

STRATA SURVEYS LIMITED

PHASE1 CONTAMINATED LAND RISK ASSESSMENT

REPORT NO. 15067

Land off Meredith Close

LL14 3RH

Issue : Final

Issue Date : 2nd February 2011

Strata House, Holmes Chapel Road, Middlewich, Cheshire. CW10 0JB
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REPORT NO. 15067

for

Ventura Developments Ltd

PO Box 3632

The Courtyard

Chester

CH1 9NH

compiled by

NF Johnson BSc.MSc.MIM³.C.Eng

Report Status	Desk Study	Issue Date	2nd February 2011
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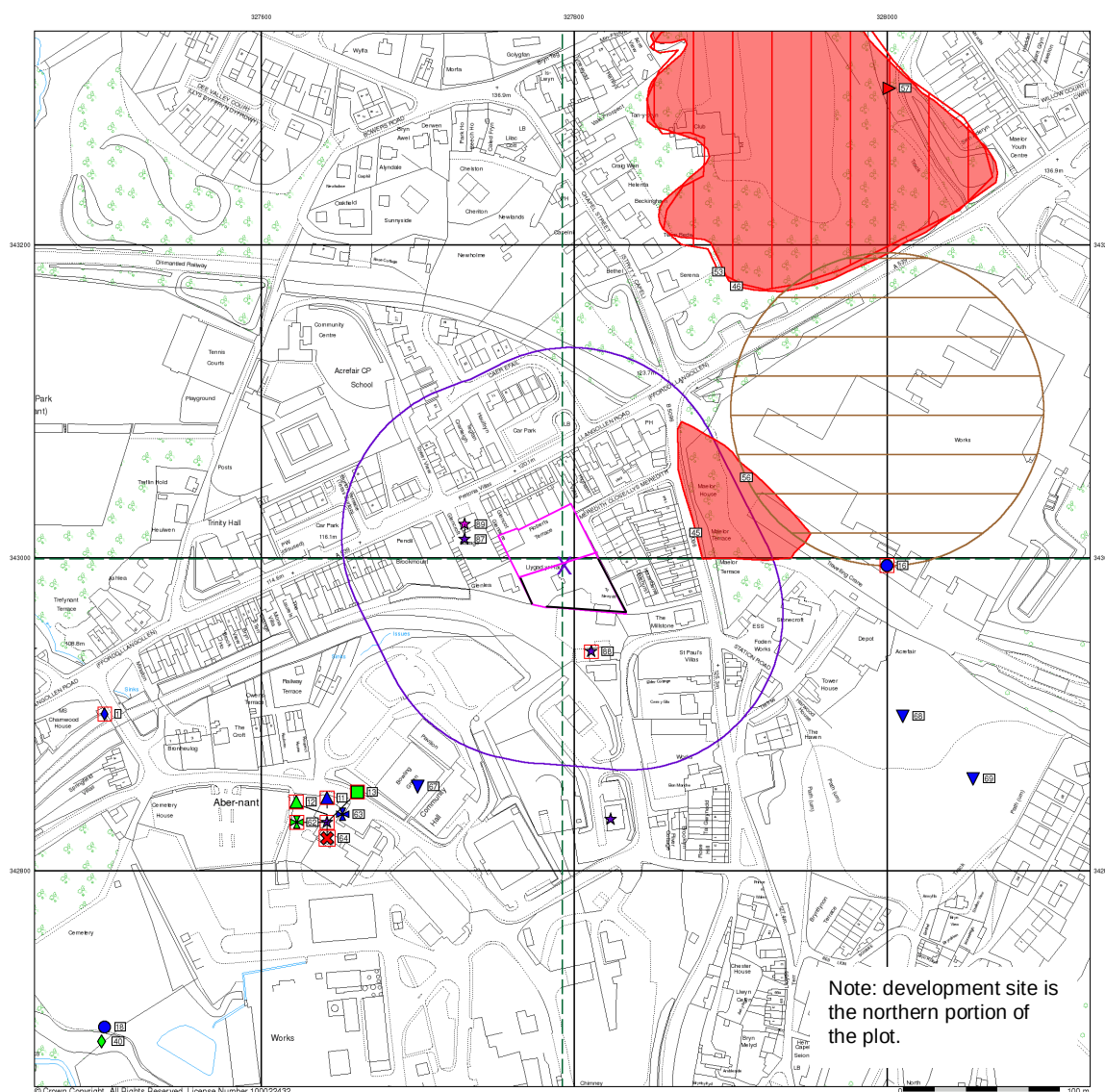
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1 DISCUSSION

This report is a preliminary risk assessment report that references an Envirocheck© Report prepared by Landmark Information Services and discusses a walkover study undertaken on 31st January 2011.

This report has been undertaken for Ventura Developments Limited for the assessment of the site for a residential redevelopment. The Wrexham Wrexham Council planning reference is P/2010/0820.

The National Grid reference is 327790, 343000 and covers an area of approximately 0.33 hectares.



Ventura Developments Limited have completed the Meredith Close residential development that lies to the east of the proposed development area. Details reports relating to the adjacent site have been reviewed and where appropriate discussed in this report.

2 SITE DESCRIPTION

The site lies to the rear of Roberts terrace (that front onto Llangollen Road) and to the north of Lygad yr Haul. The site formed the extended garden to the house Lygad yr Haul. The site gently slopes from the south to the north.

The aerial photograph below shows the general site arrangement.



The site is now roughly vegetated and some general site preparation works have been undertaken locally clearing vegetation.



View of the north west corner, note trial pit excavated for infiltration assessment.



View to the north east showing the proposed access on to site from Meredith Close.



3 ENVIROCHECK REPORT©

The original Envirocheck© report is presented in the appendices of this volume.

The Envirocheck© report is a compilation of:

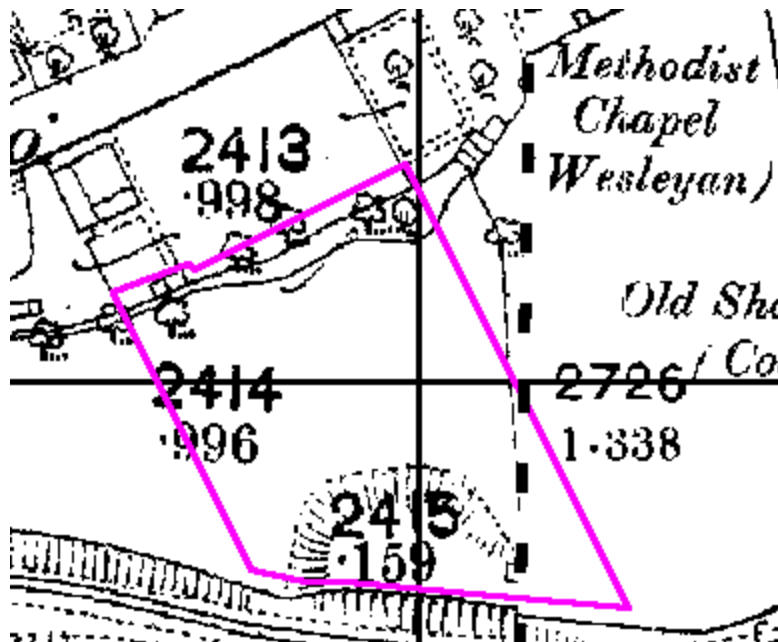
- Historical Ordnance Survey plans from 1:105600, 1:2500 and 1:1250 scales
- Public environmental records from Environment Agency, British Geological Survey and, Wrexham Council.
- Flooding information and river quality information from Environment Agency
- Landfill sites from British Geological Survey and Environment Agency.
- Hazard substances storage and uses information from Wrexham Council.
- Geological Information from British Geological Survey
- Sensitive land uses from Wrexham Council, Natural England and DEFRA
- Industrial Land uses from Thompsons Directory and Catalist Ltd

4 HISTORICAL SETTING

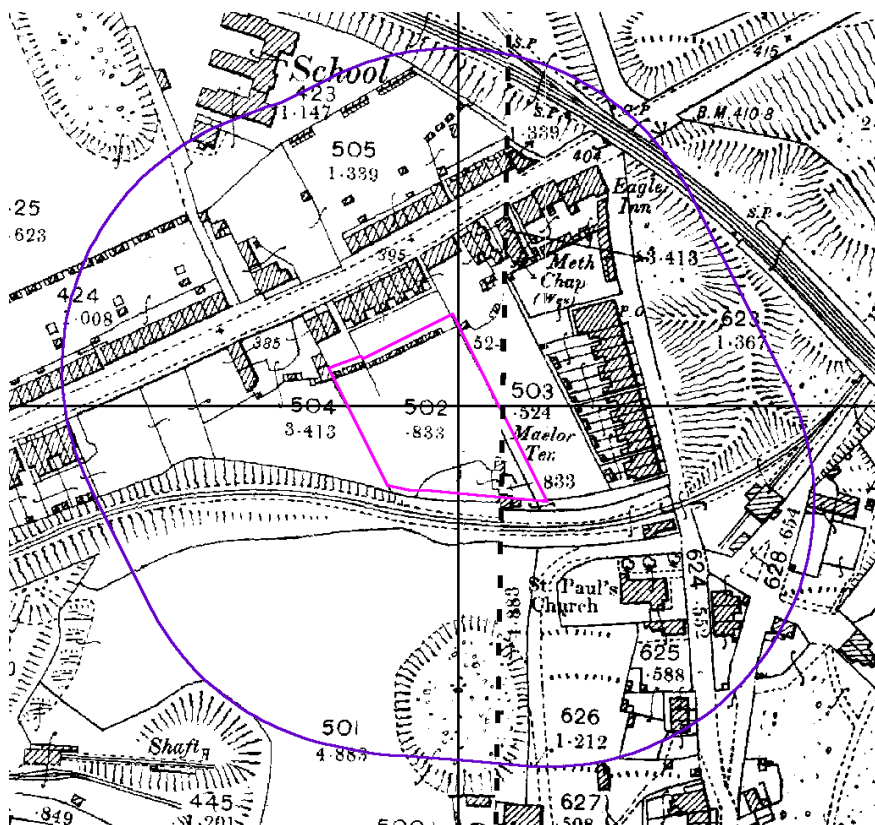
The earliest 1:2500 mapping is dated 1874 and shows the Acrefair area to be heavily industrialised with iron works and old coal shafts present around the plot area.



The plot area is shown to be open area with no buildings. The railway has a small embankment to the north of the rail line that encroaches on to the plot area. The plan shows that on the northern boundary what may be a stream course or linear pond.



The 1899 mapping shows the site has had a line of outbuildings along the boundary to Roberts terrace. The rest of the site remains open.



There is no change on the 1812 map.

The 1962/63 mapping shows that the plot has been built on with Lygad Haul. The rest of the site is unchanged. It should be noted that the site boundary to Glencoe and Glenacre our lap with the plot area. In the northern eastern corner of the plot is shown an outbuilding (adjacent to Higham Villas).

To the northwest corner of the development plot the petrol station site is shown with a run of lockup garages on the site boundary.

The plan also shows that a residential property "Glenlea" has been constructed on the northern edge of the railway embankment.



The later plans shows no significant changes on the site.

5 SITE GEOLOGY AND MINING ISSUES

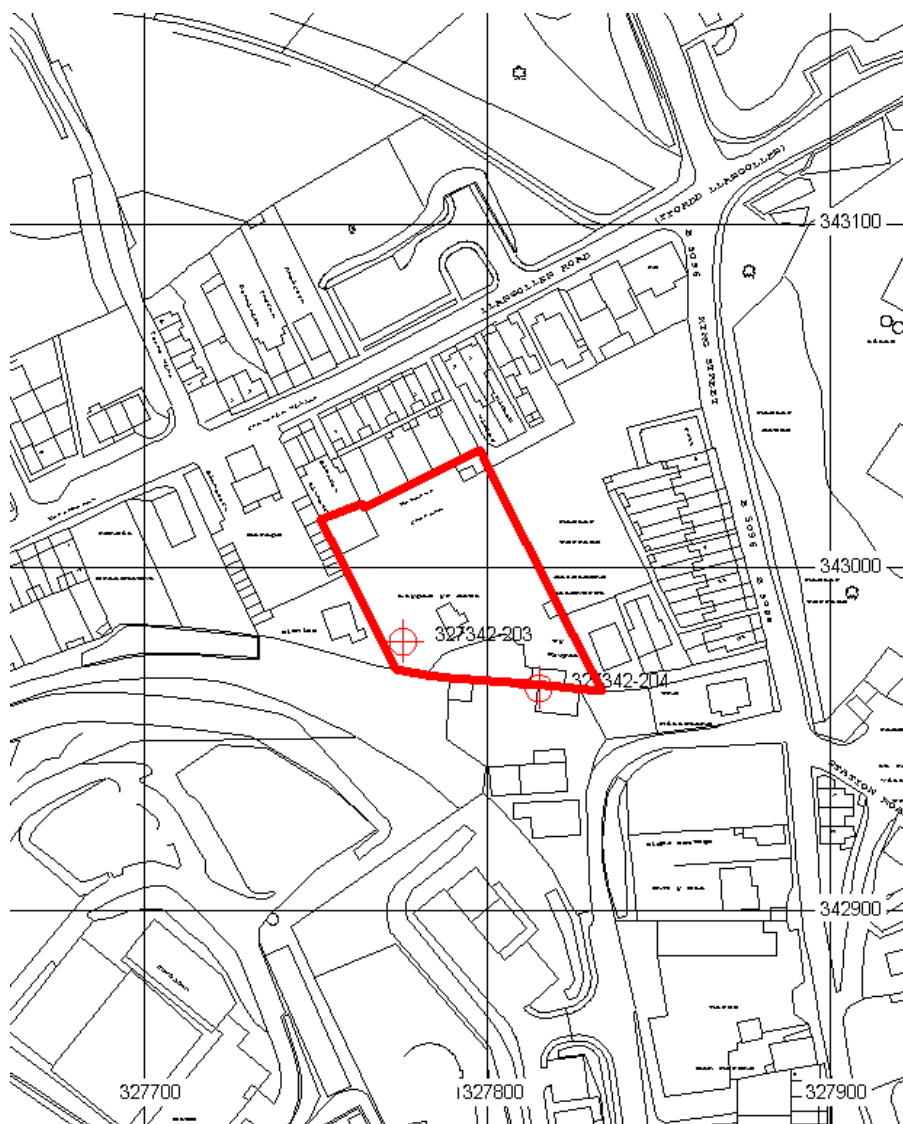
The published British Geological Survey (BGS) map Sheet 121 Wrexham (1inch to 1mile) shows the site underlain by Drift comprising Glacial Till which overlies bedrock consisting Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation.

The 1:10000 sheet () shows that there are three coal seams in the area of the plot. These are Yard Coal, Stone Coal and the Brassy Coal, sub-outcropping from west to east. There is a gentle dip of the seams towards the east. Thus the site will be underlain by the Stone and Yard Coal.

The productive strata of the Acrefair, Abernant and Ruabon area include coal, ironstone and

The GroundSolve Limited Report, Ref Shaft Report Issue February 10 included extracts from the coal Authority Abandonments Plans for records that are present in the area. The extracts of the abandonment plans show a seam dip of 1 v 6h towards the west south-south west.

The coal authority report (see appendix) shows that there are two shafts in the plot area but not in the development zone. It is possible that shaft entry 327342-203 may be in influencing distance of Plot 1 if the depth to rock head is deep.



The Coal Authority Report No 00004680-05 shows where there was a shaft that impacted on the Meredith Close development.

JANET JENKINS,
PROPERTY SEARCH GROUP,
1 LIVERPOOL ROAD NORTH,
LIVERPOOL,
MERSEYSIDE,
L31 2HB

This matter is being dealt with by Simon Leeming

Our Ref: **00004680-05**

Your Ref: BW SMD JSB 0057142 BROADHURST

Electronic Ref: EME_00002415040003_005

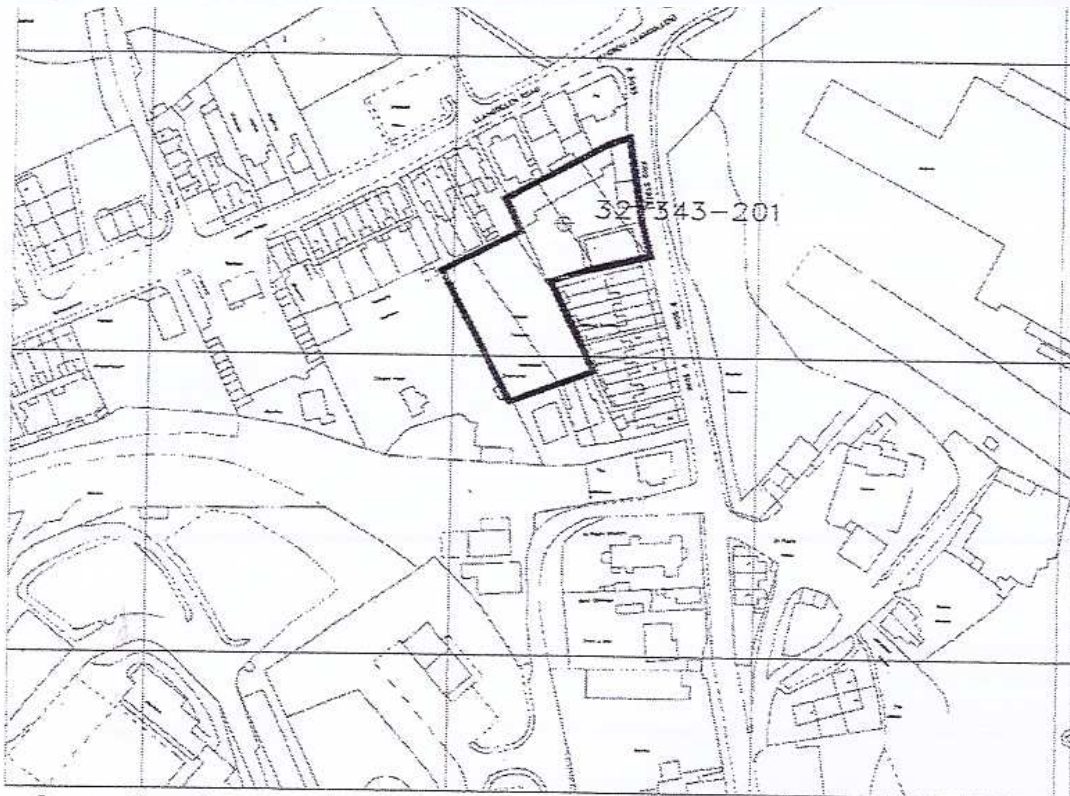
RRUID: 005.00002415040003

Date: 25 February 2005

Dear Sir,

Coal Mining Report

MAELOR HOUSE, KING STREET, ACREFAIR, WREXHAM, CLWYD, LL14 3RH



6 SITE HYDROGEOLOGY

The groundwater vulnerability map, Sheet 16 West Cheshire, shows the site to be underlain by Secondary – A These aquifers contribute to river base flow.

Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium. Unproductive aquifer designation.

The nearest surface water feature is 90m to the south west, no other details are provided. It should be noted that there is a culvert running along the northern boundary of the site. The detailed 1:2550 mapping in the Site Sensitivity map shows a stream course to “issue” in the general area.

From 1 April 2010 The Environment Agency Groundwater Protection Policy will be using aquifer designations that are consistent with the Water Framework Directive. These designations reflect the importance of aquifers in terms of groundwater as a resource (drinking water supply) but also their role in supporting surface water flows and wetland ecosystems.

Principal Aquifers - These are 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.

These include a wide range of rock layers or drift deposits with an equally wide range of water permeability and storage. Secondary aquifers are subdivided into two types:

Secondary A - 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;

Secondary B - predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers.

Secondary Undifferentiated - has been assigned in cases where it has not been possible to attribute either category A or B to a rock type. In most cases, this means that the layer in question has previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type.

Unproductive Strata - These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.

7 ENVIRONMENTAL ISSUES.

There are no database references within the site boundary.

The Site Sensitivity sheet shows that on the northwest boundary of the site The Garage Llangollen Road, Acrefair, Wrexham, Clwyd, LL14 3RS Active Petrol Filling Stations (reference 87 89).

The Site Sensitivity Sheet shows that to the east of King Street, is a registered landfill (45 and 56)

Licence Holder:	Air Products UK Limited	Licence Holder:	Air Products Ltd
Location:	Llangollen Road, Wrexham, Acrefair	Licence Reference:	L58
Name:	Air Products	Site Location:	Llangollen Road, Acrefair, Wrexham, Clwyd
Operator Location:	Not Supplied	Licence Easting:	328000
Boundary Accuracy:	As Supplied	Licence Northing:	343095
Provider Reference:	EAHLD14748	Operator Location:	As Site Address
First Input Date:	1st September 1977	Authority:	Environment Agency Wales, North Area
Last Input Date:	31st December 1991	Site Category:	Landfill
Specified Waste	Deposited Waste included Inert and Industrial Waste	Max Input Rate:	Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year)
Type:	Not Supplied	Waste Source	No known restriction on source of waste
EA Waste Ref:	Not Supplied	Status	Licence lapsed/cancelled/defunct/not applicable/surrendered cancelled
Regis Ref:	6955/0002	Dated:	1st February 1992
WRC Ref:	Not Supplied	Preceded By	Not Given
BGS Ref:	WMBC L/8, WMBC L/58	Superseded	Not Given
		Positional Accuracy:	Manually positioned to the road within the address or location
		Boundary Accuracy:	Not Applicable
		Authorised Waste	Hardcore/Concrete

It should be noted that this land fill includes a portion of land that formed the railway embankment to the railway (GWR Llangollen Branch) that crossed the road on a north west – south west alignment. The land is at a higher elevation than the development site and is thus migration of harmful ground gases would through the embankment face and not through the existing ground below King Street.

The site is in an area where less than 1% of homes are above the action level for radon, therefore no radon protection measures are necessary.

The site is not within an area of sensitive land use.

The site is not located within an area at risk from flooding from rivers with out or with defences.

The following table is an extract of the geological details of the Envirocheck© report.

Coal Mining Affected Area	The property is in the likely zone of influence from workings in 6 seams of coal at shallow to 170m depth, and last worked in 1912. <i>Note1</i>
Mine Entries	From current CA reports there are three mine entries in the immediate vicinity of the plot but none on the development plot. It is possible that shaft entry 327342-203 may be in influencing distance of Plot 1 if the depth to rock head is deep.
Mining other than Coal	Occasional
Potential for Collapsible Ground Stability Hazards	No Hazard
Potential for Compressible Ground Stability Hazards	No Hazard
Potential for Ground Dissolution Stability Hazards	High (<i>Note 1</i>)
Potential for Landslide Ground Stability Hazards	Very Low
Potential for Running Sand Ground Stability Hazards	Very Low
Potential for Shrinking or Swelling Clay Ground Stability Hazards	Very Low
Mining Instability	Inconclusive
Radon	The property is in a radon affected area, as between 3 and 5% of homes are above the action level Basic radon protective measures are necessary in the construction of new dwellings or extensions

Note1: The Coal Authority Mining report is appended.

8 RISK ASSESSMENT

Part IIA of the EPA 1990 introduced on the 1st April 2000 and the relevant planning guidance requires that a staged approach to the assessment of the potential risk a development site may pose to the intended final use after development.

The Definition in Part IIA:

2.1 Section 78A(2) defines CONTAMINATED LAND for the purposes of Part IIA as:

"any land which appears to the LOCAL AUTHORITY in whose area it is situated to be in such a condition, by reason of substances in, on or under the land, that -

"(a) SIGNIFICANT HARM is being caused or there is a SIGNIFICANT POSSIBILITY of such harm being caused; or

"(b) POLLUTION OF CONTROLLED WATERS is being, or is likely to be, caused".

In assessing the potential risk of environmental impact the CLR 11 (Model Procedures for the management of Land Contamination) Source – Pathway – Receptor Model is followed.

RISK ASSESSMENT FOR GAS HAZARD

The site has been assessed using the criteria given in BS8485 "Code of Practice for characterisation and remediation from ground gas in affected developments", CIRIA Report 659 "Assessing risks posed by hazardous ground gases" and NHBC Report 04-2007 "Guidance on the evaluation of development proposals on sites where methane and carbon dioxide are present"

The site is located in an area that was formerly the extended garden to the house Llygad yr Haul. The report Site Sensitivity map shows an area of land fill to the east associated with the Air Products manufacturing site. This filled ground lies to the east of King Street and at a higher elevation than the development site. The embankment used to form part of the railway line (GWR Llangollen Branch) that passed over the main road to the area of the former factory.

It is considered that there is a low risk of harmful ground gases that may be attributed to the recorded landfill site.

The photograph shows the old embankment on the left of King Street. The development site lies to the rear of the properties that front Llangollen Road.



To the north west of the development site is the petrol station that serves the village with the line of lockups. It is considered that there is a low risk that leakage of fuel from the petrol station or from the lockups present a vapour risk to the proposed development area.

RISK ASSESSMENT FOR HUMAN HEALTH

The development site lies with the plot of Llygad yr Haul and occupied the extended garden of the house. The general area can be seen to have had major industrial activity of coal/ironstone/fireclay mining and extensive iron foundries.

During the walkover inspection it was apparent that the northerly portion of the plot has been covered or uplifted with imported mudstone shale and cinder and ash. If a mineshaft is located to the southern edge of the development plot then the mudstone shale may have originated from the shaft sinking.

There is a potential risk that contaminated soils are present on the site and the contaminants that are contained in these soils would pose a Significant Possibility of Significant Harm (SPOSH) to the end use of the development.

RISK TO CONTROLLED WATERS

As noted above there is a culverted stream that runs along the northern boundary of the site. It is also considered that a Soak away will be operated to remove surface water as part of a Sustainable Urban Drainage scheme (SUDS). If there are leachable compounds in the Made Ground soils these may impact on the culvert water or old stream course drainage.

SOURCE CHARACTERISATION

Type of Risk Assessment	Source	Pathway	Receptor	Remarks
Water Resources	Impacted Soils	Migration of leachate	Culverted stream and Issue 90m to the south west	It is considered that is a minor risk that additional leaching of soluble contamination in the Made Ground may be exacerbated by the adoption of a SUDS soakaway. It is not anticipated that there is any shallow ground to the site.
	Impacted Groundwater	Migration of groundwater	Culverted stream and Issue 90m to the south west	
Human Health	Soil gases	Inhalation of indoor air	Site Workers Site Residents Off Site Residents	Considered low risk from the recorded landfill. Low risk associated with the adjacent petrol filling station and lockups.
	Impacted Soils	Inhalation of dust		It is considered that there is a moderate risk that the Made Ground soils on the site have an origin that could include harmful compound from coal ashes and foundry slag./ash and clinker
		Direct Ingestion		
		Direct dermal contact		
		Vegetable Ingestion		
	Impacted Groundwater	Inhalation of indoor vapours		It is considered that there is a low risk or impacted groundwater in the Made Ground soils that would pose a risk to the proposed end use
		Direct Ingestion		
		Direct dermal contact		
Building and services	Soil Gases	Migration through floor slab	Site Workers	Not to be considered to be a harmful ground gases that would impact on the proposed development. Radon, it will be a requirement to adopt full radon protection measures to the development. A polymer mitigation barrier with vented underfloor area will deal with both the radon and other ground gases. The installation will require an installation verification report.
			Site Residents Off site Residents	

9 FURTHER INVESTIGATION

The Phase II investigation requirements should comprise comprehensive soil sampling and routine testing.

It is understood that the development proposal comprises a five houses with private gardens and associated soft and hard landscaping in the communal areas.

The investigation of the potential contaminated land risk should comprise a combination of :

- o Small diameter Continuous Dynamic Sample boreholes, soils are recovered in full 1m length rigid PVC tubes. We would suggest that there will be one sample location for each enclosed garden area and two locations of the communal soft landscaped area.
- o Samples from two deeper light cable percussion boreholes for the geotechnical assessment and foundation design.
- o Trial pits targeted to the area of the southern boundary nearest the Coal Authority report mine entry.

Analysis should include testing for the following contaminants by a laboratory with MCERTS accreditation:

A suitable number soil samples will be selected for the Standard Soil Suite. Based on the development a minimum of 6No samples would be selected for a package analysis. We would recommend that two soil samples from the deeper Made Ground would be selected for Leachate Preparation and a Standard Soil Suite Analysis to determine the potential off site migration of leachable contamination.

Asbestos screening may be necessary if there is any visually identified asbestos or other related fibres in the samples (allow 2 samples for initial assessment).

Standard Soil Suite

Total Metals : As, Cd, Cr, Pb, Hg, Se, Cu ,Ni, Zn Water Soluble Boron (1) Hexavalent Chromium Total Cyanide Free Cyanide Thiocyanate Total Sulphate Sulphide Total Sulphur pH Poly Aromatic Hydrocarbons (PAH) 16 USEPA Priority Pollutants by GC Phenols
Leachate preparation and Standard Soil suite to assess of site migration risk Speciated Total Petroleum Hydrocarbon (TPH) Visual Identification of suspicious fibres Asbestos testing may be required if suspicious fibres are identified in samples

Although not related to the Phase 1 Contaminated land Risk Assessment drilling will be required to assess the deep geology and determine the risk of shallow mining voids.

The deeper investigation boreholes should be drilled to a minimum depth of 30m. Routine ground gas monitoring should be carried out during the deep borehole drilling.

Coal Authority will require that the borehole are drilled using water as a flush.

Coal Authority Report

Issued by:

The Coal Authority, Mining Reports Office, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire NG18 4RG
ON-Line Service: www.groundstability.com - Phone: 0845 762 6848 - DX 716176 MANSFIELD 5

CUSTOMER SERVICES,
LANDMARK INFORMATION GROUP LIMITED,
ABBAY COURT UNIT 5/7,
EAGLE WAY,
SOWTON INDUSTRIAL ESTATE,
EXETER,
DEVON,
EX2 7HY

Person dealing with this matter:	Louise Tipper
Our reference:	00006147-11
Your reference:	33719359
Electronic Ref:	EME_00015324760003_005
RRUID:	005.00015324760003
Date of your enquiry:	31 January 2011
Date we received your enquiry:	31 January 2011
Date of issue:	01 February 2011

This report is for the property described in the address below and the attached plan.

Non-Residential Coal and Brine Report

Site At Llygad Haul, King Street, Acrefair, Wrexham, Clywd

This report is based on and limited to the records held by, the Coal Authority, and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Coal mining	Yes
Brine Compensation District	No

Information from the Coal Authority

Underground Coal Mining

Past

The property is in the likely zone of influence from workings in 6 seams of coal at shallow to 170m depth, and last worked in 1912.

Present

The property is not in the likely zone of influence of any present underground coal workings.

Future

The property is not in an area for which the Coal Authority is determining whether to grant a licence to remove coal using underground methods.

The property is not in an area for which a licence has been granted to remove coal using underground methods.

The property is not in an area that is likely to be affected at the surface from any planned future workings.

However reserves of coal exist in the local area which could be worked at some time in the future.

No notice of the risk of the land being affected by subsidence has been given under section 46 of the Coal Mining Subsidence Act 1991.

Mine entries

Within, or within 20 metres of, the boundary of the property there are 2 mine entries, the approximate positions of which are shown on the attached plan.

There is no record of what steps, if any, have been taken to treat the mine entries.

Records may be incomplete. Consequently, there may exist in the local area mine entries of which the Coal Authority has no knowledge.

Coal-mining geology

The Authority is not aware of any evidence of damage arising due to geological faults or other lines of weakness that have been affected by coal mining.

Opencast Coal Mining

Past

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

Present

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

Future

The property is not within 800 metres of the boundary of an opencast site for which the Coal Authority is determining whether to grant a licence to remove coal by opencast methods.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

Coal-mining subsidence

The Coal Authority has not received a damage notice or claim for the property since 1 January 1984. There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

There is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the property.

Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

Withdrawal of Support

The property is not in an area for which a notice of entitlement to withdraw support has been published.

The property is not in an area for which a notice has been given under section 41 of the Coal Industry Act 1994, revoking the entitlement to withdraw support.

Working Facilities Orders

The property is not in an area for which an Order has been made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

Payments to Owners of Former Copyhold Land

The property is not in an area for which a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Comments on Coal Authority information

In view of the mining circumstances a prudent developer would seek appropriate technical advice before any works are undertaken.

Therefore if development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority. Developers should be aware that the investigation of coal seams/ former mines of coal may have the potential to generate and/or displace underground gases and these risks both under and adjacent to the development should be fully considered in developing any proposals. The need for effective measures to prevent gases entering into public properties either during investigation or after development also needs to be assessed and properly addressed. This is necessary due to the public safety implications of any development in these circumstances.

The attached plan shows the approximate location of the disused mine entry/entries referred to in this report. For reasons of clarity, mine entry symbols may not be drawn to the same scale as the plan. Property owners have the benefit of statutory protection (under the Coal Mining Subsidence act 1991*). This contains provision for the making good, to the reasonable satisfaction of the owner, of physical damage from disused coal mine workings including disused coal mine entries. A leaflet setting out the rights and the obligations of either the Coal Authority or other responsible persons under the 1991 Act can be obtained by telephoning 0845 762 6848 or online at www.coal.gov.uk/services/subsidence. If you wish to discuss the relevance of any of the information contained in this report you should seek the advice of a qualified mining engineer or surveyor. If you or your adviser wish to examine the source plans from which the information has been taken these are normally available at our Mansfield office, free of charge, by prior appointment, telephone 01623 637233. Should you or your adviser wish to carry out any physical investigations that may enter, disturb or interfere with any disused mine entry the prior permission of the owner must be sought. For coal mine entries the owner will normally be the Coal Authority.

The Coal Authority, regardless of responsibility and in conjunction with other public bodies, provide an emergency call out facility in coalfield areas to assess the public safety implications of mining features (including disused mine entries). Our emergency telephone number at all times is 01623 646333.

*Note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Additional remarks

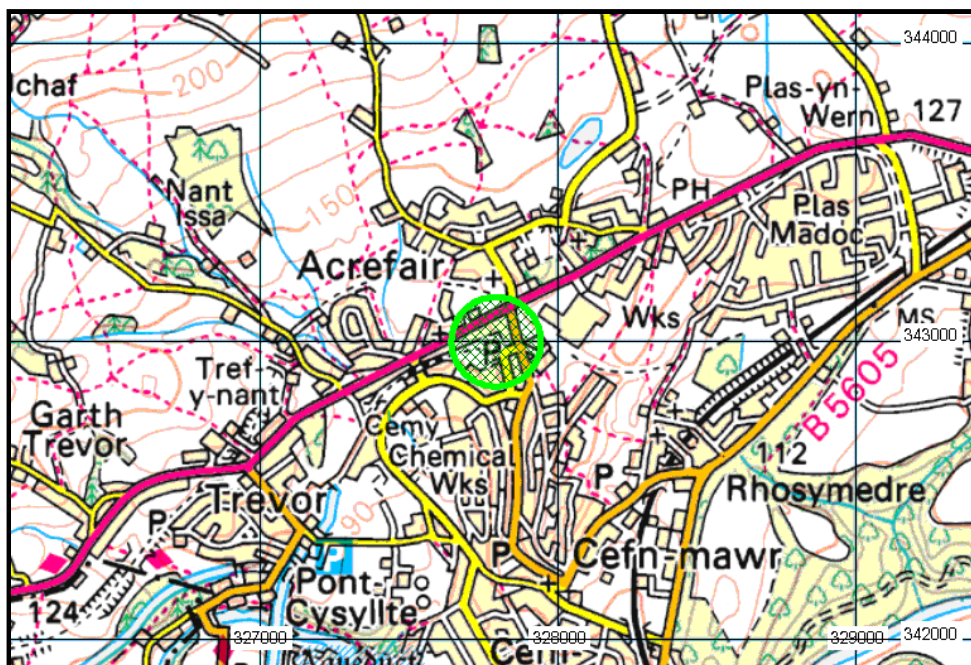
This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions 2006. The report is compliant with Home Information Pack requirements.

