London Borough of Hillingdon Council

Endeavour Sea Scout Group, Cowley

Desk Study and Ground Investigation Report

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TEC is ISO 9001:2015 and ISO 14001:2015 certified by Advanced Certification Limited, a UKAS Accredited Certification Body (number 8872) for the scope of 'Specialist consultancy services across the UK in contaminated land assessment, ground engineering, waste management and construction phase monitoring'.

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TABLE OF CONTENTS

Executive Summary

1 Introduction 1

2 Preliminary Risk Assessment 2

3 Ground Investigation Methodology 11

4 Ground Investigation Findings 13

5 Land Contamination - Generic Quantitative Risk Assessment 14

6 Land Contamination - Conclusions and Recommendations 17

7 Ground Engineering 18

8 Recommended Further Works 20

Figures and Drawings

Figure 1 Site Location Plan

Figure 2 Exploratory Hole Location Plan

Appendices

Appendix A Site Photographs

Appendix B Historical Maps

Appendix C Envirocheck®

Appendix D Regulatory Correspondence
- Environmental Health – London Borough of Hillingdon Council

Appendix E Risk Methodologies and Evaluation

Appendix F Exploratory Hole Logs
- TEC WS01 to WS09

Appendix G Geochemical Certificates of Analysis
- Chemtest Analytical Report No. 21-22289

Appendix H Generic Quantitative Risk Assessment: Human Health

EXECUTIVE SUMMARY

SITE INFORMATION	**Client**	London Borough of Hillingdon Council
	Site Details	Endeavour Sea Scout Group Hut, Cowley, London Borough of Hillingdon Borough, UB8 3SJ
	Current Land Use and Description	The site comprises a rectangular parcel of land containing a single structure that is used as a Sea Scout Hut, off Moorfield Road in Cowley. The site is approximately 0.05 hectares in size, with the centre of the site located at approximate National Grid Reference 505800, 181300.
	Proposed Development	It is understood that the proposed development is to comprise the demolition of the existing hall to allow for the construction of a single storey structure to accommodate a new scout centre.
BACKGROUND INFORMATION	**Geology**	Available British Geological Survey (BGS) mapping indicates the site is underlain by superficial deposits of the Langley Silt Member, described as "silt to clay, commonly yellow-brown and massively bedded". The superficial deposits on site are underlain by the London Clay Formation, described by the BGS as "bioturbated or poorly laminated, blue-grey or grey-brown, slightly calcareous, silty to very silty clay, clayey silt and sometimes silt, with some layers of sandy clay."
	Hydrogeology	The Langley Silt Member and the London Clay Formation are both recorded as Unproductive Strata. The site is not within a reported Source Protection Zone and no groundwater abstractions are recorded within 1km of the site boundary. 1No. discharge consent is recorded within 1km of the site, located ~580m west, relating to a soakaway. The site is not located within an area with potential for groundwater flooding.
	Hydrology	The unnamed stream is recorded ~190m east. 1No. surface water abstraction is recorded within 1km, associated with "cooling". 7No. pollution incidents are recorded within 500m of the site and were all classified as Category 3, minor incidents. 6No. incidents were related to oil, while the remaining 1No. was reported as miscellaneous pollutions.
	Site History	Earliest available mapping indicates the site remained undeveloped prior to 1934. From this date, a filter bed associated with the nearby Uxbridge & Yiewsley Joint Drainage Committee sewage works is depicted on site until 1948. From 1963, the sewage works infrastructure is no longer present and the site is noted to be part of a 'playground' and from 1972, the site is shown in its current layout.
GROUND INVESTIGATION	**Ground Investigation Rationale**	The exploratory ground investigation was undertaken in general accordance with the scope of works detailed by the London Borough of Hillingdon during the tender stage. The ground investigation was undertaken to provide information on the ground conditions to aid with the design of the development; and to investigate the potential pollutant linkages identified as part of the Preliminary Risk Assessment.
	Scope of Works	The advancement of 9No. dynamic sample boreholes to allow for the characterisation of the underlying ground materials and for the collection of representative samples for geochemical and geotechnical laboratory analysis.
	Ground Conditions	Made ground was recorded across the site and was generally observed to comprise slightly sandy, gravelly clayey silt with occasional rootlets. The gravel component was observed to comprise chert, brick, concrete, mudstone and clinker. Due to refusal on suspected concrete within the remaining locations, the natural ground was not encountered across the site to depths in excess of 1.6mbgl.

LAND CONTAMINATION	**Contamination Characterisation**	No visual or olfactory evidence of significant contamination was noted during the ground investigation. Notwithstanding this, laboratory analysis of representative made ground materials recorded the exceedance of a number of the GAC's for PAH's and heavy metals. The site is not situated within a radon affected area.
	Identified Pollutant Linkages	Human Health (future site end users and construction workers) - Exposure to potential contaminants of concern through ingestion, inhalation and dermal contact pathways.
	Remediation Appraisal / Likely Remedial Approach	Where soft landscaping is proposed and where made ground remains after finished site levels have been achieved, localised exposure to potential contaminants cannot be discounted and a suitable cover system may be required within areas of soft landscaping.
RECOMMENDED FURTHER WORKS		Based on the ground materials encountered to date, further investigation is recommended across the site to allow for characterisation of underlying ground materials and to ascertain site specific parameters to aid with geotechnical foundation design.

1 INTRODUCTION

1.1 Terms of Reference

1.1.1 TEC has been appointed by the London Borough of Hillingdon Council to undertake a preliminary land contamination and geotechnical assessment of the Endeavour Sea Scout Group site in Cowley. All works were undertaken in accordance with our proposal letter dated 25 May 2021 and referenced CH.2105014.001.

1.2 Background

1.2.1 The site is situated off Moorfield Road, Cowley (Figure 1). The site is approximately 0.05 hectares in size, with the centre of the site located at approximate National Grid Reference 505800, 181300. The nearest postcode to the site is UB8 3SJ.

1.2.2 It is understood that the proposed development is to comprise the demolition of the existing hall structure to allow for the construction of a single storey structure to accommodate a new scout centre.

1.2.3 The aim of these works is to provide information on land contamination risk and the ground engineering conditions and constraints associated with the site with regard to the proposed development; to satisfy condition of planning.

1.3 Scope of Works

1.3.1 The scope of work undertaken as part of this report is presented below:

- **Preliminary Risk Assessment:** this phase of assessment involves development of an initial site conceptual model, based on desk study research and a site reconnaissance survey, in order to establish whether or not there are potentially unacceptable risks.

- **Land Contamination - Generic Quantitative Risk Assessment:** this phase of assessment involves updating the site conceptual model developed as part of the Preliminary Risk Assessment based on the findings of an exploratory ground investigation. Generic assessment criteria and assumptions, if appropriate, are used to identify relevant pollutant linkages.

- **Ground Engineering:** general recommendations in relation to ground engineering for the proposed development are provided on the basis of the findings of the exploratory ground investigation.

1.3.2 The above scope of work has been undertaken in accordance with current guidance such as LCRM - *Land contamination: risk management* (Environment Agency, 2020), BS10175+A2 (2017) and, where appropriate NHBC and Eurocode 7.

2 PRELIMINARY RISK ASSESSMENT

2.1 Introduction

2.1.1 Information for this preliminary risk assessment (PRA) has been obtained from a site reconnaissance survey and a review of an Envirocheck® report obtained for the site (Appendix B and Appendix C) together with published available information where relevant.

2.2 Site Setting

2.2.1 A site reconnaissance survey was undertaken on 25 June 2021. A summary of the observations is presented in Table 2.1. Photographs taken during the site reconnaissance survey are presented in Appendix A.

Table 2.1: Site Details

Feature	Description	
Current Site Use	Active Sea Scout Hut with associated hardstanding, off Moorfield Road in Cowley.	
Site Context	The site is located with a residential area.	
Site Boundary Features	North	Recreational park and playground, with residential properties beyond.
	East	Moorfield Road with residential properties beyond.
	South	Residential properties.
	West	Residential properties.
Site Topography	The site was noted to be predominantly flat with no significant changes in local topography noted. The available ordnance datum for the site indicates the site lies at approximately 31m Above Ordnance Datum (AOD).	
Hard and Soft Landscaping	The site is predominantly laid to hard landscaping comprising the existing scout hut structure and a concrete parking area / access road along the eastern boundary of the site. The areas surrounding the hut to the north, west and south were observed to comprise a combination of concrete and exposed soil.	
Trees	A number of semi -mature to mature trees were noted around the borders of the site.	
Fuel, Hazardous Chemicals and Waste Materials Storage	No above ground storage tanks or evidence of underground storage tanks were noted during the site reconnaissance. A number of propane tanks were noted within a cage, along the southern boundary of the site.	
Asbestos Containing Materials	No potential ACM was noted during the site reconnaissance.	
Site Drainage	A number of manhole covers were noted on site, associated with onsite drainage.	
Evidence of Potential Contamination	No visual or olfactory evidence of contamination was noted during the site reconnaissance.	
Ground Stability Hazards	A number of cracks were observed on external walls of the existing structure.	

2.3 Site History

2.3.1 Details of the history of the site and surrounding area, relevant to this preliminary risk assessment, have been obtained through the review of historical Ordnance Survey (OS) mapping. A summary of potentially

significant features is recorded in Table 2.2, which should be read in conjunction with the full map extracts contained within Appendix B.

Table 2.2: Historical Features Summary

On Site Features			**OS Dates**
Earliest available mapping indicates the site remained undeveloped prior to 1934. From this date, a filter bed associated with the nearby Uxbridge & Yiewsley Joint Drainage Committee sewage works is depicted on site until 1948.			1865 – 1948
From 1963, the sewage works infrastructure is no longer present and the site is noted to be part of a 'playground'.			1963 – 1970
From 1972, the site is shown in its current layout.			1972 – 2021
Surrounding Features	**Distance**	**Direction**	**OS Dates**
Great Western Railway	~50m	West	1865 – 2021
Sewage Works	from 50m	Northeast	1914 – 1960
Smithy	~200m	West	1914
Sludge Beds	from 115m	Northeast	1934
Factory; *later joinery works and engineering works*	from 200m	Southwest	1963 - 2021
Electrical sub-station	Adjacent	South	1971 – 2021
Warehouses	~250m	Southwest	1971 – 2021

2.4 Geology

2.4.1 A summary of available geological information for the area is provided in Table 2.3.

Table 2.3: Geological Setting

BGS Geological Mapping (Ref. Solid and Drift 1:50,000 map - Windsor, Sheet 269)			
Geological Unit		**Thickness**	**BGS Description**
Made Ground		Unknown	Not recorded on geological mapping but may be present on site.
Superficial Deposits: Langley Silt Member		Unknown	Varies from silt to clay, commonly yellow-brown and massively bedded.
Solid Geology: London Clay Formation (Thames Group)		Unknown	The London Clay mainly comprises bioturbated or poorly laminated, blue-grey or grey-brown, slightly calcareous, silty to very silty clay, clayey silt and sometimes silt, with some layers of sandy clay.
BGS Borehole Records			
BGS Reference	**Distance/ Direction**	**Depth**	**Recorded Strata**
TQ08SE7	~310m/ SE	4ft/~1m 9ft/ ~3m 150ft/~45m 162ft/~50m	Made ground Clay and flint Clay and sand layers Chalk

BGS Estimated Soil Chemistry	
Element	**Estimated Concentration**
Arsenic	15-25 mg/kg
Chromium	60-90 mg/kg
Cadmium	<1.8 mg/kg
Lead	300-600 mg/kg
Nickel	15-45 mg/kg
Radon	
Radon Potential	**Radon Protection Requirement**
Lower Probability Radon Area (less than 1% of homes are estimated to be at or above the Action Level)	None reported to be required

2.5 Hydrogeology

2.5.1 The Envirocheck® report and Environment Agency information records the following hydrogeological setting of the site.

Table 2.4: Hydrogeological Setting

Aquifer Status			
Geological Unit	**Groundwater Vulnerability/ Aquifer Designation**	**Environment Agency Aquifer Classification**	**Potential Hydraulic Gradient Direction**
Superficial Deposits: Langley Silt Member	Unproductive Strata	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.	-
Solid Geology: London Clay Formation (Thames Group)	Unproductive Strata	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.	-
Source Protection Zones			
None recorded within 1km			
Groundwater Abstractions			
None recorded within 1km			
Discharge Consents to Groundwater			
1No. recorded within 1km			
Receiving Water	**Effluent Type**	**Distance/ Direction from Site**	
Groundwater via Soakaway	Sewage Discharges - Final/Treated Effluent - Not Water Company	~580m West	
BGS Groundwater Flooding Susceptibility			
The site is not situated within an area designated by the BGS as being susceptible to groundwater flooding.			

2.6 Hydrology

2.6.1 The hydrological setting of the site is summarised in Table 2.5:

Table 2.5: Hydrological Setting

Nearest Surface Water Features		
Feature	**River Quality (GQA Grade)**	**Distance/ Direction from Site**
Drain/Channel	-	~190m East
Licensed Discharge Consents		
1No recorded within 500m		
Receiving Water	**Effluent Type**	**Distance/ Direction from Site**
River Pinn	Discharge of other matter – surface water	~285m South
Surface Water Abstractions		
1No. recorded within 500m		
Details	**Abstraction Use**	**Distance/ Direction from Site**
River/Stream Intake - British Waterways	Cooling	~500m South
Pollution Incidents		
7No. recorded within 500m		
Receiving Water	**Pollutant/ Incident**	**Distance/ Direction from Site**
Not Given	Oils – Unknown, Category 3 - Minor Incident	~265m West
		~290m South
		~400m South
		~400m South
		~405m South
		~405m South
	Miscellaneous – Unknown, Category 3 - Minor Incident	~305m East
Flooding from Rivers or Seas		
On Site Designation	**Off Site Areas of Flooding**	
No data	~95m west: Extent extreme flooding from rivers or seas without defences	

2.7 Environmental Data

2.7.1 Additional relevant environmental data from the Envirocheck® report for the site is summarised in Table 2.6.

Table 2.6: Additional Environmental Data Summary

Landfill Sites			
2No. historical landfills recorded within 500m			
Name/ Location	**Specified Waste**	**Input Dates**	**Distance/ Direction from Site**
British Waterways Site, Yiewsley, Hillingdon, London	Inert, industrial, commercial, household and Liquid Sludge	1890 - 1996	~385m Southwest
Cowley Lane, Cowley Peachey, Yiewsley, Hillingdon, London	Inert, Industrial, Commercial and Household Waste	1899 – unknown	~430m West
Potentially Infilled Land (Water)			
1No. Recorded within 500m			
Type	**Distance/ Direction from Site**		**Date on Mapping**
Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	490m west		1934
Potentially Infilled Land (Non-Water)			
2No. Recorded within 500m			
Type	**Distance/ Direction from Site**		**Date on Mapping**
Unknown Filled Ground (Pit, quarry etc)	~405m East		1990
	~490m East		1990
Commercial/ Industrial Land Use (Active Contemporary Trade Directories)			
12No. significant land uses identified within 500m			
Classification		**No. within 500m**	**Distance/ Direction from Site**
Scaffolding & Work Platforms		1	~140m southwest
Spring Manufacturers & Distributors		1	~315m west
Electrical Goods Sales, Manufacturers & Wholesalers		1	~320m south
Printers		1	~330m west
Bathroom Fixtures - Manufacturers		1	~370m west
Car Dealers		2	~360m southwest, ~410m west
Heating Equipment - Sales & Service		1	~400m west
Cleaning Services - Domestic		1	~450m southeast
Garage Services		1	~460m south
Car Body Repairs		1	~460m south
Petrol Filling Stations		1	~500m south

Hazardous Substances (Authorisations, Consents, Incidents)		
2No. recorded within 500m		
Category	**Details**	**Distance/ Direction from Site**
Local Authority Pollution Prevention and Controls	Local Authority Air Pollution Control PG1/14 Petrol filling station	~455m south
Substantiated Pollution Incident Register	Land impact: Category 2 - Significant Incident	~460m southwest
Sensitive Land Uses		
2No. recorded within 500m		
Category	**Details**	**Distance/ Direction from Site**
Nitrate Vulnerable Zones	Surface Water	On site
Area of Adopted Green Belt	-	~90m Southeast

2.8 Engineering Considerations

2.8.1 Engineering considerations identified from the Envirocheck® report for the site are summarised in Table 2.7:

Table 2.7: Engineering Considerations

Ground Stability Hazards						
Hazard	**Hazard Potential**					
	No Hazard	**Negligible**	**Very Low**	**Low**	**Moderate**	**High**
Collapsible ground				X		
Compressible ground	X					
Ground dissolution	X					
Landslide			X			
Running sand	X					
Shrink/swell clays			X			
Coal mining		X				
Non-coal mining	X					

BGS Recorded Mineral Sites			
21No. recorded within 1km			
Site Name	**Type/Commodity**	**Status**	**Distance/ Direction from Site**
Cowley Peachey Brickfield	Opencast – Common Clay and Shale (Langley Silt Member)	Ceased	~220m west ~265m west ~410m west ~510m west
Cowley Peachey Brick Works	Opencast – Common Clay and Shale (Langley Silt Member)	Ceased	~270m west ~460m west
Cowley Peachey Brick Yard	Opencast – Common Clay and Shale (Langley Silt Member)	Ceased	~330m west

Site Name	Type/Commodity	Status	Distance/ Direction from Site
Cowley Peachey Brickyard	Opencast – Common Clay and Shale (Langley Silt Member)	Ceased	~585m west
Yiewsley Brickfields	Opencast – Common Clay and Shale (Langley Silt Member)	Ceased	~595m west ~755m west ~880m west
Yiewsley Gravel Pit	Opencast – Sand and Gravel (Lynch Hill Gravel Member)	Ceased	~610m west ~780m west
Fray's River Gravel Pit	Opencast - Sand and Gravel (Lynch Hill Gravel Member)	Ceased	~595m southwest
Cowley Peachey Gravel Pit	Opencast - Sand and Gravel (Shepperton Gravel Member)	Ceased	~780m west ~910m west ~970m west
Falling Lane Gravel Pit	Opencast - Sand and Gravel (Lynch Hill Gravel Member)	Ceased	~850m southeast
Trout Villa Gravel Pit	Opencast - Sand and Gravel (Shepperton Gravel Member)	Ceased	~905m west
Pield Heath Gravel Pit	Opencast – Sand and Gravel (Langley Silt Member)	Ceased	~915m west
Cowley Pit	Opencast – Common Clay and Shale (Langley Silt Member)	Ceased	~925m north

2.9 Regulatory Consultations

2.9.1 Regulatory consultations were undertaken with the relevant departments at Hillingdon Council with respect to possible environmental issues and ground conditions on-site and in the surrounding area. A summary of the responses is provided below in Table 2.8. The full responses are presented in Appendix D.

Table 2.8: Regulatory Consultations Summary

Environmental Health/ Contaminated Land – Hillingdon Council	• The Council report the presence of 3No. historic landfills within 500m of the site. These relate to Packet Boat Nurseries ~390m WSW, Packet Boat Lane ~435m W and River Pinn (east) ~475m SSW. • Packet Boat Lane is reported to have a low to medium likelihood of gas while Packet Boat Nurseries and River Pinn (East) are reported to have a low likelihood. • It has been reported there are no records held by the Council regarding pollution incidents, Part B LAPPC Authorisations, private water supplies, storage of petroleum hydrocarbons, unexploded ordnance, problems with ground gas or naturally elevated contaminants concentrations on or within close proximity of the site.

2.10 Outline Conceptual Model

2.10.1 In accordance with the Environment Agency Land contamination: risk management guidance, potential source-pathway-receptor pollutant linkages identified from the desk study phase are summarised in the following sections.

2.11 Potential Sources

2.11.1 Potential sources of contamination identified on and within the vicinity of the site are summarised below:

On Site Sources

- Potential made ground of unknown chemical composition.
- Historic presence of filter beds associated with the nearby sewage treatment works.
- Naturally elevated background lead concentrations of between 300-600mg/kg, which are in excess of the current GAC for a residential site end use.

Off Site Sources

2.11.2 A number of potentially contaminative land uses have been identified in proximity to the site including the nearby sewage treatment works and railway.

2.12 Potential Receptor Pathways

2.12.1 Potential receptors identified as part of this preliminary risk assessment are:

- Current/future site users;
- Construction workers;
- Proposed development/ structures.

2.12.2 The underlying superficial deposits (Langley Silt Member) and Bedrock (London Clay Formation) are both anticipated to be significantly cohesive in nature and have been classified as Unproductive Strata. In addition, there are no surface waters identified in close proximity of the site. Therefore, the potential risk to controlled waters is considered to be low and are not considered to be a potential receptor. As a result, controlled waters have not been considered further within this assessment.

2.13 Potential Pathways

2.13.1 Potential contaminant pathways relating to the identified receptors and contaminants of concern include:

- Dermal contact – contact with soil, dust or water;
- Ingestion - ingestion of soil, dust or water;
- Inhalation – inhalation of soil, dust or vapours;

2.14 Hazard Assessment and Risk Estimation

2.14.1 Potential pollutant linkages identified as part of this preliminary risk assessment are summarised in the Outline Site Conceptual Model presented in Table 2.9. References to risk estimations are made in accordance with the methodology presented in CIRIA publication C552 (2001) titled *'Contaminated Land Risk Assessment: A Guide to Good Practice'* and summarised in Appendix E.

Table 2.9: Outline Conceptual Model

Potential Hazard/ Source	Potential Receptor	Potential Pathway to Receptors	Potential Consequence of Source-Receptor Linkage	Potential Likelihood for Significant Source-Receptor Linkage	Risk Classification
Made ground and potentially contaminative processes (former filter beds) – on site	Current and future site users and construction workers	Exposure to potential contaminants through ingestion, inhalation and dermal contact.	Medium	**Low Likelihood to Likely**: Given the development history recorded on site, and observations made during the site reconnaissance, the presence of made ground of unknown thickness and chemical composition, or shallow contaminants on site cannot be discounted at this stage.	**Low to Moderate Risk**
	Current and future site users, construction workers and proposed development	Migration, ingress and accumulation of ground gasses.	Severe	**Low Likelihood**: Made ground, if present, may provide a potential source of ground gas, subject to thickness and chemical composition.	**Low to Moderate Risk**
Potentially contaminative land uses – off site	Current and future site users, construction workers and proposed development.	Potential on-site contamination / ground gas migration	Severe	**Unlikely to Low Likelihood**: Potentially contaminative current and historic processes have been identified in proximity to the site, which may provide a potential source of onsite contamination. Notwithstanding this, given the anticipated cohesive nature of the underlying ground materials, the potential for significant migration of contaminants from off-site sources is considered to be low.	**Low to Moderate Risk**
Naturally elevated background lead concentrations – on site	Current and future site users and construction workers	Exposure to elevated lead concentrations through ingestion, inhalation and dermal contact.	Medium	**Low Likelihood to Likely:** BGS mapping indicates the site is situated within an area recorded to have elevated background lead concentrations of between 300-600mg/kg, which is noted to be above the GAC for a residential site end use.	**Low to Moderate Risk**

3 GROUND INVESTIGATION METHODOLOGY

3.1 Background

3.1.1 The exploratory ground investigation was undertaken in general accordance with the scope of works detailed by the London Borough of Hillingdon during the tender stage. The ground investigation was undertaken to provide information on the ground conditions to aid with the design of the development; and to investigate the potential pollutant linkages identified as part of the Preliminary Risk Assessment.

3.1.2 All site works were undertaken in accordance with BS5930:2015+A1:2020, BS10175+A2:2017 and, where appropriate, Eurocode 7. Works were supervised by a suitably experienced geoenvironmental consultant from TEC.

3.2 Methodology

3.2.1 A summary of the ground investigation works undertaken and the rationale for each location is provided in in Table 3.1, as follows:

Table 3.1: Summary of Ground Investigation Works

Investigation Method	Location	Date(s)	Location Rationale	Purpose
Window Sample Borehole (Dando Terrier)	WS01 – WS09	25.06.2021	Positioned within the approximate locations requested by London Borough of Hillingdon Council	Characterisation and description of the underlying ground materials Collection of geochemical and geotechnical samples for analysis.

