

Land at Eaton Close, Harrow

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Environmental - Geotechnical - Laboratory - Foundations

13 Triangle Business Park, Stoke Mandeville, HP22 5BL

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PHASE ONE GEO-ENVIRONMENTAL DESK STUDY REPORT (PRELIMINARY RISK ASSESSMENT)



Report Prepared By:

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A handwritten signature in black ink, appearing to be 'D Eastland'.

Duncan Eastland

Client: London Borough of Harrow	Subadra Consulting Ltd. Registered in England No. 4586038 Registered Office 13 Triangle Business Park, Stoke Mandeville, HP22 5BL	Report	LA20008 CL 002
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List of Attachments

Attachment One:	Notice to Interested Parties
Attachment Two:	Environmental Data Report and Historical Maps
Attachment Three:	Geo-Hazards Report

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1 Introduction

1.1 The Purpose of This Assessment

The site is located on Eaton Close in Harrow and comprises a row of domestic garage/lock-ups owned by London Borough of Harrow. We understand that London Borough of Harrow proposes to sell the site as part of the Greater London Authority small sites programme, which is a programme where small publicly-owned sites are brought forward for future redevelopment in the private sector.

In advance of selling the site, we have been commissioned by London Borough of Harrow to undertake a Phase One Geo-Environmental Report (also known as a Preliminary Risk Assessment).

The purpose of this assessment was to develop an initial conceptual site model of the site and establish whether or not there are potentially unacceptable risks to sensitive receptors from potential contaminants that may be present in the soil and/or groundwater under the site. We have not carried out any intrusive investigation of the site and have made no measurements of actual contamination levels that may be present.

Our assessment has been undertaken in accordance with the guidelines presented in the Environment Agency, 'Model Procedures for the Management of Land Contamination'¹. and Environment Agency Guidance on Requirements for Land Contamination Reports².

As part of this assessment we have also undertaken a desk based review of how various geotechnical considerations may impact upon the proposed development scheme.

All the activities comprising this assessment were carried out in accordance with the procedures set out in our Quality Manual. Your attention is drawn to the Notice to Interested Parties included as Attachment One.

1.2 The Scope of This Assessment

Our assessment includes:

- A review of geological, hydrogeological and hydrological information to establish environmental sensitivities at the site and in its vicinity;
- A review of available historical information to determine the historical use of the site and its immediate surroundings;
- Compilation of a Conceptual Site Model and completion of a Qualitative Risk Assessment;
- A preliminary assessment of potential geotechnical engineering considerations;
- Preparation of a report, outlining findings and recommendations, including requirements for any further work;

The findings and opinions in this review are based upon information obtained from the sources outlined above. Information obtained from third parties has been accepted at face value however we do not guarantee its authenticity. Where practicable the information provided was confirmed from a secondary source such as the review of available municipal records.

As site comprises domestic lock-ups/garages, we have not completed a site inspection as part of this desk study review as we do not consider it would add to our conceptual understanding of potential contaminant sources.

¹ DEFRA and Environment Agency (2004) "Model Procedures for the Management of Land Contamination" Report CLR 11 Environment Agency, Bristol.

² Environment Agency (2005) "Guidance on Requirements for Land Contamination Reports" Version 1.

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1.3 Previous Reports Relating to the Site

We do not hold, and have not been provided with any, previous reports relating to the site.

1.4 Proposed Development Plans

Proposed Developments

We understand that London Borough of Harrow proposes to sell the site as part of the Greater London Authority small sites programme, which is a programme where small, publicly-owned site's are forward for future redevelopment in the private sector.

At this stage we are not aware of the detailed scope of the proposed future redevelopment, although we understand the site will most likely be developed with residential property(s).

We understand that this report is to be submitted in support of a planning application for the site's redevelopment. Whilst our assessment has not been compiled to directly satisfy any specific planning conditions the information contained in this report may assist in satisfying any such requirements. We note however that further works may be required.

Table One: Proposed Development Plans

2 Desk Study Information

2.1 Site Description, Location and Setting

Site Description	The site comprises three rows of domestic garages/lock ups, located at the end of Eaton Close. One row of garage/lock-ups is located in the northern portion of the site and two rows are located in the southern portion of the site. The site and the surrounding area generally slopes towards the south.		
Grid Reference	516790 192710	Location	The site is located in a suburb of Harrow, approximately 4.7km to the north east of Harrow town centre.
Elevation (approx)	110m AOD		
Size (approx)	0.06ha		

Table Two: Site Location and Setting

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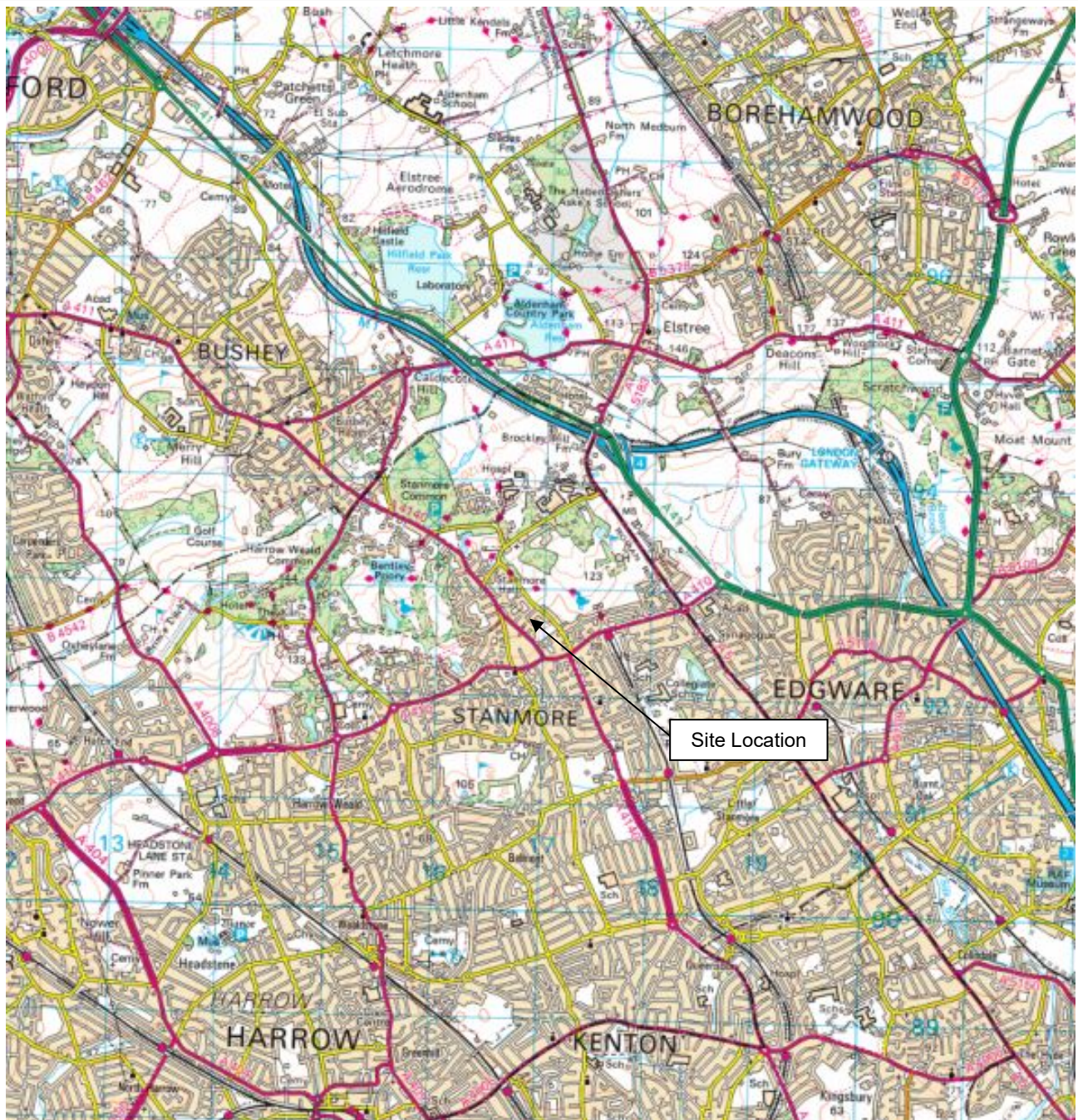


Figure One: Site Location Map

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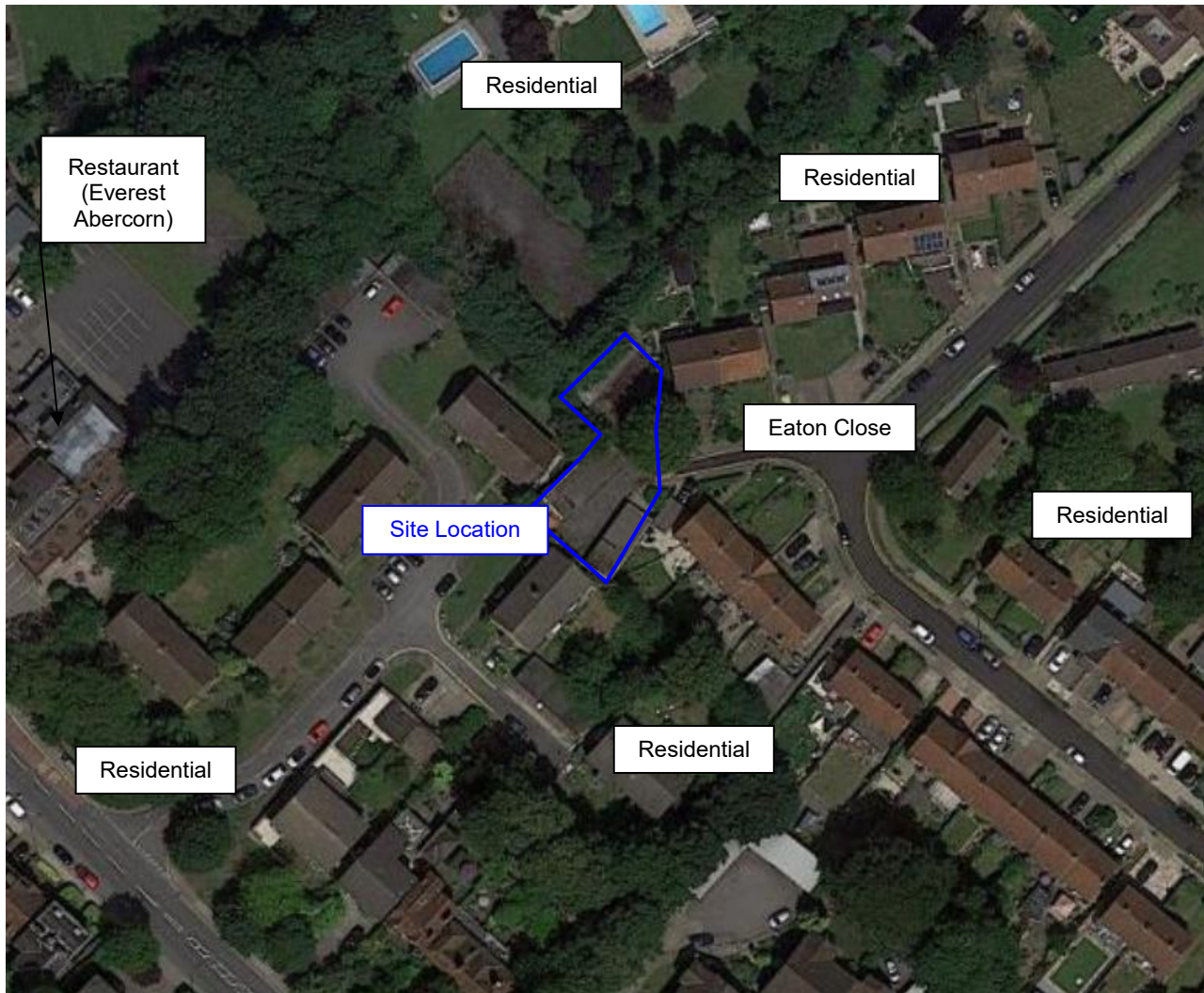


Figure Two: Aerial Photograph Showing Site and Surrounding Area

Direction	Details
North East	There are residential properties located within 5m of the north eastern site boundary
East	There are residential properties located within 5m of the eastern site boundary
South West	There are residential properties located within 5m of the south western site boundary
North West	There are residential properties located within 5m of the north western site boundary

Table Three: Surrounding Land Use

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2.2 Geology, Hydrogeology and Hydrology

	Geological Unit	Description	Estimated Thickness	Data Source
Drift Geology	None described at the site's locality			British Geological Survey (BGS)
Solid Geology	London Clay Formation	Blue-grey or grey-brown clay.	>20m	
Nearby Borehole Records	The BGS hold records for a borehole constructed 300m to the south east of the site (BGS ref. TQ19SE226). This records underlying geology to comprise a thin layer of topsoil overlying stiff dark brown clay to 12.2m depth.			

Table Four: Regional Geology

	Geological Unit	Environment Agency Aquifer Classification	Data Source
Drift Geology	None described at the site's locality		Environment Agency
Solid Geology	London Clay Formation	Unproductive Stratum	
Nearby Borehole Records	The BGS borehole referenced above describes the borehole as dry.		BGS

Table Five: Regional Hydrogeology

	Description	Distance	Direction	Data Source
Surface Water Features	Land Drain (orientated north to south with, terminating in a pond ~180m to the north west)	~150m	North West	Ordnance Survey

Table Six: Regional Hydrology

Abstraction	Surface Water			Groundwater		
	Distance	Direction	Purpose	Distance	Direction	Purpose
Nearest	None within 1km of the site					
Nearest Public Water Supply						
Source Protection Zone	The site does not lie within a designated Source Protection Zone					
Site located in an Environment Agency defined 'Drinking Water Safeguard Zone'			Surface Water		No	
			Groundwater		No	
Data sourced from Environment Agency						

Table Seven: Nearest Surface and Groundwater Abstractions

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2.3 Site History

2.3.1 Historical Maps

Date	Review of Map – Description of Land Use at Site and in the Immediate Surrounding Area	Potentially Contaminative Land-use	
		On-site	Off-site
1865 / 1896 (1:2,500 Scale) 1968 (1:10,560 Scale)	The site is unused. The land to the immediate west of the site is described as the Royal Hotel and incorporates gardens, a pond (75m) and the main hotel building (100m) which is in the same location as the present day Everest Abercorn restaurant. There is an infant school (50m) and residential properties (75m) to the south, a post office (75m) and smithy (110m) to the south west and a second pond located 100m to the north west. There is a reservoir (later mapping describes as an old gravel pit) located 750m to the north.	None identified	Smithy (110m south west)
1914 / 1935 (1:2,500 Scale)	The site remains unused although there is a very small pond located in the south western corner of the site. The smithy located 110m to the south west is no longer present. There are now residential properties located 75m to the north east.		None identified
1962 (1:1,250 Scale)	The site remains unused and the pond is no longer present. The surrounding area has been developed with residential properties in the same configuration as the present day.		
1991 (1:1,250 Scale)	The site has been developed with domestic garage/lock-ups in the same configuration as the present day. The area surrounding the site remains largely unchanged.	Potential storage of oils/lubricants for domestic purposes, although risk is considered very low.	

Copies of representative historical maps are included as Attachment Two

Table Eight: Historical Maps Review

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2.3.2 Planning Records

Date	Application Number	Local Planning Authority – Planning Records (from local planning authority website)	Evidence of Development
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Harrow Council's on-line planning portal contains no planning records for the site location.

Table Nine: Summary of Online Planning Records

2.4 Additional Information

Flood Risk Zone	Flood Risk	Data Source
Zone 1	These are areas that are defined as having a low probability of flooding (land having a less than 1 in 1,000 annual probability of river or sea flooding). On this basis, and as the site is less than 1 hectare, a flood risk assessment is not likely to be required as part of future planning applications.	Environment Agency

Table Ten: Preliminary Flood Risk Assessment

Risk	Description	Data Source
Radon Risk	The site is located in an area where the National Radiological Protection Board have determined that <1% houses exceed the recommended Action Level for radon for existing homes in the UK of 200Bqm ⁻³ (averaged over a year). No radon protective measures are necessary in the construction of new dwellings or extensions.	Public Health England
Nearest Landfill	The Environment Agency records show that there are no current or past landfill sites within 250m of the site.	Environment Agency
Degradable Material within Made Ground	Although the site has been developed, the garage/lock-ups are relatively small structures and we do not anticipate significant thickness of Made Ground to be associated with these structures. There is potential for degradable material to be present in any Made Ground historically imported to the site to in-fill the pond that was present at the site in 1914 and 1935.	Historic Mapping
Peat and Organic Matter within Alluvial Deposits	No viable source identified. No superficial deposits shown to be present beneath site or immediately surrounding area.	BGS
Degradation of Spilled or Leaked Petroleum Hydrocarbons	No viable source identified. Although there may have been potential storage of oils/lubricants for domestic purposes in the garage/lock-ups, we consider that this represents a very low risk to impacting underlying soils.	Historic Maps/ Ordnance Survey

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Risk	Description	Data Source
Natural Deposits (e.g. Coal measure strata).	No viable source identified. Our geological review indicates surface geology comprises London Clay Formation, which is not considered a viable source of potentially hazardous ground-gas.	BGS
Organic Rich Silt Formed in Water Bodies (e.g. Ponds, docks and rivers).	Maps from 1914 and 1935 show the presence of a very small pond located in the south western corner of the site, which was no longer present in 1962 maps (assumed in-filled?)	Historic Mapping
Conclusions	We have identified potential sources of hazardous ground gases associated with the site. The site is therefore might be at-risk of impact from concentrations of hazardous ground gases. We therefore consider further investigation and/or assessment may be required.	

Table Eleven: Hazardous Ground Gas Risk

Risk	Description	Data Source
Risk of Coal Mining	The site is not located in an area considered to be at potential risk from coal mining.	Coal Authority
Records of Ground Workings and Non-Coal Mining	There are no records of underground working and/or non-coal mining activities within 250m of the site. Records of a surface ground workings describe a pond, dated 1895, as located 50m to the north west. There are records of such surface ground working at the site location.	Groundsure Report
Solution Feature Risk	The site's location has been classified as 'Negligible Hazard' for risks associated with ground dissolution of soluble rocks This classification indicates the soluble rocks present at considerable depth beneath the site (Chalk is expected to be >50m depth) are not prone to dissolution at this location.	
Shrinking or Swelling Clay	The site's location has been classified as 'Moderate Hazard' for risks associated shrinking or swelling clays. We consider this classification is associated with the underlying London Clay Formation, which are likely to be predominantly comprised of high plasticity soils.	
Compressible Deposits	The site's location has been classified as 'Negligible Hazard' for risks associated with compressible deposits. We consider this classification is associated with the underlying London Clay Formation. This classification indicates compressible deposits such as layers of very soft clays and peats, which can compress if loaded by overlying structures, are unlikely to be present within the London Clay Formation beneath the site.	

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Risk	Description	Data Source
Collapsible Deposits	<p>The site's location has been classified as 'Very Low Hazard' for risks associated with collapsible deposits.</p> <p>We consider this classification is associated with the underlying London Clay Formation. This classification indicates deposits with potential to collapse when loaded and saturated are unlikely to be present within the London Clay Formation beneath the site.</p>	Groundsure
Running Sands	<p>The site's location has been classified as 'Very Low Hazard' for risks associated with running sand.</p> <p>We consider this classification is associated with the underlying London Clay Formation. This classification indicates there is a very low potential for running sand problems within the London Clay Formation beneath the site.</p>	
Landslides	<p>The site's location has been classified as 'Very Low Hazard' for risks associated with landslides.</p> <p>We consider this classification is associated with the underlying London Clay Formation. This classification indicates slope instability problems within the London Clay Formation are unlikely to be present at the site.</p> <p>We note however this site is located on a slope and removal and/or changes to any retaining wall features that might be present behind the garage/lock-up's may increase the risks associated with ground instability.</p>	

Table Twelve: Other Geological Hazards

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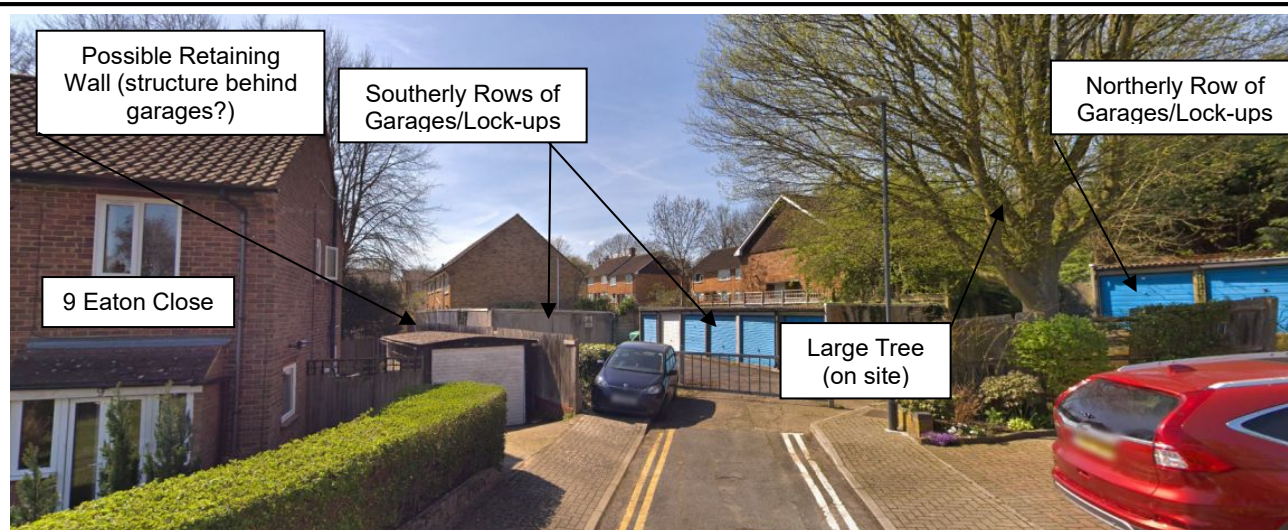
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3 Site Photographs

Although the scope of this desk study report does not include a site inspection, we have collated photographs of the site from on-line mapping services and provided these below.



Photograph One: Image of the site in November 2012



Photograph Two: Image of the site in April 2018

Note: Images obtained from Google Streetview on-line mapping.

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4 Preliminary Risk Assessment

4.1 Conceptual Site Model

We have used the information presented in the previous sections of this report to create an outline Conceptual Site Model for the site. We have reviewed potential contaminants and their receptors together with any possible pathways that may link them. The resulting pollutant linkages are summarised below.

Contaminant	Pathway	Receptor	Viable Pollutant Linkage
<p>Our historic review indicates the site was unused prior to its use as domestic garages/lock-ups since the early 1990's.</p> <p>Although there may have been potential storage of oils/lubricants for domestic purposes in the garage/lock-ups, we consider this represents a very low risk, especially as the internal flooring is likely to be constructed from concrete which would act as a physical barrier.</p> <p>A pond was present at the site, which was in-filled between 1930's and 1960's, with an unknown material, that may potentially contain contaminants or generate potentially hazardous ground-gases.</p>	Ingestion and dermal contact	Future residents	Possible - From in-filling of former pond. Assumes future residential properties will have landscaped/garden areas.
	Permeation of volatile contaminants into drinking water supply service pipes		Possible - From in-filling of former pond. Although future drinking water supply pipework can be protected through the future use of hydrocarbon resistant barrier pipe.
	Volatilisation of hydrocarbons to indoor/outdoor air (either direct from soils or dissolved in groundwater)		Possible - From in-filling of former pond.
	Off-site migration of hydrocarbons: volatilisation to indoor/outdoor air (vapours from on-site soils or via lateral migration of dissolved compounds)	Neighbouring residents (<5m in all directions)	Subject to the concentrations of potential contaminants present beneath the site.
	Downward migration of contaminants to groundwater	London Clay Formation (unproductive Aquifer)	No - No viable receptor identified.
	Off-site migration of contaminants dissolved in groundwater leading to direct impact of environmental receptors	Land drain (150m North West)	No - No viable pathway identified.
	Accumulation of ground-gas within or beneath future buildings	Future residents and buildings	Possible, subject to the concentrations of potentially hazardous ground-gases present beneath the site.