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Location map



Approximate
position
of property



Enquiry boundary

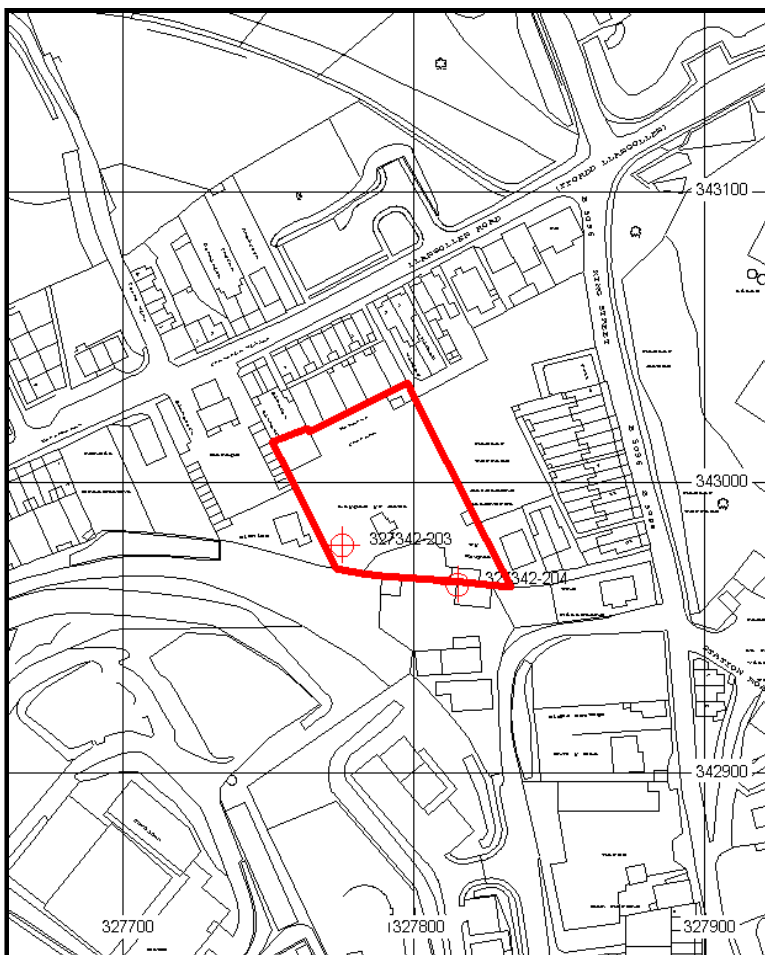
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Key

Approximate position of enquiry boundary shown

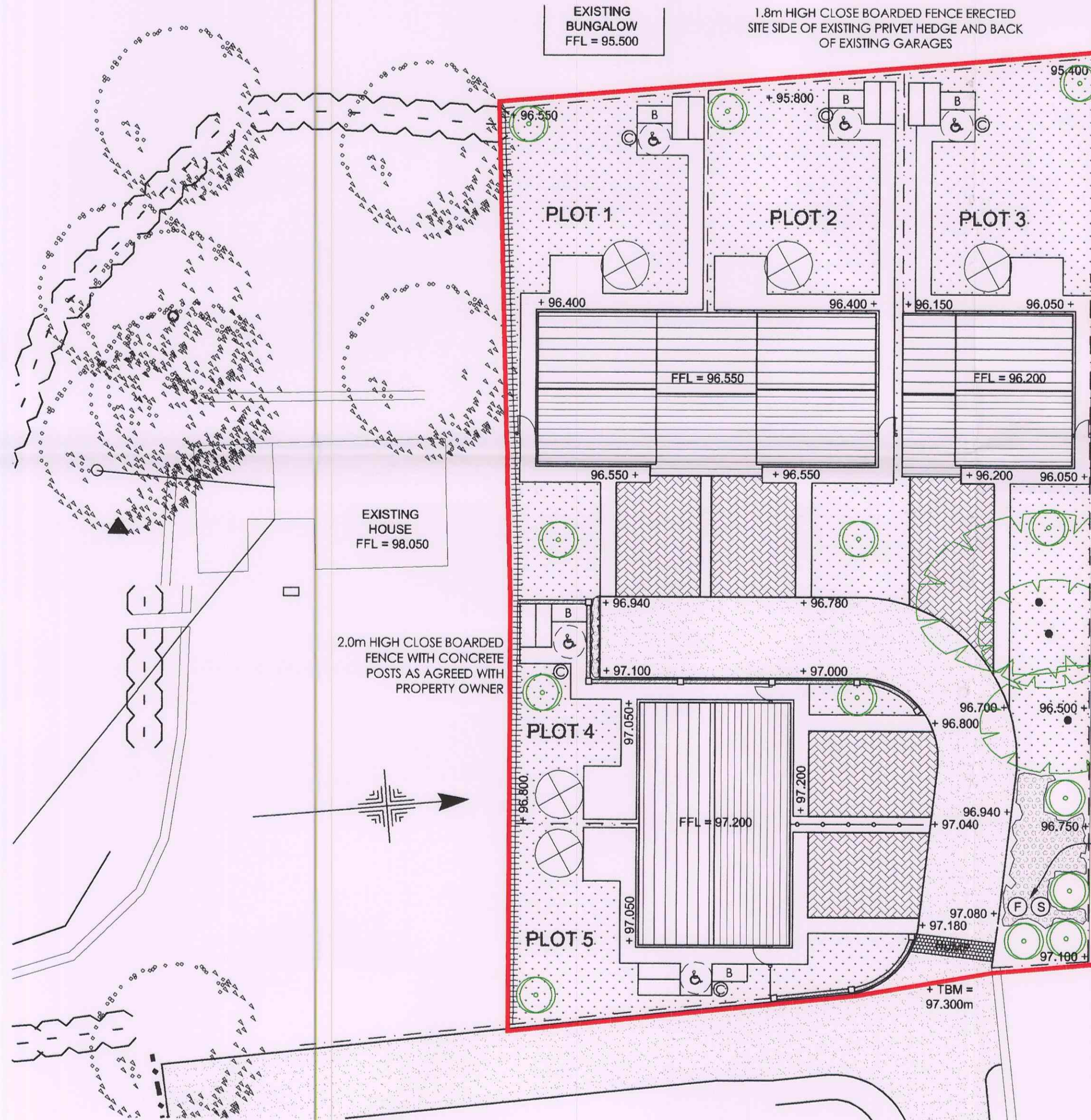


Disused Adit or Mineshaft



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Development Proposal



- 1.8m HIGH CLOSE
BOARDED FENCE
ERECTED SITE SIDE OF
EXISTING STONE
BOUNDARY WALL

NEW MANHOLES TO
CONNECT INTO EXISTING
SEWERS

EXISTING
HOUSE
FFL = 97.350

WREXHAM COUNTY
BOROUGH COUNCIL
27 SEP 2010
TRAINING DEPARTMENT

REV	DATE	DESCRIPTION	BY

Drawing Status
PLANNING



CHARLTON HOUSE DRAYTONS PASSAGE SHOPLATCH SHREWSBURY SY11HF T: 01743 341438 F: 01743 341441 E: design@munro-associates.com	CRAIGHMOR 6 CROFTCROY CROFTINGLOAN PITLOCHRY PH16 5TG T: 01796 473234 F: 01796 473234 E: design@munro-associates.com
--	--

Client
VENTURA DEVELOPMENTS LTD

Project
**GARDEN PLOT,
KING STREET,
ACREFAIR,
WREXHAM**

Scale
1:200 @ A2

Date
SEPT '10

Drawn
NTJ

Drawing Title
PROPOSED SITE PLAN

Project No. 210	Drawing No. P.102	Revision
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P / 2010 / 0820

Planting Schedule

Location	Species	Size
1	Alnus glutinosa "Aurea"	12-14cm girth
2	Betula pendula	12-14 cm girth
3	Acer platanoides	12-14 cm girth
4	Prunus domestica 'Yellow Pershore'	2 years old
5	Malus domestica	2 year old
6	Aesculus carnea	12-14cm girth
7	Betula pendula	12-14 cm girth
8	Aesculus carnea	12-14cm girth
9	Betula pendula	12-14 cm girth
10	Morus nigra	12L 1.25-1.5m
11	Malus domestica	2 year old
12	Acer platanoides	12-14 cm girth
13	Morus nigra	10-12cm girth
Underplanting	4 x Corylus avellana, 4 x Acer campestre	60-80cm bare root 125-175 feathered

EXISTING

PLOT 1

PLOT 2

PLOT 3

PLOT 4

PLOT 5

APPROX SITE AREA = 0.4 Acres

WREXHAM COUNTY
BOROUGH COUNCIL
27 SEP 2010
PLANNING DEPARTMENT



Tree Health Consulting Ltd
3 Blackberry Way, Woodseaves, Stafford, ST20 0QZ
Tel: (01785) 284101 Mobile: 07984 674659
e-mail: Andy@treehealthconsulting.co.uk
Web: www.treehealthconsulting.co.uk

Site: Acrefair	1-200@A2
Drawing Title: Planting Plan	Rev A, Sept 2010

Key:

 Existing Trees

 Proposed Planting

 Tree Position Approximate
(not shown on original survey)

P / 2010 / 0820



SECTION A/A



SECTION PLAN

NOTES:
ALL DIMENSIONS TO BE CHECKED AND CONFIRMED ON SITE PRIOR TO ANY WORKS OR FABRICATION.
DO NOT SCALE OFF THIS DRAWING.
ANY ERRORS, OMISSIONS OR DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF MUNRO ASSOCIATES IMMEDIATELY.

REV	DATE	DESCRIPTION	BY

Drawing Status

PLANNING



CHARLTON HOUSE DRAYTONS PASSAGE SHROPSHIRE ST1 1HF
T: 01743 341438 F: 01743 341441 E: design@munro-associates.com
CRAIGMHOR 6 CROFTCROFT CROFTINLOAN PITCHORY PH16 5TG
T: 01796 473234 F: 01796 473234 E: design@munro-associates.com

Client
VENTURA DEVELOPMENTS LTD

Project
**GARDEN PLOT,
KING STREET,
ACREFAIR,
WREXHAM**

Scale
1:200 @ A2

Date
20.05.10

Drawn
NTJ

Drawing Title
PROPOSED SITE SECTION

Project No.
210

Drawing No.
P.206

Revision

WREXHAM COUNTY BOROUGH COUNCIL
27 SEP 2010
PLANNING DEPARTMENT

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P / 2010 / 0820

Site Investigation Layout

Envirocheck Legend

General

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

Agency and Hydrological

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

Waste

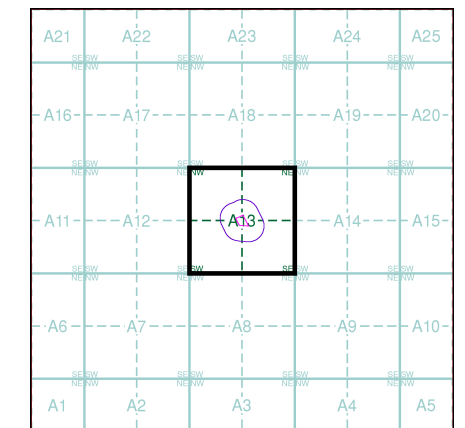
- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
-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

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement
- BGS Recorded Mineral Site
- Contemporary Trade Directory Entry
- Fuel Station Entry

Industrial Land Use

Site Sensitivity Map - Segment A13

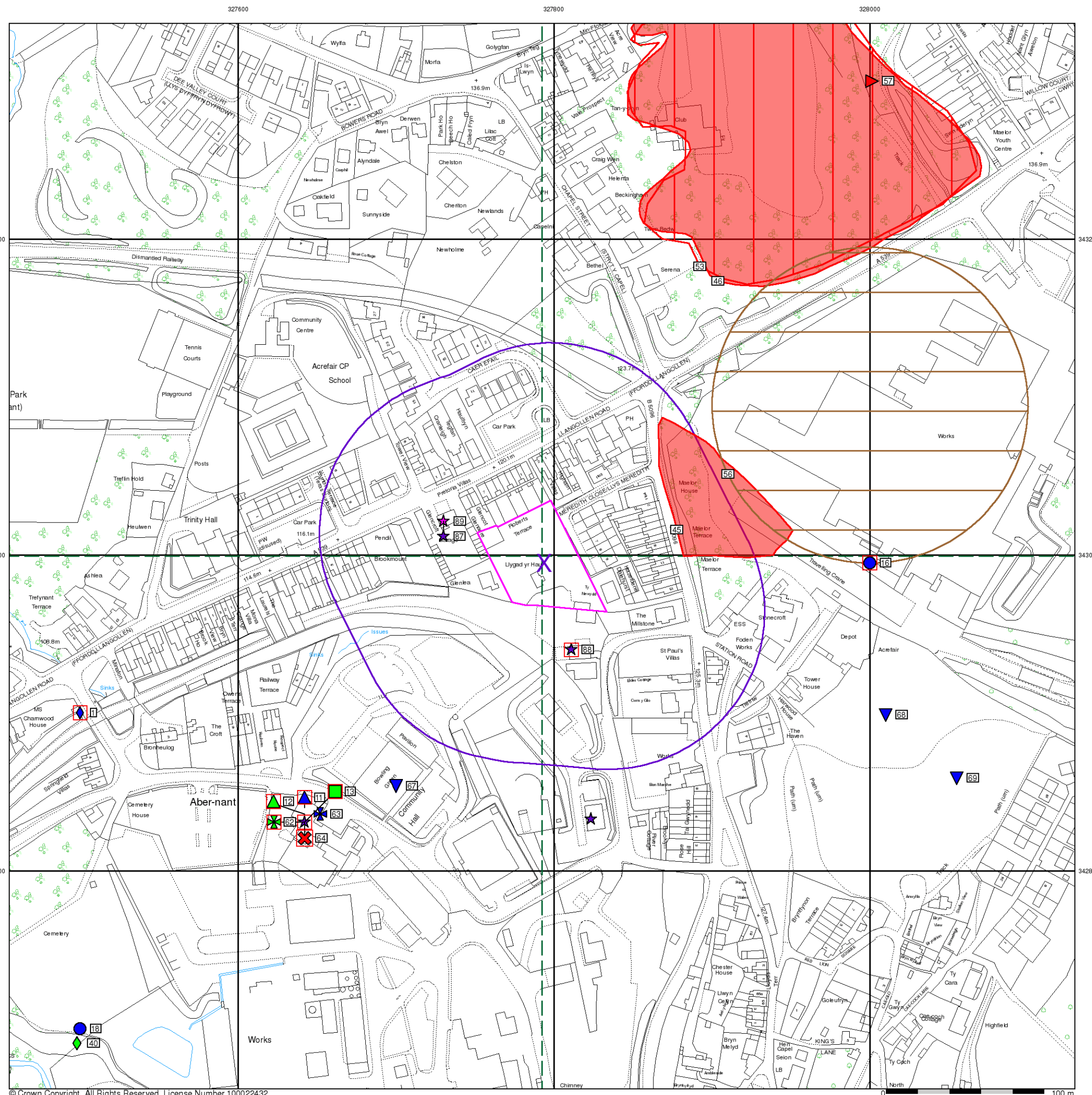


Order Details

Order Number: 33719359_1_1
 Customer Ref: 15067
 National Grid Reference: 327790, 343000
 Slice: A
 Site Area (Ha): 0.33
 Plot Buffer (m): 100

Site Details

Llygad Haul, King Street, Acrefair, Wrexham, LL14 3RH



General

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

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
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- Pollution Incident to Controlled Waters
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Waste

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- Registered Waste Transfer Site (Location)
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- Registered Waste Treatment or Disposal Site

Hazardous Substances

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

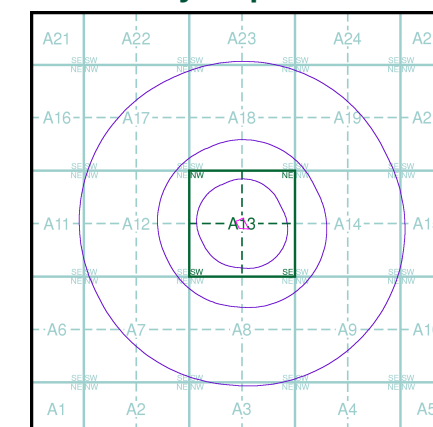
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Slice A

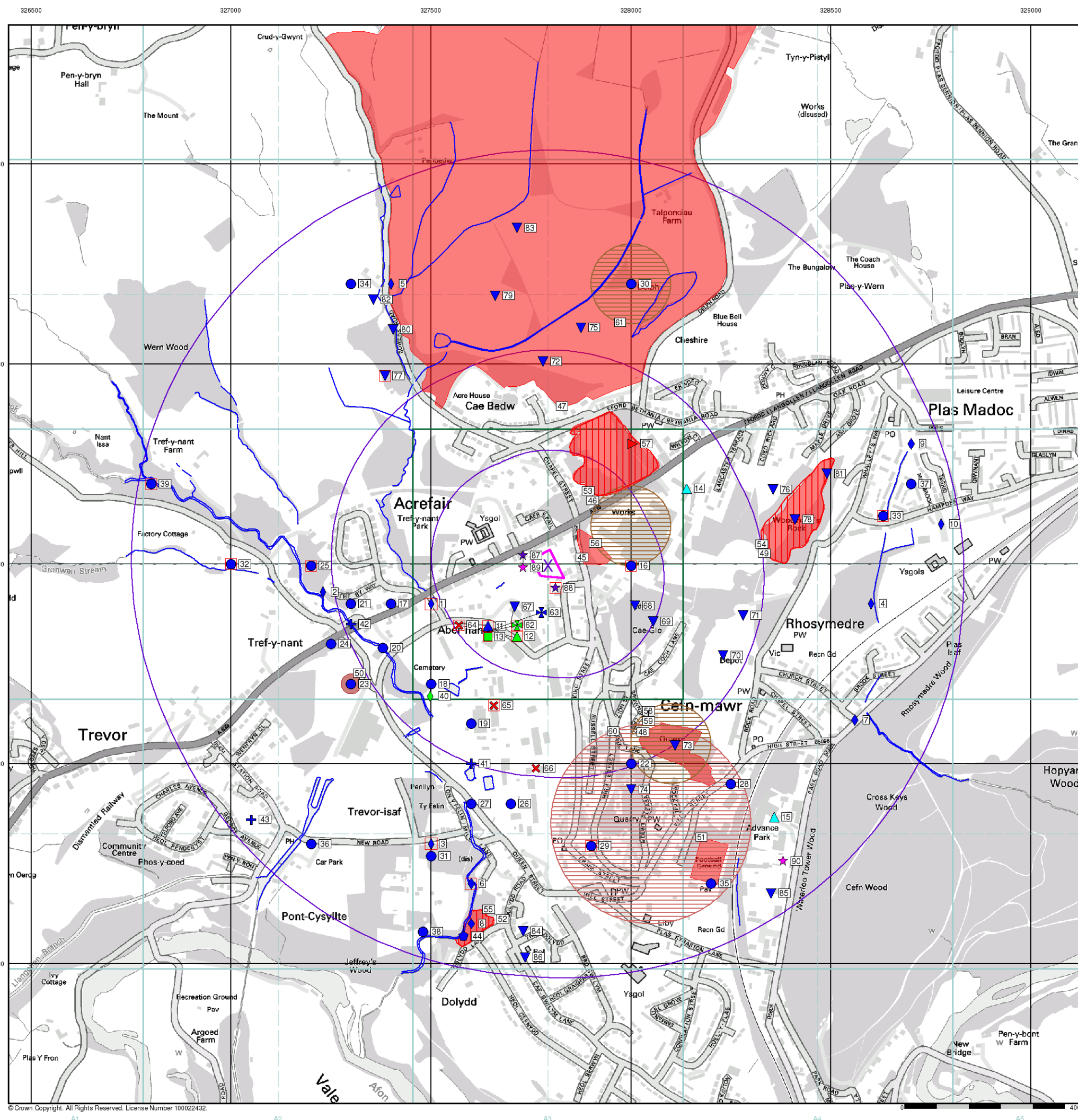


Order Details

Order Number: 33719359_1_1
 Customer Ref: 15067
 National Grid Reference: 327790, 343000
 Slice: A
 Site Area (Ha): 0.33
 Search Buffer (m): 1000