3.2.2 Exploratory hole locations are presented on Figure 2. A detailed description of encountered ground conditions are shown on exploratory hole logs presented in Appendix F.

3.3 Field Testing

3.3.1 A summary of in situ field testing undertaken as part of these ground investigation works is provided in Table 3.2

Table 3.2: Summary of Field Testing

Field Test	Purpose
Standard Penetration Test (SPT)	Provision of strength profile of underlying ground conditions Provision of in situ densities of granular deposits

3.4 Chemical Testing

3.4.1 Laboratory testing was scheduled on the basis of the Preliminary Risk Assessment and field observations.

3.4.2 Representative soil and groundwater samples were collected and chemically tested at i2 Analytical Ltd, a UKAS/MCERTS accredited laboratory, for a selection of the following parameters:

Soils (Totals and Leachate)

- *Heavy metals and metalloids;*
- *Total Organic Carbon (TOC);*

- *Phenols (monohydric);*
- *Total Cyanide;*
- *Sulphate, sulphide, elemental sulphur and pH;*
- *Speciated Polyaromatic Hydrocarbons (PAH);*
- *Total Petroleum Hydrocarbons (TPH-CWG), including BTEX and MTBE; and*
- *Asbestos Screen.*

3.4.3 Geochemical certificates of analysis are presented Appendix G.

3.5 General Sampling

3.5.1 Samples were collected in accordance with the following guidance;

- BS5930:2015+A1:2020 – Code of practice for ground investigations;
- BS-EN 1997-2:2007 - Eurocode 7 — Geotechnical design —Part 2: Ground investigation and testing
- BS ISO 10175:2011+A2:2017 - Investigation of potentially contaminated sites – Code of practice;
- BS ISO 18400-105 Soil quality – Sampling - Packaging, transport, storage and preservation of samples; and
- BS ISO 18400-106 Soil quality – Sampling - Quality control and quality assurance.

4 GROUND INVESTIGATION FINDINGS

4.1 Introduction

4.1.1 A summary of encountered ground conditions for the site is provided below.

4.1.2 Detailed descriptions of encountered ground conditions are shown on exploratory hole logs presented in Appendix F. Photographs of the materials encountered are presented within Appendix A.

Made Ground

4.1.3 Made ground was recorded across the site to the base of the excavations and was generally observed to comprise slightly sandy, gravelly clayey silt with occasional rootlets. The gravel component was observed to comprise chert, brick, concrete, mudstone and clinker.

Natural Ground

4.1.4 Due to refusal on suspected concrete within the made ground across the site, the natural ground was not encountered to depths in excess of 1.6mbgl.

4.2 Groundwater

4.2.1 No groundwater was encountered during the intrusive investigation.

4.2.2 It should be noted that groundwater conditions recorded during the investigation may not be representative of long-term conditions and that groundwater levels may vary in response to meteorological/ seasonal changes.

4.3 Contamination Observations

4.3.1 No visual or olfactory evidence of contamination was observed during the ground investigation.

5 LAND CONTAMINATION - GENERIC QUANTITATIVE RISK ASSESSMENT

5.1.1 The generic quantitative risk assessment comprises a screening of identified contaminants against generic assessment criteria (GAC) that are appropriate to the site setting and the receptors concerned.

5.2 Human Health

Methodology

5.2.1 Detailed information on the background legislation and selection of the GAC used within this assessment for human health is presented in Appendix H.

5.2.2 It is understood the site is to be used by a Scout company and therefore, a conservative approach has been used within in this generic assessment and defined as "*residential with homegrown produce*" based on the proposed development and in accordance with current guidance.

5.2.3 As the site investigation methodology involved targeted sampling, statistical analysis has not been undertaken and the results have been directly compared to the GAC.

Summary of Results

5.2.4 The full human health generic quantitative risk assessment is presented in Appendix H.

Made Ground

5.2.5 The results of the assessment recorded exceedances of the GAC and therefore the following contaminants of potential concern (CoPC) have been identified within the made ground:

- *PAHs – benzo(a)pyrene, benzo(b)fluoranthene and dibenz(a,h)anthracene; and*
- *Heavy metals – lead and beryllium.*

5.2.6 An asbestos screen completed on samples of the made ground at the laboratory recorded no suspected asbestos containing material or detectable asbestos fibres.

5.3 Ground Gas

5.3.1 In accordance with BS8485:2019 and CL:AIRE RB17, an assessment of the risk posed by ground gases at the site has been undertaken based on the findings of the desk study and ground investigation and the conceptual side model. The following site-specific information has been considered as part of the assessment;

- No landfills, areas of potentially significant infilled ground or mine openings/ workings have been identified within proximity to the site;
- Made ground was recorded to depths of >1.6mbgl across the site. Notwithstanding this, the material encountered typically comprised general infill, with no significant organic content observed. Given the composition and limited thickness, the made ground is not considered a potential source of significant ground gas generation;
- The natural soils are recorded by the BGS to comprise the Langley Silt Member and London Clay Formation of typically low organic content;
- The site is not located within a radon affected area.

5.3.2 No credible source or pathway for ground gas has been identified at the site as part of these works. Therefore, no further ground gas monitoring or assessment is considered to be required and no specific ground gas protection measures are considered necessary for the proposed development.

5.4 Updated Conceptual Model

5.4.1 The findings of the site investigation and the GQRA have been used to update the conceptual model and confirm the relevant pollutant linkages associated with the proposed development.

Identified Sources

5.4.2 Sources of contamination/ ground gas identified on and within the vicinity of the site are summarised below:

On Site Source

- Made ground;
- Historic presence of filter beds associated with the nearby sewage treatment works.
- Naturally elevated background lead concentrations of between 300-600mg/kg, which are in excess of the current GAC for a residential site end use.

Off Site Sources

5.4.3 A number of potentially contaminative land uses have been identified in proximity to the site including the nearby sewage treatment works and railway.

Identified Receptors

5.4.4 Receptors identified as part of this updated conceptual model are:

- Current/future site users;
- Construction workers;
- Proposed development/ structures.

Identified Pathways

5.4.5 Potential contaminant pathways relating to the identified receptors and contaminants of concern include:

- Dermal contact – contact with soil, dust or water;
- Ingestion - ingestion of soil, dust or water;
- Inhalation – inhalation of soil, dust or vapours.

5.4.6 The updated conceptual model is presented in Table 5.1. References to risk estimations are made in accordance with the methodology presented in CIRIA publication C552 (2001) titled *'Contaminated Land Risk Assessment: A Guide to Good Practice'* and summarised in Appendix E.

Table 5.1: Updated Conceptual Model (Hazard Assessment and Risk Estimation)

Identified Hazard/ Source	Identified Receptor	Potential Pathway	Potential Consequence of Source-Pathway-Receptor Pollutant Linkage	Potential Likelihood for Source-Pathway-Receptor Pollutant Linkage	Risk Classification
Made ground and potentially contaminative processes (former filter beds) – on site	Current and future site users and construction workers	Exposure to potential contaminants through ingestion, inhalation and dermal contact.	Medium	**Likely**: Made ground was encountered across the site to depths in excess of 1.6mbgl. Laboratory analysis of representative materials recorded exceedances of the GAC for a number of PAH's and heavy metals.	**Moderate Risk**
	Current and future site users, construction workers and proposed development	Migration, ingress and accumulation of ground gasses.	Severe	**Unlikely**: The encountered made ground is considered unlikely to be a potential source of significant ground gas based on its limited thickness and observed composition (with no visual evidence of degradable/ putrescible materials noted).	**Low Risk**
Potentially contaminative land uses – off site	Current and future site users, construction workers and proposed development.	Migration, ingress and accumulation of ground gasses.	Severe	**Unlikely:** Potentially contaminative current and historic land uses have been identified in proximity to the development site. Notwithstanding this, laboratory test results, field test data and visual/ olfactory observations during the intrusive investigation suggest no potential on-site contaminant migration.	**Low Risk**
Naturally elevated background lead concentrations – on site	Current and future site users and construction workers	Exposure to elevated lead concentrations through ingestion, inhalation and dermal contact.	Medium	**Likely:** Laboratory analysis of encountered ground materials recorded concentrations of lead in excess of the current GAC.	**Moderate Risk**

6 LAND CONTAMINATION - CONCLUSIONS AND RECOMMENDATIONS

6.1 Introduction

6.1.1 No visual or olfactory evidence of significant contamination was noted during the ground investigation.

6.1.2 Notwithstanding this, laboratory analytical results of the encountered made ground reported exceedances of the GAC for a number of PAH's, beryllium and lead.

6.1.3 No radon protective measures are considered necessary within the construction of new homes.

6.2 Remedial Appraisal

6.2.1 Contaminants of potential concern (CoPC) have been recorded within the encountered made ground materials when considering a conservative residential site end use.

6.2.2 Therefore, where soft landscaping is proposed in such areas and where made ground remains after finished site levels have been achieved, localised exposure to potential contaminants cannot be discounted and a suitable cover system may be required within areas of soft landscaping.

6.3 General Considerations

6.3.1 Given the presence of general made ground, good brownfield site working practices should be adopted by construction workers to mitigate against potential risks.

6.3.2 Should water supply pipes be placed within the made ground encountered at the site, due consideration would need to be given to the UK Water Industry Research Ltd (UKWIR) guidance.

6.3.3 Based on our conceptual understanding of the site to-date, it would be anticipated that similar ground conditions to those encountered as part of this assessment exist across the site areas where access has been possible. However, should significant thicknesses of made ground be encountered, or visual or olfactory evidence of potentially significant contamination be identified during the development works, further investigation and assessment may be required.

7 GROUND ENGINEERING

7.1 Proposed Development

7.1.1 The site currently comprises a rectangular parcel of land with a single structure currently utilised as a Scout hut.

7.1.2 It is understood that the proposed development is to comprise the demolition of the existing hall structure to allow for the construction of a single storey structure to accommodate a new scout centre.

7.2 Foundations

7.2.1 Exploratory hole locations advanced to date have terminated prematurely within the underlying made ground at depths of between 1.0mbgl and 1.6mbgl on assumed concrete. As a result, it has not been possible to provide recommendations with regards to proposed foundations at this stage and further investigation is recommended to determine the most appropriate founding solution for the proposed development.

7.3 Ground Floor Slabs

7.3.1 Given the thickness of the encountered made ground across the development area, the use of suspended floor slabs may be appropriate for the scheme, which should incorporate the minimum void dimensions as outlined in the NHBC Standards.

7.4 Excavations

7.4.1 Excavations at the site for conventional foundations may be achievable using conventional equipment, although it is anticipated that breakers may be required at relatively shallow depth where concrete is encountered within the made ground.

7.4.2 No groundwater was encountered during the intrusive works undertaken to date. Based on observations made during the ground investigations, groundwater ingress into excavations is considered unlikely to be significantly problematic although some dewatering may be required, particularly where excavations are left open for any length of time. It would be recommended that formation levels are protected to mitigate against softening associated with any such water ingress.

7.4.3 It should be noted that groundwater levels might fluctuate according to the season and from year to year. This may have implications on recommendations, including those for foundations and excavations. Accordingly, a careful watch should be maintained during any future groundworks and the recommendations presented in this report may be subject to amendment should additional information becoming available.

7.4.4 It is recommended that appropriate shoring/temporary works are used in accordance with current Health and Safety requirements where access for personnel is required into excavations.

7.5 Protection of Buried Concrete

7.5.1 Water soluble sulphate and pH testing was undertaken on representative samples of the made ground. The results of the testing, together with the resulting Aggressive Chemical Environment for Concrete (ACEC) Class and Design Sulphate (DS) Class, as derived in accordance with BRE Special Digest 1, are presented in Table 7.1. The full laboratory results are presented in Appendix G.

Table 7.1: Summary of ACEC

Stratum	No. of tests	pH	Water Soluble Sulphate (mg/l)	Oxidisable Sulphides (%)	Total Potential Sulphates (%)	ACEC	DS
Made Ground	3	8.6 – 8.9	<10	-	-	AC-1	DS-1

7.5.2 Further testing will be required within the natural ground materials. The published geological mapping indicates the site is underlain by the London Clay Formation, which typically contains pyrite. Pyrite when oxidised can result in elevated sulphate concentrations, which may have detrimental impact on proposed foundations.

8 RECOMMENDED FURTHER WORKS

8.1.1 Further ground investigation is recommended to determine the depth to natural ground materials, characterise the underlying made ground and provide the required parameters to assist with geotechnical foundation design for the proposed development.

TEC

Figures and Drawings

Approximate Site Location:

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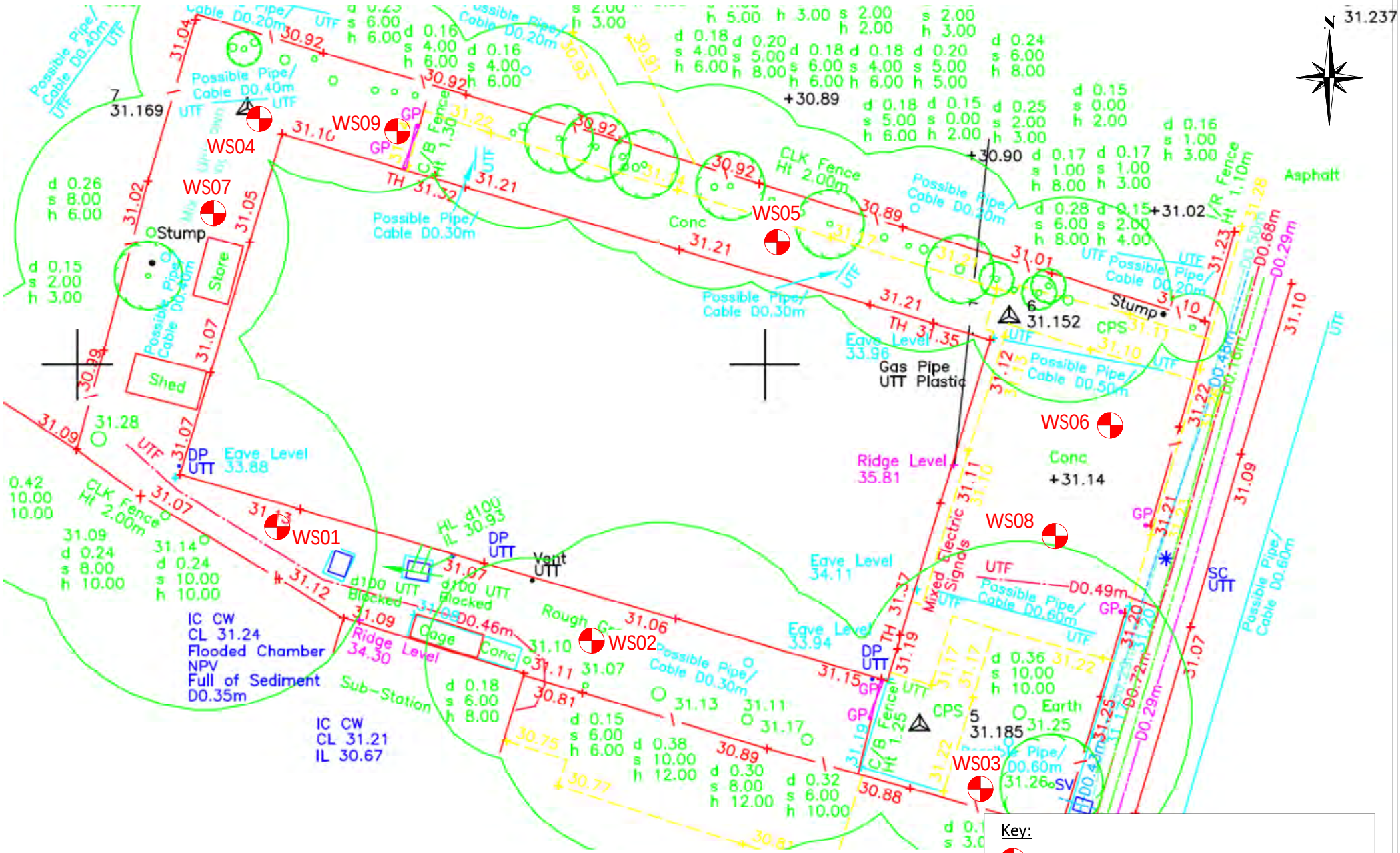
Extract of Client Drawing "Existing Site Plan" Dated November 2020

TEC
The Old Chapel
35a Southover
Wells, Somerset
BA5 1UH

Tel: 01749 677760
Email: info@tecon.co.uk
Web: www.tecon.co.uk

Site Name:	Drawing Name:	Client Name:	Project No:	Figure No:	Date:	Scale:
Endeavour Sea Scout Group, Cowley	Site Location Plan	London Borough of Hillingdon Council	2105014.001	1	July 2021	NTS



Extract of Client Drawing L10397-1-ENDEAVOUR, Dated May 2021

tec	TEC The Old Chapel 35a Southover Wells, Somerset BA5 1UH	Tel: 01749 677760 Email: info@tecon.co.uk Web: www.tecon.co.uk	Site Name: Endeavour Sea Scout Group, Cowley	Drawing Name: Exploratory Hole Location Plan	Client Name: London Borough of Hillingdon Council	Project No: 2105014.001	Figure No: 2	Date: July 2021	Scale: NTS

Appendix A

Site Photographs

Endeavour Sea Scout Group, Cowley

Photograph 1: Entrance to Endeavour Sea Scout Group site, looking west.

Photograph 2: Northern section of site, looking east.

Photograph 3: Propane storage tanks within southern section of site.

Photograph 4: Encountered ground conditions. WS01 0.0 – 1.0mbgl.

Photograph 5: Encountered ground conditions. WS03 0.0 – 1.6mbgl.

Photograph 6: Encountered ground conditions. WS04 0.0 – 1.3mbgl.

Photograph 7: Encountered ground conditions. WS05 0.0 – 1.0mbgl.

Photograph 8: Concrete encountered within base of WS05, 0.9 – 1.0mbgl.

Appendix B

Historical Maps

Historical Mapping Legends

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

Quarry
Gravel Pit
Sand Pit
Clay Pit
Shingle
Refuse Heap
Sloping Masonry
Flat Rock
Marsh
Reeds
Osiers
Rough Pasture
Furze
Wood
Mixed Wood
Brushwood
Orchard
Fir
Ford
Stepping Stones
Ferry
Waterfall
Lock

Trig. Station
507 Altitude at Trig. Station
B.M.325·9 Bench Mark
342 Surface Level
Arrow denotes flow of water
Antiquities (site of)

Cutting
Embankment
Railway crossing Road
Level Crossing
Road crossing Railway
Railway crossing River or Canal
Road over single stream
Road over River or Canal

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

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

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

Inactive Quarry, Chalk Pit or Clay Pit
Active Quarry, Chalk Pit or Clay Pit
Rock
Boulders
Cliff
Slopes
Top
Roofed Building
Glazed Roof Building
Sloping Masonry
Archway
Non-Coniferous Tree (surveyed)
Coniferous Tree (surveyed)
Non-Coniferous Trees (not surveyed)
Coniferous Trees (not surveyed)
Orchard Tree
Scrub
Bracken
Coppice, Osier
Reeds
Marsh, Saltings
Rough Grassland
Heath
Culvert
Direction of water flow
Bench Mark
Antiquity (site of)
Cave Entrance
Triangulation Station
Electricity Pylon
Electricity Transmission Line

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

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

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

Cliff
Slopes
Top
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Positioned Boulder
Scree
Non-Coniferous Tree (surveyed)
Coniferous Tree (surveyed)
Non-Coniferous Trees (not surveyed)
Coniferous Trees (not surveyed)
Orchard Tree
Scrub
Bracken
Coppice, Osier
Reeds
Marsh, Saltings
Rough Grassland
Heath
Culvert
Direction of water flow
Triangulation Station
Antiquity (site of)
Electricity Transmission Line
Electricity Pylon
BM 231.60m Bench Mark
Buildings with Building Seed
Roofed Building
Glazed Roof Building

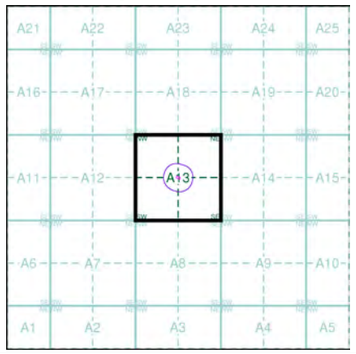
Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

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

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Middlesex	1:2,500	1865 - 1892	2
Buckinghamshire	1:2,500	1880	3
Middlesex	1:2,500	1895 - 1896	4
Buckinghamshire	1:2,500	1899	5
Middlesex	1:2,500	1914	6
Buckinghamshire	1:2,500	1932	7
Middlesex	1:2,500	1934 - 1935	8
Ordnance Survey Plan	1:1,250	1963 - 1965	9
Additional SIMs	1:1,250	1963 - 1987	10
Ordnance Survey Plan	1:2,500	1966 - 1972	11
Ordnance Survey Plan	1:1,250	1971 - 1975	12
Supply of Unpublished Survey Information	1:1,250	1975	13
Additional SIMs	1:1,250	1983 - 1989	14
Additional SIMs	1:1,250	1990	15
Ordnance Survey Plan	1:1,250	1991	16
Large-Scale National Grid Data	1:1,250	1992	17
Large-Scale National Grid Data	1:1,250	1993	18
Large-Scale National Grid Data	1:1,250	1996	19
Large-Scale National Grid Data	1:1,250	1996	20
Historical Aerial Photography	1:2,500	1999	21

Historical Map - Segment A13



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Order Details

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Site Area (Ha): 0.05
Search Buffer (m): 100

Site Details

Endeavour Sea Scout Group, Moorfield Road, Cowley, UXBRIDGE, UB8 3SJ

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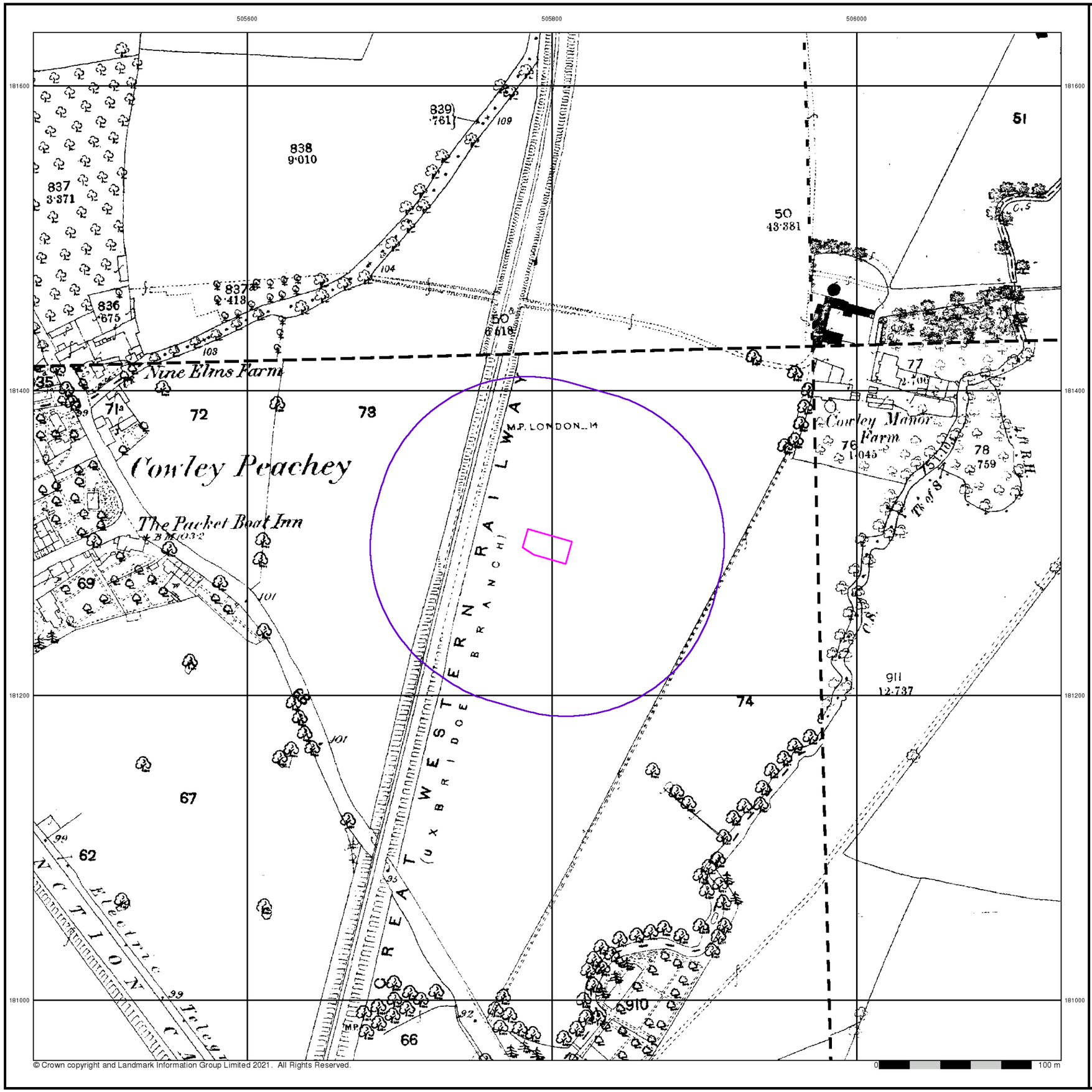