Table Thirteen: Conceptual Site Model

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5 Conclusions and Recommendations

5.1 Environmental Conclusions

Site Details	<p>The site comprises a plot of garage/lock-up's owned by London Borough of Harrow. We understand that London Borough of Harrow proposes to sell the site as part of the Greater London Authority small sites programme, which is a programme where small publicly-owned sites are brought forward for future redevelopment in the private sector.</p> <p>At this stage we are not aware of the detailed scope of the proposed future redevelopment, although we understand the site will most likely be developed for residential end use.</p>
Review of Environmental Site Sensitivity	<p>The site is located in an area of low environmental sensitivity.</p> <p>Geology maps indicate underlying geology comprises London Clay Formation which typically comprises stiff grey to grey blue clay. The Environment Agency classify this geological unit as an Unproductive Aquifer and is therefore unlikely to contain significant qualities of groundwater. A nearby borehole record identified clay to 12.2m depth and no groundwater was present.</p> <p>The nearest surface water feature is a land drain located 150m north west. There are no surface water or groundwater abstractions located within 1km and the site is not located in a Source Protection Zone.</p>
Review of Site History and Potential Contaminant Sources	<p>Our historic review indicates the site was unused prior to its use as domestic garages/lock-ups since the early 1990's.</p> <p>Although there may have been potential storage of oils/lubricants for domestic purposes in the garage/lock-ups, we consider this represents a very low risk, especially as the internal flooring is likely to be constructed from concrete which would act as a physical barrier.</p> <p>A pond was present at the site, which has been in-filled between 1960's and 1990's with an unknown material, which may potentially contain contaminants or generate potentially hazardous ground-gases.</p>
Conclusions	<p>Based on the results of our desk-top review, we have identified potentially viable pollutant linkages present at the site, namely the risks associated with the potential for contaminants to be present in the shallow soils and potential for hazardous ground gases to be present, associated with the in-filling of a pond that occurred between 1930's and 1960's.</p>

Table Fourteen: Environmental Conclusions

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5.2 Geotechnical Considerations

Anticipated Geology and Hydrogeology	<p>Geology maps indicate underlying geology comprises London Clay Formation which typically comprises stiff grey to grey blue clay. The Environment Agency classify this geological unit as an Unproductive Aquifer and is therefore unlikely to contain significant qualities of groundwater. A nearby borehole record identified clay to 12.2m depth and no groundwater was present.</p> <p>An intrusive geotechnical investigation would be required to confirm the nature of the geology beneath the site, and allow an assessment of the soil strength profile and engineering properties, to assist with the design of appropriate foundations and highlight potential development constraints.</p>
Existing Foundations	<p>We consider it likely the existing garage/lock-up's have mass concrete foundations, possibly with simple mesh reinforcement (although this would need to be verified on site).</p>
High Plasticity Soils	<p>The site's location has been classified as 'Moderate Hazard' for risks associated shrinking or swelling clays. We consider this classification is associated with the underlying London Clay Formation, which are likely to be predominantly high plasticity soils.</p> <p>The BGS advise developers should not plant or remove trees or shrubs near to buildings without expert advice about their effect and management. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a possible increase in construction cost to reduce potential shrink-swell problems.</p>
Trees	<p>The photographs taken of the site in 2012 and 2018 show the presence of a mature tree in the eastern portion of the site. Given the soils beneath the site are likely to be of high plasticity, the presence of the tree is likely to impact on the design of foundations for the development. Minimum foundation depths will need to be calculated in accordance with NHBC methodology; this will require the scope of future geotechnical investigation to include collection of soil plasticity data.</p>
Use of Soakaways	<p>The London Clay Formation is likely to comprise cohesive soils of low permeability. In this instance, the use of soakaways is unlikely to be suitable to receive surface water run-off from the site buildings.</p>
Areas of Made Ground and/or Soft Ground	<p>Should Made Ground and/or soft regions of clay, be encountered we recommend they be replaced with suitably compacted inert granular fill material in the vicinity of proposed foundations to ensure a suitable bearing capacity for its intended purpose.</p>
Temporary Support Measures	<p>Based on our geological review, shallow excavations for foundation installations are likely to be formed within clay which is likely to remain stable for short periods without support or being battered back. An assessment of side wall stability will need to be undertaken on site, once ground conditions have been established.</p>
Waste Classification	<p>Soil excavated from the site from excavations for foundation installations are likely to be classified as inert or non-hazardous for waste disposal purposes, although confirmatory analysis may be required by the receiving landfill. Any soil excavated from the site requiring disposal should only be sent to an appropriately licensed waste management/disposal facility using an appropriately licensed waste carrier.</p>

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Slopes / Slope Stability and Retaining Walls	The site slopes to the south and, although its not fully clear from the photographs we have of the site, there might be retaining wall structure behind each of the rows of garages/lock-ups in the southerly portion of the site (as highlighted in Photograph One and Two). If present, these structures will need to be investigated to confirm if they will be suitable for future reuse or will need replacement/upgrading. We note that any retaining walls present, or to be constructed at the site, are potentially subject to party wall consent.
UXO	The site is classified by Zetica interactive mapping as being located in an area of Greater London with low bombing density. We understand that our client has commissioned a third-party a preliminary UXO risk assessment for the site.
Presence of Unrecorded Buried Obstructions	Prior to the construction of the existing garage/lock-up's the site was undeveloped but contained a pond in the southern portion. There is potentially buried obstructions present beneath the site associated with this in-filling of this pond.
Excavations and Ground Water	The London Clay Formation's classification as an Unproductive Aquifer, and the absence of groundwater in a nearby borehole drilled to 12.2m, indicates de-watering of shallow excavations is unlikely to be required. Please note, however, following periods of heavy rain, surface water may pond in open excavations and appropriate allowance should be made for this.
Services	A below ground utility survey should be completed as part of pre-enabling works, to assist with determining how buried utilities may impact upon the proposed redevelopment.
Geotechnical Categorisation:	<p>Eurocode 7 introduced a system of three geotechnical categories (Geotechnical Category One, Two, Three) as described below.</p> <p>Geotechnical Category One: Defined as a category that should only include small and relatively simple structures for which it is possible to ensure that the fundamental requirements will be satisfied on the basis of experience and qualitative geotechnical investigations with negligible risk.</p> <p>Geotechnical Category Two: Defined as a category that relates to conventional types of structures and foundations with no exceptional risk or difficult soil or loading conditions. The fundamental requirements are satisfied using quantitative geotechnical data and analysis by a qualified person with appropriate geotechnical experience and knowledge.</p> <p>Geotechnical Category Three: Defined as a category that contains structures that can be very large and unusual, exceptionally or unusually difficult structures or ground conditions in highly seismic area. The design of structures of this category requires an experienced geotechnical specialist like a geotechnical engineer. Some examples of this category are very large buildings, large bridges, tunnels in highly or soft permeable ground, embankments on soft ground and deep excavations.</p> <p>We have not been provided sufficient information about the scope of the proposed redevelopment in order to fully define its geotechnical category, however we consider it likely to the development will be defined as either Category One or Two. The geotechnical category should be reassessed throughout the design progresses.</p>

Table Fifteen: Geotechnical Considerations

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5.3 Recommendations

We make the following recommendations relating to the proposed development:

Environmental Investigation	<p>We recommend that a Phase II environmental investigation is undertaken to allow an assessment of the underlying ground conditions to determine if potentially complete pollution linkages are present, specifically the risk due associated with the potential for contaminants to be present in the shallow soils and potential for hazardous ground gases to be present, associated with the in-filling of a pond that occurred between 1930's and 1960's.</p> <p>The investigation should primarily target contaminant concentrations in shallow soils, especially in the southern portion of the site where the pond was previously present, to confirm they do not pose a risk to future or neighbouring residents. As part of this investigation, we recommend ground-gas monitoring wells be installed and a programme of hazardous ground-gas monitoring be undertaken to establish if ground-gas concentrations potentially pose a risk to future residents. Additionally, we could undertake some preliminary permeability testing to verify infiltration rates of shallow soils to confirm if the use of soakaways are suitable for the site.</p>
Geotechnical investigation	<p>We have identified several geotechnical risk factors and uncertainties associated with the site. We therefore recommend that a geotechnical site investigation is completed in order to provide information regarding soil properties and ground conditions.</p> <p>We note that significant costs savings could be made by combining the environmental and geotechnical investigations by avoiding duplication of work.</p>
Establishing of Tree Species	<p>We recommend that the species of any trees present at or near to the site be established, and geotechnical laboratory testing of shallow soils be completed, and specialist advice sought to confirm how/if the trees will influenced foundation design.</p>
Pre-demolition Asbestos	<p>We recommend an asbestos survey of garage/lock-up's be undertaken prior to demolition in order to determine whether asbestos containing materials are present and, if so, to determine a suitable remedial strategy for their removal. We recommend that surveying and any removal/remediation is completed by a specialist contractor.</p>
Regulator Consultation	<p>We recommend that this report is forwarded to the relevant statutory consultees including the Environment Agency and Local Authority to seek their comments and subsequent approval.</p>

Your attention is drawn to the Notice to Interested Parties included as Attachment One.

Table Sixteen: Recommendations

Client: London Borough of Harrow	Phase One Geo-Environmental Desk Study Report	Report	LA20008 CL 002
		Date	March 2020
		Page	17

Eaton Close, Harrow

SUBADRA

Environmental - Geotechnical - Laboratory - Foundations

13 Triangle Business Park, Wendover Road
Stoke Mandeville, Bucks HP22 5BL

Tel. 01296 739400 Email: consultants@subadra.com

**ATTACHMENT ONE:
NOTICE TO INTERESTED PARTIES**

Client: London Borough of Harrow

Report

LA20008 CL 002

Date

May 2020

Page

Attachment One - 1

NOTICE TO INTERESTED PARTIES

The purpose of our work is to provide general information on the environmental and/or geotechnical conditions existing at the site and related to soil and/or groundwater. The Client or others specified the scope of the investigation and the validity of our conclusions is limited by the scope of work specified. We are not responsible for any such limitations or omissions.

Where stated in this report, we have used information supplied by third parties. While we have evaluated as far as possible the validity of this information, we cannot guarantee its accuracy in any way whatsoever.

No investigation technique is capable of completely identifying all of the contaminants that might be present in the soil or groundwater under a site. Where specified in our report, we have examined the ground by constructing a number of boreholes and/or trial pits. We recovered samples of soil and/or groundwater from available exposures.

The depth and spacing of our Sampling locations were selected to ensure with a reasonable probability that they would be representative of the actual conditions across the whole site. However, safety considerations relating to existing site infrastructure may have restricted our ability to investigate all potential contaminant sources. Specifically, we were unable to investigate the soil and groundwater condition immediately adjacent to the underground structures and/or buried services. These limitations must be borne in mind when considering the conclusions reached in this report.

Soil is intrinsically variable and the spread of contaminants within the soil is therefore subject to a degree of non-uniformity. For these reasons no sampling technique can completely eliminate the possibility of obtaining samples that are not representative of the actual conditions. Our sampling techniques are intended to reduce the possibility to an acceptable level, within the limits imposed by the scope of the investigation.

Groundwater levels and soil vapour levels that we report were accurate at the time of the investigation. Groundwater and soil vapour levels are variable. Long term monitoring may be required to ensure that the levels recorded during our investigation are representative of long term and possible 'worst case' conditions. In accepting our recommendations and/or conclusions the Client acknowledges that further, more detailed investigation would allow a more accurate assessment of site conditions to be made and that this would reduce any consequential risk to the Client.

Our investigation was carried out to assess the significance of contamination resulting from use of the site as identified in this report. Unless we have indicated otherwise, no assessment of the potential impact of any other previous uses has been made. No investigation was carried out to determine whether or not any deleterious or hazardous materials (such as asbestos) have been used in the construction of the buildings present on the site. Unless otherwise stated no investigation or assessment has been made of the presence or otherwise of invasive plant species including but not limited to Japanese Knotweed.

Unless specifically stated otherwise, we have not assessed the effect of any proposed future construction activities on existing structures on or near to the site. Nor, unless stated otherwise, have we assessed the likely effect of trees on existing or proposed structures on or near the site.

We do not accept any responsibility for the cost of remedial works or other costs incurred in whatever way whatsoever as a result of any omissions, errors or other shortcomings in this report unless we have been given reasonable opportunity to verify ourselves that such faults exist and we have been given a reasonable opportunity to carry out works to remedy such faults ourselves using the most practicable means available to us. We do not accept liability for any consequential losses incurred by you while either we or others carry out any remedial works we deem necessary.

This report has been prepared for the Client, as specified on the cover page of this report. In accepting our recommendations and/or conclusions the Client accepts that the terms of our appointment were as detailed in the Proposal, or Proposals, that we provided to the Client before being appointed and that these terms supersede any other terms and/or conditions set out in any contracts agreed between ourselves and the Client, regardless of when such terms and/or conditions were agreed to by us and/or signed by us.

Use of, and reliance on, this report by other third parties will be at such third parties own risk, and we do not accept any liability or responsibility to them.

Neither the whole nor any part of this report, or any reference to it, may be included in any published document circular or statement or published in any way without our prior written approval.

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Client: London Borough of Harrow

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Date	May 2020
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Eaton Close, Harrow

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Environmental - Geotechnical - Laboratory - Foundations

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**ATTACHMENT TWO:
ENVIRONMENTAL DATA REPORT AND HISTORICAL MAPS**

Client: London Borough of Harrow

Report	LA20008 CL 002
Date	May 2020
Page	Attachment Two - 1

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

237926099_1_1

Customer Reference:

LA20008

National Grid Reference:

516790, 192710

Slice:

A

Site Area (Ha):

0.06

Search Buffer (m):

1000

Site Details:

9, Eaton Close

STANMORE

HA7 3BT

Client Details:

Mr S Partridge

Subadra Consulting Ltd

Unit 13 Triangle Business Park

Wendover

Bucks

HP22 5BL

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	13
Hazardous Substances	-
Geological	15
Industrial Land Use	16
Sensitive Land Use	21
Data Currency	23
Data Suppliers	29
Useful Contacts	30

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 this 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

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	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1			1	8
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	pg 3		1	2	1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 4		Yes		
Pollution Incidents to Controlled Waters	pg 4				9
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 5				(*1)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 6	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 6	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
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 6		5	5	45

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	pg 13			1	
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 13			1	
Licensed Waste Management Facilities (Locations)	pg 13				1
Local Authority Landfill Coverage	pg 13	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 13				1
Registered Landfill Sites	pg 14				1
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					
Geological					
BGS 1:625,000 Solid Geology	pg 15	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 15				1
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					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 15	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 15	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 15	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 15	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

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 16		11	18	17
Fuel Station Entries	pg 20		1		
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 21			1	5
Areas of Adopted Green Belt	pg 21		1		
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves	pg 21		1		2
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 21				1
Ramsar Sites					
Sites of Special Scientific Interest	pg 22				1
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	A13NW (N)	270	1	516750 193000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	329	1	516700 193050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	467	1	516800 193200
1	Discharge Consents Operator: Wood Farm (Stanmore) Limited Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Wood Farm Wood Lane Stanmore Middlesex Ha7 4lj Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Eprab3596ak Permit Version: 2 Effective Date: 3rd June 2015 Issued Date: 3rd June 2015 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: A Tributary Of Edgware Brook Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	423	2	517088 193031
2	Discharge Consents Operator: Wood Farm (Stanmore) Limited Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Wood Farm Wood Lane Stanmore Middlesex Ha7 4lj Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Eprab3596ak Permit Version: 1 Effective Date: 1st January 2015 Issued Date: 7th July 2014 Revocation Date: 2nd June 2015 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: A Tributary Of Edgware Brook Status: New issued under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A18SE (N)	636	2	516909 193357
3	Discharge Consents Operator: Heronslea Limited Property Type: WASTE COLLECTION/TREATMENT/DISPOSAL/MATERIALS RECOVERY Location: Land Adj To Lion Lodge Off Wood Lane/Warren Lane Stanmore Middlesex Ha7 4lf Authority: Environment Agency, Thames Region Catchment Area: Thames - Kingston/Teddington Reference: Canm.0854 Permit Version: 1 Effective Date: 14th January 2005 Issued Date: 1st December 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Groundwater Via Soakaway Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A18NW (N)	693	2	516600 193400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: Parkview Homes Ltd Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 10 Housing Units Limes House Site Warren Lane Stanmore Middlesex Ha7 4fb Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Catm.3026 Permit Version: 2 Effective Date: 8th January 2013 Issued Date: 8th January 2013 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Onto Land Environment: Receiving Water: Stanmore Gravel Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A18NW (N)	822	2	516700 193550
4	Discharge Consents Operator: Parkview Homes Ltd Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 10 Housing Units Limes House Site Warren Lane Stanmore Middlesex Ha7 4fb Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CATM.3026 Permit Version: 1 Effective Date: 2nd October 1997 Issued Date: 2nd October 1997 Revocation Date: 7th January 2013 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Onto Land Environment: Receiving Water: Stanmore Gravel Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A18NW (N)	822	2	516700 193550
5	Discharge Consents Operator: Mrs Suzanne Berger Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 1 & 2 Garage Cottages And Cottage At Wood Farm Wood Lane Stanmore Middlesex Ha7 4lj Authority: Environment Agency, Thames Region Catchment Area: Brent Reference: Npswqd009487 Permit Version: 2 Effective Date: 21st December 2012 Issued Date: 21st December 2012 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Groundwaters Via Soakaway Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A18NE (N)	978	2	517084 193665
5	Discharge Consents Operator: London Borough Of Harrow Council Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 1 & 2 Garage Cottages And Cottage At Wood Farm Wood Lane Stanmore Middlesex Ha7 4lj Authority: Environment Agency, Thames Region Catchment Area: Brent Reference: Npswqd009487 Permit Version: 2 Effective Date: 21st December 2012 Issued Date: 21st December 2012 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Groundwaters Via Soakaway Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A18NE (N)	978	2	517084 193665

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: London Borough Of Harrow Council Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 1 & 2 Garage Cottages And Cottage At Wood Farm Wood Lane Stanmore Middlesex Ha7 4lj Authority: Environment Agency, Thames Region Catchment Area: Brent Reference: Npswqd009487 Permit Version: 1 Effective Date: 19th November 2009 Issued Date: 19th November 2009 Revocation Date: 20th December 2012 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Groundwaters Via Soakaway Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A18NE (N)	978	2	517084 193665
5	Discharge Consents Operator: Mrs Suzanne Berger Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 1 & 2 Garage Cottages And Cottage At Wood Farm Wood Lane Stanmore Middlesex Ha7 4lj Authority: Environment Agency, Thames Region Catchment Area: Brent Reference: Npswqd009487 Permit Version: 1 Effective Date: 19th November 2009 Issued Date: 19th November 2009 Revocation Date: 20th December 2012 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Groundwaters Via Soakaway Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A18NE (N)	978	2	517084 193665
6	Local Authority Pollution Prevention and Controls Name: Stanmore Filling Station Location: 65 Stanmore Hill, STANMORE, Middlesex, HA7 3DZ Authority: London Borough of Harrow, Environmental Health Services Permit Reference: EPA/AUTH/36 Dated: 31st January 2007 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Automatically positioned to the address	A13SW (S)	126	3	516737 192575
7	Local Authority Pollution Prevention and Controls Name: Global Dry Cleaners Location: 7 Church Road, Stanmore Authority: London Borough of Harrow, Environmental Health Services Permit Reference: EPA/PPC/Permit/57 Dated: 24th July 2007 Process Type: Local Authority Air Pollution Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Manually positioned to the address or location	A8NE (SE)	405	3	516958 192323
8	Local Authority Pollution Prevention and Controls Name: Swift Dry Cleaners Location: 20 The Broadway, Stanmore, Middlesex, HA7 4DW Authority: London Borough of Harrow, Environmental Health Services Permit Reference: EPA/PPC/Permit/82 Dated: 17th September 2007 Process Type: Local Authority Air Pollution Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Manually positioned to the address or location	A8NE (SE)	440	3	517062 192346
9	Local Authority Pollution Prevention and Controls Name: Mister Dry Cleaners Location: 74 The Broadway, Stanmore, Middlesex, HA7 4DU Authority: London Borough of Harrow, Environmental Health Services Permit Reference: PPC/Permit/66 Dated: 12th May 2009 Process Type: Local Authority Air Pollution Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Manually positioned to the address or location	A14SW (SE)	503	3	517181 192378

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Nearest Surface Water Feature	A13NW (NW)	140	-	516679 192820
10	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Bentley Priory, STANMORE Authority: Environment Agency, Thames Region Pollutant: Storm Sewage Note: Not Supplied Incident Date: 7th December 1998 Incident Reference: THNE1998041441 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	774	2	516000 192695
10	Pollution Incidents to Controlled Waters Property Type: Not Given Location: STANMORE Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 30th January 1992 Incident Reference: N1920058 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	774	2	516000 192700
11	Pollution Incidents to Controlled Waters Property Type: Not Given Location: STANMORE Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 27th April 1993 Incident Reference: NE930302 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NE (N)	828	2	517100 193500
12	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Masefield Avenue, STANMORE Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 22nd August 1996 Incident Reference: N1960454 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	872	2	516000 192300
13	Pollution Incidents to Controlled Waters Property Type: Not Given Location: STANMORE Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Confirmed As A Pollution Incident Incident Date: 23rd April 1990 Incident Reference: N1900182 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	910	2	516600 191800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Raf Stanmore Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 25th April 1990 Incident Reference: N1900188 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	935	2	516500 191800
14	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Temple Pond, STANMORE Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 12th March 1997 Incident Reference: THN11997031151 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	940	2	516500 191795
15	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Raf Stanmore Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 7th June 1993 Incident Reference: NE930464 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	990	2	516800 191700
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Montrose Walk, STANMORE Authority: Environment Agency, Thames Region Pollutant: General Note: Not Supplied Incident Date: 8th October 1998 Incident Reference: THNE1998040804 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	994	2	516700 191700
	Water Abstractions Operator: Mr Knott Licence Number: Th/039/0038/009 Permit Version: 1 Location: Stanmore Golf Club Borehole Authority: Environment Agency, Thames Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 17th June 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3NE (S)	1242	2	516875 191451

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Unproductive Aquifer (may have productive aquifer beneath) Classification: Combined Unproductive Vulnerability: Unproductive Bedrock Aquifer, No Superficial Aquifer Combined Aquifer: Low Pollutant Speed: Mixed Bedrock Flow: 300-550 mm/year Dilution: 40-70% Baseflow Index: <90% Superficial Patchiness: <3m Superficial Thickness: High Superficial Recharge:	A13SE (NE)	0	4	516787 192711
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	A13SE (NE)	0	4	516787 192711
	Superficial Aquifer Designations No Data Available				
	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				
17	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (NW)	147	5	516676 192828
18	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 9.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (NW)	169	5	516659 192841
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (NW)	177	5	516655 192850
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 86.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (NW)	194	5	516651 192870

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1060.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (SE)	238	5	516993 192570
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (NW)	252	5	516643 192938
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (NW)	252	5	516643 192938
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 423.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NE (E)	292	5	517090 192713
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 273.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SE (NE)	435	5	517026 193097
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SE (NE)	439	5	517043 193090
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 136.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SE (NE)	504	5	517039 193170
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 215.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SE (NE)	504	5	517039 193170
29	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 34.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SW (NW)	543	5	516492 193188

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 45.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SW (NW)	555	5	516514 193215
31	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 53.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NE (SW)	741	5	516195 192239
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NE (SW)	752	5	516220 192192
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NE (SW)	764	5	516237 192159
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 71.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NE (SW)	764	5	516240 192155
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 439.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NE (SW)	764	5	516237 192159
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SW (NW)	779	5	516101 193105
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SW (NW)	784	5	516099 193113
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 164.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SW (NW)	785	5	516090 193098

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NE (SW)	791	5	516272 192090
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NE (SW)	792	5	516270 192091
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 331.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NE (SW)	801	5	516269 192080
42	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 5.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	811	5	516530 193502
43	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 23.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	811	5	516006 192966
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	813	5	516525 193502
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 126.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	822	5	515955 192621
46	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 9.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	822	5	515955 192621
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	822	5	515989 192949

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	825	5	515983 192938
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	828	5	515951 192613
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 113.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	839	5	515964 192919
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 184.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	839	5	515964 192919
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 162.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SE (NW)	843	5	516186 193323
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	845	5	515936 192588
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 156.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	860	5	515923 192575
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	901	5	516479 191843
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	903	5	516493 191837

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 102.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	922	5	515904 193009
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17NE (NW)	929	5	516258 193495
59	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 174.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Temple Pond Catchment Name: Thames Primacy: 1	A8SW (S)	936	5	516705 191758
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	946	5	516541 191777
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	951	5	516722 191741
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 601.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NW (SW)	954	5	515901 192318
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NW (SW)	954	5	515901 192318
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 118.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	958	5	515861 192409
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	964	5	515845 192446

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	965	5	515843 192445
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 178.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	970	5	515834 192460
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 93.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SW (NW)	979	5	515879 193105
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SW (NW)	980	5	516053 193381
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	981	5	516760 191709
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 222.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	990	5	516772 191700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	Historical Landfill Sites Licence Holder: Stanmore Dairies Ltd Location: Wood Lane, Stanmore, Middx Name: Wood Farm, Stanmore Operator Location: Otterspool Way, Watford, Watford By Pass, Herts Boundary Accuracy: As Supplied Provider Reference: EAHLD35557 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 80064 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: Not Supplied	A14NW (NE)	403	2	517141 192934
73	Licensed Waste Management Facilities (Landfill Boundaries) Name: Wood Farm Licence Number: 80064 Location: Stanmore Dairies Ltd, Wood Farm, Wood Lane, Stanmore, Middx, HA7 4LJ Licence Holder: Stanmore Dairies Ltd Authority: Environment Agency - Thames Region, North East Area Site Category: Landfills Taking Other Wastes (Construction, Demolition, Dredgings) Max Input Rate: Not Supplied Licence Status: Inactive Issued: 17th February 1986 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A14NW (NE)	402	2	517138 192935
74	Licensed Waste Management Facilities (Locations) Licence Number: 80064 Location: Wood Farm, Wood Lane, Stanmore, Middlesex, HA7 4LJ Operator Name: Stanmore Dairies Ltd Operator Location: Not Supplied Authority: Environment Agency - Thames Region, North East Area Site Category: Landfills Taking Other Wastes (Construction, Demolition, Dredgings) Licence Status: Surrendered Issued: 17th February 1986 Last Modified: 19th May 1995 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 6th November 2006 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NE (N)	805	2	516858 193535
	Local Authority Landfill Coverage Name: London Borough of Harrow - Has supplied landfill data		0	3	516787 192711
75	Local Authority Recorded Landfill Sites Location: Wood Farm, Wood Lane, Stanmore Reference: Not Supplied Authority: London Borough of Harrow, Environmental Health Services Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Manually positioned within the geographical locality Boundary Quality: Not Applicable	A18SE (N)	653	3	517000 193350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	Registered Landfill Sites Licence Holder: Stanmore Dairies Ltd Licence Reference: DL225 Site Location: Wood Farm, Wood Lane, STANMORE, Middlesex, HA7 4LJ Licence Easting: 517100 Licence Northing: 193250 Operator Location: As Site Address Authority: Environment Agency - Thames Region, North East Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Site Closed Dated: 7th February 1986 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Construction And Demolition Wastes Prohibited Waste: Biodegradable/Putrescible Waste Clinical Wastes Notifiable Wastes Special Wastes	A18SE (NE)	604	2	517100 193250

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Thames Group	A13SE (NE)	0	1	516787 192711
77	BGS Recorded Mineral Sites Site Name: Little Common Gravel Pit Location: Stanmore, Greater London Source: British Geological Survey, National Geoscience Information Service Reference: 169839 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Pleistocene Geology: Stanmore Gravel Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	800	1	516317 193379
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	516787 192711
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	516787 192711
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	516787 192711
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	516787 192711
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	516787 192711
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	516787 192711
	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	A13SE (NE)	0	1	516787 192711
	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	A13SE (NE)	0	1	516787 192711

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	Contemporary Trade Directory Entries Name: M W Fabrics Ltd Location: 84, Stanmore Hill, Stanmore, Middlesex, HA7 3BU Classification: Textile Manufacturing Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	104	-	516679 192748
79	Contemporary Trade Directory Entries Name: Stanmore Cleaners Location: 73, Stanmore Hill, Stanmore, Middlesex, HA7 3DZ Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	112	-	516694 192624
80	Contemporary Trade Directory Entries Name: B P Service Station Location: 65, Stanmore Hill, Stanmore, HA7 3DZ Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (S)	127	-	516736 192574
80	Contemporary Trade Directory Entries Name: M R H Service Station Location: 65, Stanmore Hill, Stanmore, HA7 3DZ Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (S)	127	-	516736 192574
80	Contemporary Trade Directory Entries Name: Stanmore Filling Station Location: 65, Stanmore Hill, Stanmore, HA7 3DZ Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (S)	127	-	516736 192574
81	Contemporary Trade Directory Entries Name: Delamere Design Ltd Location: 91a, Stanmore Hill, Stanmore, Middlesex, HA7 3DZ Classification: Soft Furnishings - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	136	-	516639 192684
81	Contemporary Trade Directory Entries Name: Stanmore Hill Auto Repairs Location: 99, Stanmore Hill, Stanmore, Middlesex, HA7 3DZ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	151	-	516623 192698
81	Contemporary Trade Directory Entries Name: I-Control Hospitality Ltd Location: 111, Stanmore Hill, Stanmore, Middlesex, HA7 3DZ Classification: Cash Registers & Check-Out Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	190	-	516586 192727
82	Contemporary Trade Directory Entries Name: Aaronson Veneers Location: 56, Dennis Lane, Stanmore, HA7 4JW Classification: Veneer Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	228	-	517024 192739
83	Contemporary Trade Directory Entries Name: Stormbrand Location: 37, Stanmore Hill, Stanmore, Middlesex, HA7 3DS Classification: Distribution Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	239	-	516873 192467
83	Contemporary Trade Directory Entries Name: Great Angel Shipping Location: 37, Stanmore Hill, Stanmore, Middlesex, HA7 3DS Classification: Freight Forwarders Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (S)	239	-	516873 192467
83	Contemporary Trade Directory Entries Name: Hadley Executive Chauffeur Service Location: Office On The Hill, 37 Stanmore Hill, Stanmore, Middlesex, HA7 3DS Classification: Car Engine Tuning & Diagnostic Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13SE (S)	255	-	516881 192453