Site Details

Llygad Haul, King Street, Acrefair, Wrexham, LL14 3RH



Flood Map

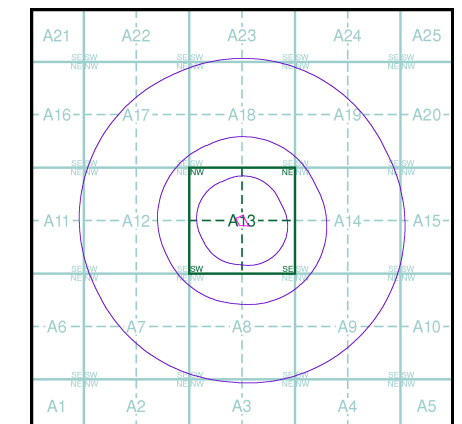
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A

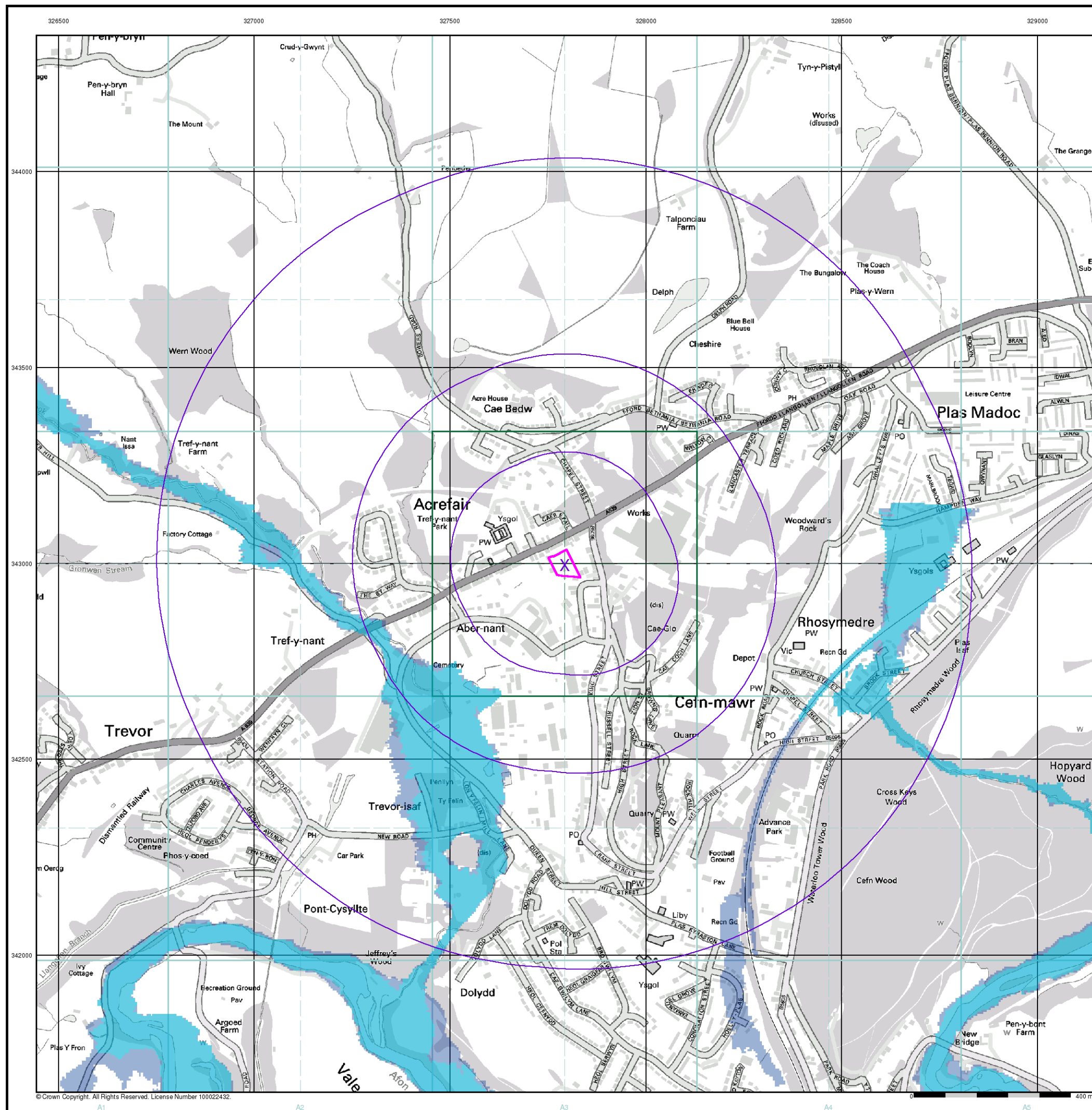


Order Details

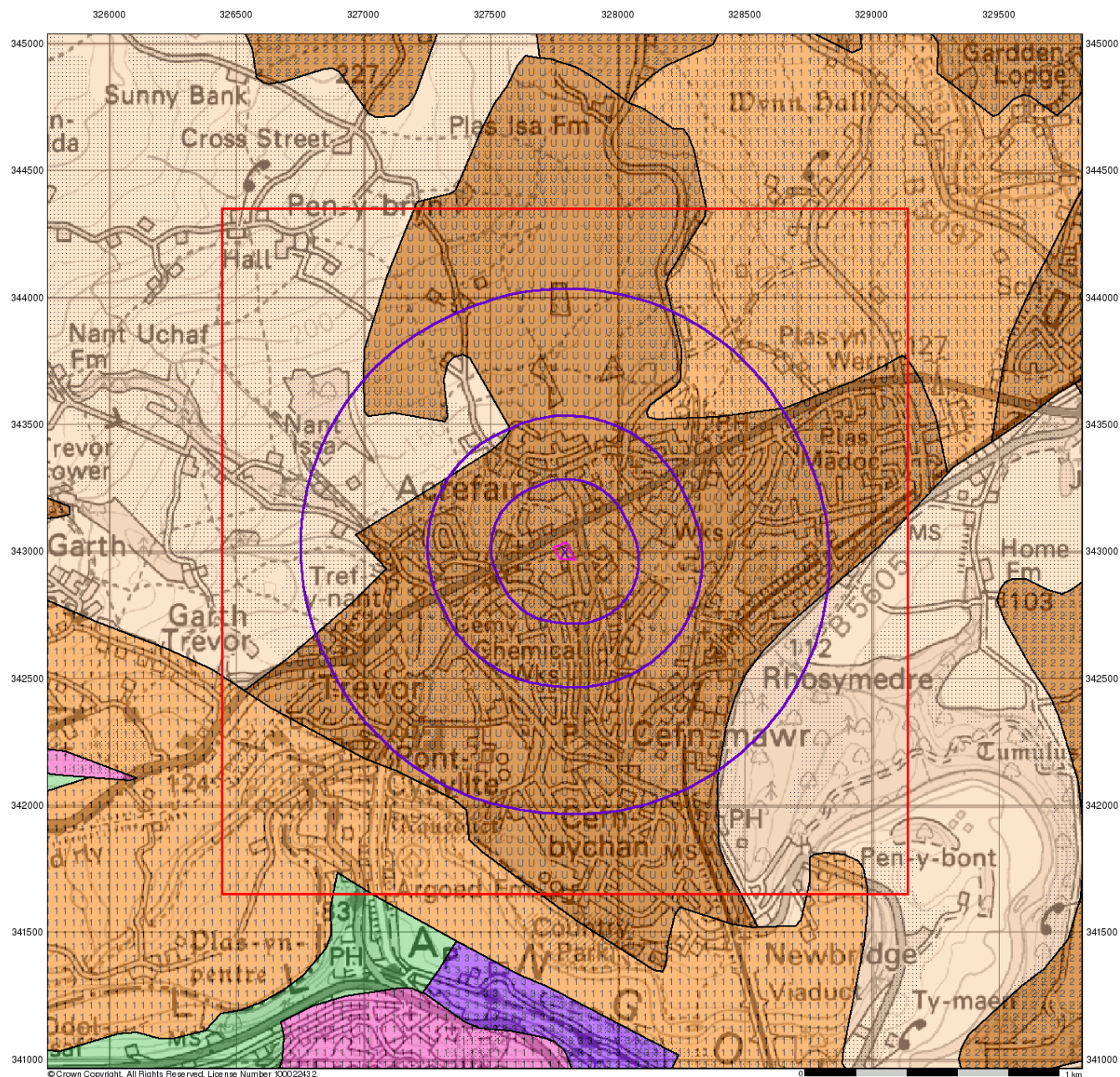
Order Number: 33719359_1_1
 Customer Ref: 15067
 National Grid Reference: 327790, 343000
 Slice: A
 Site Area (Ha): 0.33
 Search Buffer (m): 1000

Site Details

Llygad Haul, King Street, Acrefair, Wrexham, LL14 3RH



Ground Water Vulnerability Map
Source Protection Zones



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Groundwater Vulnerability

General

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

Agency and Hydrological

Geological Classes

Major Aquifer (Highly Permeable)

Minor Aquifer (Variably Permeable)

Non Aquifer (Negligibly Permeable)

Water or Sea

Drift Deposit

Soil Classes

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

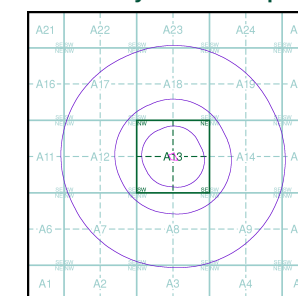
Low

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

Low

Site Sensitivity Context Map - Slice A



Order Details

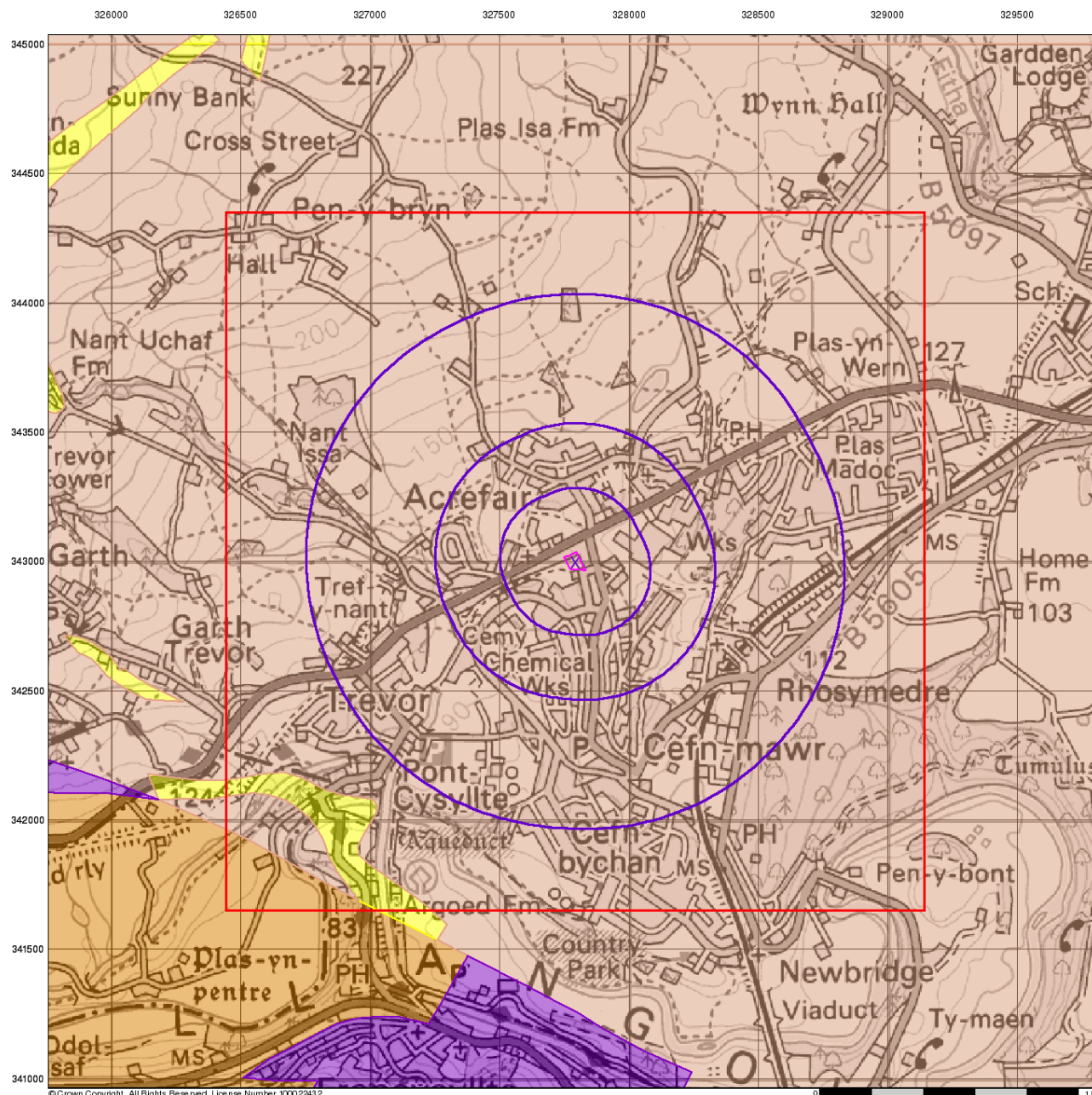
Order Number: 33719359_1_1
 Customer Ref: 15067
 National Grid Reference: 327790, 343000
 Slice: A
 Site Area (Ha): 0.33
 Search Buffer (m): 1000

Site Details

Llygad Haul, King Street, Acrefair, Wrexham, LL14 3RH



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



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Bedrock Aquifer Designation

General

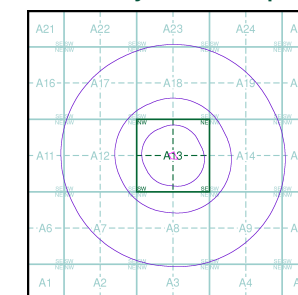
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



Order Details

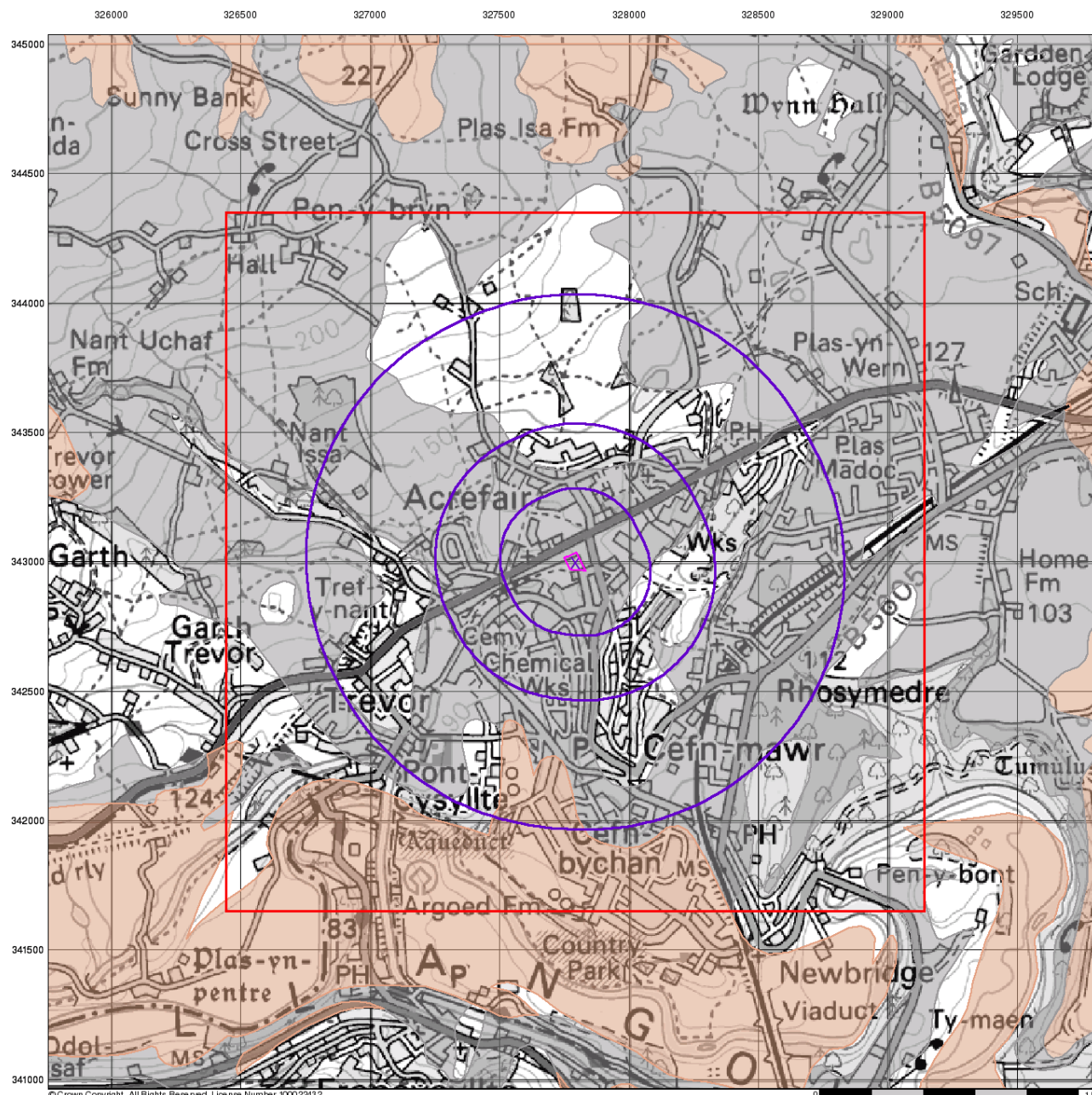
Order Number: 33719359_1_1
 Customer Ref: 15067
 National Grid Reference: 327790, 343000
 Slice: A
 Site Area (Ha): 0.33
 Search Buffer (m): 1000