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Middlesex

Published 1865 - 1892

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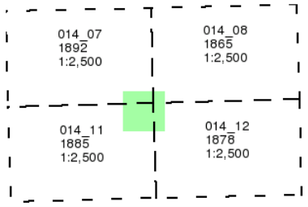

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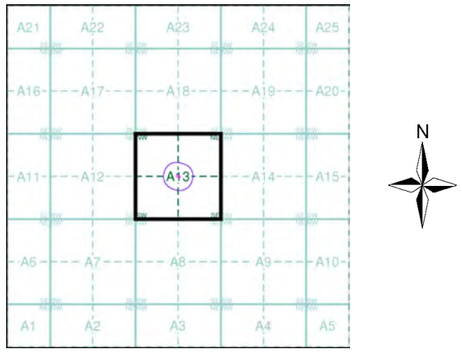

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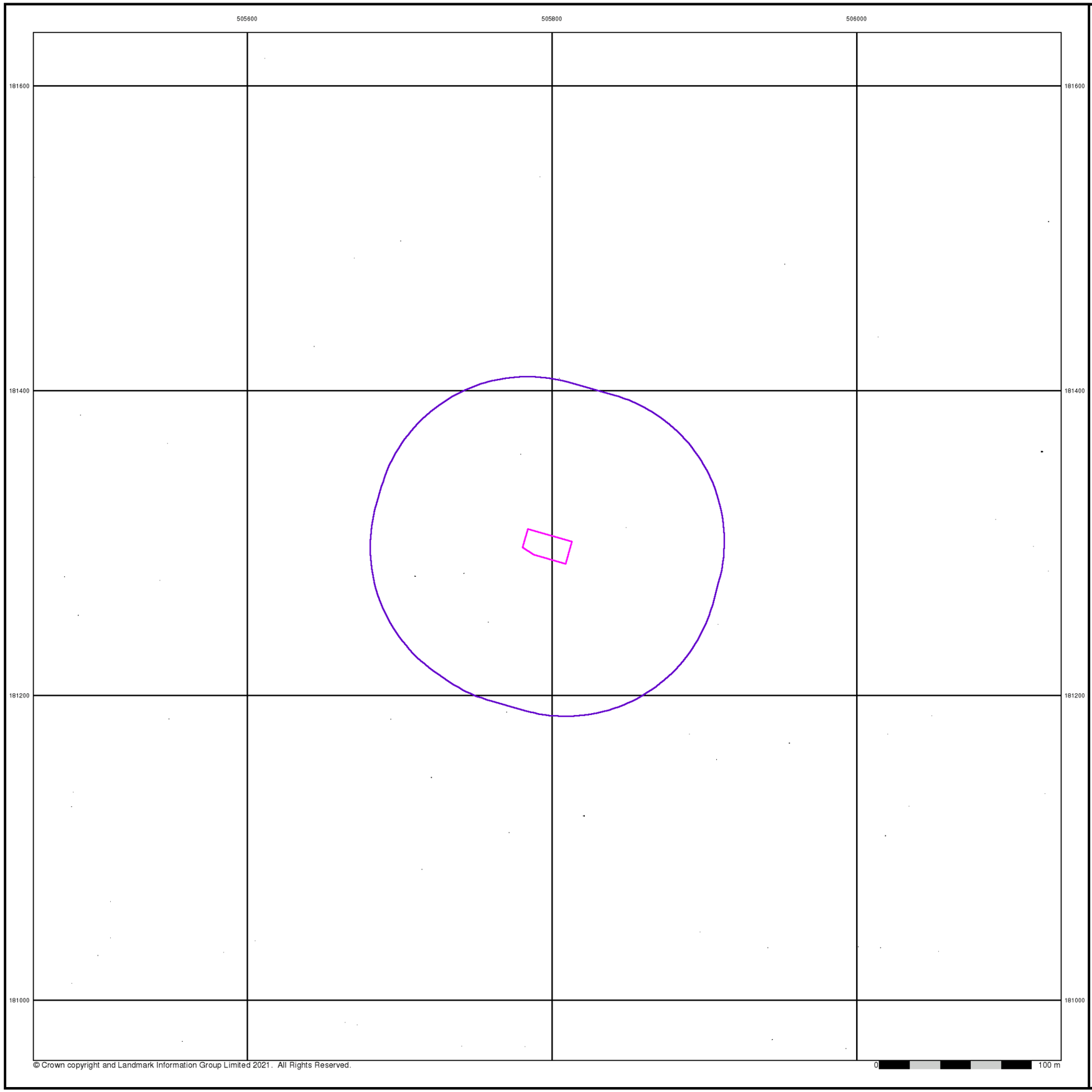

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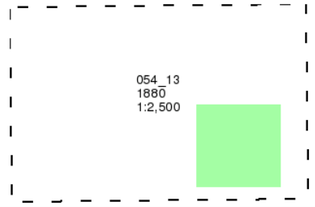

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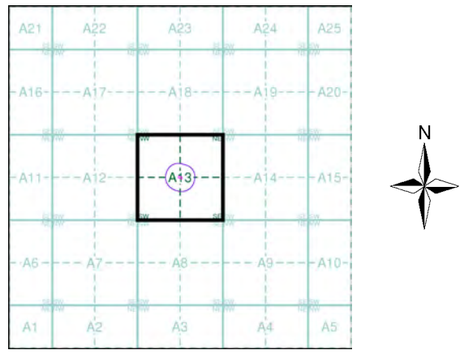

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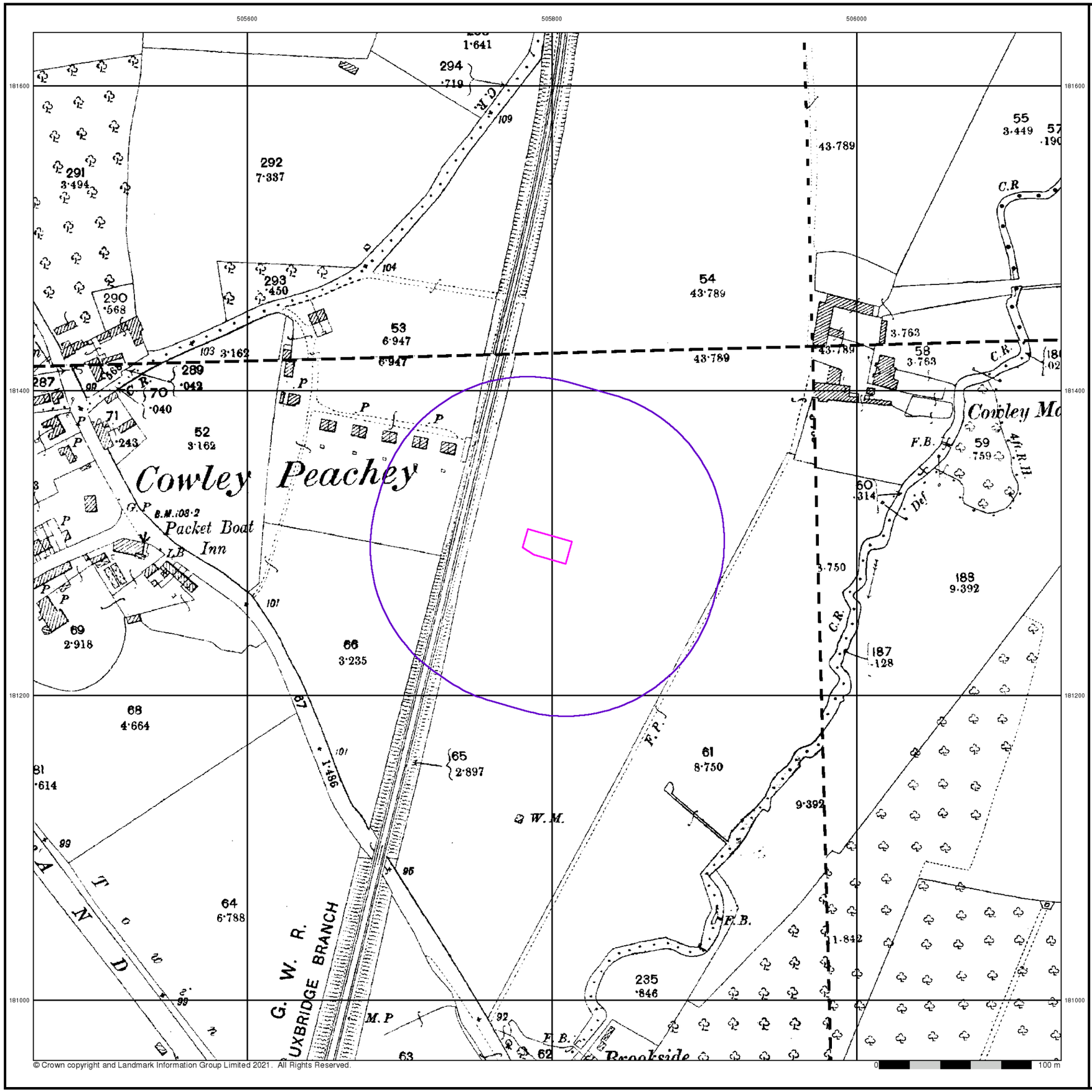

Middlesex

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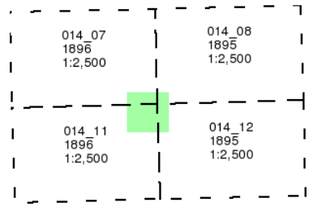

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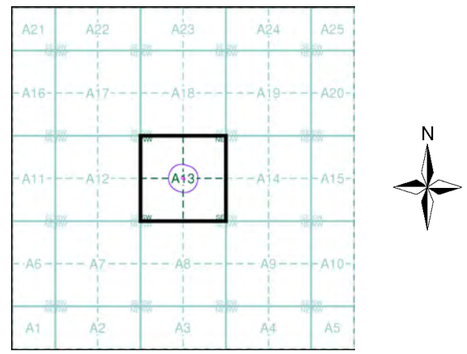

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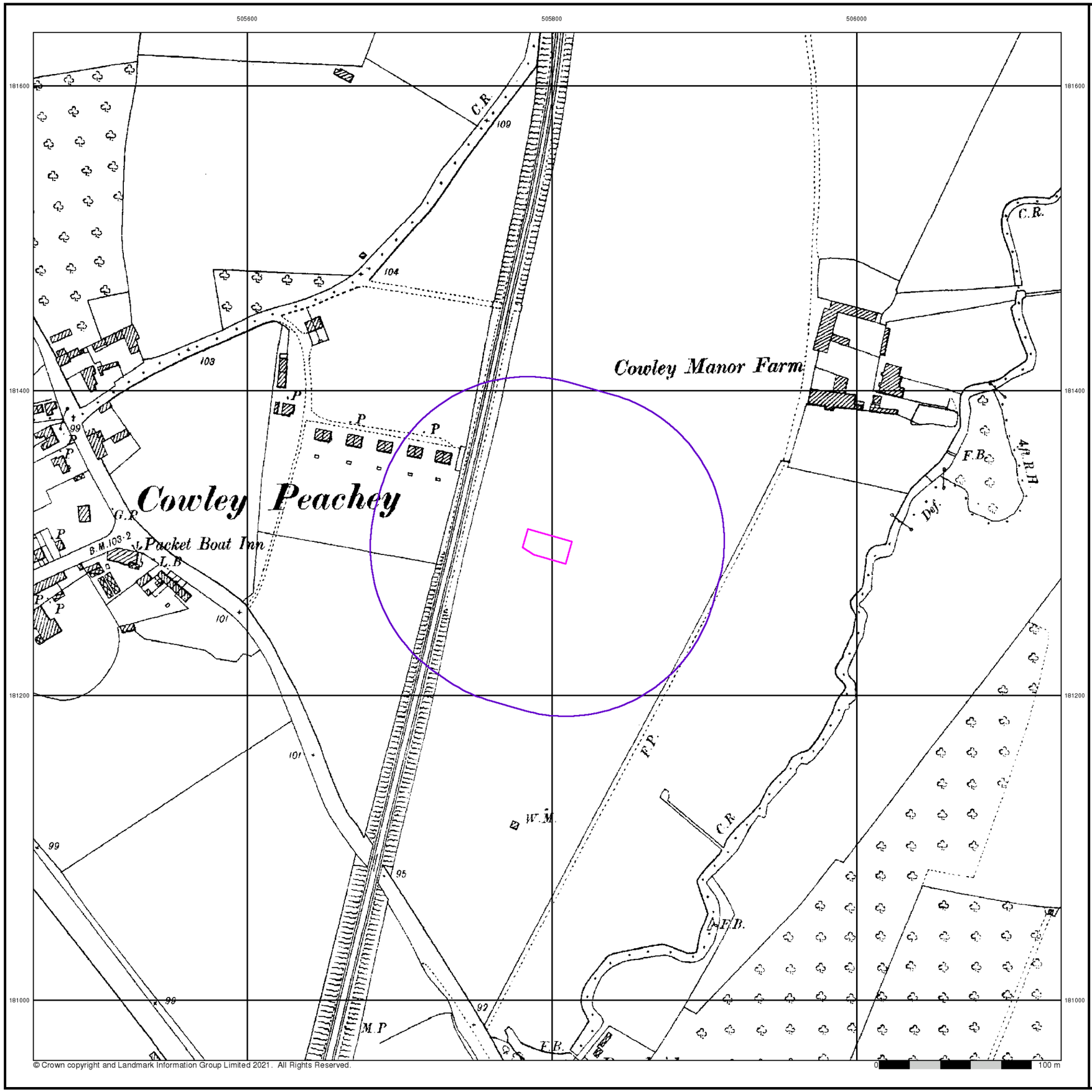

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Buckinghamshire

Published 1899

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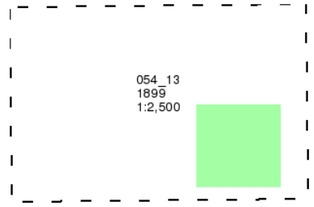

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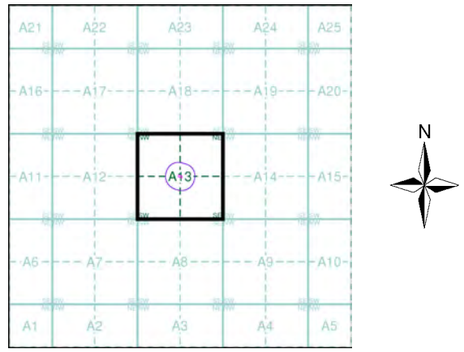

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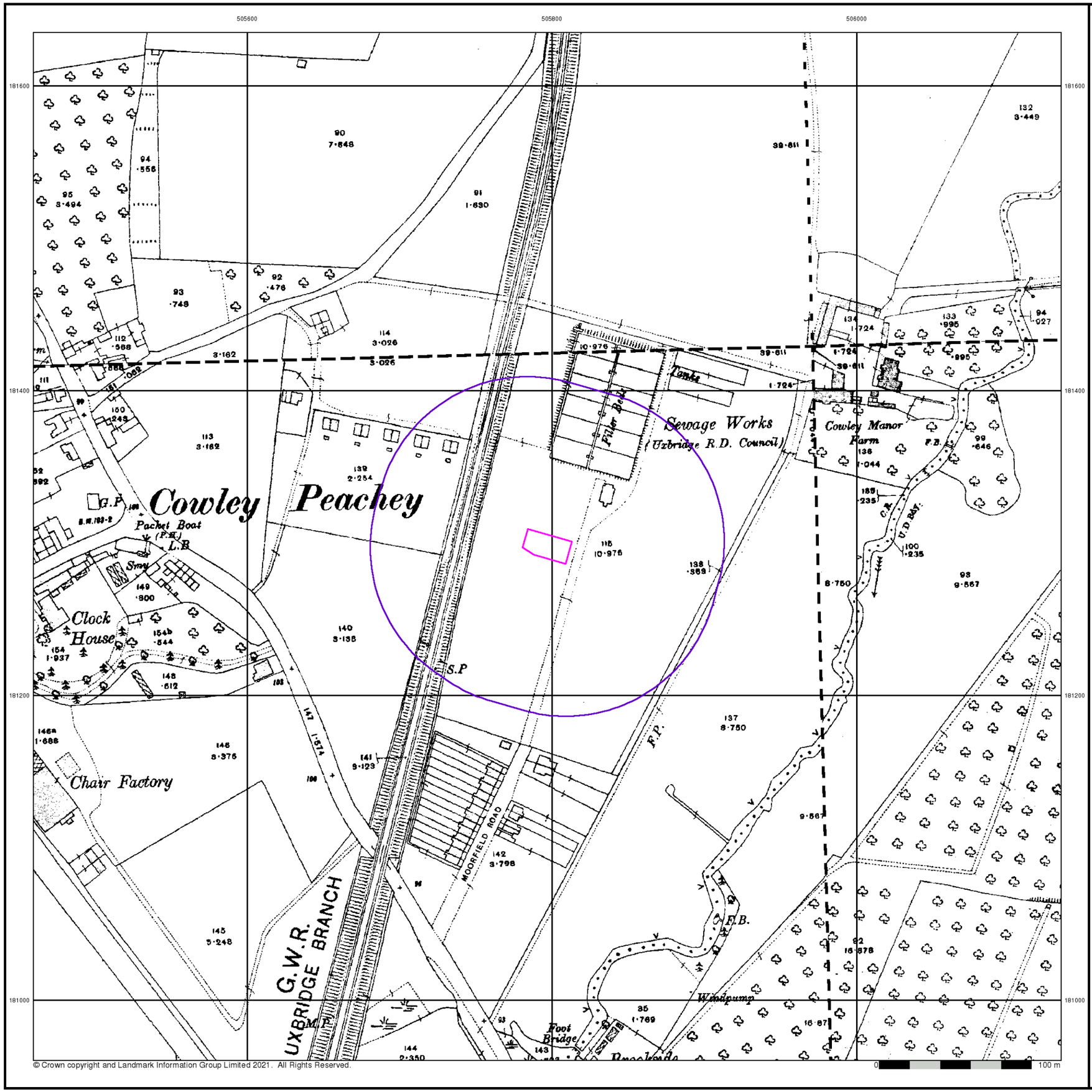

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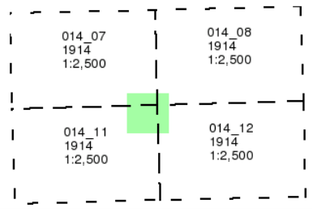
Middlesex

Published 1914

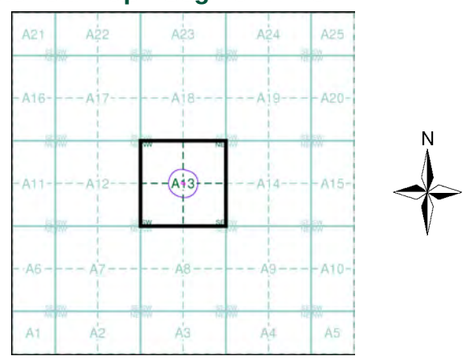
Source map scale - 1:2,500

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:	280400942_1_1
Customer Ref:	2105014.001
National Grid Reference:	505800, 181300
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	100

Site Details

Endeavour Sea Scout Group, Moorfield Road, Cowley, UXBRIDGE, UB8 3SJ

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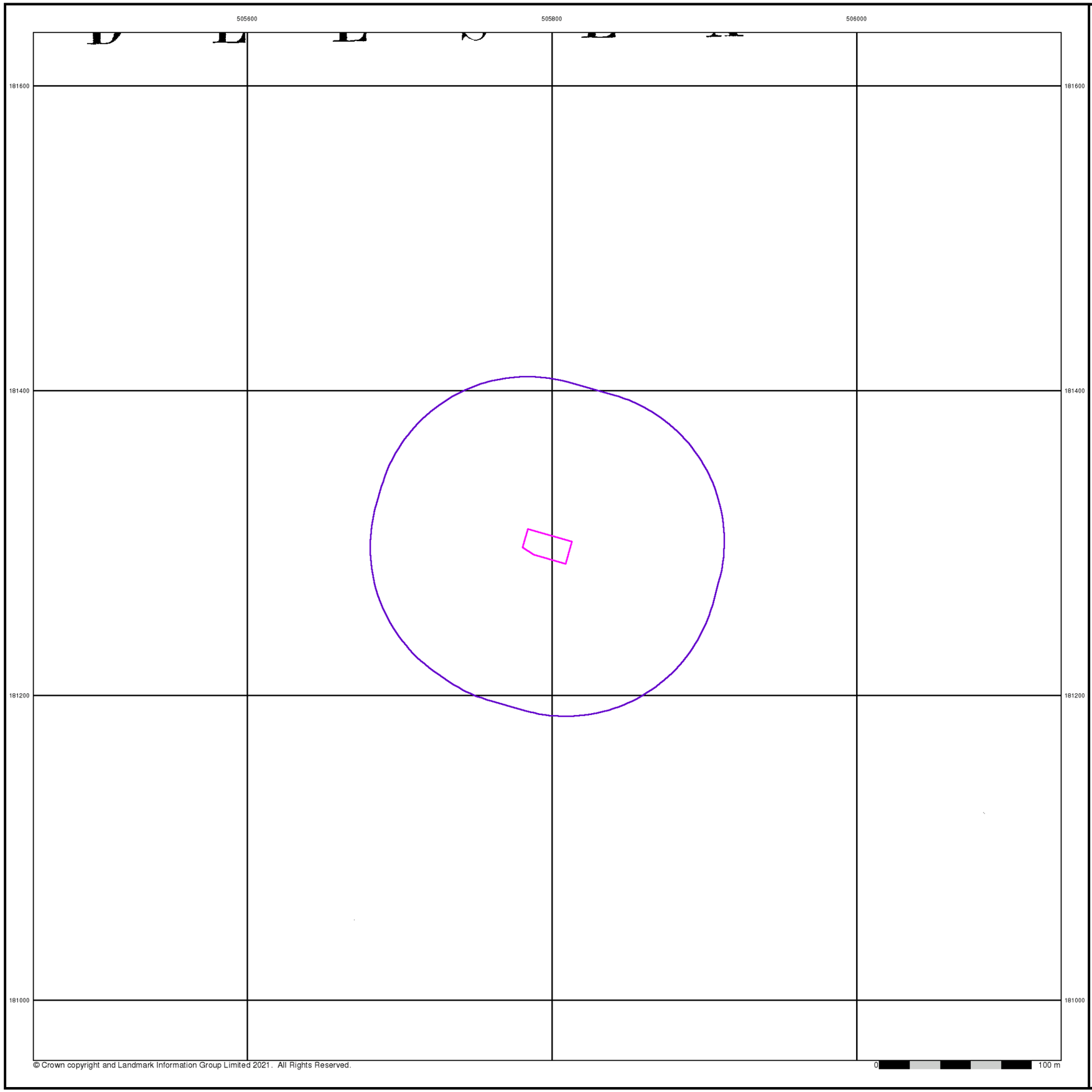

