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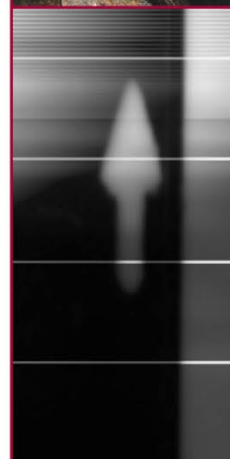
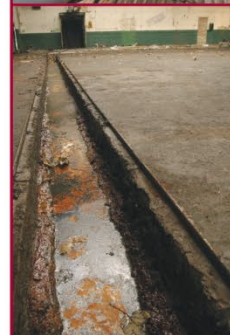
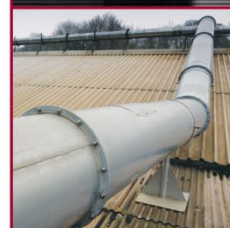
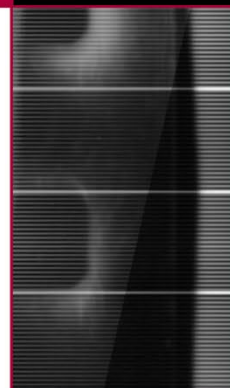
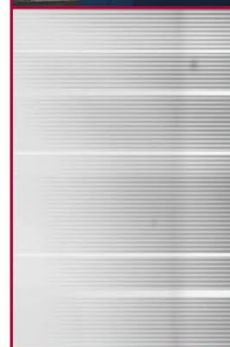
**PHASE I
DESK STUDY**

**LAND AT OVERTON-ON-DEE
WREXHAM**

Report No: 19148/1
Date: August 2019

Prepared for

PICKSTOCK HOMES LIMITED



Innovative Land Development Solutions

**PROJECT QUALITY ASSURANCE
INFORMATION SHEET**

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WREXHAM**

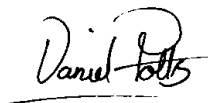
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FOREWORD

This report has been prepared for the sole internal use and reliance of the Client(s) named on the Project Quality Assurance Information Sheet. This report shall not be relied upon or transferred to any other parties without the express written authorisation of Georisk Management Ltd (Georisk). If an unauthorised third party comes into possession of this report they rely on it at their peril and the authors owe them no duty of care and skill.

The report should be read in its entirety, including all associated drawings and appendices. Georisk cannot be held responsible for any misinterpretations arising from the use of extracts that are taken out of context.

The findings and opinions conveyed in this report are based on information obtained from a variety of sources as detailed within this report and which Georisk believes is reliable. All reasonable care and skill has been applied in examining the information obtained, nevertheless, Georisk cannot and does not guarantee the authenticity or reliability of the information it has relied upon.

The report represents the findings and opinions of experienced geoenvironmental consultants. Georisk does not provide legal advice and the advice of lawyers may also be required.

Any recommendations made or opinions expressed in the Report are based on the exploratory hole records, an examination of samples and the results of the site and laboratory tests. No liability can be accepted for conditions not revealed by the exploratory holes particularly between positions. Whilst every effort is made to ensure accuracy of data supplied any opinion expressed as to the possible configuration of strata between or below investigation locations is for guidance only and no responsibility is accepted as to its accuracy.

Unless otherwise specifically stated, this report assumes that ground levels will not change significantly from those existing at present and that the proposed development will be of two to three storey construction. If this is not to be the case, some modifications to this report may be required.

The groundwater conditions entered on the borehole records and from any monitoring programme are those observed at the time of the investigation. Groundwater levels are susceptible to seasonal fluctuations and may be higher during wetter periods than those encountered during this investigation.

Where the report refers to the potential presence of invasive plant species, such as Japanese Knotweed, or the presence of possible asbestos containing materials, it should be noted that the observations are for information purposes only and should be verified by a suitably qualified expert.

Georisk reserves the right to amend the conclusions and recommendations made in this report in the light of any further or more detailed information that may become available.

**PHASE I
DESK STUDY**

**LAND AT OVERTON-ON-DEE
WREXHAM**

1. INTRODUCTION

- 1.1 Georisk Management Limited (Georisk) has been commissioned by Pickstock Homes Limited (Pickstock) to carry out a Phase I Desk Study of a potential development site located to the east of Overton-on-Dee near Wrexham.
- 1.2 It is understood that the site is being considered for residential development and; therefore, the principal aims of this report are as follows:
- to carry out Phase I hazard identification and assessment (desk study) including determination of an initial conceptual model based on 'source-pathway-target' principles;
 - to identify any potential constraints associated with the development of the site for the proposed end use;
 - to identify any potential geoenvironmental related issues that would result in abnormal development costs.
- 1.3 This report presents the findings of the desk study research together with an initial conceptual model and assessment of any potential geoenvironmental constraints that would need consideration for the proposed future development of the site.

2. INFORMATION SOURCES

- 2.1 The information sources used in the production of this report were as follows:
- appraisal of current site layout and conditions;
 - review of British Geological Survey (BGS) maps and publications;
 - review of available historical County Series and Ordnance Survey maps;
 - review of information contained within public domain environmental databases maintained by the Local Authority and Environment Agency (EA), as presented in a Landmark Envirocheck Report dated July 2019;
 - 'Site Location Plan' by J-Ross Developments Limited, drawing No. 1522_F_GA_01, dated November 2015.

3. REFERENCE SOURCES

- 3.1 This report has been prepared with regard to the following sources of reference, advice and guidance, supplemented with experience of similar sites:
- *National Planning Policy Framework: Chapters 11 and 15. Ministry of Housing, Communities and Local Government (2019);*
 - *Investigation of Potentially Contaminated Sites – Code of Practice. British Standards Institute BS10175 (2001);*
 - *Code of Practice for Site Investigations. BS5930 (2015);*
 - *Model Procedures for the Management of Land Contamination. CLR11, DEFRA and EA (2004);*

- *Guidance for the Safe Development of Housing on Land Affected by Contamination. R & D Publication 66, NHBC, Environment Agency and CIEH (2008);*
- *Radon: guidance on protective measures for new dwellings. BRE Report BR211 (2007);*
- *Code of practice for the characterization and remediation from ground gas in affected developments. BS8485 (2015+A1:2019);*
- *Guidance on Evaluation of Development Proposals on sites where Methane and Carbon Dioxide are Present. NHBC report Edition No. 4 (2007).*

4. THE SITE

- 4.1 The site comprises land to the east of Overton-on-Dee and can be located approximately by National Grid Reference 337640, 342030. A site location plan is included in Appendix A.
- 4.2 It covers an area of approximately 8.8 hectares and is divided into four separate areas (A, B1(a), B1(b) and B2) which comprise undeveloped agricultural land lain to grass. A small pond is situated at the south-eastern extent of Area B2.
- 4.3 The town of Overton-on-Dee is to the west of the site with the western site boundary predominately formed by existing housing together with a school and bowling green and tennis courts to the south-west. The remaining boundaries are formed by undeveloped agricultural land.



View of Area A from the south-western corner looking east



View of Area A from the north-western corner looking south-east



View of Area B2 from the northern boundary looking south

4.4 No evidence or signs of potential significant contamination were observed during the site walkover.

5. SITE HISTORY

5.1 The history of the site and the surrounding area has been assessed by reviewing available historical County Series and Ordnance Survey maps. The maps studied, with the approximate site boundary shown, are included in Appendix B of this report and a summary is presented in Table 1.

Year	Site	Surrounding Area
1874	The site comprises undeveloped agricultural land separated by field boundaries and an unnamed road in the north. Farm buildings are present adjacent to the western boundary.	The site is mapped to the north-east of Overton within a predominantly agricultural area. There are several ponds surrounding the site the nearest located approximately 120 m to the south-east. Farm buildings are mapped within the surrounding area.
1899	A small pond is mapped in the south-eastern corner.	A small pond is mapped within 10 m of the north-eastern site boundary. Residential properties and farm buildings are mapped approximately 25 m and 100 m to the south and south-east are mapped to the south-east respectively.
1912	A small pond is mapped in the north-eastern corner.	A small pond is mapped adjacent to the southern site boundary.
1954	No significant changes are mapped.	No significant changes are mapped.
1964	No significant changes are mapped.	A mill with associated cranes and an electricity house are mapped approximately 150 m to the south-west. Further residential developments are mapped to the west and south-west within Overton.
1977	No significant changes are mapped.	New housing development is mapped to the west.
1981	No significant changes are mapped.	Further residential development is mapped adjacent to the north-western site boundary.
1991	The farm buildings are no longer mapped.	Further residential development is mapped to the west and south-west. Agricultural buildings are mapped to the north-east.
1994	No significant changes are mapped.	No significant changes are mapped.
2000	The pond in the north-east is no longer mapped.	No significant changes are mapped.
2006	No significant changes are mapped.	No significant changes are mapped.
2019	No significant changes are mapped.	No significant changes are mapped.

Table 1: Summary of Historical Land Usage

6. GEOENVIRONMENTAL SETTING

6.1 Geology and Mining

Geology

- 6.1.1 The geology of the site has been appraised from 1:50,000 scale digital mapping information published by the BGS and is shown to comprise Glaciofluvial Deposits (sand and gravel) overlying the Kinnerton Sandstone Formation (sandstone) of the Sherwood Sandstone Group of Triassic age.
- 6.1.2 Possible nominal and localised Made Ground should be anticipated associated with potential pond infill and former farm buildings in the north and west of Area B1(a).

Mining

- 6.1.3 The 'Interactive Map Viewer' on The Coal Authority website indicates the site lies outside a 'Coal Mining Reporting Area' and; therefore, no further assessment is required in respect of this potential constraint.

6.2 Hydrology

- 6.2.1 The nearest surface watercourse to the site is a drain located adjacent to a field boundary approximately 125 m to the north.
- 6.2.2 The EA has no records of any licensed surface water abstractions within 250 m of the site.
- 6.2.3 The EA has records of 1 No. licensed discharge consent within 250 m of the site. Natural Resources Wales are licensed to discharge sewage discharges (final/treated effluent) to land approximately 90 m to the south-east.
- 6.2.4 Based on information provided by the EA, included in the Envirocheck Report, the site is not in an area likely to be at risk from river flooding.

6.3 Hydrogeology

- 6.3.1 The Glaciofluvial Deposits are classified by the EA as a 'Secondary A' aquifer, which are defined as '*permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers*'.
- 6.3.2 The Kinnerton Sandstone Formation is classified by the EA as a 'Principal' aquifer, which are defined as '*layers of rock or drift deposits that have high intergranular and/or fracture permeability - meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale. In most cases, principal aquifers are aquifers previously designated as major aquifer*'.
- 6.3.3 The EA has records of a licensed groundwater abstraction located on site. Groundwater is licensed to be abstracted from a well on the eastern site boundary of area B1(a) for general farming and domestic use. This appears to be associated with the farm buildings mapped on the western boundary from pre-1874 until 1991.
- 6.3.4 The EA has no records of any other licensed groundwater abstractions within 250 m of the site.

6.3.5 The site is not mapped by the EA within a groundwater Source Protection Zone.

6.4 Waste Management

6.4.1 The EA has no records of any active licensed waste management facilities (landfills) within 250 m of the site.

6.4.2 The EA and LA have no records of any historical/registered landfills within 250 m of the site.

6.4.3 The Envirocheck Report has records of 3 No. potentially infilled ground (water) within 250 m of the site, with the nearest located approximately 70 m to the north-west, all of which are recorded to have been infilled by 1954.

6.5 Pollution

6.5.1 The EA has no records of any significant or major pollution incidents to controlled waters within 250 m of the site.

6.5.2 The EA website does not identify any sites within 250 m of the study area that are potential pollution hazards or potential sources of industrial pollution and regulated under the EC Integrated Pollution Prevention and Control Directive (IPPC).

6.6 Radon

6.6.1 Information provided by the BGS and contained in the Envirocheck Report indicates that radon protective measures are not required for a new housing development at the site.

6.7 Supporting Information

6.7.1 The Landmark Envirocheck supporting information is included in Appendix C.

7. INITIAL CONCEPTUAL MODEL AND INVESTIGATION STRATEGY

7.1 Environmental Setting

7.1.1 Based on the findings of the Phase I Desk Study presented in Sections 4 to 6 of this report, the environmental setting of the site can be summarised as follows:

- the site comprises land to the east of Overton-on-Dee and can be located approximately by National Grid Reference 337640, 342030;
- it covers an area of approximately 8.8 hectares and is divided into four separate areas (A, B1(a), B1(b) and B2). It comprises parcels of undeveloped agricultural land lain to grass. A small pond is situated at the south-eastern extent of Area B2;
- the town of Overton-on-Dee is to the west of the site with the western site boundary predominately formed by residential development together with a school and bowling green and tennis courts to the south-west. The remaining boundaries are formed by undeveloped agricultural land;
- no evidence or signs of potential significant contamination were observed during the site walkover;
- historical maps show the site has remained undeveloped since at least the early 1870's. Surrounding land use has been predominantly agricultural to the north, south and east with gradual residential development to the west;
- the geology of the site is expected to comprise Glaciofluvial Deposits (sand and gravel) overlying the Kinnerton Sandstone Formation (sandstone) of the Sherwood Sandstone Group of Triassic age;

- the site is not in an area affected by past coal mining activities;
- the Glaciofluvial Deposits are classified by the EA as a 'Secondary A' aquifer;
- the Kinnerton Sandstone Formation is classified by the EA as a 'Principal' aquifer;
- the nearest surface watercourse to the site is a drain located adjacent to a field boundary approximately 125 m to the north;
- the EA has no records of any licensed surface water abstractions within 250 m of the site;
- the EA has records of 1 No. licensed discharge consent within 250 m of the site. Natural Resources Wales are licensed to discharge sewage discharges (final/treated effluent) to land approximately 90 m to the south-east
- the EA indicate the site is not in an area likely to be at risk from river flooding;
- the EA has records of a licensed groundwater abstraction located on site. Groundwater is licensed to be abstracted from a well on the eastern site boundary of area B1 (a) for general farming and domestic use;
- the EA has no records of any other licensed groundwater abstractions within 250 m of the site;
- the site is not mapped by the EA within a groundwater Source Protection Zone;
- the EA and LA have no records of any active or historical landfills within 250m of the site;
- radon protection is not required for the proposed development.

7.2 Initial Conceptual Site Model and Preliminary Risk Assessment

General

7.2.1 The initial conceptual model and preliminary risk assessment are based on information derived from the desk study to provide a qualitative assessment of risk posed to human health and environmental receptors from potential on and off-site sources of contamination as defined within Part IIA of the Environmental Protection Act (1990). For a significant risk to exist, it must be established that contamination has the potential to cause harm to susceptible targets. This is known as "pollutant linkage" and requires three criteria to be identified at a significant level:

- the presence of substances that may cause harm (SOURCE);
- the presence of a receptor which may be harmed (TARGET);
- the existence of a plausible pollutant linkage between the source and the target (PATHWAY).

7.2.2 EA R&D66 (2008) includes a risk classification system based on classification of consequence and probability. Table 2 shows a risk matrix, in which the likelihood or probability of each pollutant linkage being realised is ranked against the severity of the consequences. The result is the risk classification, based upon which risk management actions can be implemented. The individual sources, pathways and receptors identified are assessed against this risk matrix; potential pollutant linkages and associated risks are recorded.

		Severity of Consequence			
		Severe	Medium	Mild	Minor
Probability of pollutant linkage	High Likelihood	Very high risk	High risk	Moderate risk	Moderate / low risk
	Likely	High risk	Moderate risk	Moderate / low risk	Low risk
	Low Likelihood	Moderate risk	Moderate / low risk	Low risk	Very low risk
	Unlikely	Moderate / low risk	Low risk	Very low risk	Very low risk

Table 2: Risk Matrix

7.2.3 Definitions of risk terminology are as follows.

- 7.2.4 **Very high risk:** there is a probability that severe harm could arise to a designated receptor from an identified source, or there is evidence that severe harm to a designated receptor is currently occurring.
- 7.2.5 **High risk:** harm is likely to arise to a designated receptor from an identified source.
- 7.2.6 **Moderate risk:** it is possible that harm could arise to a designated receptor from an identified source. However, it is relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild.
- 7.2.7 **Low risk:** it is possible that harm could arise to a designated receptor from an identified source, but it is likely that this harm, if realised, would at worst normally be mild.
- 7.2.8 **Very low risk:** there is a low possibility that harm could arise to the receptor. In the event of such harm being realised it is not likely to be severe.
- 7.2.9 Professional judgement and experience has been used to estimate the combination of probability and consequence of the harm posed by the pollutant linkages identified. This allows the risk to be evaluated on a qualitative basis. The risk category is used to prioritise /target the site investigation. Using this matrix and the available screening limits it has been possible to carry out a semi-quantitative risk assessment for the sources, pathways and receptors which have been identified at the site.
- 7.2.10 The initial conceptual model also illustrates the contaminants of concern identified from the contamination assessment and demonstrates the potential pathways and receptors which are considered likely to exist at the site. Contamination management options are also included, which indicate the most appropriate methods by which the identified risks can be mitigated.
- 7.2.11 Risk is based on a consideration of both:
- the likelihood of an event (probability); and
 - the severity of the potential consequences.
- 7.2.12 A pollutant linkage must be established before tests for probability and consequence are applied. If there is no pollutant linkage then there is no potential risk and there is no need to apply tests for probability and consequence. The risk assessment needs to include a logical and transparent system to define categories of severity of consequence and probability of occurrence. The initial conceptual model and preliminary risk assessment are discussed below.

Proposed Development

- 7.2.13 It is understood that the type of development proposed will be housing with private gardens together with hardstanding for access roads and parking.

Potential On-Site Sources of Contamination

- 7.2.14 Based on information derived from the Phase I Desk Study, the following potential significant on-site sources of contamination have been identified that could affect the proposed development:
- nominal localised Made Ground associated with potential pond infill and former farm buildings in the north and west of land Area B1(a);
 - hazardous soil-gases derived from any on-site Made Ground.

Potential Off-Site Sources of Contamination

- 7.2.15 Based on the information presented above, no plausible significant off-site sources of contamination have been identified that could affect the proposed development.
- 7.2.16 The Envirocheck Report identifies a number of infilled water features within 250 m of the site – these were recorded to have been infilled by 1954. The nature of the infill materials is unknown but may possibly be potentially hazardous soil-gas generating. Soil-gas (methane and carbon dioxide) production begins as soon as infill materials have been deposited, but anaerobic methane production only occurs when all available oxygen has been absorbed. Peak soil-gas production generally occurs about a year after deposition and thereafter gradually declines. Significant gas production is generally completed within about 20 years of deposition. Where gas production is slow, the period of significant gas production may extend for up to 40 years.
- 7.2.17 As these features were infilled over 60 years ago, it is considered highly unlikely that significant levels of soil-gas are still being generated and the level of risk to the development is very low/negligible.

Targets/Receptors

- 7.2.18 The following site-specific targets need to be considered:
- long term site users – residents;
 - site workers – construction personnel involved in development works;
 - building fabric and foundations;
 - plant life – landscaped or garden areas;
 - controlled waters – on-site licensed groundwater abstraction;
 - controlled waters - Glaciofluvial Deposits classified as a 'Secondary A' aquifer;
 - controlled waters - Kinnerton Sandstone Formation classified as a 'Principal Aquifer'.

Pathways

- 7.2.19 The potential pathways that are considered relevant to this site are as follows:
- direct contact with and/or incidental ingestion of any contaminated soil or dusts derived from contaminated soil;
 - consumption of homegrown produce;
 - inhalation of dust derived from any contaminated soil;
 - migration of hazardous soil-gases via permeable strata or via ducts/drains into confined spaces;
 - direct contact between contaminated soils and building substructures;
 - vertical/lateral migration of mobile contaminants into controlled waters receptors.