Site Details

Llygad Haul, King Street, Acrefair, Wrexham, LL14 3RH



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Superficial Aquifer Designation

General

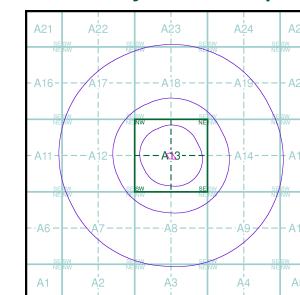
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



Order Details

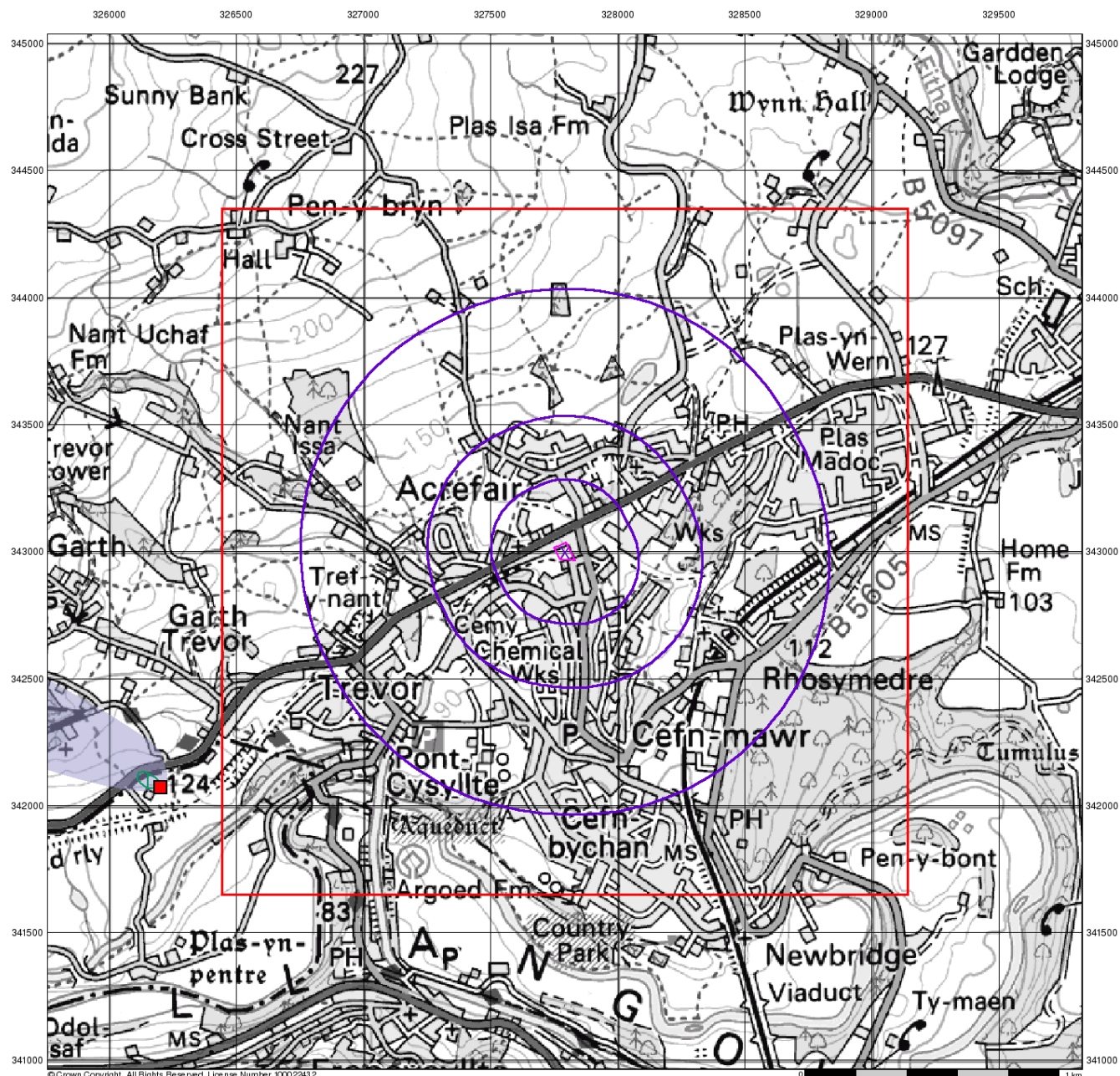
Order Number: 33719359_1_1
 Customer Ref: 15067
 National Grid Reference: 327790, 343000
 Slice: A
 Site Area (Ha): 0.33
 Search Buffer (m): 1000

Site Details

Llygad Haul, King Street, Acrefair, Wrexham, LL14 3RH



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 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



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Source Protection Zones

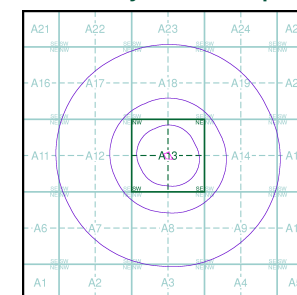
General

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

Agency and Hydrological

- Source Protection Zone I
- Source Protection Zone II
- Source Protection Zone III
- Zone of Special Interest
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 33719359_1_1
 Customer Ref: 15067
 National Grid Reference: 327790, 343000
 Slice: A
 Site Area (Ha): 0.33
 Search Buffer (m): 1000

Site Details

Llygad Haul, King Street, Acrefair, Wrexham, LL14 3RH



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

General

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

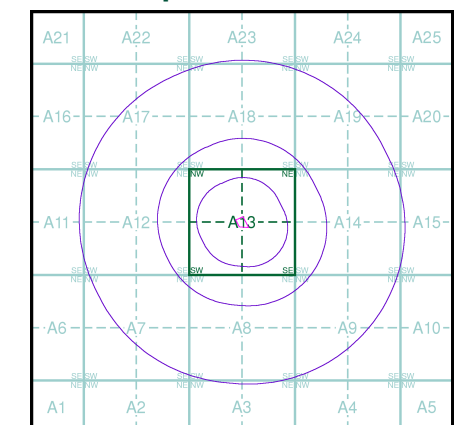
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A

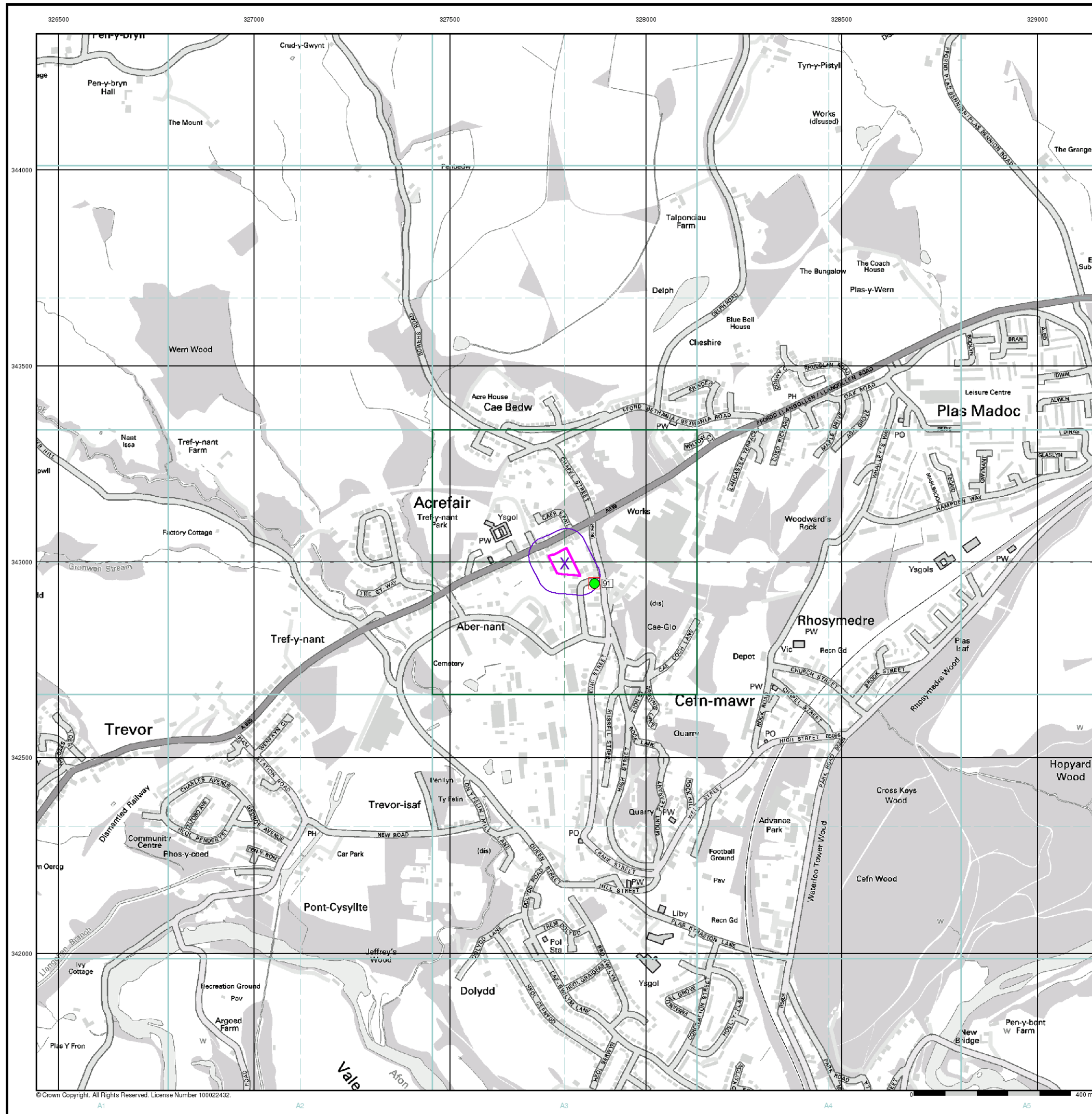


Order Details

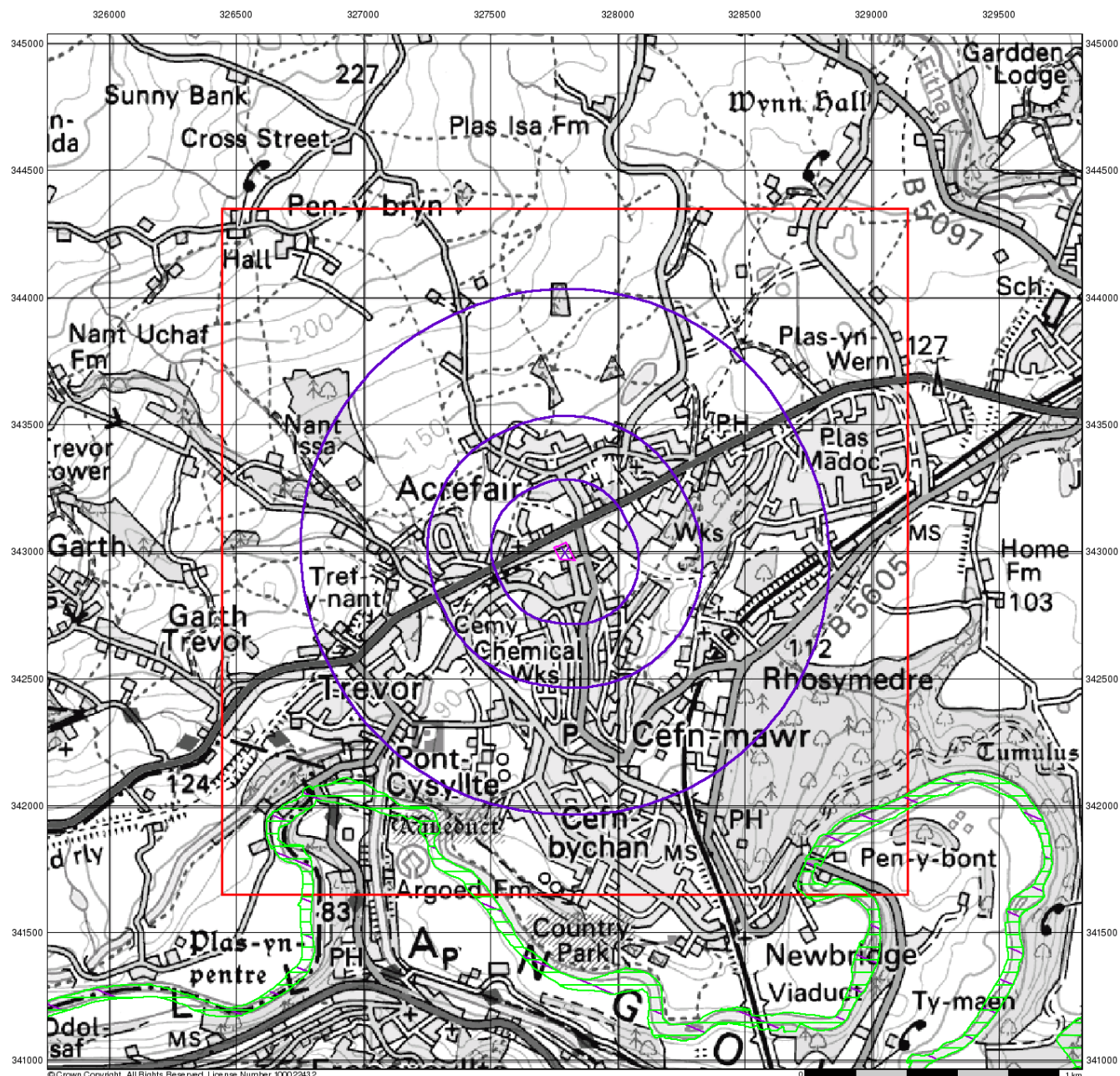
Order Number: 33719359_1_1
 Customer Ref: 15067
 National Grid Reference: 327790, 343000
 Slice: A
 Site Area (Ha): 0.33
 Search Buffer (m): 1000

Site Details

Llygad Haul, King Street, Acrefair, Wrexham, LL14 3RH



Sensitive Land Uses Map



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Sensitive Land Uses

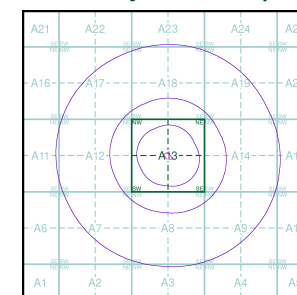
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 33719359_1_1
 Customer Ref: 15067
 National Grid Reference: 327790, 343000
 Slice: A
 Site Area (Ha): 0.33
 Search Buffer (m): 1000