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0 100 m

Buckinghamshire

Published 1932

Source map scale - 1:2,500

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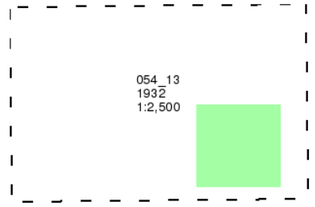
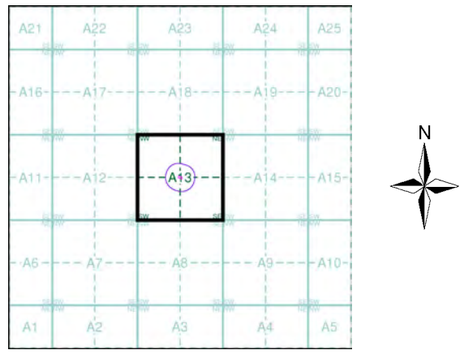
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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Site Area (Ha):	0.05
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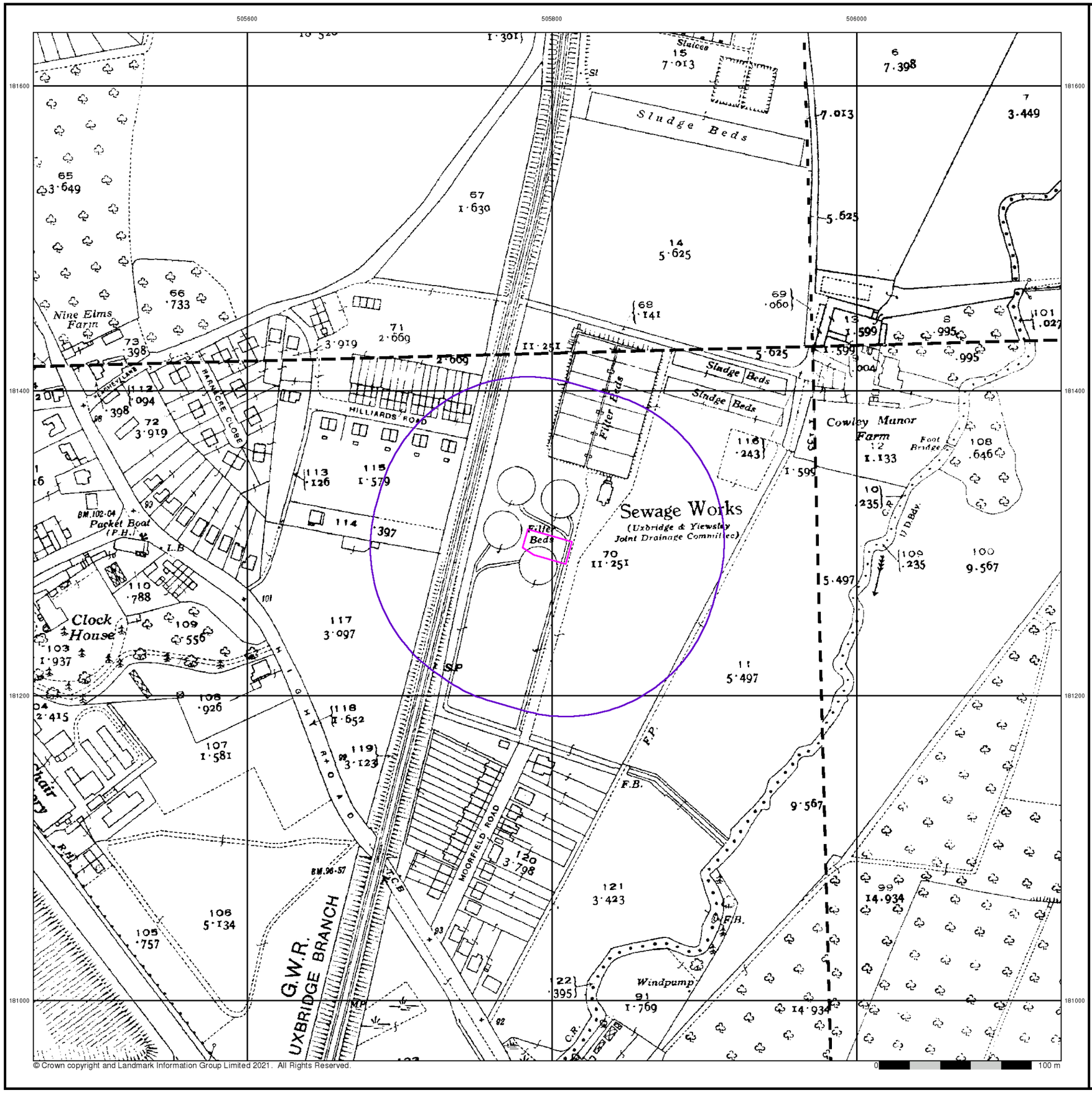

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Middlesex

Published 1934 - 1935

Source map scale - 1:2,500

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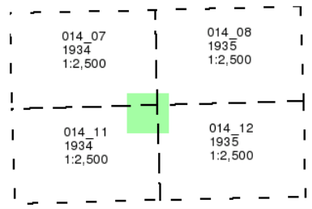
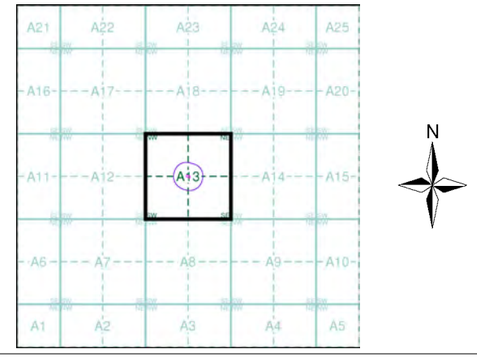
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	280400942_1_1
Customer Ref:	2105014.001
National Grid Reference:	505800, 181300
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Site Area (Ha):	0.05
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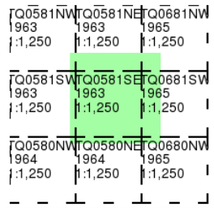
Ordnance Survey Plan

Published 1963 - 1965

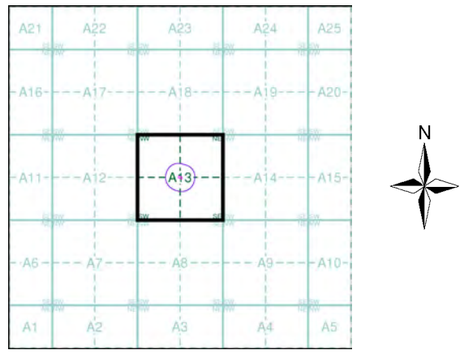
Source map scale - 1:1,250

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)



Historical Map - Segment A13



Order Details

Order Number:	280400942_1_1
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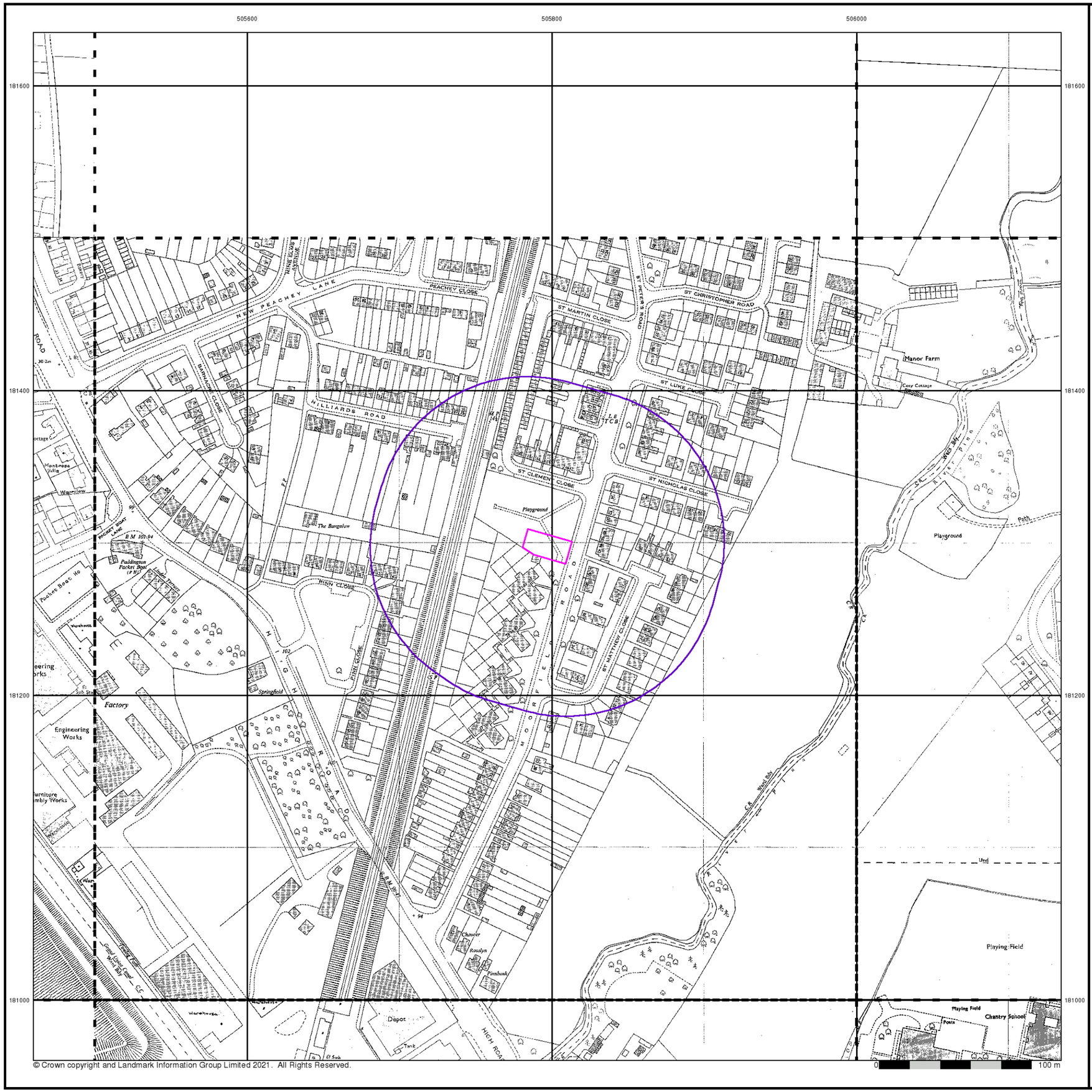

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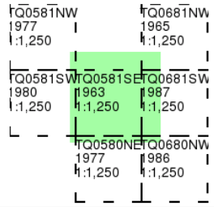
Additional SIMs

Published 1963 - 1987

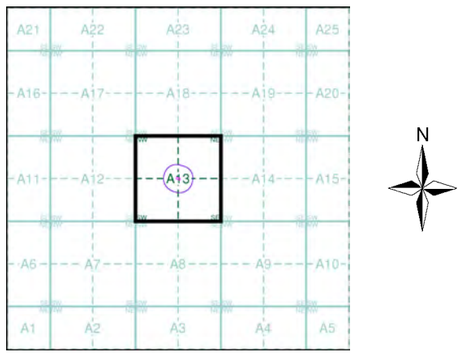
Source map scale - 1:1,250

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:	280400942_1_1
Customer Ref:	2105014.001
National Grid Reference:	505800, 181300
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	100

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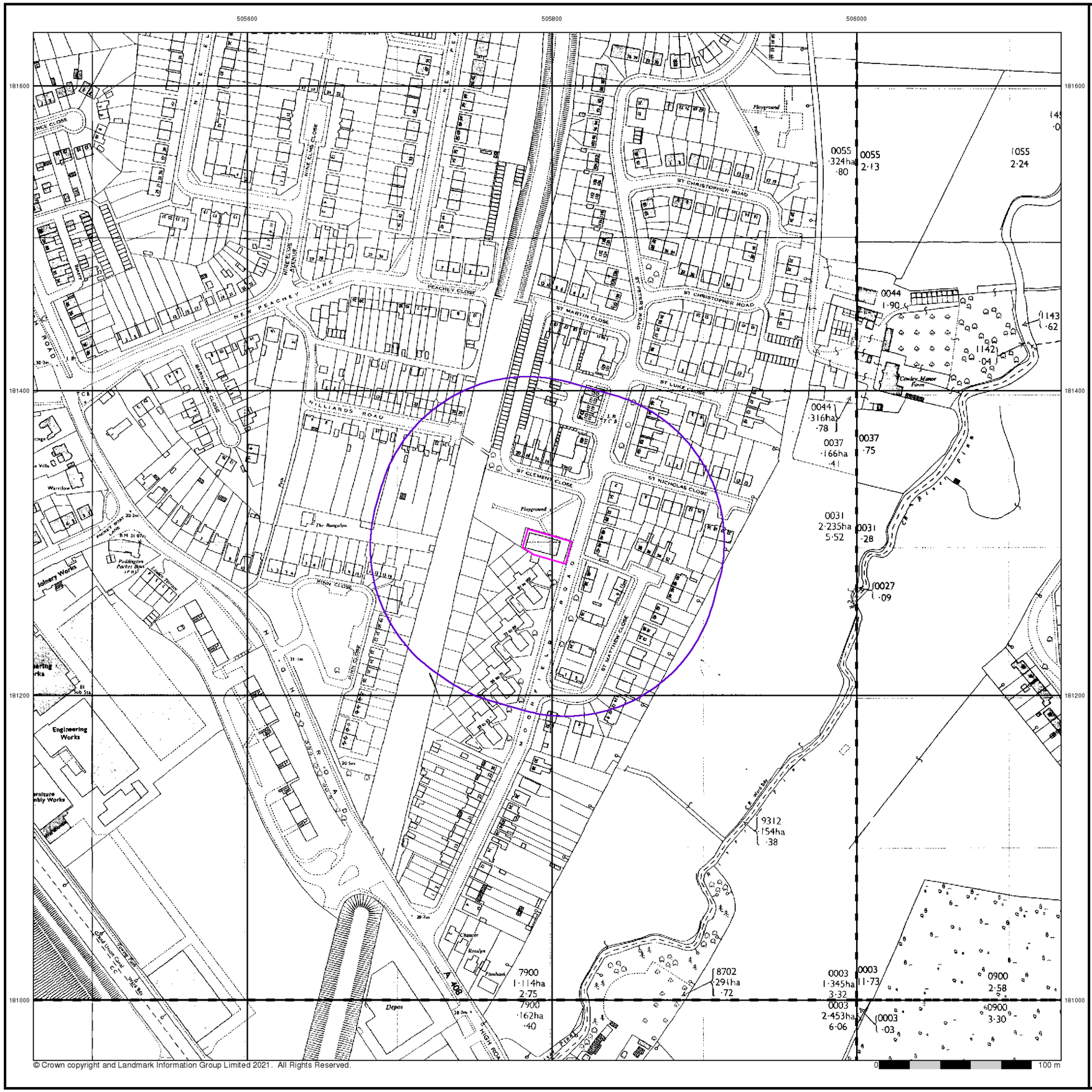

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Ordnance Survey Plan

Published 1966 - 1972

Source map scale - 1:2,500

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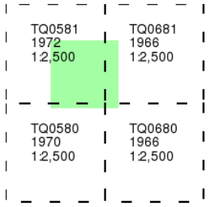
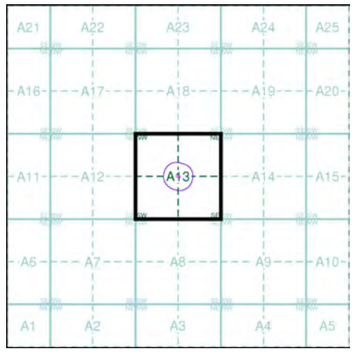
Map Name(s) and Date(s)



Historical Map - Segment A13



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Order Details

Order Number:	280400942_1_1
Customer Ref:	2105014.001
National Grid Reference:	505800, 181300
Slice:	A
Site Area (Ha):	0.05
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Site Details

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0 100 m

Ordnance Survey Plan

Published 1971 - 1975

Source map scale - 1:1,250

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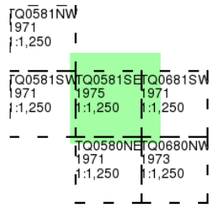
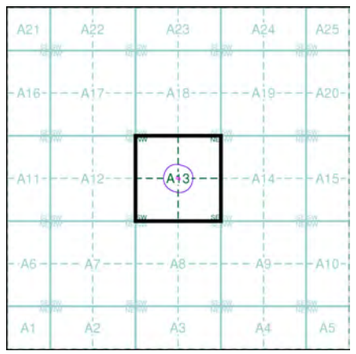
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	280400942_1_1
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National Grid Reference:	505800, 181300
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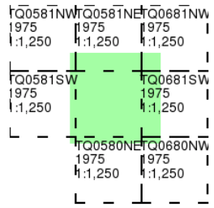
Supply of Unpublished Survey Information

Published 1975

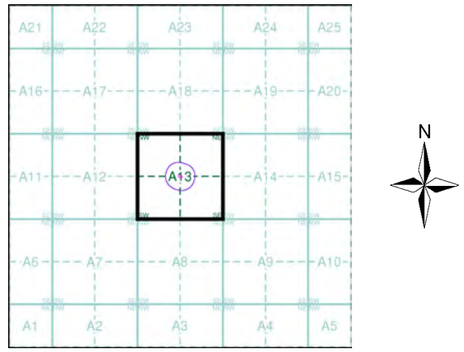
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They 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:	280400942_1_1
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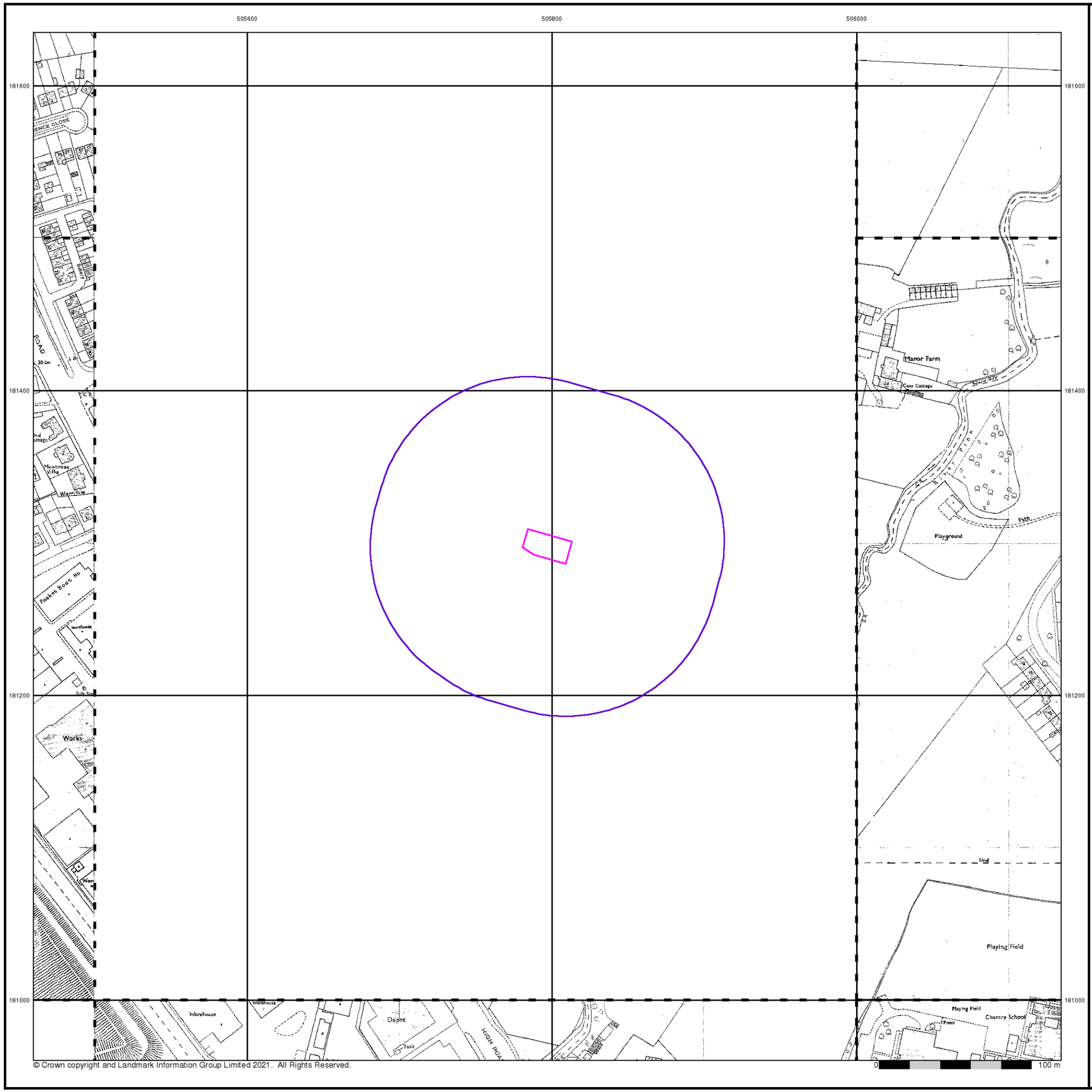

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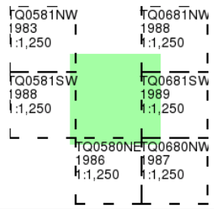
Additional SIMs