Pollutant Linkages

7.2.20 Based on the 'source-pathway-target' information presented above, the following potential pollutant linkages have been identified at the site:

Source	Pathway	Target	Consequence	Probability	Risk
Possible contamination within near-surface soil	Dermal contact	Site user: female child 0-6 years	Mild	Unlikely	Very low
		Site construction worker	Minor	Unlikely	Very low
	Ingestion	Site user: female child 0-6 years	Mild	Unlikely	Very low
		Site construction worker	Minor	Unlikely	Very low
	Consumption of home-grown vegetables	Site user: female child 0-6 years	Mild	Unlikely	Very low
	Ingestion of soil attached to home-grown produce	Site user: female child 0-6 years	Mild	Unlikely	Very low
	Dermal contact with dust derived from contaminated soil	Site user: female child 0-6 years	Mild	Unlikely	Very low
		Site construction worker	Minor	Unlikely	Very low
	Ingestion of dust derived from contaminated soil	Site user: female child 0-6 years	Mild	Unlikely	Very low
		Site construction worker	Minor	Unlikely	Very low
	Inhalation of dust derived from contaminated soil	Site user: female child 0-6 years	Mild	Unlikely	Very low
		Site construction worker	Minor	Unlikely	Very low
	Migration of mobile contaminants	Controlled waters	Minor	Unlikely	Very low
	Direct contact	Buildings	Minor	Unlikely	Very low
	Direct contact	Water supply pipework	Minor	Unlikely	Very low

Table 3: Pollutant Linkages

7.2.21 Based on the known previous land usage of the site and surrounding area, the identified pollutant linkages and geological setting, it is considered that the site represents a **very low** risk to controlled waters. No further assessment of risk to controlled waters is considered necessary unless significant contamination is identified at the site.

7.2.22 Based on the proposed end use of the site, the site is considered to represent a **very low** risk to human health, which should be assessed through a programme of chemical testing and risk assessment in accordance with current guidance (CLEA).

Potential Contaminants of Concern

7.2.23 The following potential contaminants are considered appropriate for the assessment of the site:

- selected toxic and phytotoxic metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel, selenium and zinc);
- speciated polyaromatic hydrocarbons (PAH);
- pH;
- sulphate;
- phenols;

- cyanide;
- asbestos – if Made Ground is encountered only.

8. DEVELOPMENT ISSUES

- 8.1 Based on the findings of the desk study presented in Sections 4 to 6 of this report, and the resultant Initial Conceptual Site Model that has been designed (Section 7), no significant ground constraints have been identified that would detrimentally affect development of the site. The following comments are made in respect of typical ground related issues that will need consideration as part of the proposed development scheme.

Mining

- 8.2 The site is not located within a 'Coal Mining Reporting Area' and; therefore, no further action is considered necessary in respect of this potential development constraint.

Foundations

- 8.3 The key factors that will dictate foundation design are:

- competence of near-surface natural soil;
- thickness of any Made Ground;
- groundwater levels.

- 8.4 The geology at the site is anticipated to comprise Glaciofluvial Deposits overlying the Kinnerton Sandstone Formation of the Sherwood Sandstone Group of Triassic age.

- 8.5 The proposed development is anticipated to comprise traditional low-rise housing and if competent natural soil is present at shallow depth, the use of strip/trench fill foundations should be viable for the development.

- 8.6 The Glaciofluvial Deposits and Kinnerton Sandstone Formation are typically granular and non-shrinkable and; therefore, tree influence would not be of concern – this would need to be confirmed by a Phase II ground investigation. If the near-surface geology is non-shrinkable, a minimum founding depth of 0.6 m could be adopted and tree influence would not be a concern; however, if the near-surface soils are shrinkable, a minimum founding depth would need to be adopted dependent upon the volume change potential of the soil and also foundations may need to be deepened near any trees or hedgerows in accordance with NHBC Standards Chapter 4.2 'Building near Trees'. Where foundation depths exceed 2.5 m, a piled foundation is usually required.

- 8.7 If any new foundations are constructed in shrinkable soil and within the zone of influence of trees or hedgerows, a suspended floor slab would be required, otherwise, a cast in situ suspended floor slab design or ground bearing slab (if ground conditions permit) could be adopted.

- 8.8 In the unlikely event that competent natural soil is not present at shallow depth, consideration would then need to be given to an alternative abnormal foundation solution, such as piling or ground improvement.

- 8.9 The presence of the former well/groundwater abstraction point in the west of the site will also need to be confirmed and, if located, appropriate measures taken to decommission and infill and cap – the development layout may also need to accommodate the well by avoiding plots being located directly above it.
- 8.10 Foundation design requirements will need to be confirmed by a ground investigation tailored to the development layout to meet Local Authority Build Control and/or NHBC requirements.

Contamination – Human Health Risk

- 8.11 The level of risk posed to human health is considered very low, which should be assessed through a programme of chemical testing and risk assessment in accordance with current guidance (CLEA). It is considered; however, that in the unlikely event that contamination within the near-surface soil profile is identified, it could be mitigated by adopting a suitable remedial strategy, such as the localised removal of the contaminated soil or provision of clean topsoil in gardens, to achieve safe redevelopment of the site.

Contamination – Controlled Waters

- 8.12 It is considered that the proposed new development represents a very low risk to controlled waters and no further assessment of risk to controlled waters is considered necessary.

Soil Gas

- 8.13 Potential sources of soil-gas have been identified and the risks associated with hazardous soil-gases will need to be assessed as part of a future Phase II investigation at the site.
- 8.14 Radon protection would not be required for the proposed development at the site.

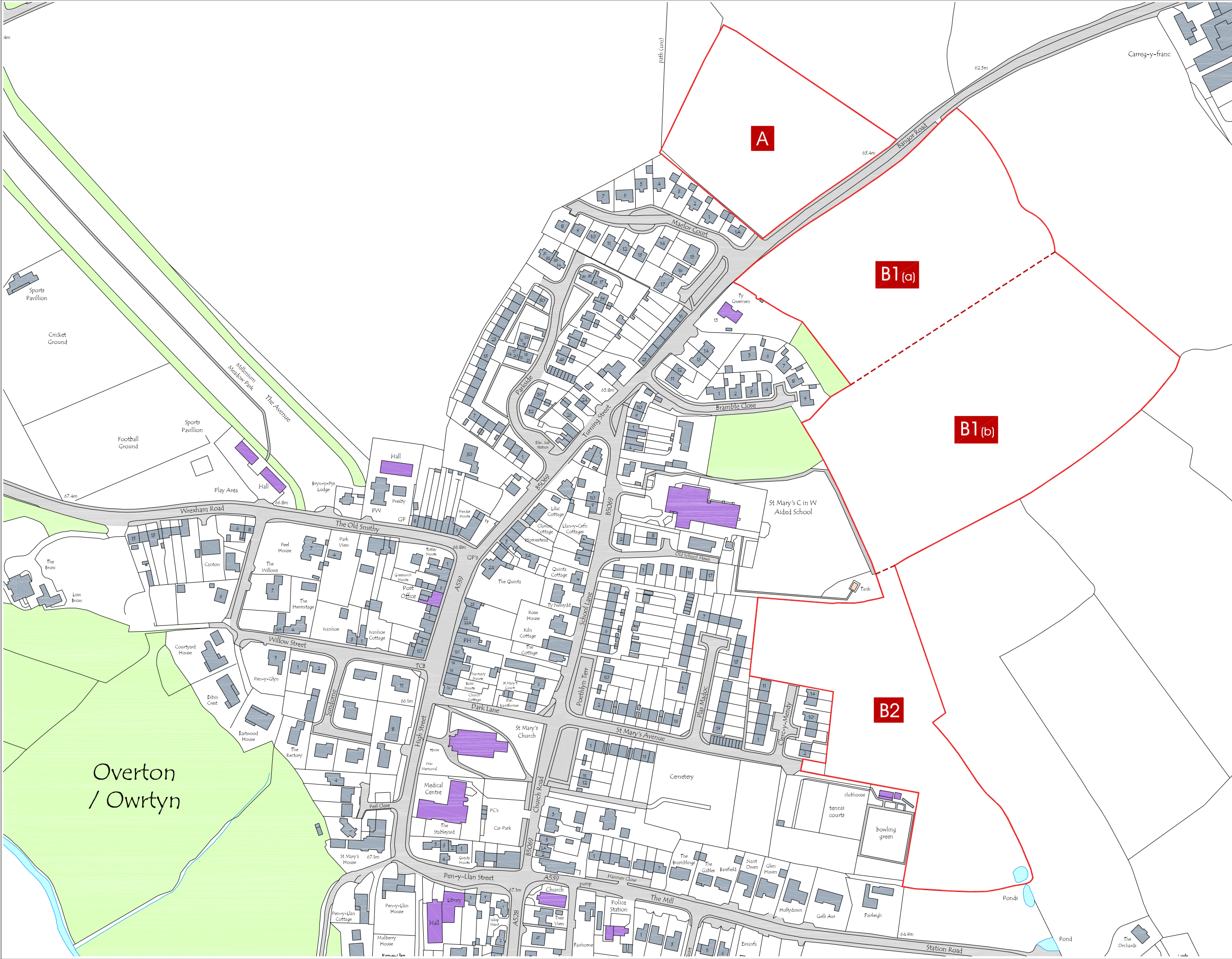
Soakaways

- 8.15 The near-surface geology is anticipated to comprise Glaciofluvial Deposits (sand and gravel) overlying weathered Kinnerton Sandstone Formation. On this basis, the use of soakaway drainage may be viable and this should be confirmed by BRE:365 compliant testing as part of a Phase II ground investigation.

9. FURTHER WORK

- 9.1 To address the potential geoenvironmental issues outlined above, a Phase II investigation is considered necessary for design purposes. In addition to addressing contamination issues at the site, it should also provide sufficient information to facilitate the engineering design of the proposed development. It should address the following issues:
- determine extent and nature of any Made Ground;
 - characterise nature of near-surface natural soil/groundwater beneath the site;
 - infiltration testing in accordance with BRE:365 (2016);
 - assess soil contamination and include a site-specific assessment of risk to human health;
 - establish soil-gas regime at the site;
 - provide geotechnical design parameters for foundation design purposes.

**APPENDIX A
SITE LOCATION PLAN**



NOTES

Do not scale. All figured dimensions in mm and to be checked on site.
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This drawing does not form part of a contract and is subject to change at developer's discretion.

N

Site Areas
(approximate)

A

3.32 Acres

B1(a)

5.39 Acres

B1(b)

7.89 Acres

B2

4.82 Acres

Total21.42 Acres

rev.	description	date	by

status.

Feasibility Stage

J-ROSS

DEVELOPMENTS LTD

17 Mile Oak | Massbury Road | Oswestry | Shropshire | SY10 8GA
Tel: +44 (0)1691 670 788
Email: enquiries@jrossdevelopments.co.uk
www.jrossdevelopments.com

project.

Residential Development
Overton on Dee, Near Wrexham

drawing title

Site Location Plan

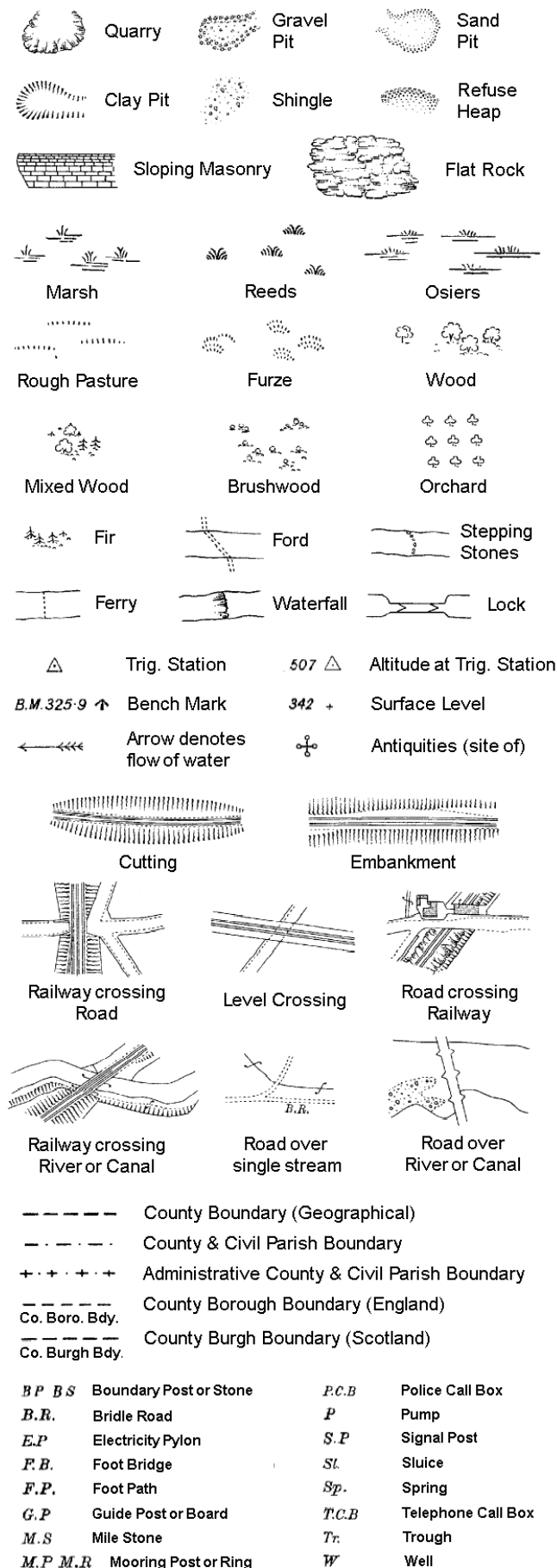
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1:2500 @ A3	26.11.15	OWH

dwg no	rev
1522_F_GA_01	

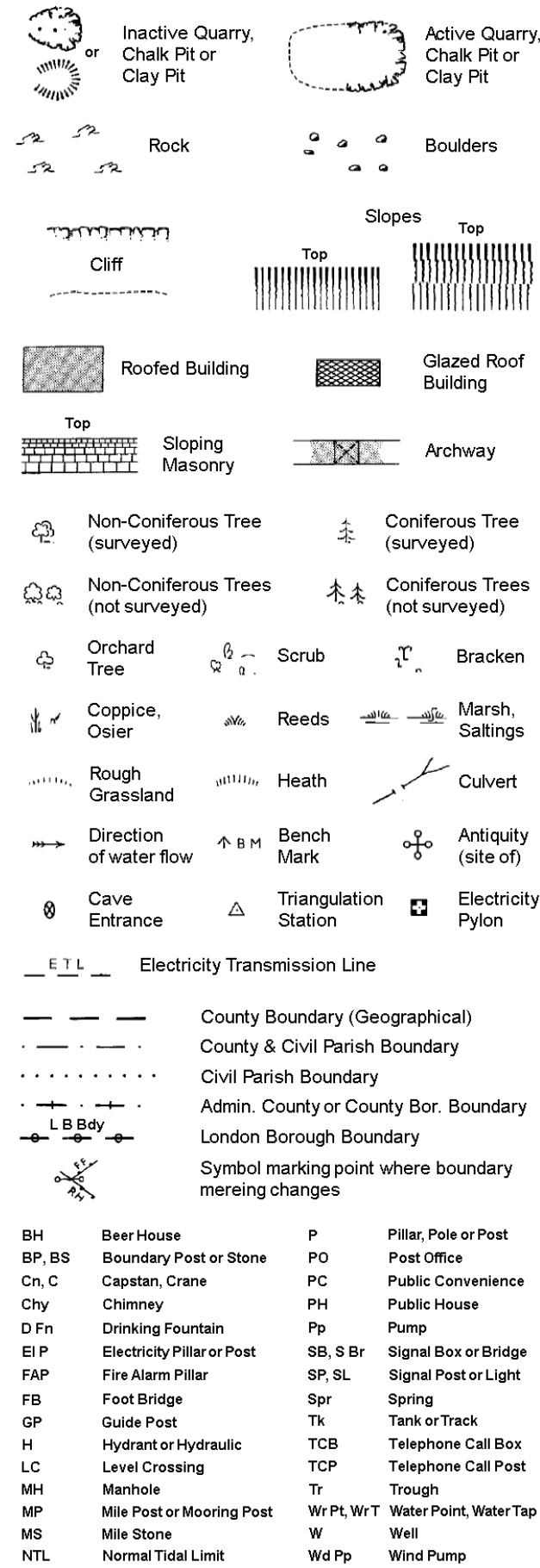
APPENDIX B
HISTORICAL MAP EXTRACTS

Historical Mapping Legends

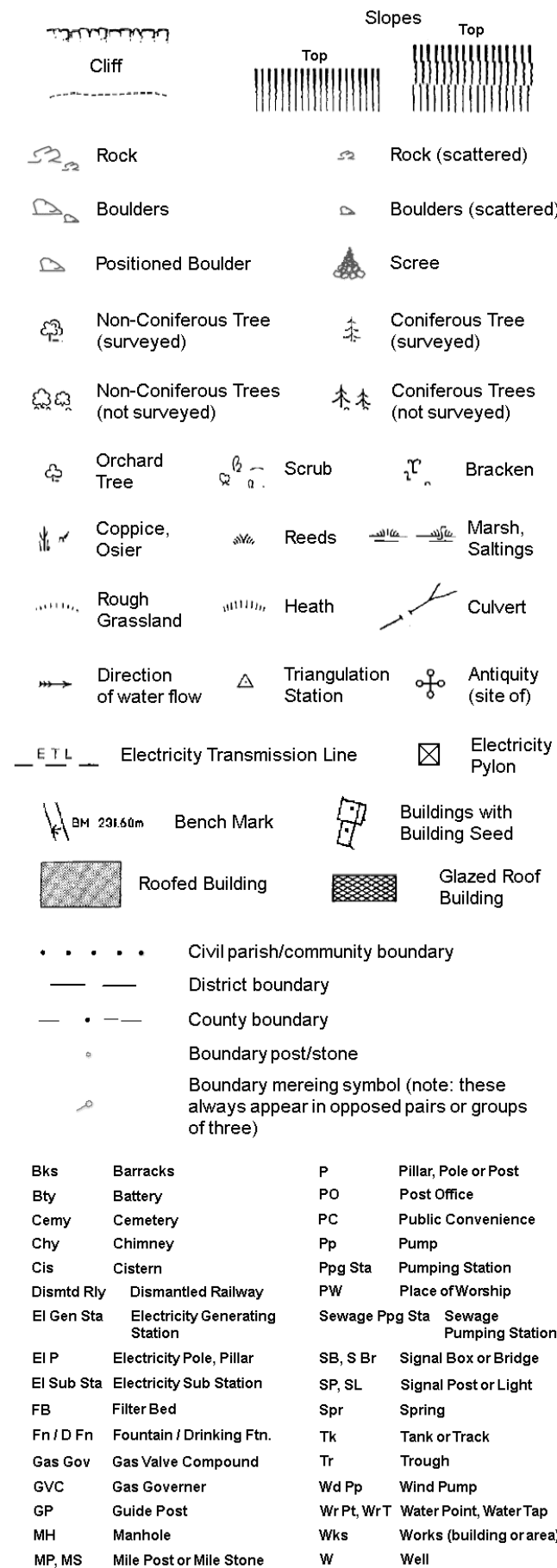
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



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



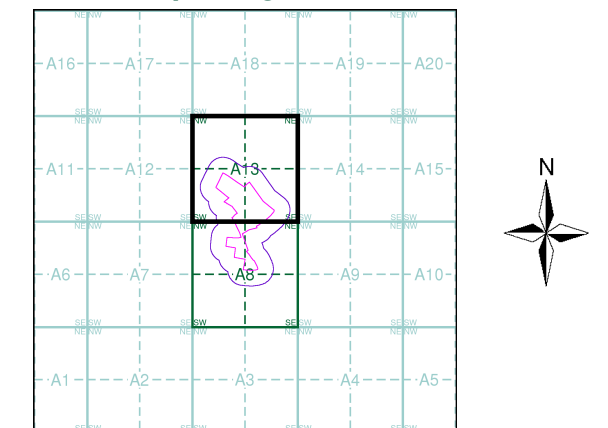
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Denbighshire	1:2,500	1872 - 1874	2
Flintshire	1:2,500	1873 - 1874	3
Flintshire	1:2,500	1899	4
Flintshire	1:2,500	1912	5
Denbighshire	1:2,500	1912	6
Ordnance Survey Plan	1:2,500	1964	7
Additional SIMs	1:2,500	1977	8
Additional SIMs	1:2,500	1991	9
Large-Scale National Grid Data	1:2,500	1994	10
Historical Aerial Photography	1:2,500	2001	11