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
84	Contemporary Trade Directory Entries Name: Exclusive Led'S Location: 3, Old Forge Close, Stanmore, Middlesex, HA7 3EB Classification: Lighting Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	290	-	516502 192808
84	Contemporary Trade Directory Entries Name: Maison Blinds Location: 3, Old Forge Close, Stanmore, Middlesex, HA7 3EB Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	290	-	516502 192808
85	Contemporary Trade Directory Entries Name: Brian Dicke Location: Buckingham House East, Buckingham Parade, The Broadway, Stanmore, Middlesex, HA7 4EB Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	366	-	516992 192387
86	Contemporary Trade Directory Entries Name: Global Dry Cleaners Location: 7, Church Road, Stanmore, Middlesex, HA7 4AR Classification: Dry Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (SE)	400	-	516954 192326
86	Contemporary Trade Directory Entries Name: Tricord Systems Location: 15-19 Church Rd, Stanmore, Middlesex, HA7 4AR Classification: Computer Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8NE (S)	403	-	516938 192316
86	Contemporary Trade Directory Entries Name: Cleanforce Location: Stanmore House, 28a, Church Road, Stanmore, Middlesex, HA7 4AW Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	440	-	516955 192283
86	Contemporary Trade Directory Entries Name: London Boys Scrap Yards In Stanmore Location: Stanmore House, 28a, Church Road, Stanmore, Middlesex, HA7 4AW Classification: Car Breakers & Dismantlers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	440	-	516955 192283
86	Contemporary Trade Directory Entries Name: Zagora N W L Ltd Location: Stanmore House 28a, Church Road, Stanmore, HA7 4AW Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	441	-	516959 192284
86	Contemporary Trade Directory Entries Name: Potenza Media Ltd Location: Flat 5, Stanmore Towers, Church Road, Stanmore, Middlesex, HA7 4DE Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	443	-	516986 192294
87	Contemporary Trade Directory Entries Name: 24 Hr Pest Control Location: 37-41, Church Road, Stanmore, Middlesex, HA7 4AA Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8NE (S)	428	-	516880 192272
87	Contemporary Trade Directory Entries Name: Natco London Inc Location: Suite 1, Fountain House, 1a, Elm Park, Stanmore, Middlesex, HA7 4AU Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	460	-	516921 192250

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	Contemporary Trade Directory Entries Name: Diy Sales (UK) Ltd Location: Fountain House, 1a, Elm Park, Stanmore, Middlesex, HA7 4AU Classification: Veneer Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	460	-	516921 192250
87	Contemporary Trade Directory Entries Name: Dynamic Links Location: Fountain House, 1a, Elm Park, Stanmore, Middlesex, HA7 4AU Classification: Bags, Belts & Accessories - Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	460	-	516921 192250
88	Contemporary Trade Directory Entries Name: Pixels 2 Pictures Location: 14, The Broadway, Stanmore, Middlesex, HA7 4DW Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	431	-	517046 192346
88	Contemporary Trade Directory Entries Name: Swift Dry Cleaners Location: 20, The Broadway, Stanmore, Middlesex, HA7 4DW Classification: Dry Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (SE)	440	-	517064 192348
89	Contemporary Trade Directory Entries Name: Philip Kerr Location: 29, Embury Way, Stanmore, Middlesex, HA7 3AY Classification: Office Furniture & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	445	-	516376 192504
90	Contemporary Trade Directory Entries Name: Ageless Fantasy Location: 83, Dennis Lane, Stanmore, Middlesex, HA7 4JU Classification: Perfume Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (NW)	495	-	516577 193181
91	Contemporary Trade Directory Entries Name: Mr Dryclean Location: 74, The Broadway, Stanmore, Middlesex, HA7 4DU Classification: Dry Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (SE)	503	-	517181 192377
92	Contemporary Trade Directory Entries Name: Sara Miller Design Location: 6, Oldfield Close, STANMORE, Middlesex, HA7 3AS Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	518	-	516333 192430
93	Contemporary Trade Directory Entries Name: Cleaners Of Stanmore Location: 55, The Broadway, Stanmore, Middlesex, HA7 4DJ Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	520	-	517162 192329
94	Contemporary Trade Directory Entries Name: Reactsol Location: 28, Elm Park, Stanmore, Middlesex, HA7 4BJ Classification: Pharmaceutical Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	591	-	516965 192127
95	Contemporary Trade Directory Entries Name: Kosma Global Ltd Location: 4, Lady Aylesford Avenue, Stanmore, Middlesex, HA7 4FH Classification: Clothing & Fabrics - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (SW)	649	-	516466 192127
96	Contemporary Trade Directory Entries Name: Quick Clean Ltd Location: 6, Hilltop Way, Stanmore, Middlesex, HA7 3DB Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	655	-	516351 193220

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
96	Contemporary Trade Directory Entries Name: Quickclean Ltd Location: 6, Hilltop Way, Stanmore, Middlesex, HA7 3DB Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	655	-	516351 193220
97	Contemporary Trade Directory Entries Name: Ceiltech Location: Stanmore Hill, Stanmore, Middlesex, HA7 3DD Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A17SE (NW)	696	-	516267 193194
98	Contemporary Trade Directory Entries Name: Pro Cleaners Stanmore Location: 26, Lady Aylesford Avenue, Stanmore, Middlesex, HA7 4FH Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	703	-	516588 192016
99	Contemporary Trade Directory Entries Name: Europrotronic Location: 5, Kerry Avenue, Stanmore, HA7 4NJ Classification: Electronic Component Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	704	-	517502 192700
100	Contemporary Trade Directory Entries Name: V A Silverstone & Co Location: 20 Dene Gardens, Stanmore, Middlesex, HA7 4TA Classification: Commercial Vehicle Dealers Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A9NW (SE)	721	-	517370 192266
101	Contemporary Trade Directory Entries Name: O J M Location: 28, Sandymount Avenue, Stanmore, Middlesex, HA7 4TY Classification: Washing Machines - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	733	-	517429 192333
102	Contemporary Trade Directory Entries Name: N V Boutique Location: Facebookcom Nvboutiquelondon, London Road, Stanmore, Middlesex, HA7 4PD Classification: Jewellery Manufacturers & Repairers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A14SE (E)	788	-	517574 192569
103	Contemporary Trade Directory Entries Name: Revamp & Restyle Location: 23, Kerry Court, Stanmore, Middlesex, HA7 4NR Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	797	-	517594 192665
104	Contemporary Trade Directory Entries Name: Liffey Carpet Clean Location: 40, Goodhall Close, Stanmore, Middlesex, HA7 4FR Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	869	-	516469 191881
105	Contemporary Trade Directory Entries Name: 3 C Ltd Location: 22, Merryfield Gardens, Stanmore, Middlesex, HA7 4TG Classification: Cleaning Services - Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	926	-	517481 192077
106	Contemporary Trade Directory Entries Name: Bespoke Appliances Location: 34, Algar Close, Stanmore, Middlesex, HA7 3NL Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	982	-	515981 192121

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
107	Fuel Station Entries Name: Mfg Stanmore Location: 65, Stanmore Hill , , Stanmore, Outer London, HA7 3DZ Brand: BP Premises Type: Petrol Station Status: Closed Positional Accuracy: Automatically positioned to the address	A13SW (S)	126	-	516737 192575

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
108	Ancient Woodland Name: Not Supplied Reference: 1495758 Area(m²): 34478.47 Type: Plantation on Ancient Woodland	A18SE (NE)	435	6	517026 193097
109	Ancient Woodland Name: Heriots Wood Reference: 1495638 Area(m²): 144171.15 Type: Ancient and Semi-Natural Woodland	A12SE (W)	585	6	516203 192577
110	Ancient Woodland Name: The Grove Reference: 1495829 Area(m²): 71984.36 Type: Ancient and Semi-Natural Woodland	A18NW (N)	795	6	516561 193495
111	Ancient Woodland Name: Pear Wood Reference: 1495630 Area(m²): 58747.89 Type: Plantation on Ancient Woodland	A19SW (NE)	806	6	517261 193385
112	Ancient Woodland Name: Pear Wood Reference: 1495720 Area(m²): 53932.44 Type: Ancient and Semi-Natural Woodland	A19NW (NE)	882	6	517219 193502
113	Ancient Woodland Name: Not Supplied Reference: 1495656 Area(m²): 23100.97 Type: Ancient and Semi-Natural Woodland	A19SE (NE)	900	6	517541 193229
114	Areas of Adopted Green Belt Authority: London Borough of Harrow Plan Name: Proposal Map Status: Adopted Plan Date: 4th July 2013	A13NW (NW)	5	7	516778 192728
115	Local Nature Reserves Name: Stanmore Country Park Multiple Area: N Area (m2): 307303.33 Source: Natural England Designation Date: 1st January 1995	A13NE (NE)	135	6	516895 192818
116	Local Nature Reserves Name: Bentley Priory Multiple Area: N Area (m2): 592519.64 Source: Natural England Designation Date: 1st January 1993	A12SE (W)	585	6	516203 192577
117	Local Nature Reserves Name: Stanmore Common Multiple Area: Y Area (m2): 492008.15 Source: Natural England Designation Date: 1st January 1995	A17SE (NW)	768	6	516237 193267
118	Nitrate Vulnerable Zones Name: Colne And Guc (From Confluence With Chess To Ash) Nvz Description: Surface Water Source: Environment Agency, Head Office	A18SW (NW)	704	4	516450 193350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
119	Sites of Special Scientific Interest Name: Bentley Priory Multiple Areas: N Total Area (m2): 566315.79 Source: Natural England Reference: 1005970 Designation Details: Local Nature Reserve Designation Date: 18th April 1990 Date Type: Notified Designation Details: Local Wildlife Site Designation Date: 18th April 1990 Date Type: Notified Designation Details: Site Of Special Scientific Interest Designation Date: 18th April 1990 Date Type: Notified Designation Details: Water Framework Directive (WFD) Designation Date: 18th April 1990 Date Type: Notified	A12SE (W)	585	6	516203 192577

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Watford Borough Council - Environmental Health Department London Borough of Barnet - Environmental Health Department Three Rivers District Council - Environmental Health Department London Borough of Hillingdon - Environmental Protection Unit London Borough of Harrow - Environmental Health Services Hertsmere Borough Council - Environmental Health Department London Borough of Brent - Environmental Health Department	April 2014 January 2015 January 2015 March 2015 October 2014 September 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Thames Region	October 2019	Quarterly
Enforcement and Prohibition Notices Environment Agency - Thames Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - Thames Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region	January 2020 January 2020	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control London Borough of Barnet - Environmental Health Department London Borough of Hillingdon - Environmental Health Department London Borough of Harrow - Environmental Health Services Three Rivers District Council - Environmental Health Department Hertsmere Borough Council - Environmental Health Department Watford Borough Council - Environmental Health Department London Borough of Brent - Environmental Health Department	April 2013 August 2014 December 2014 February 2015 January 2015 June 2014 March 2016	Variable Variable Variable Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls London Borough of Hillingdon - Environmental Health Department London Borough of Barnet - Environmental Health Department London Borough of Harrow - Environmental Health Services Three Rivers District Council - Environmental Health Department Hertsmere Borough Council - Environmental Health Department Watford Borough Council - Environmental Health Department London Borough of Brent - Environmental Health Department	August 2014 December 2014 December 2014 February 2015 January 2015 June 2014 March 2016	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements London Borough of Hillingdon - Environmental Health Department London Borough of Barnet - Environmental Health Department London Borough of Harrow - Environmental Health Services Three Rivers District Council - Environmental Health Department Hertsmere Borough Council - Environmental Health Department Watford Borough Council - Environmental Health Department London Borough of Brent - Environmental Health Department	August 2014 December 2014 December 2014 February 2015 January 2015 June 2014 March 2016	Variable Variable Variable Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	January 2020	
Pollution Incidents to Controlled Waters Environment Agency - Thames Region	September 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Thames Region	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - Thames Region	March 2013	Annual Rolling Update
Registered Radioactive Substances Environment Agency - Thames Region	June 2016	
River Quality Environment Agency - Head Office	November 2001	Not Applicable

Agency & Hydrological	Version	Update Cycle
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	January 2020 January 2020	Quarterly Quarterly
Water Abstractions Environment Agency - Thames Region	January 2020	Quarterly
Water Industry Act Referrals Environment Agency - Thames Region	October 2017	Quarterly
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	October 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2019	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2019	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	November 2019	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	November 2019	Quarterly
Flood Defences Environment Agency - Head Office	November 2019	Quarterly
OS Water Network Lines Ordnance Survey	January 2020	Quarterly
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

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 2019	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 Environment Agency - Thames Region - North East Area	November 2019 November 2019	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region - North East Area	January 2020 January 2020	Quarterly Quarterly
Local Authority Landfill Coverage Hertfordshire County Council - Spatial Planning and Economy Unit Hertsmere Borough Council - Environmental Health Department London Borough of Barnet London Borough of Brent - Environmental Health Department London Borough of Harrow - Environmental Health Services London Borough of Hillingdon - Environmental Health Department Three Rivers District Council - Environmental Health Department Watford Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Hertfordshire County Council - Spatial Planning and Economy Unit Hertsmere Borough Council - Environmental Health Department London Borough of Barnet London Borough of Brent - Environmental Health Department London Borough of Harrow - Environmental Health Services London Borough of Hillingdon - Environmental Health Department Three Rivers District Council - Environmental Health Department Watford Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable 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	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements London Borough of Harrow Hertfordshire County Council - Spatial Planning and Economy Unit Hertsmere Borough Council - Planning Department London Borough of Barnet Three Rivers District Council Watford Borough Council - Development Control London Borough of Brent London Borough of Hillingdon	April 2015 February 2016 February 2016 February 2016 February 2016 February 2016 January 2016 January 2016	Variable Variable Variable Variable Variable Variable Variable Variable
Planning Hazardous Substance Consents London Borough of Harrow Hertfordshire County Council - Spatial Planning and Economy Unit Hertsmere Borough Council - Planning Department London Borough of Barnet Three Rivers District Council Watford Borough Council - Development Control London Borough of Brent London Borough of Hillingdon	April 2015 February 2016 February 2016 February 2016 February 2016 February 2016 January 2016 January 2016	Variable Variable Variable Variable Variable Variable Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2019	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	Annual Rolling Update
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	January 2019	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	January 2020	Quarterly
Fuel Station Entries Catalist Ltd - Experian	December 2019	Quarterly
Gas Pipelines National Grid	July 2014	
Underground Electrical Cables National Grid	December 2015	

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	August 2018	Bi-Annually
Areas of Adopted Green Belt Hertsmere Borough Council - Planning Department London Borough of Barnet London Borough of Brent London Borough of Harrow London Borough of Hillingdon Three Rivers District Council Watford Borough Council	February 2020 February 2020 February 2020 February 2020 February 2020 February 2020 February 2020	As notified As notified As notified As notified As notified As notified As notified
Areas of Unadopted Green Belt Hertsmere Borough Council - Planning Department London Borough of Barnet London Borough of Brent London Borough of Harrow London Borough of Hillingdon Three Rivers District Council Watford Borough Council	February 2020 February 2020 February 2020 February 2020 February 2020 February 2020 February 2020	As notified As notified As notified As notified As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	June 2019	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	March 2019	Bi-Annually
Marine Nature Reserves Natural England	July 2019	Bi-Annually
National Nature Reserves Natural England	July 2019	Bi-Annually
National Parks Natural England	April 2017	Bi-Annually
Nitrate Vulnerable Zones Environment Agency - Head Office Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2017 October 2015	Bi-Annually
Ramsar Sites Natural England	April 2019	Bi-Annually
Sites of Special Scientific Interest Natural England	March 2019	Bi-Annually
Special Areas of Conservation Natural England	June 2019	Bi-Annually
Special Protection Areas Natural England	April 2019	Bi-Annually

A selection of organisations who provide data within this report

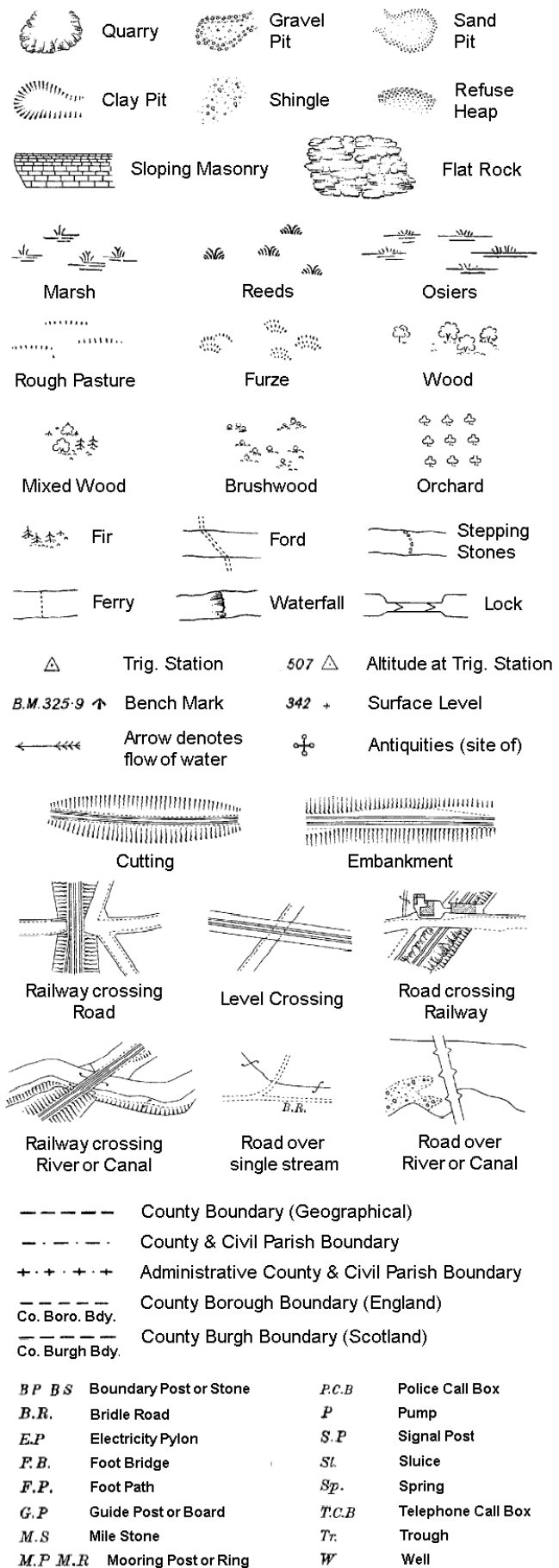
Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science 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	London Borough of Harrow - Environmental Health Services P O Box 18, Civic Centre, Harrow, Middlesex, HA1 2UT	Telephone: 020 8863 5611 Fax: 020 8863 8267 Website: www.harrow.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
7	London Borough of Harrow Civic Centre, Station Road, Harrow, Middlesex, HA1 2XF	Telephone: 020 8863 5611 Fax: 020 8863 8267 Website: www.harrow.gov.uk
8	London Borough of Barnet Barnet House, 1255 High Road, Whetstone, London, N20 0EJ	Telephone: 020 8359 4000 Fax: 020 8359 4616 Website: www.barnet.gov.uk
9	Hertsmere Borough Council - Planning Department Civic Offices, Elstree Way, Borehamwood, Hertfordshire, WD6 1WA	Telephone: 020 8207 2277 Fax: 020 8207 7444 Website: www.hertsmere.gov.uk
-	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

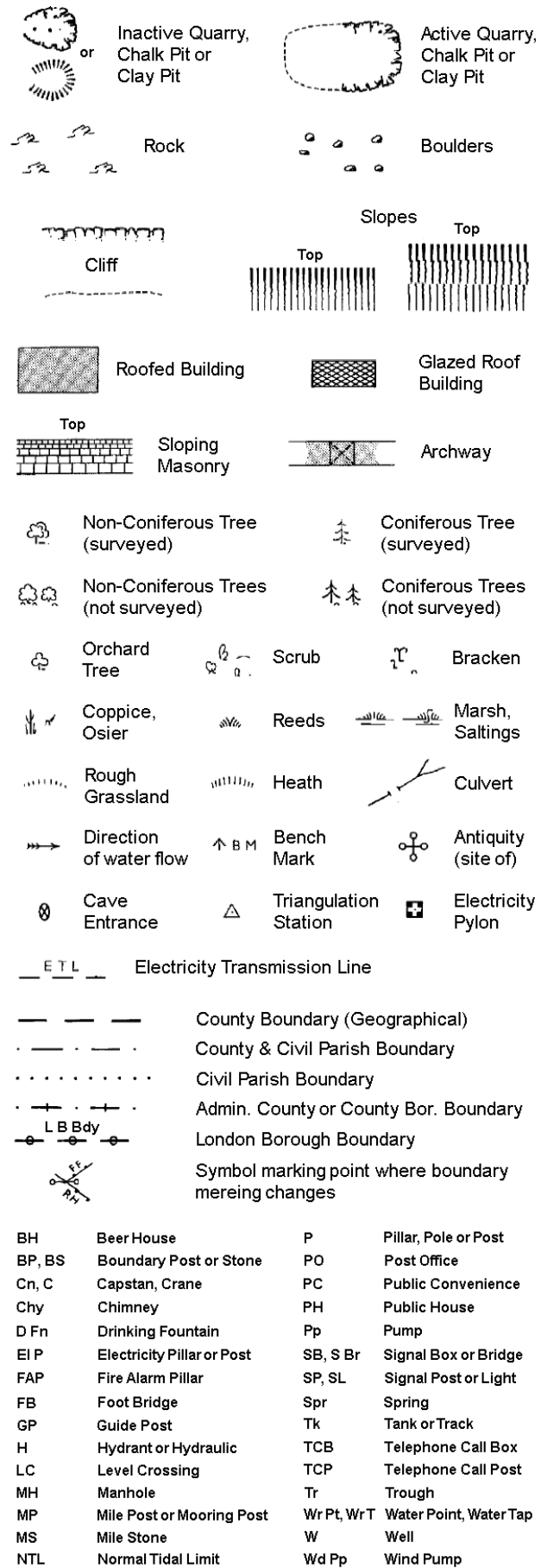
Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

Historical Mapping Legends

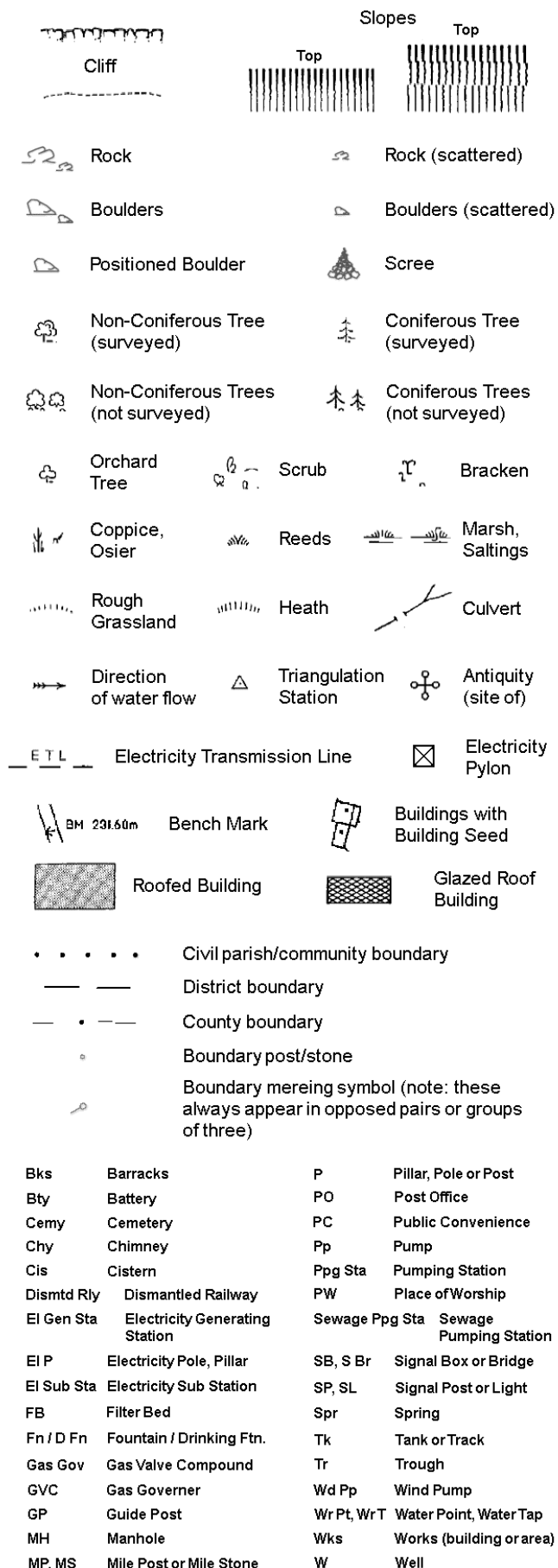
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



Ordinance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information



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



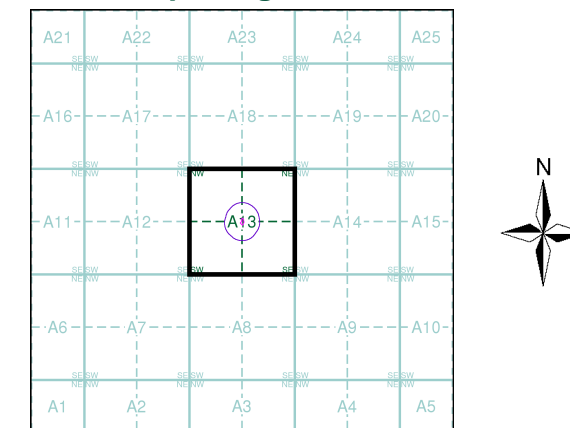
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Middlesex	1:2,500	1865 - 1882	2
Hertfordshire	1:2,500	1871	3
Middlesex	1:2,500	1896	4
Hertfordshire	1:2,500	1898	5
Hertfordshire	1:2,500	1913	6
Middlesex	1:2,500	1914	7
Hertfordshire	1:2,500	1935	8
Middlesex	1:2,500	1935	9
Ordnance Survey Plan	1:1,250	1962 - 1963	10
Ordnance Survey Plan	1:2,500	1963 - 1964	11
Additional SIMs	1:1,250	1963 - 1982	12
Additional SIMs	1:2,500	1963	13
Ordnance Survey Plan	1:1,250	1968 - 1978	14
Additional SIMs	1:1,250	1987	15
Large-Scale National Grid Data	1:1,250	1991	16
Large-Scale National Grid Data	1:1,250	1994	17
Large-Scale National Grid Data	1:1,250	1996	18