Published 1983 - 1989

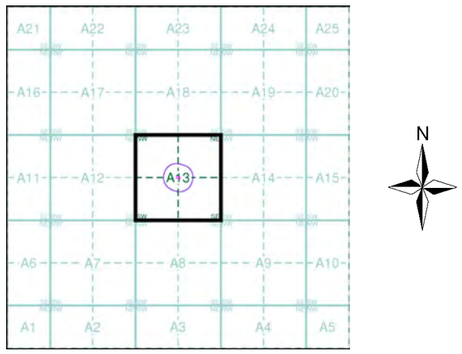
Source map scale - 1:1,250

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:	280400942_1_1
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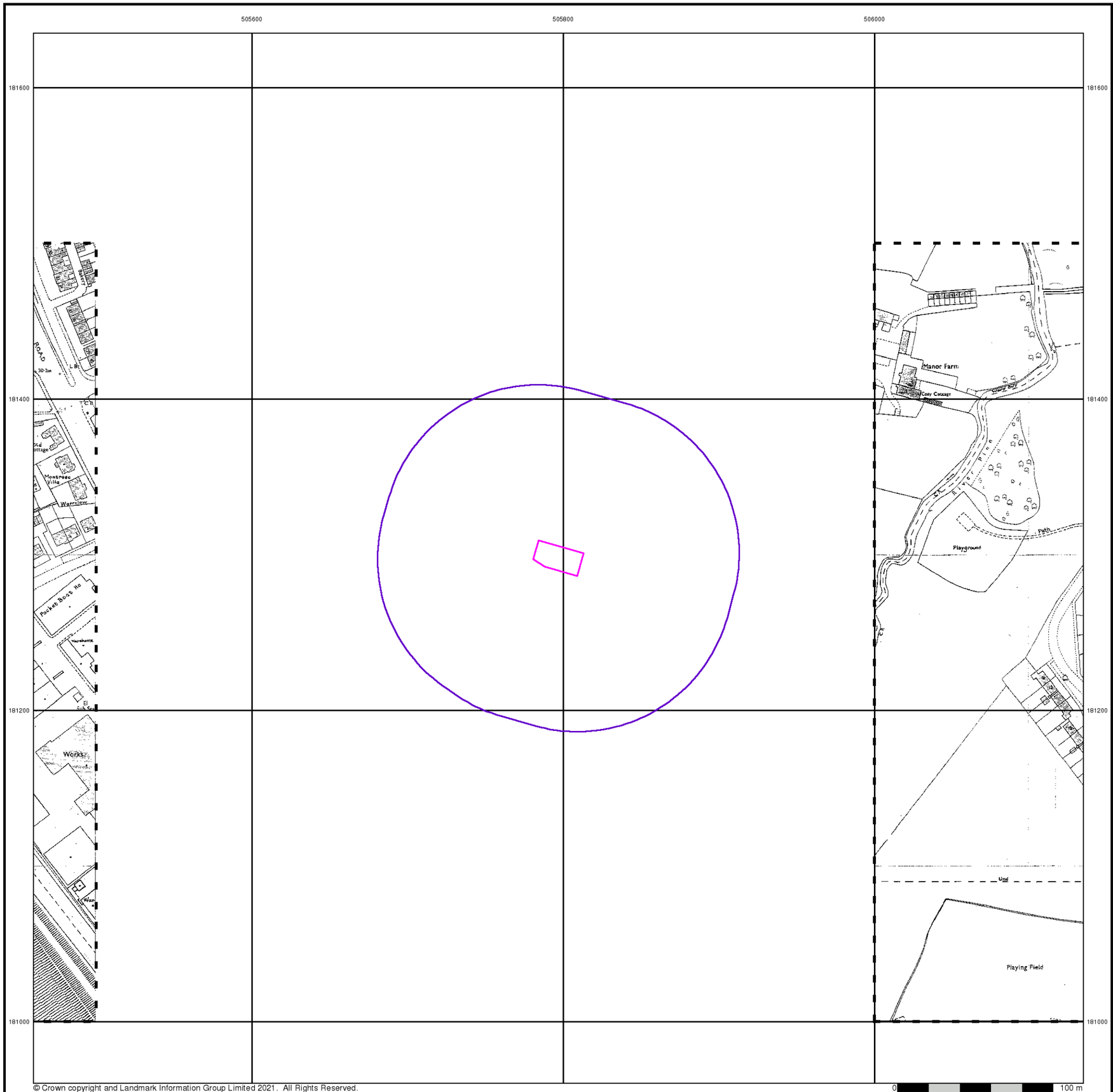

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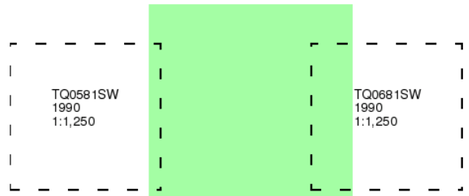
Additional SIMs

Published 1990

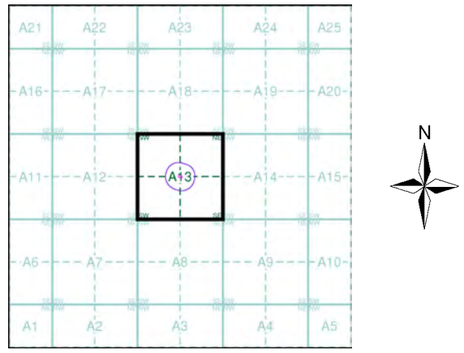
Source map scale - 1:1,250

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



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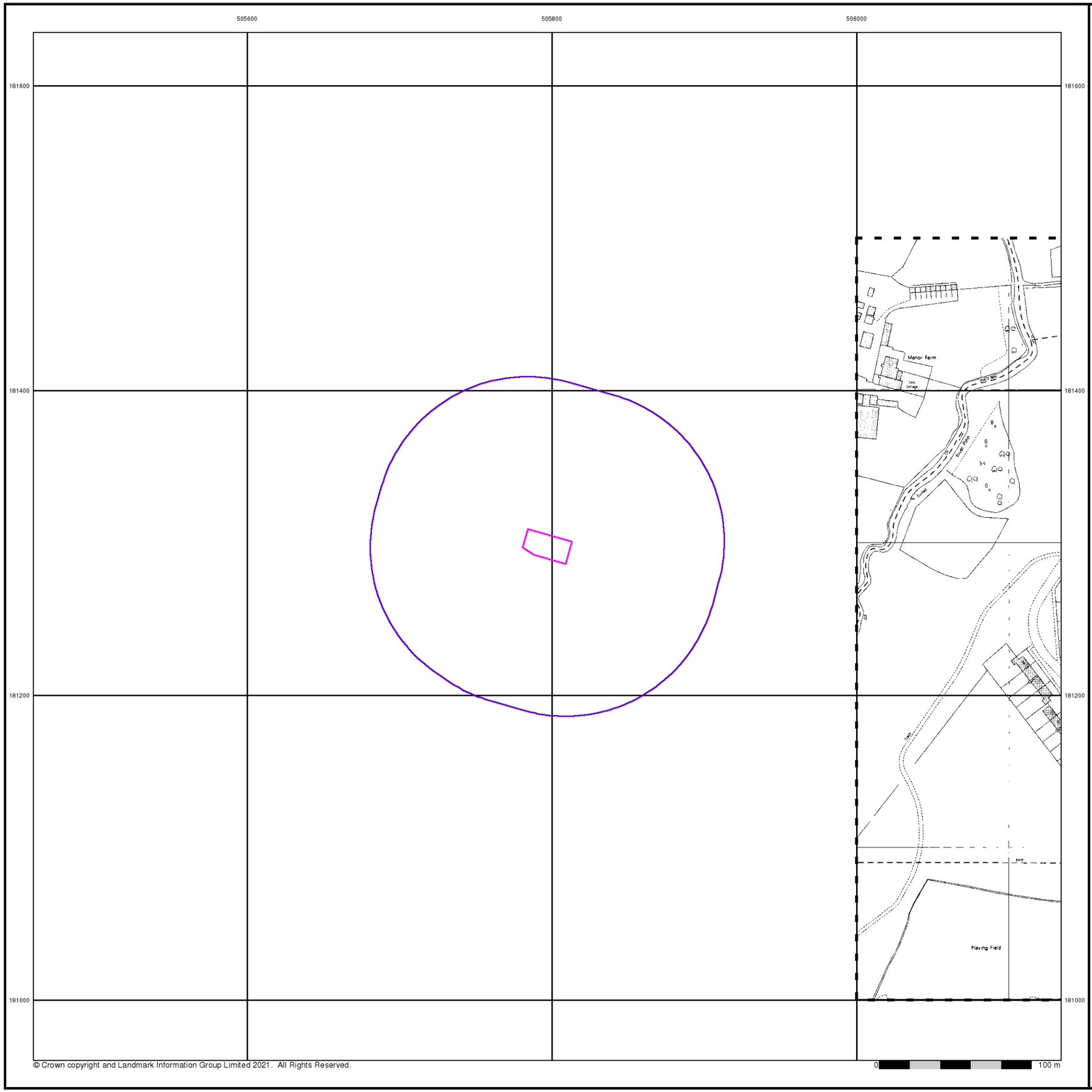

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Ordnance Survey Plan

Published 1991

Source map scale - 1:1,250

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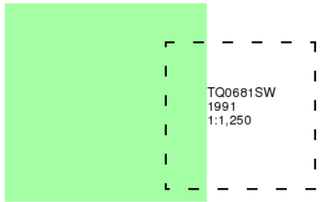
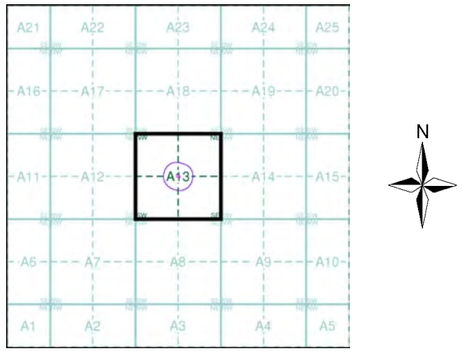
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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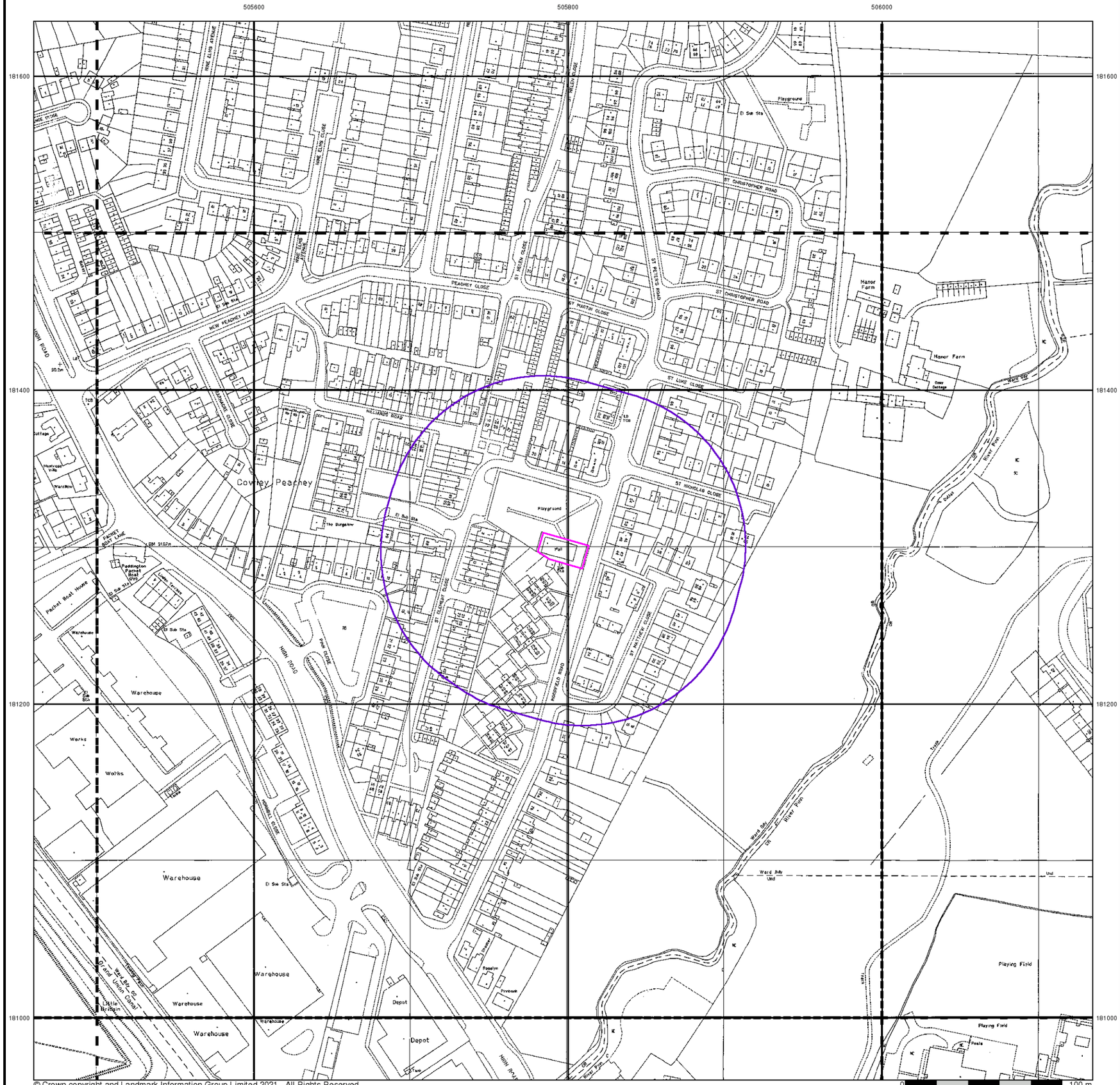

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Large-Scale National Grid Data

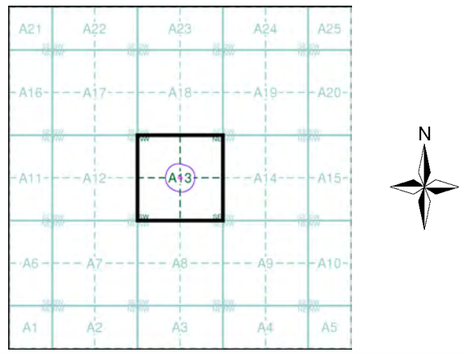
Published 1992

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



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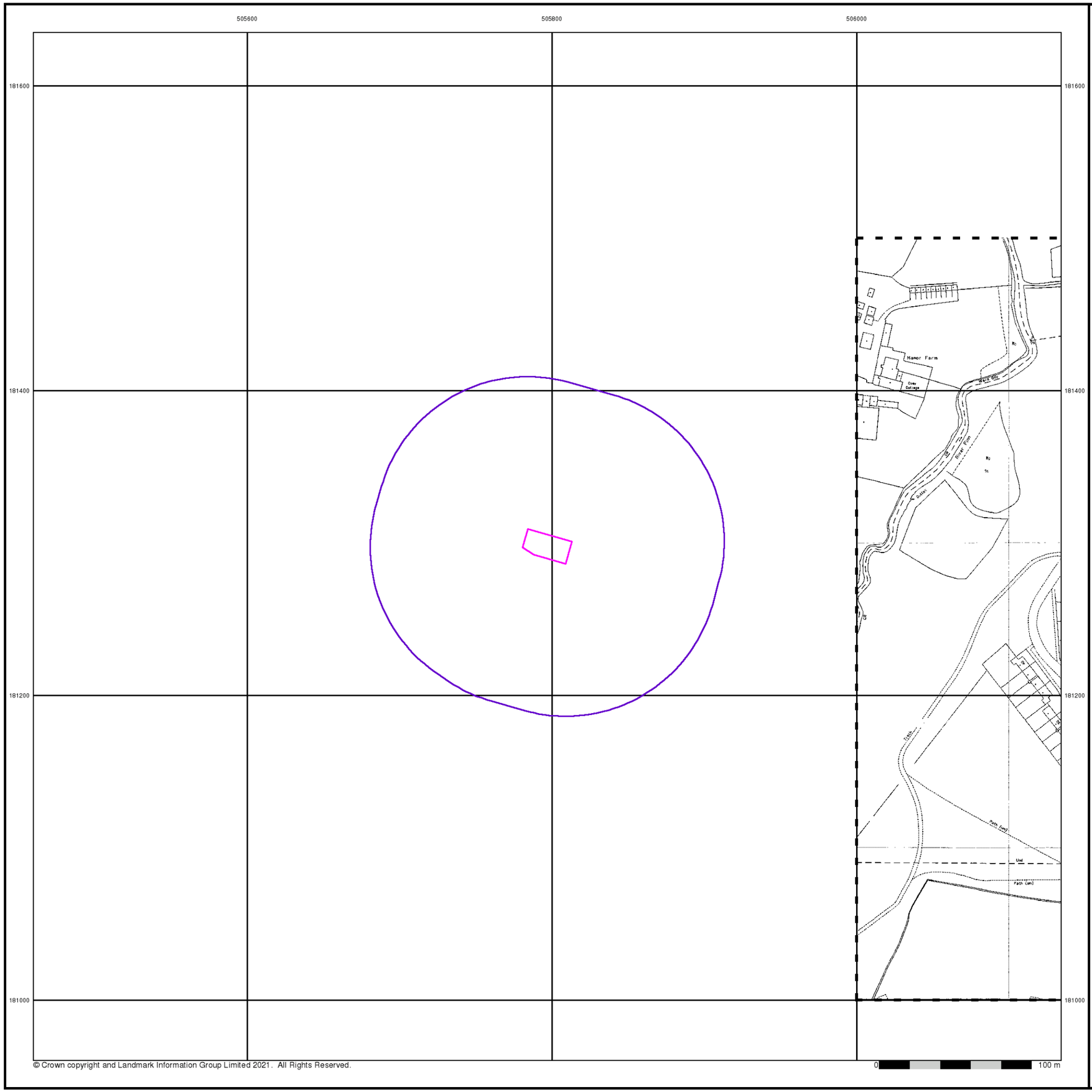

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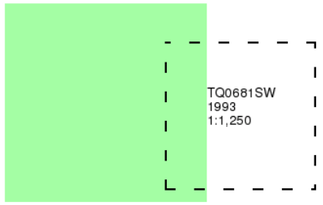
Large-Scale National Grid Data

Published 1993

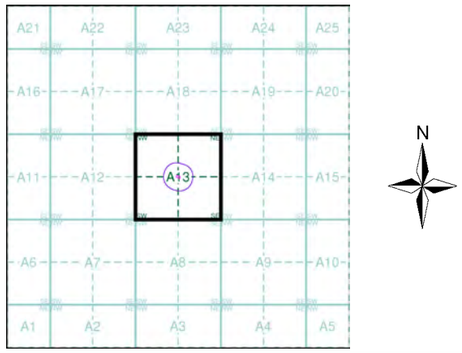
Source map scale - 1:1,250

'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

Order Number:	280400942_1_1
Customer Ref:	2105014.001
National Grid Reference:	505800, 181300
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	100

Site Details

Endeavour Sea Scout Group, Moorfield Road, Cowley, UXBRIDGE, UB8 3SJ

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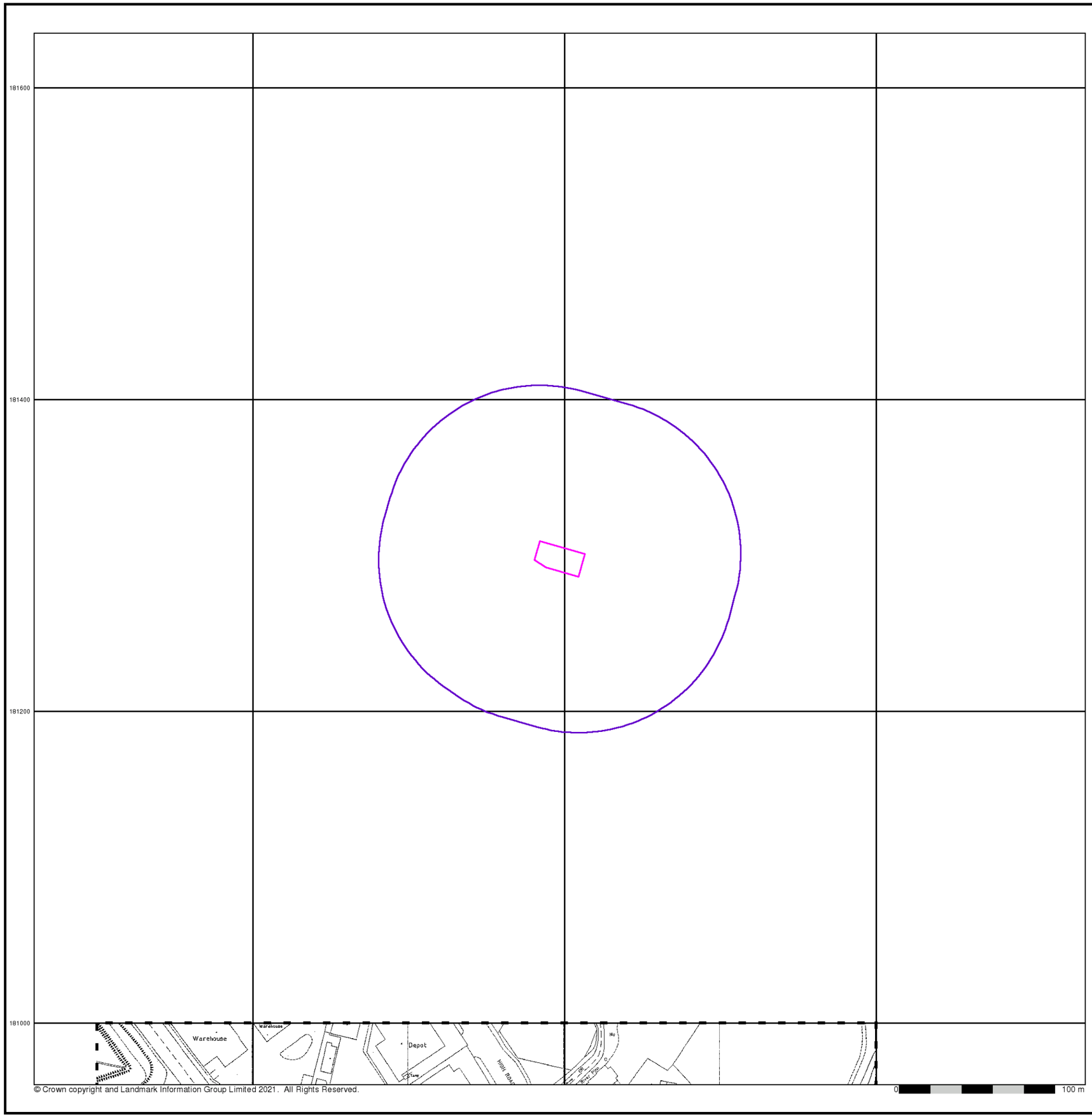
Web: www.envirocheck.co.uk



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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.