Historical Map - Segment A13



Order Details

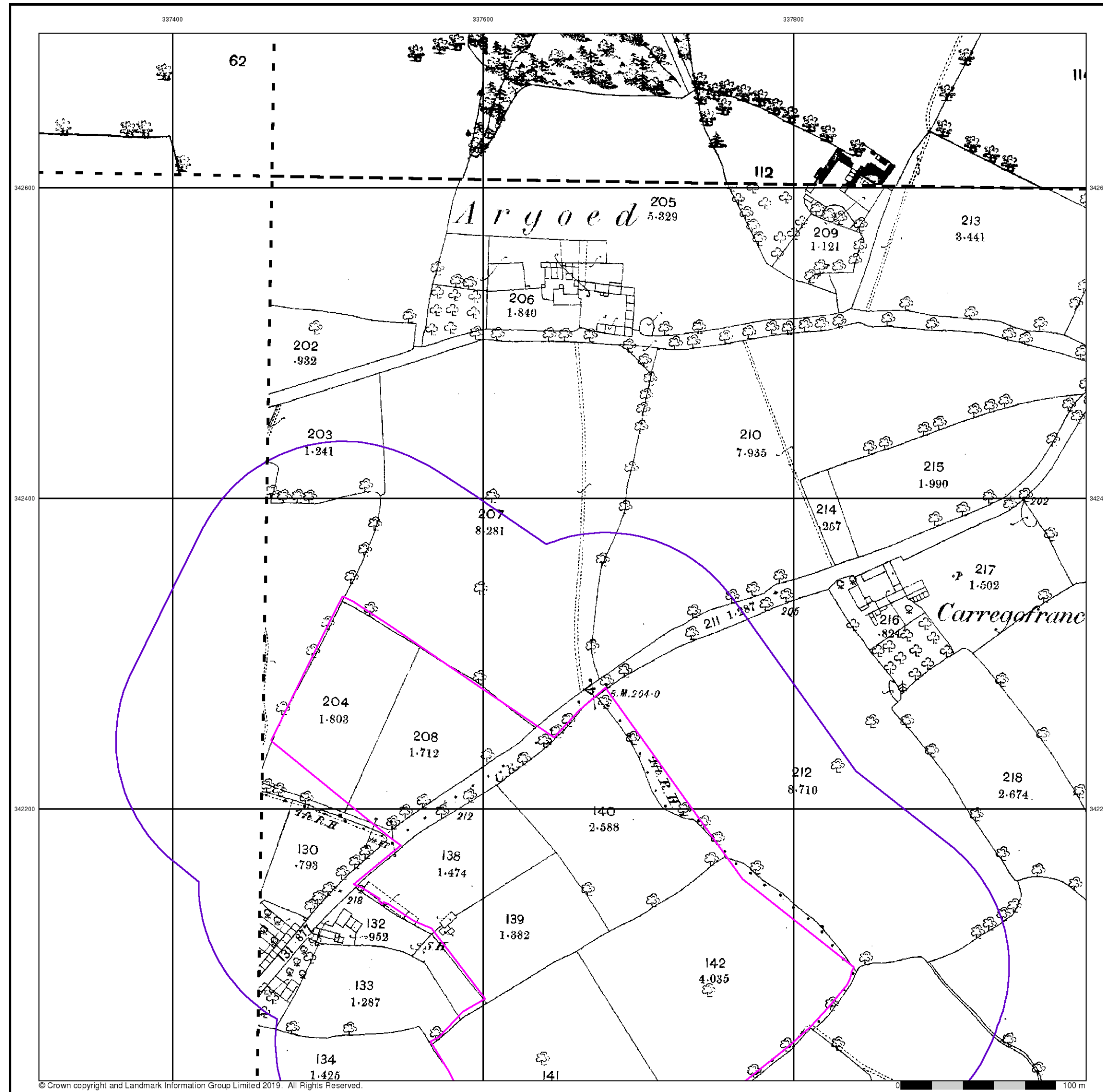
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National Grid Reference: 337640, 342030
Slice: A
Site Area (Ha): 8.82
Search Buffer (m): 100

Site Details

Overton-on-Dee, WREXHAM, LL13 0HE

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Flintshire

Published 1873 - 1874

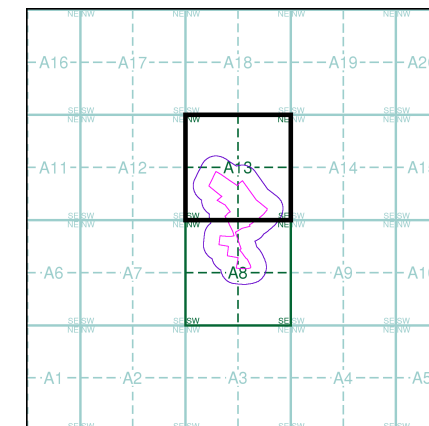
Source map scale - 1:2,500

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)

022_09 1873 1:2,500	022_10 1873 1:2,500
	022_14 1874 1:2,500

Historical Map - Segment A13



Order Details

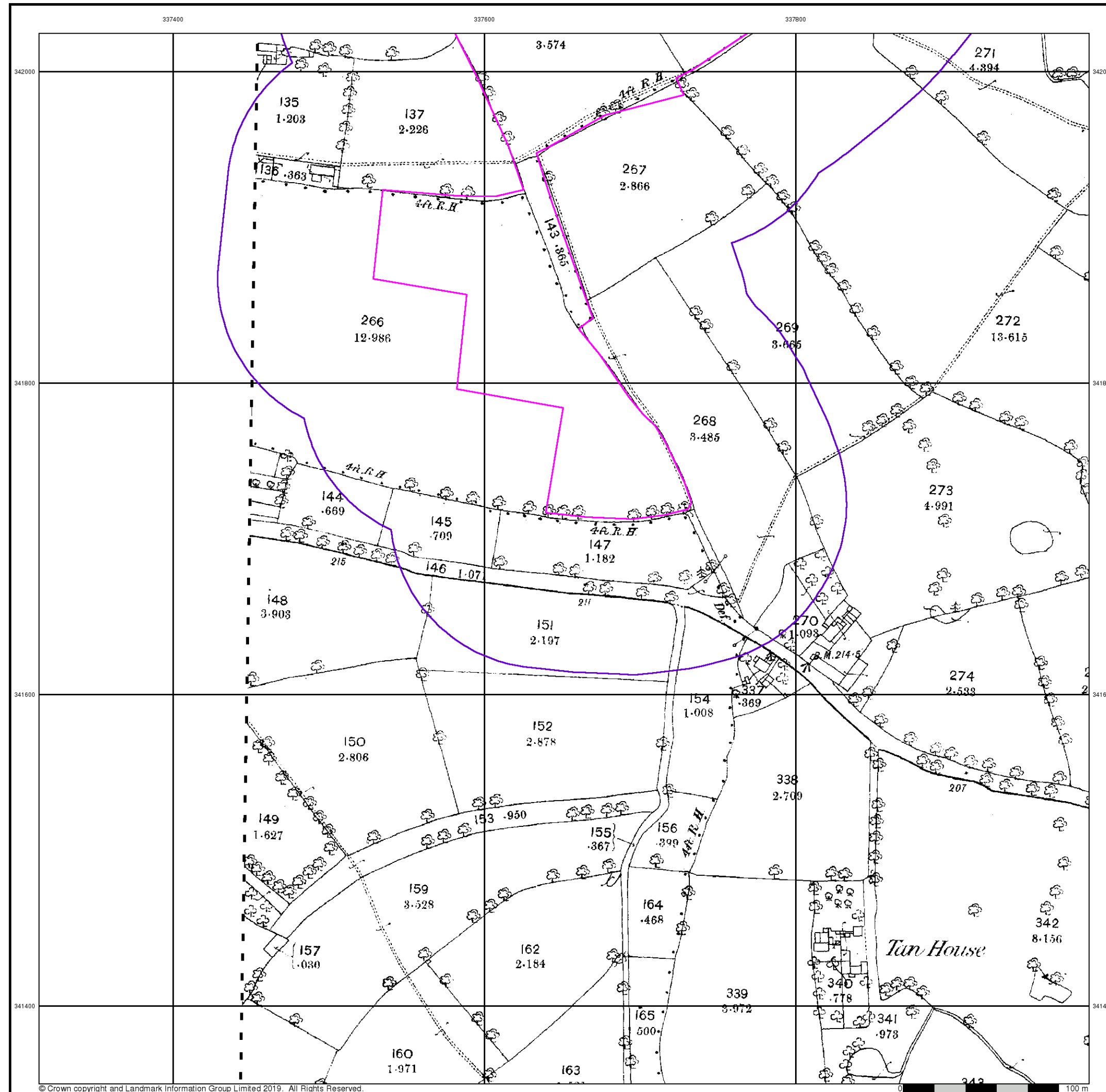
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Customer Ref: 19148
National Grid Reference: 337640, 342030
Slice: A
Site Area (Ha): 8.82
Search Buffer (m): 100

Site Details

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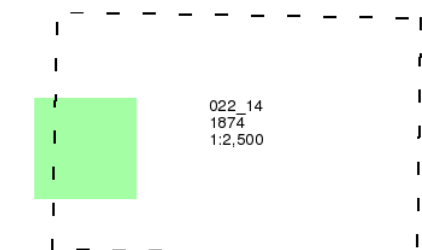
Flintshire

Published 1874

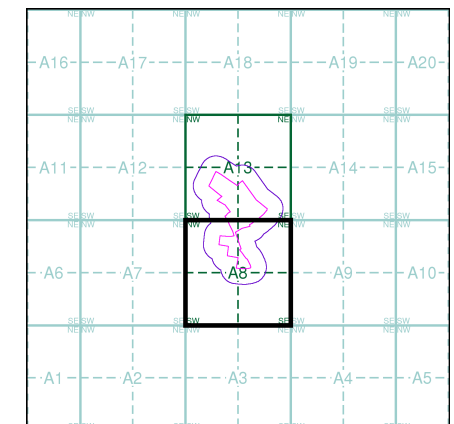
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered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

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

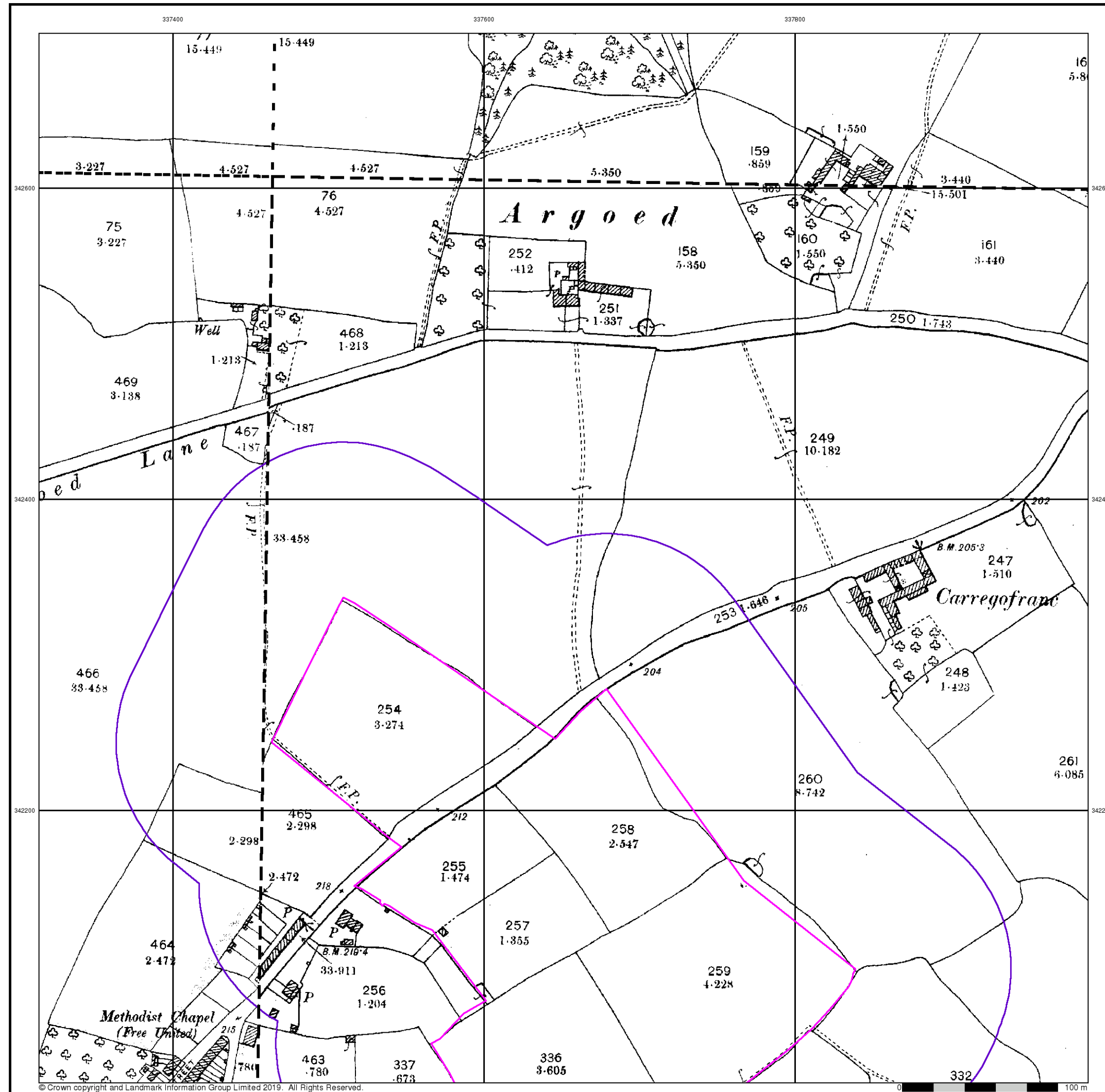
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Customer Ref: 19148
National Grid Reference: 337640, 342030
Slice: A
Site Area (Ha): 8.82
Search Buffer (m): 100

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Flintshire

Published 1899

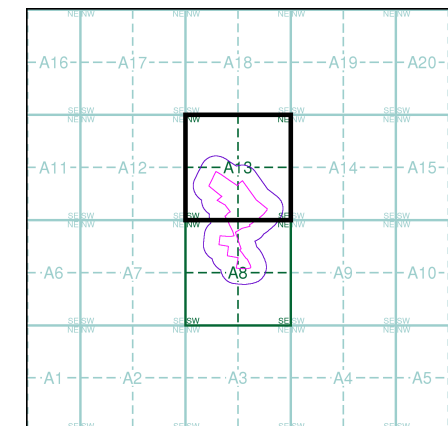
Source map scale - 1:2,500

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)

022_09 1899 1:2,500	022_10 1899 1:2,500
022_13 1899 1:2,500	022_14 1899 1:2,500

Historical Map - Segment A13



Order Details

Order Number: 212075919_1_1
Customer Ref: 19148
National Grid Reference: 337640, 342030
Slice: A
Site Area (Ha): 8.82
Search Buffer (m): 100