Historical Map - Segment A13



Order Details

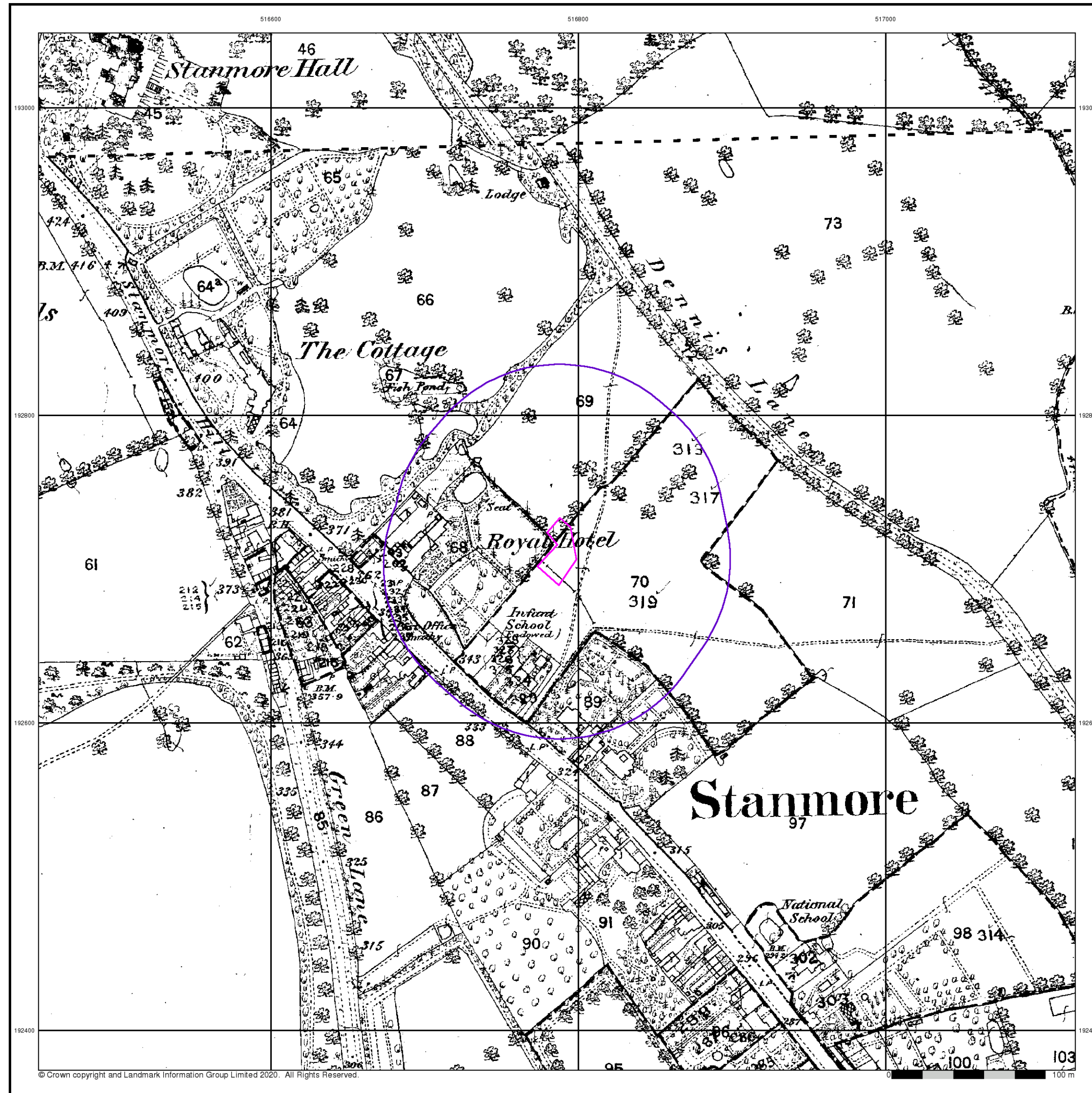
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Site Area (Ha): 0.06
Search Buffer (m): 100

Site Details

9, Eaton Close, STANMORE, HA7 3BT

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Middlesex

Published 1865 - 1882

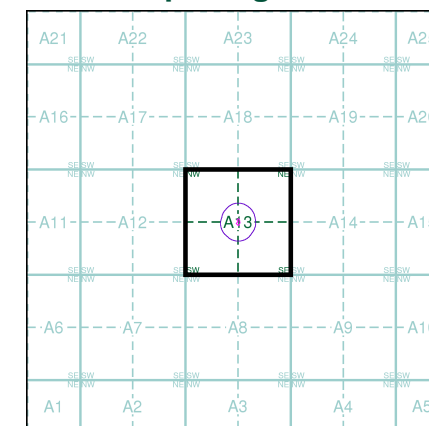
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered 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)

005_12
1882
1:2,500
005_16
1865
1:2,500

Historical Map - Segment A13



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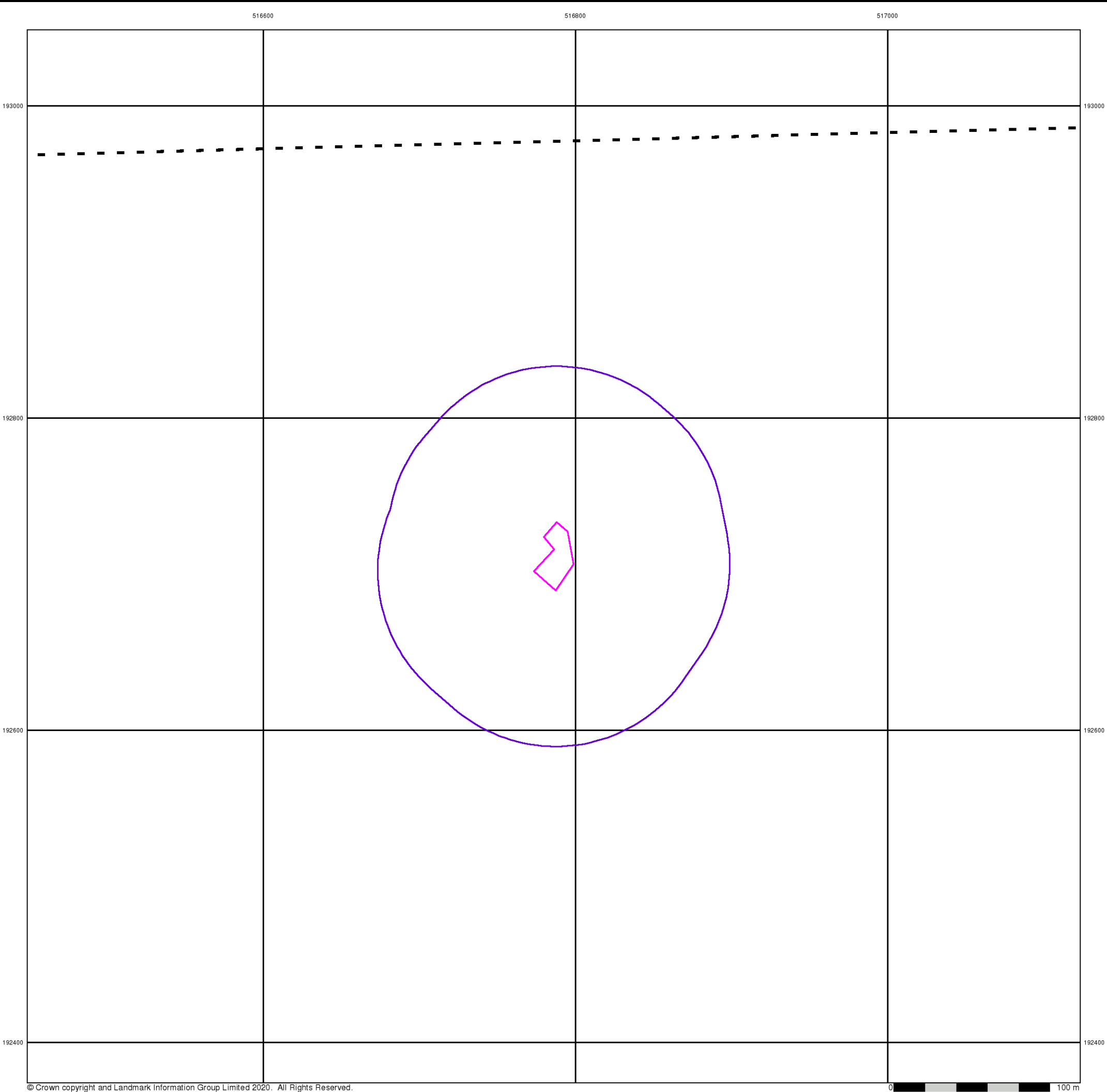
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Search Buffer (m): 100

Site Details

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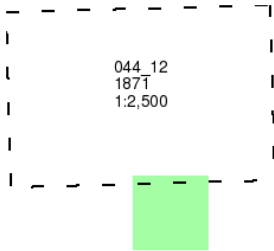
Hertfordshire

Published 1871

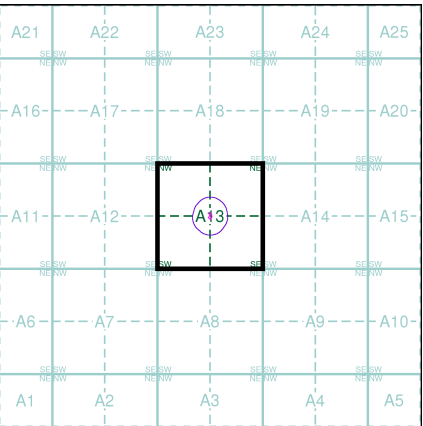
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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

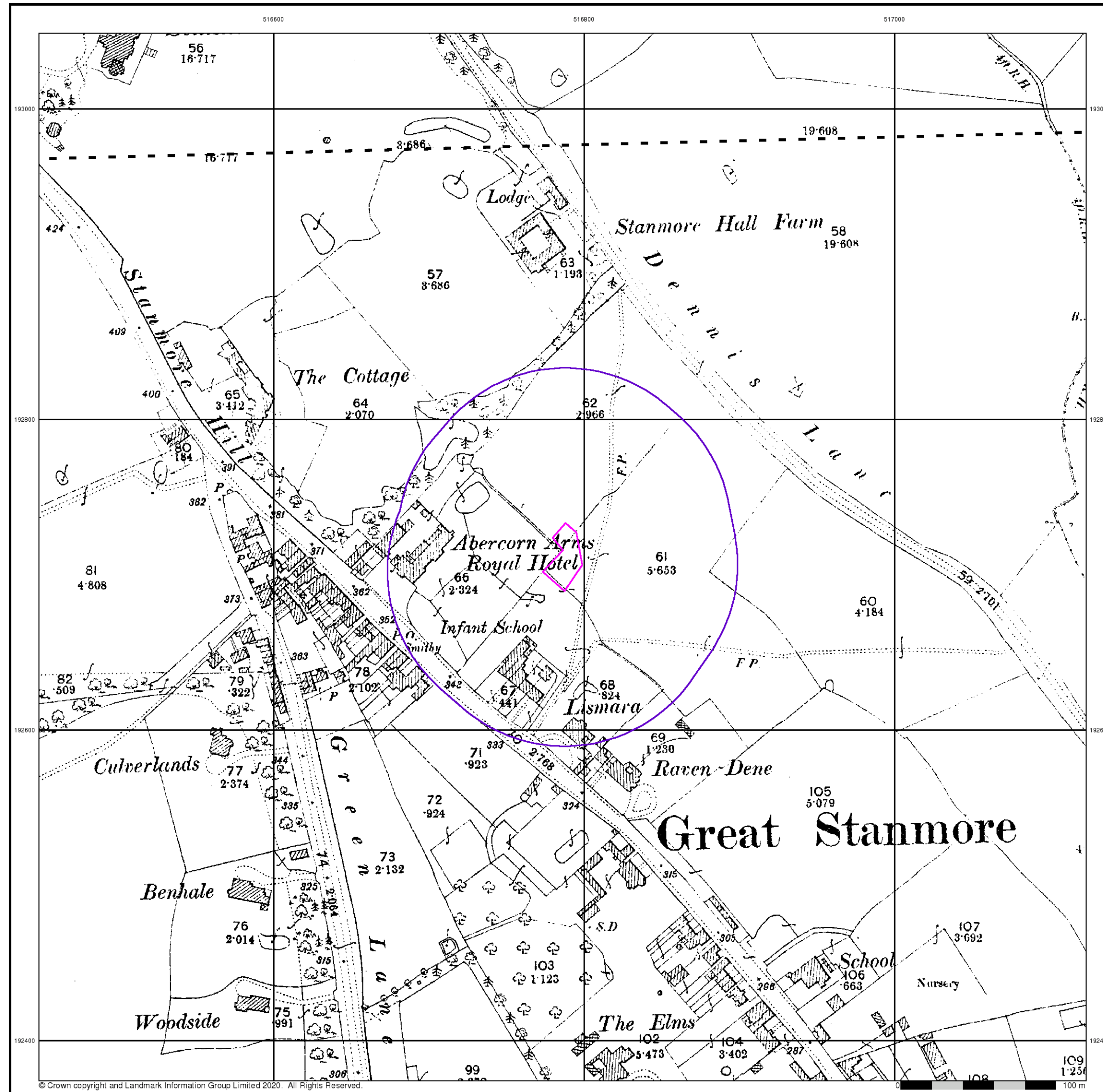
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Slice: A
Site Area (Ha): 0.06
Search Buffer (m): 100

Site Details

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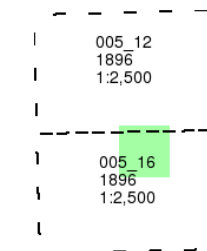
Middlesex

Published 1896

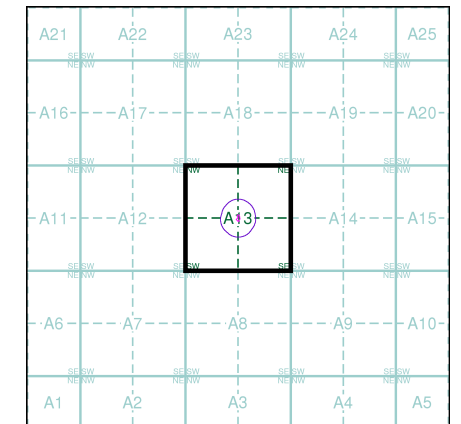
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered 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



Order Details

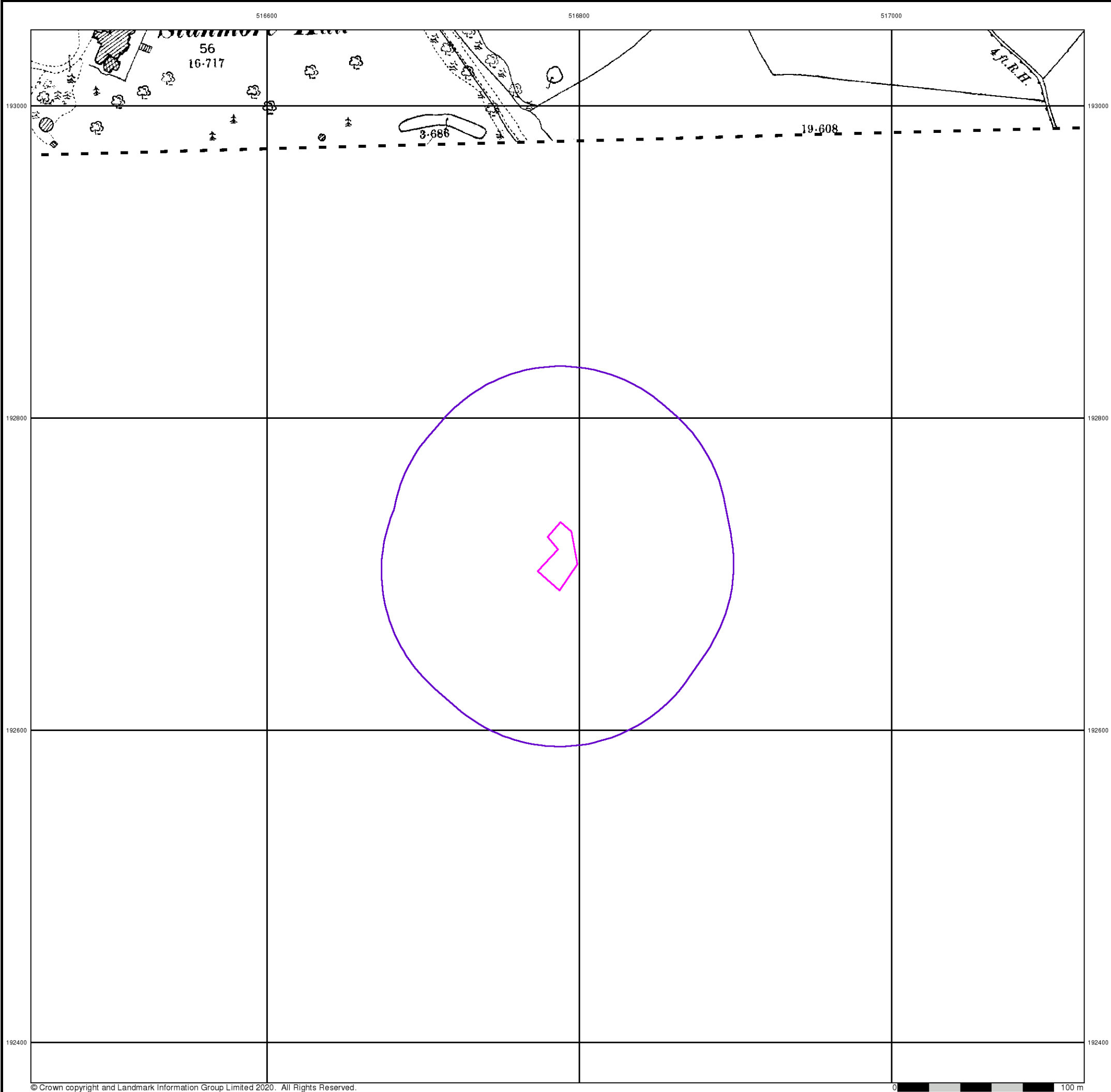
Order Number: 237926099_1_1
Customer Ref: LA20008
National Grid Reference: 516790, 192710
Slice: A
Site Area (Ha): 0.06
Search Buffer (m): 100

Site Details

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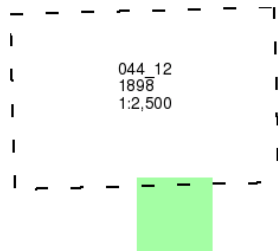
Hertfordshire

Published 1898

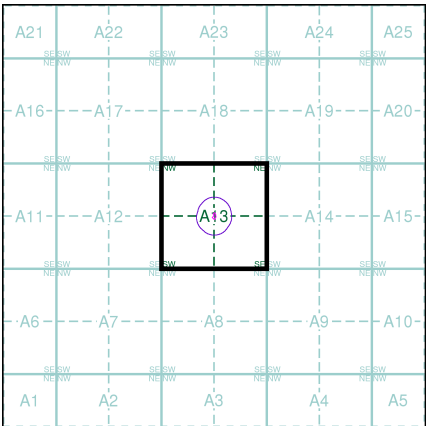
Source map scale - 1:2,500

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

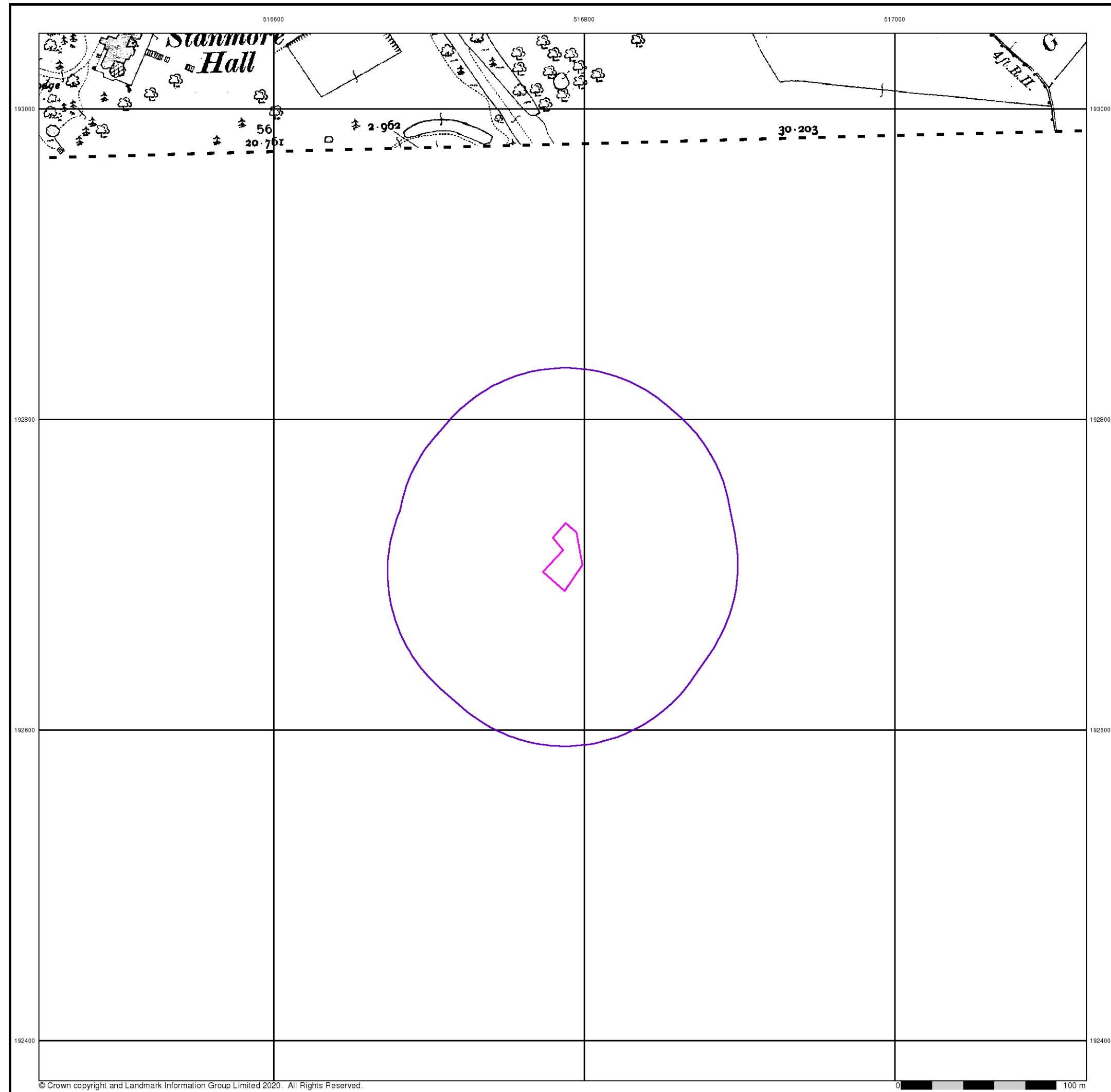
Order Number: 237926099_1_1
Customer Ref: LA20008
National Grid Reference: 516790, 192710
Slice: A
Site Area (Ha): 0.06
Search Buffer (m): 100

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Hertfordshire

Published 1913

Source map scale - 1:2,500

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Map Name(s) and Date(s)

044_12
1913
1:2,500

Historical Map - Segment A13

A21A22A23A24A25

A16A17A18A19A20

A11A12A13A14A15

A6A7A8A9A10

A1A2A3A4A5

N

Order Details

Order Number:	237926099_1_1
Customer Ref:	LA20008
National Grid Reference:	516790, 192710
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	100

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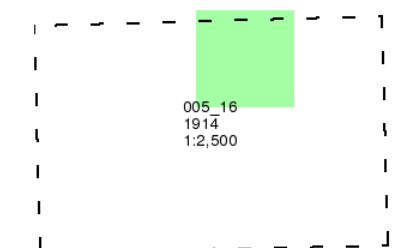
Middlesex

Published 1914

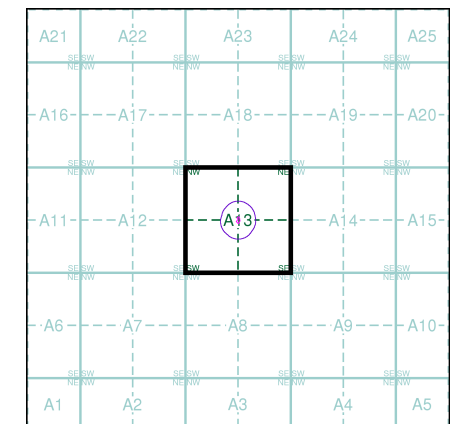
Source map scale - 1:2,500

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

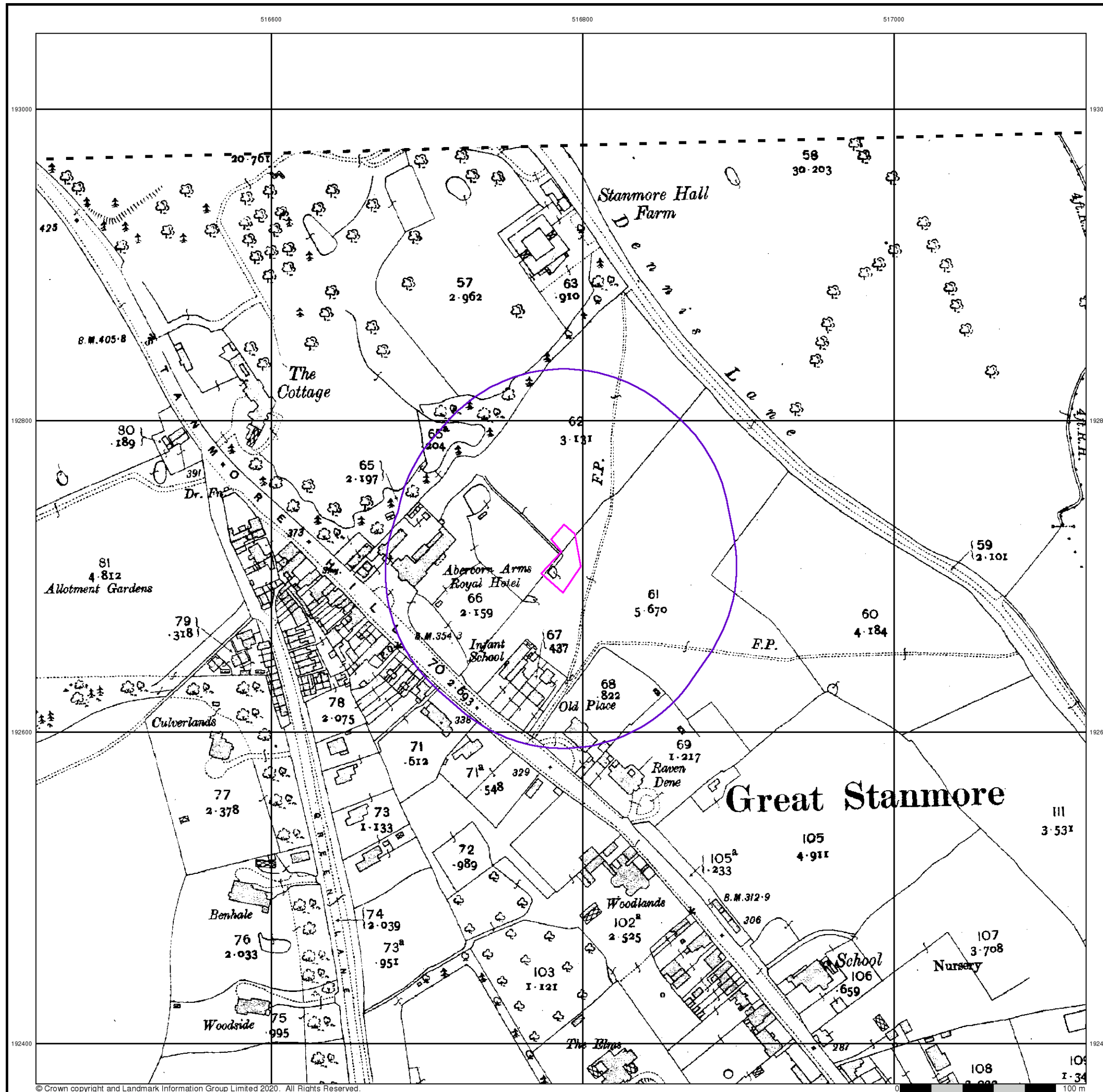


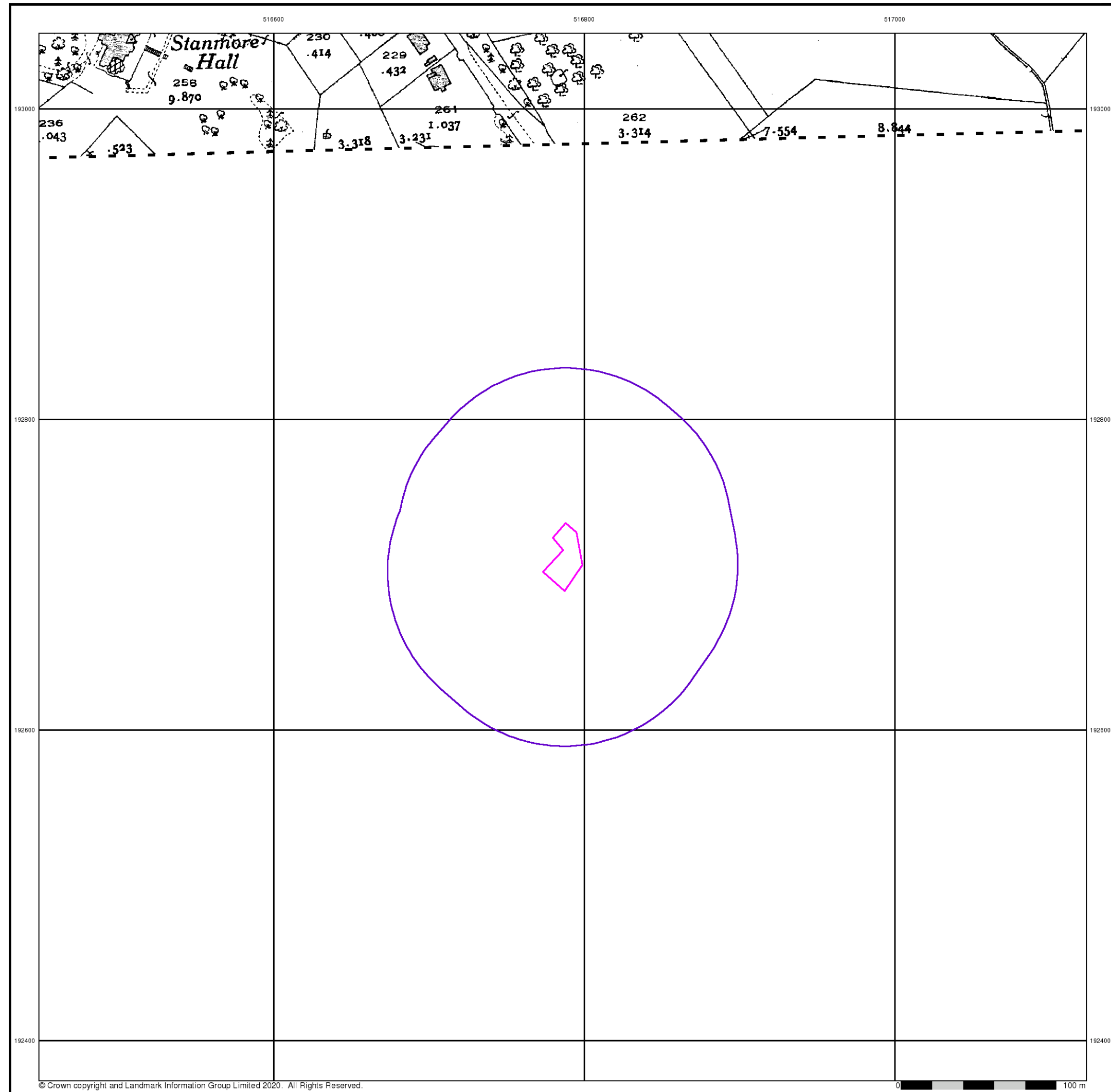
Order Details

Order Number: 237926099_1_1
 Customer Ref: LA20008
 National Grid Reference: 516790, 192710
 Slice: A
 Site Area (Ha): 0.06
 Search Buffer (m): 100