Site Details

Llygad Haul, King Street, Acrefair, Wrexham, LL14 3RH

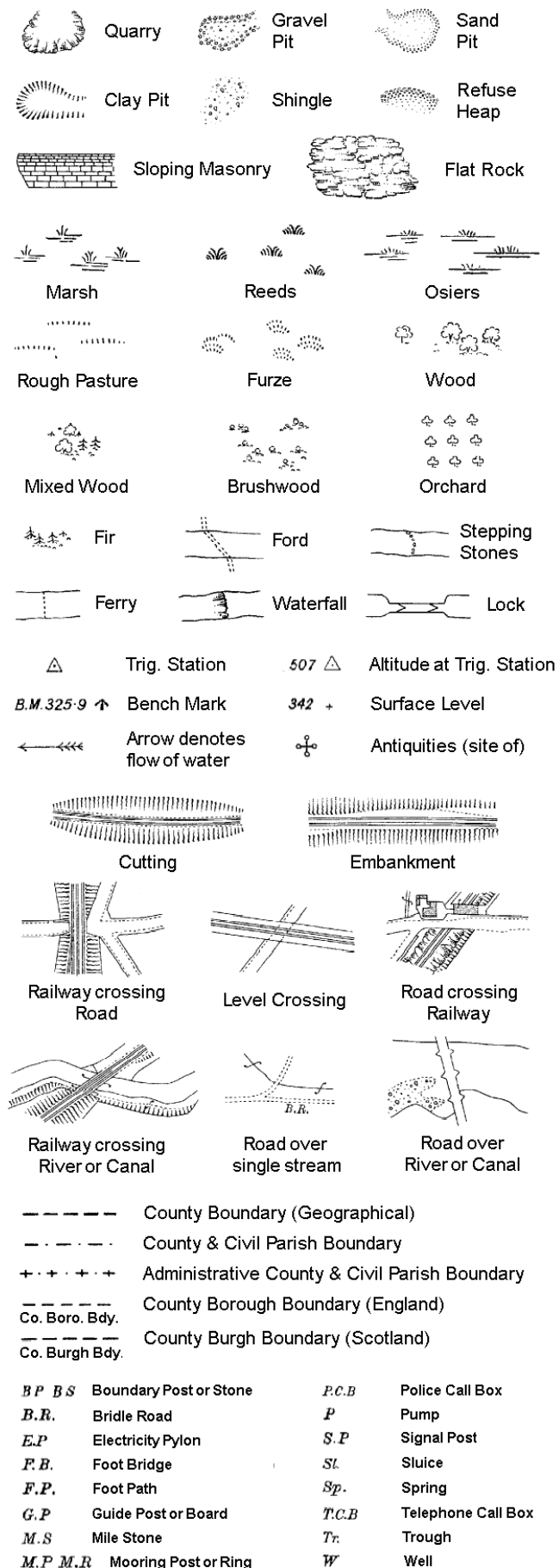


Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk

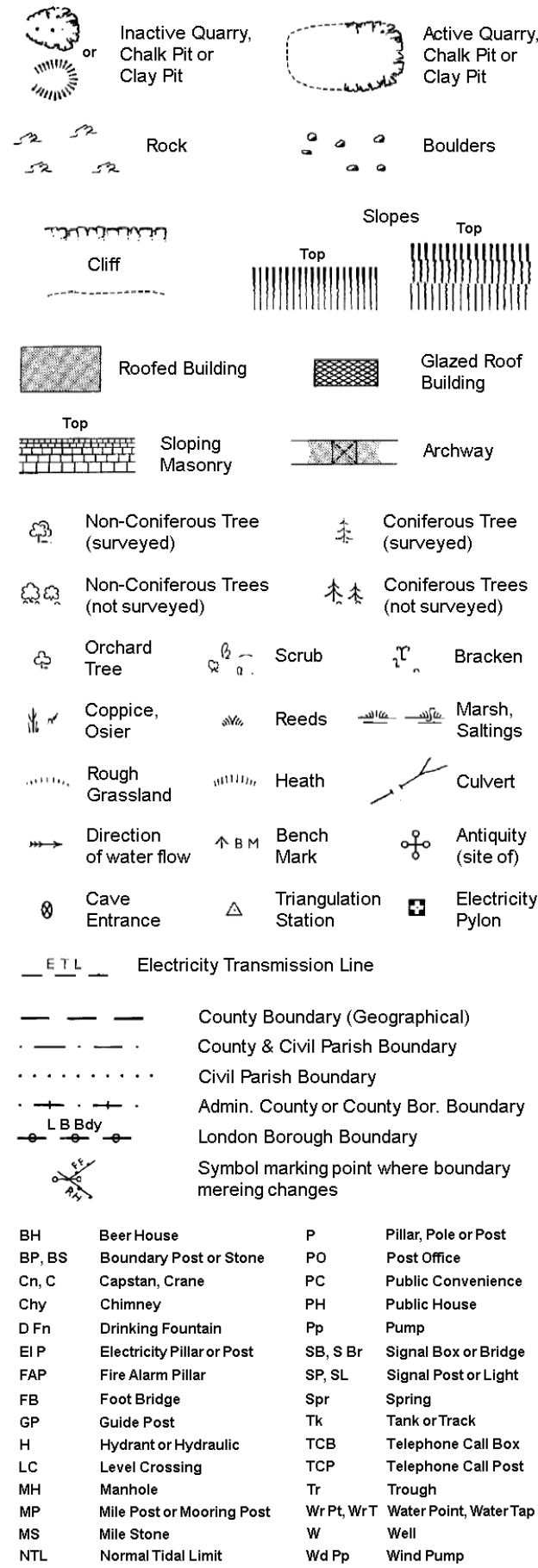
Historical Plans Map List

Historical Mapping Legends

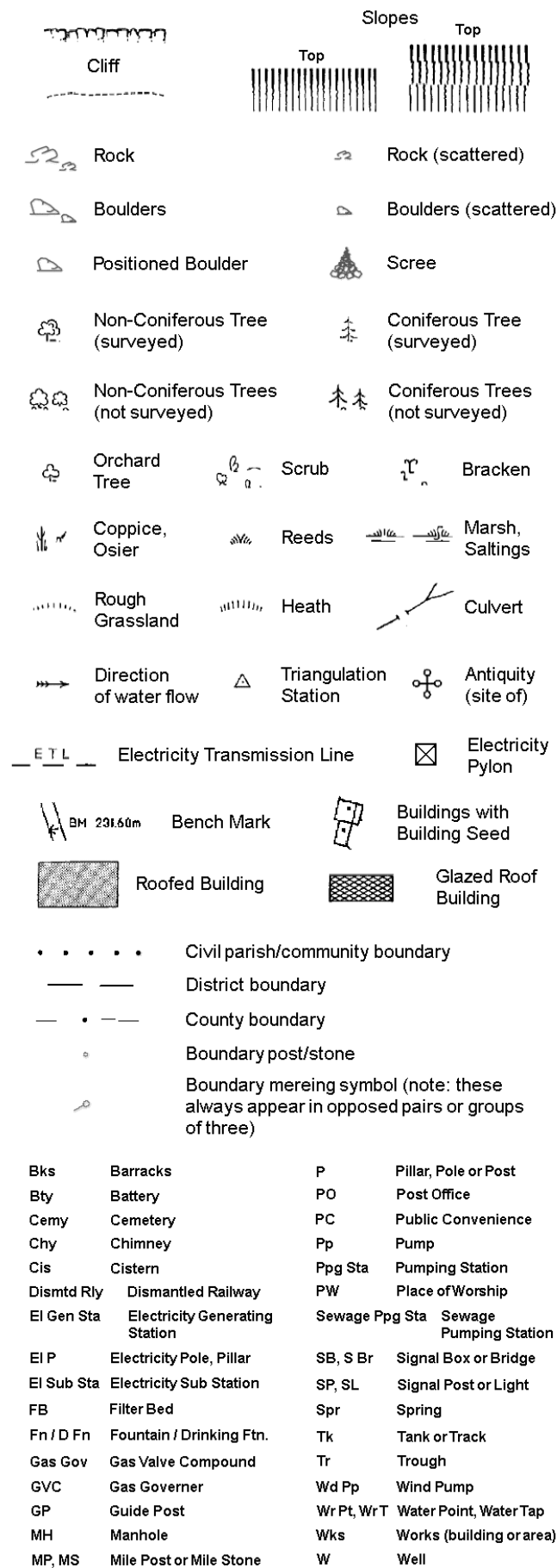
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



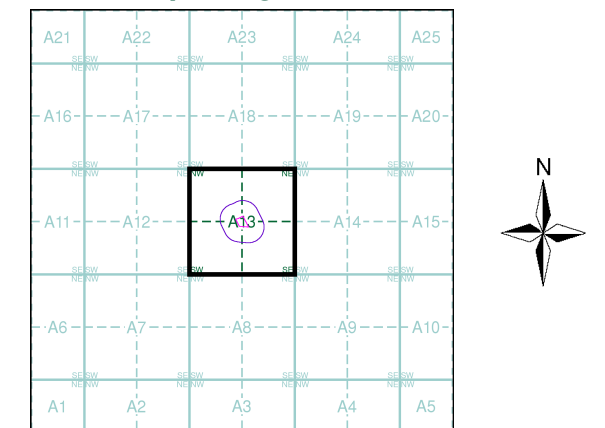
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Denbighshire	1:2,500	1873 - 1875	2
Denbighshire	1:2,500	1899	3
Denbighshire	1:2,500	1912	4
Ordnance Survey Plan	1:2,500	1962 - 1963	5
Additional SIMs	1:2,500	1962 - 1980	6
Ordnance Survey Plan	1:2,500	1968	7
Ordnance Survey Plan	1:2,500	1972	8
Supply of Unpublished Survey Information	1:2,500	1974	9
Additional SIMs	1:2,500	1978 - 1991	10
Additional SIMs	1:2,500	1988 - 1992	11
Ordnance Survey Plan	1:2,500	1991	12
Large-Scale National Grid Data	1:2,500	1994	13

Historical Map - Segment A13



Order Details

Order Number: 33719359_1_1
Customer Ref: 15067
National Grid Reference: 327790, 343000
Slice: A
Site Area (Ha): 0.33
Search Buffer (m): 100

Site Details

Llygad Haul, King Street, Acrefair, Wrexham, LL14 3RH

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 Borough 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		Ch
	CH		F E Sta
	FB		Fn
	GP		MP
	MS		Pol Sta
	PO		PC
	PH		SB
	Spr		TCB
	TCP		W
	Police Station		Post Office
	Public Convenience		Public House
	Signal Box		Spring
	Telephone Call Box		Telephone Call Post
	Well		

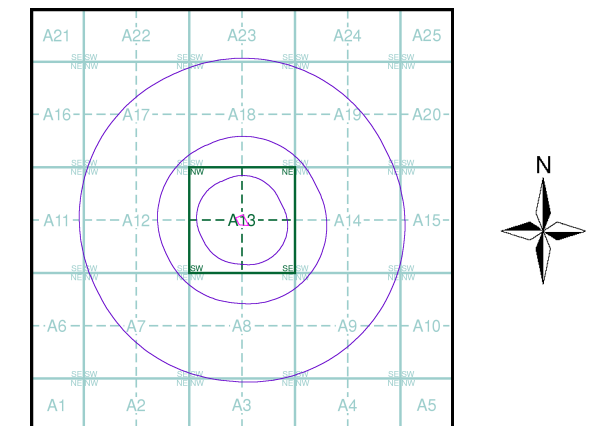
1:10,000 Raster Mapping

	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

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Denbighshire	1:10,560	1879	2
Denbighshire	1:10,560	1900	3
Denbighshire	1:10,560	1914	4
Denbighshire	1:10,560	1938	5
Denbighshire	1:10,560	1954	6
Ordnance Survey Plan	1:10,000	1963	7
Ordnance Survey Plan	1:10,000	1977	8
Ordnance Survey Plan	1:10,000	1986	9
Ordnance Survey Plan	1:10,000	1995	10
10K Raster Mapping	1:10,000	2000	11
10K Raster Mapping	1:10,000	2006	12
10K Raster Mapping	1:10,000	2010	13

Historical Map - Slice A



Order Details

Order Number: 33719359_1_1
 Customer Ref: 15067
 National Grid Reference: 327790, 343000
 Slice: A
 Site Area (Ha): 0.33
 Search Buffer (m): 1000

Site Details

Llygad Haul, King Street, Acrefair, Wrexham, LL14 3RH

1: 2500 Historical Plans

Denbighshire

Published 1873 - 1875

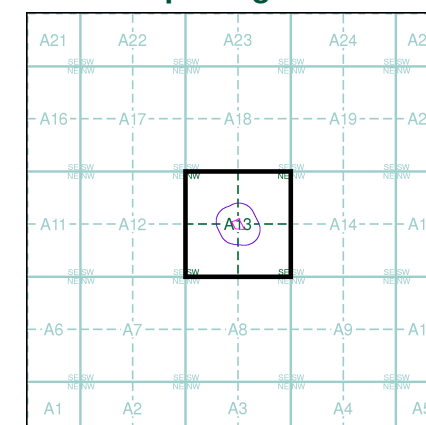
Source map scale - 1:2,500

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)

035_09 1874 1:2,500	035_10 1874 1:2,500
035_13 1875 1:2,500	035_14 1873 1:2,500

Historical Map - Segment A13

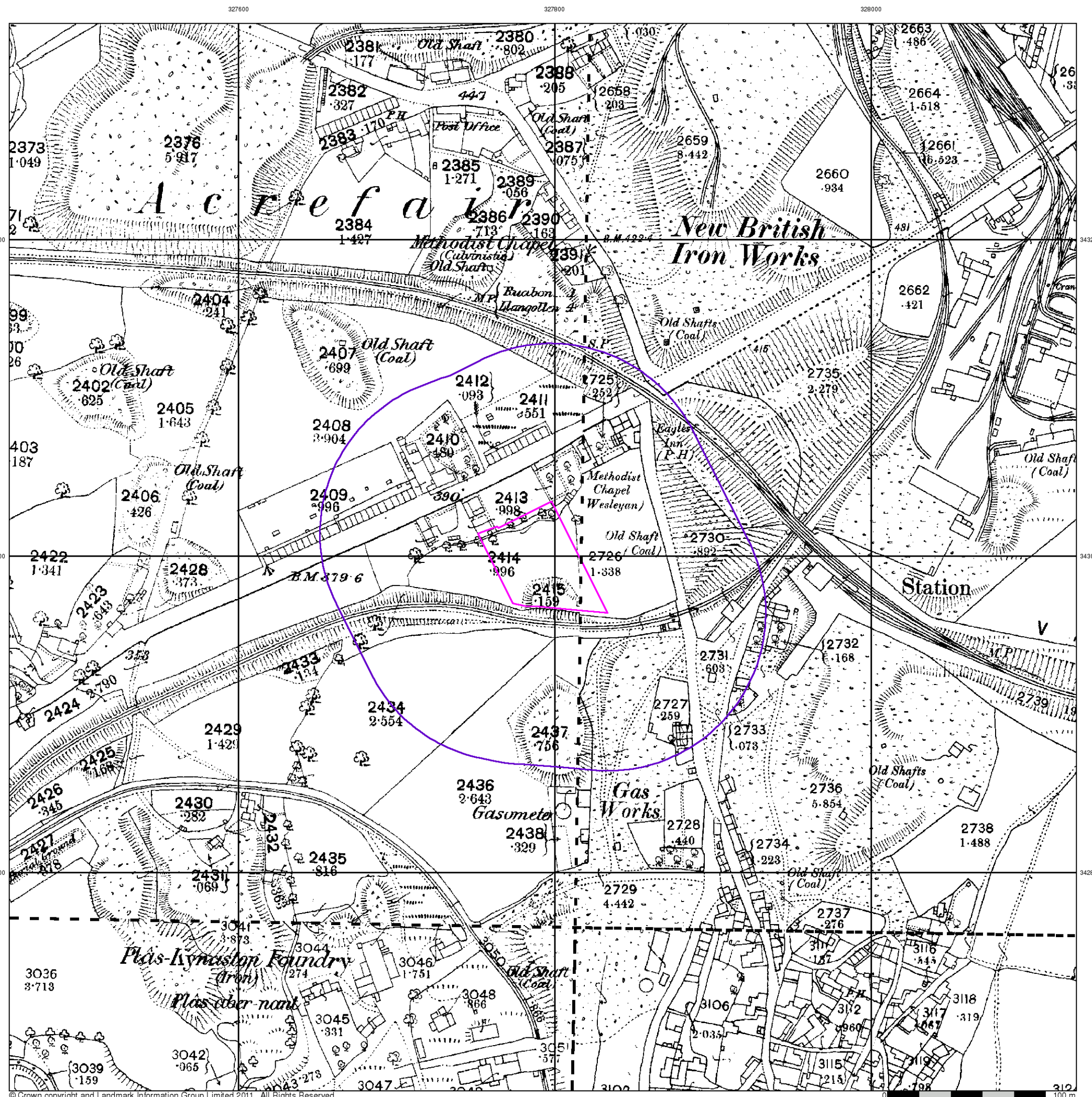


Order Details

Order Number: 33719359_1_1
 Customer Ref: 15067
 National Grid Reference: 327790, 343000
 Slice: A
 Site Area (Ha): 0.33
 Search Buffer (m): 100

Site Details

Llygad Haul, King Street, Acrefair, Wrexham, LL14 3RH



Denbighshire

Published 1899

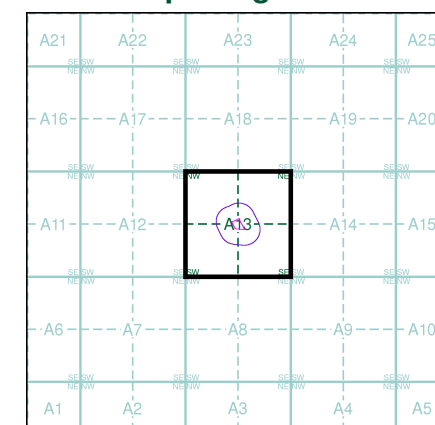
Source map scale - 1:2,500

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)

035_09 1899 1:2,500	035_10 1899 1:2,500
035_13 1899 1:2,500	035_14 1899 1:2,500

Historical Map - Segment A13

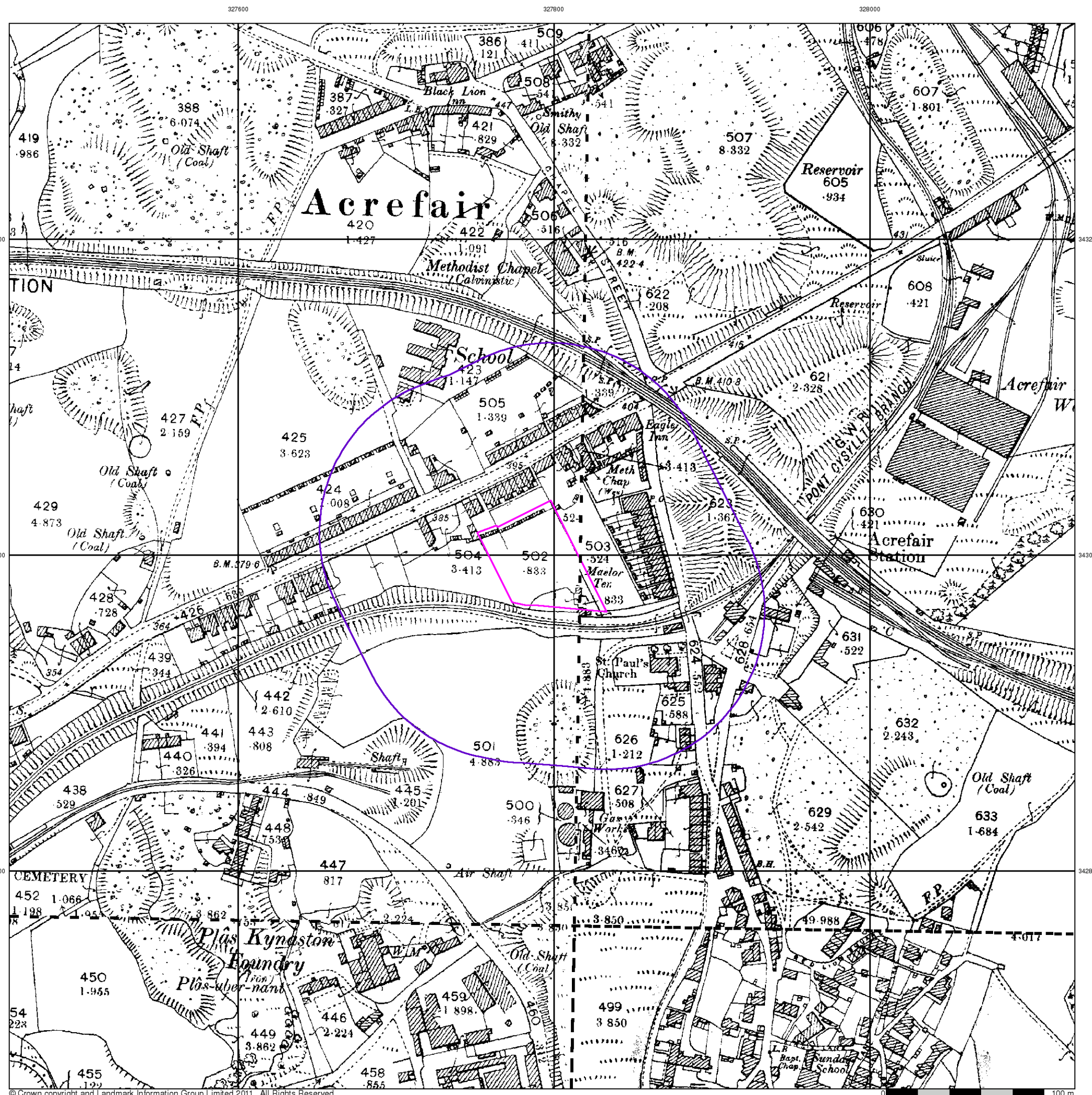


Order Details

Order Number: 33719359_1_1
 Customer Ref: 15067
 National Grid Reference: 327790, 343000
 Slice: A
 Site Area (Ha): 0.33
 Search Buffer (m): 100