Site Details

Overton-on-Dee, WREXHAM, LL13 0HE

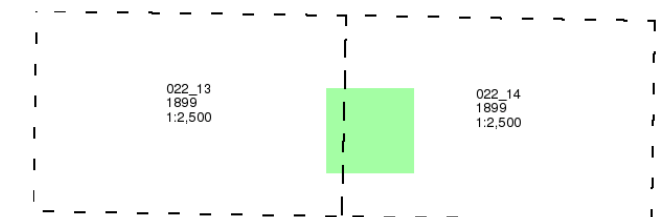
Flintshire

Published 1899

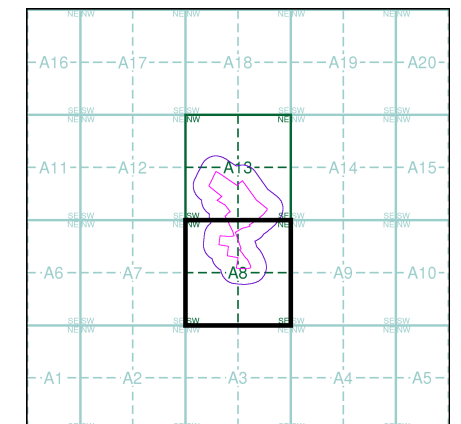
Source map scale - 1:2,500

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 A8

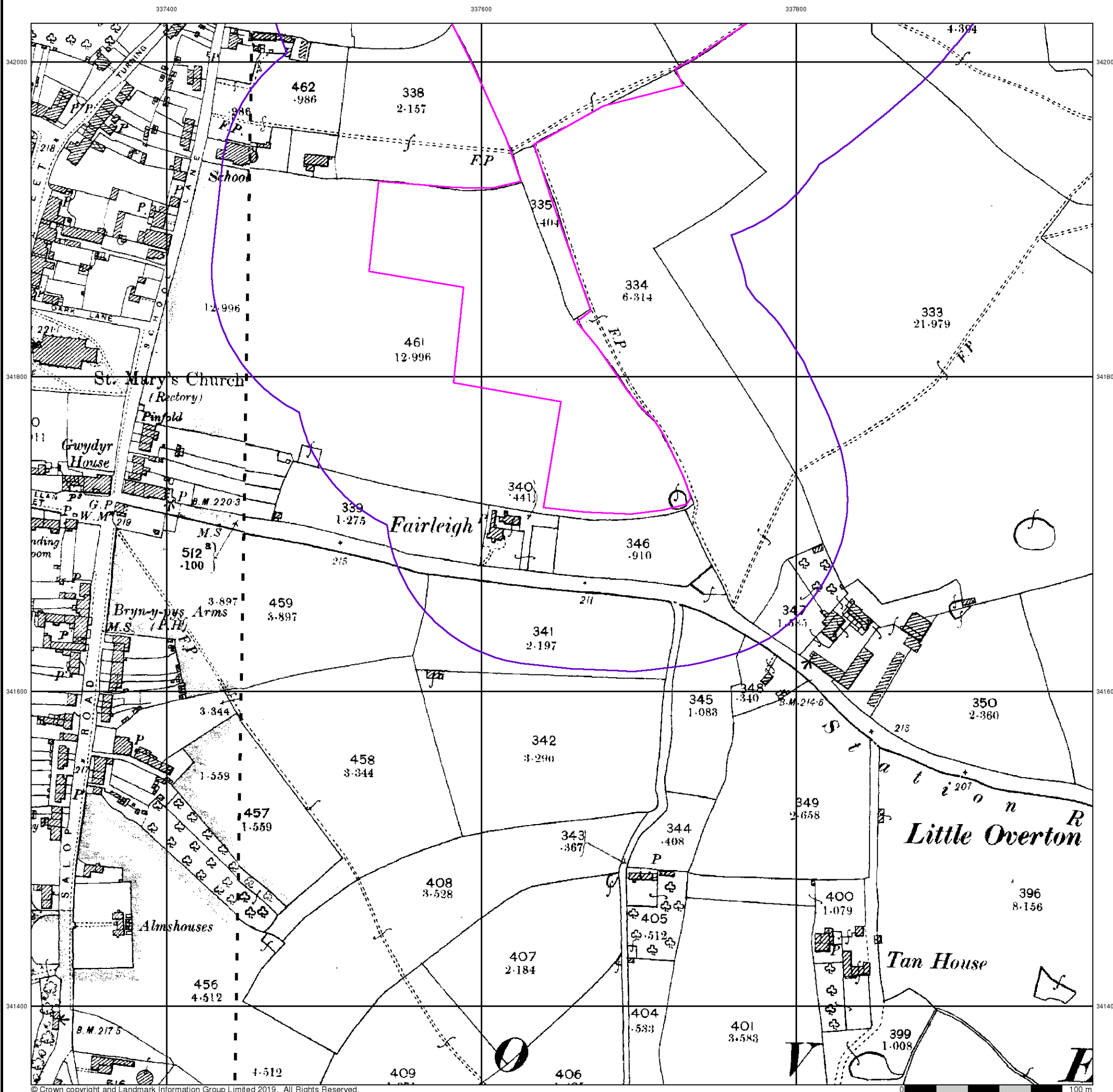


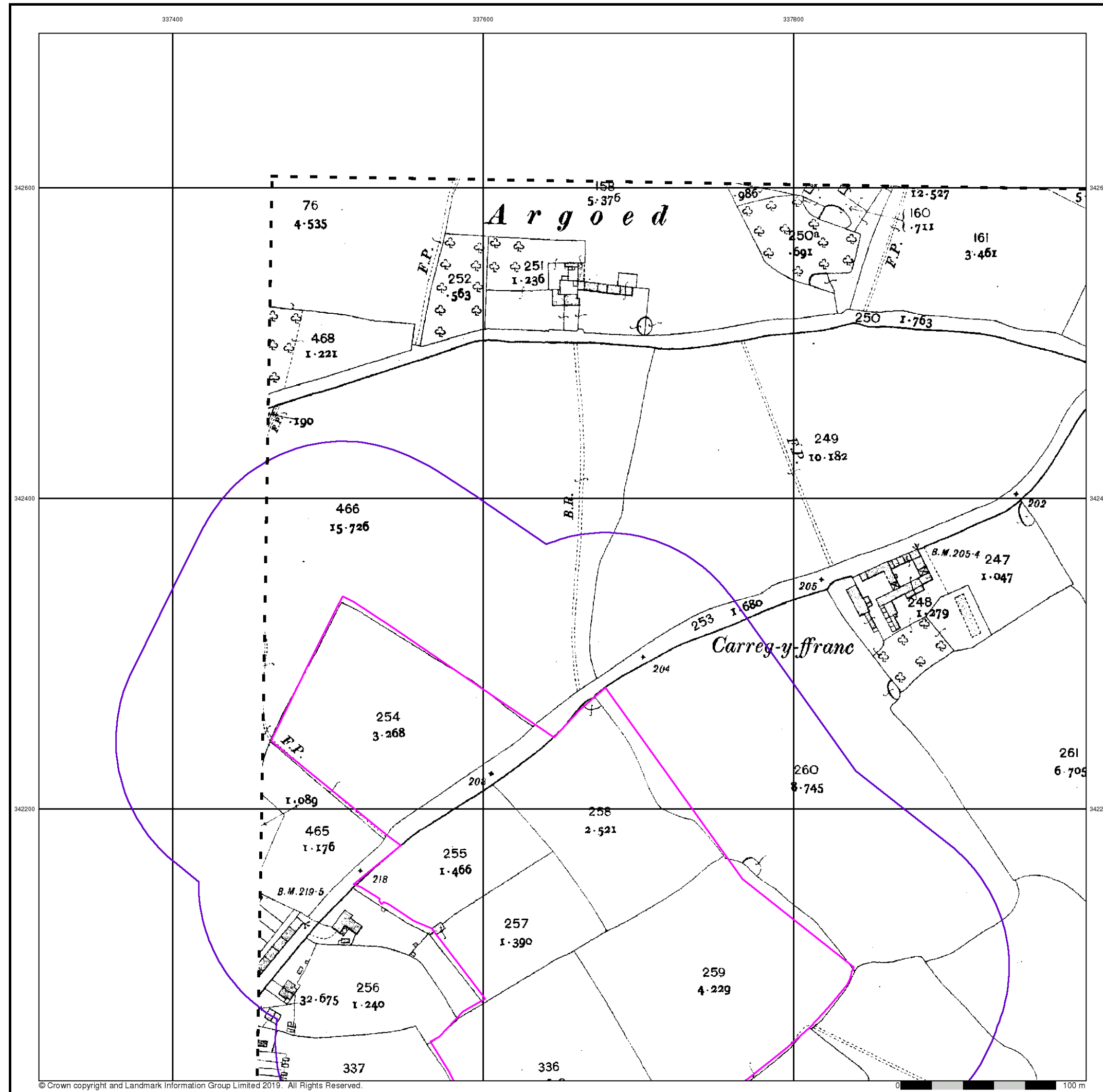
Order Details

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 Customer Ref: 19148
 National Grid Reference: 337640, 342030
 Slice: A
 Site Area (Ha): 8.82
 Search Buffer (m): 100

Site Details

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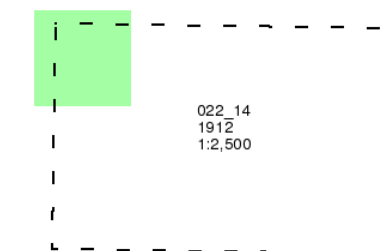
Flintshire

Published 1912

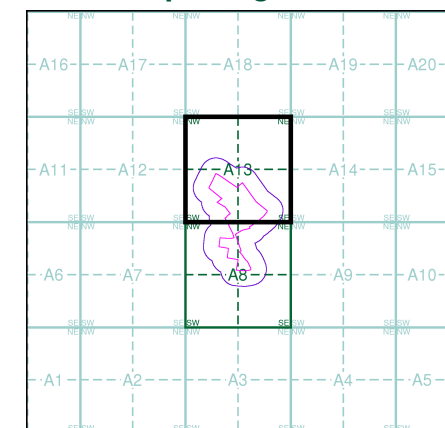
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

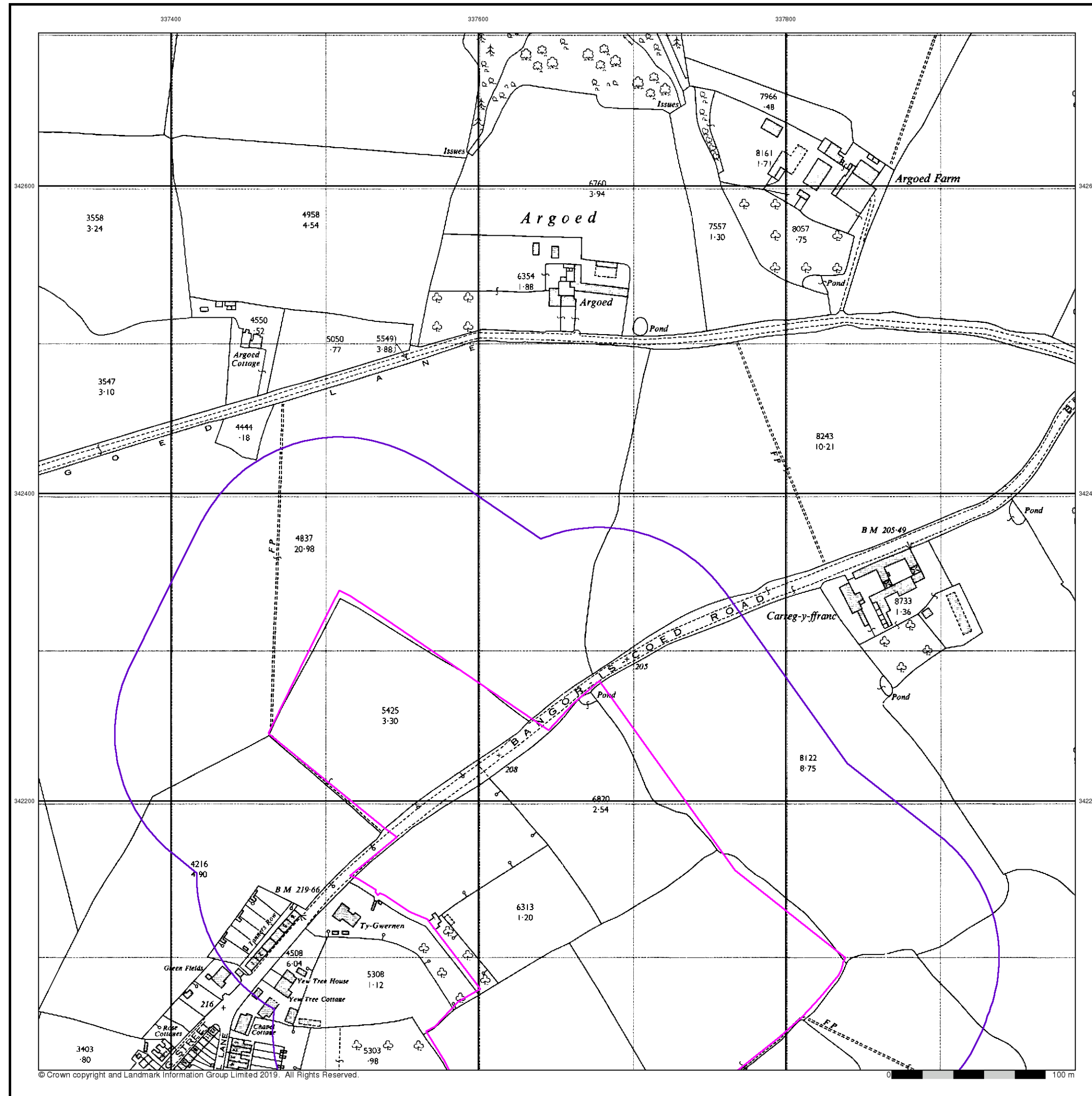
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National Grid Reference: 337640, 342030
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Site Area (Ha): 8.82
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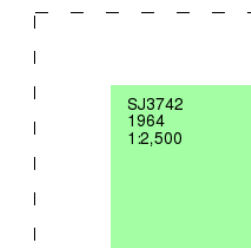
Ordnance Survey Plan

Published 1964

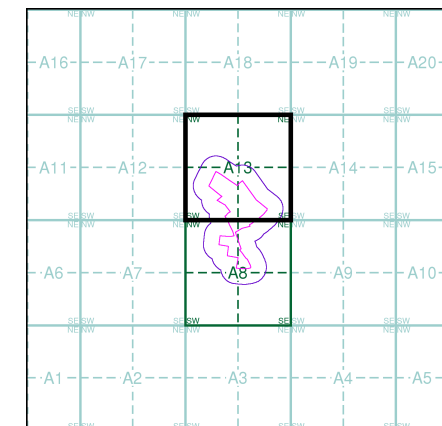
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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

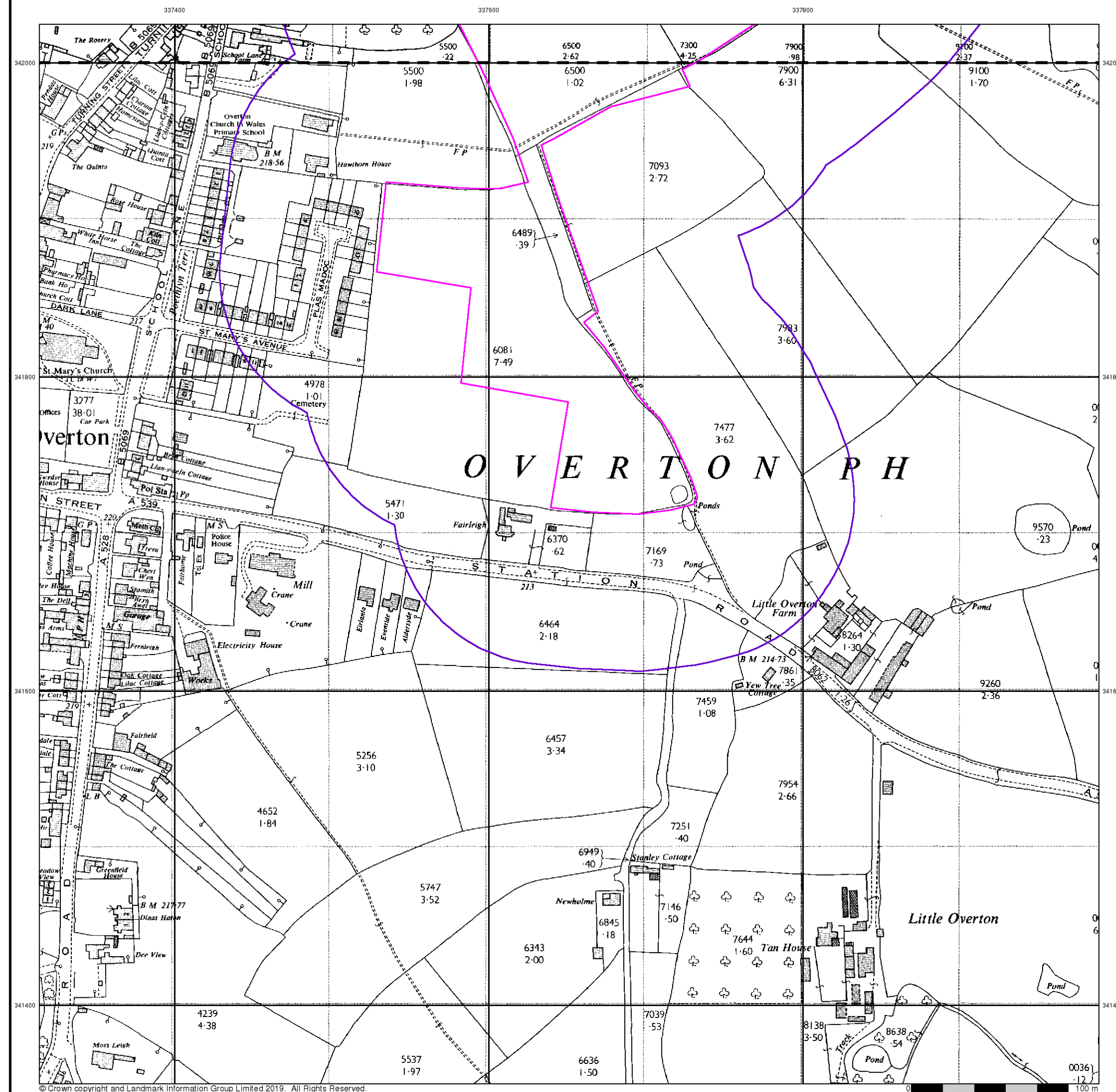
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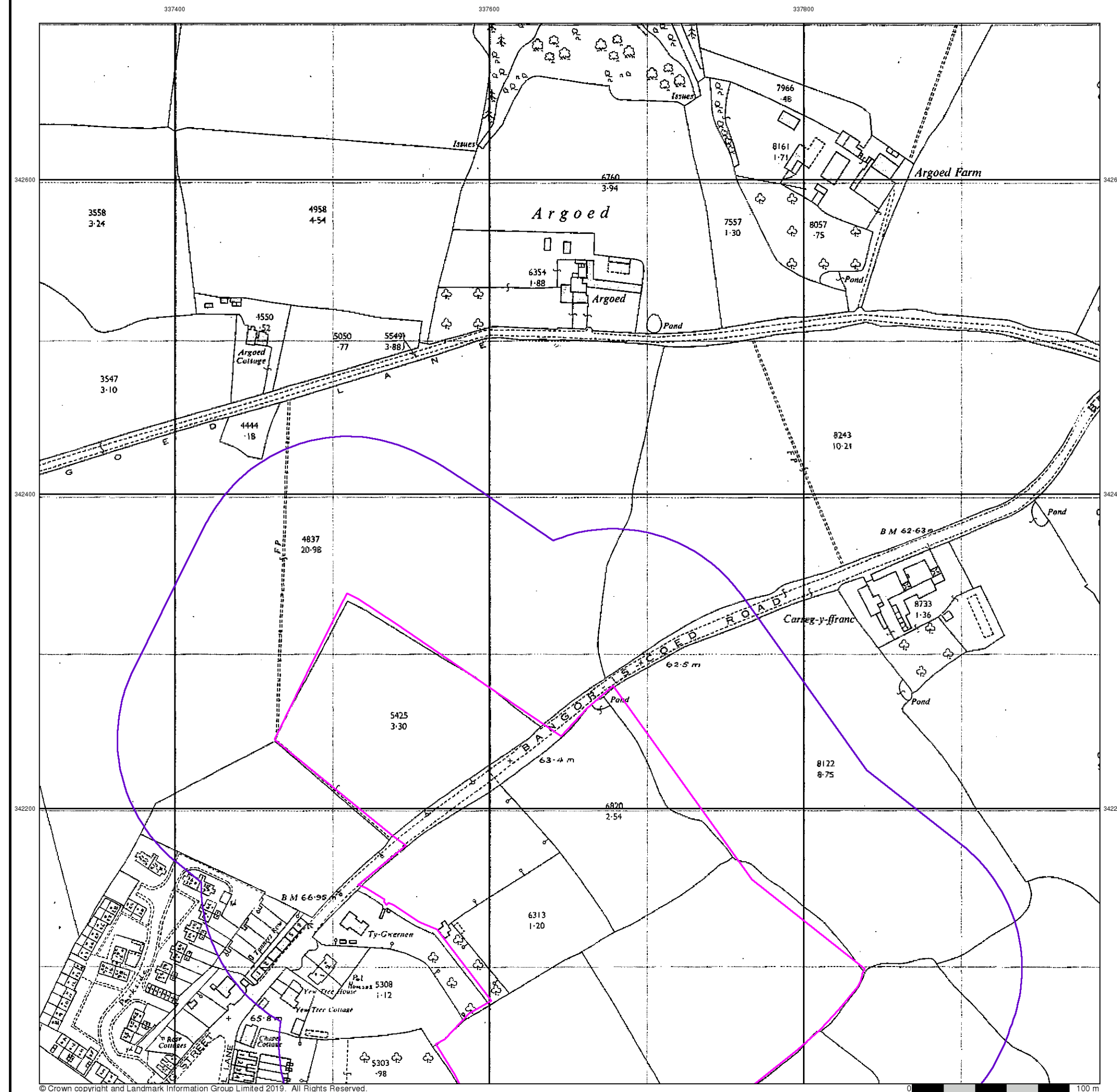
Site Details

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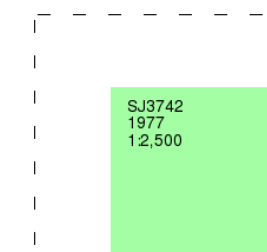
Additional SIMs

Published 1977

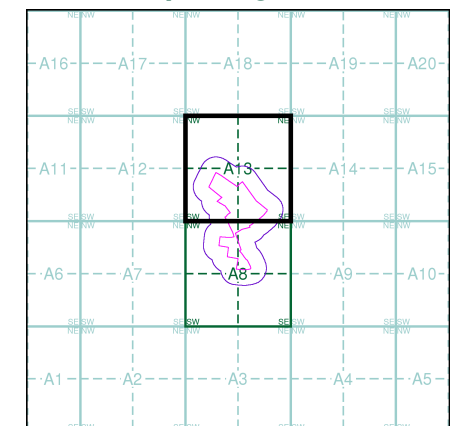
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 212075919_1_1
Customer Ref: 19148
National Grid Reference: 337640, 342030
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Additional SIMs

Published 1964 - 1977

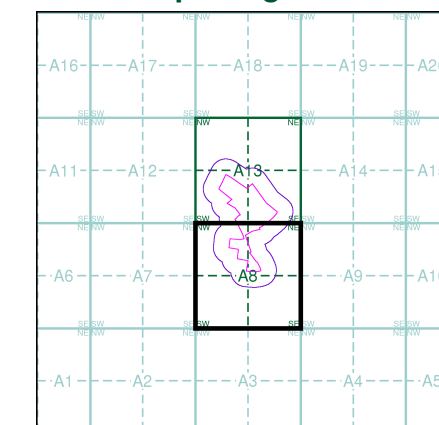
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SJ3742	1977	1:2,500
SJ3741	1964	1:2,500

