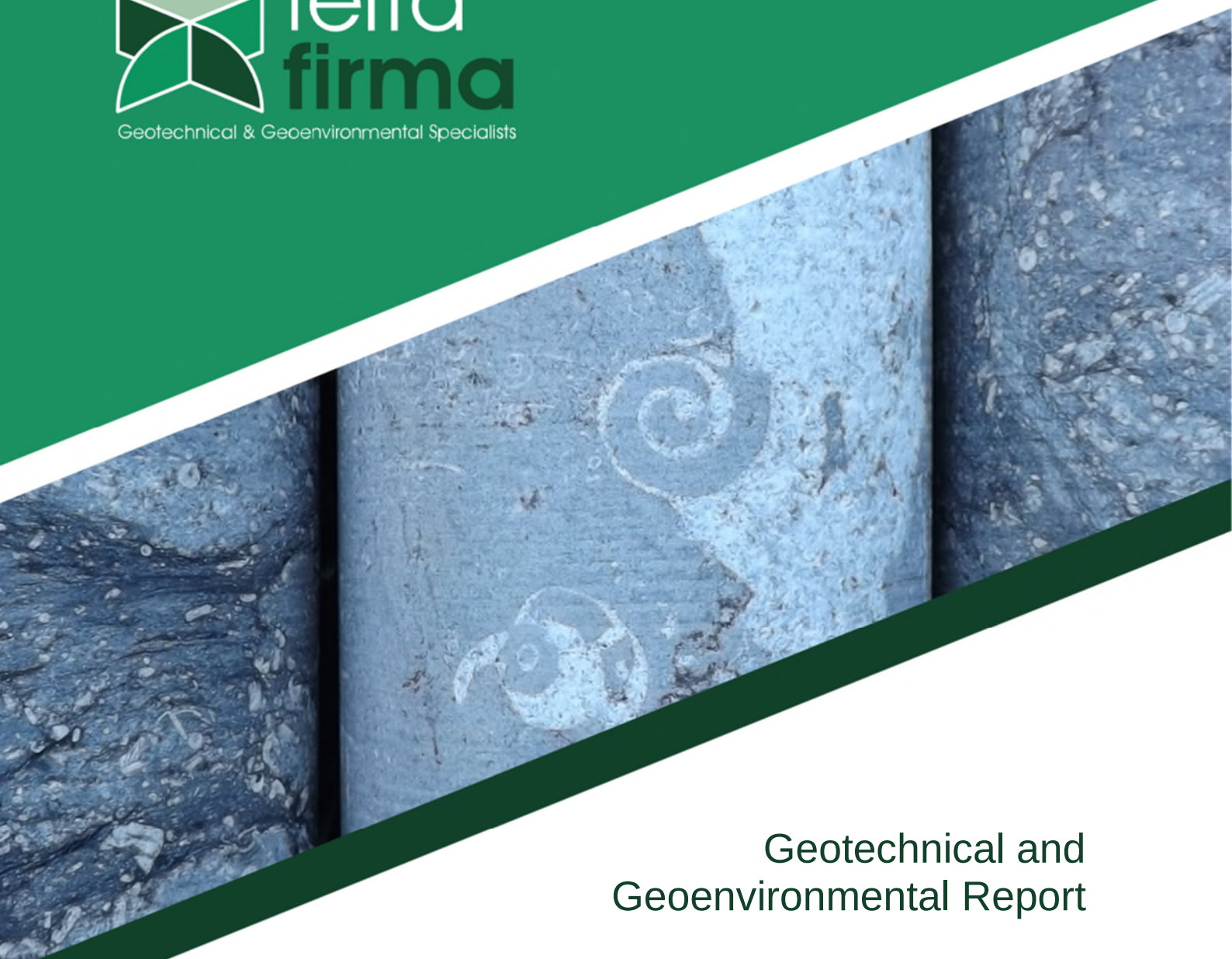




Geotechnical and Geoenvironmental Report

Prepared For: Merthyr Valleys Homes Limited

Issue Date: December 2020

Job No: 16396

REPORT TITLE : **Geotechnical and Geoenvironmental Report:
Proposed Development, Honeysuckle Close
and Clos Gwyddfid, Gurnos, Merthyr Tydfil**

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Executive Summary

Site Location and Proposed Development	<i>The site comprises two residential development areas located on Honeysuckle Close and Clos Gwyddfid, Gurnos, Merthyr Tydfil.</i> <i>The Honeysuckle Close site is the larger of the two plots, comprising a grassed recreation area centred on a grid reference of 304200 208990 and covering an area of 0.25 hectares. The plot inclines gently towards the northwest.</i> <i>The Clos Gwyddfid site covers an area of 0.03 hectares and situates on a grid reference of 304185 208065. It also comprises open grassed land that declines towards the southwest.</i>
Site History	<i>Both sites remained as field land or woodland until the development of housing between 1965 and 1973. The housing was demolished between 1995 and 2001 and the sites have since remained grassed communal land.</i>
Radon	<i>Basic radon protection measures are required.</i>
Coal Mining Risk Assessment	<i>There are no risks to the development from past shallow coal mining.</i>
Geology and Ground Conditions	<i>Geologically the site is underlain by rocks of the Bishopston Mudstone Formation. No superficial soil cover is recorded.</i> <i>The site investigation identified variable made ground over dense brown/orange brown sand and gravel deposits representing highly weathered bedrock.</i> <i>Buried foundations were recorded.</i>
Contamination of Concern	<i>Several PAH species were identified as contaminants of concern in the made ground on both sites.</i>
Recommended Remediation	<i>It is recommended that all proposed garden and soft landscaped areas be capped with 600mm of imported clean soils.</i> <i>Alternatively made ground can be removed.</i>
Gas Risk Assessment	<i>There are no risks from ground gas or landfill gas.</i>
Foundation Solution	<i>It is recommended that for both sites mass/reinforced concrete strip or trench fill foundations be used; founded within the underlying granular soils and/or weathered bedrock at an approximate depth of 0.4m – 1.5m below the existing ground level at Honeysuckle Close and between 0.7m – 1.9m below the existing ground level at Clos Gwyddfid. An allowable bearing pressure of 100kN/m² may be used for strips up to 600mm wide.</i> <i>Should foundations span across the granular deposits and shallow bedrock they should be designed as reinforced to prevent any differential settlement.</i> <i>Floor slabs should be designed as suspended.</i>

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SECTION 1 Introduction and Proposed Development

1.1 Introduction

Merthyr Valleys Homes Limited (the Client) is proposing the residential development of land off Honeysuckle Close and Clos Gwyddfif, Gurnos, Merthyr Tydfil.

Terra Firma (Wales) Limited have been commissioned by Vale Consultancy on behalf of the Client to undertake a geoenvironmental assessment and geotechnical investigation of the site.

The main objectives of the geoenvironmental assessment programme are:

- Investigate the potential human health and environmental liabilities at the site associated with any contamination
- Provide a summary of the human health and environmental conditions at the site, together with any necessary further intrusive works and / or remediation works to render the site fit for its intended use

The main objectives of the geotechnical site investigation are:

- Investigated the type, strength and bearing characteristics of the shallow superficial and underlying solid geology
- Investigate the risk, if any, from historical shallow underground mining features
- Provide engineering foundation and floor slab recommendations for the proposed development
- Provide infiltration rates and stormwater drainage viability.
- Provide recommendations regarding any other geotechnical aspects pertaining to the development

In order to achieve the above objectives, Terra Firma (Wales) Limited carried out an assessment programme including a site walkover*, a review of existing data, followed by a field investigation to collect geotechnical and geoenvironmental data from selected locations.

1.2 Limitations and Exceptions of Investigation

The Client has requested that a Geoenvironmental Site Assessment (GSA) and Geotechnical Investigation (GI) be performed to enable the outlined main objectives.

The GSA and GI were conducted, and this report has been prepared for the sole internal reliance of the Client and their design and construction team. This report shall not be relied upon or transferred to any other parties without the express written authorisation of Terra Firma (Wales) Limited. 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 represents the findings and opinions of experienced geoenvironmental and geotechnical consultants. Terra Firma (Wales) Limited does not provide legal advice and the advice of lawyers may be required.

The subsurface geological profiles, any contamination and other plots are generalised by necessity and have been based on the information found at the locations of the exploratory holes and depths sampled and tested.

The investigation at Clos Gwyddfif was limited by the presence of a buried concrete slab.

1.3 Quality Assurance

The quality and environmental aspects of the assessment and investigation comply with UKAS Accredited ISO 9001:2015 and ISO 14001:2015 standards.

SECTION 2 Review of Existing Data

2.1 Physical Setting and Current Site Use

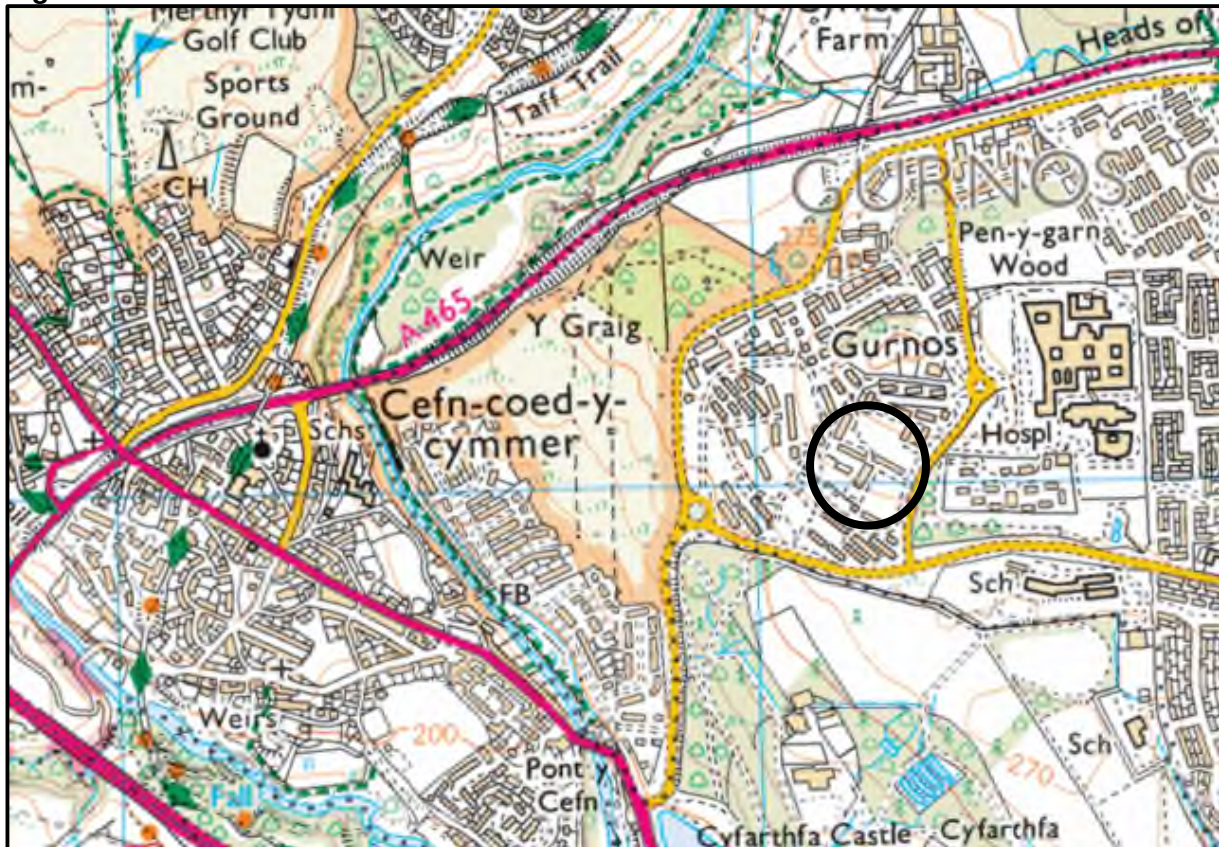
The site comprises two development areas located on Honeysuckle Close and Clos Gwyddfid, Gurnos, Merthyr Tydfil.

The Honeysuckle Close site is the larger of the two plots, comprising a grassed recreation area bound by Honeysuckle Close to the north and west and by Bramble Close to the east. It is centred on a grid reference of 304200 208990 and covers an area of approximately 0.25 hectares. The plot inclines gently towards the northwest.

The Clos Gwyddfid site covers an area of 0.03 hectares and situates on a grid reference of 304185 208065. It also comprises open grassed land that declines towards the southwest. Clos Gwyddfid defines the southern edge of the site and concrete car parking areas situate adjacent to the east and west of the site.

The site locations can be seen on **Figure 2.1** along with the proposed site layout on **Drawing 01** and **Drawing 02**.

Figure 2.1 Site Locations



2.2 Site History

Historical maps have been obtained in an Envirocheck Report, provided by Landmark Information Group. The history plans are supplied in **Annex A** of this report, and the most relevant editions are summarised in **Table 2.1**. Distances are approximate, and any changes in-between map editions may not be recorded

Table 2.1 Historical Development from Map Information

Map Edition & Scale	Key Features on Sites	Key Features off Sites
1875 (1:2500)	Honeysuckle Close – Located across field land and woodland. Clos Gwyddfid – Located across field land.	Bryn-cae-Owen Pond 260m southwest of Honeysuckle Close.
1919 (1:2500)	The sites remain unchanged.	No notable changes to the surrounding area.
1965 (1:10,560)	The sites remain unchanged.	No notable changes to the surrounding area.
1973 (1:1250)	Establishment of Gurnos has occurred in the form of a housing estate that includes Honeysuckle Close and Clos Gwyddfid. Honeysuckle Close – A row of houses situates in the northern end of the plot, aligned northwest-southeast. A second parallel row of houses sits inside the southern site boundary. Clos Gwyddfid comprises an area of hardstanding to the south with landscaping or structures likely to be steps to the north, providing access to adjacent housing.	Bryn-cae-Owen Pond is no longer recorded. Prince Charles Hospital has been built 200m to the east.
1995	The sites remain unchanged.	No notable changes to the surrounding area.
2001	All housing on the Honeysuckle Close site has been demolished and this area is now grassed. The Clos Gwyddfid site is partially surfaced with hardstanding and partially grassed.	No notable changes to the surrounding area.
2020	There has been no change to the Honeysuckle Close site since 2001. The Clos Gwyddfid site is now entirely grassed.	No notable changes to the surrounding area.

2.3 Geological Setting

2.3.1 Geology

The 1:50,000 scale British Geological Map of the area (Sheet SO 00 NW) was consulted for geology underlying the site. Stratigraphical information is provided in **Table 2.2**.

Table 2.2 Detailed Stratigraphical Information

Period	Group	Formation
Carboniferous	Millstone Grit	Bishopston Mudstone Formation

Strata are typically dipping 14° to the southwest in the local area.

No superficial deposits are recorded to be present

Made ground comprising building rubble material may be present on both sites following previous demolition of housing and other structures.

2.3.2 Radon

The Envirocheck Report (**Annex A**) details that basic radon protective measures are required for new developments on the investigation site.

2.3.3 Mining

The site situates outside the South Wales coal fields.

A Coal Authority Mining Report (**Annex B**) confirms that the site is not at risk from past shallow coal mining.

Ironstones are no recorded to be present in the area.

2.4 Environmental Setting

The following sections have been compiled using the Landmark Information Group Envirocheck datasheet and maps which can be found in **Annex A**.

2.4.1 Hydrogeology

The bedrock deposits beneath the site have an aquifer designation of secondary aquifer – A.

Deeper groundwater flow within the underlying bedrock will be controlled by the strata dip and any fractures or bedding planes within the rock units.

The hydraulic gradient will be at its steepest during periods of heavy rainfall and aquifer recharge.

The site does not locate within a groundwater source protection zone.

The nearest groundwater abstraction point is located 569m to the southwest.

2.4.2 Hydrology

The topography of the site slopes down towards to the southwest. Surface water is likely to drain in this direction.

The nearest surface water feature locates comprises a stream that issues 250m southwest of Honeysuckle Close.

The river Taff Fechan lies approximately 600m to the southwest and converges with the River Taff, which locates approximately 950m southwest.

2.4.3 Flooding

The site is not at risk from extreme flooding from rivers or sea.

2.4.4 Waste

There are no landfill sites, licensed waste management facilities or waste transfer or treatment sites within 250m of the site.

There are no premises with consent to discharge waste waters within 500m of the sites.

2.4.5 Pollution

No pollution incidents are recorded to have occurred within 250m radius of the sites.

No pollution prevention and control sites are registered within 250m of the sites.

2.4.6 Sensitive Land Use

The sites are not located within a sensitive land use area.

2.4.7 Industrial Land Use

No contemporary trades are listed as being within 250m of the sites.

2.4.8 Infilled Land

Potentially infilled land features within 250m of the site are summarised in **Table 2..**

Table 2.3 Potentially Infilled Land

Feature	Distance/Direction from site
Former stream	193m West

SECTION 3 Preliminary Human Health and Environmental Risk Assessment

3.1 General

The preliminary human health and environmental risk assessment is a qualitative evaluation of unacceptable risks to human health or the environment from potential 'contaminated land', based on reviewed information in preceding sections of this report.

For 'contaminated land' to exist as defined in Part 2A of the Environmental Protection Act (EPA) 1990, a Pollutant Linkage needs to be identified. Pollutant linkages are defined by having a valid 'source – pathway – receptor' as established in the preliminary conceptual site model.

For our definitions of pollution linkage and how we define risk please refer to **Annex C** which includes our classifications of consequence and probability, and risk assessment matrix.

3.2 Potential Sources of Contamination

Potential or known sources of contamination associated the sites' current and historical land use are summarised in **Table 3.1**.

Table 3.1 Contamination Sources

ID	Source	Contaminant
S1	Contaminated Soils	Asbestos may be present in relation to demolished houses. Petroleum hydrocarbons may be present in relation to spillages/leaks of oil/fuel from private vehicles
S2	Contaminated groundwater	Petroleum hydrocarbons may be present in relation to spillages/leaks of oil/fuel from private vehicles
S3	Aggressive ground conditions	Sulphates

No other significant potential on-site or off-site sources of contamination have been identified during the desk study.