Site Details

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Hertfordshire

Published 1935

Source map scale - 1:2,500

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Map Name(s) and Date(s)

044 12
1935
1:2,500

Historical Map - Segment A13

A21	A22	A23	A24	A25
A16	A17	A18	A19	A20
A11	A12	A13	A14	A15
A6	A7	A8	A9	A10
A1	A2	A3	A4	A5

Order Details

Order Number:	237926099_1_1
Customer Ref:	LA20008
National Grid Reference:	516790, 192710
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	100

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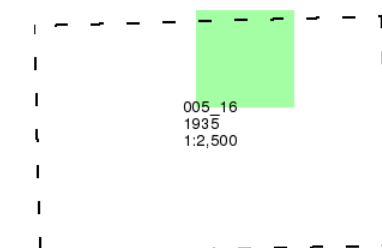
Middlesex

Published 1935

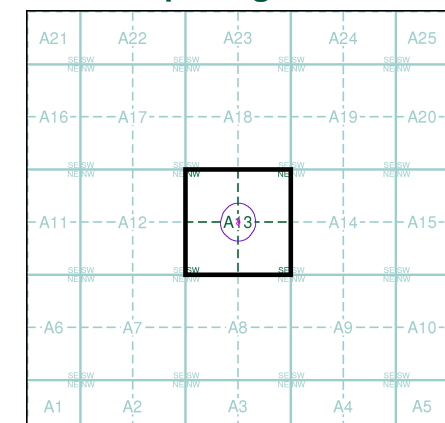
Source map scale - 1:2,500

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

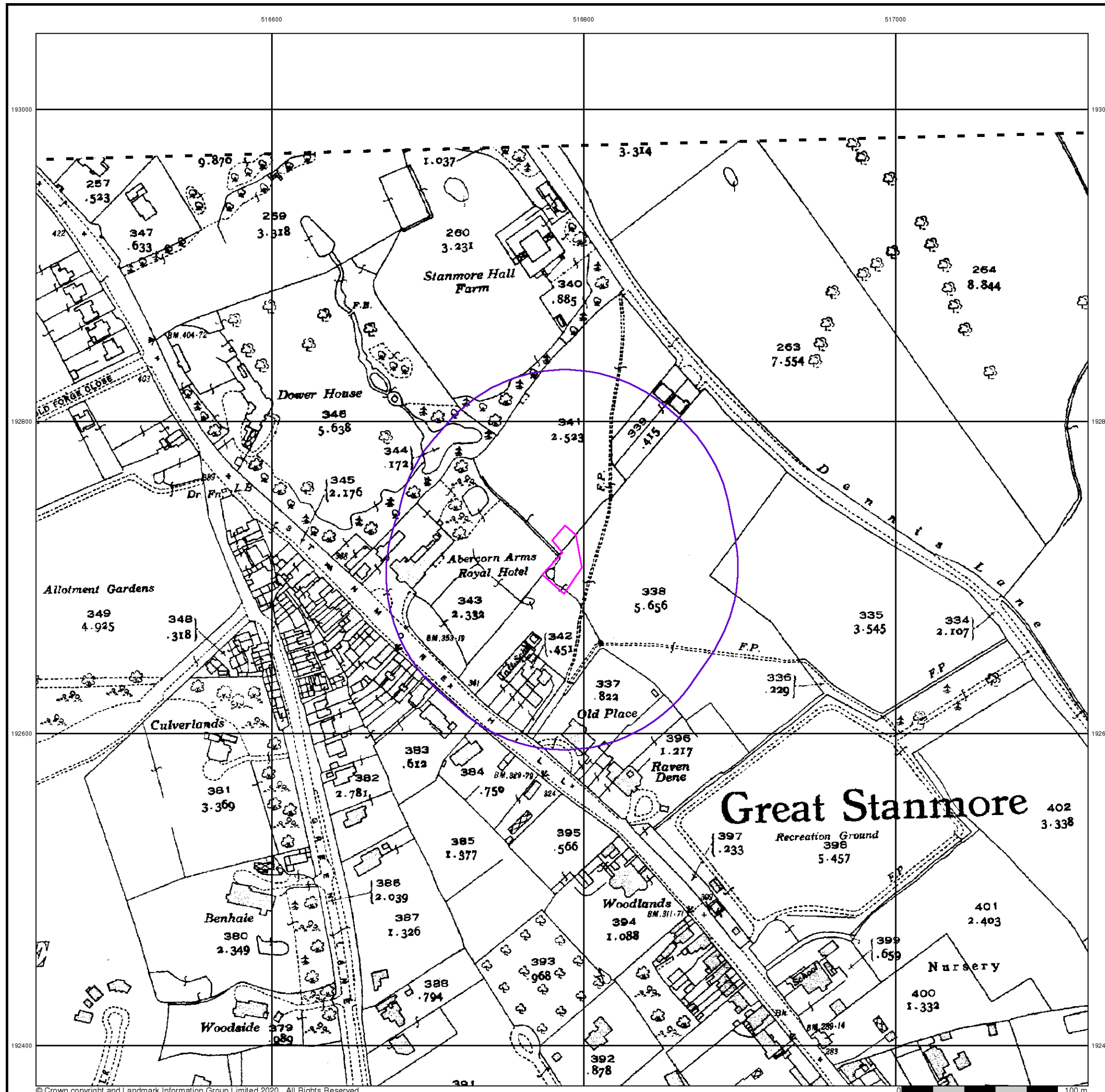


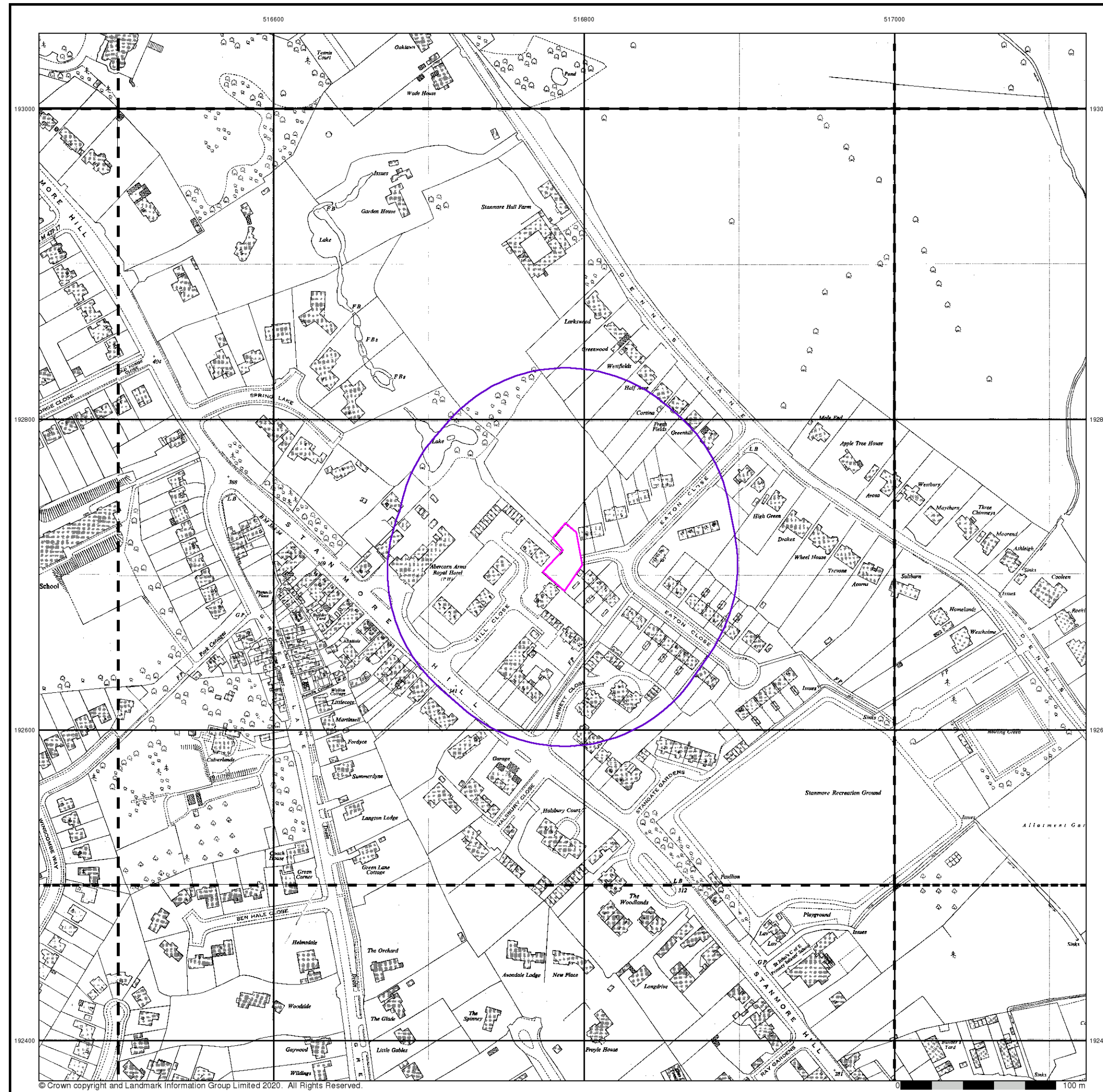
Order Details

Order Number: 237926099_1_1
 Customer Ref: LA20008
 National Grid Reference: 516790, 192710
 Slice: A
 Site Area (Ha): 0.06
 Search Buffer (m): 100

Site Details

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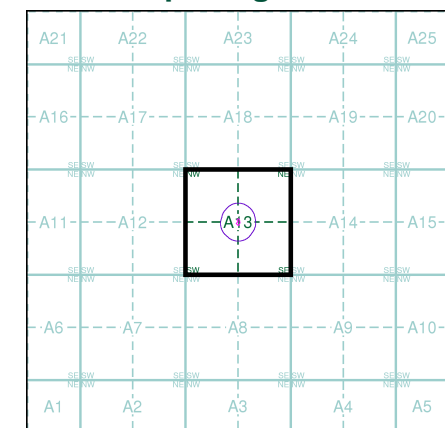
Ordnance Survey Plan
Published 1962 - 1963
Source map scale - 1:1,250

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)

Q1693SW	Q1693SE	Q1793SW
1963	1963	1963
1:1,250	1:1,250	1:1,250
Q1692NW	Q1692NE	Q1792NW
1963	1963	1962
1:1,250	1:1,250	1:1,250
Q1692SW	Q1692SE	Q1792SW
1963	1963	1962
1:1,250	1:1,250	1:1,250

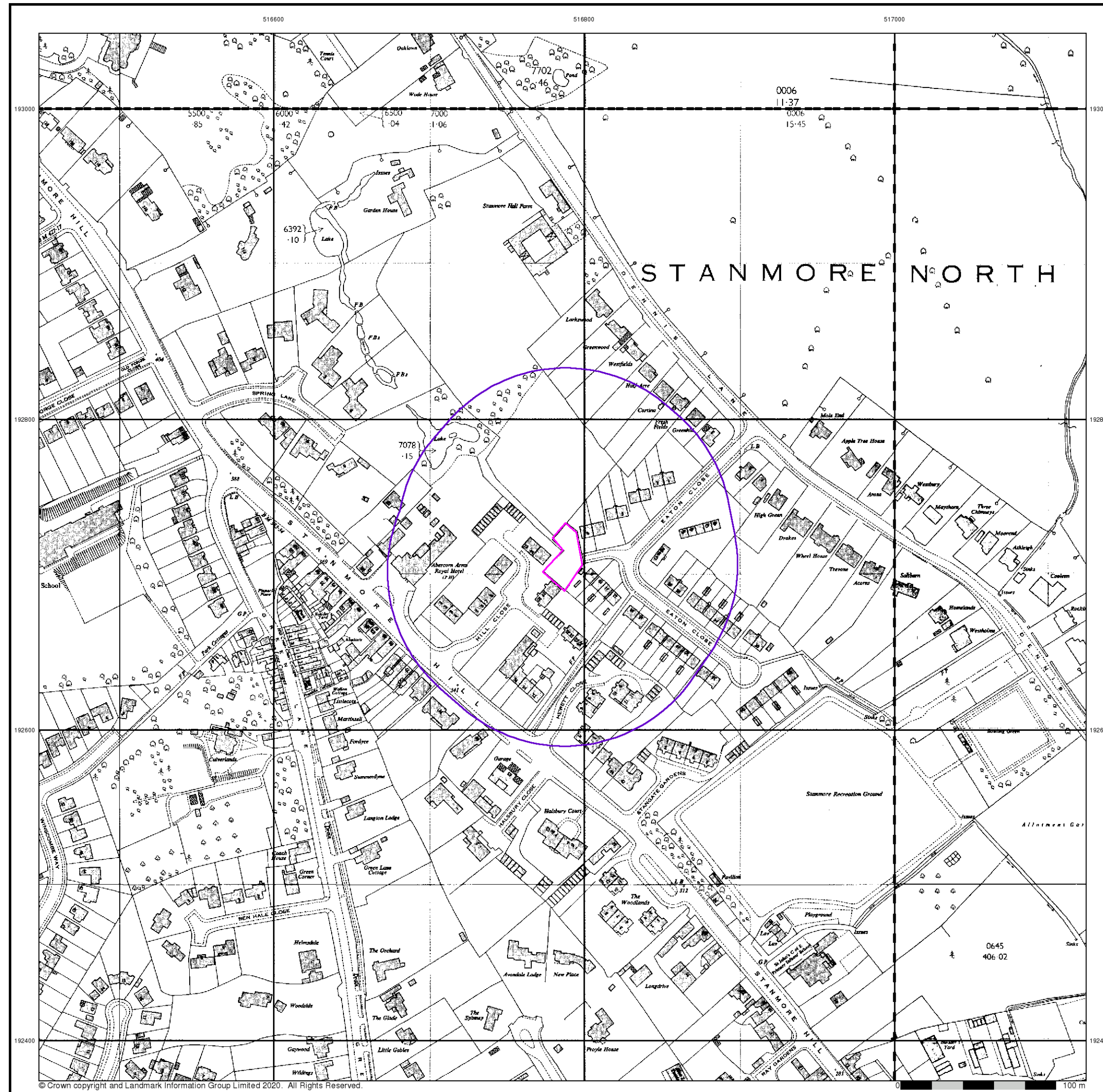
Historical Map - Segment A13



Order Details
Order Number: 237926099_1_1
Customer Ref: LA20008
National Grid Reference: 516790, 192710
Slice: A
Site Area (Ha): 0.06
Search Buffer (m): 100

Site Details
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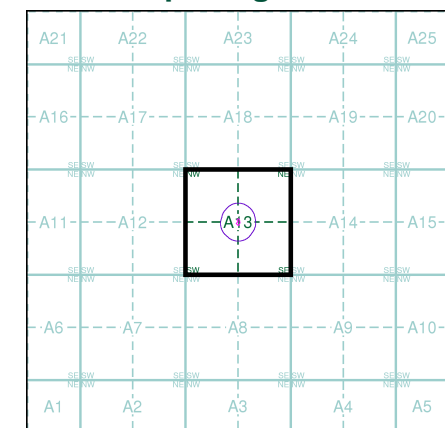
Ordnance Survey Plan
Published 1963 - 1964
Source map scale - 1:2,500

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)

TQ1693 1964 12,500	TQ1793 1964 12,500
TQ1692 1963 12,500	TQ1792 1963 12,500

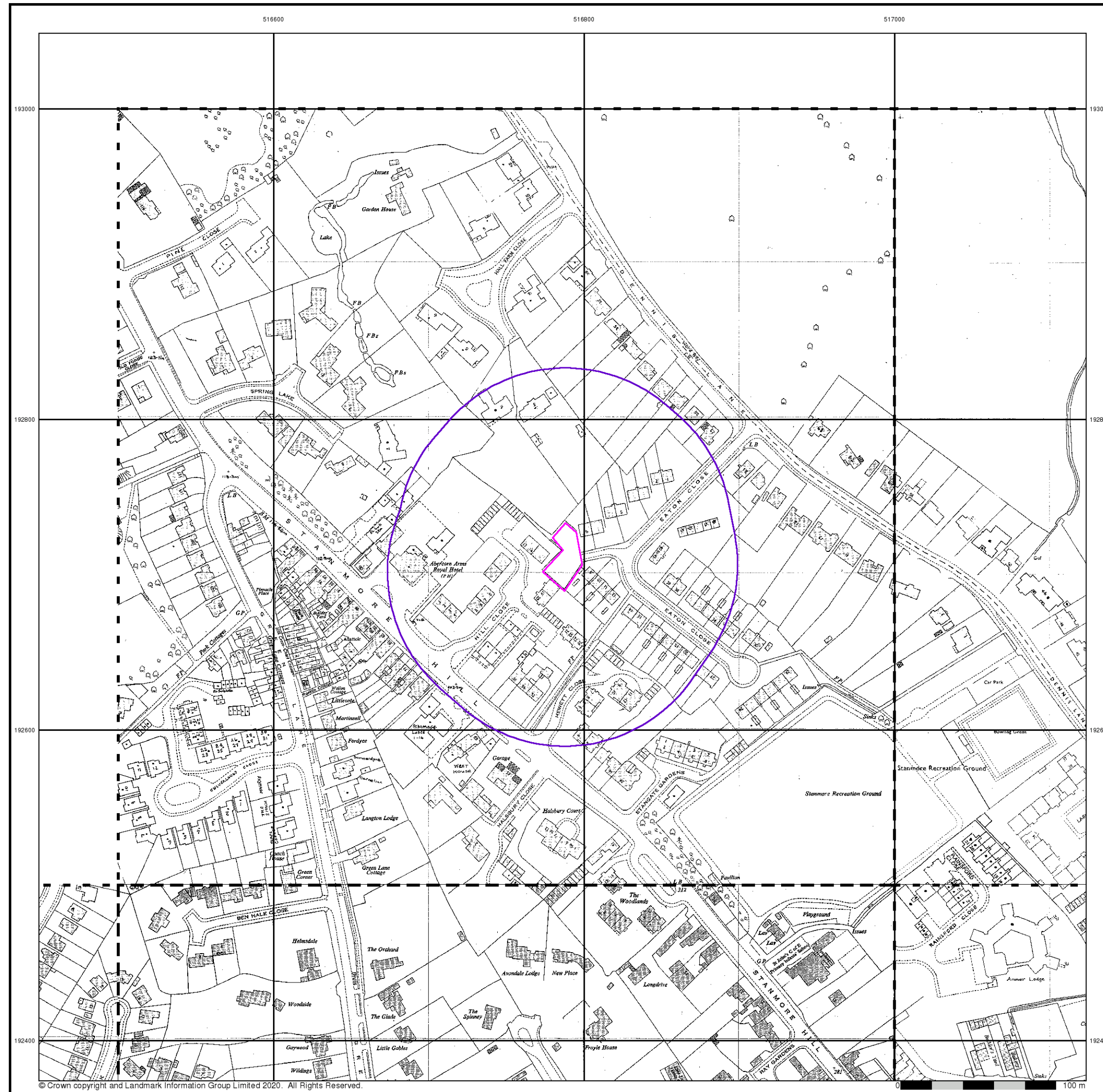
Historical Map - Segment A13



Order Details
Order Number: 237926099_1_1
Customer Ref: LA20008
National Grid Reference: 516790, 192710
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Site Area (Ha): 0.06
Search Buffer (m): 100

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Additional SIMs

Published 1963 - 1982

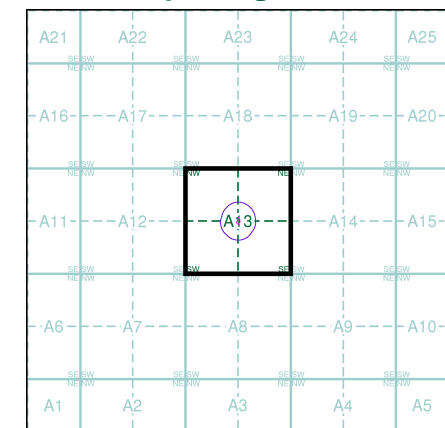
Source map scale - 1:1,250

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)

	TQ1692NE 1980 1:1,250	TQ1792NW 1982 1:1,250
TQ1692SW 1981 1:1,250	TQ1692SE 1963 1:1,250	TQ1792SW 1978 1:1,250

Historical Map - Segment A13



Order Details

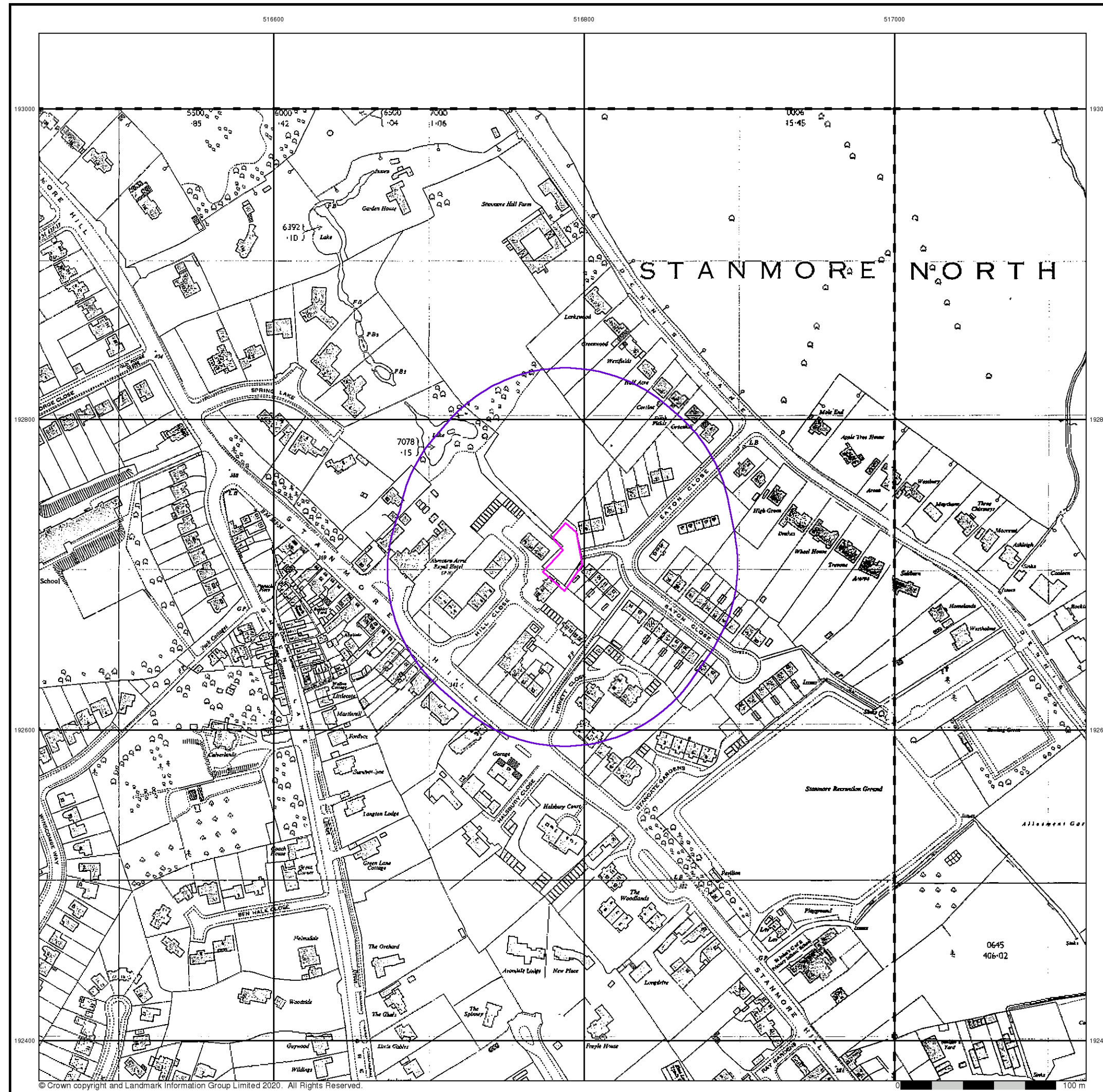
Order Number: 237926099_1_1
Customer Ref: LA20008
National Grid Reference: 516790, 192710
Slice: A
Site Area (Ha): 0.06
Search Buffer (m): 100