Historical Map - Segment A8

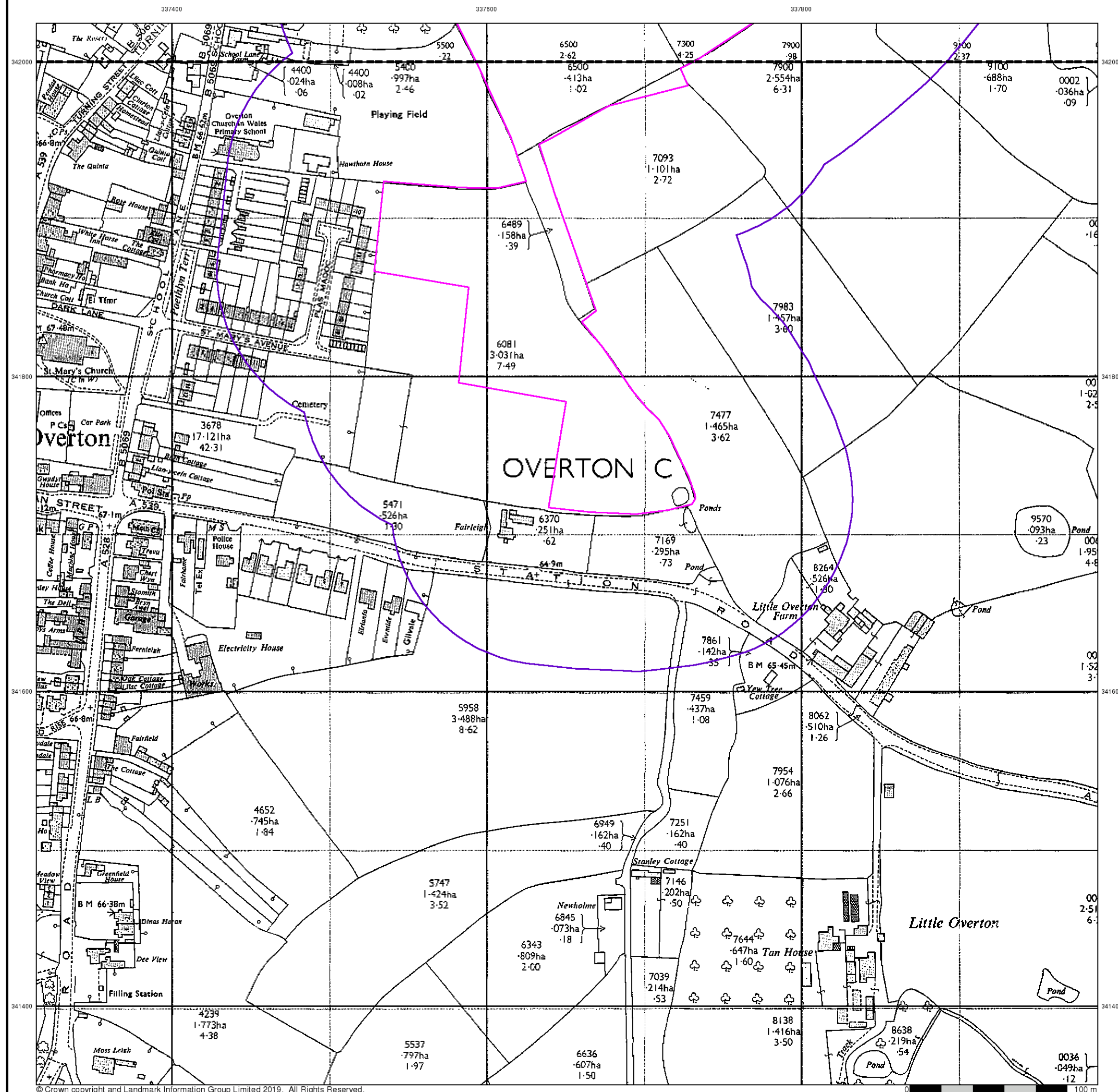


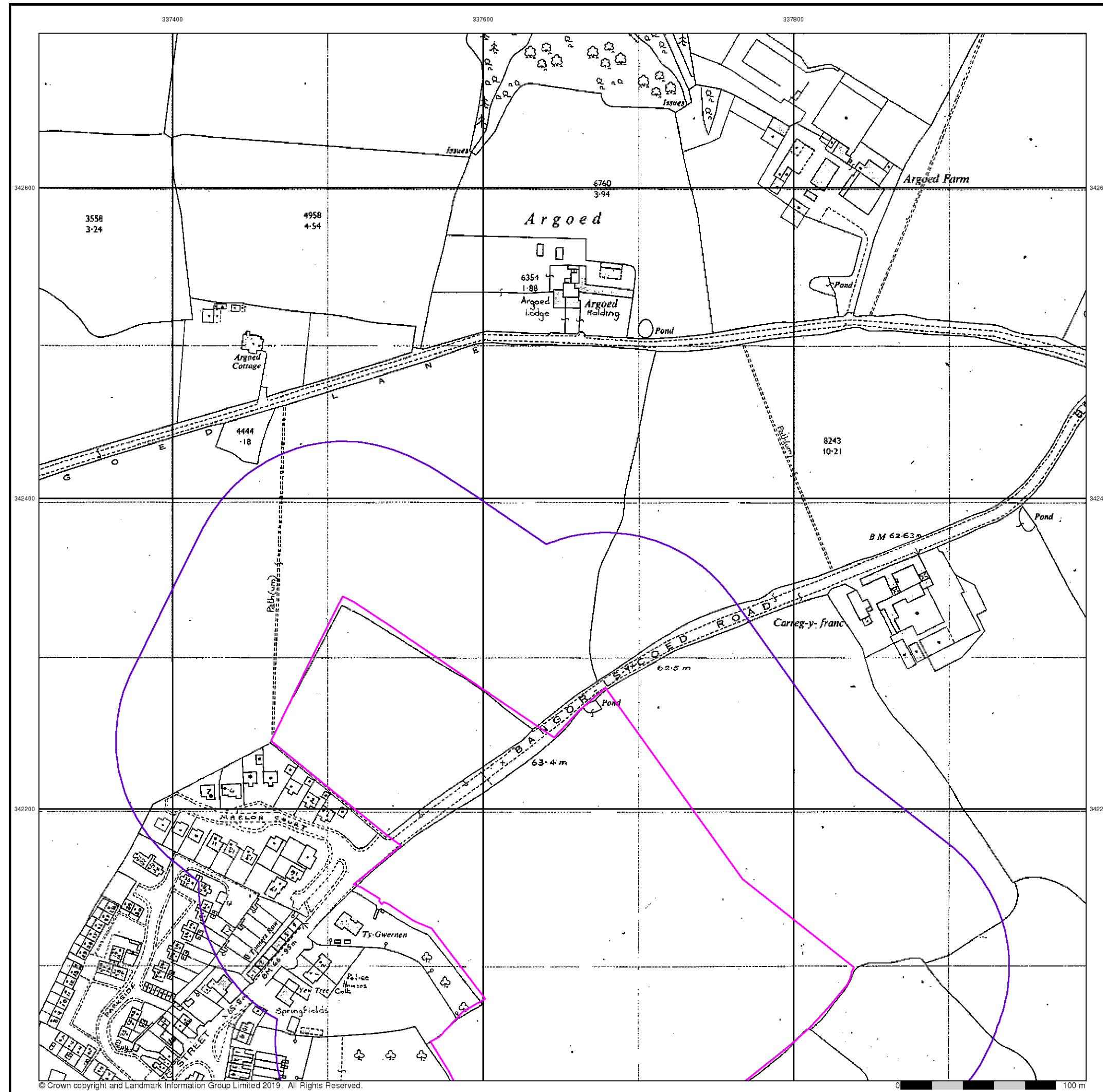
Order Details

Order Number: 212075919_1_1
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 National Grid Reference: 337640, 342030
 Slice: A
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 Search Buffer (m): 100

Site Details

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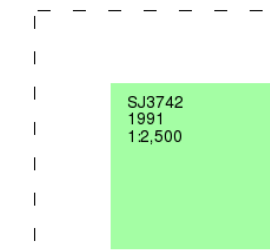
Additional SIMs

Published 1991

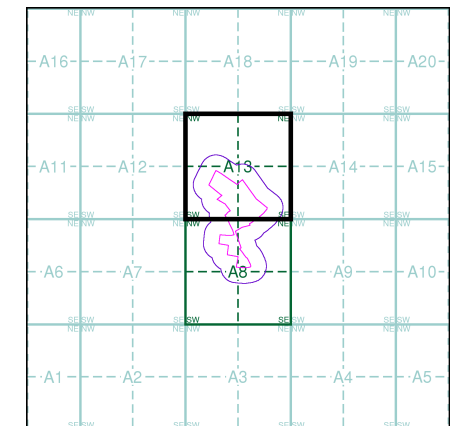
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

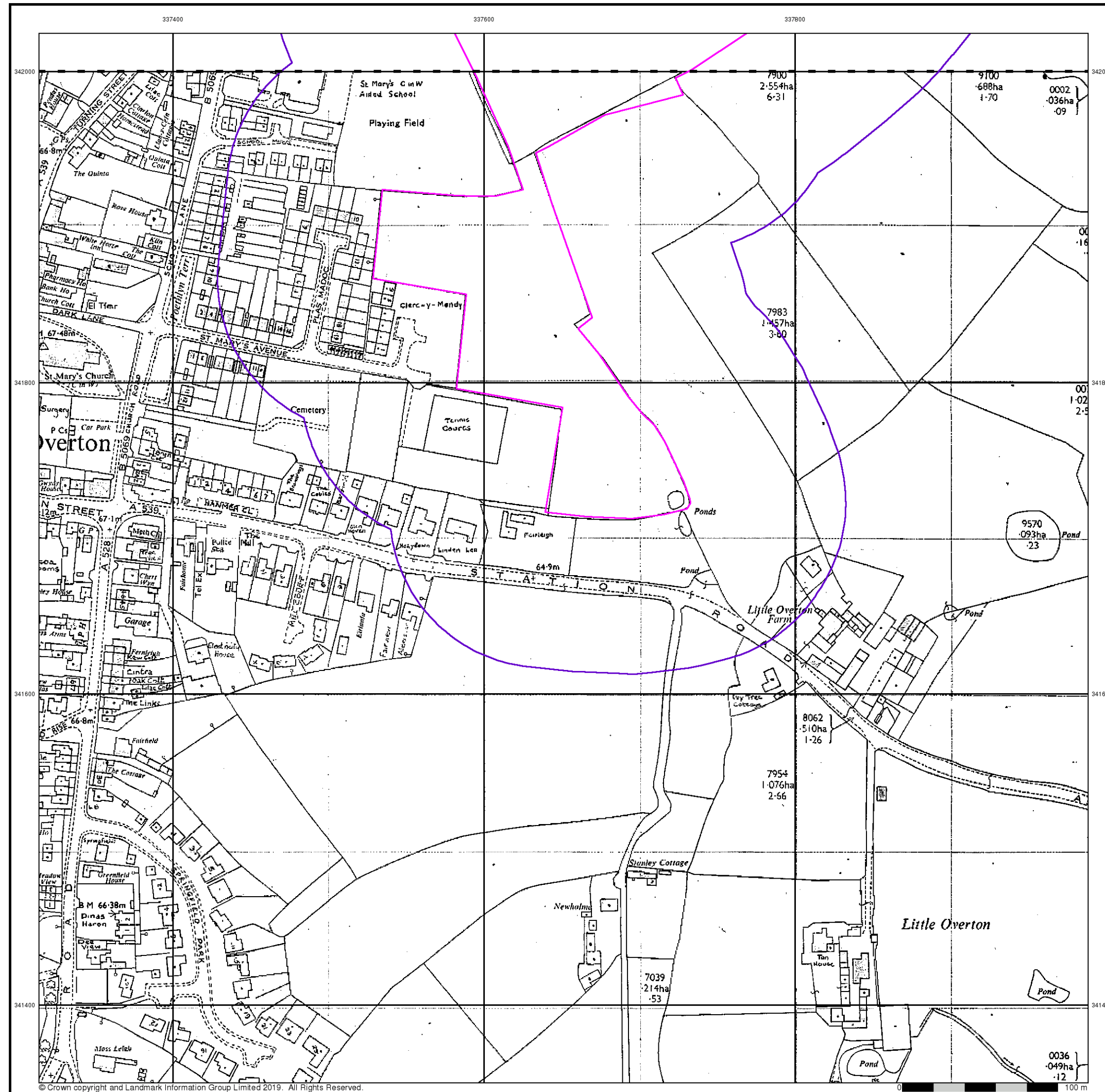


Order Details

Order Number: 212075919_1_1
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National Grid Reference: 337640, 342030
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Site Area (Ha): 8.82
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Site Details

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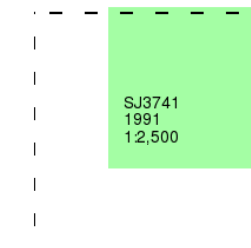
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Published 1991

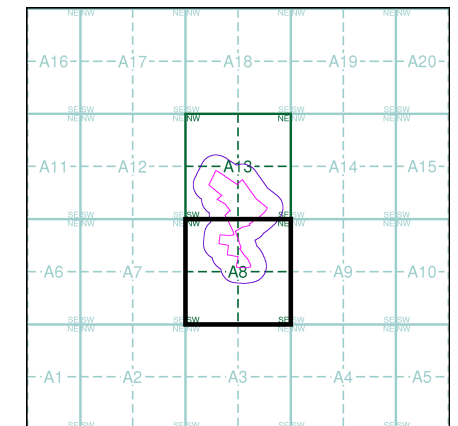
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

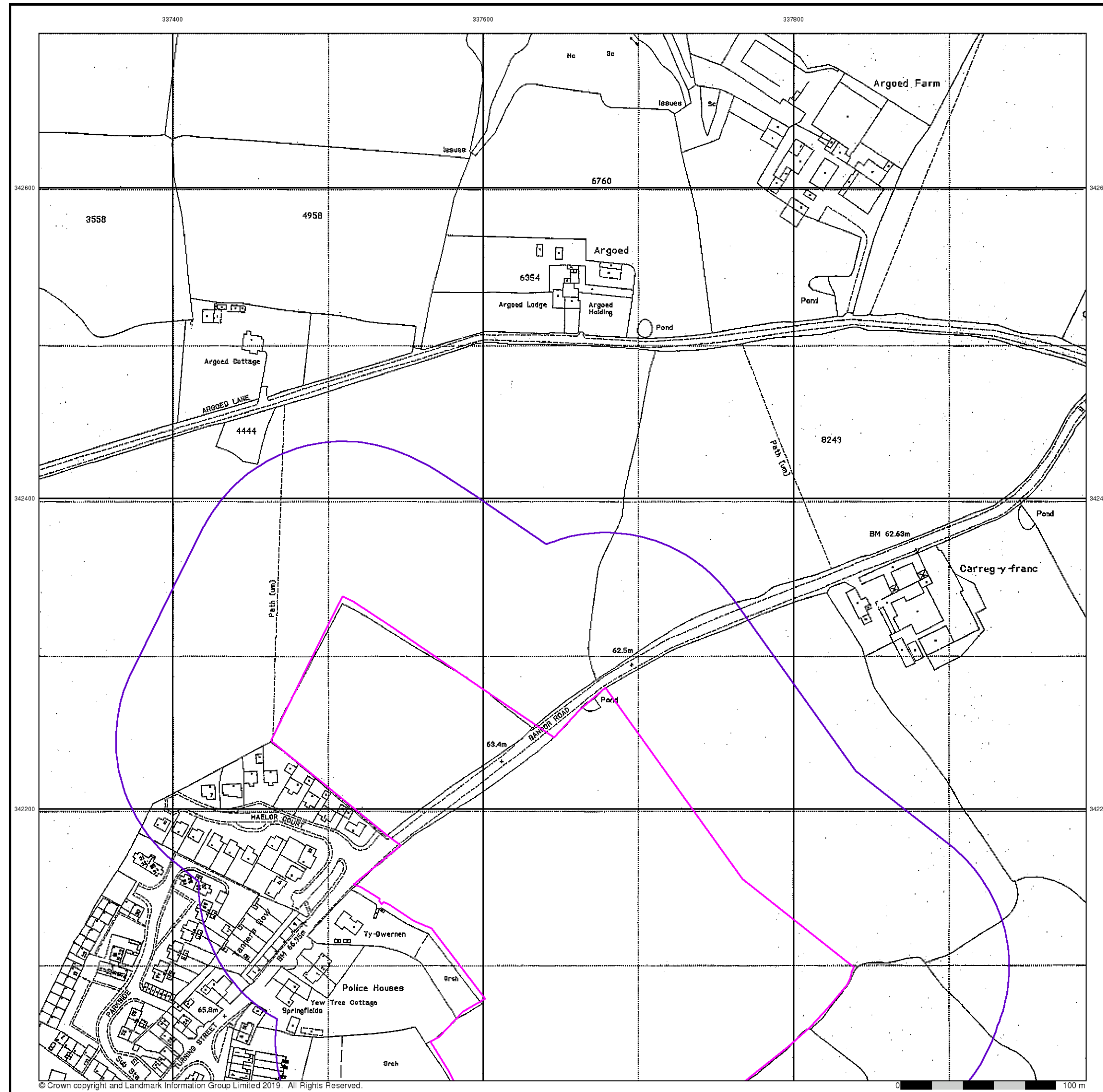
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National Grid Reference: 337640, 342030
Slice: A
Site Area (Ha): 8.82
Search Buffer (m): 100

Site Details

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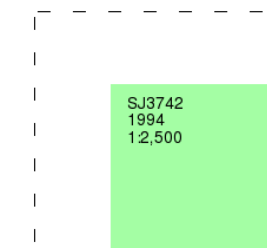
Large-Scale National Grid Data

Published 1994

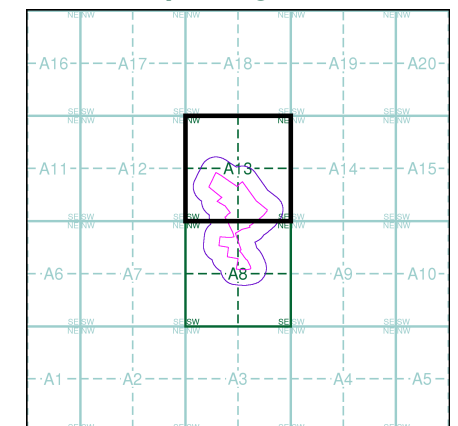
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

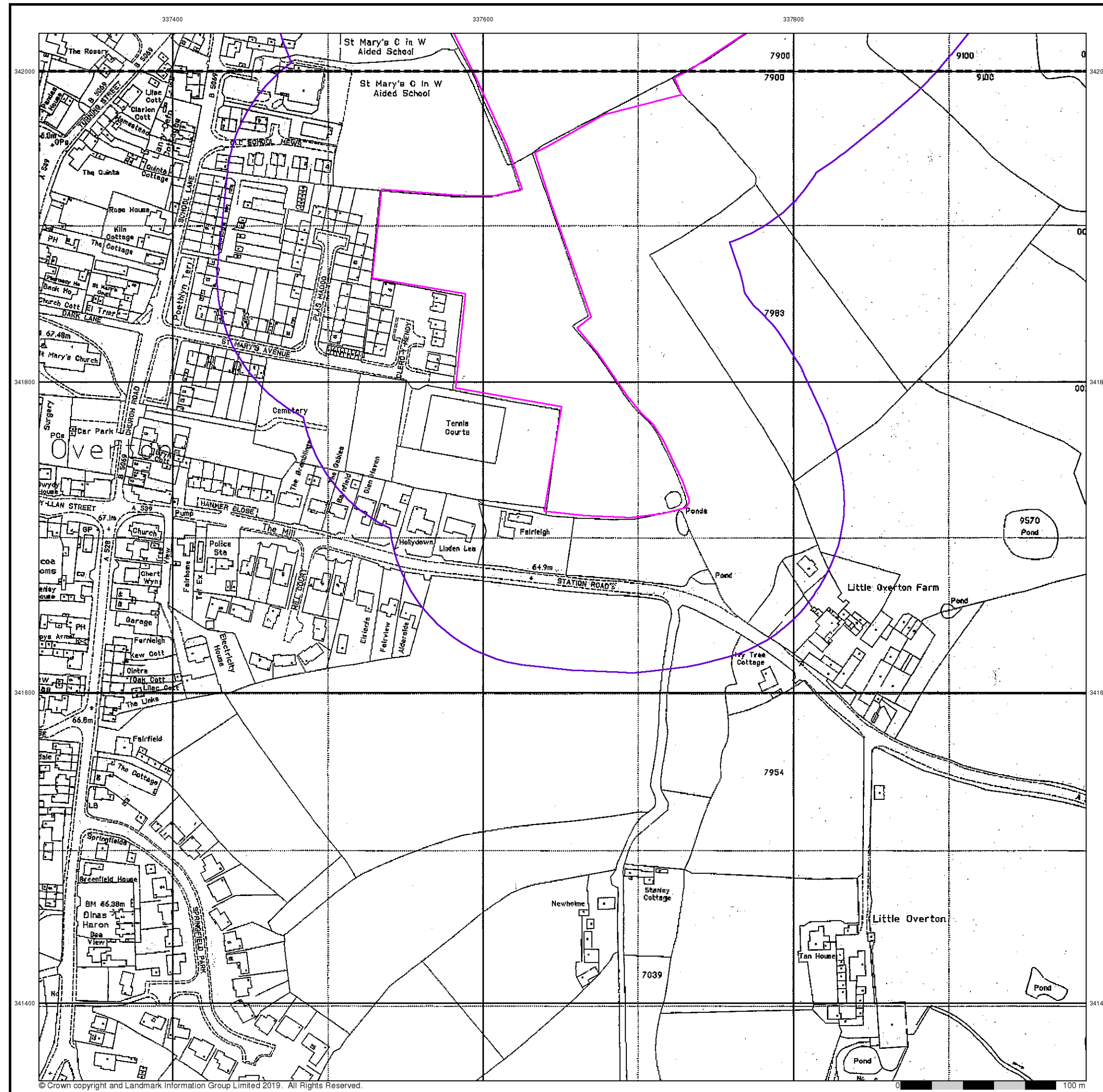


Order Details

Order Number: 212075919_1_1
Customer Ref: 19148
National Grid Reference: 337640, 342030
Slice: A
Site Area (Ha): 8.82
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Site Details