3.3 Potential Pollution Pathways

Potential contaminant pathways associated with a residential with home grown produce land use are as follows.

- P1 – Direct soil and dust ingestion
- P2 – Plant uptake and consumption of home grown produce
- P3 – Dermal contact
- P4 – Inhalation of dust
- P5 – Inhalation of asbestos fibres
- P6 – Horizontal and vertical migration of vapours and inhalation
- P7 – Horizontal and vertical migration of radon gas
- P8 – Absorption into potable water pipes
- P9 – Surface run-off
- P10 – Vertical migration of leachates (unsaturated zone)
- P11 – Horizontal and vertical migration of contaminants (saturated zone)
- P12 – Artificial contaminant pathway (borehole, pile, excavation etc)
- P13 – Direct contact with construction materials

3.4 Potential Receptors

There are human and hydrological receptors to any contamination that may be present on both sites. Potential receptors include.

- R1 – Construction and maintenance workers
- R2 – Passers-by or neighbouring site users
- R3 – Future site users (residents)
- R4 – Surface waters (stream, rivers)
- R5 – Groundwater in Bishopston Mudstone Formation Secondary A Aquifer
- R6 – Construction materials (concrete/potable water pipes)

3.5 Preliminary Conceptual Site Model

The preliminary conceptual site model establishes potential pollutant linkages between contaminants (source), pathways and receptors, realised during the preparation of the desk study report. Where a potential pollutant linkage is identified an assessment of risk is subsequently undertaken. The preliminary conceptual site model is tabulated in **Table 3.2**.

Outcomes of the preliminary conceptual site model are used as a basis for the design and implementation of the site investigation, whereby areas of potential contamination can be targeted as well as investigating the wider site.

Findings of the site investigation can in turn be used to develop and refine the conceptual site model.

Table 3.2 Preliminary Conceptual Site Model

Source	Pathway	Receptor	Preliminary Risk Assessment		
			Consequence	Probability	Risk
Human Health					
Contaminated Soils S1	Direct soil and dust ingestion P1 Dermal contact P3 Inhalation of dust P4	Construction workers R1 and maintenance	Medium	Low Likelihood	Low - COSHH assessment and good level of PPE/ hygiene by site workers/ staff; dust suppression measures if required.
Contaminated Soils S1	Inhalation of asbestos fibres P5	Construction workers R1 and maintenance	Medium	Medium Likelihood	Medium Risk - Asbestos in rubble from previously demolished houses
Contaminated Soils S1	Horizontal and vertical migration of vapours and inhalation P6	Construction workers R1 and maintenance	Medium	Low Likelihood	Low
Contaminated Soils S1	Direct soil and dust ingestion P1 Consumption of home grown produce P2 Inhalation of dust P4 Inhalation of asbestos fibres P5 Horizontal and vertical migration of vapours and inhalation P6	Passers-by or neighbouring site users R2	Medium	Low Likelihood	Low - Asbestos in rubble from previously demolished houses. Dust suppression measures if required.
Contaminated Soils S1	Direct soil and dust ingestion P1 Consumption of home grown produce P2 Dermal contact P3 Inhalation of dust P4 Absorption into potable water pipes P8 Horizontal and vertical migration of vapours and inhalation P6	Future site users (residents) R3	Medium	Low Likelihood	Low
Contaminated Soils S1	Inhalation of asbestos fibres P5	Future site users (residents) R3	Medium	Medium Likelihood	Medium Risk - Asbestos in rubble from previously demolished houses
Radon Gas S4	Horizontal and vertical migration of ground gasses and inhalation P7	Future site users (residents) R3	Medium	Low Likelihood	Low
Contaminated groundwater S2	Dermal contact P3	Construction workers R1 and maintenance	Medium	Low Likelihood	Low
Contaminated groundwater S2	Dermal contact P3	Future site users (residents) R3	Medium	Low Likelihood	Low
Contaminated Soils S1	P13 – Direct contact with construction materials	Construction materials R6	Mild	Low Likelihood	Low
Contaminated groundwater	P13 – Direct contact with construction materials	Construction materials R6	Mild	Low Likelihood	Low

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S2					
Aggressive ground conditions – Sulphates S3	P13 – Direct contact with construction materials	Construction materials R6	Mild	Low Likelihood	Low
Aquatic Environment					
Contaminated Soils S1	Surface run-off P9	Surface waters R4 Groundwater (aquifer) R5	Mild	Low Likelihood	Low
	Vertical migration of leachates (unsaturated zone) P10	Surface waters R4 Groundwater (aquifer) R5			
	Horizontal and vertical migration of contaminants (saturated zone) P11				

SECTION 4 Field Investigation

4.1 Site Works

A geotechnical and geoenvironmental site investigation comprising trial pits and soakaway testing was undertaken in November 2020.

At Honeysuckle Close Seven pits, including two soakaway tests, were completed (TP1 – TP5, SA1 & SA2). At Clos Gwyddfid four trial pits were excavated (TPA, TPB, TPB2 & TPC).

The fieldwork was supervised by Terra Firma (Wales) Limited, who logged the exploratory holes to the requirements of BS 5930:2015+A1:2020. The proposed locations of the exploratory holes were determined by Terra Firma (Wales) Ltd in general accordance with BS 10175:2011+A2:2017 in order to assess the findings of the preliminary conceptual site model.

Trial pits were dug using a 5 tonne tracked excavator.

Exploratory hole locations are shown on **Drawing 01**.

Trial pit logs from Honeysuckle Close may be found in **Annex D**. Logs from Clos Gwyddfid are provided in **Annex E**.

4.2 Ground Conditions

The ground conditions encountered by the exploratory holes can in general be summarised as shown in **Table 4.1** and **5.2**.

Table 4.1 Summary of Typical Ground Conditions – Honeysuckle Close

Depth (m)			Thickness (m)	Stratum
0.00	-	0.4/1.5	0.2/1.5	MADE GROUND: Soft dark brown CLAY / Dark grey clayey SAND and GRAVEL / Loose GRAVEL of slag, Firm orange brown sandy CLAY / Loose dark grey brown clayey SAND and GRAVEL and COBBLE . Content of brick, plastic, tile, pipe and glass in places
0.4/1.5	-	1.3/2.2	-	Dense brown/orange brown SAND and fine to coarse angular GRAVEL and COBBLE of sandstone

Buried foundations were recorded in TP2, comprising a 200mm thick concrete strip founded at 0.9m below ground level.

A strip foundation was also noted in TP3. The foundation base could not accurately be recorded but the top of the foundation was confirmed to be 1.5m below existing ground level.

Weathered bedrock was encountered at 0.2m below ground level in TP5 below a thin layer of soft brown gravelly clay.

Table 4.2 Summary of Typical Ground Conditions - Clos Gwyddfif

Depth (m)			Thickness (m)	Stratum
0.00	-	0.25/0.3	0.25/0.3	MADE GROUND: Soft dark brown sandy gravelly CLAY
0.25/0.3	-	0.7/1.9	0.45/1.6	MADE GROUND: Loose grey brown clayey SAND and GRAVEL with fragments of brick, kerbstone, plastic, fabric, paving stone and pipe (TP1) / tan brown gravelly SAND / Soft grey sandy CLAY / Medium dense brown grey clayey SAND and GRAVEL (TP2A)
0.7/1.9	-	1.0/2.0	-	Dense to very dense orange brown SAND and GRAVEL and COBBLE of sandstone (weathered bedrock)

TPB and TPC were terminated due to the presence of buried concrete.

The thickness of made ground increases towards the northeast, where the site slopes upwards.

4.3 Groundwater

Groundwater was not encountered in the exploratory holes.

4.4 Stability

Trial pits generally remained stable and vertical during excavation.

4.5 Laboratory Chemical Testing

4.5.1 Sampling Strategy

Soil sampling locations were selected on a non-targeted basis to characterise the contamination status of both sites.

Sample locations, depths and suspected/known contamination source targets are summarised in **Table 4.**

Table 4.3 Sample Locations, Depths and Targets

Location	Depth (m)	Contamination Targets
Honeysuckle Close		
SA1	0.3	S1, S2
TP1	0.6	
TP2	0.4	
TP3	0.4	
TP4	0.2	
TP5	0.2	
Clos Gwyddfif		
TPA	0.5	S1, S2
TPB	0.4	
TPC	0.3	

4.5.2 Soil Laboratory Analysis

During the site investigation works soil samples were taken and despatched to the accredited laboratories of Eurofins Chemtest for laboratory chemical testing. Soil samples were tested for the determinants listed in **Table 5.4**.

Table 4.4 Soil Laboratory Analysis

Metals & Metalloids	In-Organics	Organics	Others
Arsenic	Cyanide	Phenols	pH (acidity)
Cadmium	Sulphate	PAH	Asbestos
Chromium III		Petroleum Hydrocarbons	
Chromium VI			
Copper			
Lead			
Mercury			
Nickel			
Selenium			
Zinc			

The results are discussed in detail in **SECTION 6** and the laboratory test results certificates may be found in **Annex F**.

4.6 Soil Property Testing

4.6.1 In-situ Permeability Testing

During the site investigation two trial pit soakaway tests were undertaken at Honeysuckle Close in SA1 and SA2 and carried out in general accordance with BRE DG 365:2016.

Soakaway test results are summarised in **Table 4..**

Table 4.5 Summary of Soakaway Results

Trial Pit	Depth Range of Test (m)	Infiltration Rate (ms^{-1})
SA1	1.3m	3.58×10^{-05} , 3.13×10^{-05} , 6.12×10^{-05}
SA2	1.6m	Negligible infiltration recorded

The test results are discussed in **SECTION 8.6** and the calculation sheets may be found in **Annex G**.

4.6.2 Laboratory Geotechnical Testing

A schedule of laboratory tests was prepared by Terra Firma Wales Ltd and samples were despatched to the accredited laboratories of Apex Testing Solutions. A summary of the testing carried out is presented in **Table 4..**

Table 4.6 Summary of Geotechnical Testing

Geotechnical Test	Standard (BS1377:1990)	No. Tested
4 Point Liquid and Plastic Limit	Part 2, Clause 4.3 & 5.3	3

The test results are presented in **Annex H** and discussed in **SECTION 6** of this report.

SECTION 5 Evaluation of Geoenvironmental Analytical Results

5.1 Assessment Methodology

Comparison of the analytical results has been made with the 2015 Suitable 4 Use Levels (S4UL) provided by Land Quality Management (LQM) Limited and the Chartered Institute of Environmental Health (CIEH) or provisional Category 4 Screening Levels (pC4SL).

Sulphate results have been compared to guidelines presented in British Research Establishment (BRE SD1:2015). Sulphate levels need only be considered for buried concrete risk assessment and are not human health related.

5.2 Soil Test Results

A summary of the chemical test results which include the regulatory soil guideline values used in a residential setting with plant uptake* are given in the following tables. The complete results can be found in **Annex F**.

5.2.1 Honeysuckle Close

5.2.1.1 Inorganics & Miscellaneous

Six samples were tested for a standard suite of inorganics, pH and organic matter. The summarised results are in **Table 5.1**.

Table 5.1 Honeysuckle Close Summary of Soil Chemical Test Results – Inorganics & Miscellaneous

Substance	Threshold Value (mg/kg)	Source	Measured Concentrations (mg/kg)		Number of Exceedances
			Minimum	Maximum	
Arsenic	37	LQM/CIEH	4.5	20	0
Cadmium	11	LQM/CIEH	0.17	0.5	0
Chromium III	910	LQM/CIEH	13	49	0
Chromium VI	6	LQM/CIEH	<0.5	<0.5	0
Copper	2400	LQM/CIEH	12	26	0
Lead	200	pC4SL	29	92	0
Mercury (inorganic)	40	LQM/CIEH	<0.05	0.1	0
Nickel	180	LQM/CIEH	11	36	0
Selenium	250	LQM/CIEH	<0.2	0.67	0
Zinc	3700	LQM/CIEH	38	170	0
Cyanide	-	-	<0.5	<0.5	-
Boron	290	LQM/CIEH	<0.4	0.54	0
Sulphate (%)	0.24	BRE	0.048	0.32	2/6
Organic Matter (%)	-	-	0.4	3.5	-
pH	-	-	8.3	10.0	-
Aqueous sulphate (g/l)	0.5		<0.01	0.28	0
Notes:					
- No available guideline					

5.2.1.2 Organics

Six samples were tested for speciated polycyclic aromatic hydrocarbons. The summarised results are in **Table 5.2**.

Table 5.2 Honeysuckle Close Summary of Soil Chemical Test Results – Speciated Polycyclic Aromatic Hydrocarbons and Phenols

Substance	Threshold Value (mg/kg)	Source	Measured Concentrations (mg/kg)		Number of Exceedances
			Minimum	Maximum	
Naphthalene	2.3	LQM/CIEH	<0.01	0.1	0
Acenaphthylene	170	LQM/CIEH	<0.01	0.2	0
Acenaphthene	210	LQM/CIEH	<0.01	3.1	0
Fluorene	170	LQM/CIEH	<0.01	0.34	0
Phenanthrene	95	LQM/CIEH	<0.01	2.1	0
Anthracene	2400	LQM/CIEH	<0.01	0.54	0
Fluoranthene	280	LQM/CIEH	<0.01	5.5	0
Pyrene	620	LQM/CIEH	<0.01	3.6	0
Benzo(a)anthracene	7.2	LQM/CIEH	<0.01	2.4	0
Chrysene	15	LQM/CIEH	<0.01	3.0	0
Benzo(b)fluoranthene	2.6	LQM/CIEH	<0.01	3.7	2/6
Benzo(k)fluoranthene	77	LQM/CIEH	<0.01	1.7	0
Benzo(a)pyrene	2.2	LQM/CIEH	<0.01	2.6	1/6
Indeno(123cd)pyrene	27	LQM/CIEH	<0.01	1.8	0
Dibenzo(ah)anthracene	0.24	LQM/CIEH	<0.01	0.73	3/6
Benzo(ghi)perylene	320	LQM/CIEH	<0.01	2.5	0
Total PAH	-	-	<2.0	33	-
Phenols	120	LQM/CIEH	<0.3	<0.3	0
Notes: Thresholds based on 1.0% soil organic matter - No available guidelines					

Six samples were tested for petroleum hydrocarbon. The summarised results are shown in **Table 5.3**.

Table 5.3 Honeysuckle Close Summary of Soil Chemical Test Results – Petroleum Hydrocarbons

Substance	Threshold Value (mg/kg)	Source	Measured Concentrations (mg/kg)		Number of Exceedances
			Minimum	Maximum	
Aliphatic					
PH C5 – C6 Ali	42	LQM/CIEH	<1.0	<1.0	0
PH C6 – C8 Ali	100	LQM/CIEH	<1.0	<1.0	0
PH C8 – C10 Ali	27	LQM/CIEH	<1.0	<1.0	0
PH C10 – C12 Ali	130	LQM/CIEH	<1.0	<1.0	0
PH C12 – C16 Ali	1100	LQM/CIEH	<1.0	<1.0	0
PH C16 – C21 Ali	65000*	LQM/CIEH	<1.0	<1.0	0
PH C21 – C35 Ali	65000*	LQM/CIEH	<1.0	<1.0	0
PH C35 – C44 Ali	65000	LQM/CIEH	<1.0	<1.0	0
Aromatic					
PH C5 – C7 Arom	70	LQM/CIEH	<1.0	<1.0	0
PH C7 – C8 Arom	130	LQM/CIEH	<1.0	<1.0	0
PH C8 – C10 Arom	34	LQM/CIEH	<1.0	<1.0	0
PH C10 – C12 Arom	74	LQM/CIEH	<1.0	<1.0	0
PH C12 – C16 Arom	140	LQM/CIEH	<1.0	<1.0	0
PH C16 – C21 Arom	260	LQM/CIEH	<1.0	<1.0	0
PH C21 – C35 Arom	1100	LQM/CIEH	<1.0	<1.0	0
PH C35 – C44 Arom	1100	LQM/CIEH	<1.0	<1.0	0
Notes: PH – Petroleum Hydrocarbon Ali – Aliphatic Arom – Aromatic Thresholds based on 1.0% soil organic matter * – Ali C16-21 and C21-C35 based on criteria for Ali EC >16-35					

5.2.1.3 Asbestos Testing

All soil samples were scheduled for asbestos screening. Asbestos was not detected.