Site Details

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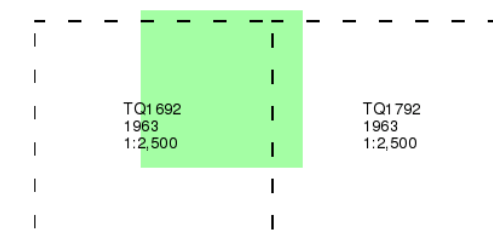
Additional SIMs

Published 1963

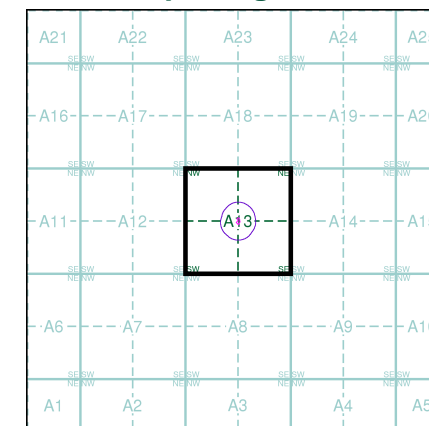
Source map scale - 1:2,500

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

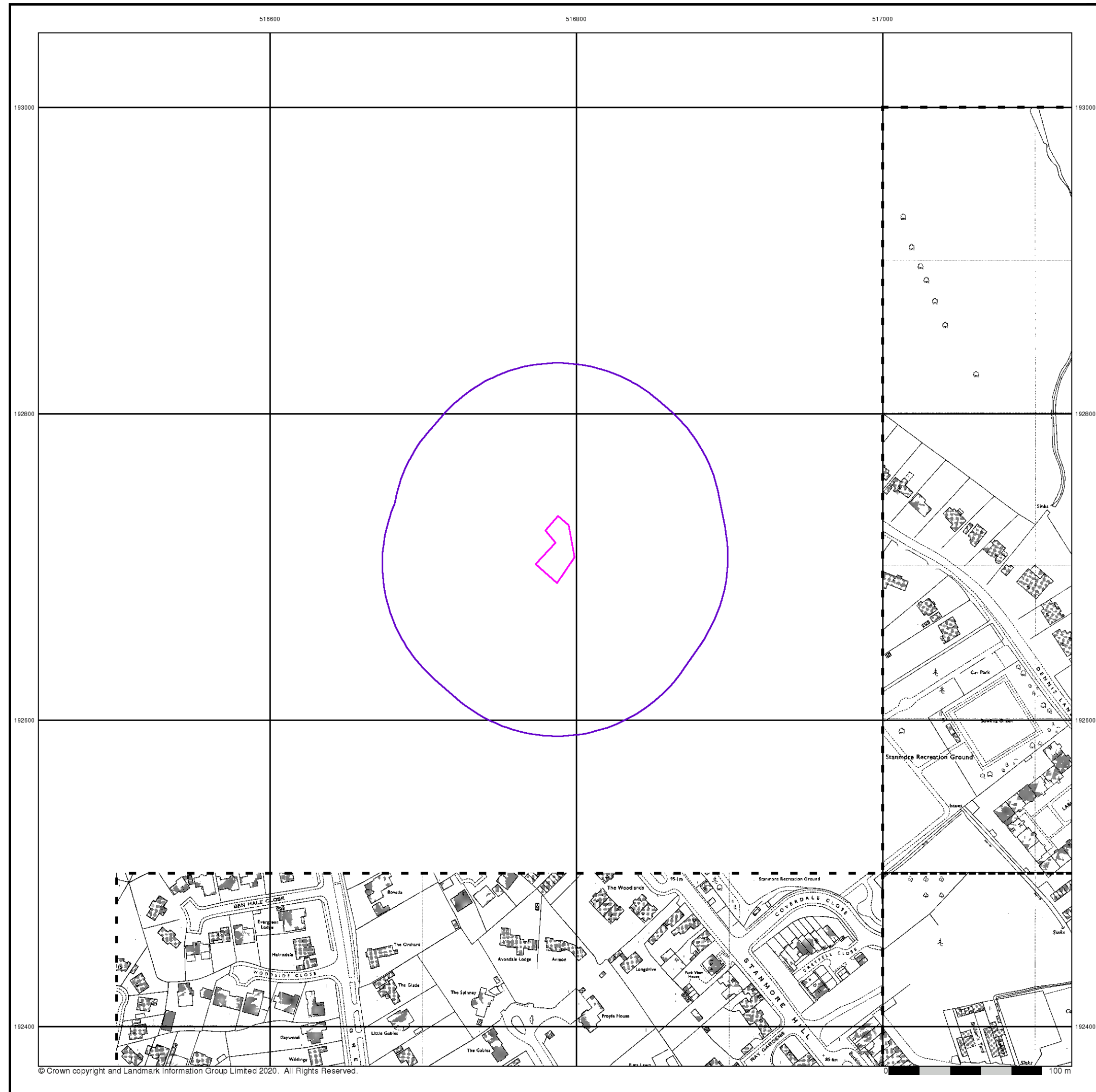
Order Number: 237926099_1_1
Customer Ref: LA20008
National Grid Reference: 516790, 192710
Slice: A
Site Area (Ha): 0.06
Search Buffer (m): 100

Site Details

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Ordnance Survey Plan

Published 1968 - 1978

Source map scale - 1:1,250

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Map Name(s) and Date(s)

	TQ1792NW 1973 1:1,250
TQ1692SE 1978 1:1,250	TQ1792SW 1968 1:1,250

Historical Map - Segment A13

Order Details

Order Number: 237926099_1_1
Customer Ref: LA20008
National Grid Reference: 516790, 192710
Slice: A
Site Area (Ha): 0.06
Search Buffer (m): 100

Site Details

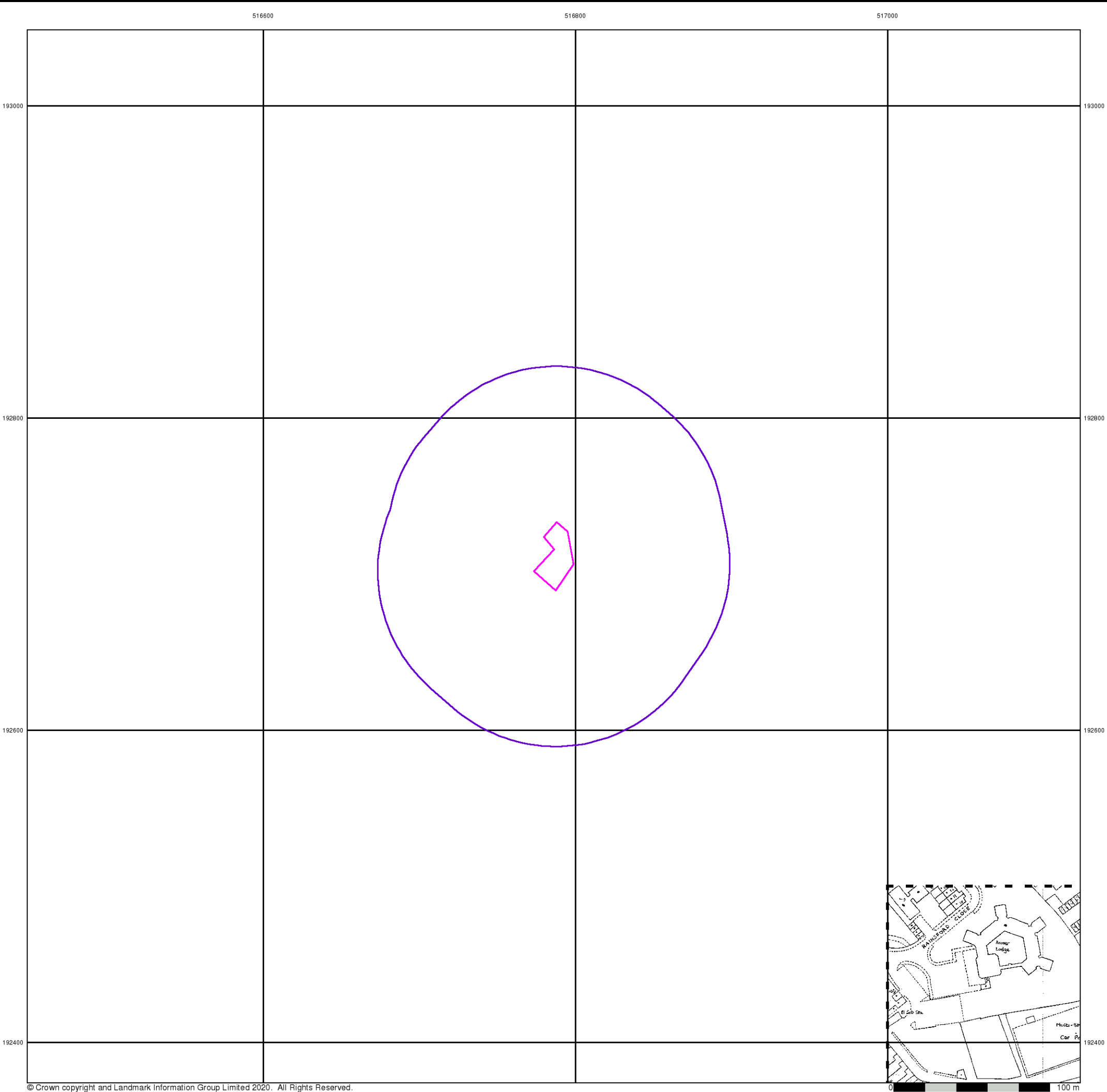
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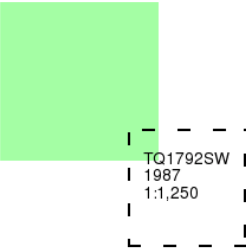
Additional SIMs

Published 1987

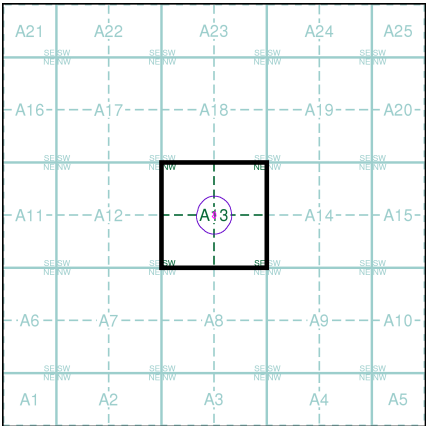
Source map scale - 1:1,250

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

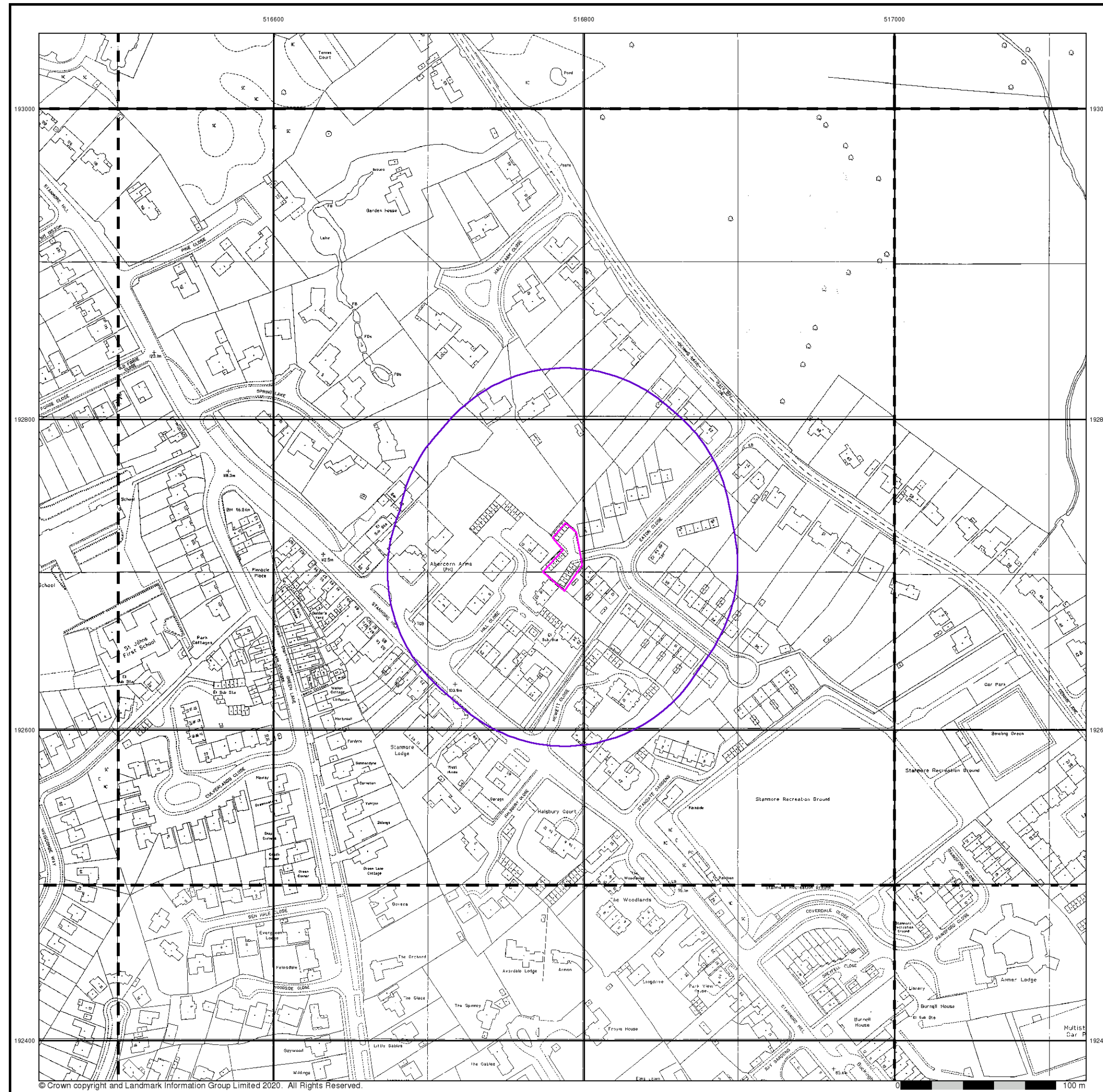


Order Details

Order Number: 237926099_1_1
Customer Ref: LA20008
National Grid Reference: 516790, 192710
Slice: A
Site Area (Ha): 0.06
Search Buffer (m): 100

Site Details

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Large-Scale National Grid Data

Published 1991

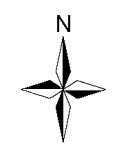
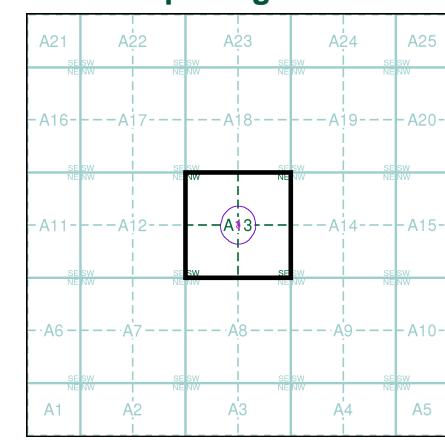
Source map scale - 1:1,250

'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)

Q1693SW	Q1693SE	Q1793SW
1991	1991	1991
1:1,250	1:1,250	1:1,250
Q1692NW	Q1692NE	Q1792NW
1991	1991	1991
1:1,250	1:1,250	1:1,250
Q1692SW	Q1692SE	Q1792SW
1991	1991	1991
1:1,250	1:1,250	1:1,250

Historical Map - Segment A13



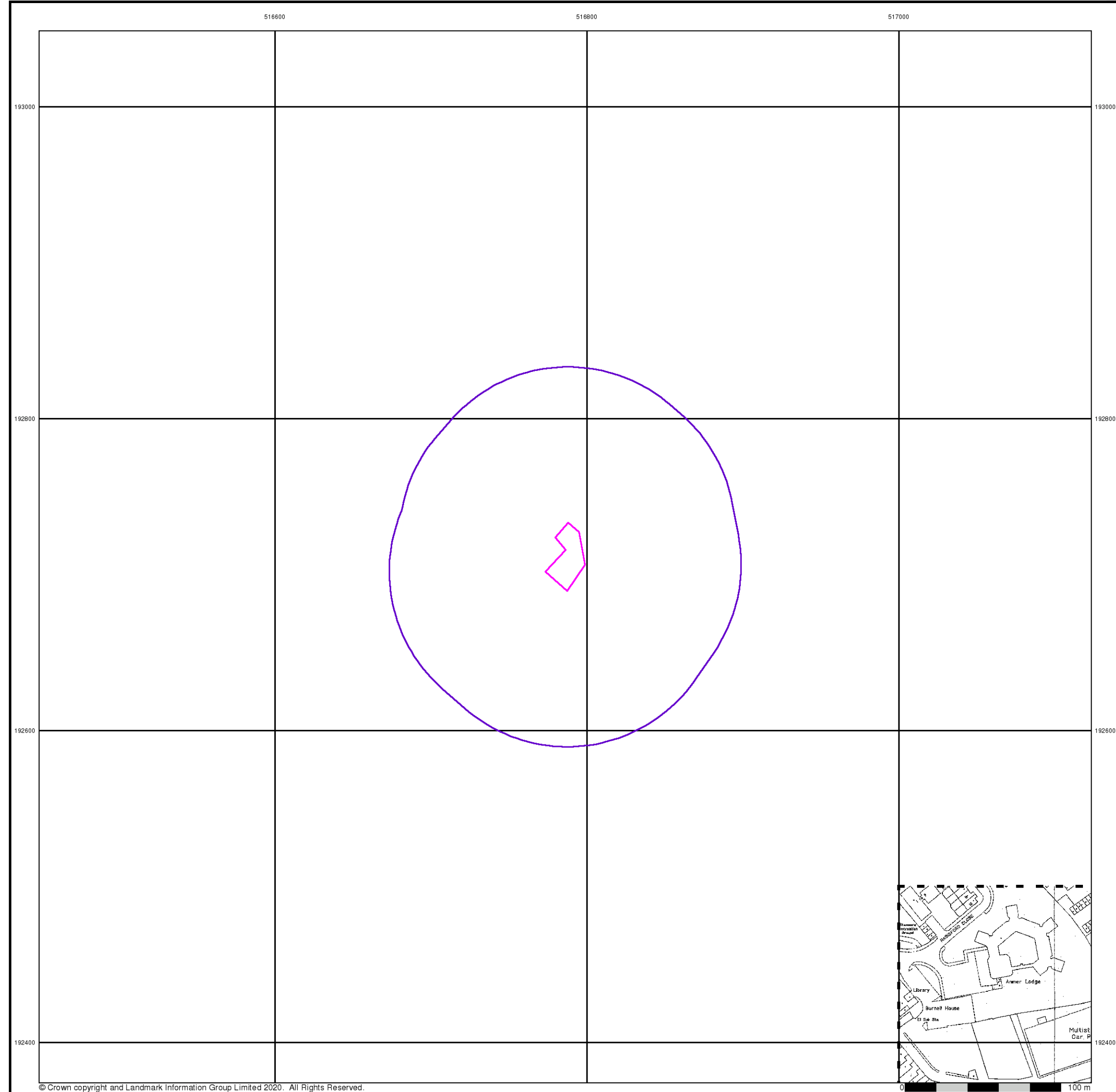
Order Details

Order Number: 237926099_1_1
Customer Ref: LA20008
National Grid Reference: 516790, 192710
Slice: A
Site Area (Ha): 0.06
Search Buffer (m): 100

Site Details

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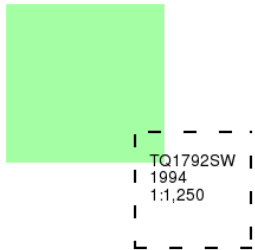
Large-Scale National Grid Data

Published 1994

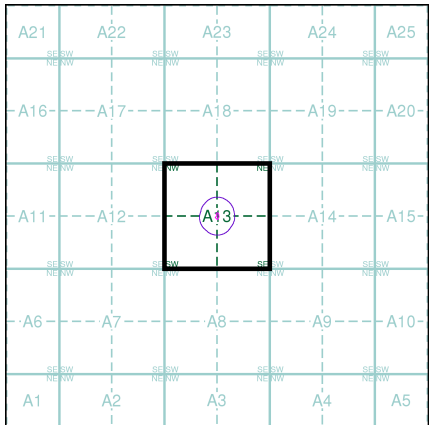
Source map scale - 1:1,250

'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

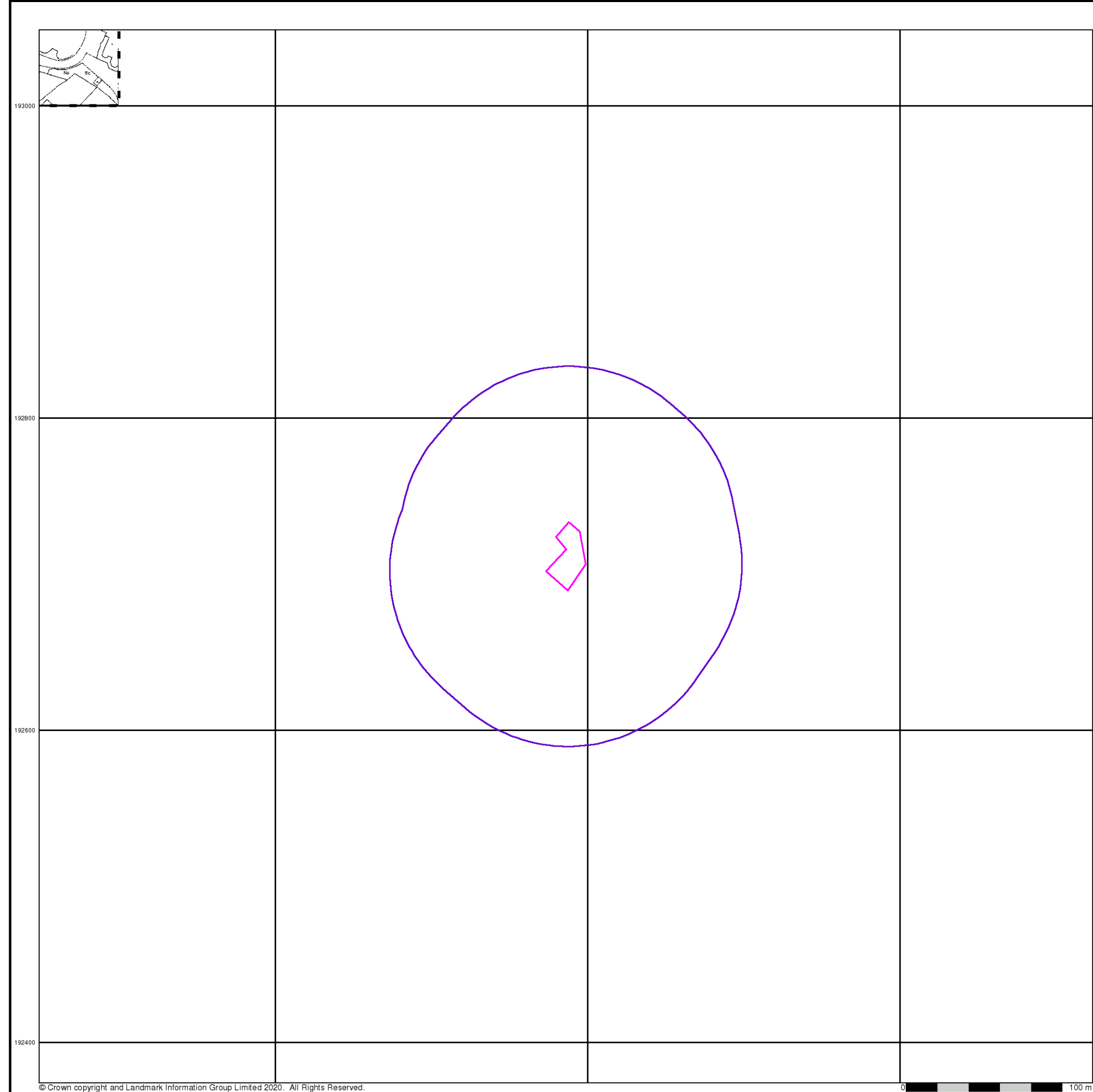
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Customer Ref: LA20008
National Grid Reference: 516790, 192710
Slice: A
Site Area (Ha): 0.06
Search Buffer (m): 100

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Large-Scale National Grid Data

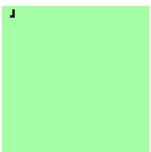
Published 1996

Source map scale - 1:1,250

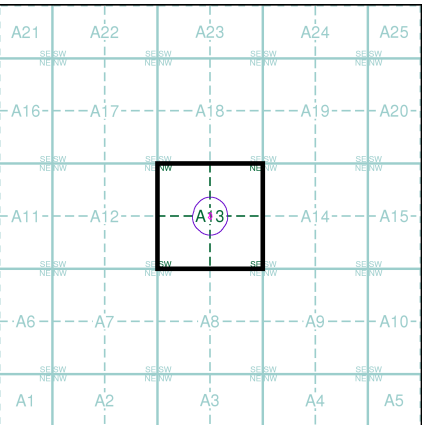
'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic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

Map Name(s) and Date(s)

TQ1693SW
1996
1:1,250



Historical Map - Segment A13



Order Details

Order Number: 237926099_1_1
Customer Ref: LA20008
National Grid Reference: 516790, 192710
Slice: A
Site Area (Ha): 0.06
Search Buffer (m): 100

Site Details

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Eaton Close, Harrow

SUBADRA

Environmental - Geotechnical - Laboratory - Foundations

13 Triangle Business Park, Wendover Road
Stoke Mandeville, Bucks HP22 5BL

Tel. 01296 739400 Email: consultants@subadra.com

**ATTACHMENT THREE:
GEO-HAZARDS REPORT**

Client: London Borough of Harrow

Report

LA20008 CL 002

Date

May 2020

Page

Attachment Three - 1

GARAGES ADJACENT 8, EATON CLOSE, STANMORE, HA7 3BT

Order Details

Date: 10/03/2020
Your ref: LA20008
Our Ref: GS-6675750
Client: Subadra Consulting