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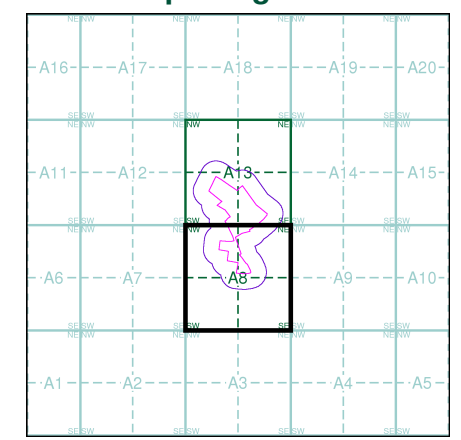
Large-Scale National Grid Data
Published 1994
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SJ3742	1994	1:2,500
SJ3741	1994	1:2,500

Historical Map - Segment A8



Order Details
Order Number: 212075919_1_1
Customer Ref: 19148
National Grid Reference: 337640, 342030
Slice: A
Site Area (Ha): 8.82
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Site Details
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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	•285 Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	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				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	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
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	Standard Gauge Multiple Track		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
	Civil Parish		
	BP, BS Boundary Post or Stone		Police Station
	Ch Church		Post Office
	CH Club House		Public Convenience
	F E Sta Fire Engine Station		Public House
	FB Foot Bridge		Signal Box
	Fn Fountain		Spring
	GP Guide Post		Telephone Call Box
	MP Mile Post		Telephone Call Post
	MS Mile Stone		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
	Mean high water (springs)		Mean low water (springs)
	Telephone line (where shown)		Electricity transmission line (with poles)
	Bench mark (where shown)		Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)		Pylon, flare stack or lighting tower
	Site of (antiquity)		Glasshouse
	General Building		Important Building

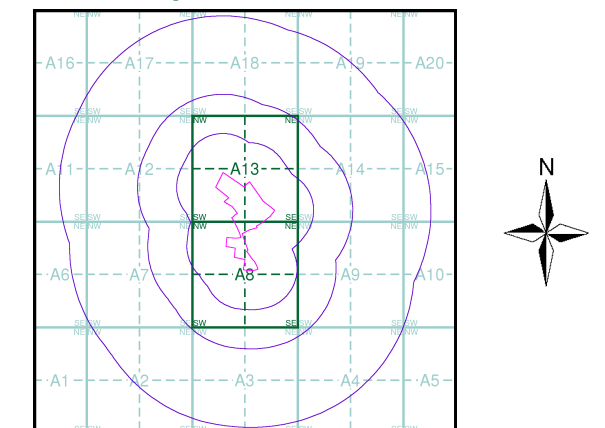
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Flintshire	1:10,560	1878 - 1879	2
Shropshire	1:10,560	1883	3
Flintshire	1:10,560	1900	4
Shropshire	1:10,560	1902	5
Denbighshire	1:10,560	1914	6
Flintshire	1:10,560	1915	7
Shropshire	1:10,560	1930	8
Ordnance Survey Plan	1:10,000	1954	9
Ordnance Survey Plan	1:10,000	1966	10
Ordnance Survey Plan	1:10,000	1980	11
Ordnance Survey Plan	1:10,000	1992	12
10K Raster Mapping	1:10,000	2000	13
10K Raster Mapping	1:10,000	2006	14
VectorMap Local	1:10,000	2019	15

Historical Map - Slice A



Order Details

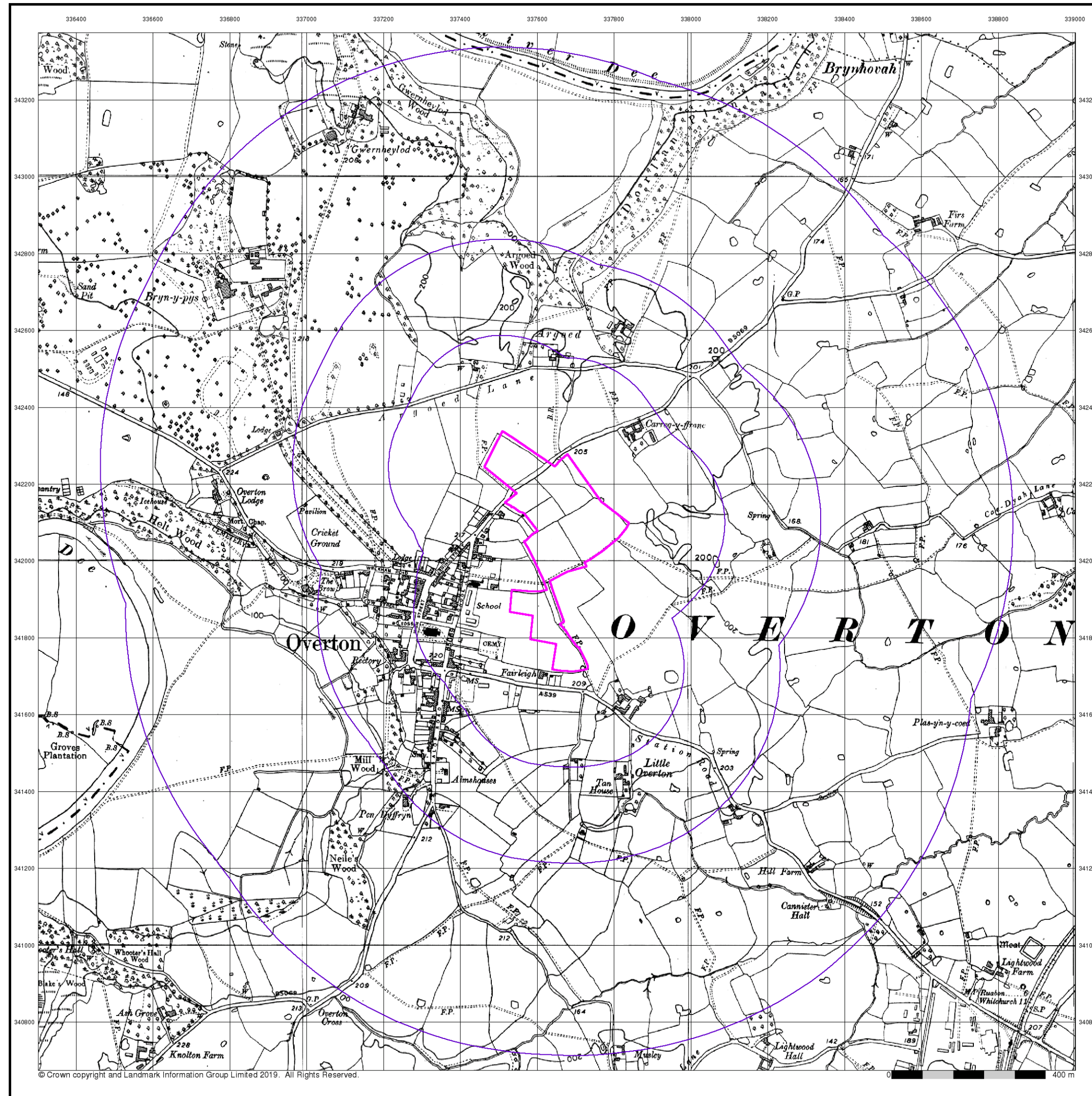
Order Number: 212075919_1_1
Customer Ref: 19148
National Grid Reference: 337640, 342030
Slice: A
Site Area (Ha): 8.82
Search Buffer (m): 1000

Site Details

Overton-on-Dee, WREXHAM, LL13 0HE

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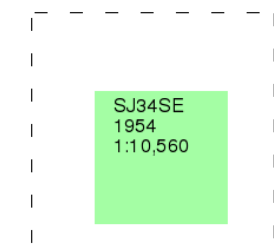
Ordnance Survey Plan

Published 1954

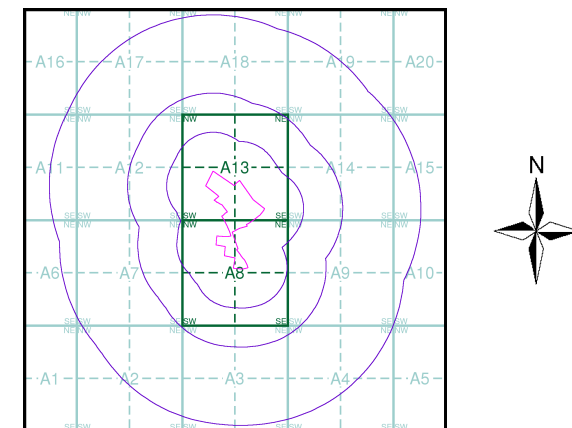
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



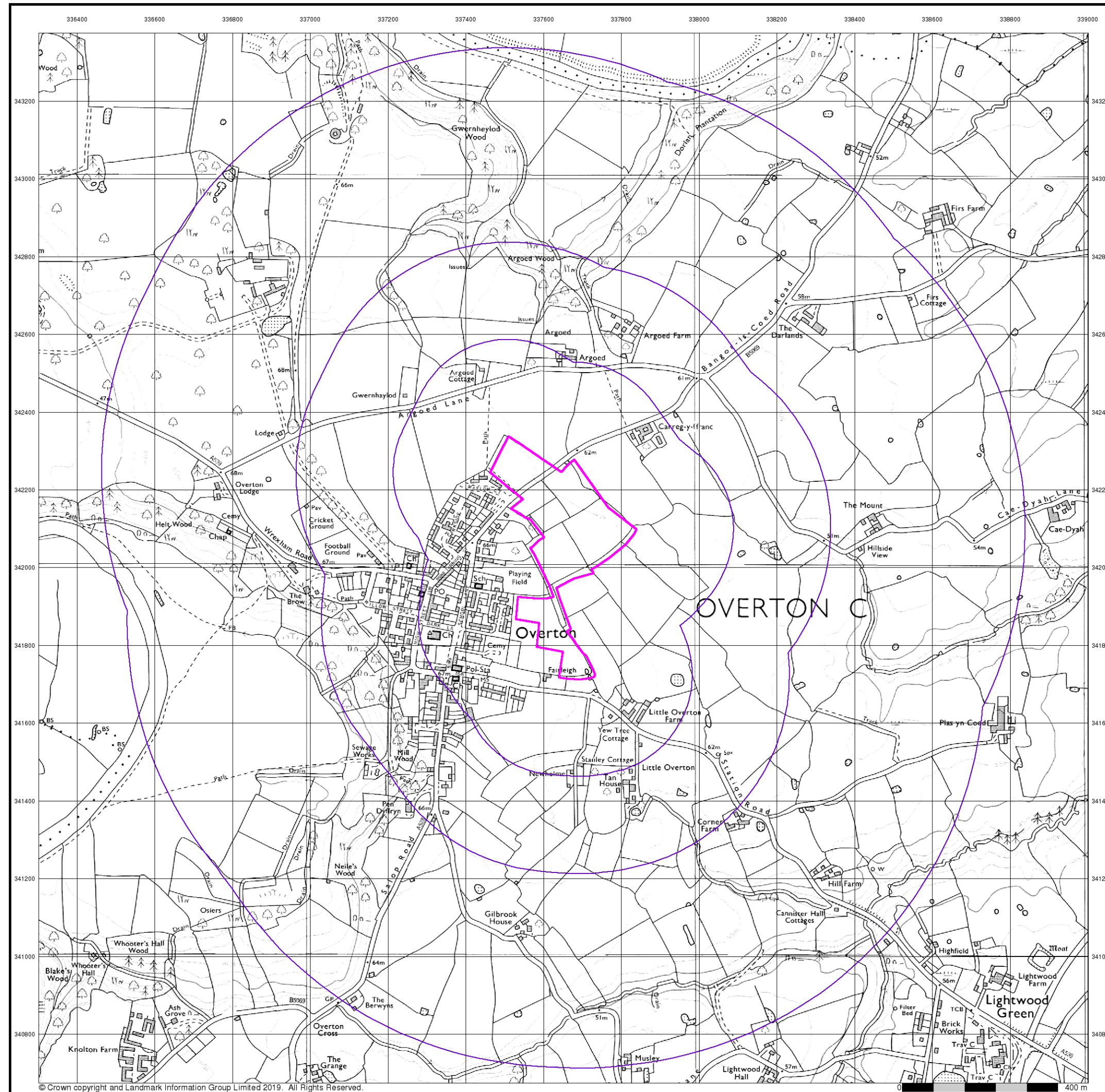
Historical Map - Slice A



Order Details	
Order Number:	212075919_1_1
Customer Ref:	19148
National Grid Reference:	337640, 342030
Slice:	A
Site Area (Ha):	8.82
Search Buffer (m):	1000

Site Details

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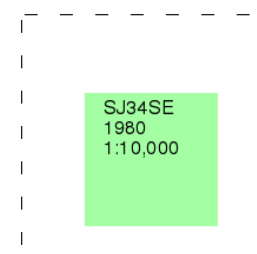
Ordnance Survey Plan

Published 1980

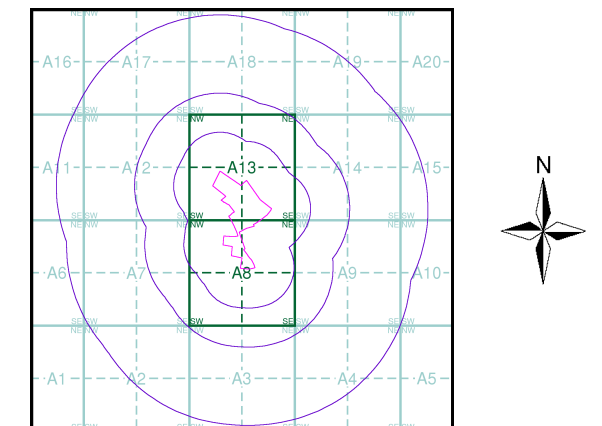
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

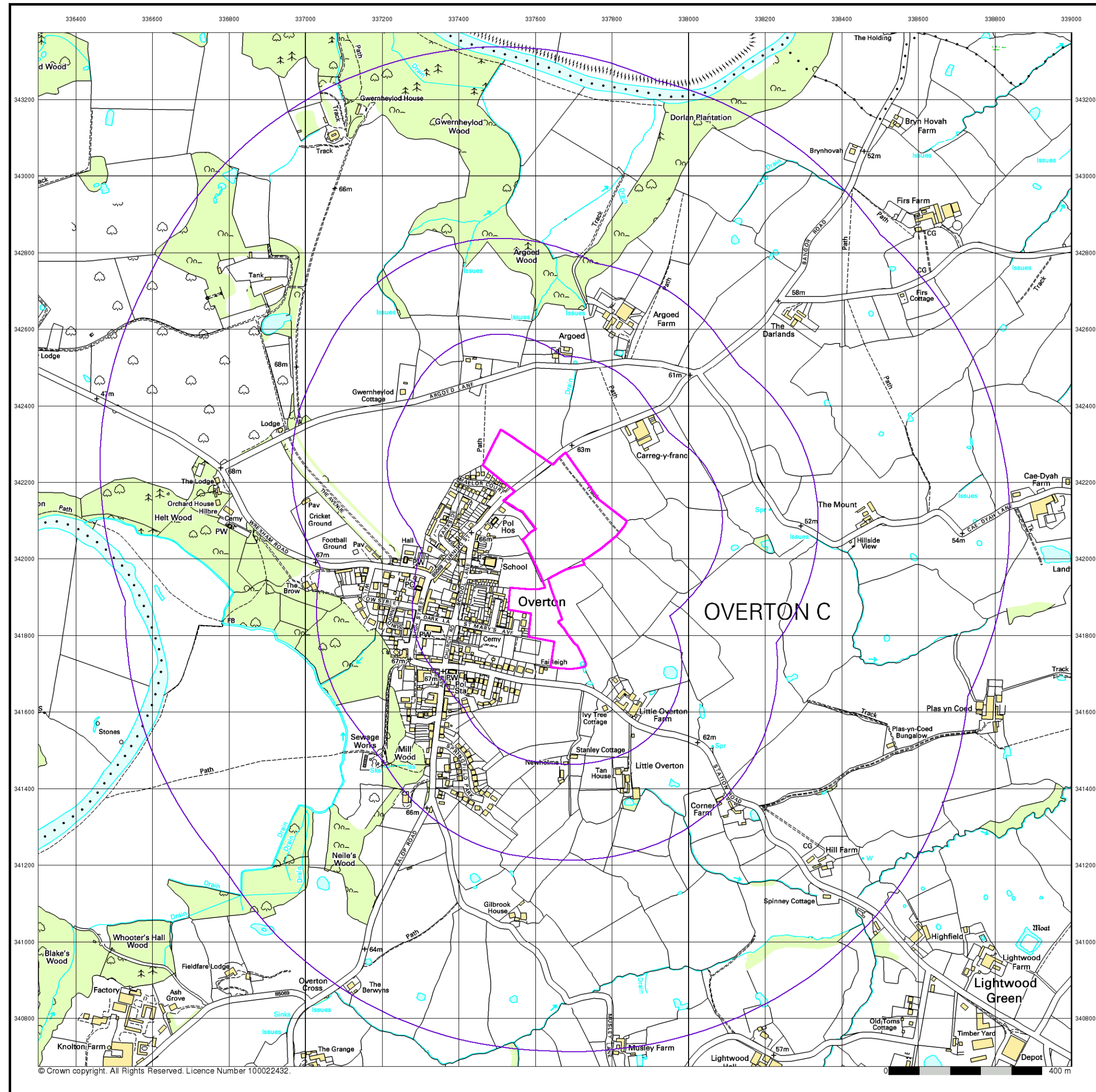
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Customer Ref: 19148
National Grid Reference: 337640, 342030
Slice: A
Site Area (Ha): 8.82
Search Buffer (m): 1000

Site Details

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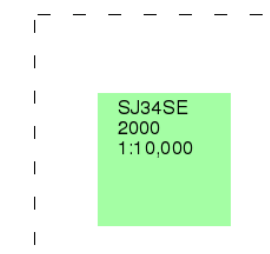
10k Raster Mapping

Published 2000

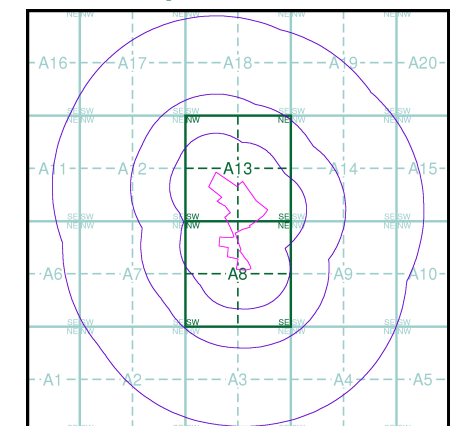
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