5.2.2 Clos Gwyddfif

5.2.2.1 Inorganics & Miscellaneous

Three samples were tested for a standard suite of inorganics, pH and organic matter. The summarised results are in **Table 6.4**

Table 5.4 Clos Gwyddfif Summary of Soil Chemical Test Results – Inorganics & Miscellaneous

Substance	Threshold Value (mg/kg)	Source	Measured Concentrations (mg/kg)		Number of Exceedances
			Minimum	Maximum	
Arsenic	37	LQM/CIEH	9.9	20	0
Cadmium	11	LQM/CIEH	0.25	0.5	0
Chromium III	910	LQM/CIEH	15	53	0
Chromium VI	6	LQM/CIEH	<0.5	<0.5	0
Copper	2400	LQM/CIEH	15	28	0
Lead	200	pC4SL	36	48	0
Mercury (inorganic)	40	LQM/CIEH	0.06	0.13	0
Nickel	180	LQM/CIEH	16	25	0
Selenium	250	LQM/CIEH	0.24	0.65	0
Zinc	3700	LQM/CIEH	56	150	0
Cyanide	-	-	<0.5	<0.5	-
Boron	290	LQM/CIEH	<0.4	0.61	0
Sulphate (%)	0.24	BRE	0.069	0.12	0
Organic Matter (%)	-	-	1.4	7.8	-
pH	-	-	8.7	8.9	-
Notes:					
- No available guideline					

5.2.2.2 Organics

Three samples were tested for speciated polycyclic aromatic hydrocarbons. The summarised results are in **Table 6.5**

Table 5.5 Clos Gwyddfild Summary of Soil Chemical Test Results – Speciated Polycyclic Aromatic Hydrocarbons and Phenols

Substance	Threshold Value (mg/kg)	Source	Measured Concentrations (mg/kg)		Number of Exceedances
			Minimum	Maximum	
Naphthalene	2.3	LQM/CIEH	<0.01	1.3	0
Acenaphthylene	170	LQM/CIEH	<0.01	1.5	0
Acenaphthene	210	LQM/CIEH	<0.01	9.2	0
Fluorene	170	LQM/CIEH	<0.01	7.2	0
Phenanthrene	95	LQM/CIEH	<0.01	28	0
Anthracene	2400	LQM/CIEH	<0.01	8.1	0
Fluoranthene	280	LQM/CIEH	<0.01	35	0
Pyrene	620	LQM/CIEH	<0.01	31	0
Benzo(a)anthracene	7.2	LQM/CIEH	<0.01	22	1/3
Chrysene	15	LQM/CIEH	<0.01	28	1/3
Benzo(b)fluoranthene	2.6	LQM/CIEH	<0.01	33	1/3
Benzo(k)fluoranthene	77	LQM/CIEH	<0.01	12	0
Benzo(a)pyrene	2.2	LQM/CIEH	<0.01	24	1/3
Indeno(123cd)pyrene	27	LQM/CIEH	<0.01	19	0
Dibenzo(ah)anthracene	0.24	LQM/CIEH	<0.01	6.3	1/3
Benzo(ghi)perylene	320	LQM/CIEH	<0.01	18	0
Total PAH	-	-	<2.0		-
Phenols	120	LQM/CIEH	<0.3	<0.3	0
Notes: Thresholds based on 1.0% soil organic matter - No available guidelines					

Three samples were tested for petroleum hydrocarbon. The summarised results are shown in **Table 6.6**.

Table 5.6 Clos Gwyddfild Summary of Soil Chemical Test Results – Petroleum Hydrocarbons

Substance	Threshold Value (mg/kg)	Source	Measured Concentrations (mg/kg)		Number of Exceedances
			Minimum	Maximum	
Aliphatic					
PH C5 – C6 Ali	42	LQM/CIEH	<1.0	<1.0	0
PH C6 – C8 Ali	100	LQM/CIEH	<1.0	<1.0	0
PH C8 – C10 Ali	27	LQM/CIEH	<1.0	<1.0	0
PH C10 – C12 Ali	130	LQM/CIEH	<1.0	<1.0	0
PH C12 – C16 Ali	1100	LQM/CIEH	<1.0	<1.0	0
PH C16 – C21 Ali	65000*	LQM/CIEH	<1.0	24	0
PH C21 – C35 Ali	65000*	LQM/CIEH	<1.0	260	0
PH C35 – C44 Ali	65000	LQM/CIEH	<1.0	<1.0	0
Aromatic					
PH C5 – C7 Arom	70	LQM/CIEH	<1.0	<1.0	0
PH C7 – C8 Arom	130	LQM/CIEH	<1.0	<1.0	0
PH C8 – C10 Arom	34	LQM/CIEH	<1.0	<1.0	0
PH C10 – C12 Arom	74	LQM/CIEH	<1.0	<1.0	0
PH C12 – C16 Arom	140	LQM/CIEH	<1.0	<1.0	0
PH C16 – C21 Arom	260	LQM/CIEH	<1.0	<1.0	0
PH C21 – C35 Arom	1100	LQM/CIEH	<1.0	<1.0	0
PH C35 – C44 Arom	1100	LQM/CIEH	<1.0	<1.0	0
Notes: PH – Petroleum Hydrocarbon Ali – Aliphatic Arom – Aromatic Thresholds based on 1.0% soil organic matter * – Ali C16-21 and C21-C35 based on criteria for Ali EC >16-35					

5.2.2.3 Asbestos Testing

All soil samples were scheduled for asbestos screening. Asbestos was not detected.

SECTION 6 Geotechnical Testing Results

Geotechnical testing results are summarised in the following sections and presented in their entirety in **Annex H**.

6.1 Plasticity & Moisture Content Testing

During the investigation three samples of the shallow clay material was taken from Honeysuckle Close trial pits and submitted for plasticity testing. The test results are summarised in **Table 6.**

Table 6.1 Plasticity & Moisture Content Test Results

Location	Depth (m)	Laboratory Principal Soil Type	Plasticity Index (%)	Passing 425µm Sieve (%)	Modified Plasticity Index (%)	Volume Change Potential
SA1	0.8	Clay	11	82	9	-
TP2	1.2	Clay	19	72	14	Low
TP4	1.0	Clay	10	76	7.6	-

In line with the NHBC (Chapter 4.2), the modified plasticity index for each sample was calculated. For design purposes the soils on site should be assumed to have a low volume change potential.

SECTION 7 Quantitative Risk Assessment

7.1 Contaminants of Concern

Contaminants identified as part of the investigation are summarised in **Table 7.1** and **Table 7.2**, along with an interpretation of the likely contamination source. Where applicable, the contaminant, source relationship is based on the inferences made in the preliminary conceptual site model.

Table 7.1 Honeysuckle Close - Contaminants of Concern

Location	Depth	Contaminant	Source
SA1	0.3	Benzo(b)fluoranthene Benzo(a)pyrene Benzo(ghi)perylene Sulphate	Made Ground
TP2	0.4	Benzo(ghi)perylene	Made Ground
TP4	0.2	Benzo(b)fluoranthene Benzo(ghi)perylene Sulphate	Made Ground

Table 7.2 Clos Gwyddfid - Contaminants of Concern

Location	Depth	Contaminant	Source
TPB	0.4	Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene Dibenz(ghi)anthracene	Made Ground

7.2 Pollutant Linkages

Based on the findings of the intrusive site investigation and identified contaminants, the preliminary conceptual site model has been revised. Significant pollutant linkages are tabulated in the refined conceptual site model **Table 7.3**. Identified pollutant linkages will require detailed risk assessment, appropriate mitigation or remedial measures.

Table 7.3 Refined Conceptual Site Model

Source	Pathway	Receptor
Contaminated Soils S1	Direct soil and dust ingestion P1 Dermal contact P3 Inhalation of dust P4	Construction and maintenance workers R1
	Inhalation of dust P4	Passers-by and neighbouring site users R2
	Direct soil and dust ingestion P1 Consumption of home grown produce P2 Dermal contact P3 Inhalation of dust P4	Future site users R3
	Horizontal and vertical migration of vapours and inhalation P6	Future site users R3 at Clos Gwyddfid

7.3 Mitigation and Remedial Measures

The following sections summarise the likely mitigation and remedial measures suitable for the identified contamination and proposed development. Detailed methodology to achieve the measures should be prescribed in a Remediation Strategy Report and the results presented in a Validation Report upon completion of the development.

7.3.1 Human Health

7.3.1.1 Contaminated Soils

Site specific mitigation and remedial measures are required with respect to human health.

To protect future site residents from the identified contamination the Honeysuckle Close and Clos Gwyddfild sites the made ground should be capped or removed.

Capping should consist of the proposed buildings and hard standings and in garden and soft landscaped areas 600mm of suitable inert topsoil, and subsoil if desired.

With regards to high levels of PAHs in made ground at Clos Gwyddfild in TPB at 0.4m, this material will need to be removed to reduce the ground level in order to accommodate the new development.

Excavated made ground should be disposed of at a suitably licenced landfill site.

As good practice, construction workers should adhere to good site management, COSHH, good standards of hygiene and appropriate health & safety on site, with personal protection equipment (PPE) and dust suppression where appropriate.

All imported soils should be validated as clean and suitable for use in accordance with 'Requirements for the Chemical Testing of Imported Soils for Various End Uses and Validation Cover Systems'.

For proposed new supply water pipes, the UK Water Industry Research publication 'Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites (Report 10/WM/03/21)' should be consulted.

In accordance with EC Regulation 1272/2008 and Environment Agency Guidance WM3 soils destined for off-site disposal should be classified on the basis of their hazard phrases prior to disposal. Soils are classified as a mirror entry waste and should be classified on the basis of their specific chemical properties.

7.3.1.2 Radon

To mitigate against the risk to future site users from radon gas, basic protection measures will be required in all structures. Reference should be made to guidance publication BR 211:2015 for further details on required protection elements. Verification of the installed protection measures is highly recommended. Terra Firma Wales Ltd. offer a comprehensive ground gas protection system verification service.

It is recommended that a specialist consultant is retained to prepare a risk assessed ground gas protection system Verification Plan for the proposed development. The Verification Plan will detail the required protection measures based on the perceived risk associated with the complexity of design, experience of the installer, size of the site and gas characteristic situation. The Verification Plan also details the step by step process and requirements to allow for the completion of a Validation Report. Terra Firma (Wales) Ltd offer Verification and Validation services.

Validation of installed ground gas protection systems by an independent third party will be required upon completion of the development. Validation may only be achieved if processes prescribed in the Verification Plan are undertaken.

7.3.2 Aquatic Environment

Site specific mitigation and remedial measures are not required with respect to the aquatic environment. Contaminants of concern in soil were not present at levels that could present unacceptable leachate concentrations.

During the construction period, there is a risk to the environment/adjacent sites from de-watering, digging foundations, moving contaminated soil, drainage misconceptions, discharges to local surface waters or the ground, runoff from construction materials and/or exposed ground, wheel washings and oil or chemical spills.

The risk is considered to be negligible as any adverse effects will be easily preventable by due diligence to good construction practise and housekeeping in preventing surface runoff and the spillage of materials.

The basic measures that should be taken are as follows:

- Prepare a drainage plan and mark the manholes to prevent pollutants accidentally reaching the surface water sewers;
- Carry out any activities that could cause pollution in a designated, bunded area, away from rivers or boreholes. Where possible it should drain to the foul sewer;
- Use settlement ponds to remove silty water;
- Store all oils and chemicals in a fully bunded area to prevent leaks or spills;
- Get advice on whether you need an environmental permit and apply in good time

SECTION 8 Engineering Recommendations

8.1 Preparation of Site

Areas of vegetation including all roots should be stripped and removed from beneath the proposed development site.

Significant allowances should be made for buried hardstanding and old foundations. These should be excavated out and removed beneath all proposed development areas.

Allowances should also be made for any temporary/permanent support works to any existing adjacent structure necessary as a result of the proposed works.

Contingencies should be made for the protection/diversion of any underground/overhead services present beneath/above the site brought about as a result of the proposed works.

Any reduced levels should be brought up to the required levels with suitable inert mainly granular materials. Department of Transport (DTP) type 2 sub-base or similar should be used and compacted in layers to the requirements of the Specification for Highway Works.

Allowances should also be made for the excavation of any soft spots/areas and their replacement with well compacted imported granular materials.

In accordance with EC Regulation 1272/2008 and Environment Agency Guidance WM3 soils and other materials destined for off-site disposal should be classified on the basis of their hazard phrases prior to disposal. Soils are classified as a mirror entry waste and should be classified on the basis of their specific chemical properties. Terra Firma (Wales) Ltd offer this service if required.

8.2 Foundation and Floor Slab Solution

It is recommended that for both sites mass/reinforced concrete strip or trench fill foundations be used; founded within the underlying granular soils and/or weathered bedrock at an approximate depth of 0.4m – 1.5m below the existing ground level at Honeysuckle Close and between 0.7m – 1.9m below the existing ground level at Close Gwyddfid. An allowable bearing pressure of 100kN/m² may be used for strips up to 600mm wide.

Should foundations span across the granular deposits and shallow bedrock they should be designed as reinforced to prevent any differential settlement.

Foundations must sit at least 200mm within the founding horizon.

For the given foundation solutions and bearing pressure, maximum total settlements of 25mm should result with differential movements of the superstructure not exceeding 1:750.

Floor slabs should be designed as suspended.

Allowances should be made for the removal of any 'soft spots' and their replacement with well-compacted granular materials. Department of Transport (DoT) Type 2 materials or similar could be used and should be compacted in layers to the specification for Highway Works.

All foundation formations should be inspected by a suitably qualified Engineer before being concreted.

8.3 Excavations and Formations

Specialist excavating machinery may be required for breaking our buried structures.

Shallow perched water and groundwater flows were not encountered during the investigation. Any water inflows together with rainwater infiltration should be dealt with by conventional pumping techniques. However, it should be noted that during times of heavy rainfall a higher water table will be encountered.

The sides of any excavations deeper than 1.20m, or shallower if unstable, should be supported by planking and strutting or other proprietary means.

The sub-formations/formations are likely to be susceptible to loosening, softening and deterioration by exposure to weather (rain, frost and drying conditions), the action of water (flood water or removal of groundwater) and site traffic.

Formations should never be left unprotected and continuously exposed to rain causing degradation, or left exposed/uncovered overnight, unless permitted by a qualified engineer.

Construction plant and other vehicular traffic should not be operated on unprotected formations.

As a minimum the formation/excavation surfaces must be protected by blinding concrete immediately after exposure.

Allowances should be made for the removal of soft spots/areas and their replacement with well compacted granular materials.

Allowances should also be made for special precautions to prevent formation deterioration in addition to the above.

8.4 Protection of Buried Concrete

When the results are compared with Table C1 and C2 of BRE Digest 1:2005, it indicates that buried concrete should generally conform to Class AC-1.

8.5 Access Roads and Car Parking Areas

For car parking and road areas, formations within the in-situ natural soils a CBR value of 1% may be used for design purposes.

Allowances should be made for the removal of any 'soft spots/areas' and their replacement with well-compacted granular materials as previously described.

Please note that the Local Council / Highways Authority may require in-situ CBR testing to be undertaken before a road is adopted. In-situ CBR Testing should be performed following earthworks to verify the performance of the engineered fill.

8.6 Storm Water Drainage

During the site investigation two soakaway tests were undertaken at Honeysuckle Close in general accordance with BRE DG 365:2016. The soakaway tests were carried out in SA1 and SA2 within natural materials.

Soakaway testing at Clos Gwyddfid was not possible due to underlying concrete in the desired test location.

SA2 recorded insufficient infiltration and was subsequently terminated early.

In SA1 the calculated infiltration rates from the three test fills were between $3.138 \times 10^{-04} \text{ ms}^{-01}$ and $6.12 \times 10^{-05} \text{ ms}^{-01}$.

Proposed soakaways should be positioned at least 5.0m away from any structure.

8.7 Retaining Walls

Due to the sloping nature of the sites, retaining walls may be required. The existing steepness of any embankments should not be increased. Any cuts should be undertaken in small sections and in such a way so as not to induce any instability to the ground.

Effective shear parameters for retaining wall design are presented in **Table** .

Table 8.1 Effective Shear Stress Parameters

Stratum Description	Bulk Unit Weight (γ) kN/m^3	Effective Cohesion (c') kN/m^2	Effective Angle of Shearing Resistance (ϕ') degrees
Made Ground	15-17	0	18
Medium dense granular soils	18	0	30
Well compacted, granular materials, compacted as per Specification for Highway Works and other relevant guidance such as British Standards (BS) 6031: 1981. Code of Practise for Earthworks.	19-20	0	30-35
Weathered Sandstone/Mudstone	20	>25	20-30

The parameters are based on experience in similar ground conditions.

The materials to be in-filled behind the retaining wall should be placed at or close to its optimum moisture content/maximum dry density and compacted in layers as per the requirements of the Specification for Highway Works. During the earthworks suitable in-situ testing should be carried out to ensure that the compaction process is achieving the required maximum dry density to achieve at least 95% compaction.

The acceptability of the filling works should be verified by appropriate on-site testing. A certification report should also be prepared on the earthworks by a suitably qualified Geotechnical Engineer.

Appropriate drainage should be incorporated in the design to prevent the build-up of hydrostatic pressure.

Appropriate cutting and benching of the existing slopes should be conducted prior to the replacement of any imported fill to minimise the risk of any slip surfaces forming on the interface between the existing materials.