Site Details

Location: 516790 192714
Area: 0.06 ha



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Summary of findings

p. 2 **Aerial image**

p. 5

OS MasterMap site plan

p. 8 groundsure.com/insightuserguide

Contact us with any questions at:

info@groundsure.com

08444 159 000

Summary of findings

Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
9	<u>1.1</u>	<u>10k Availability</u>	Identified (within 500m)				
10	1.2	Artificial and made ground (10k)	0	0	0	0	-
11	<u>1.3</u>	<u>Superficial geology (10k)</u>	0	0	0	1	-
12	1.4	Landslip (10k)	0	0	0	0	-
13	<u>1.5</u>	<u>Bedrock geology (10k)</u>	1	0	0	1	-
14	1.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
15	<u>2.1</u>	<u>50k Availability</u>	Identified (within 500m)				
16	2.2	Artificial and made ground (50k)	0	0	0	0	-
16	2.3	Artificial ground permeability (50k)	0	0	-	-	-
17	<u>2.4</u>	<u>Superficial geology (50k)</u>	0	0	0	1	-
18	2.5	Superficial permeability (50k)	None (within 50m)				
18	2.6	Landslip (50k)	0	0	0	0	-
18	2.7	Landslip permeability (50k)	None (within 50m)				
19	<u>2.8</u>	<u>Bedrock geology (50k)</u>	1	0	0	1	-
20	<u>2.9</u>	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
20	2.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
21	3.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence					
22	<u>4.1</u>	<u>Shrink swell clays</u>	Moderate (within 50m)				
23	<u>4.2</u>	<u>Running sands</u>	Very low (within 50m)				
24	<u>4.3</u>	<u>Compressible deposits</u>	Negligible (within 50m)				
25	<u>4.4</u>	<u>Collapsible deposits</u>	Very low (within 50m)				
26	<u>4.5</u>	<u>Landslides</u>	Very low (within 50m)				
27	<u>4.6</u>	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				



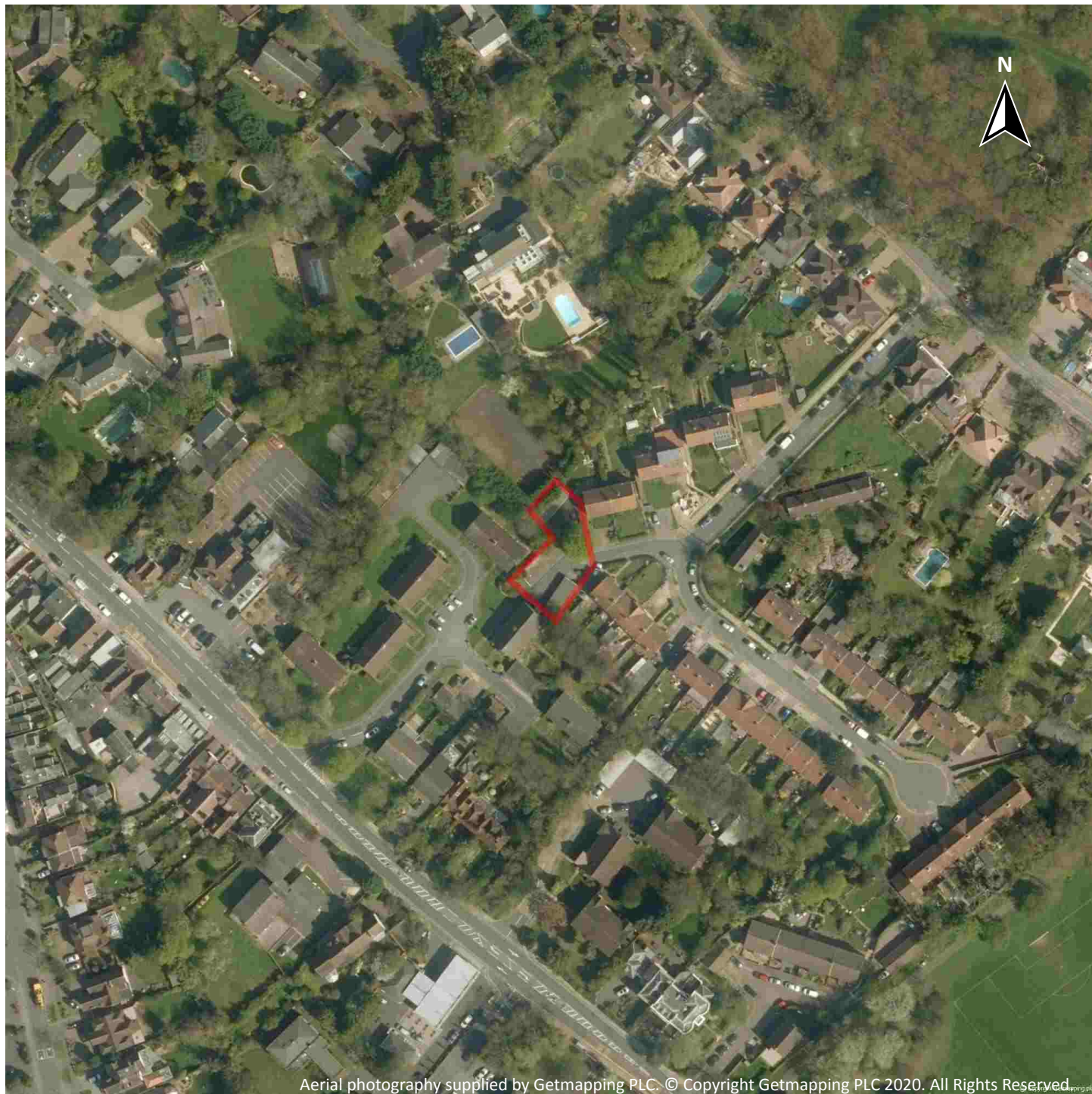
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
28	5.1	Natural cavities	0	0	0	0	-
29	5.2	BritPits	0	0	0	0	-
29	5.3	<u>Surface ground workings</u>	0	1	8	-	-
29	5.4	Underground workings	0	0	0	0	0
30	5.5	Historical Mineral Planning Areas	0	0	0	0	-
30	5.6	Non-coal mining	0	0	0	0	0
30	5.7	Mining cavities	0	0	0	0	0
30	5.8	JPB mining areas	None (within 0m)				
30	5.9	Coal mining	None (within 0m)				
31	5.10	Brine areas	None (within 0m)				
31	5.11	Gypsum areas	None (within 0m)				
31	5.12	Tin mining	None (within 0m)				
31	5.13	Clay mining	None (within 0m)				
Page	Section	Radon					
32	6.1	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
33	7.1	<u>BGS Estimated Background Soil Chemistry</u>	1	0	-	-	-
33	7.2	<u>BGS Estimated Urban Soil Chemistry</u>	2	2	-	-	-
34	7.3	<u>BGS Measured Urban Soil Chemistry</u>	0	1	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
35	8.1	Underground railways (London)	0	0	0	-	-
35	8.2	Underground railways (Non-London)	0	0	0	-	-
35	8.3	Railway tunnels	0	0	0	-	-
35	8.4	Historical railway and tunnel features	0	0	0	-	-
35	8.5	Royal Mail tunnels	0	0	0	-	-
36	8.6	Historical railways	0	0	0	-	-
36	8.7	Railways	0	0	0	-	-
36	8.8	Crossrail 1	0	0	0	0	-



36	8.9	Crossrail 2	0	0	0	0	-
36	8.10	HS2	0	0	0	0	-



Recent aerial photograph



Capture Date: 20/04/2015

Site Area: 0.06ha



Recent site history - 2013 aerial photograph



Capture Date: 28/04/2013

Site Area: 0.06ha



Recent site history - 1999 aerial photograph



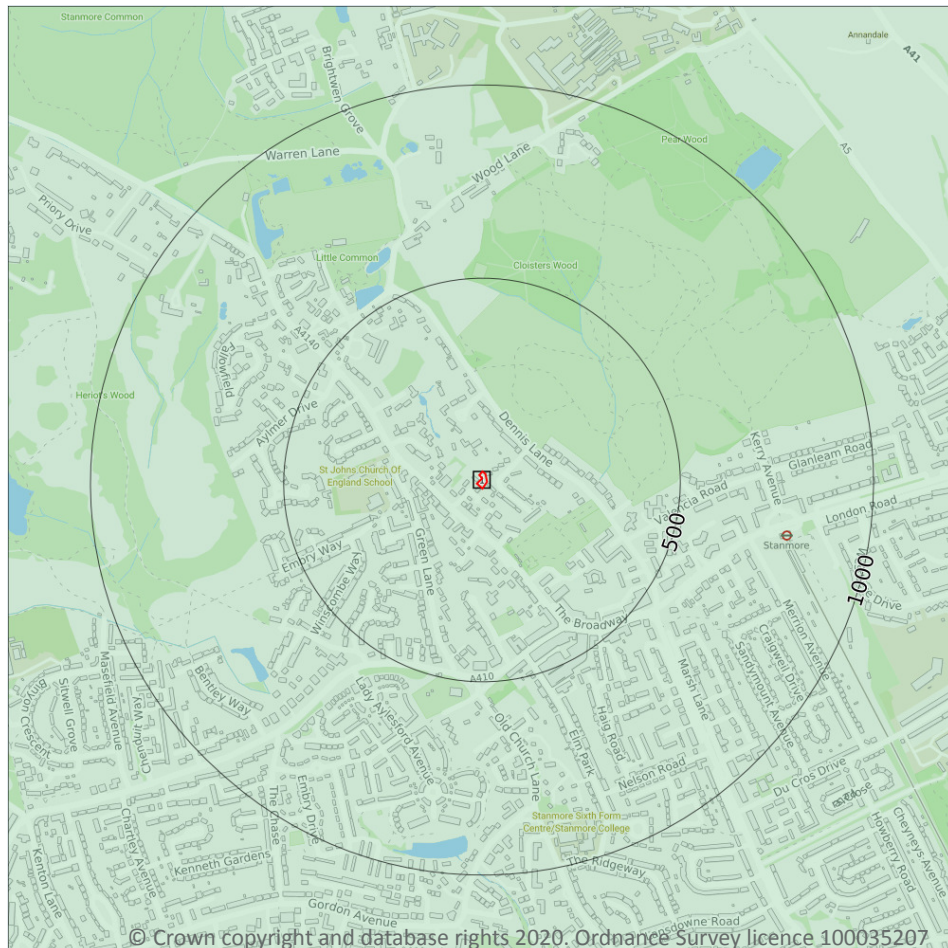
Capture Date: 29/08/1999

Site Area: 0.06ha





1 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

1.1 10k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 9**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	TQ19SE

This data is sourced from the British Geological Survey.



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

1.2 Artificial and made ground (10k)

Records within 500m

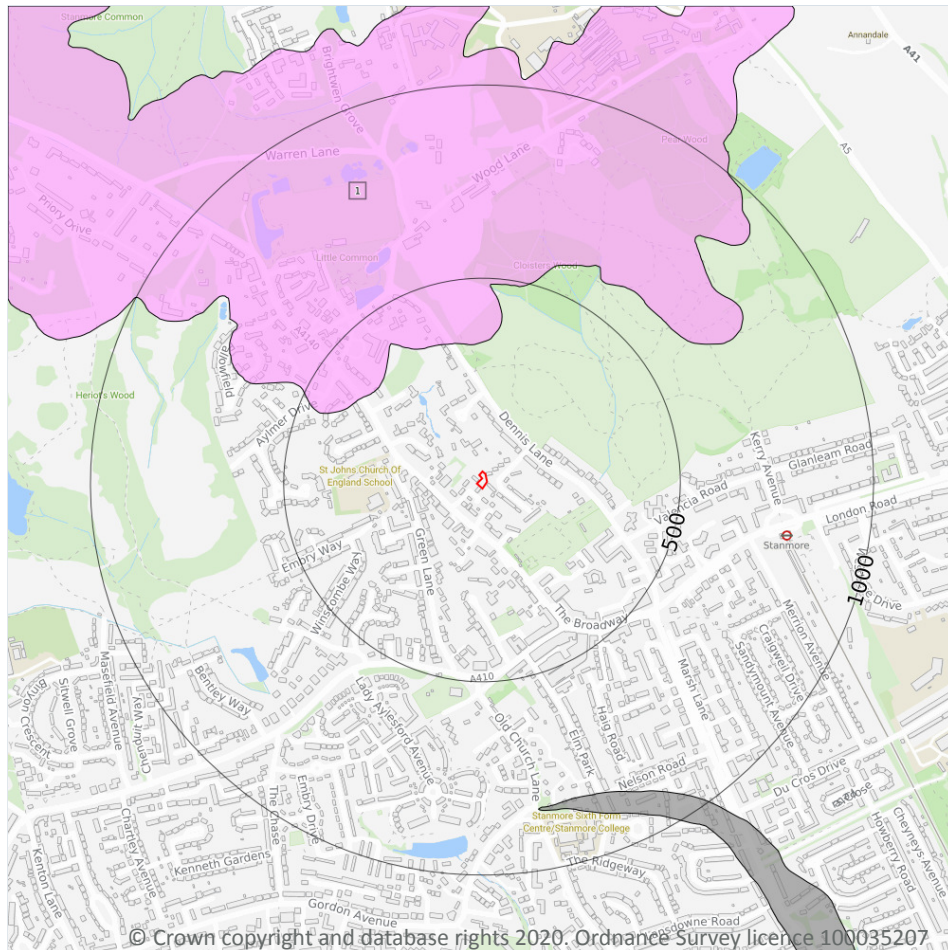
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



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

1.3 Superficial geology (10k)

Records within 500m

1

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 11**

ID	Location	LEX Code	Description	Rock description
1	329m N	STGR-XSV	Stanmore Gravel Formation - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.



1.4 Landslip (10k)

Records within 500m

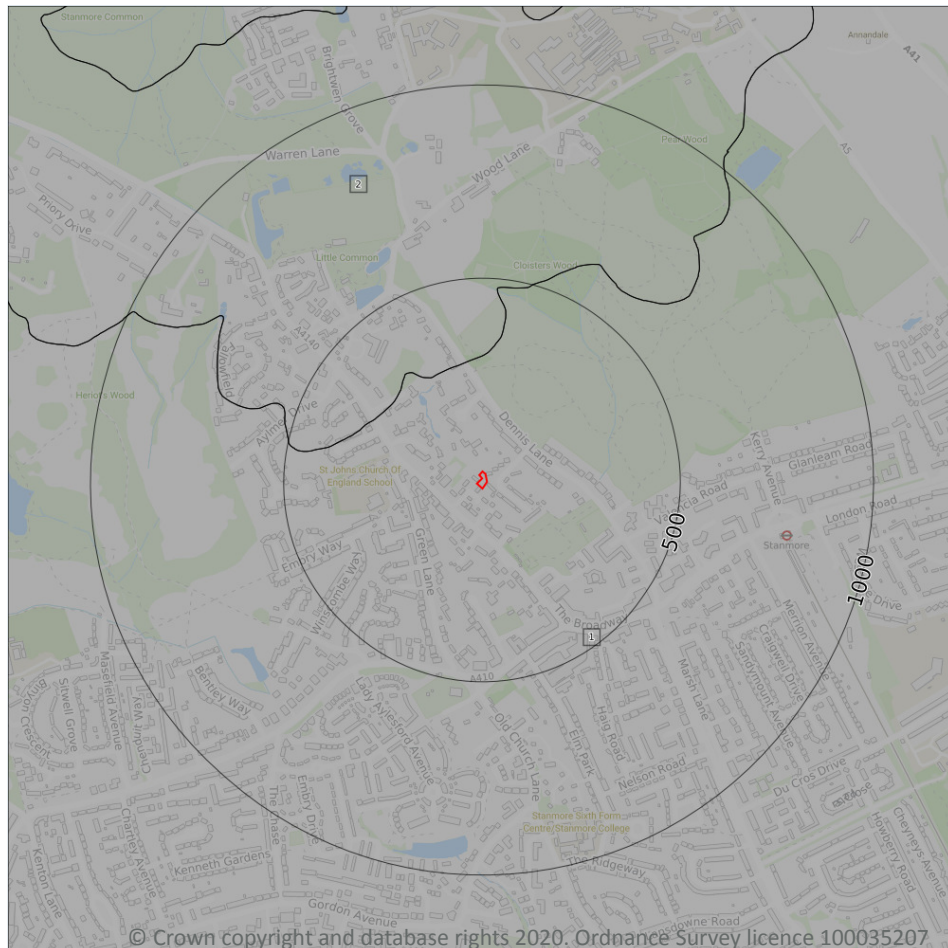
0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

1.5 Bedrock geology (10k)

Records within 500m

2

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 13**

ID	Location	LEX Code	Description	Rock age
1	On site	LC-CLAY	London Clay Formation - Clay	Eocene Epoch
2	276m NW	CLGB-SILT	Claygate Member - Silt	Eocene Epoch

This data is sourced from the British Geological Survey.



1.6 Bedrock faults and other linear features (10k)

Records within 500m

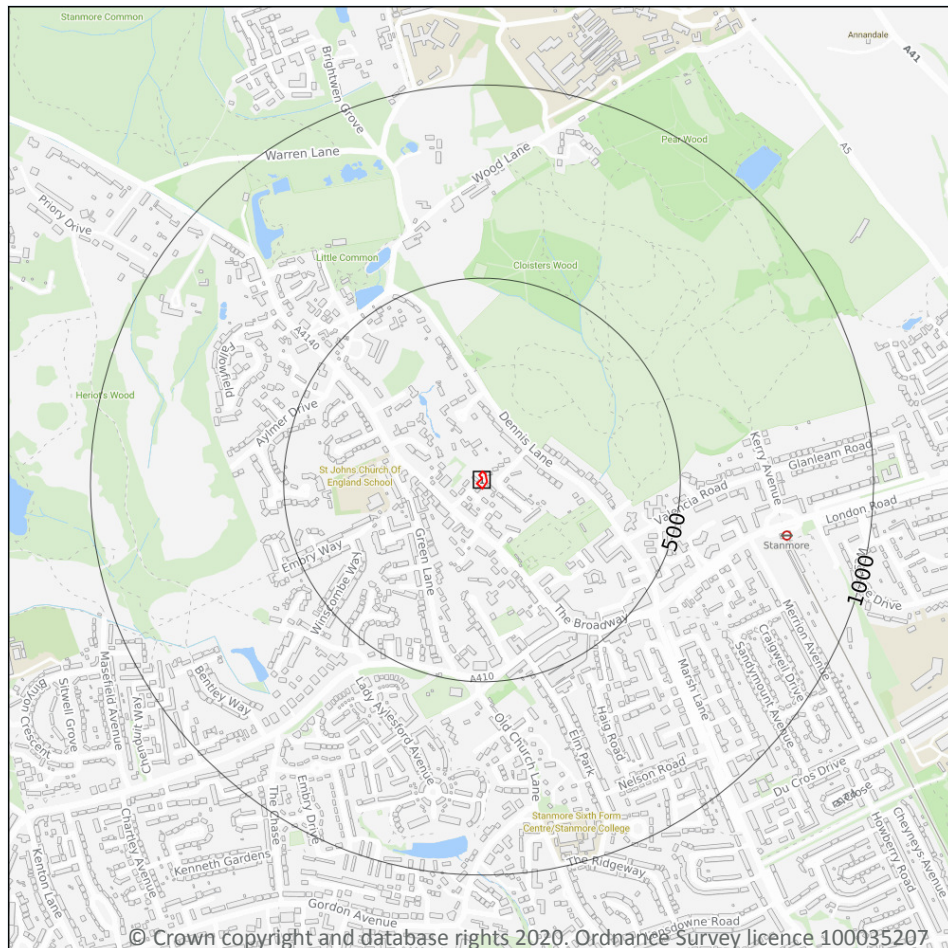
0

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

This data is sourced from the British Geological Survey.



2 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

□ Geological map tile

2.1 50k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 15**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW256_north_london_v4

This data is sourced from the British Geological Survey.



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

2.2 Artificial and made ground (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

2.3 Artificial ground permeability (50k)

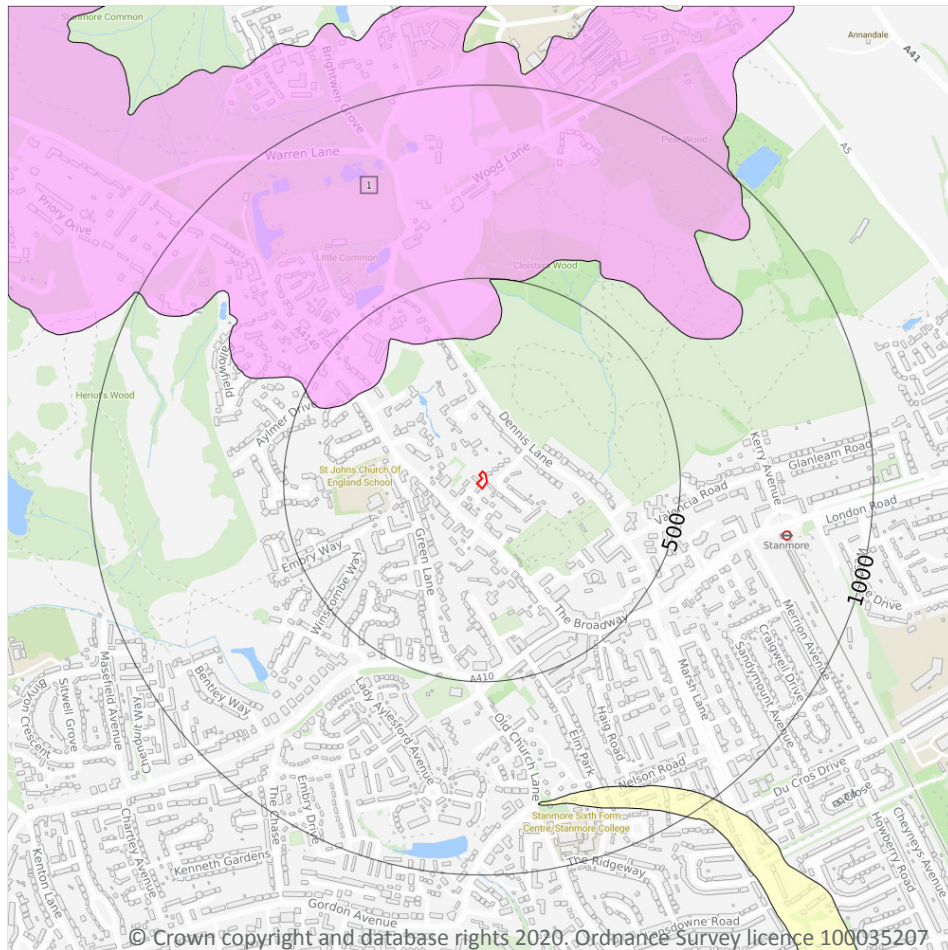
Records within 50m

0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

2.4 Superficial geology (50k)

Records within 500m

1

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 17**

ID	Location	LEX Code	Description	Rock description
1	342m N	STGR-XSV	STANMORE GRAVEL FORMATION	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

2.5 Superficial permeability (50k)

Records within 50m

0

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

This data is sourced from the British Geological Survey.

2.6 Landslip (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

2.7 Landslip permeability (50k)

Records within 50m

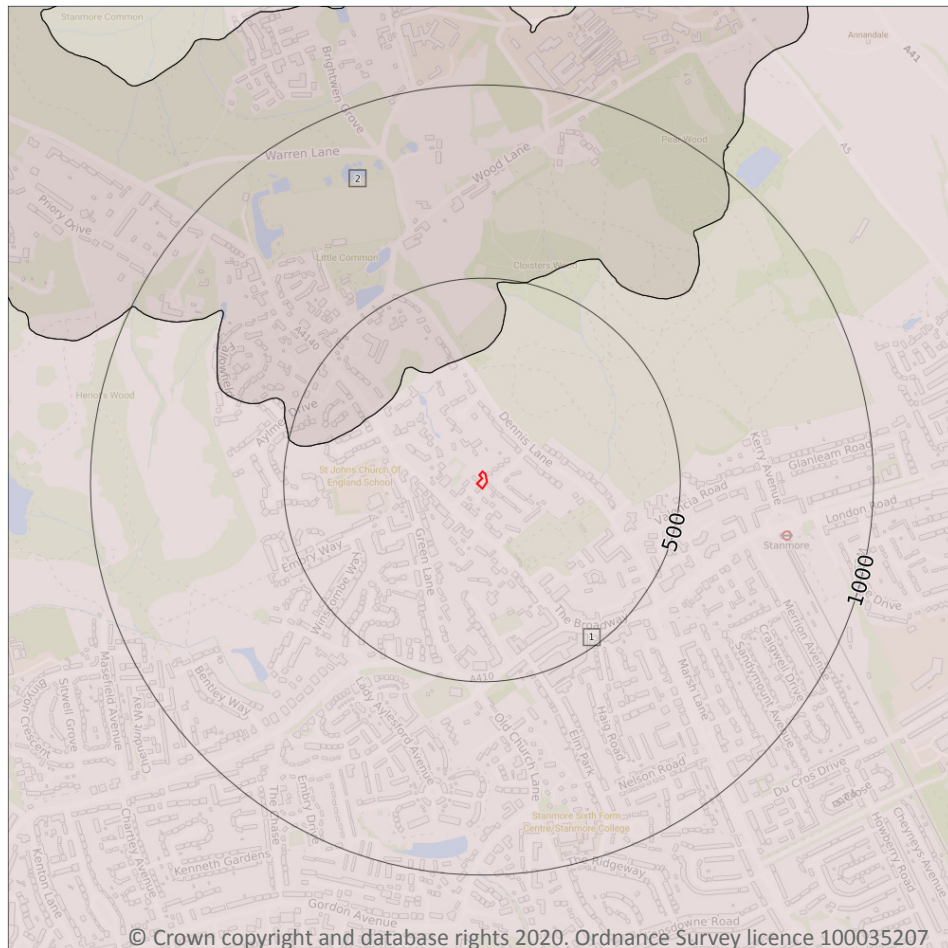
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

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

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

2.8 Bedrock geology (50k)

Records within 500m

2

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 19**

ID	Location	LEX Code	Description	Rock age
1	On site	LC-XCZS	LONDON CLAY FORMATION - CLAY, SILT AND SAND	YPRESIAN
2	288m NW	CLGB-XCZS	CLAYGATE MEMBER - CLAY, SILT AND SAND	YPRESIAN

This data is sourced from the British Geological Survey.



2.9 Bedrock permeability (50k)

Records within 50m

1

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

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

This data is sourced from the British Geological Survey.

2.10 Bedrock faults and other linear features (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



3 Boreholes

3.1 BGS Boreholes

Records within 250m

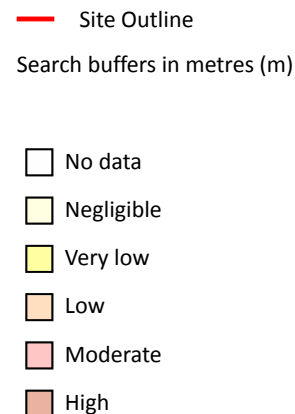
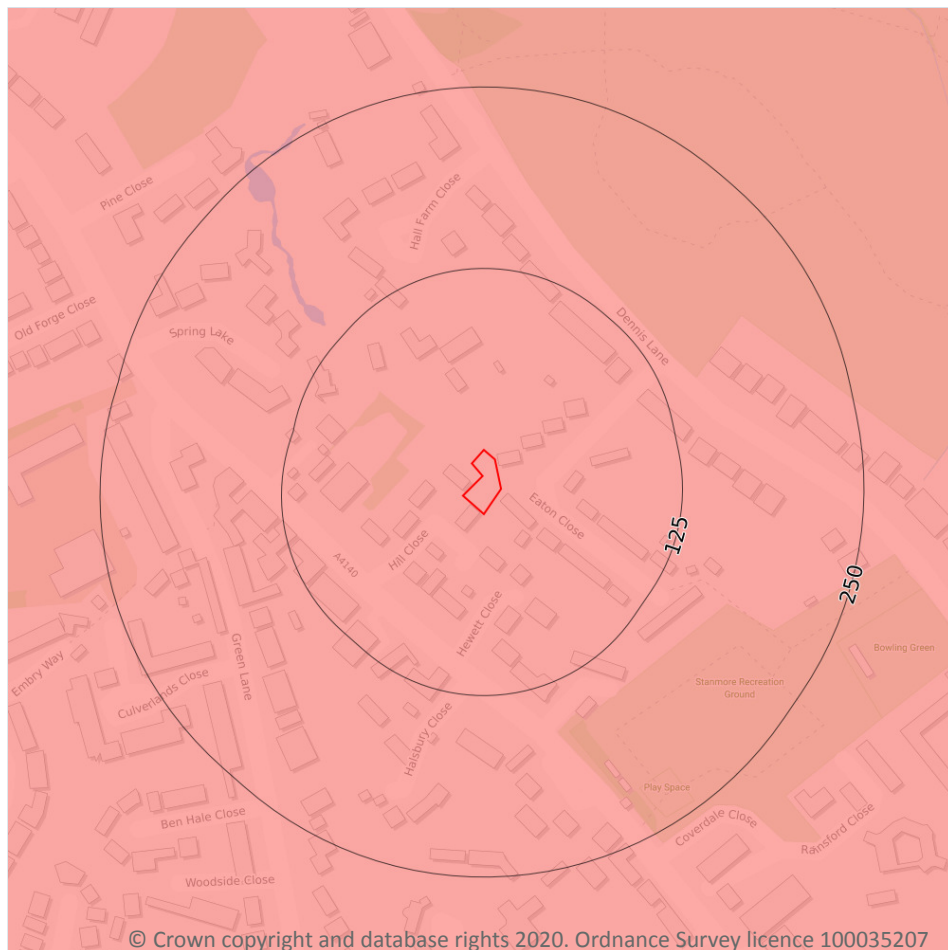
0

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

This data is sourced from the British Geological Survey.