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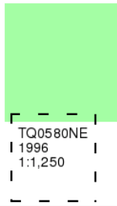
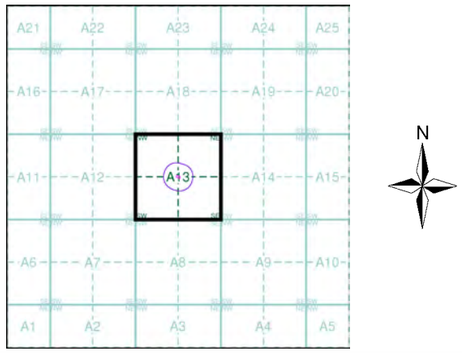


Historical Map - Segment A13



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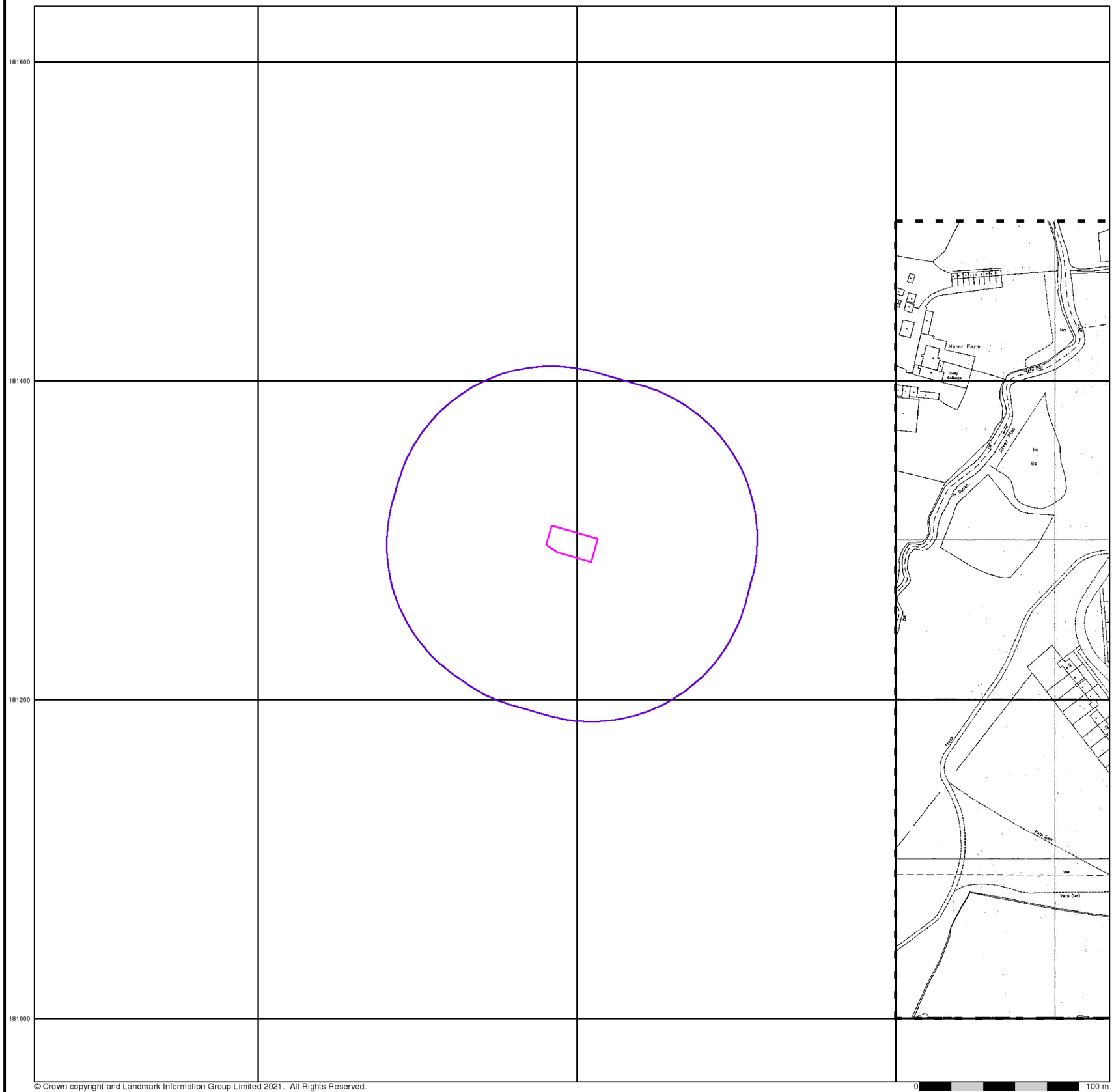

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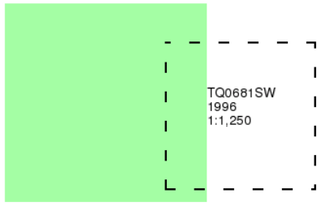
Large-Scale National Grid Data

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)



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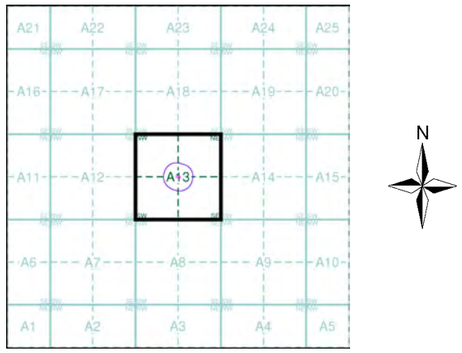

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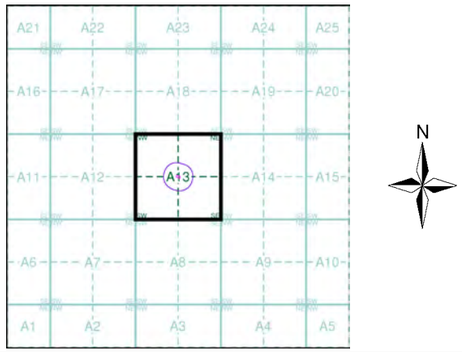
Historical Aerial Photography

Published 1999

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

Historical Aerial Photography - Segment A13



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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

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

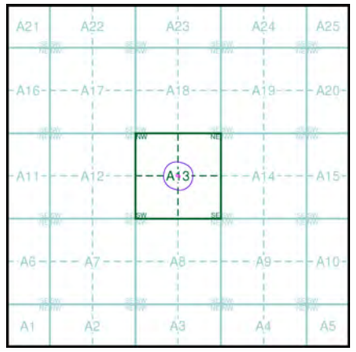
1:10,000 Raster Mapping

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

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Middlesex	1:10,560	1868	3
Buckinghamshire	1:10,560	1881	4
Middlesex	1:10,560	1897	5
Buckinghamshire	1:10,560	1900	6
Middlesex	1:10,560	1920	7
Middlesex	1:10,560	1920	8
Buckinghamshire	1:10,560	1932	9
Middlesex	1:10,560	1935	10
Middlesex	1:10,560	1938	11
Middlesex	1:10,560	1938	12
Historical Aerial Photography	1:10,560	1948	13
Historical Aerial Photography	1:10,560	1948	14
Ordnance Survey Plan	1:10,000	1960	15
Ordnance Survey Plan	1:10,000	1965 - 1966	16
Ordnance Survey Plan	1:10,000	1970 - 1975	17
Ordnance Survey Plan	1:10,000	1975 - 1977	18
London	1:25,000	1985	19
Ordnance Survey Plan	1:10,000	1988 - 1989	20
Ordnance Survey Plan	1:10,000	1990	21
10K Raster Mapping	1:10,000	1999	22
10K Raster Mapping	1:10,000	2006	23
VectorMap Local	1:10,000	2021	24

Historical Map - Slice A



Order Details

Order Number: 280400942_1_1
Customer Ref: 2105014.001
National Grid Reference: 505800, 181300
Slice: A
Site Area (Ha): 0.05
Search Buffer (m): 1000

Site Details

Endeavour Sea Scout Group, Moorfield Road, Cowley, UXBRIDGE, UB8 3SJ

Landmark INFORMATION GROUP
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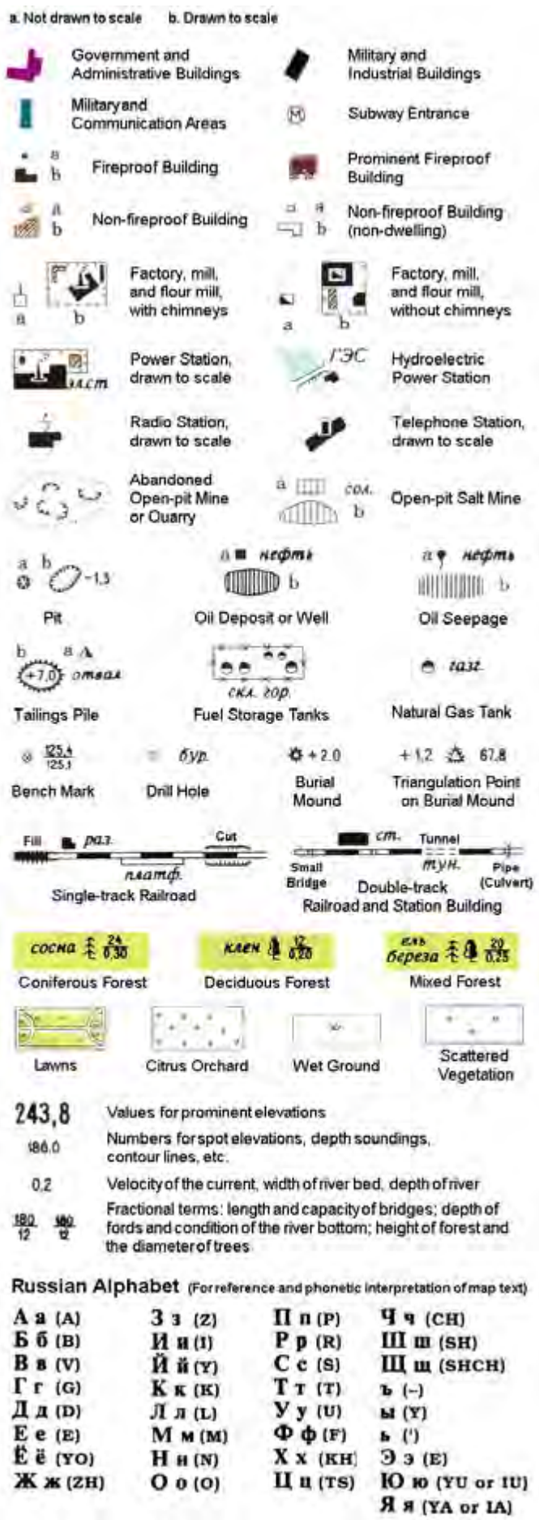
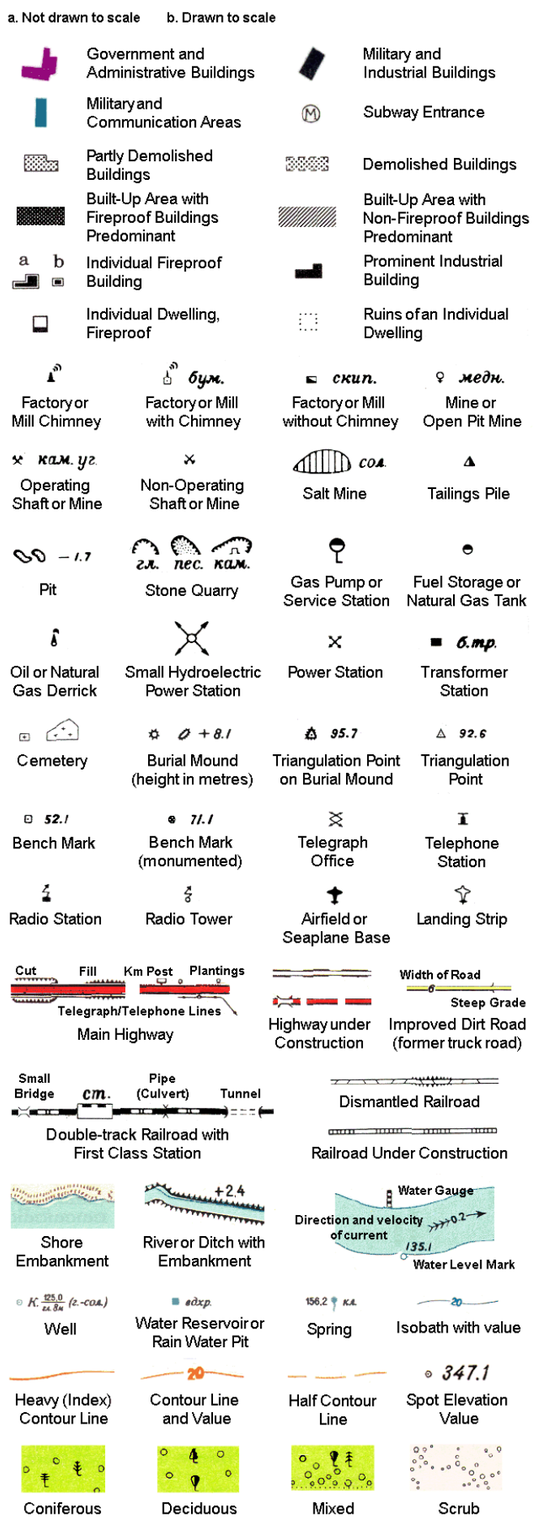
Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping



1:25,000 mapping



Key to Numbers on Mapping

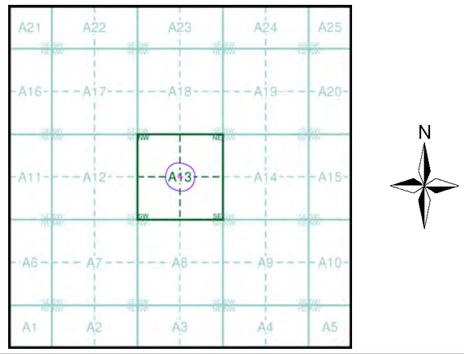
TQ08_London

No.	Description
193	Chemical Plant

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Middlesex	1:10,560	1868	3
Buckinghamshire	1:10,560	1881	4
Middlesex	1:10,560	1897	5
Buckinghamshire	1:10,560	1900	6
Middlesex	1:10,560	1920	7
Middlesex	1:10,560	1920	8
Buckinghamshire	1:10,560	1932	9
Middlesex	1:10,560	1935	10
Middlesex	1:10,560	1938	11
Middlesex	1:10,560	1938	12
Historical Aerial Photography	1:10,560	1948	13
Historical Aerial Photography	1:10,560	1948	14
Ordnance Survey Plan	1:10,000	1960	15
Ordnance Survey Plan	1:10,000	1965 - 1966	16
Ordnance Survey Plan	1:10,000	1970 - 1975	17
Ordnance Survey Plan	1:10,000	1975 - 1977	18
London	1:25,000	1985	19
Ordnance Survey Plan	1:10,000	1988 - 1989	20
Ordnance Survey Plan	1:10,000	1990	21
10K Raster Mapping	1:10,000	1999	22
10K Raster Mapping	1:10,000	2006	23
VectorMap Local	1:10,000	2021	24

Russian Map - Slice A



Order Details

Order Number: 280400942_1_1
Customer Ref: 2105014.001
National Grid Reference: 505800, 181300
Slice: A
Site Area (Ha): 0.05
Search Buffer (m): 1000

Site Details

Endeavour Sea Scout Group, Moorfield Road, Cowley, UXBRIDGE, UB8 3SJ

Landmark INFORMATION GROUP
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Middlesex

Published 1868

Source map scale - 1:10,560

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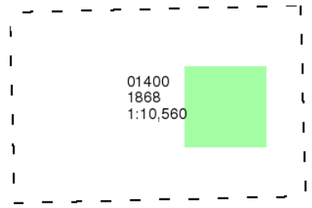
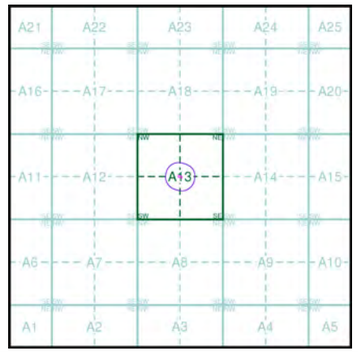
Map Name(s) and Date(s)



Historical Map - Slice A



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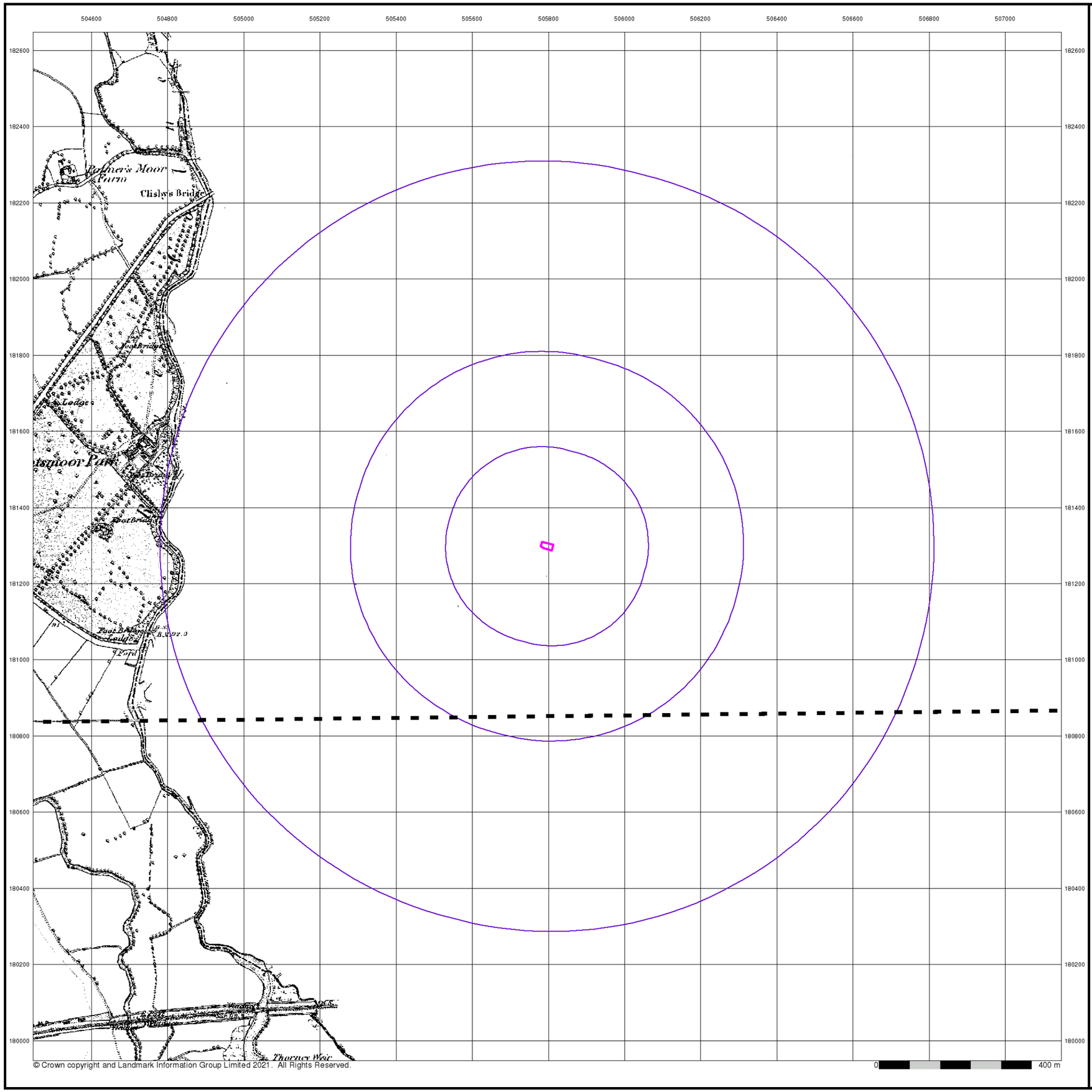

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Buckinghamshire

Published 1881

Source map scale - 1:10,560

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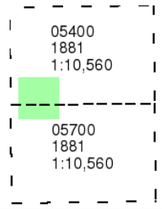
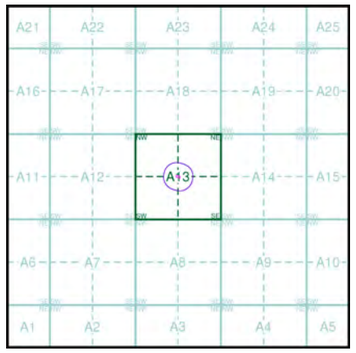


Historical Map - Slice A



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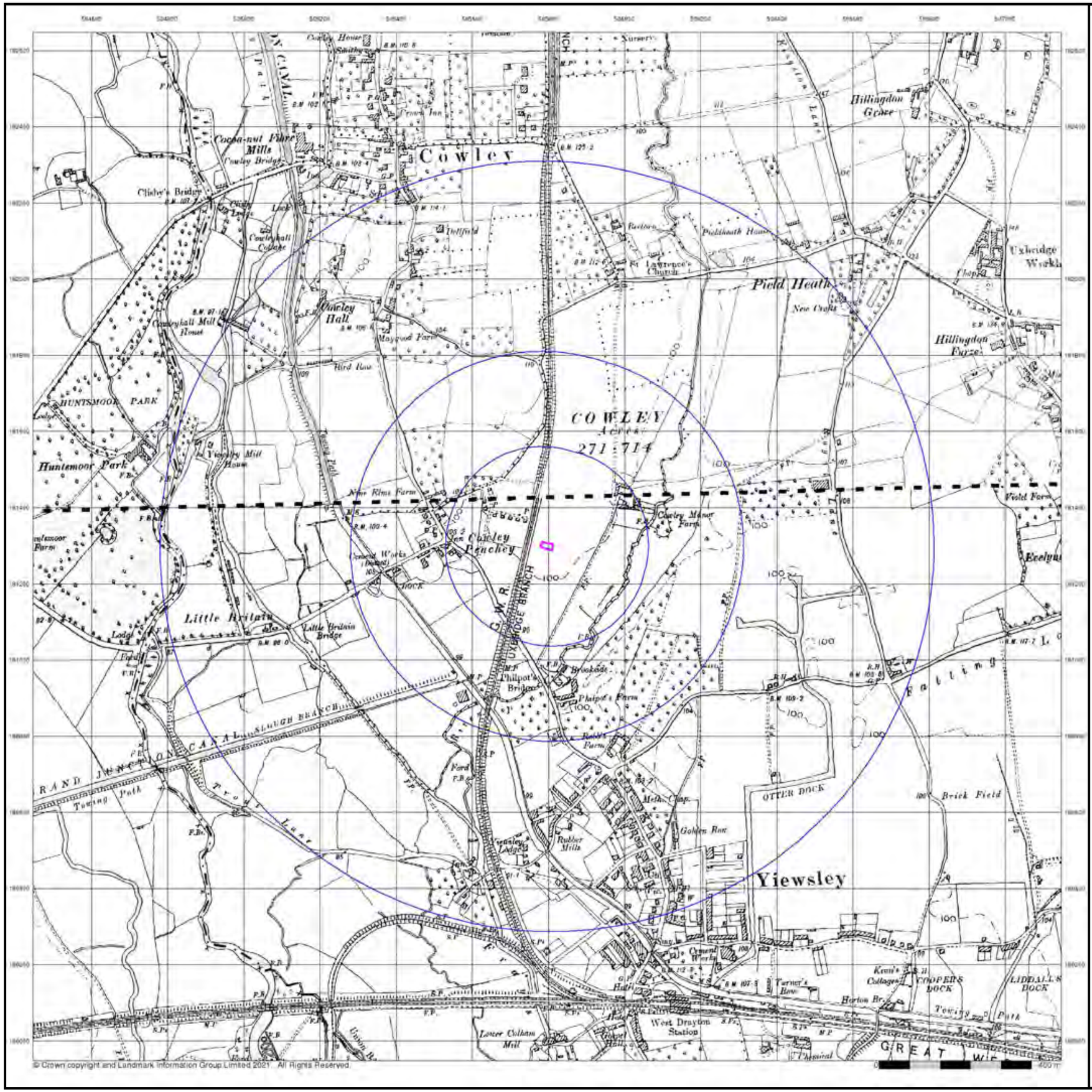

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Middlesex

Published 1897

Source map scale - 1:10,560

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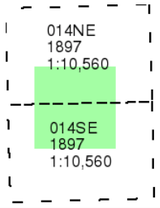
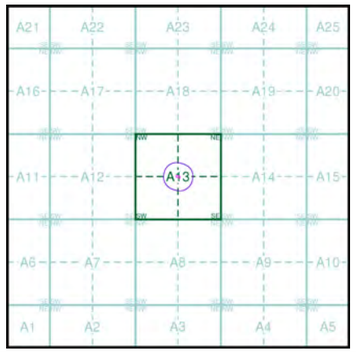


Historical Map - Slice A



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Order Details

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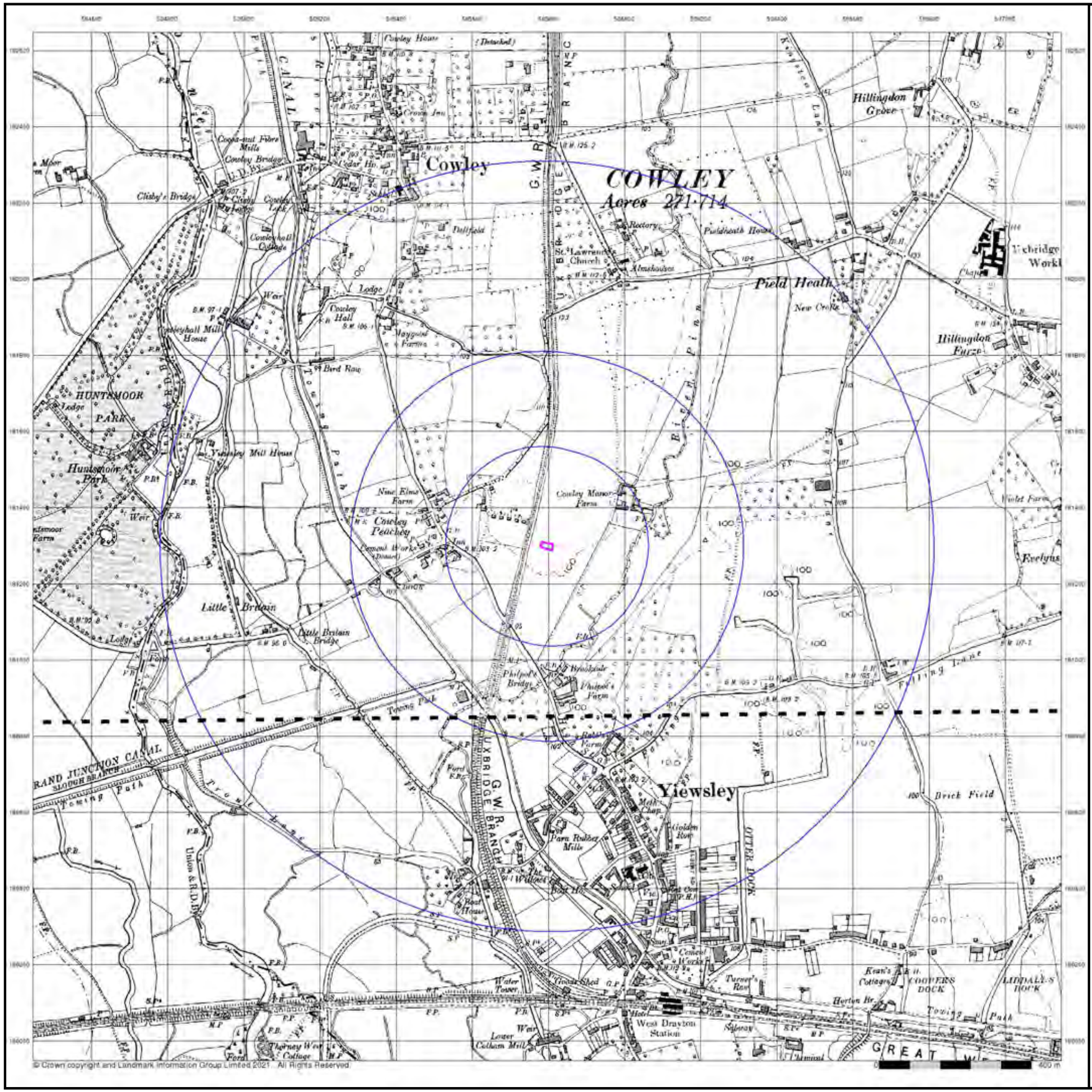