**ANNEX A
Envirocheck Report**

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

268703332_1_1

Customer Reference:

16396RH

National Grid Reference:

304190, 208020

Slice:

A

Site Area (Ha):

0.28

Search Buffer (m):

1000

Site Details:

Honeysuckle Close
MERTHYR TYDFIL
CF47 9DD

Client Details:

Ms R Liley
Terra Firma (Wales) Ltd
5 Deryn Court
Wharfdale Road
Pentwyn
Cardiff
CF23 7HB

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Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client. In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1		Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2				6
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 3			1	1
Local Authority Pollution Prevention and Control Enforcements	pg 3			2	
Nearest Surface Water Feature	pg 4			Yes	
Pollution Incidents to Controlled Waters	pg 4			4	13
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances	pg 7			12	
River Quality	pg 8			1	2
River Quality Biology Sampling Points	pg 9				1
River Quality Chemistry Sampling Points	pg 10				8
Substantiated Pollution Incident Register	pg 17			1	1
Water Abstractions	pg 18				2 (*1)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 18	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 19	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 19			47	103

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 37			1	
Local Authority Landfill Coverage	pg 37	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 37				1
Potentially Infilled Land (Non-Water)	pg 37				3
Potentially Infilled Land (Water)	pg 37		1	6	11
Registered Landfill Sites					
Registered Waste Transfer Sites	pg 38			1	
Registered Waste Treatment or Disposal Sites	pg 38			1	
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 39	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 39	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 42				4
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 43	Yes	n/a	n/a	n/a
Mining Instability	pg 43	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities	pg 43		1		3
Non Coal Mining Areas of Great Britain	pg 44	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 44	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 44	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 44		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 44		Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 45	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 45	Yes	n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 46			3	15
Fuel Station Entries					
Points of Interest - Commercial Services	pg 47				7
Points of Interest - Education and Health	pg 48			6	
Points of Interest - Manufacturing and Production	pg 48			3	8
Points of Interest - Public Infrastructure	pg 49				20
Points of Interest - Recreational and Environmental	pg 51		2	1	15
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 53		2	2	9
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves	pg 53				1
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 54				1
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	73	1	304192 208150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	97	1	304350 208000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	107	1	304250 208150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	109	1	304050 208050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	207	1	304050 208250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	294	1	304350 207700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	325	1	304500 207800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (SE)	346	1	304550 207850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	363	1	304150 207600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	365	1	304500 208250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (SE)	368	1	304550 207800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	370	1	304600 208050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (NE)	376	1	304550 208200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	389	1	304450 208350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (SE)	394	1	304550 207750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	405	1	304550 208250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	412	1	304150 207550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	419	1	304600 208200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	424	1	304500 208350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	429	1	304650 208100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14SW (SE)	436	1	304600 207750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	445	1	304600 208250

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (SE)	457	1	304650 207800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A9NW (SE)	457	1	304550 207650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (SW)	463	1	303850 207650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	473	1	304150 208550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	481	1	304400 208500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A9NW (SE)	493	1	304550 207600
1	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Merthyr - Goitre Lane Authority: Natural Resources Wales Catchment Area: River Taff Reference: AE2025303 Permit Version: 1 Effective Date: 15th April 1964 Issued Date: 15th April 1964 Revocation Date: 10th December 2001 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Goitre Stream Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A14SE (E)	917	2	305150 208000
2	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Goitre Lane Cso, Gurnos, Merthyr Tydfil, Cf47 9ty Authority: Natural Resources Wales Catchment Area: NANT MORLAIS - SOURCE TO CONF R TAFF Reference: Ae2025303 Permit Version: 4 Effective Date: 21st August 2019 Issued Date: 21st August 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Goitre Brook Status: Effective Positional Accuracy: Located by supplier to within 10m	A14SE (E)	981	2	305200 207820
2	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso Goitre Lane Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: NANT MORLAIS - SOURCE TO CONF R TAFF Reference: Ae2025303 Permit Version: 2 Effective Date: 11th December 2001 Issued Date: 10th December 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Goitre Brook Status: Effective Positional Accuracy: Located by supplier to within 10m	A14SE (E)	981	2	305200 207820

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso Goitre Lane Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: NANT MORLAIS - SOURCE TO CONF R TAFF Reference: Ae2025303 Permit Version: 2 Effective Date: 11th December 2001 Issued Date: 10th December 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Goitre Brook Status: Effective Positional Accuracy: Located by supplier to within 10m	A14SE (E)	981	2	305200 207820
2	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Water Supply Grid Location: Penybryn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Am0008401 Permit Version: 1 Effective Date: 2nd October 1989 Issued Date: 2nd October 1989 Revocation Date: 14th March 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Soakaway Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A14SE (E)	985	2	305200 207800
3	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Cefn Coed Stw Authority: Natural Resources Wales Catchment Area: River Taff Reference: Ag0008001 Permit Version: 1 Effective Date: 30th January 1985 Issued Date: 30th January 1985 Revocation Date: 26th April 1991 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Not Supplied Environment: Receiving Water: Taff Fawr Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	982	2	303300 207540
4	Local Authority Pollution Prevention and Controls Name: Prince Charles Hospital Location: Gurnos Road, Gurnos Estate, MERTHYR TYDFIL, Mid Glamorgan, CF47 9DT Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: PG5/1/A Dated: 30th October 1992 Process Type: Local Authority Pollution Prevention and Control Description: PG5/1/Clinical waste incineration processes under 1 tonne an hour Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	309	3	304496 208161
5	Local Authority Pollution Prevention and Controls Name: Beacons Products Location: E.F.I. Industrial Estate Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: Not Supplied Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/32 Adhesive coating Status: Application exempt from APC Positional Accuracy: Manually positioned to the address or location	A7SE (SW)	841	3	303835 207204
6	Local Authority Pollution Prevention and Control Enforcements Location: Prince Charles Hospital Type: Air Pollution Control Enforcement Notice Reference: PG/1/A/Enf2 Date Issued: Not Supplied Enforcement Date: 28th July 1993 Details: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	309	3	304496 208161

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Local Authority Pollution Prevention and Control Enforcements Location: Prince Charles Hospital Type: Air Pollution Control Enforcement Notice Reference: PG/1/A/Enf1 Date Issued: Not Supplied Enforcement Date: 28th July 1993 Details: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	309	3	304496 208161
	Nearest Surface Water Feature	A13SW (SW)	257	-	303941 207879
7	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Between Cefn, Coed Fishing, Tackle Shop Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 22nd August 1995 Incident Reference: 25685 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	A13SW (SW)	330	4	303900 207800
7	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Between Cefn, Coed Fishing, Tackle Shop Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 22nd August 1995 Incident Reference: 25685 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	A13SW (SW)	333	4	303900 207795
8	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Taff Fechan Reservoir Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Not Supplied Incident Date: 30th January 1995 Incident Reference: 22627 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	A18SE (N)	425	4	304200 208500
9	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewerage Location: The Well Str, Area Of Cefn Coed Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Blocked Sewer Incident Date: 29th August 1995 Incident Reference: 25641 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (SW)	469	4	303800 207700
10	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Surface Water Outfall Location: Taf Fechan, Nature Reserve Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Weather Incident Date: 21st December 1994 Incident Reference: 22204 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SE (N)	574	4	304400 208600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewerage Location: 150 Metres Up Stream Of, Gwynnes Arms Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Other Organic Note: Blocked Sewer Incident Date: 9th November 1995 Incident Reference: 26683 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (W)	605	4	303600 207800
12	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Confluence Of, Tabernacle Road Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 24th August 1996 Incident Reference: 29792 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	A7NE (SW)	640	4	303750 207500
13	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Agricultural: Silage Liquor Note: Natural Causes Incident Date: 6th May 1995 Incident Reference: 24175 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Natural Causes Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	690	4	304000 207300
14	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewerage Location: Taff Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Deliberate Act Incident Date: 21st August 1994 Incident Reference: 21250 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	763	4	303905 208795
14	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewerage Location: Maple Crescent Authority: Environment Agency, Welsh Region Pollutant: Chlorinated Water Note: Deliberate Act Incident Date: 21st August 1994 Incident Reference: 21582 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	765	4	303900 208795
14	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewerage Location: Taff Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Deliberate Act Incident Date: 21st August 1994 Incident Reference: 21582 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	768	4	303905 208800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewerage Location: Maple Crescent Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Deliberate Act Incident Date: 21st August 1994 Incident Reference: 21250 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	770	4	303900 208800
15	Pollution Incidents to Controlled Waters Property Type: Not Given Location: TREFECHAN Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Accidental Spillage/Leakage Incident Date: 27th June 1996 Incident Reference: 28985 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	785	4	303500 208495
15	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewerage Location: TREFECHAN Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Accidental Spillage/Leakage Incident Date: 27th June 1996 Incident Reference: 28985 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	787	4	303500 208500
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Farmers Pool, Cefn Coed Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 15th March 1991 Incident Reference: 137 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	A7SE (SW)	842	4	303750 207250
17	Pollution Incidents to Controlled Waters Property Type: Not Given Location: TREFECHAN Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Inadequate Design/Capacity Incident Date: 11th September 1996 Incident Reference: 30099 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	843	4	303980 208900
18	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewerage Location: 300 Down Stream Of, Cefncoed Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Weather Incident Date: 7th December 1995 Incident Reference: 27031 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leachate Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	866	4	303400 207600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	Registered Radioactive Substances Name: North Glamorgan NHS Trust Location: Prince Charles Hospital, MERTHYR TYDFIL, Mid Glamorgan, CF47 9DT Authority: Natural Resources Wales Permit Reference: AV5144 Dated: 1st May 1996 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Minor variation to a registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A13NE (NE)	287	2	304476 208151
19	Registered Radioactive Substances Name: North Glamorgan Nhs Trust Location: Prince Charles Hospital, MERTHYR TYDFIL, Mid Glamorgan, CF47 9DT Authority: Natural Resources Wales Permit Reference: AG0437 Dated: 31st March 1991 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Unknown	A13NE (NE)	293	2	304476 208161
19	Registered Radioactive Substances Name: East Glamorgan Nhs Trust Location: Prince Charles Hospital, MERTHYR TYDFIL, Mid Glamorgan, CF47 9DT Authority: Natural Resources Wales Permit Reference: AH5132 Dated: 31st March 1991 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation either revoked or cancelled Positional Accuracy: Unknown	A13NE (NE)	294	2	304481 208156
19	Registered Radioactive Substances Name: North Glamorgan Nhs Trust Location: Prince Charles Hospital, MERTHYR TYDFIL, Mid Glamorgan, CF47 9DT Authority: Environment Agency, Welsh Region Permit Reference: AH5159 Dated: 31st March 1991 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Unknown	A13NE (NE)	296	4	304476 208166
19	Registered Radioactive Substances Name: Cwm Taf Local Health Board Location: Prince Charles Hospital, MERTHYR TYDFIL, Mid Glamorgan, CF47 9DT Authority: Natural Resources Wales Permit Reference: CD8872 Dated: 29th September 2009 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Discretionary registration under the Act of an open source which is also the subject of an authorisation Status: Application has been authorised and any conditions apply to the operator Positional Accuracy: Automatically positioned to the address	A13NE (NE)	297	2	304481 208161
19	Registered Radioactive Substances Name: Cwm Taf Local Health Board Location: Prince Charles Hospital, MERTHYR TYDFIL, Mid Glamorgan, CF47 9DT Authority: Natural Resources Wales Permit Reference: CD8864 Dated: 24th September 2009 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Discretionary authorisation under RSA Status: Application has been authorised and any conditions apply to the operator Positional Accuracy: Automatically positioned to the address	A13NE (NE)	297	2	304481 208161

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	Registered Radioactive Substances Name: North Glamorgan Nhs Trust Location: Prince Charles Hospital, MERTHYR TYDFIL, Mid Glamorgan, CF47 9DT Authority: Natural Resources Wales Permit Reference: Bw8666 Dated: 1st December 2003 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation either revoked or cancelled Positional Accuracy: Automatically positioned to the address	A13NE (NE)	297	2	304481 208161
19	Registered Radioactive Substances Name: North Glamorgan Nhs Trust Location: Prince Charles Hospital, MERTHYR TYDFIL, Mid Glamorgan, CF47 9DT Authority: Natural Resources Wales Permit Reference: Bq3878 Dated: 18th March 2002 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Substantial variation to a registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation either revoked or cancelled Positional Accuracy: Automatically positioned to the address	A13NE (NE)	297	2	304481 208161
19	Registered Radioactive Substances Name: North Glamorgan Nhs Trust Location: Prince Charles Hospital, MERTHYR TYDFIL, Mid Glamorgan, CF47 9DT Authority: Natural Resources Wales Permit Reference: AF4976 Dated: 18th March 1993 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Substantial variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Unknown	A13NE (NE)	297	2	304481 208161
19	Registered Radioactive Substances Name: North Glamorgan Nhs Trust Location: Prince Charles Hospital, MERTHYR TYDFIL, Mid Glamorgan, CF47 9DT Authority: Natural Resources Wales Permit Reference: AX8608 Dated: 11th February 1997 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A13NE (NE)	300	2	304491 208151
19	Registered Radioactive Substances Name: North Glamorgan Nhs Trust Location: Prince Charles Hospital, MERTHYR TYDFIL, Mid Glamorgan, CF47 9DT Authority: Natural Resources Wales Permit Reference: AS2718 Dated: 10th August 1995 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Unknown	A13NE (NE)	301	2	304486 208161
19	Registered Radioactive Substances Name: North Glamorgan Nhs Trust Location: Prince Charles Hospital, MERTHYR TYDFIL, Mid Glamorgan, CF47 9DT Authority: Natural Resources Wales Permit Reference: AV5136 Dated: 6th June 1996 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Initial variation to an authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A13NE (NE)	303	2	304491 208156
	River Quality Name: Taf Fechan GQA Grade: River Quality A Reach: Conf.Taff - Conf.Cwm-Moel Estimated Distance (km): 3.1 Flow Rate: Flow less than 1.25 cumecs Flow Type: River Year: 2000	A12NE (W)	421	4	303730 208046

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Name: Taff GQA Grade: River Quality A Reach: Conf.Nant Morlais-Conf.Taff Fechan Estimated Distance (km): 1.4 Flow Rate: Flow less than 5 cumecs Flow Type: River Year: 2000	A7SE (SW)	846	4	303733 207255
	River Quality Name: Taff Fawr GQA Grade: River Quality A Reach: Conf.Taff Fechan-Pant Sychbant Estimated Distance (km): 3.9 Flow Rate: Flow less than 2.5 cumecs Flow Type: River Year: 2000	A7NW (SW)	846	4	303502 207468
20	River Quality Biology Sampling Points Name: Taff Reach: Confluence Nant Morlais To Confluence Taff Fechan Estimated Distance: 1.40 Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Biology GQA Grade B - Good Year: 1995 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2000 GQA Grade: River Quality Biology GQA Grade A - Very 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 B - Good Year: 2005 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2006 GQA Grade: River Quality Biology GQA Grade B - 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	A7SE (SW)	911	4	303700 207200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	River Quality Chemistry Sampling Points Name: Taf Fechan Reach: Confluence River Taff To Confluence Cwm-Moel Estimated Distance: 3.10 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A7NE (SW)	584	4	303736 207595

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	River Quality Chemistry Sampling Points Name: Taf Fechan Reach: Confluence Cwm-Moel To 1.3km Below Overflow Estimated Distance: 2.60 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1993 GQA Grade: Not Supplied Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A7NE (SW)	584	4	303736 207595

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	River Quality Chemistry Sampling Points Name: Taf Fechan Reach: 1.3km Below Reservoir Outfall To Outlet Pontsticill Reservoir Estimated Distance: 1.60 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A7NE (SW)	584	4	303736 207595

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	River Quality Chemistry Sampling Points Name: Taf Fechan Reach: Pontsticill Reservoir Out To Lwr Neuadd Reservoir Out Estimated Distance: 7.10 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: Not Supplied Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A7NE (SW)	584	4	303736 207595

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	River Quality Chemistry Sampling Points Name: Taff Fawr Reach: Confluence Taff Fechan To Pant Sychbant Estimated Distance: 3.90 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A7NW (SW)	936	4	303360 207523

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	River Quality Chemistry Sampling Points Name: Taff Fawr Reach: Pant Sychbant To Llwynon Reservoir Outlet Estimated Distance: 1.70 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A7NW (SW)	936	4	303360 207523

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	River Quality Chemistry Sampling Points Name: Taff Fawr Reach: Llwynon Reservoir Outlet To Confluence Nant Ddu Estimated Distance: 3.50 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: Not Supplied Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A7NW (SW)	936	4	303360 207523

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	River Quality Chemistry Sampling Points Name: Taff Fawr Reach: Confluence Nant Ddu To Upstream Cantref Water Treatment Works Estimated Distance: 1.10 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: Not Supplied Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A7NW (SW)	936	4	303360 207523
23	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 29th August 2018 Incident Reference: 1805569 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants and Effects: Smoke	A18SE (N)	475	2	304216 208549
24	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 15th February 2018 Incident Reference: 1800852 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Inert Materials And Wastes: Soils And Clay	A8SW (S)	937	2	303882 207080

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	Water Abstractions Operator: Balfour Beatty Civil Engineering Limited Licence Number: Wa/057/0021/002 Permit Version: 1 Location: Point A On Taf Fechan Alongside Cyfarthfa Leat Authority: Environment Agency, Welsh Region Abstraction: Industrial/Commercial/Energy/Public Services: Transfer between sources Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 06 June Authorised End: 31 October Permit Start Date: 6th June 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	569	4	303704 207663
26	Water Abstractions Operator: Merthyr Tydfil County Borough Council Licence Number: Wa/057/0021/0011 Permit Version: Not Supplied Location: Cyfarthfa Leat, Cyfarthfa Castle Museum, Cyfarthfa Park, Merthyr Tydfil, Merthyr Tydfil, Cf47 8re Authority: Natural Resources Wales Abstraction: Industrial/Commercial/Energy/Public Services: Transfer between sources Abstraction Type: Water may be abstracted from a single point Source: Surface 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	A17SW (NW)	749	2	303483 208391
	Water Abstractions Operator: P Forker Contractors Limited Licence Number: 21/57/22/0037 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: River Daily Rate (m3): 300 Yearly Rate (m3): 15000 Details: River Taff Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1970	4	304700 206050
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: High	A13SW (E)	0	2	304192 208017

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - Low Vulnerability Classification: Low Combined Vulnerability: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial: <90% Patchiness: 3-10m Superficial Thickness: Low Superficial Recharge: Low	A13SW (S)	0	2	304192 208000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (E)	0	2	304192 208017
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 165.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SW (SW)	257	5	303941 207879
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13NW (NW)	268	5	304045 208317
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SW (SW)	289	5	303979 207766
30	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 3.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13NW (NW)	294	5	304032 208340
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	295	5	304273 207670

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SW (SW)	298	5	303993 207742
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 109.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A8NW (S)	305	5	304179 207653
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 64.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A8NE (S)	308	5	304223 207650
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A8NE (S)	308	5	304223 207650
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SW (NW)	315	5	304029 208362
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 107.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A13SW (SW)	316	5	303966 207742
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SW (SW)	316	5	303966 207742
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 89.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A8NW (S)	318	5	304114 207654
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 57.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	320	5	304264 207643

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SW (SW)	332	5	303943 207742
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	336	5	304244 207624
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SW (SW)	336	5	303939 207740
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	348	5	304204 207610
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	349	5	304205 207609
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	350	5	304204 207608
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SW (SW)	351	5	303920 207739
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SW (SW)	355	5	303916 207738
49	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 4.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A8NW (S)	355	5	304192 207603

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 13.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (S)	359	5	304191 207599
51	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 5.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (S)	359	5	304191 207599
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 81.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	367	5	304249 207593
53	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 13.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	369	5	304208 207588
54	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 4.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (S)	371	5	304195 207587
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SW (SW)	372	5	303896 207735
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SW (SW)	375	5	303893 207734
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 145.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (S)	375	5	304192 207584
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (SE)	377	5	304555 207790

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (SE)	377	5	304556 207790
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 160.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (SE)	379	5	304556 207787
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 163.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SW (SW)	389	5	303876 207732
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 160.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SW (SW)	396	5	303884 207712
63	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 26.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	407	5	304271 207556
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	422	5	304303 207547
65	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 28.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	426	5	304243 207533
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	428	5	304289 207537
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	433	5	304292 207533