4 Natural ground subsidence - Shrink swell clays



4.1 Shrink swell clays

Records within 50m

1

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

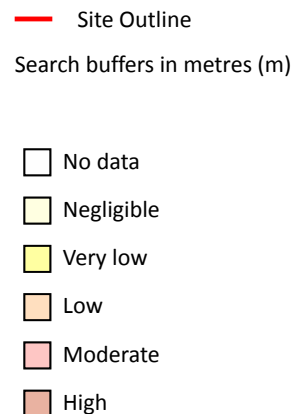
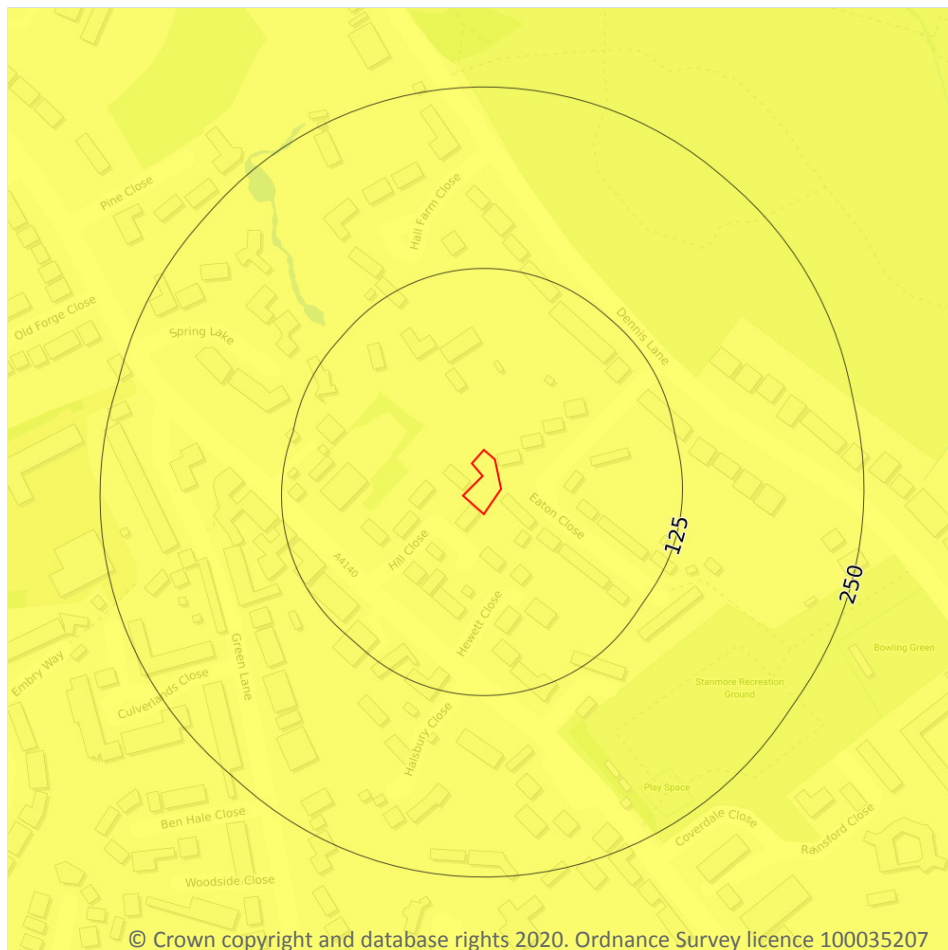
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 22**

Location	Hazard rating	Details
On site	Moderate	Ground conditions predominantly high plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



4.2 Running sands

Records within 50m

1

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

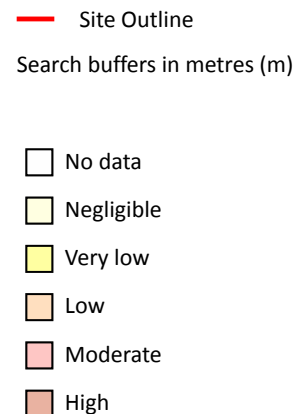
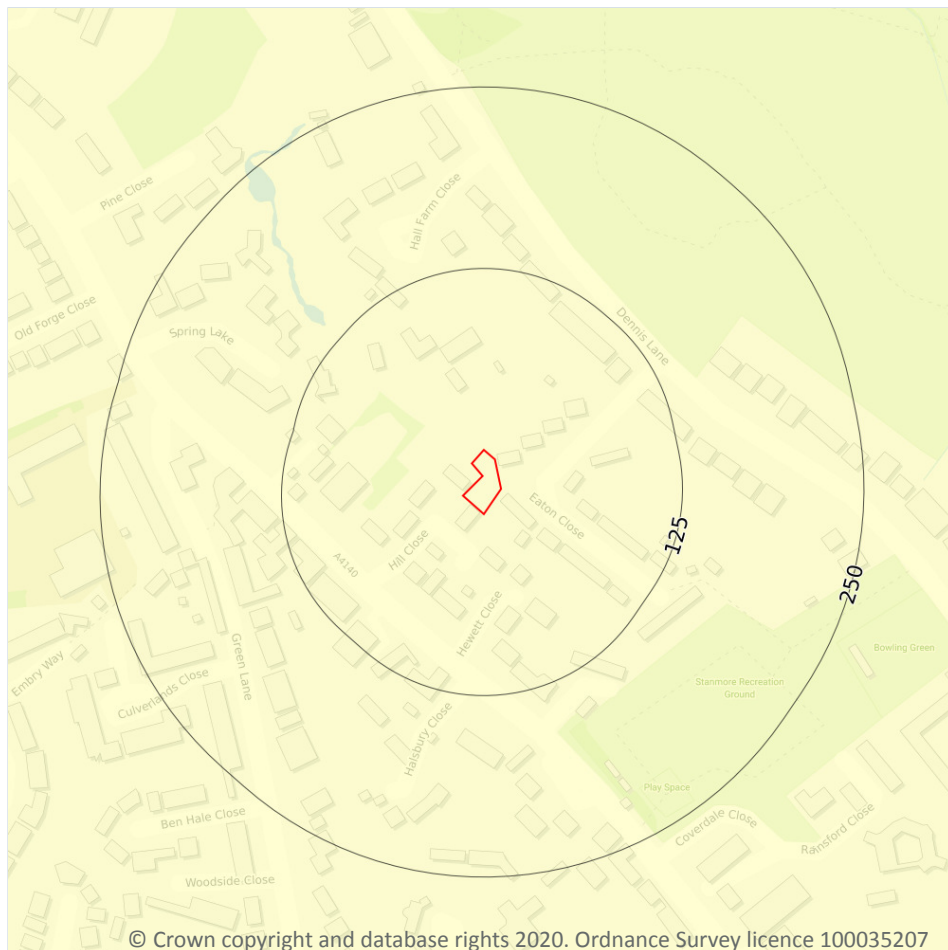
Features are displayed on the Natural ground subsidence - Running sands map on **page 23**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



4.3 Compressible deposits

Records within 50m

1

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

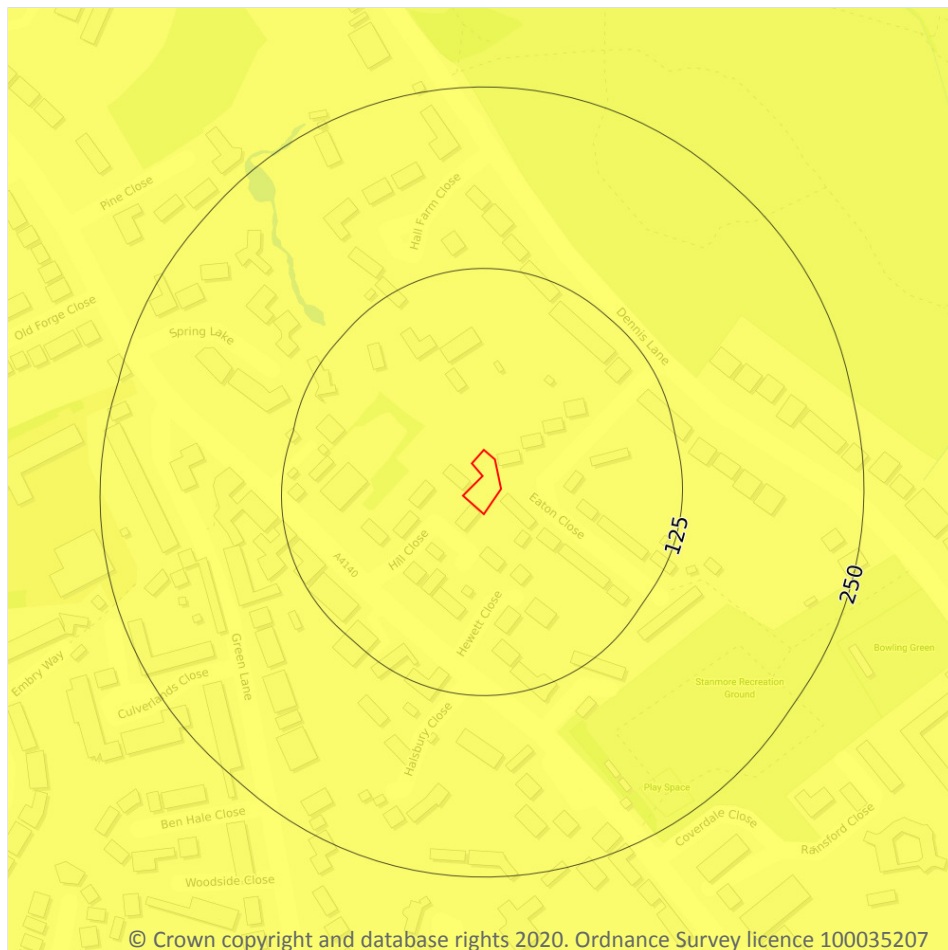
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 24**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



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

4.4 Collapsible deposits

Records within 50m

1

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

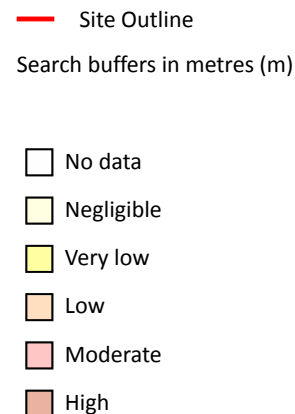
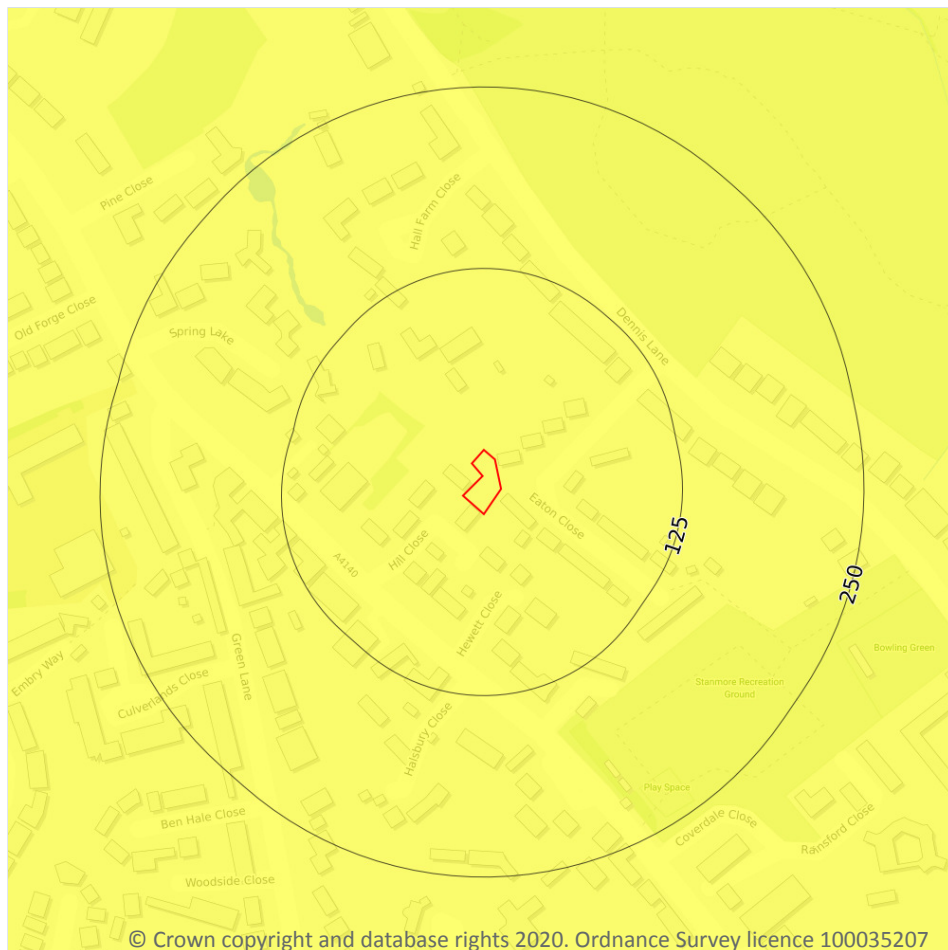
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 25**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



4.5 Landslides

Records within 50m

1

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

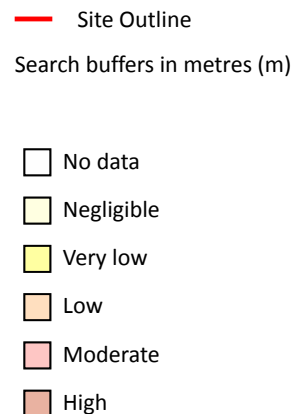
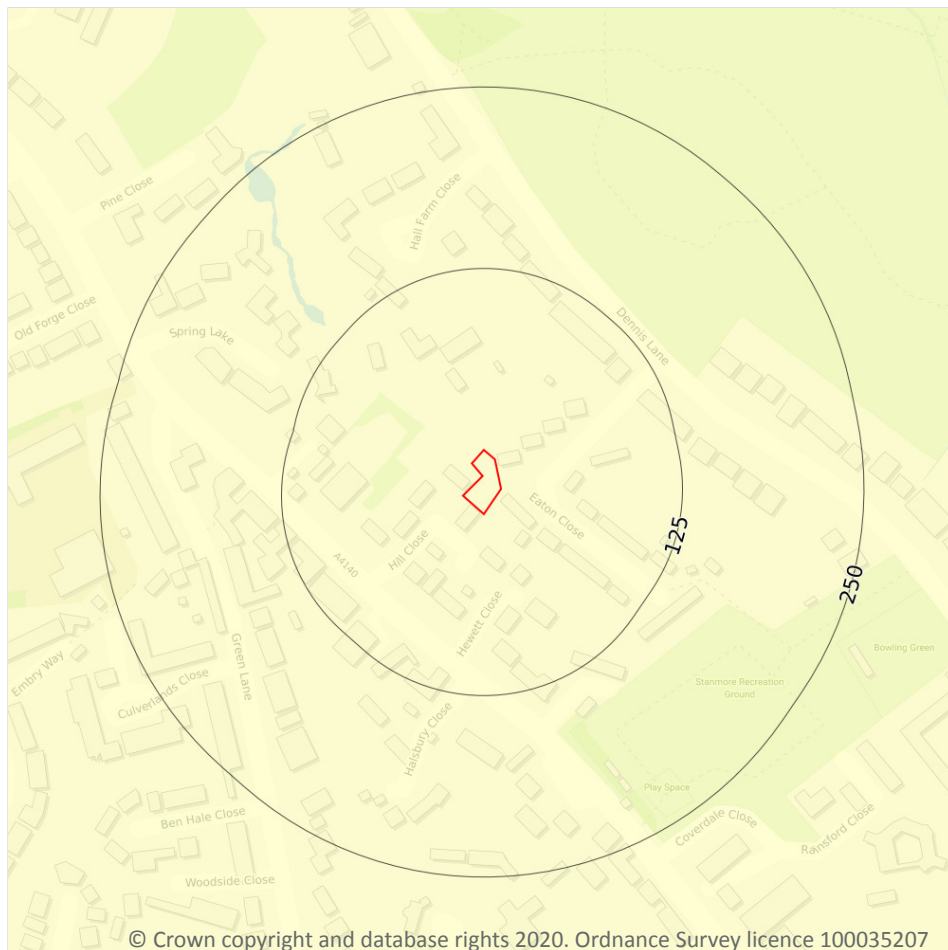
Features are displayed on the Natural ground subsidence - Landslides map on **page 26**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



4.6 Ground dissolution of soluble rocks

Records within 50m

1

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

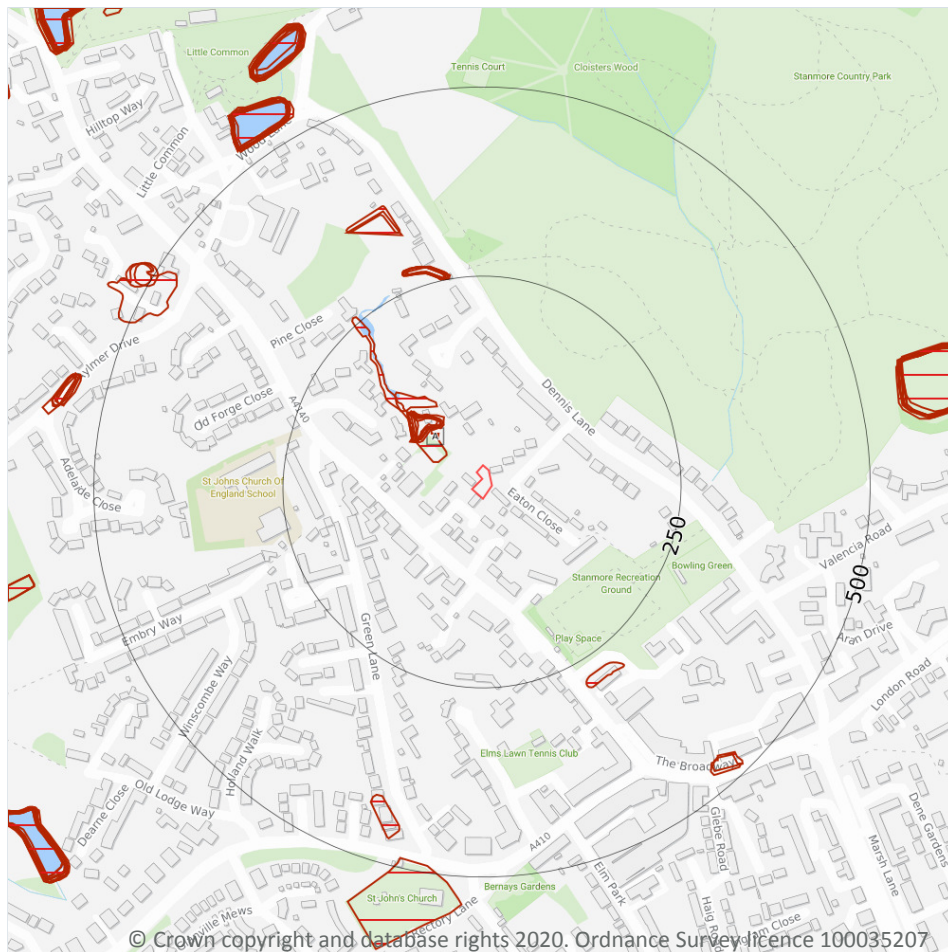
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 27**

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

This data is sourced from the British Geological Survey.



5 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

5.1 Natural cavities

Records within 500m

0

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

This data is sourced from Peter Brett Associates (PBA).

5.2 BritPits

Records within 500m

0

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

This data is sourced from the British Geological Survey.

5.3 Surface ground workings

Records within 250m

9

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 28**

ID	Location	Land Use	Year of mapping	Mapping scale
A	46m NW	Ponds	1895	1:10560
A	74m NW	Pond	1897	1:10560
A	77m NW	Pond	1865	1:10560
A	77m NW	Ponds	1950	1:10560
A	78m NW	Pond	1912	1:10560
A	78m NW	Pond	1920	1:10560
A	79m NW	Pond	1912	1:10560
A	82m NW	Pond	1968	1:10560
A	99m NW	Fish Pond	1865	1:10560

This data is sourced from Ordnance Survey/Groundsure.

5.4 Underground workings

Records within 1000m

0

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

This data is sourced from Ordnance Survey/Groundsure.



5.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

5.6 Non-coal mining

Records within 1000m

0

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

This data is sourced from the British Geological Survey.

5.7 Mining cavities

Records within 1000m

0

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

This data is sourced from Peter Brett Associates (PBA).

5.8 JPB mining areas

Records on site

0

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

This data is sourced from Johnson Poole and Bloomer.

5.9 Coal mining

Records on site

0

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

This data is sourced from the Coal Authority.



5.10 Brine areas

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

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

5.11 Gypsum areas

Records on site	0
-----------------	---

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

5.12 Tin mining

Records on site	0
-----------------	---

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

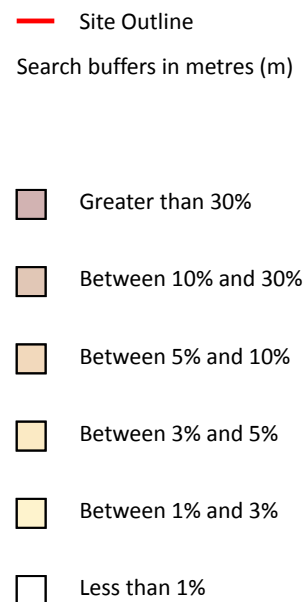
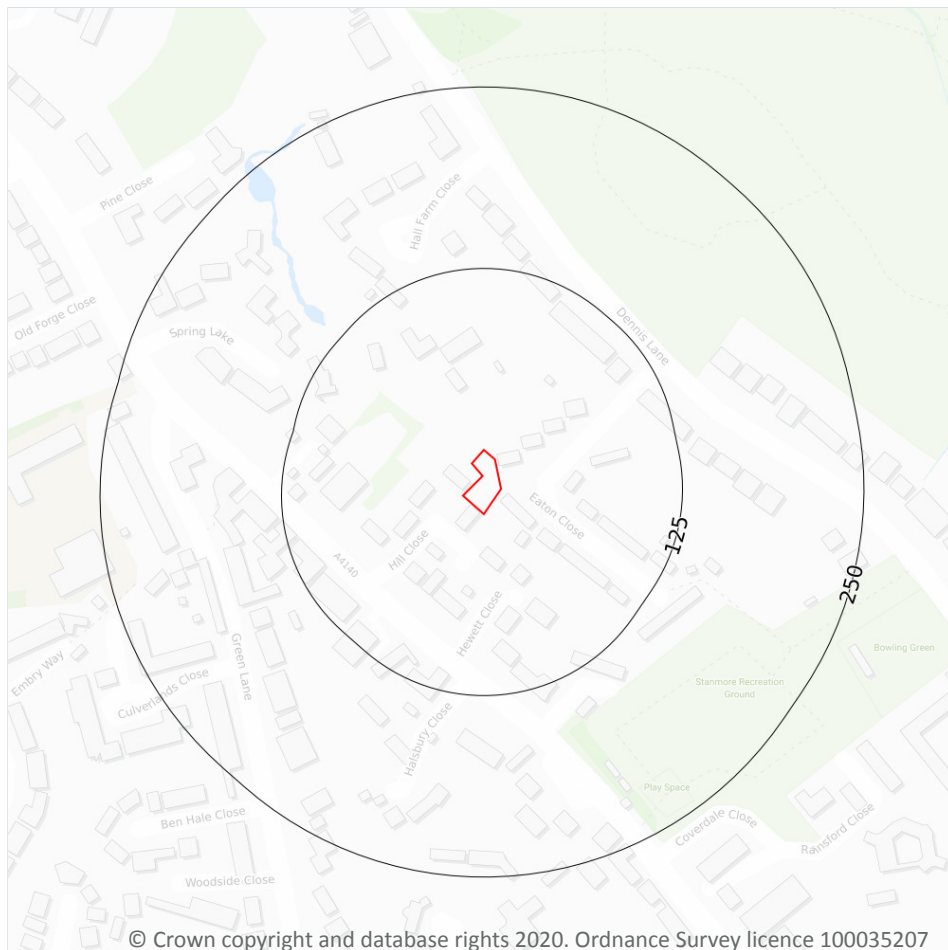
5.13 Clay mining

Records on site	0
-----------------	---

Generalised areas that may be affected by kaolin and ball clay extraction.

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

6 Radon



6.1 Radon

Records on site

1

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

Features are displayed on the Radon map on **page 32**

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

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



7 Soil chemistry

7.1 BGS Estimated Background Soil Chemistry

Records within 50m

1

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	No data	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	No data	No data

This data is sourced from the British Geological Survey.

7.2 BGS Estimated Urban Soil Chemistry

Records within 50m

4

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

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	18	3.2	105	72	-	106	42	42	10
On site	18	3.2	109	75	-	103	42	41	10
1m NE	18	3.2	103	71	-	107	42	43	10
4m SE	18	3.2	108	74	-	105	42	42	10

This data is sourced from the British Geological Survey.



7.3 BGS Measured Urban Soil Chemistry

Records within 50m

1

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

Location	Arsenic (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Lead (mg/kg)	Tin (mg/kg)	Sample Type
24m NE	18.4	-	107.2	41.7	42.9	102.2	9.8	Topsoil

This data is sourced from the British Geological Survey.



8 Railway infrastructure and projects

8.1 Underground railways (London)

Records within 250m**0**

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

This data is sourced from publicly available information by Groundsure.

8.2 Underground railways (Non-London)

Records within 250m**0**

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

This data is sourced from publicly available information by Groundsure.

8.3 Railway tunnels

Records within 250m**0**

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

8.4 Historical railway and tunnel features

Records within 250m**0**

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

This data is sourced from Ordnance Survey/Groundsure.

8.5 Royal Mail tunnels

Records within 250m**0**

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



This data is sourced from Groundsure/the Postal Museum.

8.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

8.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

8.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

8.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

8.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

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