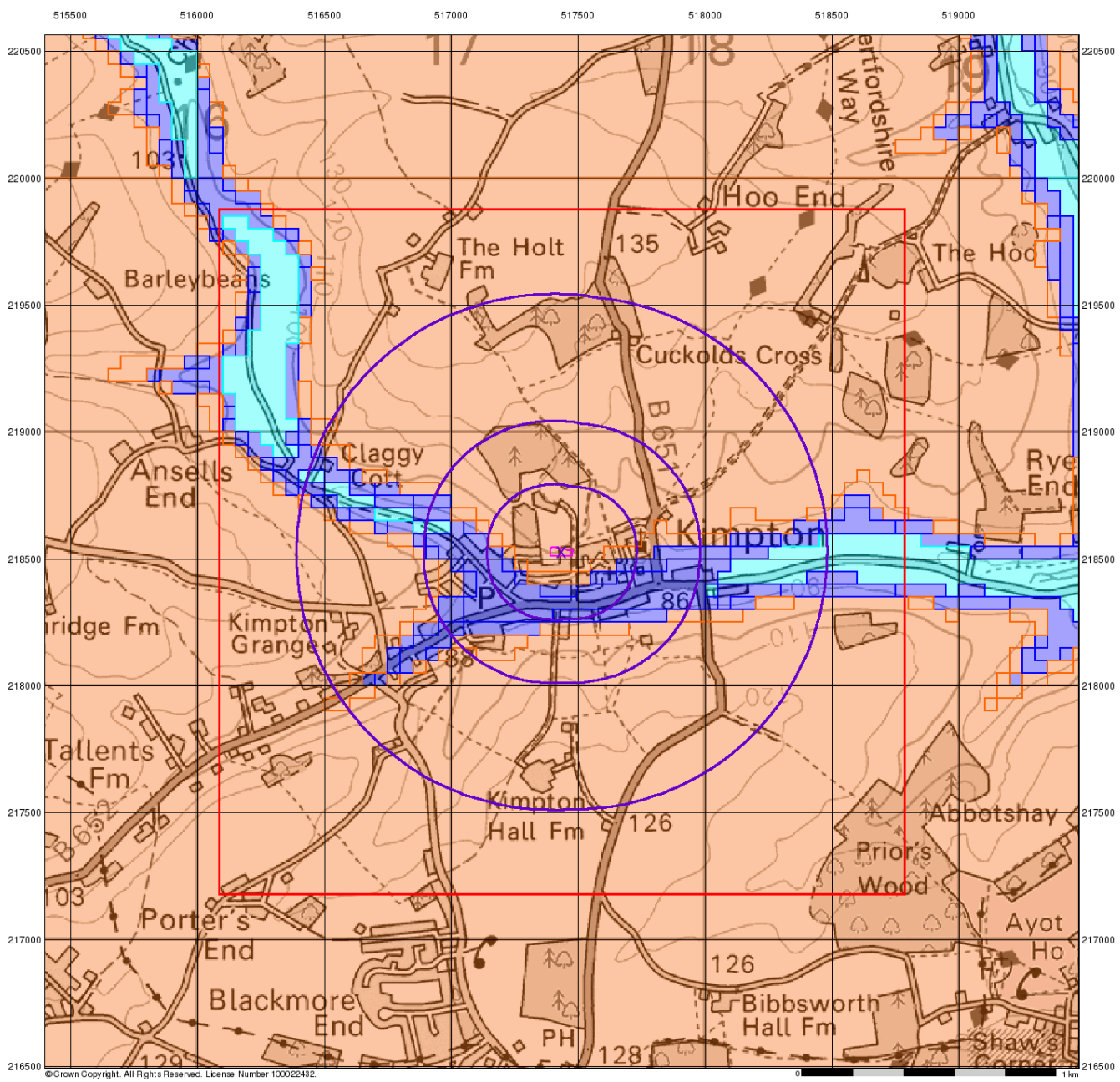
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BGS Flood GFS Data

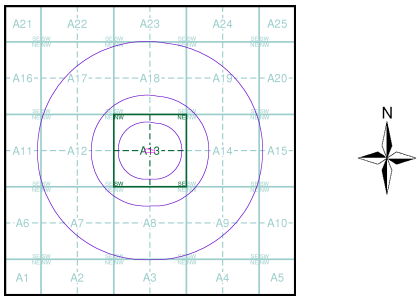
General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice A



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