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	437	5	304278 207526
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	441	5	304280 207523
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	447	5	304264 207514
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 177.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	452	5	304268 207510
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9NW (SE)	488	5	304592 207650
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (S)	499	5	304123 207466
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (SW)	524	5	303869 207552
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 0.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (SW)	529	5	303864 207551
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (SW)	529	5	303864 207551

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 72.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (SW)	529	5	303863 207551
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 113.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (SW)	529	5	303865 207549
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (S)	531	5	304102 207437
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 735.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (SW)	533	5	303695 207754
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SE (N)	535	5	304258 208605
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SW (N)	535	5	304150 208612
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 132.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SW (N)	535	5	304128 208611
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SW (N)	535	5	304187 208611
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 463.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SW (N)	535	5	304189 208612

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 146.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (SW)	536	5	303957 207485
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SE (N)	537	5	304269 208604
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SE (N)	540	5	304339 208587
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9NW (SE)	541	5	304622 207603
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SE (N)	545	5	304326 208599
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SE (N)	546	5	304326 208599
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NE (SW)	547	5	303740 207649
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NE (SW)	547	5	303759 207626
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NE (SW)	548	5	303721 207675

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NE (SW)	548	5	303721 207675
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 285.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	549	5	304406 207446
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (SW)	554	5	303680 207738
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SE (N)	555	5	304338 208604
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (SW)	555	5	303671 207754
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (SW)	556	5	303670 207752
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (SW)	556	5	303670 207754
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 105.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SE (N)	559	5	304344 208607
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 405.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9NW (SE)	564	5	304628 207577

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 84.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (SW)	565	5	303656 207765
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Taf Fechan Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NE (SW)	569	5	303695 207677
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 250.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Taf Fechan Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NE (SW)	570	5	303702 207663
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (S)	571	5	304079 207402
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 79.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SW (N)	574	5	304000 208627
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Taf Fechan Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (SW)	578	5	303662 207719
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 577.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Taf Fechan Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (SW)	588	5	303640 207743
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (S)	596	5	304064 207380
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 402.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Taf Fechan Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SE (NW)	597	5	303777 208531

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (S)	601	5	304060 207376
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SW (N)	634	5	303933 208667
115	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 9.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SE (N)	636	5	304440 208650
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 83.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SE (N)	641	5	304450 208651
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Taf Fechan Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SW (N)	641	5	303923 208671
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 117.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SE (NE)	680	5	304533 208649
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Taf Fechan Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SE (NW)	682	5	303607 208471
120	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SE (NW)	682	5	303607 208471
121	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Taf Fechan Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A7NE (SW)	686	5	303768 207425

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
122	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 56.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Taf Fechan Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NE (SW)	686	5	303768 207425
123	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18NW (N)	693	5	303959 208739
124	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 446.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Taf Fechan Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18NW (N)	693	5	303959 208739
125	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 176.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Taf Fechan Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SE (NW)	694	5	303589 208466
126	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SE (NW)	694	5	303589 208466
127	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 76.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Taf Fechan Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NE (SW)	721	5	303782 207373
128	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Taf Fechan Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A7SE (SW)	767	5	303804 207306
129	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Taf Fechan Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7SE (SW)	767	5	303804 207306
130	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 159.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Taf Fechan Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SW (NW)	768	5	303451 208366

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
131	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SW (NW)	768	5	303451 208366
132	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 79.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SW (NW)	771	5	303450 208370
133	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 378.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A19NW (NE)	775	5	304614 208711
134	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12NW (W)	800	5	303376 208232
135	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 74.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NE (E)	805	5	305021 208162
136	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 165.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NE (E)	805	5	305021 208162
137	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 109.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Taf Fechan Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7SE (SW)	805	5	303789 207271
138	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NE (SW)	825	5	303567 207423
139	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 438.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SE (S)	828	5	304517 207190

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
140	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 200.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NE (E)	841	5	305066 208116
141	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SW (NW)	841	5	303401 208433
142	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 63.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SW (NW)	862	5	303387 208451
143	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 163.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Taf Fawr Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	882	5	303479 207439
144	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NE (SW)	883	5	303527 207381
145	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 280.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Taf Fawr Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NE (SW)	888	5	303524 207376
146	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 356.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SE (E)	889	5	305068 207686
147	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9NE (E)	895	5	305066 207663
148	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 191.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9NE (SE)	897	5	305065 207653

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
149	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 137.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NE (E)	901	5	305075 208319
150	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7SE (SW)	909	5	303711 207195
151	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	911	5	303395 207513
152	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SW (NW)	923	5	303341 208495
153	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 175.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SW (NW)	923	5	303341 208495
154	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Taf Fawr Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	924	5	303379 207514
155	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 122.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Taf Fawr Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	924	5	303379 207514
156	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	929	5	303401 207468
157	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 17.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18NE (N)	930	5	304532 208932

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
158	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18NE (N)	931	5	304523 208935
159	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 57.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A19NW (N)	932	5	304540 208929
160	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 202.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7SE (SW)	934	5	303753 207143
161	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 95.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7SE (SW)	934	5	303753 207143
162	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A19NW (NE)	942	5	304595 208914
163	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 226.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9SW (SE)	946	5	304867 207276
164	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 277.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7SE (SW)	961	5	303652 207172
165	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	963	5	303433 207367
166	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7SW (SW)	967	5	303455 207335

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
167	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 383.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SW (NW)	974	5	303299 208525
168	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 118.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SW (S)	980	5	303954 207011
169	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 117.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A19SE (NE)	981	5	304984 208635
170	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SW (S)	981	5	303953 207011
171	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A3NW (S)	981	5	304130 206980
172	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 86.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SW (W)	988	5	303228 208399
173	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SW (S)	993	5	303901 207014
174	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SW (S)	996	5	303893 207013
175	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9NE (SE)	997	5	305089 207476

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
176	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9NE (SE)	997	5	305089 207476

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
177	Licensed Waste Management Facilities (Locations) Licence Number: 30170 Location: Prince Charles Hospital, Gurnos Estate, Merthyr Tydfil, Glamorgan, CF47 9DT Operator Name: North Glamorgan N H S Trust Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Clinical Waste Transfer Stations Licence Status: Surrendered Issued: 18th October 1995 Last Modified: 22nd March 2002 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 15th January 2004 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	394	2	304520 208273
	Local Authority Landfill Coverage Name: Merthyr Tydfil County Borough Council - Has supplied landfill data		0	3	304192 208017
178	Local Authority Recorded Landfill Sites Location: Galon Uchaf Reference: 120 Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Last Reported Status: Closed Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A14SE (E)	994	3	305181 207692
179	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A12NW (W)	932	-	303262 208320
180	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A17SW (NW)	971	-	303347 208603
181	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A15SW (E)	998	-	305223 207857
182	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A13NW (W)	193	-	303971 208022
183	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A13SW (W)	254	-	303906 208017
184	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A13SE (SE)	266	-	304383 207757
185	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A14NW (E)	332	-	304559 208066
186	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A14SW (E)	426	-	304659 208005
187	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A9NW (SE)	445	-	304560 207678
188	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A14NW (NE)	457	-	304557 208332
189	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A9NW (SE)	607	-	304652 207540
190	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A14NW (NE)	632	-	304789 208297

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
191	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A19SW (NE)	667	-	304583 208601
192	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A14NW (E)	678	-	304850 208281
193	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A9NE (SE)	798	-	304938 207613
194	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A14NE (NE)	819	-	304974 208347
195	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A14SE (E)	878	-	305111 208009
196	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A19SE (NE)	911	-	304991 208502
197	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A9SW (SE)	928	-	304862 207296
198	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1891	A19SE (NE)	977	-	304952 208672
199	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A9NE (SE)	992	-	305085 207477
200	Registered Waste Transfer Sites Licence Holder: North Glamorgan Nhs Trust Licence Reference: 950134 Site Location: Prince Charles Hospital, Gurnos Estate, MERTHYR TYDFIL, Mid Glamorgan, CF47 9DT Operator Location: Prince Charles Hospital, Gurnos Estate, MERTHYR TYDFIL, Mid Glamorgan, CF47 9DT Authority: Environment Agency Wales, South East Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 18th October 1995 Preceded By: 910123 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Clinical Wastes Prohibited Waste: Max.Storage In Licence Waste N.O.S.	A13NE (NE)	295	4	304480 208160
201	Registered Waste Treatment or Disposal Sites Licence Holder: Mid Glamorgan Health Authority Licence Reference: 910123 Site Location: Prince Charles Hospital, Gurnos Estate, MERTHYR TYDFIL, Mid Glamorgan, CF47 9DT Operator Location: St Tydfils Hospital, Merthyr Tydfil, Mid Glamorgan Authority: Environment Agency Wales, South East Area Site Category: Incineration Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Licence Status: Site exempt from licenceExempt Dated: 1st November 1993 Preceded By: Not Given Licence: Superseded By: 950134 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Clinical Wastes	A13NE (NE)	335	4	304500 208200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Millstone Grit Group [See Also Migr]	A13SW (E)	0	1	304192 208017
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 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 (E)	0	1	304192 208017
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 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	A13NW (NW)	32	1	304145 208103
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	199	1	304333 207802
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 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	A13NW (W)	237	1	303907 208031
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment 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	A17SE (NW)	473	1	303807 208389
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 45 - 60 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (NW)	479	1	303867 208453

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: Sediment Arsenic 45 - 60 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:	A7NE (SW)	522	1	303825 207592
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A8NW (S)	574	1	304189 207384
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment 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:	A7NE (SW)	583	1	303744 207588
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 45 - 60 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:	A12SE (SW)	583	1	303670 207691
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment 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:	A19SW (NE)	671	1	304799 208359
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 45 - 60 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A17SE (NW)	694	1	303761 208642

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: Sediment Arsenic 35 - 45 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:	A12SW (W)	722	1	303440 208000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 45 - 60 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NW (N)	723	1	304136 208799
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 35 - 45 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:	A19SW (NE)	804	1	304708 208676
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment 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:	A9NE (SE)	835	1	304995 207647
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A14SE (E)	867	1	305063 207740
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 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:	A7NW (SW)	892	1	303429 207494

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: Sediment Arsenic 35 - 45 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:	A7NW (SW)	897	1	303394 207543
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 45 - 60 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:	A7NW (SW)	918	1	303374 207535
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment 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:	A12NW (W)	941	1	303223 208161
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 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:	A12SW (W)	949	1	303273 207694
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A3NW (S)	976	1	304152 206983
202	BGS Recorded Mineral Sites Site Name: Cynros Quarry Location: Cefn-Coed-Y-Cymmer, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125601 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Dowlais Limestone Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A12NW (W)	730	1	303441 208199

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
203	BGS Recorded Mineral Sites Site Name: Carn-Gwilym-Goch Location: Cefn-Coed-Y-Cymmer, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125599 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Twrch Sandstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	918	1	303380 208555
204	BGS Recorded Mineral Sites Site Name: Cefn Hotel Location: Cefn-Coed-Y-Cymmer, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125593 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Twrch Sandstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12NW (W)	929	1	303265 208319
205	BGS Recorded Mineral Sites Site Name: Vaynor House Location: Cefn-Coed-Y-Cymmer, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125596 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Twrch Sandstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	980	1	303338 208604
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SW (S)	0	6	304192 208000
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (E)	0	-	304192 208017
	Natural Cavities Easting: 304160 Northing: 208080 Distance: 4 Quadrant Reference: A13 Quadrant Reference: NW Bearing Ref: NW Cavity Type: Phreatic Cave, Sinkhole, Solution Pipe, Solution Widened Joint or Fissure, Swallow Hole Solid Geology Detail: Carboniferous Limestone Supergroup, Lower Carboniferous Limestone, Millstone Grit Group, Upper Carboniferous Limestone Superficial Geology Detail: Glacial sand	A13NW (NW)	4	7	304160 208080
	Natural Cavities Easting: 303650 Northing: 208330 Distance: 572 Quadrant Reference: A12 Quadrant Reference: NE Bearing Ref: NW Cavity Type: Vadose Cave Solid Geology Detail: Carboniferous Limestone Supergroup, Lower Carboniferous Limestone, Upper Carboniferous Limestone Superficial Geology Detail: No Details	A12NE (NW)	572	7	303650 208330

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 303620 Northing: 208450 Distance: 660 Quadrant Reference: A17 Quadrant Reference: SE Bearing Ref: NW Cavity Type: Vadose Cave Solid Geology Detail: Carboniferous Limestone Supergroup, Lower Carboniferous Limestone, Upper Carboniferous Limestone Superficial Geology Detail: No Details	A17SE (NW)	660	7	303620 208450
	Natural Cavities Easting: 303600 Northing: 208500 Distance: 705 Quadrant Reference: A17 Quadrant Reference: SE Bearing Ref: NW Cavity Type: Vadose Cave Solid Geology Detail: Carboniferous Limestone Supergroup, Lower Carboniferous Limestone, Upper Carboniferous Limestone Superficial Geology Detail: No Details	A17SE (NW)	705	7	303600 208500
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	304192 208017
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	199	1	304333 207802
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	304192 208017
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	304192 208017
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	304192 208017
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	304192 208017
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	32	1	304145 208103
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	111	1	304353 207980
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	156	1	304137 208231
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	304192 208017
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	111	1	304353 207979
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	304192 208017
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	111	1	304353 207979
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (5 to 10% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	304192 208017

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - Radon Protection Measures Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	304192 208017

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
206	Contemporary Trade Directory Entries Name: Baxter Healthcare Ltd Location: Prince Charles Hospital, Merthyr Tydfil, Mid Glamorgan, CF47 9DT Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	297	-	304481 208161
206	Contemporary Trade Directory Entries Name: C W M Taf University Heath Board Location: Prince Charles Hospital, Merthyr Tydfil, CF47 9DT Classification: Hospitals Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	299	-	304465 208186
207	Contemporary Trade Directory Entries Name: Stephen Patrick Hall Location: 45, Lakeside Gardens, MERTHYR TYDFIL, Mid Glamorgan, CF48 1EN Classification: Safety Glazing Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	446	-	303747 207864
208	Contemporary Trade Directory Entries Name: Top 2 Bottom Cleaning Location: 93, Lakeside Gardens, Merthyr Tydfil, Mid Glamorgan, CF48 1EW Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	640	-	303520 208043
209	Contemporary Trade Directory Entries Name: B R Motors Location: Aartal Bungalow, Brecon Road, Merthyr Tydfil, CF47 8RB Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	761	-	303858 207283
209	Contemporary Trade Directory Entries Name: Cambria Granite Ltd Location: Unit 8-9, E F I Industrial Estate, Brecon Road, Merthyr Tydfil, CF47 8RB Classification: Kitchen Furniture Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	803	-	303844 207242
209	Contemporary Trade Directory Entries Name: D Rees Location: Unit 12, E F I Industrial Estate, Brecon Road, Merthyr Tydfil, Mid Glamorgan, CF47 8RB Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	803	-	303845 207243
210	Contemporary Trade Directory Entries Name: Recover U Location: 20, Cyfarthfa Gardens, Cefn Coed, Merthyr Tydfil, Mid Glamorgan, CF48 2SE Classification: Car Breakdown & Recovery Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	765	-	303599 207477
210	Contemporary Trade Directory Entries Name: T M Few & Sons Location: Maesgwynne Industrial Estate, Cefn Coed, Merthyr Tydfil, CF48 2SD Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	812	-	303571 207437
211	Contemporary Trade Directory Entries Name: Central Garage Location: 156, High Street, Cefn Coed, Merthyr Tydfil, CF48 2PH Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	778	-	303412 207834
212	Contemporary Trade Directory Entries Name: Bil-D-Aid Location: 45, Sycamore Road, Merthyr Tydfil, Mid Glamorgan, CF47 9RU Classification: Damp & Dry Rot Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	827	-	305051 207863

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
213	Contemporary Trade Directory Entries Name: Functional Foam Location: Unit 10 E F I Industrial Estate, Brecon Road, Merthyr Tydfil, Mid Glamorgan, CF47 8RB Classification: Foam Products - Rubber & Plastics Status: Active Positional Accuracy: Manually positioned within the geographical locality	A7SE (SW)	838	-	303835 207208
213	Contemporary Trade Directory Entries Name: Auto Dor Location: Unit 3c, E F I Industrial Estate, Brecon Road, Merthyr Tydfil, CF47 8RB Classification: Gate Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	847	-	303834 207198
213	Contemporary Trade Directory Entries Name: Merthyr Reclamation Location: E F I Industrial Estate, Brecon Road, Merthyr Tydfil, Mid Glamorgan, CF47 8RB Classification: Salvage Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	851	-	303834 207194
213	Contemporary Trade Directory Entries Name: D P Haulage Location: Unit 2, E F I Industrial Estate, Brecon Road, Merthyr Tydfil, CF47 8RB Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A7SE (S)	853	-	303848 207185
213	Contemporary Trade Directory Entries Name: I J F Engineering Services Location: Unit 5, E F I Industrial Estate, Brecon Road, Merthyr Tydfil, Mid Glamorgan, CF47 8RB Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	875	-	303815 207177
214	Contemporary Trade Directory Entries Name: Beacons Park Natural Burial Ground Location: 141, High Street, Cefn Coed, Merthyr Tydfil, CF48 2PL Classification: Cemeteries & Crematoria Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	859	-	303321 207876
215	Contemporary Trade Directory Entries Name: W R Jones Location: 18, Park Row Gardens, Merthyr Tydfil, Mid Glamorgan, CF47 8TG Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	943	-	304617 207108
216	Points of Interest - Commercial Services Name: Central Garage Location: 156 High Street, Cefn Coed, Merthyr Tydfil, CF48 2PH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	777	8	303413 207834
216	Points of Interest - Commercial Services Name: Central Garage Location: 156 High Street, Cefn Coed, Merthyr Tydfil, CF48 2PH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	778	8	303412 207834
217	Points of Interest - Commercial Services Name: T M Few Location: Maesgwynne Industrial Estate, Cefn Coed, Merthyr Tydfil, CF48 2SD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	811	8	303572 207438
217	Points of Interest - Commercial Services Name: T M Few & Sons Location: Maesgwynne Industrial Estate, Cefn Coed, Merthyr Tydfil, CF48 2SD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	812	8	303571 207437