Site Details

Llygad Haul, King Street, Acrefair, Wrexham, LL14 3RH



Denbighshire

Published 1912

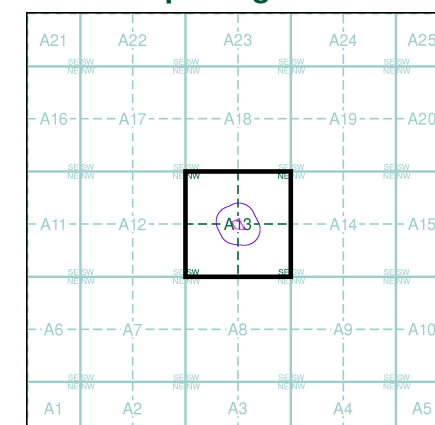
Source map scale - 1:2,500

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)

035_09 1912 1:2,500	035_10 1912 1:2,500
035_13 1912 1:2,500	035_14 1912 1:2,500

Historical Map - Segment A13

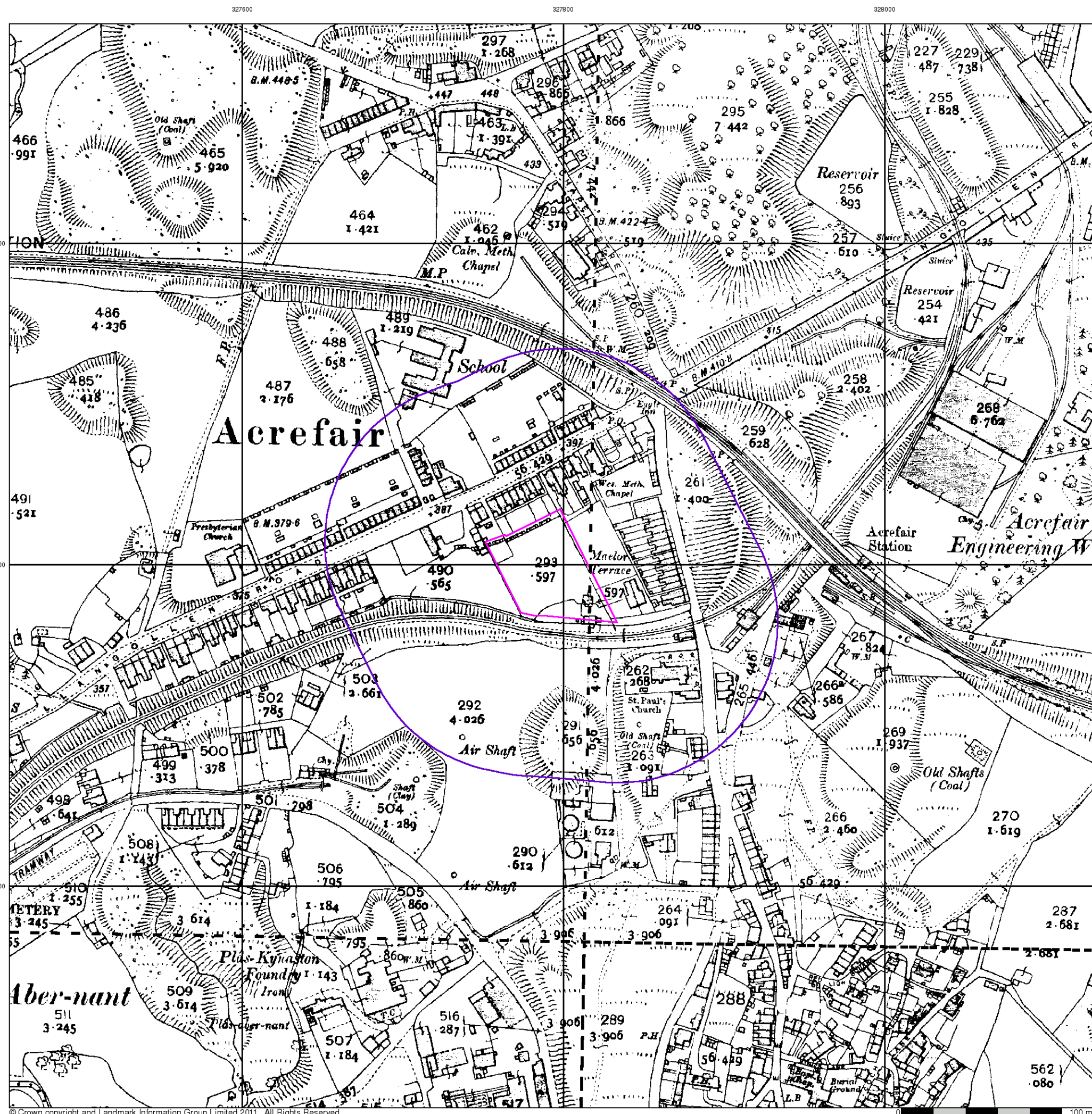


Order Details

Order Number: 33719359_1_1
 Customer Ref: 15067
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 Slice: A
 Site Area (Ha): 0.33
 Search Buffer (m): 100

Site Details

Llygad Haul, King Street, Acrefair, Wrexham, LL14 3RH



Ordnance Survey Plan

Published 1962 - 1963

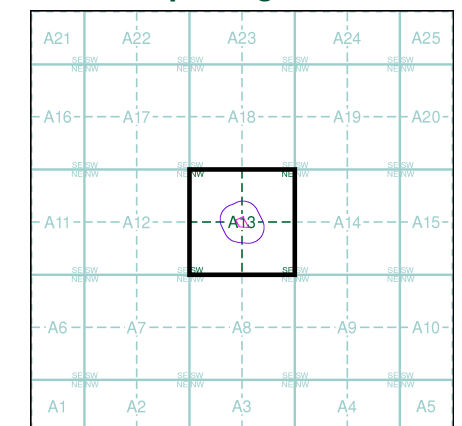
Source map scale - 1:2,500

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)

SJ2743 1962 1:2,500	SJ2843 1962 1:2,500
SJ2742 1963 1:2,500	SJ2842 1962 1:2,500

Historical Map - Segment A13



Order Details

Order Number: 33719359_1_1
 Customer Ref: 15067
 National Grid Reference: 327790, 343000
 Slice: A
 Site Area (Ha): 0.33
 Search Buffer (m): 100

Site Details

Llygad Haul, King Street, Acrefair, Wrexham, LL14 3RH



Additional SIMs

Published 1962 - 1980

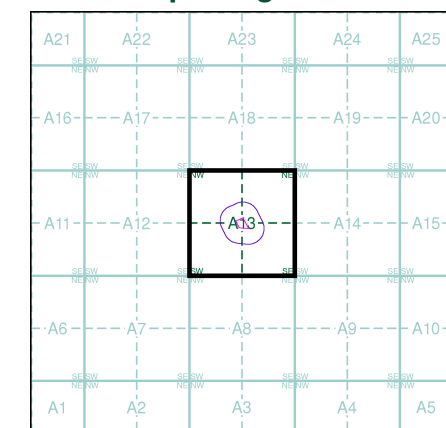
Source map scale - 1:2,500

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)

SJ2743	SJ2843
1962	1980
12,500	12,500
SJ2742	SJ2842
1963	1962
12,500	12,500

Historical Map - Segment A13

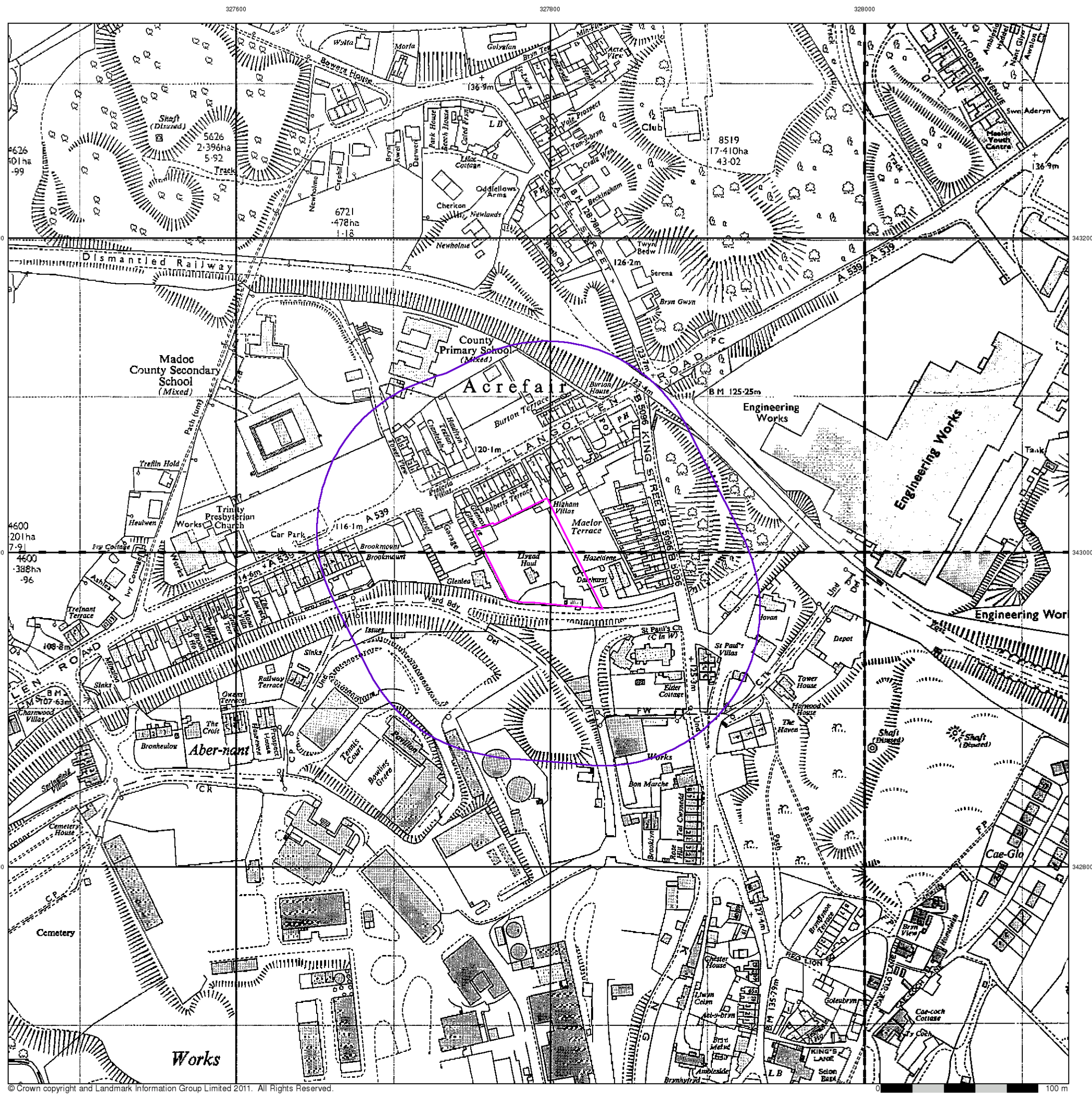


Order Details

Order Number: 33719359_1_1
 Customer Ref: 15067
 National Grid Reference: 327790, 343000
 Slice: A
 Site Area (Ha): 0.33
 Search Buffer (m): 100

Site Details

Llygad Haul, King Street, Acrefair, Wrexham, LL14 3RH



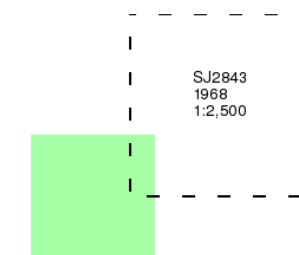
Ordnance Survey Plan

Published 1968

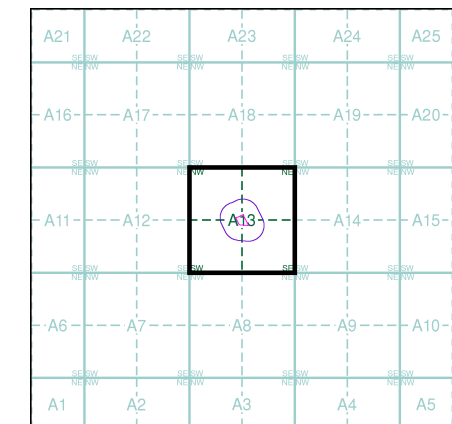
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

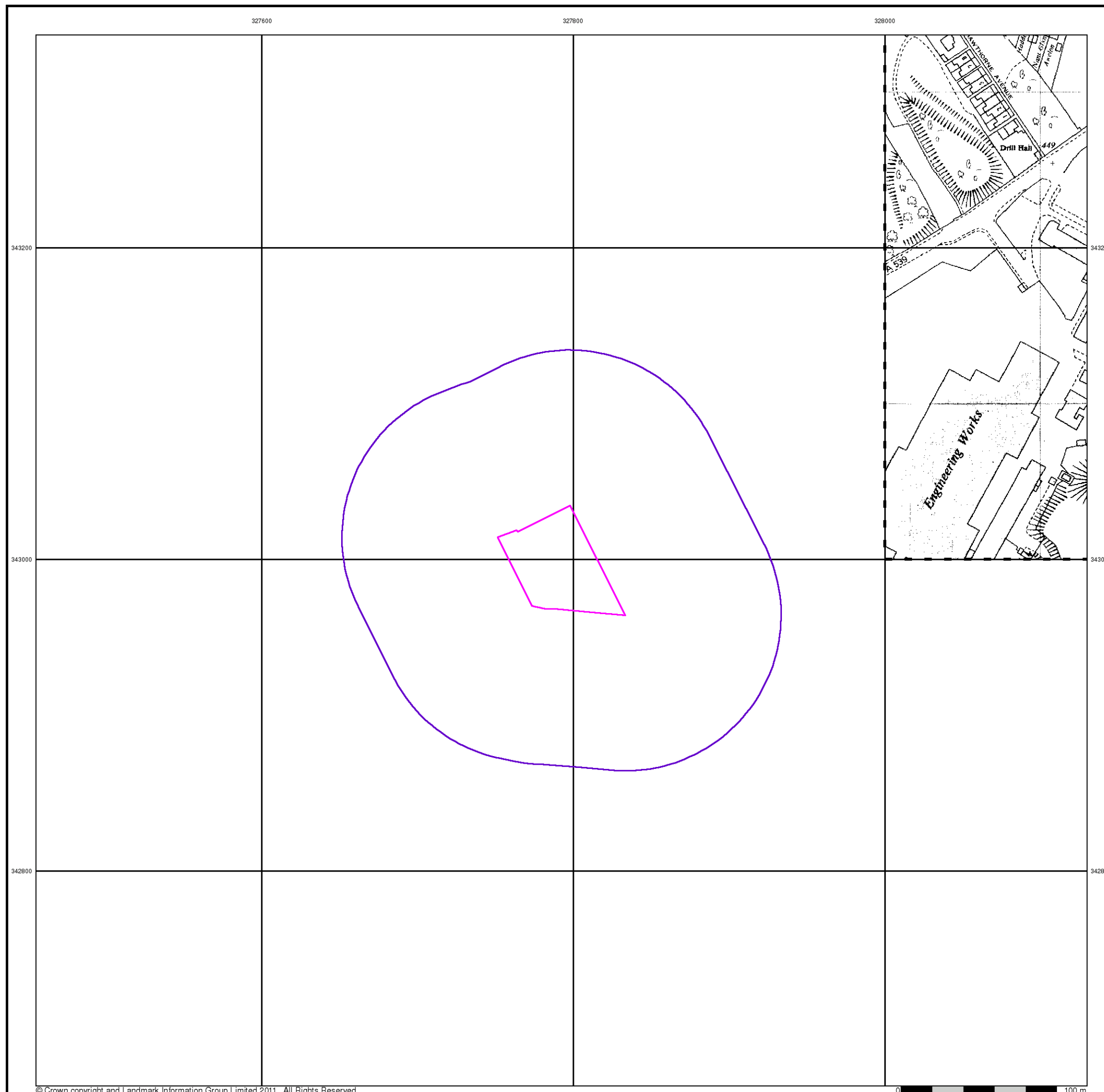


Order Details

Order Number: 33719359_1_1
Customer Ref: 15067
National Grid Reference: 327790, 343000
Slice: A
Site Area (Ha): 0.33
Search Buffer (m): 100

Site Details

Llygad Haul, King Street, Acrefair, Wrexham, LL14 3RH



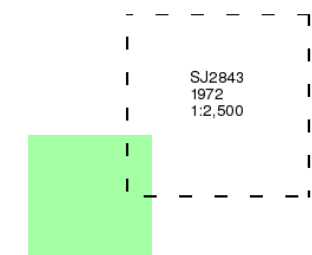
Ordnance Survey Plan

Published 1972

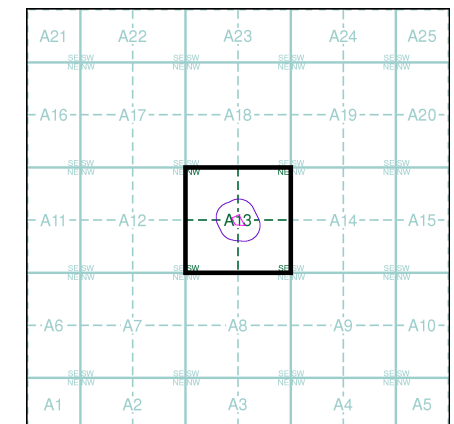
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