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Buckinghamshire

Published 1900

Source map scale - 1:10,560

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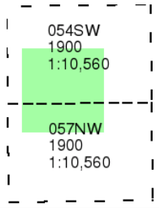
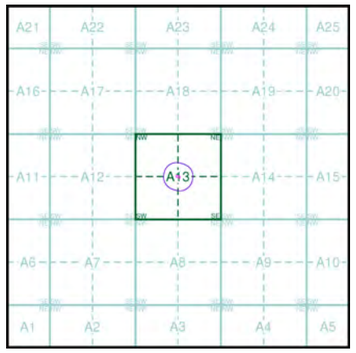


Historical Map - Slice A



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Order Details

Order Number:	280400942_1_1
Customer Ref:	2105014.001
National Grid Reference:	505800, 181300
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

Endeavour Sea Scout Group, Moorfield Road, Cowley, UXBRIDGE, UB8 3SJ

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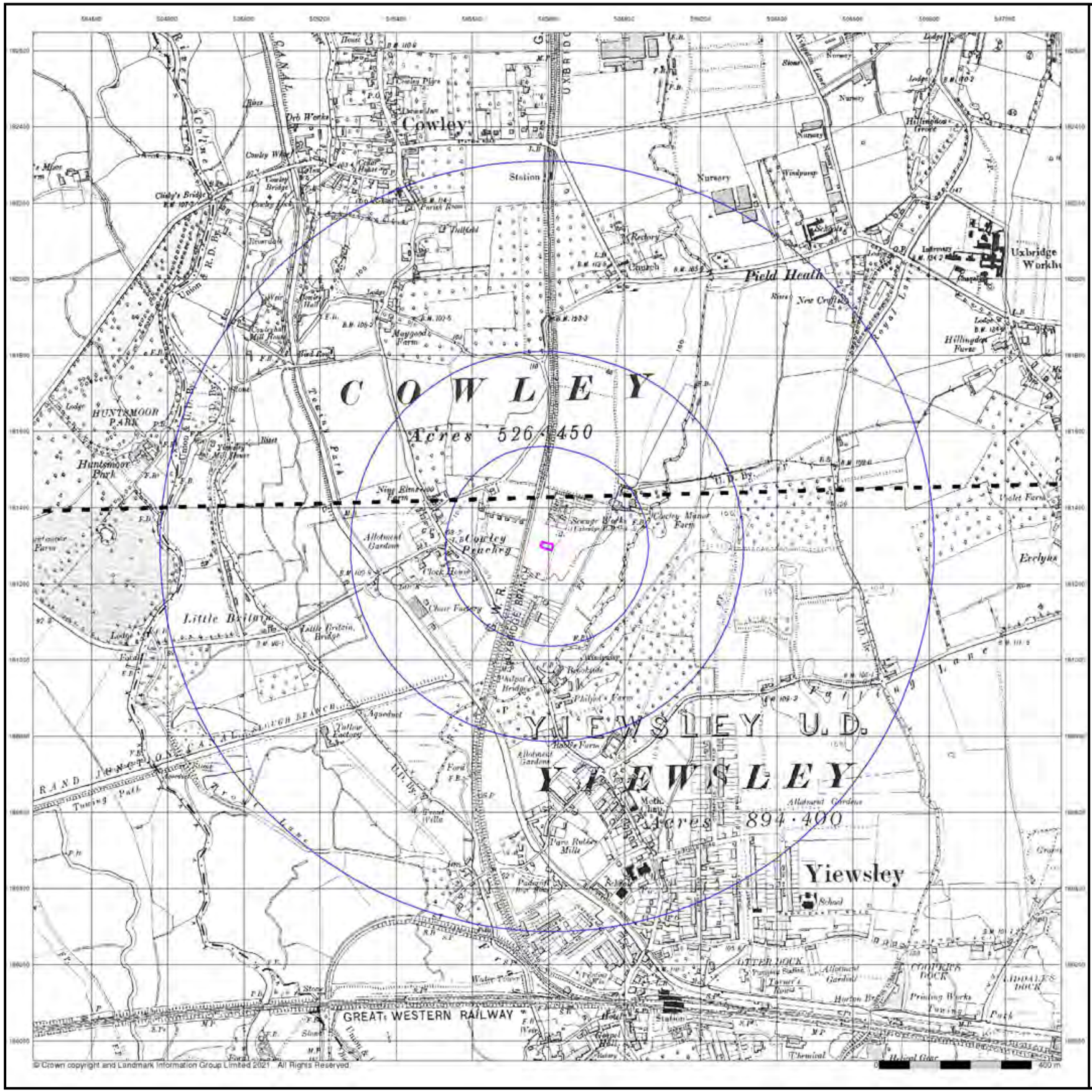

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Middlesex

Published 1920

Source map scale - 1:10,560

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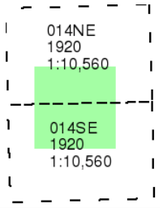
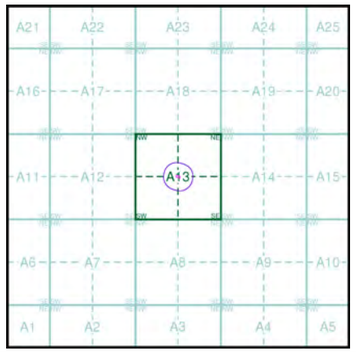
Map Name(s) and Date(s)



Historical Map - Slice A



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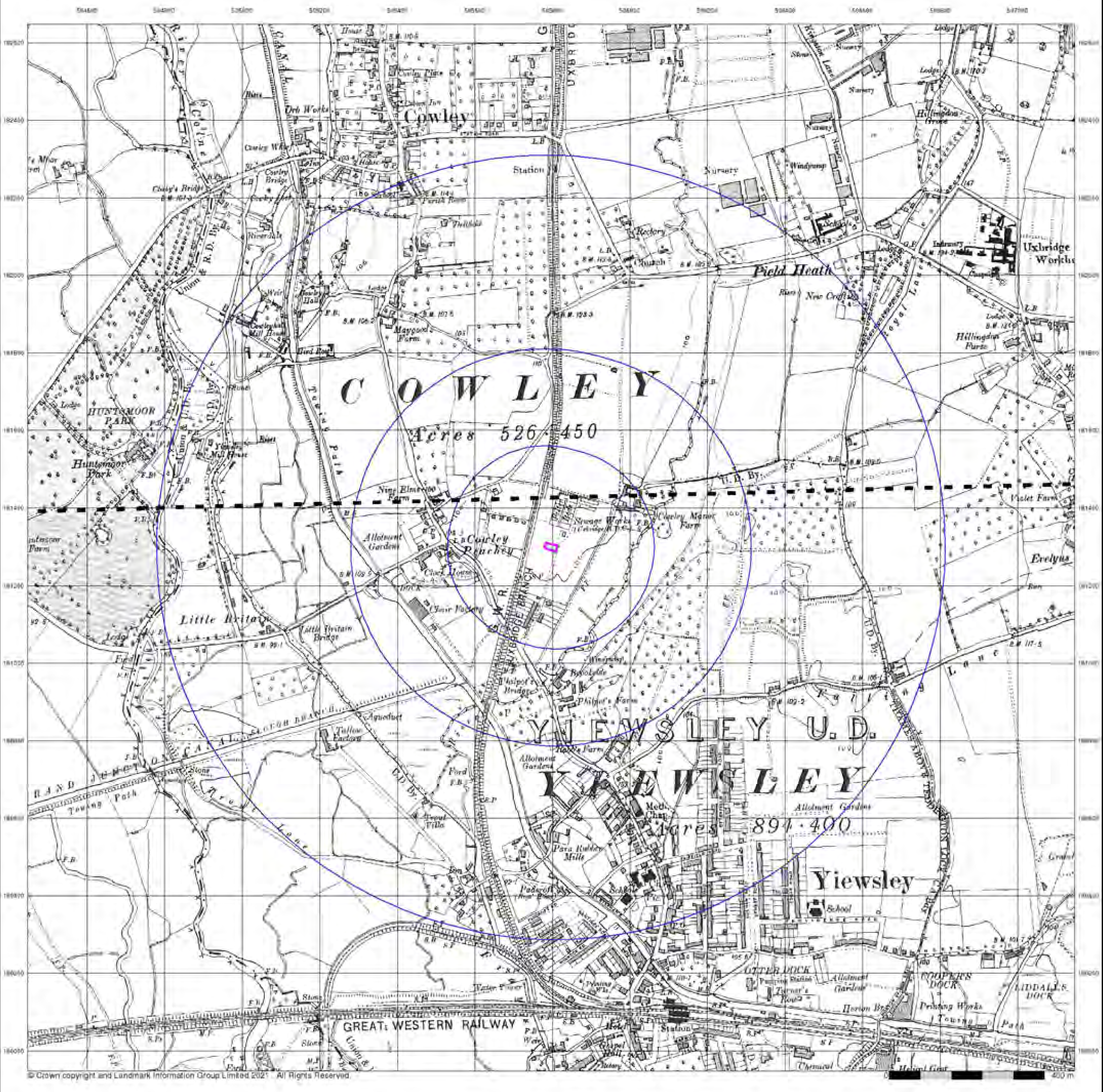

Middlesex

Published 1920

Source map scale - 1:10,560

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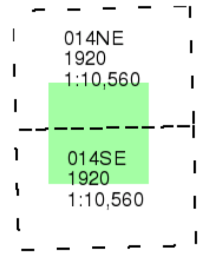
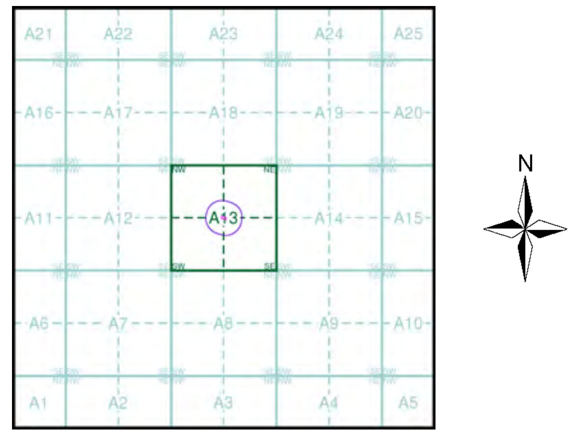


Historical Map - Slice A



Order Details

Order Number: 280400942_1_1
Customer Ref: 2105014.001
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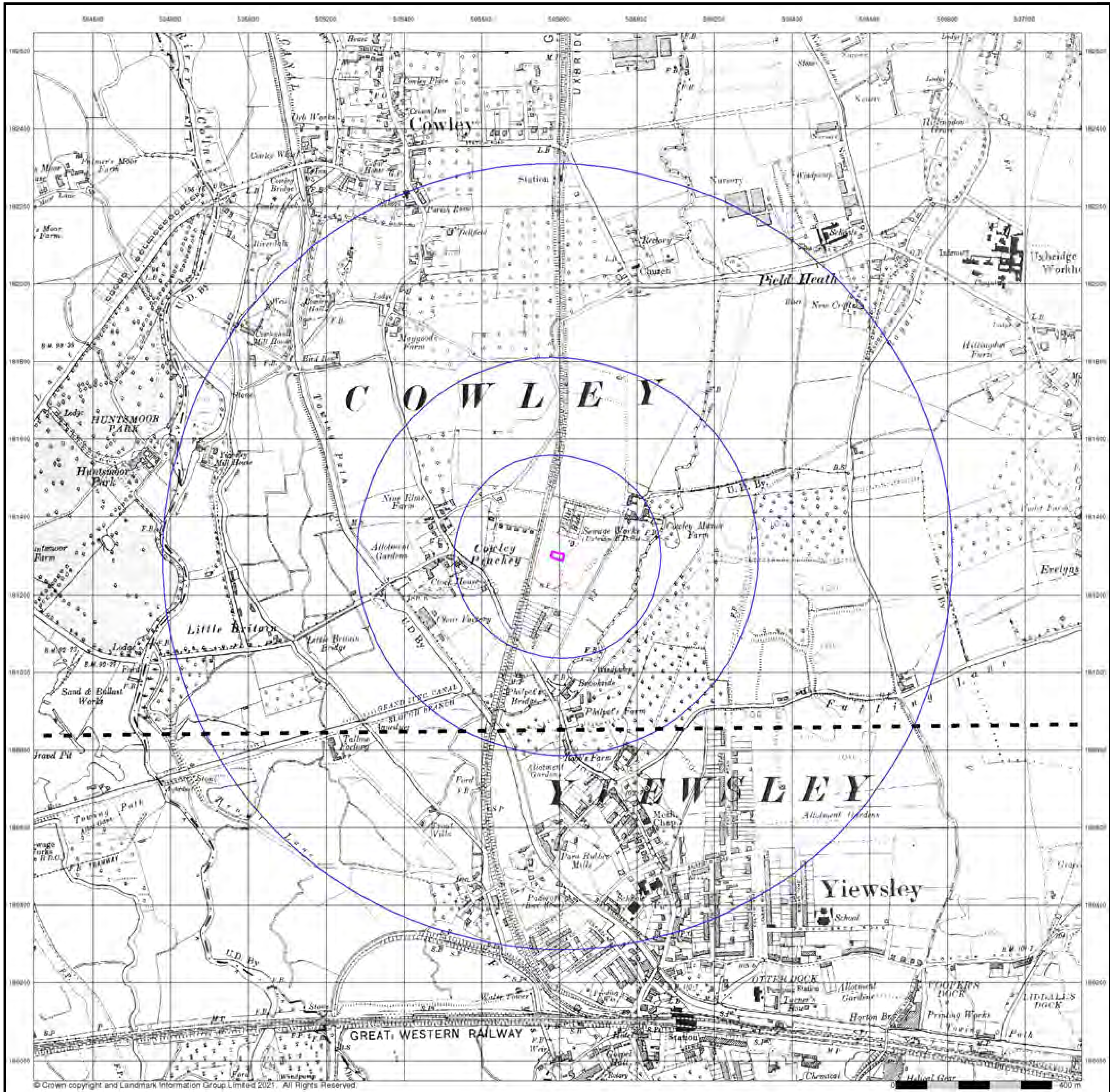

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Buckinghamshire

Published 1932

Source map scale - 1:10,560

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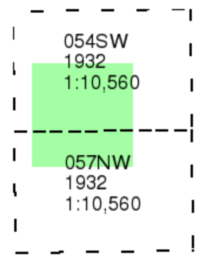
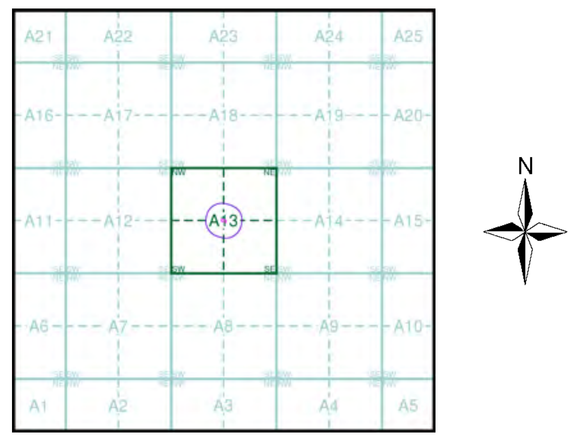
Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 280400942_1_1
Customer Ref: 2105014.001
National Grid Reference: 505800, 181300
Slice: A
Site Area (Ha): 0.05
Search Buffer (m): 1000

Site Details

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Middlesex

Published 1935

Source map scale - 1:10,560

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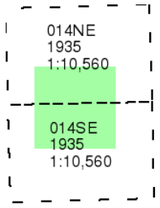
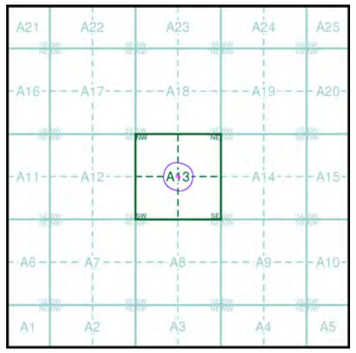
Map Name(s) and Date(s)



Historical Map - Slice A



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Order Details

Order Number:	280400942_1_1
Customer Ref:	2105014.001
National Grid Reference:	505800, 181300
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

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Middlesex

Published 1938

Source map scale - 1:10,560

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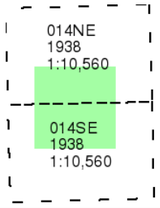
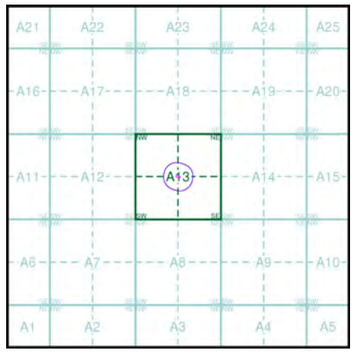


Historical Map - Slice A



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Middlesex

Published 1938

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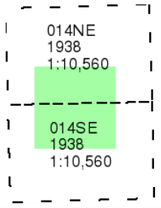
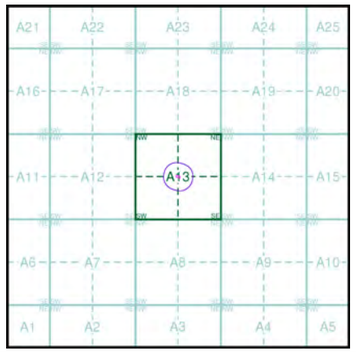


Historical Map - Slice A



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Order Details

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Slice:	A
Site Area (Ha):	0.05
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Site Details

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Web: www.envirocheck.co.uk

Historical Aerial Photography

Published 1948

Source map scale - 1:10,560

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

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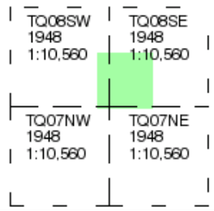
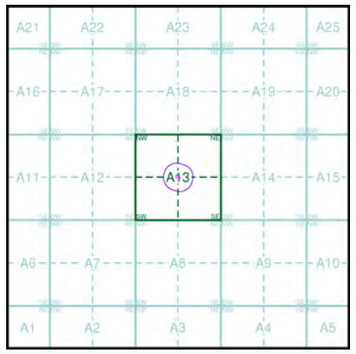
Map Name(s) and Date(s)



Historical Aerial Photography - Slice A



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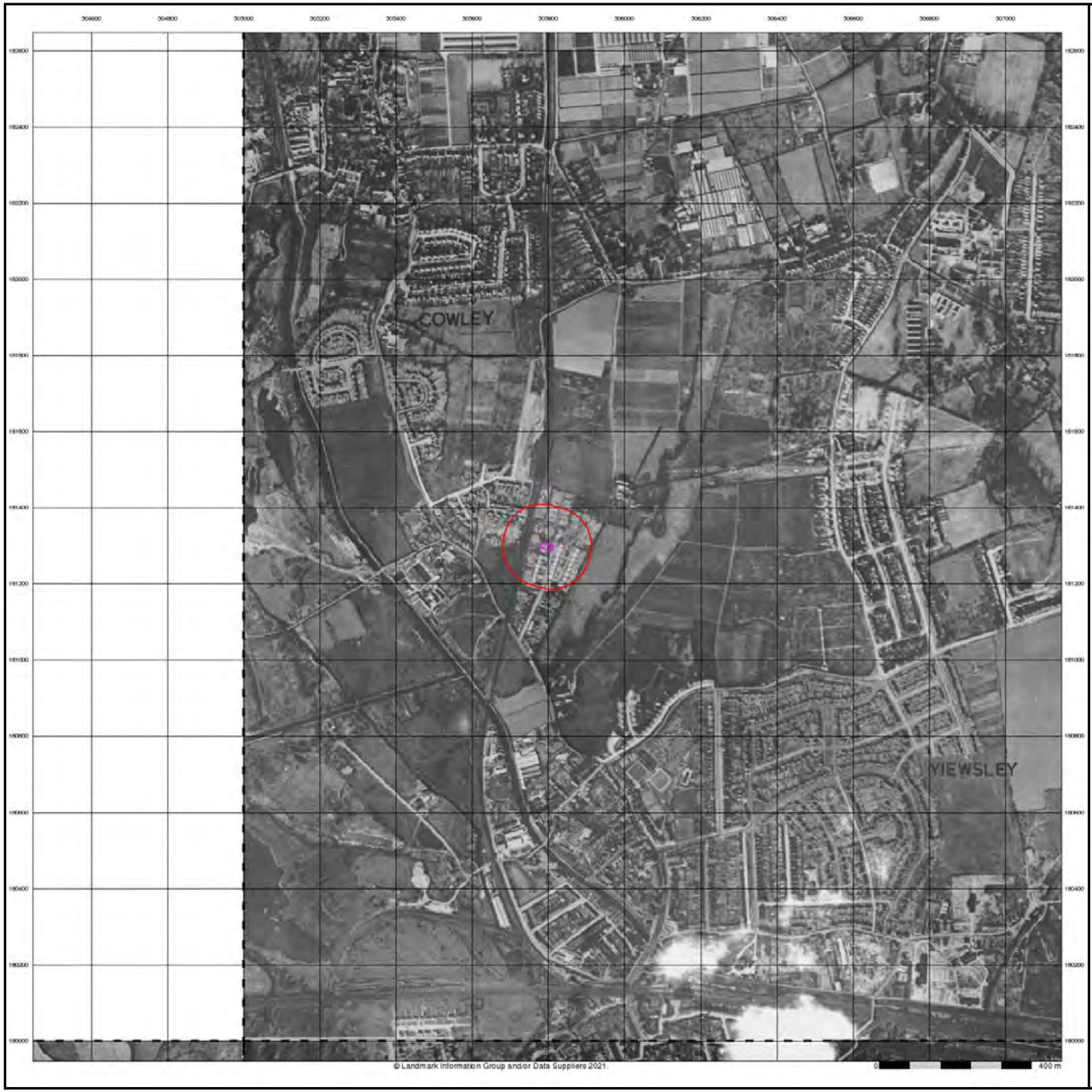

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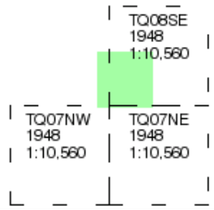
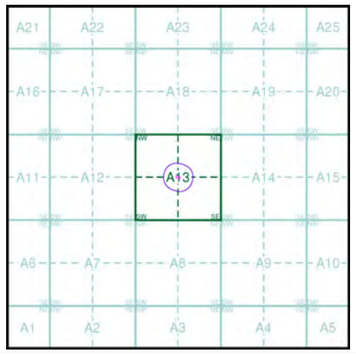