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
218	Points of Interest - Commercial Services Name: Merthyr Reclamation Location: E F I Industrial Estate, Brecon Road, Merthyr Tydfil, CF47 8RB Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A7SE (SW)	851	8	303834 207194
218	Points of Interest - Commercial Services Name: D P Haulage Location: Unit 2 E F I Industrial Estate, Brecon Road, Merthyr Tydfil, CF47 8RB Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7SE (S)	852	8	303848 207186
218	Points of Interest - Commercial Services Name: D P Haulage Location: Unit 2 E F I Industrial Estate, Brecon Road, Merthyr Tydfil, CF47 8RB Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7SE (S)	853	8	303848 207185
219	Points of Interest - Education and Health Name: Prince Charles Hospital Location: Prince Charles Hospital, Merthyr Tydfil, CF47 9DT Category: Health Practitioners and Establishments Class Code: Accident & Emergency Department Positional Accuracy: Positioned to address or location	A13NE (NE)	291	8	304438 208211
219	Points of Interest - Education and Health Name: Prince Charles Hospital Location: Prince Charles Hospital, Merthyr Tydfil, CF47 9DT Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A13NE (NE)	296	8	304481 208160
219	Points of Interest - Education and Health Name: Prince Charles Hospital Location: Prince Charles Hospital, Merthyr Tydfil, CF47 9DT Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A13NE (NE)	297	8	304481 208161
219	Points of Interest - Education and Health Name: Prince Charles Hospital Location: Prince Charles Hospital, Merthyr Tydfil, CF47 9DT Category: Health Practitioners and Establishments Class Code: Accident & Emergency Department Positional Accuracy: Positioned to address or location	A13NE (NE)	297	8	304481 208161
219	Points of Interest - Education and Health Name: Prince Charles Hospital Location: Prince Charles Hospital, Merthyr Tydfil, CF47 9DT Category: Health Practitioners and Establishments Class Code: Accident & Emergency Department Positional Accuracy: Positioned to address or location	A13NE (NE)	297	8	304481 208161
219	Points of Interest - Education and Health Name: Prince Charles Hospital Location: Prince Charles Hospital, Merthyr Tydfil, CF47 9DT Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A13NE (NE)	297	8	304481 208161
220	Points of Interest - Manufacturing and Production Name: Tank Location: CF47 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	387	8	304523 208255
220	Points of Interest - Manufacturing and Production Name: Tank Location: CF47 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	392	8	304529 208255
220	Points of Interest - Manufacturing and Production Name: Tank Location: CF47 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	397	8	304530 208262

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
221	Points of Interest - Manufacturing and Production Name: Gurnos Farm Location: Merthyr Tydfil, CF48 2SH Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A18SE (N)	564	8	304336 208614
222	Points of Interest - Manufacturing and Production Name: Vale of Neath Stone Supplies Ltd Location: 97 Lakeside Gardens, Merthyr Tydfil, CF48 1EW Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A12NW (W)	679	8	303481 208037
223	Points of Interest - Manufacturing and Production Name: Merthyr Marble & Granite Ltd Location: Unit 8-9 E F I Industrial Estate, Brecon Road, Merthyr Tydfil, CF47 8RB Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A7SE (SW)	803	8	303845 207243
223	Points of Interest - Manufacturing and Production Name: Cambria Granite Ltd Location: Unit 8-9 E F I Industrial Estate, Brecon Road, Merthyr Tydfil, CF47 8RB Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A7SE (SW)	803	8	303844 207242
223	Points of Interest - Manufacturing and Production Name: Factory Location: CF47 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A7SE (SW)	805	8	303840 207242
223	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	810	8	303833 207240
223	Points of Interest - Manufacturing and Production Name: E F I Industrial Estate Location: CF47 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	825	8	303855 207212
223	Points of Interest - Manufacturing and Production Name: E F I Industrial Estate Location: CF47 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	832	8	303836 207214
224	Points of Interest - Public Infrastructure Name: Gurnos Police Station Location: Police Station, Gurnos, Merthyr Tydfil, CF47 9ED Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A18SE (N)	506	8	304378 208535
225	Points of Interest - Public Infrastructure Name: Sluice Location: CF48 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12SE (SW)	547	8	303717 207684
225	Points of Interest - Public Infrastructure Name: Sluice Location: CF48 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12SE (SW)	548	8	303718 207680
226	Points of Interest - Public Infrastructure Name: Weir Location: CF48 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	595	8	303766 208520

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
227	Points of Interest - Public Infrastructure Name: Outfall Location: CF48 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	652	8	303742 207492
228	Points of Interest - Public Infrastructure Name: Outfall Location: CF48 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	693	8	303947 208735
228	Points of Interest - Public Infrastructure Name: Outfall Location: CF48 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	695	8	303952 208739
229	Points of Interest - Public Infrastructure Name: Weir Location: CF48 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	722	8	303778 207375
229	Points of Interest - Public Infrastructure Name: Weir Location: CF48 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	725	8	303775 207373
230	Points of Interest - Public Infrastructure Name: Sluice Location: CF48 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	743	8	303491 208394
230	Points of Interest - Public Infrastructure Name: Sluice Location: CF48 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	747	8	303486 208392
230	Points of Interest - Public Infrastructure Name: Weir Location: CF48 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	762	8	303472 208398
230	Points of Interest - Public Infrastructure Name: Weir Location: CF48 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	765	8	303468 208397
231	Points of Interest - Public Infrastructure Name: Sluice Location: CF47 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	749	8	303907 207272
232	Points of Interest - Public Infrastructure Name: Refuse Tip Location: CF48 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	855	8	303535 207413
232	Points of Interest - Public Infrastructure Name: Refuse Tip Location: CF48 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	860	8	303529 207412

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
233	Points of Interest - Public Infrastructure Name: Beacons Park Natural Burial Ground Location: 141 High Street, Cefn Coed, Merthyr Tydfil, CF48 2PL Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to address or location	A12SW (W)	860	8	303321 207876
234	Points of Interest - Public Infrastructure Name: Weir Location: CF47 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A9NE (E)	897	8	305068 207662
234	Points of Interest - Public Infrastructure Name: Weir Location: CF47 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A9NE (E)	899	8	305071 207663
235	Points of Interest - Public Infrastructure Name: Cemetery Location: CF48 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	985	8	303199 207846
236	Points of Interest - Recreational and Environmental Name: Playground Location: Honeysuckle Close, CF47 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13NW (W)	44	8	304140 208025
237	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NW (N)	136	8	304187 208211
238	Points of Interest - Recreational and Environmental Name: Play Area Location: CF47 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	415	8	304511 208322
239	Points of Interest - Recreational and Environmental Name: Playground Location: Cedar Way, CF47 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A9NW (SE)	613	8	304636 207516
239	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	615	8	304637 207515
240	Points of Interest - Recreational and Environmental Name: Play Area Location: CF47 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	619	8	304268 207342
241	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	742	8	303438 207895
241	Points of Interest - Recreational and Environmental Name: Playground Location: Well Street, CF48 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	748	8	303432 207894

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
242	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	791	8	303370 208119
242	Points of Interest - Recreational and Environmental Name: Playground Location: Heads Of The Valleys Road, CF48 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	801	8	303360 208118
243	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	802	8	304068 207168
243	Points of Interest - Recreational and Environmental Name: Playground Location: Nr Brecon Road, CF47 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A8SW (S)	804	8	304065 207167
244	Points of Interest - Recreational and Environmental Name: Play Area Location: CF47 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	823	8	305048 208116
245	Points of Interest - Recreational and Environmental Name: Playground Location: Nr Gwaelodygarth Road, CF47 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A8SE (S)	842	8	304361 207130
245	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	843	8	304362 207129
246	Points of Interest - Recreational and Environmental Name: Play Area Location: CF48 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	850	8	303714 208798
247	Points of Interest - Recreational and Environmental Name: Playground Location: Cherry Grove, CF47 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A14SE (E)	879	8	305097 207827
247	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	894	8	305110 207817

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
248	Ancient Woodland Name: Not Supplied Reference: 21419 Area(m ²): 137845.16 Type: Restored Ancient Woodland Site	A13SW (SW)	239	2	303967 207863
249	Ancient Woodland Name: Not Supplied Reference: 21423 Area(m ²): 7658.12 Type: Restored Ancient Woodland Site	A13NW (NW)	250	2	304060 208305
250	Ancient Woodland Name: Not Supplied Reference: 21420 Area(m ²): 20552.54 Type: Restored Ancient Woodland Site	A13SW (W)	313	2	303865 207939
251	Ancient Woodland Name: Not Supplied Reference: 12365 Area(m ²): 8854.39 Type: Ancient and Semi-Natural Woodland	A13SE (SE)	319	2	304481 207783
252	Ancient Woodland Name: Not Supplied Reference: 50254 Area(m ²): 42173.49 Type: Ancient Woodland Site of Unknown Category	A17SE (NW)	509	2	303840 208470
253	Ancient Woodland Name: Not Supplied Reference: 21421 Area(m ²): 22938.04 Type: Restored Ancient Woodland Site	A12SE (SW)	522	2	303704 207760
254	Ancient Woodland Name: Not Supplied Reference: 10350 Area(m ²): 101785.2 Type: Restored Ancient Woodland Site	A17SE (NW)	540	2	303792 208468
255	Ancient Woodland Name: Not Supplied Reference: 21422 Area(m ²): 3978.81 Type: Restored Ancient Woodland Site	A17SE (NW)	549	2	303696 208364
256	Ancient Woodland Name: Not Supplied Reference: 14081 Area(m ²): 8661.29 Type: Ancient and Semi-Natural Woodland	A17SE (NW)	617	2	303717 208502
257	Ancient Woodland Name: Not Supplied Reference: 12366 Area(m ²): 3155.77 Type: Ancient and Semi-Natural Woodland	A12SW (W)	672	2	303507 207904
258	Ancient Woodland Name: Not Supplied Reference: 8887 Area(m ²): 2726.91 Type: Ancient and Semi-Natural Woodland	A17SE (NW)	682	2	303617 208484
259	Ancient Woodland Name: Not Supplied Reference: 12372 Area(m ²): 27103.72 Type: Ancient and Semi-Natural Woodland	A19SW (NE)	708	2	304585 208649
260	Ancient Woodland Name: Not Supplied Reference: 7353 Area(m ²): 11965.44 Type: Ancient and Semi-Natural Woodland	A18NW (NW)	737	2	303860 208748
261	Local Nature Reserves Name: Cwm Taf Fechan Woodlands Multiple Area: N Area (m2): 413248.27 Source: Merthyr Tydfil County Borough Council Designation Date: 31st December 1975	A12SE (SW)	508	9	303697 207754

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
262	Sites of Special Scientific Interest Name: Cwm Taf Fechan Woodlands Multiple Areas: Y Total Area (m2): 641319.9 Source: Natural Resources Wales Reference: 40433wmc Designation Details: Biological Designation Date: 1st January 1972 Date Type: Notified	A12SE (SW)	508	2	303688 207777

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Caerphilly County Borough Council - Environmental Health Department Merthyr Tydfil County Borough Council - Environmental Health Department Powys County Council - Public Protection Department Natural Resources Wales Rhondda Cynon Taff County Borough Council - Environmental Services	August 2013 February 2013 February 2015 June 2020 October 2017	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annually Annual Rolling Update
Discharge Consents Environment Agency - Welsh Region Natural Resources Wales	August 2014 July 2020	Quarterly Quarterly
Enforcement and Prohibition Notices Environment Agency - Welsh Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - Welsh Region	October 2008	Variable
Integrated Pollution Prevention And Control Natural Resources Wales Environment Agency - Welsh Region	July 2020 October 2020	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Caerphilly County Borough Council - Environmental Health Department Powys County Council - Public Protection Department Rhondda Cynon Taff County Borough Council - Public Health and Protection Division Merthyr Tydfil County Borough Council - Environmental Health Department	February 2013 May 2014 September 2014 September 2016	Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls Powys County Council - Public Protection Department Rhondda Cynon Taff County Borough Council - Public Health and Protection Division Caerphilly County Borough Council - Environmental Health Department Merthyr Tydfil County Borough Council - Environmental Health Department	May 2014 September 2014 September 2014 September 2016	Annual Rolling Update Annual Rolling Update Not Applicable Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Powys County Council - Public Protection Department Caerphilly County Borough Council - Environmental Health Department Rhondda Cynon Taff County Borough Council - Public Health and Protection Division Merthyr Tydfil County Borough Council - Environmental Health Department	May 2014 September 2014 September 2014 September 2016	Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	September 2020	
Pollution Incidents to Controlled Waters Environment Agency - Welsh Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	Annual Rolling Update Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	Annual Rolling Update Annual Rolling Update
Registered Radioactive Substances Natural Resources Wales Environment Agency - Welsh Region	January 2015 June 2016	Annually
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Natural Resources Wales Environment Agency Wales - South East Area	July 2020 October 2020	Quarterly Quarterly

Agency & Hydrological	Version	Update Cycle
Water Abstractions Natural Resources Wales Environment Agency - Welsh Region	July 2020 October 2020	Quarterly Quarterly
Water Industry Act Referrals Natural Resources Wales Environment Agency - Welsh Region	July 2020 October 2017	Quarterly Quarterly
Groundwater Vulnerability Map Natural Resources Wales	June 2018	As notified
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	August 2018	Quarterly
Flooding from Rivers or Sea without Defences Natural Resources Wales	September 2020	Quarterly
Areas Benefiting from Flood Defences Natural Resources Wales	November 2019	Quarterly
Flood Water Storage Areas Natural Resources Wales	August 2019	Quarterly
Flood Defences Natural Resources Wales	November 2019	Quarterly
OS Water Network Lines Ordnance Survey	June 2020	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 - Welsh Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency Wales - South East Area Natural Resources Wales	October 2020 October 2020	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Natural Resources Wales Environment Agency Wales - South East Area	July 2020 October 2020	Quarterly Quarterly
Local Authority Landfill Coverage Caerphilly County Borough Council - Environmental Health Department Merthyr Tydfil County Borough Council - Environmental Health Department Powys County Council Rhondda Cynon Taff County Borough Council	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Caerphilly County Borough Council - Environmental Health Department Merthyr Tydfil County Borough Council - Environmental Health Department Powys County Council Rhondda Cynon Taff County Borough Council	May 2000 May 2000 May 2000 May 2000	Not Applicable 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 Wales - South East Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - South East Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South East Area	March 2003	Not Applicable
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Brecon Beacons National Park Caerphilly County Borough Council - Planning Department Powys County Council - Planning Department Rhondda Cynon Taff County Borough Council - Planning Department Merthyr Tydfil County Borough Council - Planning Department	August 2008 February 2016 February 2016 February 2016 September 2007	Annual Rolling Update Variable Variable Variable Variable
Planning Hazardous Substance Consents Brecon Beacons National Park Caerphilly County Borough Council - Planning Department Powys County Council - Planning Department Rhondda Cynon Taff County Borough Council - Planning Department Merthyr Tydfil County Borough Council - Planning Department	August 2008 February 2016 February 2016 February 2016 September 2007	Annual Rolling Update Variable Variable Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2020	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	April 2020	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	October 2020	Quarterly
Fuel Station Entries Catalist Ltd - Experian	September 2020	Quarterly
Gas Pipelines National Grid	September 2020	
Points of Interest - Commercial Services PointX	September 2020	Quarterly
Points of Interest - Education and Health PointX	September 2020	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2020	Quarterly
Points of Interest - Public Infrastructure PointX	September 2020	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2020	Quarterly
Underground Electrical Cables National Grid	August 2020	