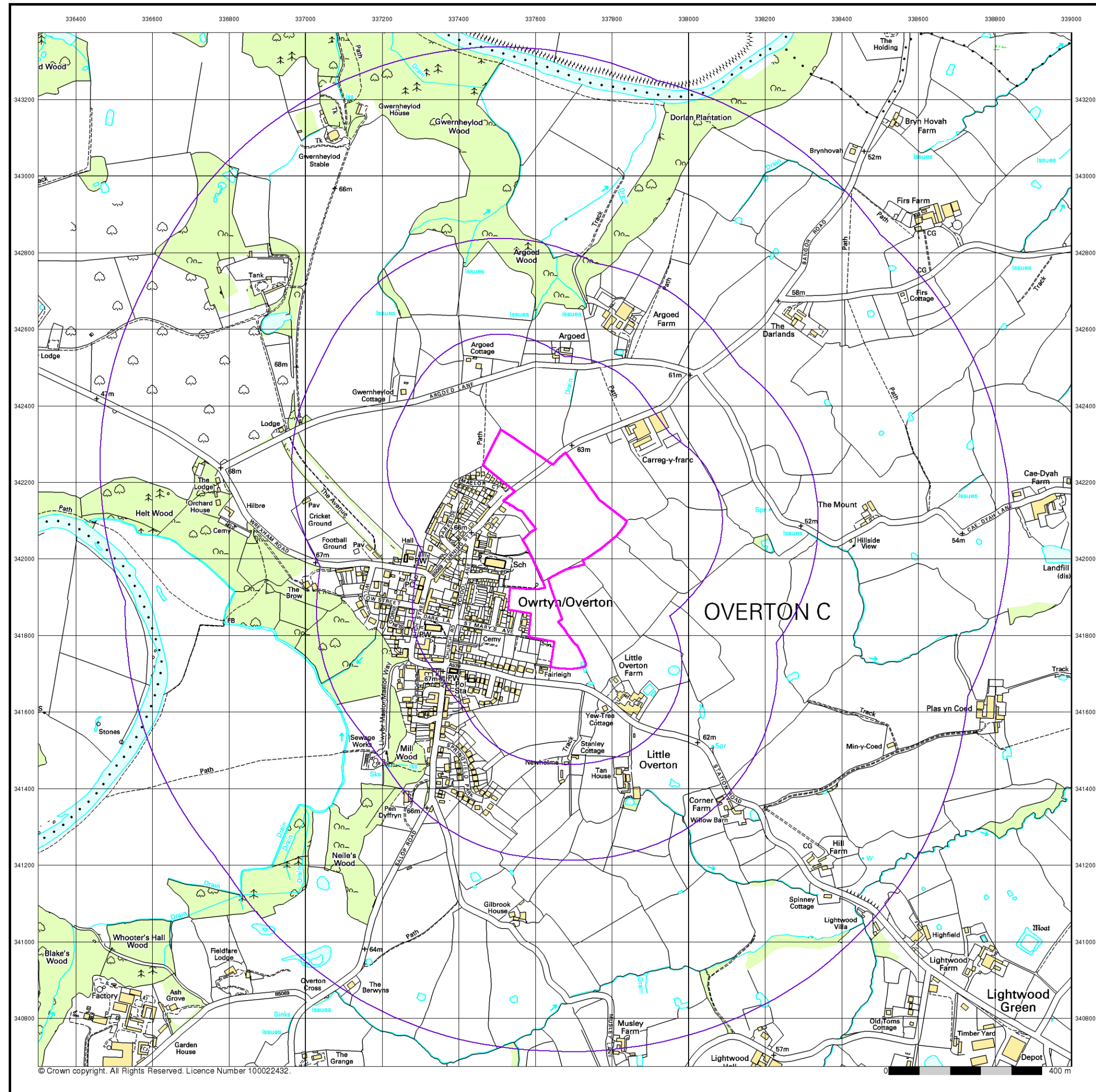
Order Number: 212075919_1_1
Customer Ref: 19148
National Grid Reference: 337640, 342030
Slice: A
Site Area (Ha): 8.82
Search Buffer (m): 1000

Site Details

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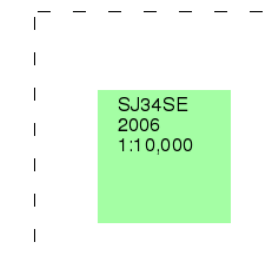
10k Raster Mapping

Published 2006

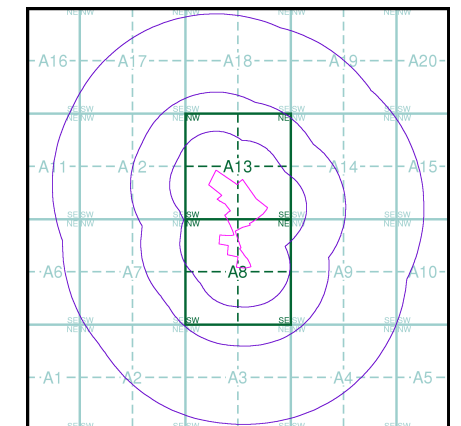
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 212075919_1_1
Customer Ref: 19148
National Grid Reference: 337640, 342030
Slice: A
Site Area (Ha): 8.82
Search Buffer (m): 1000

Site Details

Overtown-on-Dee, WREXHAM, LL13 0HE

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APPENDIX C
ENVIROCHECK SUPPORTING INFORMATION

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

212075919_1_1

Customer Reference:

19148

National Grid Reference:

337640, 342030

Slice:

A

Site Area (Ha):

8.82

Search Buffer (m):

1000

Site Details:

Overton-on-Dee

WREXHAM

LL13 0HE

Client Details:

Mr M Gill

Georisk Management Limited

Summit Point

Summit Crescent Industrial Estate

Smethwick

Birmingham

B66 1BT

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	18
Hazardous Substances	-
Geological	20
Industrial Land Use	22
Sensitive Land Use	25
Data Currency	26
Data Suppliers	32
Useful Contacts	33

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.

For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

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

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Radon Potential dataset Copyright Notice

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Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes		Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		2	1	14
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 5		Yes		
Pollution Incidents to Controlled Waters	pg 5		1	1	2
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 6				2
River Quality Biology Sampling Points	pg 6				1
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 6	1		2	1 (*12)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 10	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 11	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 11	Yes	n/a	n/a	n/a
Source Protection Zones	pg 11				1
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 11		2	10	41

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites	pg 18				1
Historical Landfill Sites	pg 18				1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 18	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)					
Potentially Infilled Land (Water)	pg 18		3	5	8
Registered Landfill Sites	pg 19				2
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 20	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 20	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 21	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 21	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 21	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards				n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 22		4	1	2
Fuel Station Entries	pg 22			1	
Points of Interest - Commercial Services	pg 22		1		4
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 23			1	2
Points of Interest - Public Infrastructure	pg 23		4	1	3
Points of Interest - Recreational and Environmental	pg 24			2	
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 25			3	7
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 25				1
Special Areas of Conservation	pg 25				1
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	0	1	337638 342031
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (SW)	369	1	337200 341700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7SE (SW)	394	1	337200 341650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (SW)	397	1	337150 341750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A7NE (SW)	414	1	337150 341700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (SW)	434	1	337100 341800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (W)	479	1	337050 341850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	485	1	337650 342800
1	Discharge Consents Operator: Mr H Price-Jones Property Type: Domestic Property (Single) Location: The Orchards Little Overton Wrexha, Little Overton Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0182001 Permit Version: 2 Effective Date: 21st April 1994 Issued Date: 21st April 1994 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Land Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A8SE (SE)	86	2	337800 341670
1	Discharge Consents Operator: Mr H Price-Jones Property Type: Domestic Property (Single) Location: The Orchards Little Overton Wrexha, Little Overton Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0182001 Permit Version: 1 Effective Date: 7th June 1989 Issued Date: 7th June 1989 Revocation Date: 20th April 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Land Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A8SE (SE)	86	2	337800 341670
2	Discharge Consents Operator: Mrs M F Lewis Property Type: Mixed Farming Location: Argoed Farm Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cm0138301 Permit Version: 1 Effective Date: 29th March 1974 Issued Date: 29th March 1974 Revocation Date: 5th April 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Unnamed Trib Of The Dee Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	403	2	337988 342535

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: Parry Homes Ltd Property Type: Domestic Property (Multiple) Location: Housing Estate Adjacent To Sal Over, Overton-On-D Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0157301 Permit Version: 1 Effective Date: 16th December 1987 Issued Date: 16th December 1987 Revocation Date: 21st November 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Un-Named Trib Of River Dee Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	542	2	337200 341400
4	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Overton Wwtw Pumping Station, Off A539, Overton, Wrexham Authority: Natural Resources Wales Catchment Area: DEE - CHESTER WEIR TO CEIRIOG Reference: Cg0430801 Permit Version: 1 Effective Date: 31st December 2005 Issued Date: 25th January 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: The Overton Drain Status: Effective Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	568	2	337102 341492
4	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Overton Stw, Superseded By Cm0188601 Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0013701 Permit Version: 2 Effective Date: 30th January 1985 Issued Date: 30th January 1985 Revocation Date: 22nd December 1992 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Not Supplied Environment: Receiving Water: Overton Drain Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	577	2	337100 341480
4	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Overton Stw, Superseded By Cm0188601 Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0013701 Permit Version: 1 Effective Date: 17th October 1981 Issued Date: 17th October 1981 Revocation Date: 29th January 1985 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Not Supplied Environment: Receiving Water: Overton Drain Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	577	2	337100 341480

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Bryn-Y-Pys Estate Property Type: Domestic Property (Single) Location: Bryn-Y-Pys Stables Argoed Lane Ove, Argoed Lane Overton On Dee Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cg0340501 Permit Version: 1 Effective Date: 12th May 1993 Issued Date: 12th May 1993 Revocation Date: 3rd August 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Land Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	683	2	336920 342680
6	Discharge Consents Operator: Bryn-Y-Pys Estate Property Type: Domestic Property (Single) Location: Bryn-Y-Pys Stables Argoed Lane Ove, Argoed Lane Overton On Dee Authority: Natural Resources Wales Catchment Area: Not Given Reference: CG0340501 Permit Version: 2 Effective Date: 4th August 1994 Issued Date: 4th August 1994 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Land Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	690	2	336950 342740
7	Discharge Consents Operator: Mr & Mrs F & J L Moody Property Type: Domestic Property (Single) Location: Orchard House Erbistock Wrexham, Erbistock Authority: Natural Resources Wales Catchment Area: Not Given Reference: CG0369301 Permit Version: 1 Effective Date: 1st October 1996 Issued Date: 1st October 1996 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: To Ditch Via Partial Soakaway Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A12SW (W)	711	2	336760 342140
8	Discharge Consents Operator: Mr W Story Property Type: Domestic Property (Multiple) Location: Overton-On-Dee Hilbre & Orchard H, Hilbre & Orchard House Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0041001 Permit Version: 1 Effective Date: 22nd March 1967 Issued Date: 22nd March 1967 Revocation Date: 6th January 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Overton Drain Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A12SW (W)	803	2	336690 342030

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Overton Wwtw, Off A539, Overton, Wrexham, Wales Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0188602 Permit Version: 1 Effective Date: 23rd November 1990 Issued Date: 23rd November 1990 Revocation Date: 30th December 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Not Supplied Environment: Receiving Water: Dee Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A6SE (W)	939	2	336620 341630
9	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Overton Wwtw (Storm), Off A539, Overton, Wrexham Authority: Natural Resources Wales Catchment Area: DEE - CHESTER WEIR TO CEIRIOG Reference: Cg0430701 Permit Version: 1 Effective Date: 31st December 2005 Issued Date: 25th January 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dee Status: Effective Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	943	2	336625 341598
9	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Overton Wwtw (Storm), Off A539, Overton, Wrexham Authority: Natural Resources Wales Catchment Area: DEE - CHESTER WEIR TO CEIRIOG Reference: Cm0188602 Permit Version: 2 Effective Date: 31st December 2005 Issued Date: 25th January 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Dee Status: Effective Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	943	2	336625 341598
9	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Overton Wwtw, Off A539, Overton, Wrexham, Wales Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0188601 Permit Version: 1 Effective Date: 23rd November 1990 Issued Date: 23rd November 1990 Revocation Date: 30th December 2005 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Dee Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	944	2	336625 341597

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Overton Wwtw, Off A539, Overton, Wrexham, Wales Authority: Natural Resources Wales Catchment Area: DEE - CHESTER WEIR TO CEIRIOG Reference: Cm0188601 Permit Version: 3 Effective Date: 1st January 2010 Issued Date: 26th June 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dee Status: Effective Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	948	2	336620 341597
9	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Overton Wwtw, Off A539, Overton, Wrexham, Wales Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cm0188601 Permit Version: 2 Effective Date: 31st December 2005 Issued Date: 25th January 2005 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dee Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	948	2	336620 341597
	Nearest Surface Water Feature	A8SE (S)	43	-	337747 341679
10	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Carreg Y Franc Farm Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Accidental Spillage/Leakage Incident Date: 8th July 1996 Incident Reference: 28989 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	172	3	337800 342400
11	Pollution Incidents to Controlled Waters Property Type: Council Premises Location: Foorpath Near, Overton Sewage Treatment Works Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Not Supplied Incident Date: 30th September 1994 Incident Reference: 21388 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Burst Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	465	3	337300 341400
12	Pollution Incidents to Controlled Waters Property Type: Cattle Grazing Land Location: Hill Farm, OVERTON Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 18th April 1996 Incident Reference: 28184 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A4NE (SE)	888	3	338450 341200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	Pollution Incidents to Controlled Waters Property Type: Not Given Location: High Street, OVERTON Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 18th April 1996 Incident Reference: 28184 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A4NE (SE)	891	3	338450 341195
	River Quality Name: Dee GQA Grade: River Quality A Reach: Conf. Clwedog - Conf. Overton Drain Estimated Distance (km): 16.8 Flow Rate: Flow less than 40 cumecs Flow Type: River Year: 2000	A18NE (N)	882	3	337898 343151
	River Quality Name: Dee GQA Grade: River Quality A Reach: Conf. Overton Drain- Conf. Shellbrook Estimated Distance (km): 2.2 Flow Rate: Flow less than 40 cumecs Flow Type: River Year: 2000	A6SE (W)	950	3	336611 341621
13	River Quality Biology Sampling Points Name: Dee Reach: Confluence River Clwedog To Confluence Overton Drain Estimated Distance: 16.80 Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 1995 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2000 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2002 GQA Grade: River Quality Biology GQA Grade Not Supplied Year: 2003 GQA Grade: River Quality Biology GQA Grade Not Supplied Year: 2004 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2005 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2006 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2007 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2008 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2009 GQA Grade: River Quality Biology GQA Grade A - Very Good	A11SE (W)	975	3	336500 342100
14	Water Abstractions Operator: Mr J Owen Licence Number: 24/67/7/0118 Permit Version: 100 Location: Well Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th October 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (NW)	0	3	337580 342110

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Water Abstractions Operator: Mrs M Lewis Licence Number: 24/67/7/0120 Permit Version: 100 Location: Well Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13NE (N)	263	3	337680 342540
16	Water Abstractions Operator: Mrs M Lewis Licence Number: 24/67/7/0121 Permit Version: 100 Location: Well Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13NE (N)	383	3	337850 342620
17	Water Abstractions Operator: Trustees Of The Peel Estate Licence Number: 24/67/7/0119 Permit Version: 100 Location: Well Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th January 1971 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	803	3	336910 342870
	Water Abstractions Operator: Knolton Farmhouse Cheese Ltd Licence Number: 24/67/7/0215 Permit Version: 2 Location: Borehole A Authority: Environment Agency, Welsh Region Abstraction: Food And Drink: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Knolton Farmhouse Cheese Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st September 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1SE (SW)	1520	3	336420 340810

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Knolton Farmhouse Cheese Ltd Licence Number: 24/67/7/0215 Permit Version: 1 Location: Borehole A Authority: Environment Agency, Welsh Region Abstraction: Food And Drink: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Knolton Farmhouse Cheese. Licenced from 01-Jan to 31-Dec Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th January 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1SE (SW)	1520	3	336420 340810
	Water Abstractions Operator: Knolton Farmhouse Cheese Ltd Licence Number: Wa/067/0007/0014 Permit Version: Not Supplied Location: Knolton Farmhouse, Knolton Farmhouse Cheese Ltd, Oswestry Road, Overton, Wrexham, Wrexham, LL13 0lg Authority: Natural Resources Wales Abstraction: Dairies: Process water Abstraction Type: Water may be abstracted from any point within an area Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1SE (SW)	1522	2	336438 340783
	Water Abstractions Operator: Knolton Farmhouse Cheese Ltd Licence Number: Wa/067/0007/013 Permit Version: 1 Location: Borehole A At Knolton Cheese Authority: Natural Resources Wales Abstraction: Dairies: Process water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Knolton Cheese Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 14th September 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1SE (SW)	1523	2	336438 340782
	Water Abstractions Operator: Knolton Farmhouse Cheese Ltd Licence Number: 24/67/7/0235 Permit Version: 2 Location: Borehole A At Knolton Cheese Authority: Natural Resources Wales Abstraction: Dairies: Process water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Knolton Cheese Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th June 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1SE (SW)	1523	2	336438 340782

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Knolton Farmhouse Cheese Ltd Licence Number: 24/67/7/0235 Permit Version: 1 Location: Borehole A At Knolton Cheese Authority: Environment Agency, Welsh Region Abstraction: Dairies: Process water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Knolton Cheese Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1SE (SW)	1523	3	336438 340782
	Water Abstractions Operator: Knolton Farmhouse Cheese Ltd Licence Number: 24/67/7/0230 Permit Version: 1 Location: Borehole A At Knolton Cheese Authority: Environment Agency, Welsh Region Abstraction: Dairies: Process water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Knolton Cheese Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th January 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1SE (SW)	1523	3	336438 340782
	Water Abstractions Operator: Knolton Farmhouse Cheese Ltd Licence Number: Wa/067/0007/013 Permit Version: Not Supplied Location: Knolton Farmhouse Abstraction Authority: Natural Resources Wales Abstraction: Dairies: Process water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1SE (SW)	1523	2	336438 340782
	Water Abstractions Operator: Knolton Farmhouse Cheese Ltd Licence Number: Wa/067/0007/0014 Permit Version: Not Supplied Location: Knolton Farmhouse, Knolton Farmhouse Cheese Ltd, Oswestry Road, Overton, Wrexham, Wrexham, LI13 0lg Authority: Natural Resources Wales Abstraction: Dairies: Process water Abstraction Type: Water may be abstracted from any point within an area Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1SE (SW)	1541	2	336420 340775

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr E Dimelow Licence Number: 24/67/7/0024 Permit Version: 100 Location: Borehole Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 5th July 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A20SE (NE)	1635	3	339280 342870
	Water Abstractions Operator: Bangor On Dee Races Ltd Licence Number: 24/67/7/0180 Permit Version: 101 Location: Riverdee Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 12th March 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1909	2	337650 344240
	Water Abstractions Operator: Bangor On Dee Races Ltd Licence Number: 24/67/7/0180 Permit Version: 100 Location: Riverdee Authority: Environment Agency, Welsh Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Riverdee Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th October 1994 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1909	3	337650 344240
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Mixed Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: High	A8NW (S)	0	2	337638 342000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Mixed Dilution: 300-550 mm/year Baseflow Index: >70% Superficial: >90% Patchiness: Superficial >10m Thickness: Superficial High Recharge:	A13SW (S)	0	2	337638 342031
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13SW (S)	0	2	337638 342031
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (S)	0	2	337638 342031
18	Source Protection Zones Name: Not Supplied Source: Natural Resources Wales Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A18SW (N)	538	2	337596 342879
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 87.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A13NE (N)	133	5	337691 342410
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 160.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A13NE (N)	220	5	337705 342496
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 130.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A13NW (N)	301	5	337593 342625
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 195.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7NE (SW)	353	5	337182 341798

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 649.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SE (S)	360	5	337889 341397
24	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 12.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SE (S)	373	5	337847 341365
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 112.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A13NE (N)	381	5	337731 342655
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 441.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12NE (NW)	419	5	337238 342655
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 366.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SE (N)	425	5	337657 342735
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 128.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SW (N)	439	5	337412 342764
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 65.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7SE (SW)	453	5	337266 341461
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14SW (E)	477	5	338314 342072
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14SE (E)	506	5	338342 342056