Historical Aerial Photography - Slice A



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Ordnance Survey Plan

Published 1960

Source map scale - 1:10,000

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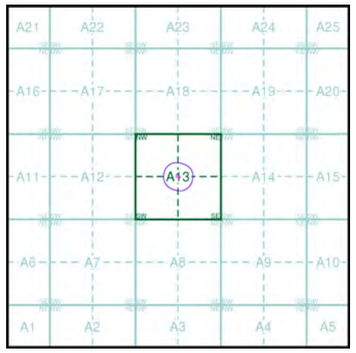
Map Name(s) and Date(s)

TQ08SW 1960 1:10,560	TQ08SE 1960 1:10,560
TQ07NW 1960 1:10,560	TQ07NE 1960 1:10,560

Historical Map - Slice A



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Order Details

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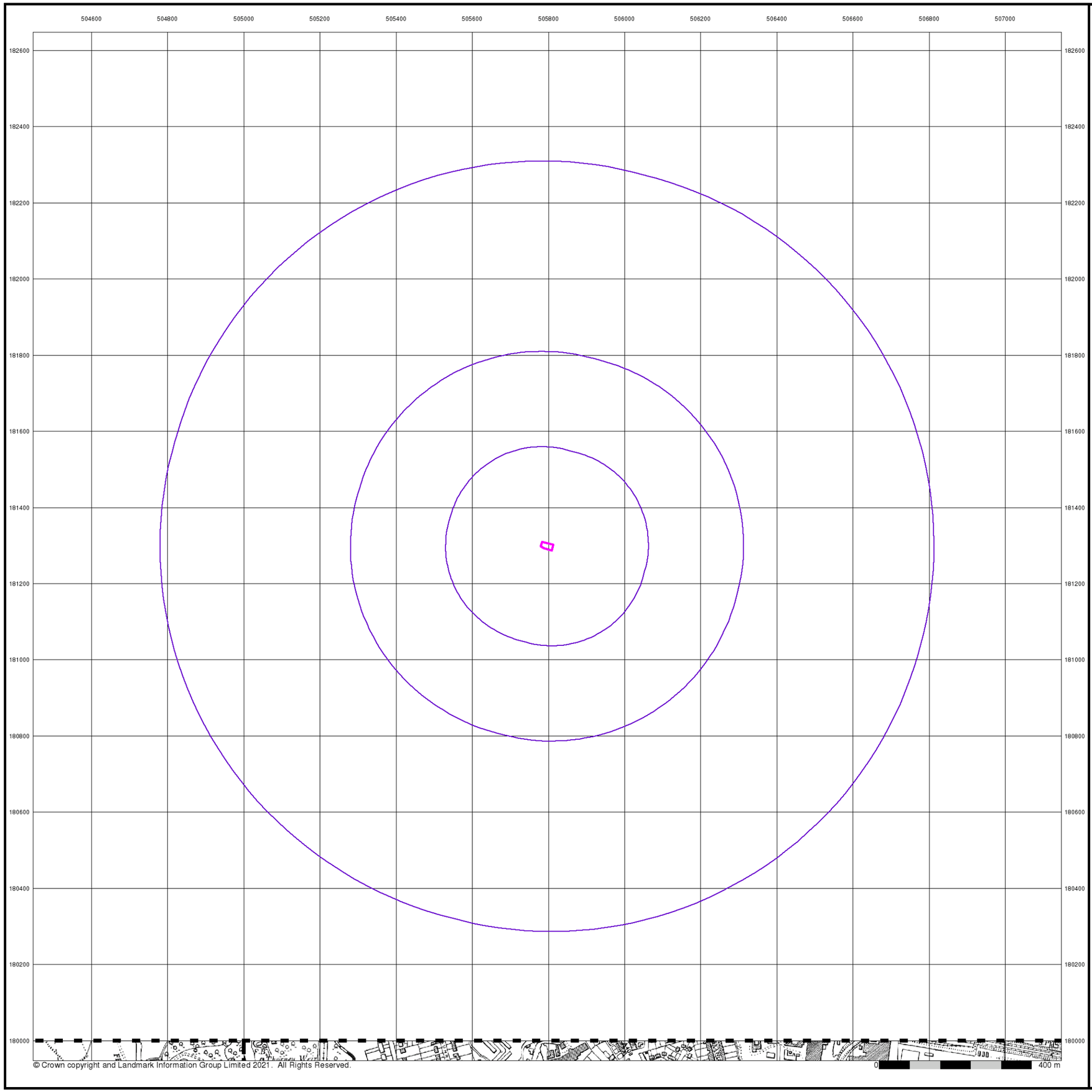

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Ordnance Survey Plan

Published 1965 - 1966

Source map scale - 1:10,000

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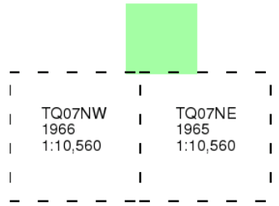
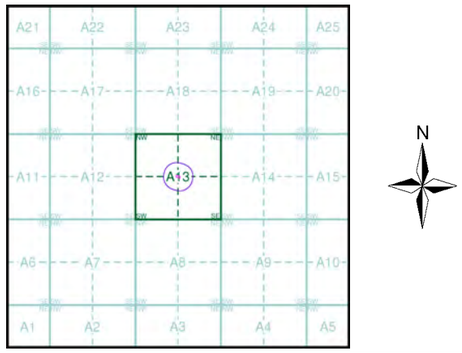
Map Name(s) and Date(s)



Historical Map - Slice A



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Slice:	A
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Ordnance Survey Plan

Published 1970 - 1975

Source map scale - 1:10,000

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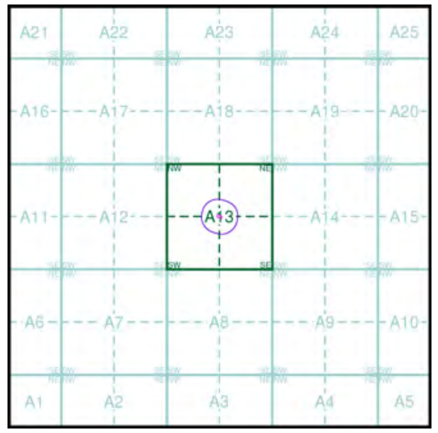
Map Name(s) and Date(s)

TQ08SW 1974 1:10,000	TQ08SE 1970 1:10,560
TQ07NW 1975 1:10,000	TQ07NE 1970 1:10,560

Historical Map - Slice A



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Order Details

Order Number: 280400942_1_1
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Ordnance Survey Plan

Published 1975 - 1977

Source map scale - 1:10,000

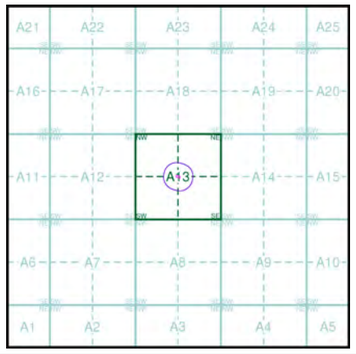
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

Map Name(s) and Date(s)

TQ08SE
1977
1:10,000

TQ07NE
1975
1:10,000

Historical Map - Slice A



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Order Details

Order Number:	280400942_1_1
Customer Ref:	2105014.001
National Grid Reference:	505800, 181300
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

Endeavour Sea Scout Group, Moorfield Road, Cowley, UXBRIDGE, UB8 3SJ

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London

Published 1985

Source map scale - 1:25,000

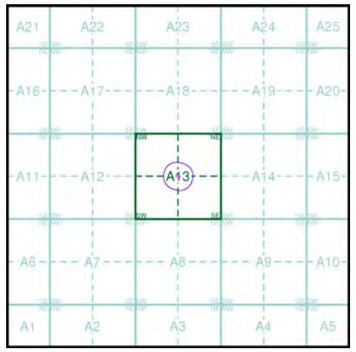
These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use.
They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

Map Name(s) and Date(s)

TQ08
1985
1:25,000

TQ07
1985
1:25,000

Russian Map - Slice A



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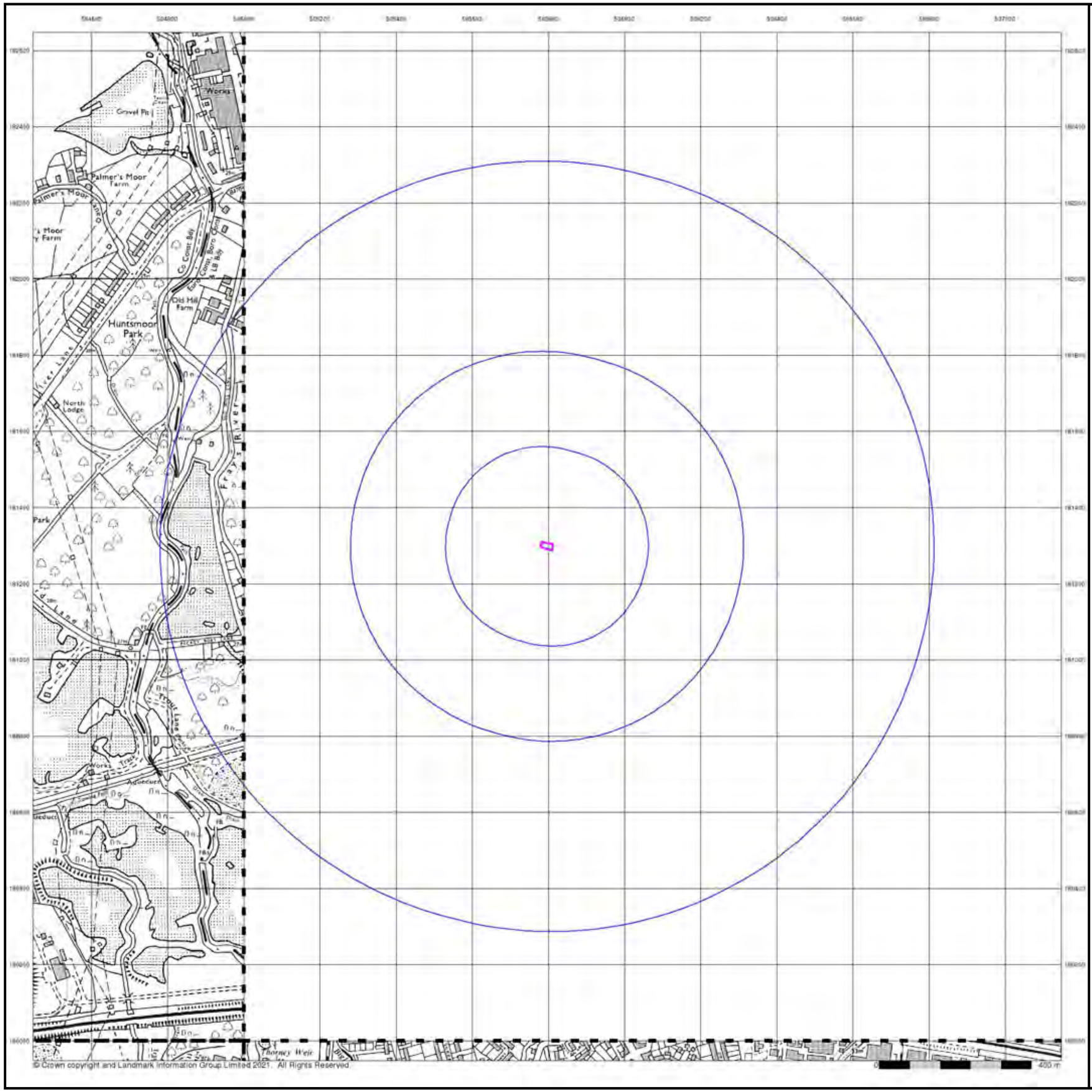

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Ordnance Survey Plan

Published 1988 - 1989

Source map scale - 1:10,000

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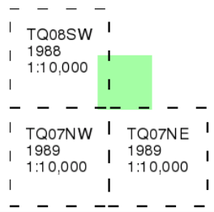
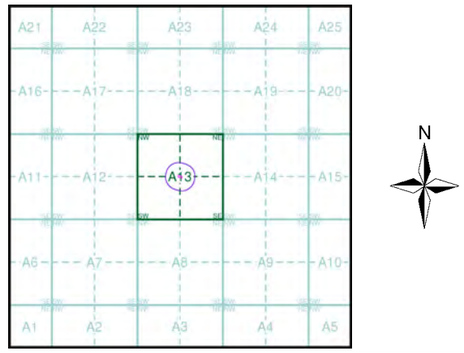
Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	280400942_1_1
Customer Ref:	2105014.001
National Grid Reference:	505800, 181300
Slice:	A
Site Area (Ha):	0.05
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Ordnance Survey Plan

Published 1990

Source map scale - 1:10,000

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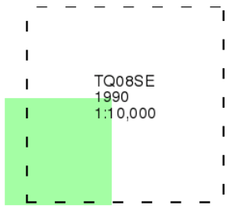
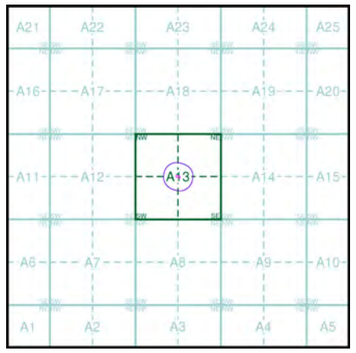
Map Name(s) and Date(s)



Historical Map - Slice A



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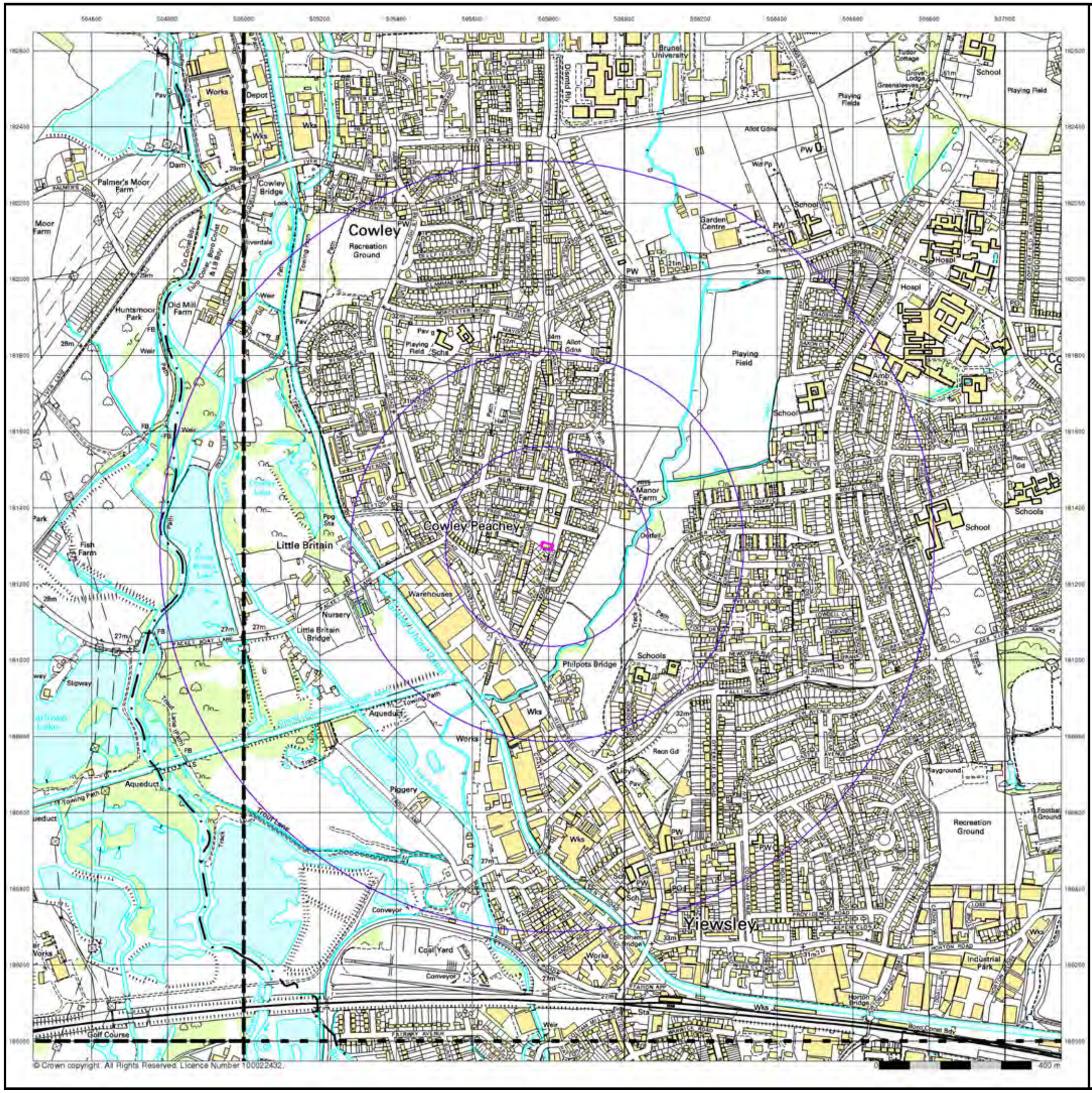
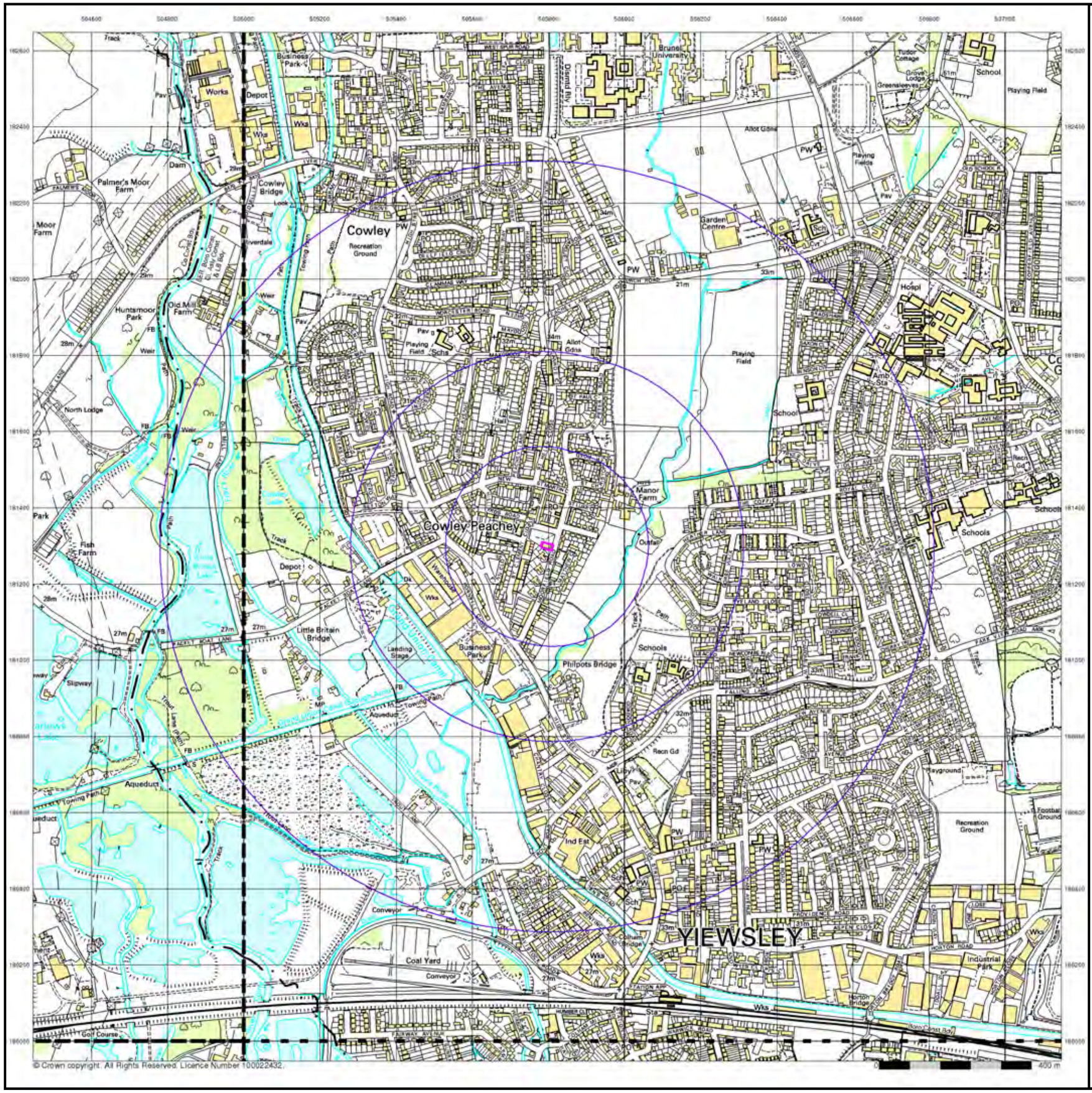

Cowley
Recreation Ground
Cowley Peachey
Little Britain
Yiewsley
Brunel University
Playing Fields
Playing Field
Garden Centre
Hospl
Manor Farm
Warehouses
Nursery
Little Britain Bridge
Philpots Bridge
Schools
Aqueduct
Piggery
Coal Yard
Conveyor
Industrial Park
Horton Bridge
Golf Course
Palmer's Moor Farm
Moor Farm
Huntsmoor Park
Old Mill Farm
Cowley Bridge
Fish Farm
Slipway
Works
Depot
Dam
Weir
Wks
Recn Gd
Playground
Football Ground
Amb Sta
Sta
Schools
School
Playing Field
Allot Gdns
Tudor Cottage
Greensleeves
Grove Lodge
Tennis Ct
Cowley Lake
Grassland Lake
Trout Lake
Grand Union Canal
Tow Path
Towing Path
Grand Union Canal Branch
Horton Road
Station Road
Cowley Road
Moorfield Road
Hillingdon Road
Yiewsley High Street
Stockley Road
Station Approach
Park Lane
Tavistock Road
Bond Street
Bond Street Bdg
Dismd Bdg
Ppg Sta
Pav
PW
FB
Weir
Lock
Path
Track
Footbridge
Bridge
Aqueduct
Conveyor
Coal Yard
Golf Course
Recreation Ground
Industrial Park
Schools
Playground
Football Ground
Recn Gd
Allot Gdns
Playing Field
Garden Centre
Hospl
Amb Sta
Sta
Wks
Works
Warehouses
Nursery
Piggery
Weir
Slipway
Dam
Depot
Works
Wks



10k Raster Mapping

Published 2006

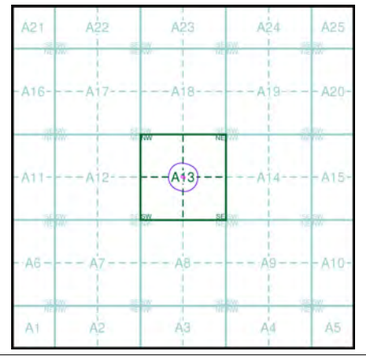
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

TQ08SW 2006 1:10,000	TQ08SE 2006 1:10,000
TQ07NW 2006 1:10,000	TQ07NE 2006 1:10,000

Historical Map - Slice A



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VectorMap Local

Published 2021

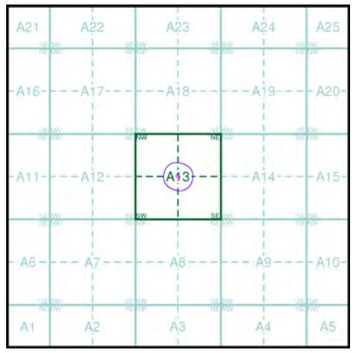
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

TQ08SW 2021 Variable	TQ08SE 2021 Variable
TQ07NW 2021 Variable	TQ07NE 2021 Variable

Historical Map - Slice A



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