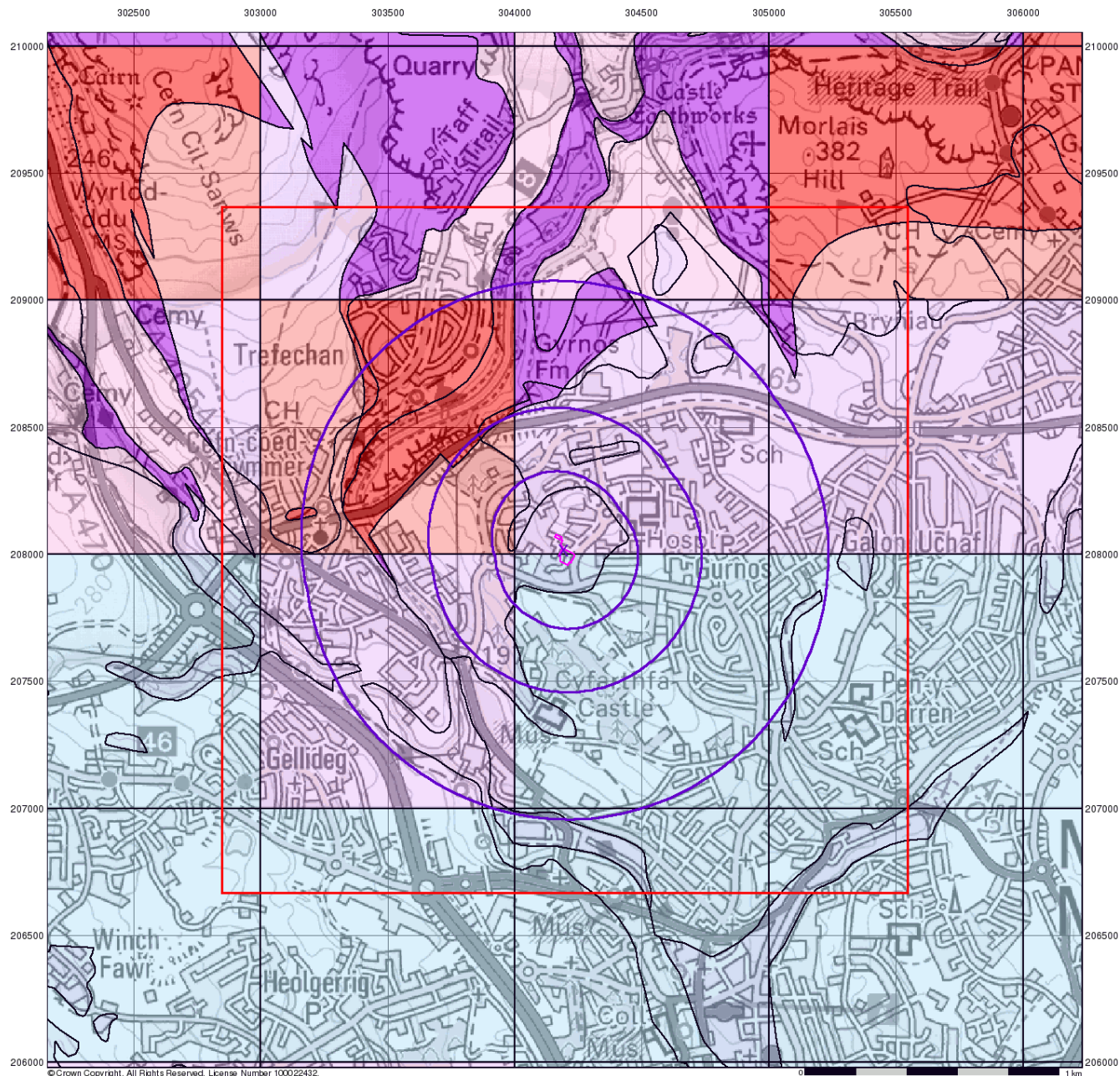
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	August 2018	Bi-Annually
Areas of Adopted Green Belt Brecon Beacons National Park Caerphilly County Borough Council Merthyr Tydfil County Borough Council Powys County Council Rhondda Cynon Taff County Borough Council	June 2020 June 2020 June 2020 June 2020 June 2020	As notified As notified As notified As notified As notified
Areas of Unadopted Green Belt Brecon Beacons National Park Caerphilly County Borough Council Merthyr Tydfil County Borough Council Powys County Council Rhondda Cynon Taff County Borough Council	June 2020 June 2020 June 2020 June 2020 June 2020	As notified As notified As notified As notified As notified
Areas of Outstanding Natural Beauty Natural Resources Wales	June 2019	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Caerphilly County Borough Council Merthyr Tydfil County Borough Council Powys County Council Rhondda Cynon Taff County Borough Council	August 2018 August 2018 August 2018 August 2018	Bi-Annually Bi-Annually 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 Resources Wales	August 2018	Annually
Nitrate Vulnerable Zones Natural Resources Wales The National Assembly for Wales - GI Services (Department of Planning & Countryside)	July 2019 October 2005	Bi-Annually
Ramsar Sites Natural Resources Wales	July 2019	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	March 2020	Bi-Annually
Special Areas of Conservation Natural Resources Wales	August 2020	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	
Stantec UK Ltd	

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	Merthyr Tydfil County Borough Council - Environmental Health Department Civic Centre, Castle Street, Merthyr Tydfil, Mid Glamorgan, CF47 8AN	Telephone: 01685 725000 Fax: 01685 725024 Website: www.merthyr.gov.uk
4	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
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	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
7	Stantec UK Ltd Caversham Bridge House, Waterman Place, Reading, RG1 8DN	Telephone: 0118 950 0761 Email: pba.reading@stantec.com Website: www.stantec.com
8	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	Merthyr Tydfil County Borough Council Civic Centre, Castle Street, Merthyr Tydfil, Mid Glamorgan, CF47 8AN	Telephone: 01685 725000 Fax: 01685 722146 Website: www.merthyr.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



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Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

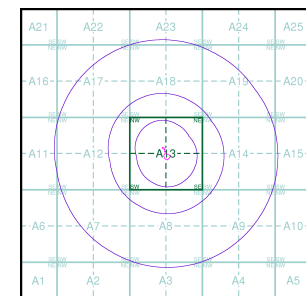
Superficial Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

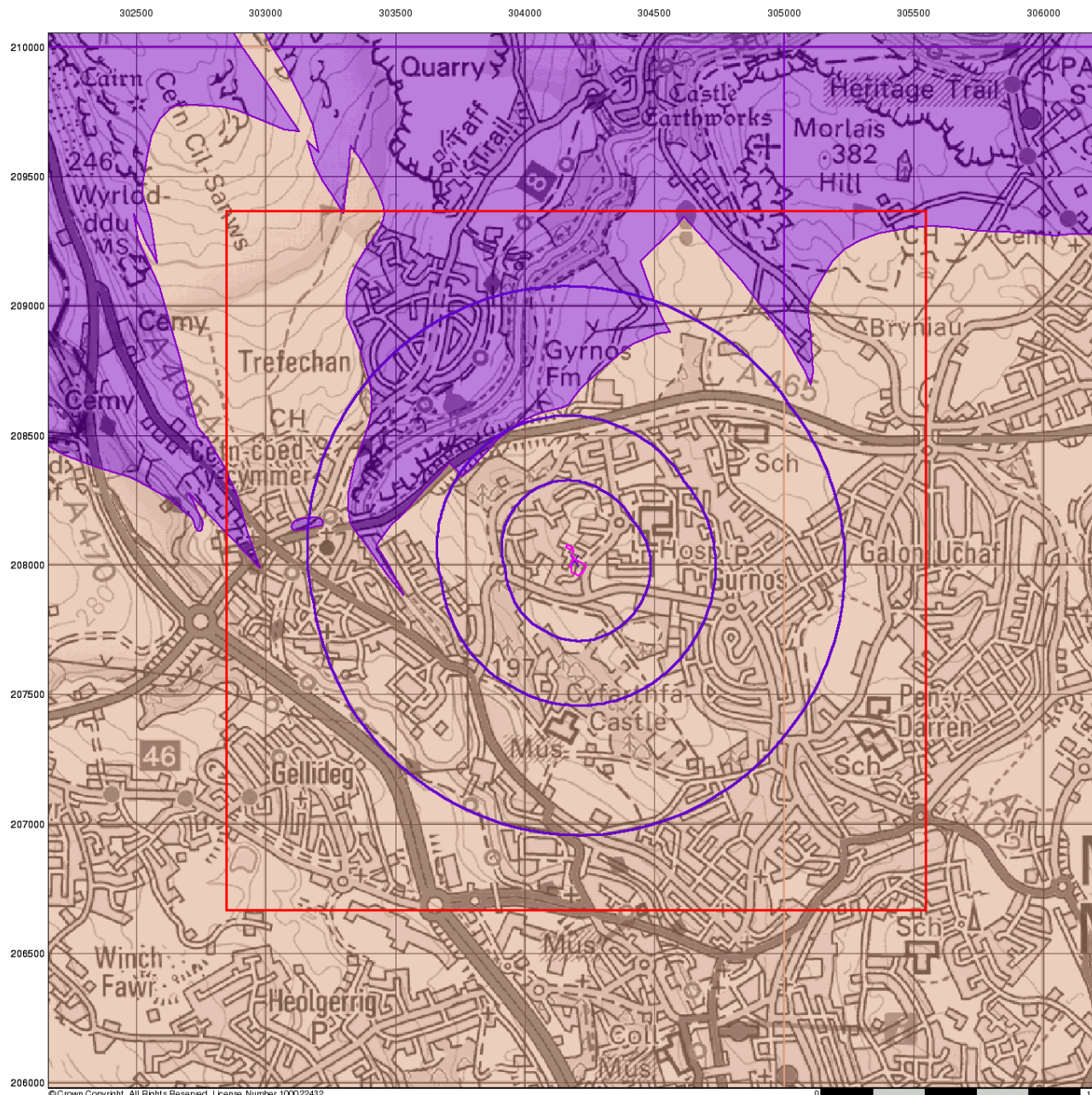
Order Number: 268703332_1_1
 Customer Ref: 16396RH
 National Grid Reference: 304190, 208020
 Slice: A
 Site Area (Ha): 0.28
 Search Buffer (m): 1000

Site Details

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0 1 km



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Bedrock Aquifer Designation

General

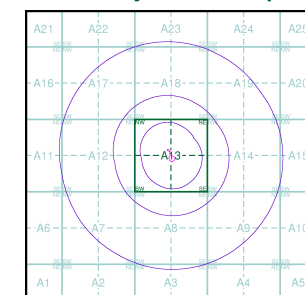
- Specified Site
- Specified Buffer(s)
- Slice
- Bearing Reference Point
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

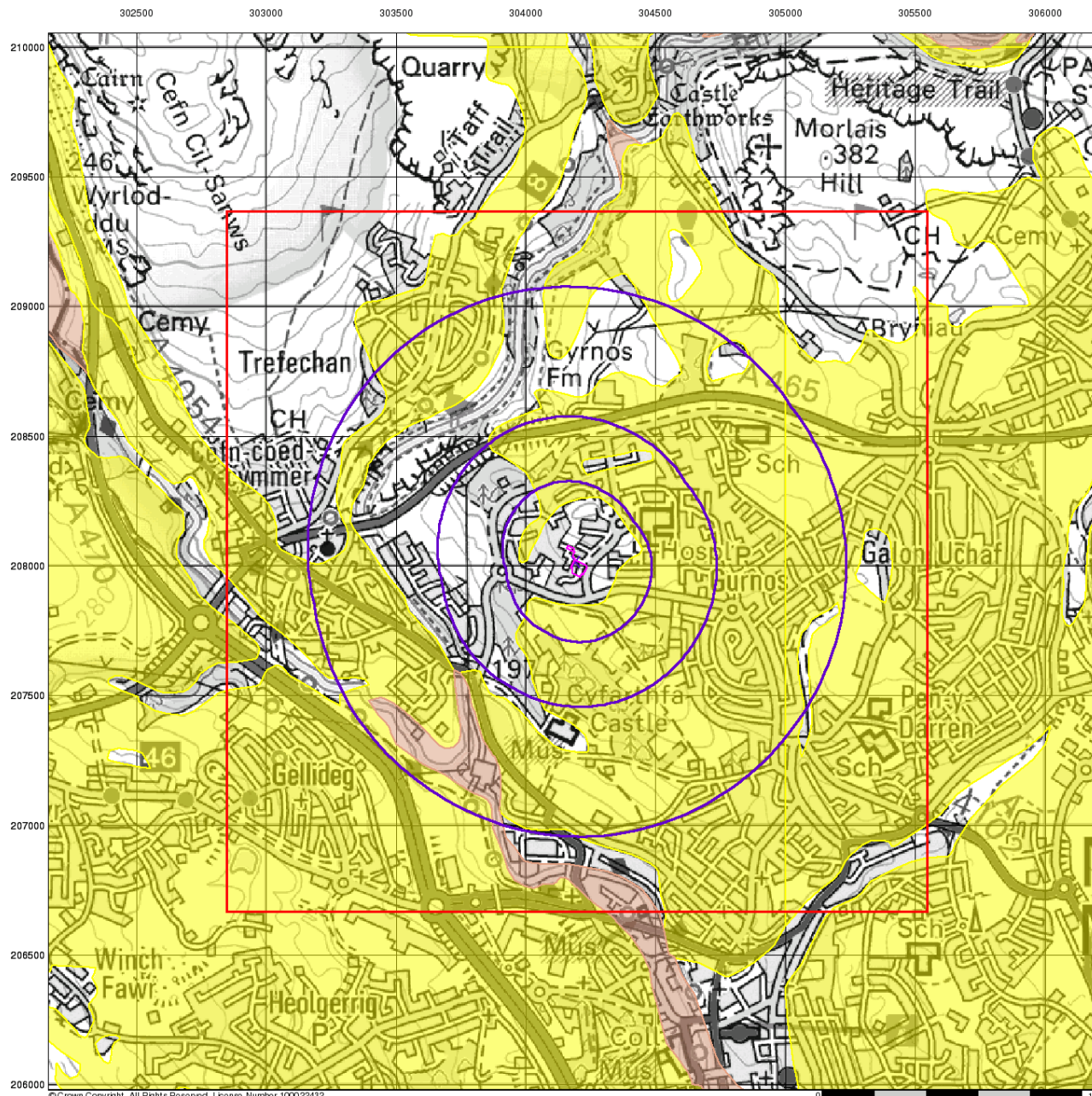
Order Number: 268703332_1_1
 Customer Ref: 16396RH
 National Grid Reference: 304190, 208020
 Slice: A
 Site Area (Ha): 0.28
 Search Buffer (m): 1000

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Superficial Aquifer Designation

General

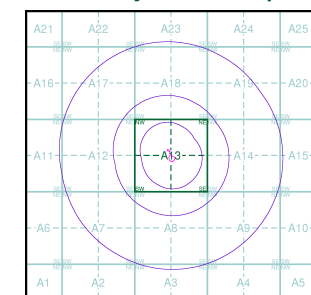
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

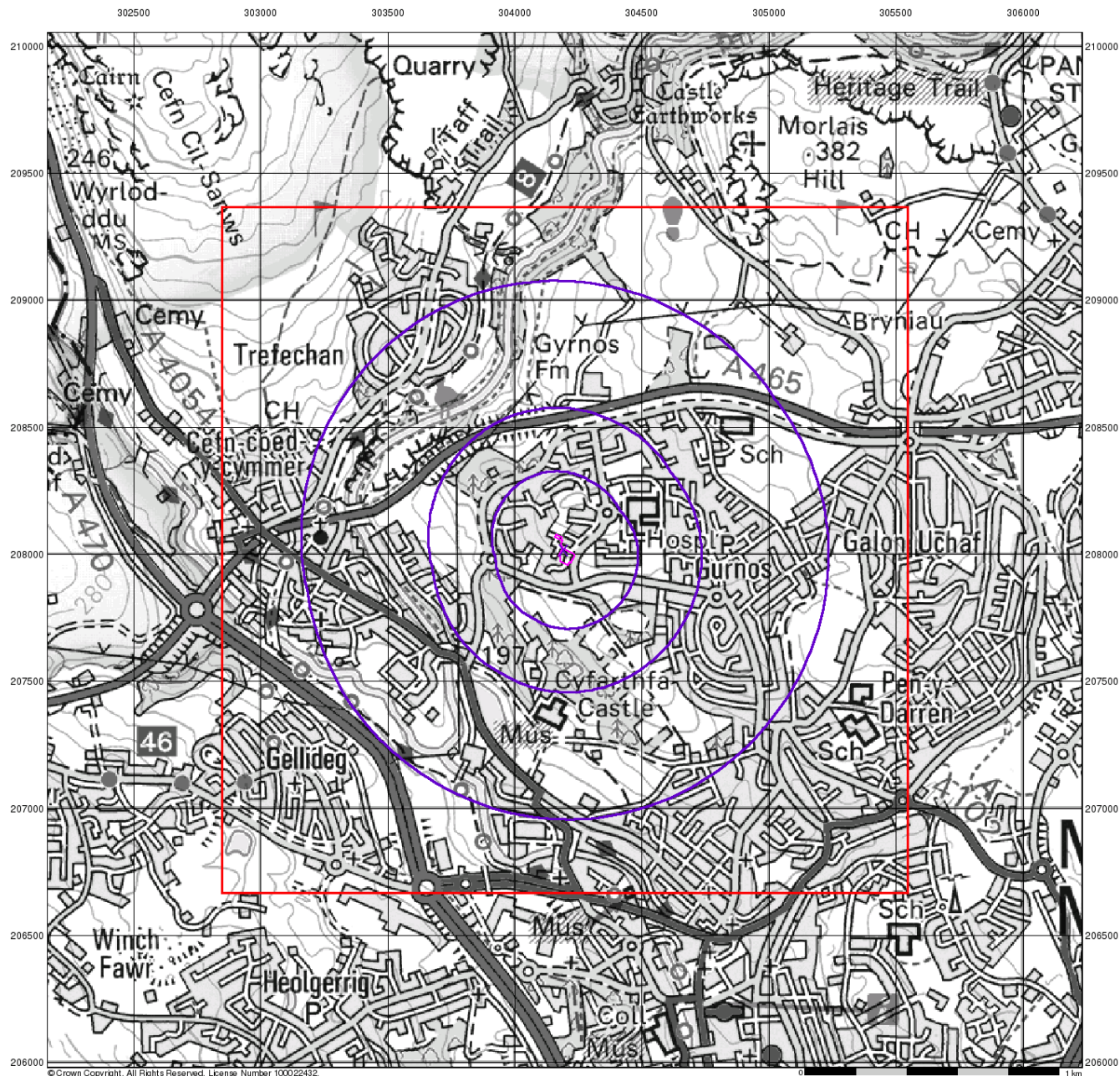
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 National Grid Reference: 304190, 208020
 Slice: A
 Site Area (Ha): 0.28
 Search Buffer (m): 1000

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Source Protection Zones

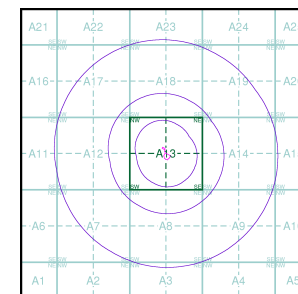
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