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 656.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14SE (E)	510	5	338346 342054
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 192.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7SE (SW)	512	5	337070 341634
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 856.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7NE (SW)	526	5	337024 341712
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 431.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SW (N)	548	5	337458 342882
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7SE (SW)	565	5	337102 341498
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 215.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7SE (SW)	567	5	337101 341494
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SE (N)	669	5	337828 342930
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SE (N)	696	5	337815 342961
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 269.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SE (N)	709	5	337808 342979

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 340.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7SE (SW)	726	5	337009 341352
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7SE (SW)	726	5	337009 341352
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 121.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 2	A2NE (SW)	737	5	337002 341342
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 148.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A2NE (SW)	738	5	337002 341342
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 362.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A19SW (NE)	778	5	338132 342910
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 429.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A3SE (S)	812	5	337847 340915
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 247.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 2	A2NE (SW)	814	5	336993 341223
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 615.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A3SE (S)	814	5	337905 340924
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A3SE (S)	817	5	337894 340918

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 112.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A4NE (SE)	853	5	338339 341123
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A2NW (SW)	861	5	336947 341207
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 342.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15SW (E)	875	5	338710 342175
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15SW (E)	875	5	338710 342175
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 197.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A17SW (NW)	884	5	336909 342984
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 158.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 2	A18NW (N)	893	5	337467 343228
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 105.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18NW (N)	893	5	337467 343228
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 100.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A17NE (NW)	913	5	337038 343118
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10NW (E)	913	5	338702 341803

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 795.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Dyfrdwy Catchment Name: Dee Primacy: 1	A6NE (W)	914	5	336622 341757
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 86.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10NW (E)	921	5	338711 341804
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 250.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 2	A17NE (N)	930	5	337310 343244
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1201.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A4NE (SE)	933	5	338462 341141
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 86.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A4NE (SE)	935	5	338451 341124
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 272.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15SW (E)	939	5	338769 342223
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 407.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Dyfrdwy Catchment Name: Dee Primacy: 1	A18NE (N)	940	5	337870 343221
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 411.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A17NE (NW)	959	5	337096 343201
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1316.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Dyfrdwy Catchment Name: Dee Primacy: 1	A18NE (N)	965	5	337925 343211

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 282.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Dyfrdwy Catchment Name: Dee Primacy: 1	A18NW (N)	982	5	337521 343318
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 172.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A3SW (S)	984	5	337545 340737
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 618.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A2SE (SW)	984	5	337081 340869
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 512.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A4NE (SE)	988	5	338456 341050

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	BGS Recorded Landfill Sites Site Name: Cae-Dyah Tip Location: Overton, WREXHAM, Clwyd Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate	A10NW (E)	985	-	338799 341884
73	Historical Landfill Sites Licence Holder: Maelor Rural District Council Location: Overton, Wrexham, Clwyd Name: Cae-Dyah Lane Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14268 First Input Date: 30th April 1966 Last Input Date: 31st December 1974 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6955/0017 BGS Ref: 2670 Other Ref: Not Supplied	A10NW (E)	985	2	338799 341882
	Local Authority Landfill Coverage Name: Wrexham County Borough Council - Has supplied landfill data		0	6	337638 342031
74	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A13SW (NW)	66	-	337453 342135
75	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A8SW (SW)	168	-	337471 341672
76	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A7NE (W)	249	-	337305 342018
77	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A8SW (SW)	304	-	337401 341530
78	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A7NE (W)	408	-	337124 341912
79	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A8SW (SW)	443	-	337317 341413
80	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A7SE (SW)	452	-	337115 341685
81	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A7NE (W)	491	-	337040 341903
82	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A7NW (W)	560	-	336969 341981
83	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A7SE (SW)	598	-	337096 341448
84	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A7NW (W)	620	-	336911 341913
85	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A3NW (S)	663	-	337536 341062
86	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A12SW (W)	666	-	336808 342131

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1930	A3SE (S)	975	-	337779 340742
88	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1878	A3SW (S)	983	-	337428 340757
89	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A19SE (NE)	999	-	338493 342856
90	Registered Landfill Sites Licence Holder: T Williams Licence Reference: L55 Site Location: Cae Dyah Farm, Cae Dyah Lane, Overton, Wrexham, Clwyd Licence Easting: 338800 Licence Northing: 342000 Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st July 1990 Preceded By: L12 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Excavated Waste Farm Wastes House, Com + Ind.Waste Max.Waste Permitted By Licence- Stated Sewage Sludges Uncontam. Constr'N/Demol. Wastes	A10NW (E)	967	3	338800 342000
90	Registered Landfill Sites Licence Holder: T Williams Licence Reference: L12 Site Location: Caedyah Farm, Caedyah Lane, Overton, Wrexham, Clwyd Licence Easting: 338800 Licence Northing: 342000 Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Record supersededSuperseded Dated: 1st August 1977 Preceded By: Not Given Licence: Superseded By: L55 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Builders Waste Domestic Refuse Farm Waste Sewerage Sludge Trade Waste	A10NW (E)	967	3	338800 342000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Permian Rocks (Undifferentiated)	A13SW (S)	0	1	337638 342031
	BGS 1:625,000 Solid Geology Description: Triassic Rocks (Undifferentiated)	A8NE (E)	0	1	337755 342016
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (S)	0	1	337638 342031
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A8NE (E)	8	1	337830 342000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NW (E)	252	1	338118 342007
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A3NE (S)	449	1	337807 341277
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A14NW (NE)	682	1	338291 342608

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A4NE (SE)	871	1	338381 341141
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	337638 342031
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	337638 342031
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	337638 342031
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	337638 342031
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	337638 342031
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	337638 342031
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	337638 342031
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	337638 342031

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
91	Contemporary Trade Directory Entries Name: Springfields Supplies Location: 11, Bangor Road, Overton, Wrexham, Clwyd, LL13 0HB Classification: Hardware Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	87	-	337475 342076
91	Contemporary Trade Directory Entries Name: Spring Field Supplies Location: 11, Bangor Road, Overton, Wrexham, Clwyd, LL13 0HB Classification: Agricultural Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	87	-	337475 342076
92	Contemporary Trade Directory Entries Name: Acer Location: 1, School Lane, Overton, Wrexham, Clwyd, LL13 0ES Classification: Lawnmowers & Garden Machinery - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	102	-	337433 341930
93	Contemporary Trade Directory Entries Name: C H Wason & Sons Location: 43-44, Salop Road, Overton, Wrexham, Clwyd, LL13 0EH Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (SW)	243	-	337389 341649
94	Contemporary Trade Directory Entries Name: Grove Furnishings Ltd Location: The Old Surgery, Penyllan Street, Overton, Wrexham, Clwyd, LL13 0EE Classification: Furniture Manufacturers - Home & Office Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	294	-	337275 341719
95	Contemporary Trade Directory Entries Name: B J Clarke Location: The Darlands, Cloy Lane, Overton, Wrexham, Clwyd, LL13 0HP Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	681	-	338278 342618
95	Contemporary Trade Directory Entries Name: B J Clarke Haulage Contractors Location: The Darlands, Cloy Lane, Overton, Wrexham, Clwyd, LL13 0HP Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (NE)	681	-	338278 342618
96	Fuel Station Entries Name: Overton Garage Location: 43-44, Salop Road , , Wrexham, Wrexham, LL13 0EH Brand: Gulf Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A8SW (SW)	258	-	337370 341651
97	Points of Interest - Commercial Services Name: Richards Autos Overton Garage Location: 43-44 Salop Road, Overton, Wrexham, LL13 0EH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (SW)	243	8	337389 341649
98	Points of Interest - Commercial Services Name: B J Clarke Ltd Location: The Darlands, Cloy Lane, Overton, Wrexham, LL13 0HP Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A14NW (NE)	680	8	338278 342617
98	Points of Interest - Commercial Services Name: B J Clarke Haulage Contractors Location: The Darlands, Cloy Lane, Overton, Wrexham, LL13 0HP Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A14NW (NE)	680	8	338278 342617
98	Points of Interest - Commercial Services Name: B J Clarke Location: The Darlands, Cloy Lane, Overton, Wrexham, LL13 0HP Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A14NW (NE)	681	8	338278 342618

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
98	Points of Interest - Commercial Services Name: Clarke Location: The Darlands, Cloy Lane, Overton, Wrexham, LL13 0HP Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A14NW (NE)	681	8	338278 342618
99	Points of Interest - Manufacturing and Production Name: M F Lewis Location: Argoed Farm, Argoed Lane, Overton, Wrexham, LL13 0HH Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A13NE (N)	362	8	337820 342611
100	Points of Interest - Manufacturing and Production Name: Works Location: LL13 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	553	8	337142 341462
101	Points of Interest - Manufacturing and Production Name: Tank Location: LL13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	739	8	336888 342736
102	Points of Interest - Public Infrastructure Name: Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	100	8	337476 341782
102	Points of Interest - Public Infrastructure Name: Cemetery Location: LL13 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	100	8	337475 341783
103	Points of Interest - Public Infrastructure Name: Overton On Dee Police Station Location: Station Road, Wrexham, LL13 0EF Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A8SW (SW)	190	8	337431 341682
103	Points of Interest - Public Infrastructure Name: C H Wason & Sons Location: 43-44 Salop Road, Overton, Wrexham, LL13 0EH Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8SW (SW)	243	8	337389 341649
103	Points of Interest - Public Infrastructure Name: Overton Garage Location: 43-44, Salop Road, Overton, Wrexham, LL13 0EH Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8SW (SW)	258	8	337370 341651
104	Points of Interest - Public Infrastructure Name: Sewage Works Location: LL13 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A7SE (SW)	514	8	337173 341486
105	Points of Interest - Public Infrastructure Name: Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	649	8	336833 342092
105	Points of Interest - Public Infrastructure Name: Cemetery Location: LL13 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	649	8	336833 342092

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
106	Points of Interest - Recreational and Environmental Name: Play Area Location: Wrexham Road, LL13 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A7NE (W)	399	8	337135 342019
106	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7NE (W)	412	8	337130 342002

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
107	Ancient Woodland Name: Not Supplied Reference: 29684 Area(m²): 115759.28 Type: Restored Ancient Woodland Site	A13NW (N)	323	2	337611 342644
108	Ancient Woodland Name: Not Supplied Reference: 45169 Area(m²): 65034.73 Type: Plantation on Ancient Woodland	A18SW (N)	436	2	337420 342763
109	Ancient Woodland Name: Not Supplied Reference: 36779 Area(m²): 1300.76 Type: Restored Ancient Woodland Site	A18SE (N)	469	2	337717 342777
110	Ancient Woodland Name: Not Supplied Reference: 29687 Area(m²): 54925.57 Type: Restored Ancient Woodland Site	A7NW (W)	645	2	336883 341951
111	Ancient Woodland Name: Not Supplied Reference: 29686 Area(m²): 21245.92 Type: Restored Ancient Woodland Site	A7SE (SW)	658	2	337085 341354
112	Ancient Woodland Name: Not Supplied Reference: 29684 Area(m²): 250325.7 Type: Restored Ancient Woodland Site	A18NW (N)	792	2	337399 343120
113	Ancient Woodland Name: Not Supplied Reference: 33282 Area(m²): 15762.74 Type: Ancient and Semi-Natural Woodland	A17SW (NW)	838	2	336773 342737
114	Ancient Woodland Name: Not Supplied Reference: 31845 Area(m²): 8843.23 Type: Ancient and Semi-Natural Woodland	A4SW (SE)	843	2	338157 340993
115	Ancient Woodland Name: Not Supplied Reference: 36780 Area(m²): 8781.19 Type: Restored Ancient Woodland Site	A17NE (NW)	853	2	337119 343095
116	Ancient Woodland Name: Not Supplied Reference: 31856 Area(m²): 1714.32 Type: Ancient and Semi-Natural Woodland	A18NE (N)	959	2	337976 343189
117	Sites of Special Scientific Interest Name: Afon Dyfrdwy (River Dee) Multiple Areas: Y Total Area (m2): 14914217.919999998 Source: Natural Resources Wales Reference: 255431wdw Designation Details: Mixed Biological And Geological Designation Date: 30th November 1995 Date Type: Notified	A6NE (W)	901	2	336628 341772
118	Special Areas of Conservation Name: River Dee And Bala Lake / Afon Dyfrdwy A Llyn Tegid (Wales) Multiple Areas: Y Total Area (m2): 11498849.64 Source: Natural Resources Wales Reference: UK0030252 Status: Designated	A6NE (W)	901	2	336628 341772

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Wrexham County Borough Council - Public Protection Department Shropshire Council - Environmental Health Department North Shropshire District Council (now part of Shropshire Council) - Environmental Health Department	April 2016 March 2015 October 2008	Annually Annually Not Applicable
Discharge Consents Environment Agency - Midlands Region Natural Resources Wales Environment Agency - Welsh Region	April 2019 April 2019 August 2014	Quarterly Quarterly Quarterly
Enforcement and Prohibition Notices Environment Agency - Midlands Region Environment Agency - Welsh Region	March 2013 March 2013	Annual Rolling Update Annual Rolling Update
Integrated Pollution Controls Environment Agency - Midlands Region Environment Agency - Welsh Region	October 2008 October 2008	Variable Variable
Integrated Pollution Prevention And Control Environment Agency - Midlands Region Environment Agency - Welsh Region Natural Resources Wales	April 2019 April 2019 April 2019	Quarterly Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Wrexham County Borough Council - Environmental Health Department North Shropshire District Council (now part of Shropshire Council) - Environmental Health Department Shropshire Council - Environmental Health Department	April 2014 June 2008 October 2014	Variable Not Applicable Variable
Local Authority Pollution Prevention and Controls Wrexham County Borough Council - Environmental Health Department North Shropshire District Council (now part of Shropshire Council) - Environmental Health Department Shropshire Council - Environmental Health Department	April 2014 June 2008 October 2014	Annual Rolling Update Not Applicable Annually
Local Authority Pollution Prevention and Control Enforcements Wrexham County Borough Council - Environmental Health Department North Shropshire District Council (now part of Shropshire Council) - Environmental Health Department Shropshire Council - Environmental Health Department	April 2014 June 2008 October 2014	Variable Not Applicable Variable
Nearest Surface Water Feature Ordnance Survey	January 2019	
Pollution Incidents to Controlled Waters Environment Agency - Welsh Region Environment Agency - Midlands Region	December 1998 December 1999	Not Applicable Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Midlands Region Environment Agency - Welsh Region Natural Resources Wales	July 2015 March 2013 March 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - Midlands Region Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013 March 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Registered Radioactive Substances Natural Resources Wales Environment Agency - Midlands Region Environment Agency - Welsh Region	January 2015 June 2016 June 2016	Annually
River Quality Environment Agency - Head Office	November 2001	Not Applicable

Agency & Hydrological	Version	Update Cycle
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - Midlands Region - Upper Severn Area Environment Agency - Midlands Region - West Area Environment Agency Wales - North Area Natural Resources Wales	April 2019 April 2019 April 2019 April 2019	Quarterly Quarterly Quarterly Quarterly
Water Abstractions Environment Agency - Midlands Region Environment Agency - Welsh Region Natural Resources Wales	April 2019 April 2019 April 2019	Quarterly Quarterly Quarterly
Water Industry Act Referrals Natural Resources Wales Environment Agency - Midlands Region Environment Agency - Welsh Region	April 2019 October 2017 October 2017	Quarterly Quarterly Quarterly
Groundwater Vulnerability Map Environment Agency - Head Office Natural Resources Wales	June 2018 June 2018	Annually Annually
Bedrock Aquifer Designations Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations Natural Resources Wales	January 2018	Annually
Source Protection Zones Natural Resources Wales	November 2016	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences Natural Resources Wales	February 2019	Quarterly
Flooding from Rivers or Sea without Defences Natural Resources Wales	February 2019	Quarterly
Areas Benefiting from Flood Defences Natural Resources Wales	February 2019	Quarterly
Flood Water Storage Areas Natural Resources Wales	February 2019	Quarterly
Flood Defences Natural Resources Wales	February 2019	Quarterly
OS Water Network Lines Ordnance Survey	January 2019	Quarterly
Surface Water 1 in 30 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water Suitability Natural Resources Wales	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Natural Resources Wales	July 2017	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Midlands Region Environment Agency - Welsh Region	October 2008 October 2008	Not Applicable Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Midlands Region - Upper Severn Area Environment Agency - Midlands Region - West Area Environment Agency Wales - North Area Natural Resources Wales	July 2018 July 2018 July 2018 July 2018	Quarterly Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - Midlands Region - Upper Severn Area Environment Agency - Midlands Region - West Area Environment Agency Wales - North Area Natural Resources Wales	April 2019 April 2019 April 2019 April 2019	Quarterly Quarterly Quarterly Quarterly
Local Authority Landfill Coverage North Shropshire District Council (now part of Shropshire Council) Shropshire County Council (now part of Shropshire Council) - Shropshire Records And Research Centre Wrexham County Borough Council	May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Wrexham County Borough Council North Shropshire District Council (now part of Shropshire Council) Shropshire County Council (now part of Shropshire Council) - Shropshire Records And Research Centre	June 2003 May 2000 May 2000	Not Applicable Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - Midlands Region - Upper Severn Area Environment Agency - Midlands Region - West Area Environment Agency Wales - North Area	March 2003 March 2003 March 2003	Not Applicable Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - Midlands Region - Upper Severn Area Environment Agency - Midlands Region - West Area Environment Agency Wales - North Area	March 2003 March 2003 March 2003	Not Applicable Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - Midlands Region - Upper Severn Area Environment Agency - Midlands Region - West Area Environment Agency Wales - North Area	March 2003 March 2003 March 2003	Not Applicable Not Applicable Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements North Shropshire District Council (now part of Shropshire Council) Shropshire Council - Planning Department Wrexham County Borough Council - Planning Department Shropshire County Council (now part of Shropshire Council)	February 2009 February 2016 February 2016 March 2009	Not Applicable Variable Variable Annual Rolling Update
Planning Hazardous Substance Consents North Shropshire District Council (now part of Shropshire Council) Shropshire Council - Planning Department Wrexham County Borough Council - Planning Department Shropshire County Council (now part of Shropshire Council)	February 2009 February 2016 February 2016 March 2009	Not Applicable Variable Variable Annual Rolling Update
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2019	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	April 2019	Quarterly
Fuel Station Entries Catalist Ltd - Experian	May 2019	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	July 2019	Quarterly
Points of Interest - Education and Health PointX	July 2019	Quarterly
Points of Interest - Manufacturing and Production PointX	July 2019	Quarterly
Points of Interest - Public Infrastructure PointX	July 2019	Quarterly
Points of Interest - Recreational and Environmental PointX	July 2019	Quarterly
Underground Electrical Cables National Grid	December 2015	

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	August 2018	Bi-Annually
Areas of Adopted Green Belt Shropshire Council - Planning Department	March 2019	As notified
Areas of Unadopted Green Belt Shropshire Council - Planning Department	March 2019	As notified
Areas of Outstanding Natural Beauty Natural England Natural Resources Wales	June 2019 June 2019	Bi-Annually Bi-Annually
Environmentally Sensitive Areas Natural England The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017 January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Wrexham County Borough Council Natural England	August 2018 March 2019	Bi-Annually Bi-Annually
Marine Nature Reserves Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves Natural Resources Wales	June 2019	Bi-Annually
National Parks Natural England Natural Resources Wales	April 2017 August 2018	Bi-Annually Annually
Nitrate Vulnerable Zones Natural Resources Wales The National Assembly for Wales - GI Services (Department of Planning & Countryside)	July 2017 October 2005	Bi-Annually
Ramsar Sites Natural Resources Wales	February 2019	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	March 2019	Bi-Annually
Special Areas of Conservation Natural Resources Wales	August 2018	Bi-Annually
Special Protection Areas Natural Resources Wales	August 2018	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Wrexham County Borough Council Lampet Street, Guildhall, Wrexham, Clwyd, LL11 1WL	Telephone: 01978 292000 Fax: 01978 292502 Website: www.wrexham.gov.uk
7	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
8	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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