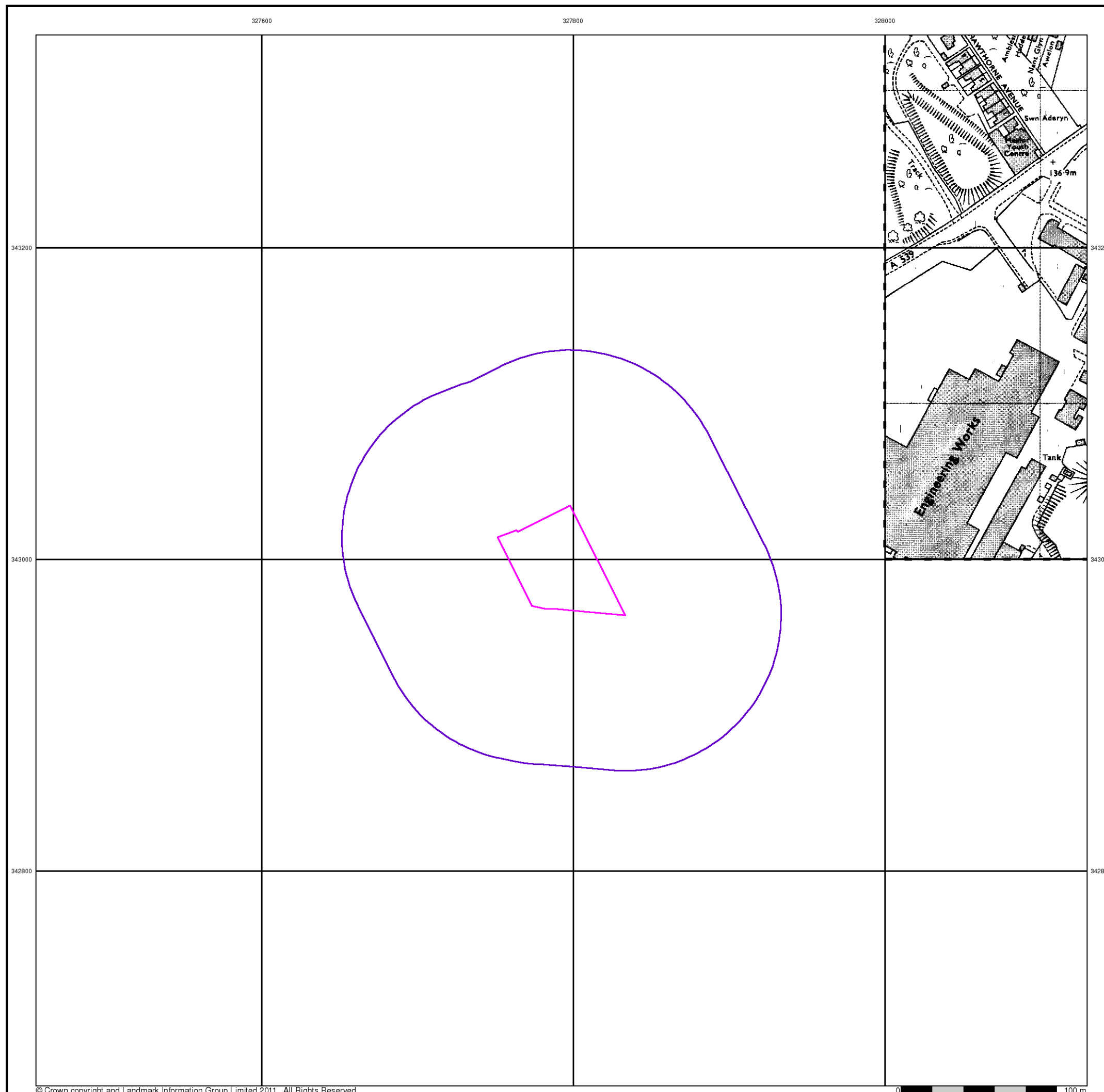


Order Details

Order Number: 33719359_1_1
Customer Ref: 15067
National Grid Reference: 327790, 343000
Slice: A
Site Area (Ha): 0.33
Search Buffer (m): 100

Site Details

Llygad Haul, King Street, Acrefair, Wrexham, LL14 3RH



Supply of Unpublished Survey Information

Published 1974

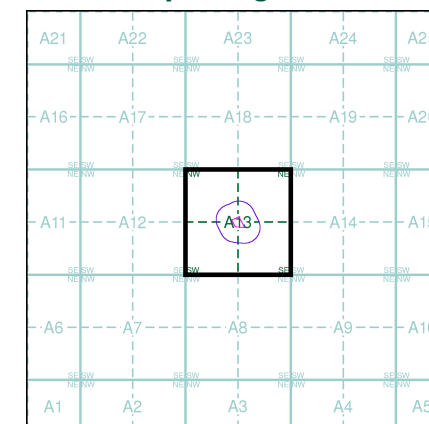
Source map scale - 1:2,500

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SJ2743	SJ2843
1974	1974
1:2,500	1:2,500
SJ2742	SJ2842
1974	1974
1:2,500	1:2,500

Historical Map - Segment A13



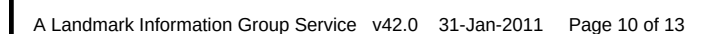
Order Details

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 Customer Ref: 15067
 National Grid Reference: 327790, 343000
 Slice: A
 Site Area (Ha): 0.33
 Search Buffer (m): 100

Site Details

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Additional SIMs

Published 1988 - 1992

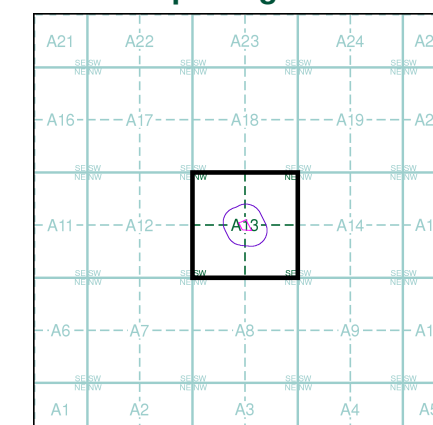
Source map scale - 1:2,500

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)

SJ2743	1992	12,500
SJ2742	1992	12,500
SJ2842	1988	12,500

Historical Map - Segment A13

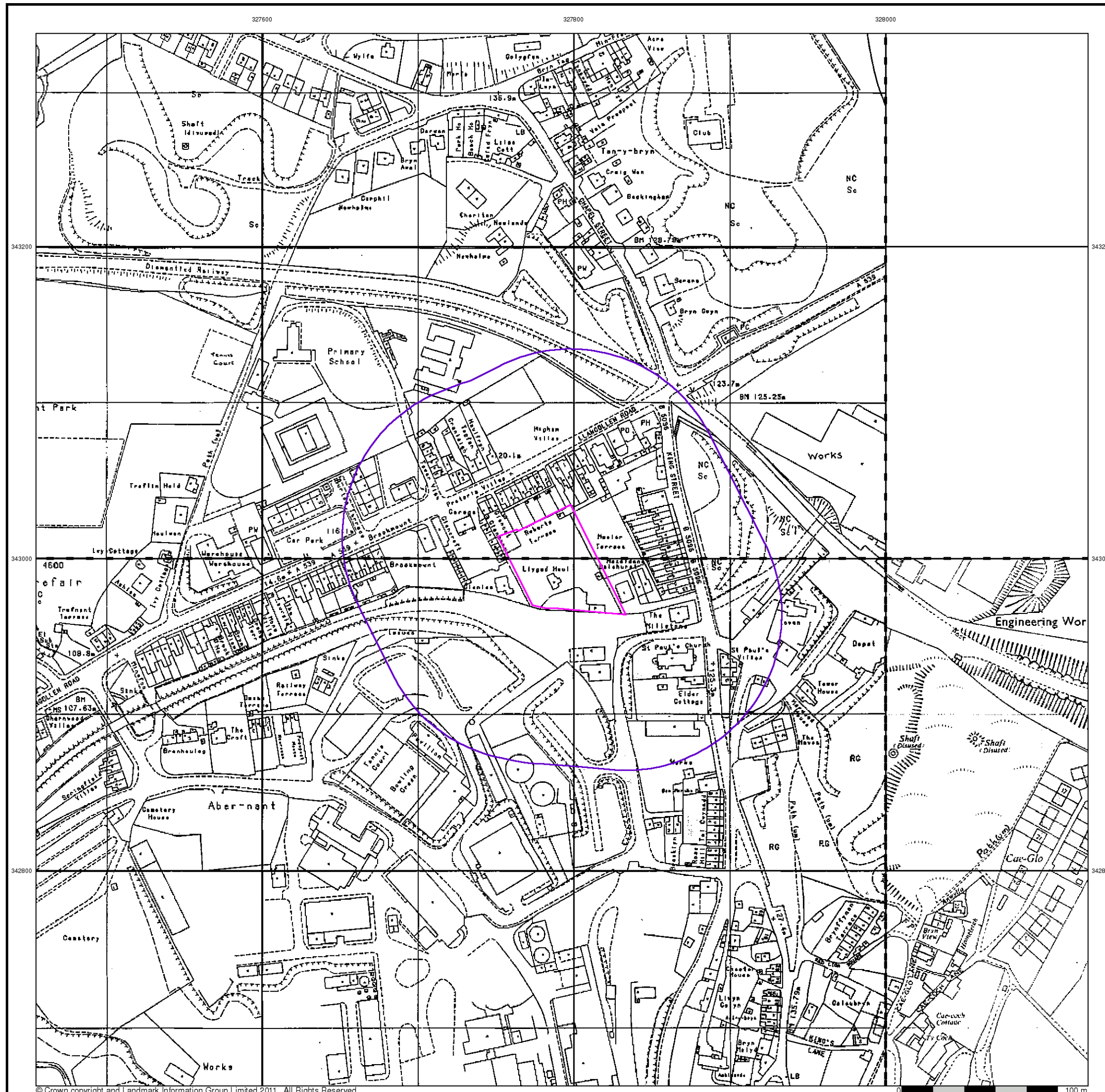


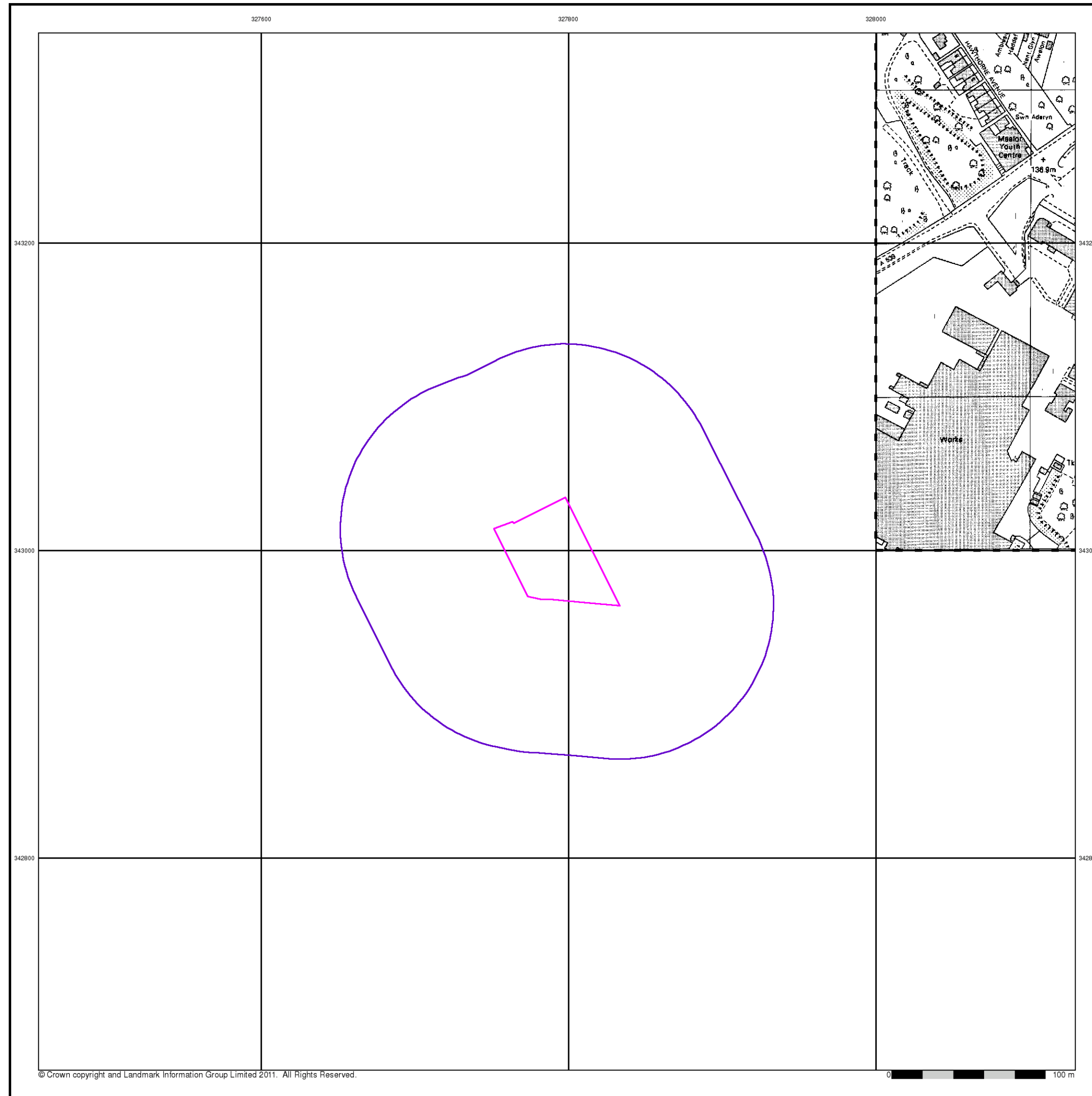
Order Details

Order Number: 33719359_1_1
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Site Details

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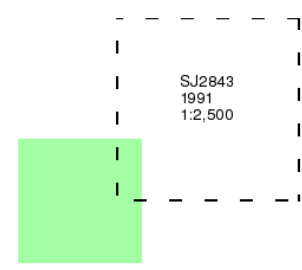
Ordinance Survey Plan

Published 1991

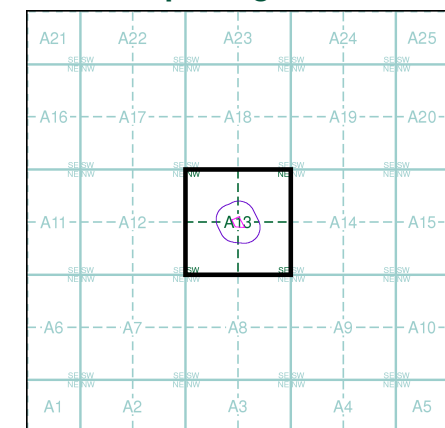
Source map scale - 1:2,500

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Map Name(s) and Date(s)

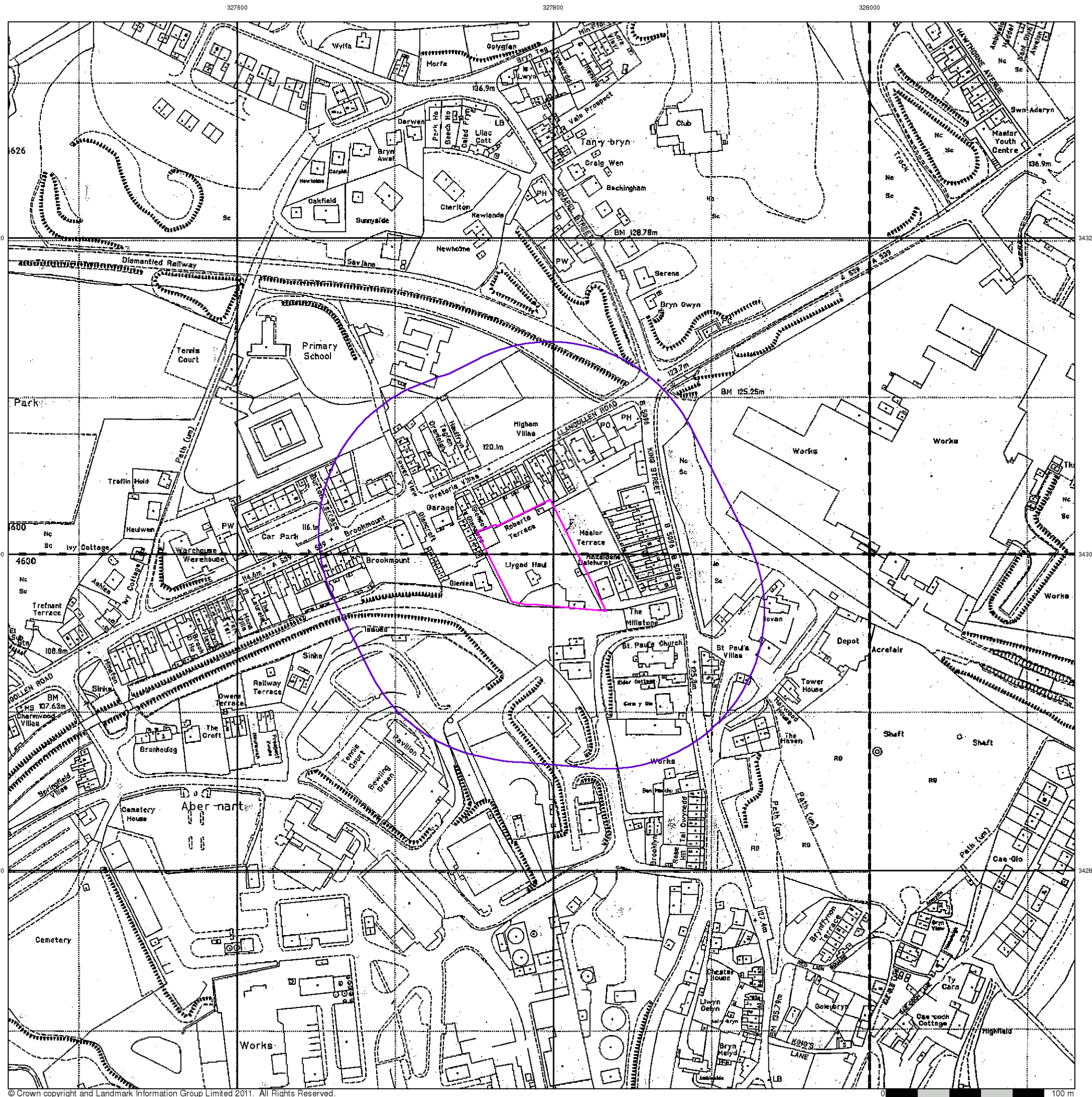


Historical Map - Segment A13



Order Details
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Site Details
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Large-Scale National Grid Data

Published 1994

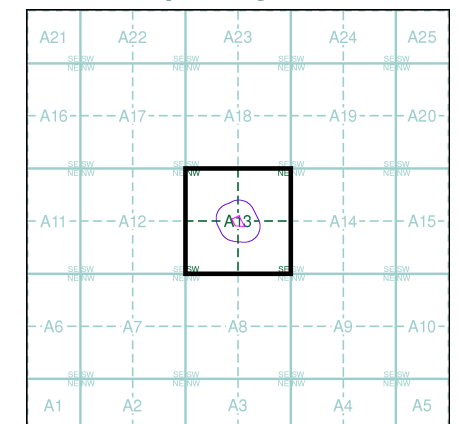
Source map scale - 1:2,500

'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)

SJ2743	SJ2843
1994	1994
12,500	12,500
SJ2742	SJ2842
1994	1994
12,500	12,500

Historical Map - Segment A13



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1:10000 Historical Plans