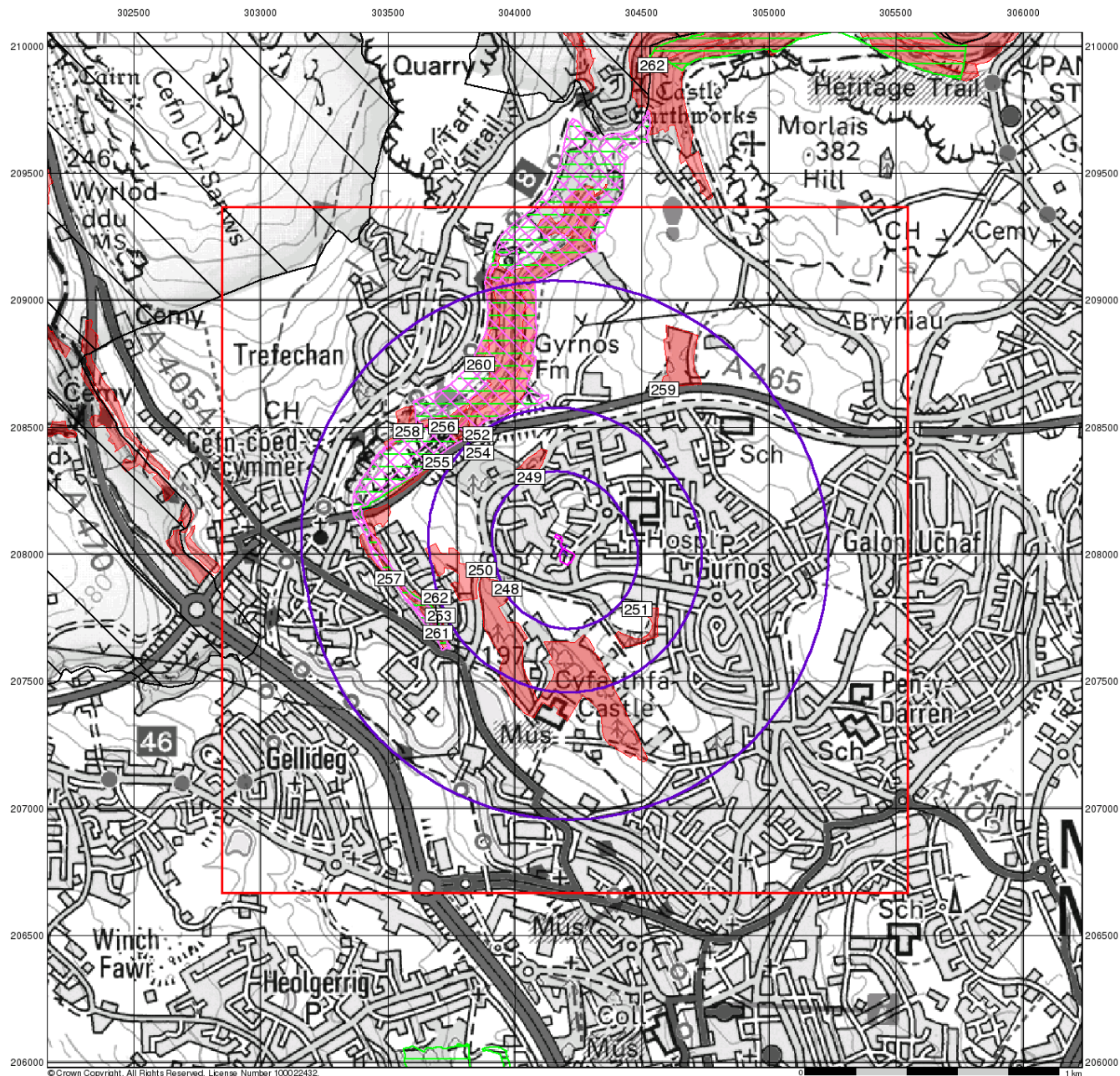
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 Customer Ref: 16396RH
 National Grid Reference: 304190, 208020
 Slice: A
 Site Area (Ha): 0.28
 Search Buffer (m): 1000

Site Details

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Sensitive Land Uses

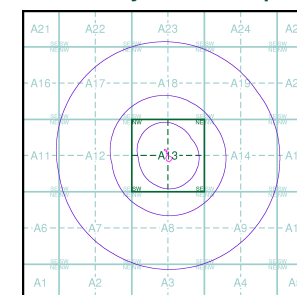
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

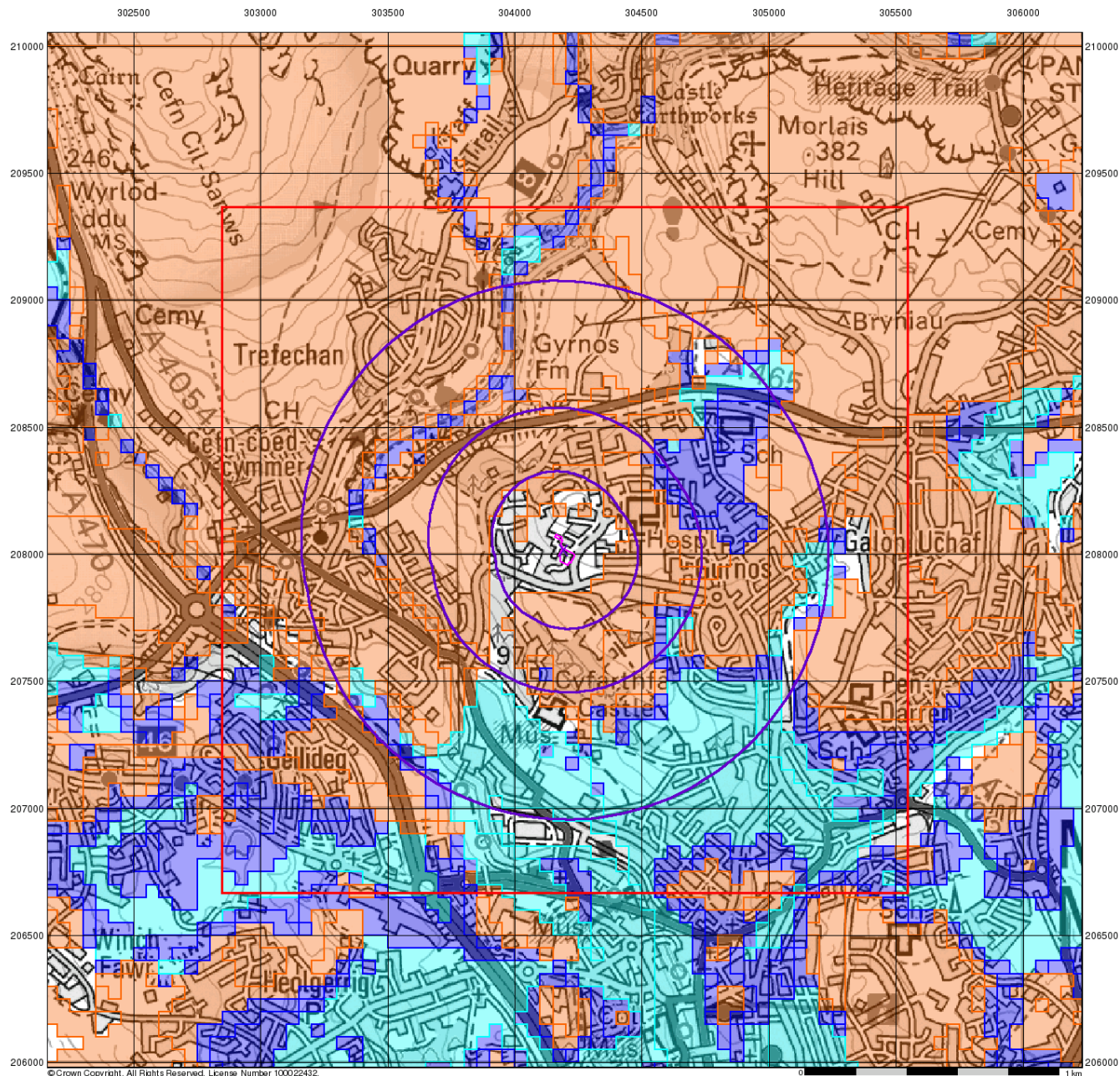
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 Customer Ref: 16396RH
 National Grid Reference: 304190, 208020
 Slice: A
 Site Area (Ha): 0.28
 Search Buffer (m): 1000

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BGS Flood GFS Data

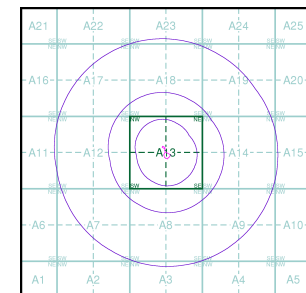
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 268703332_1_1
 Customer Ref: 16396RH
 National Grid Reference: 304190, 208020
 Slice: A
 Site Area (Ha): 0.28
 Search Buffer (m): 1000

Site Details

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General

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

Agency and Hydrological

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

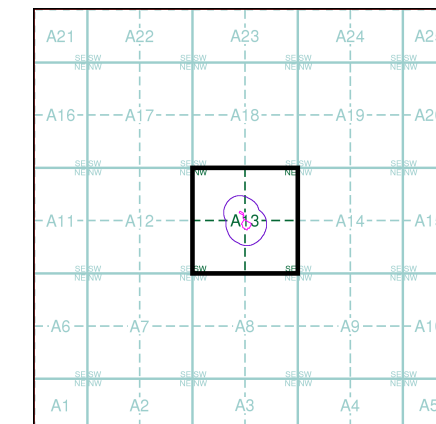
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13

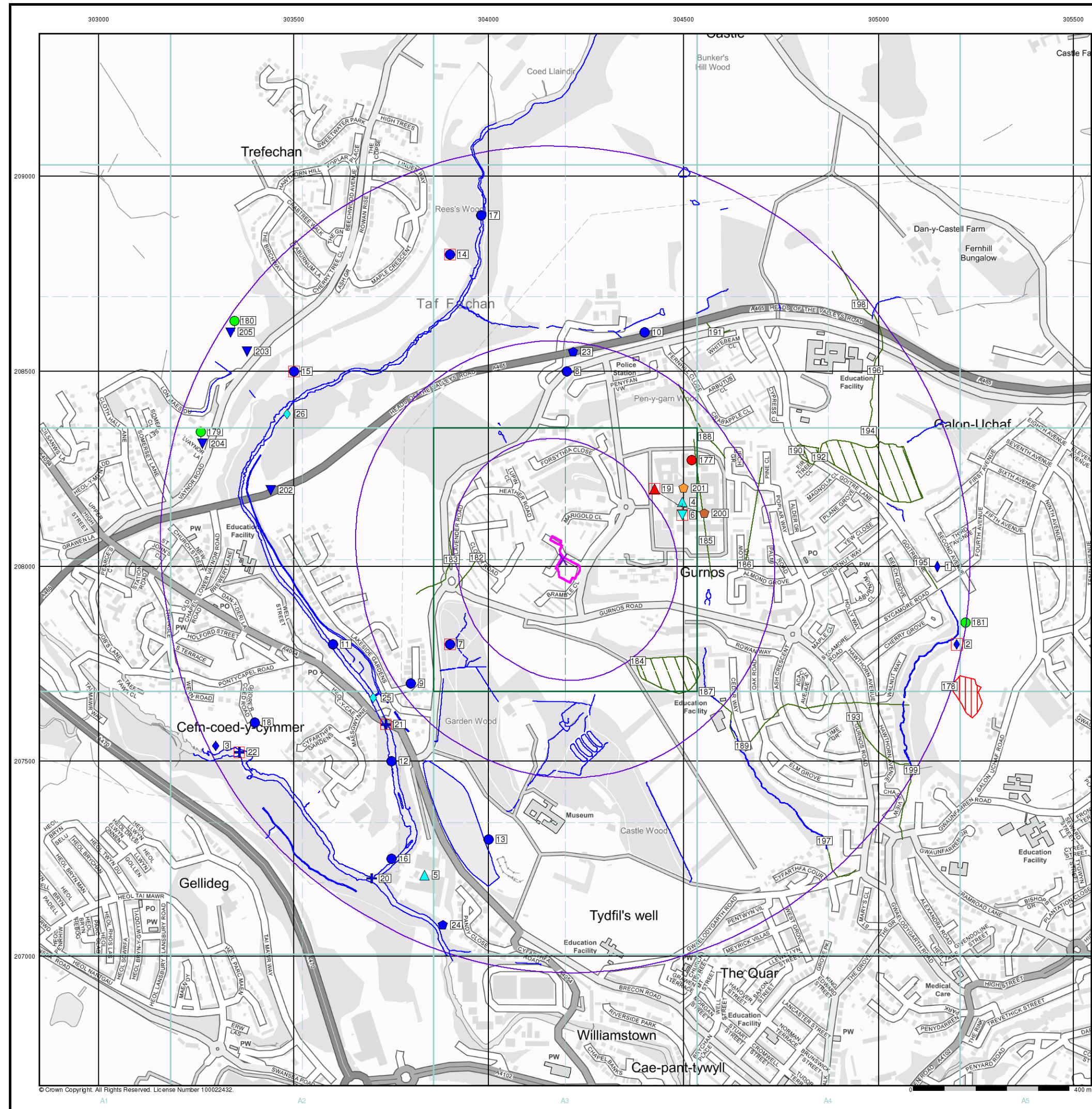


Order Details

Order Number: 268703332_1_1
Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Plot Buffer (m): 100

Site Details

Honeysuckle Close, MERTHYR TYDFIL, CF47 9DD

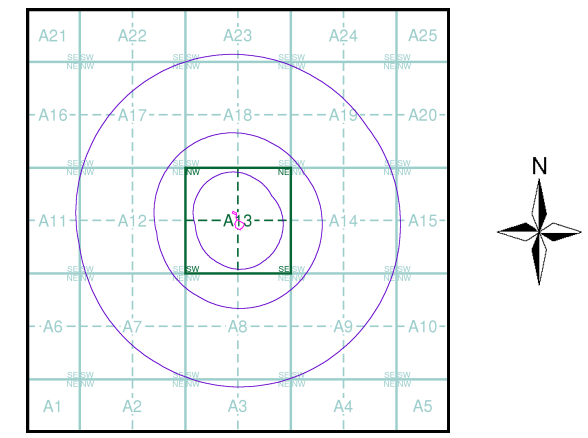


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- General**
 - Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
 - Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
 - BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site (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
- Geological**

Site Sensitivity Map - Slice A

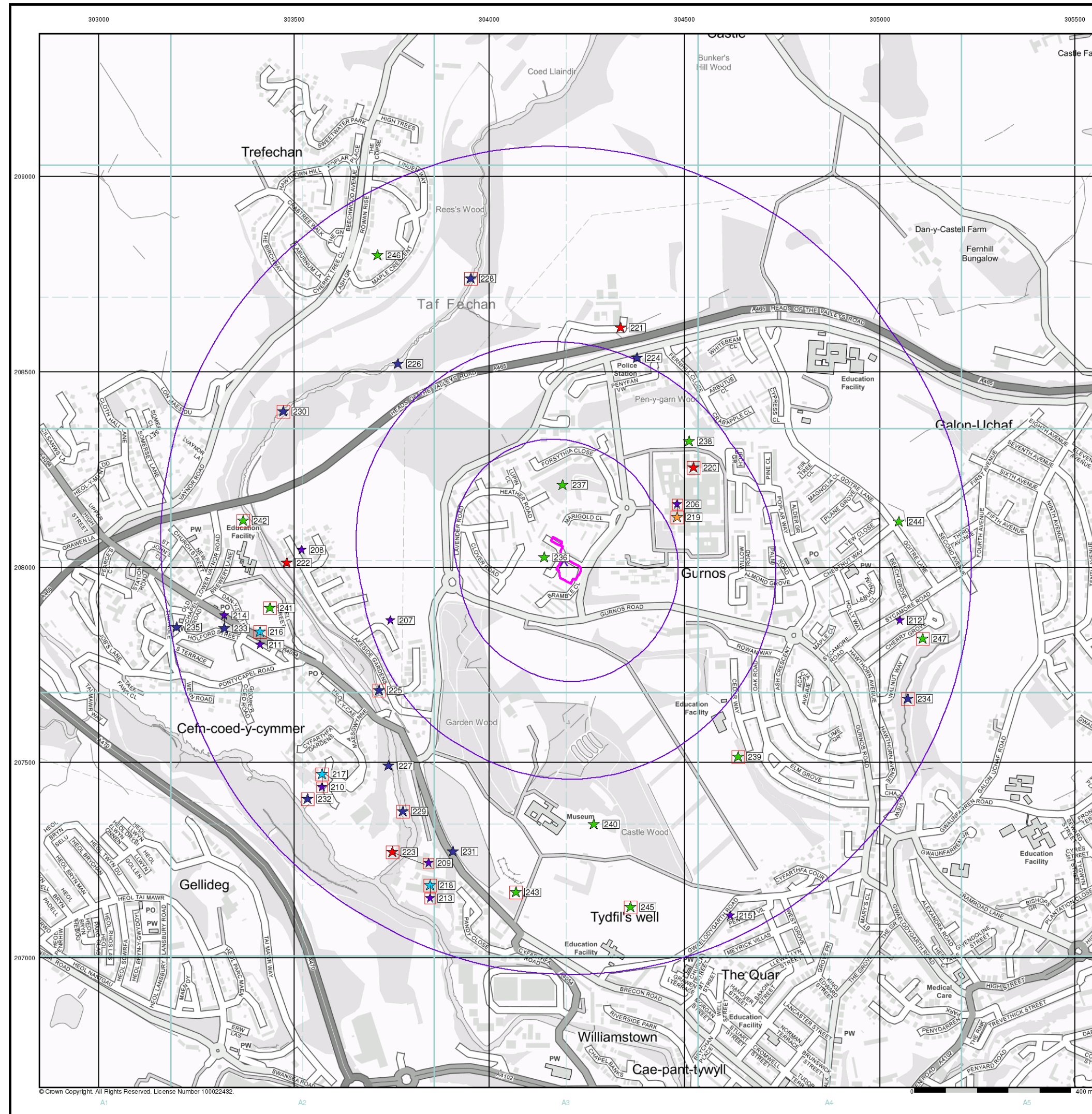


Order Details
Order Number: 268703332_1_1
Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 1000

Site Details
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Landmark
INFORMATION GROUP

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Industrial Land Use Map

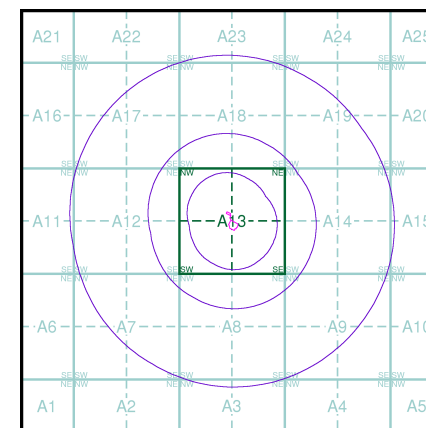
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice A



Order Details

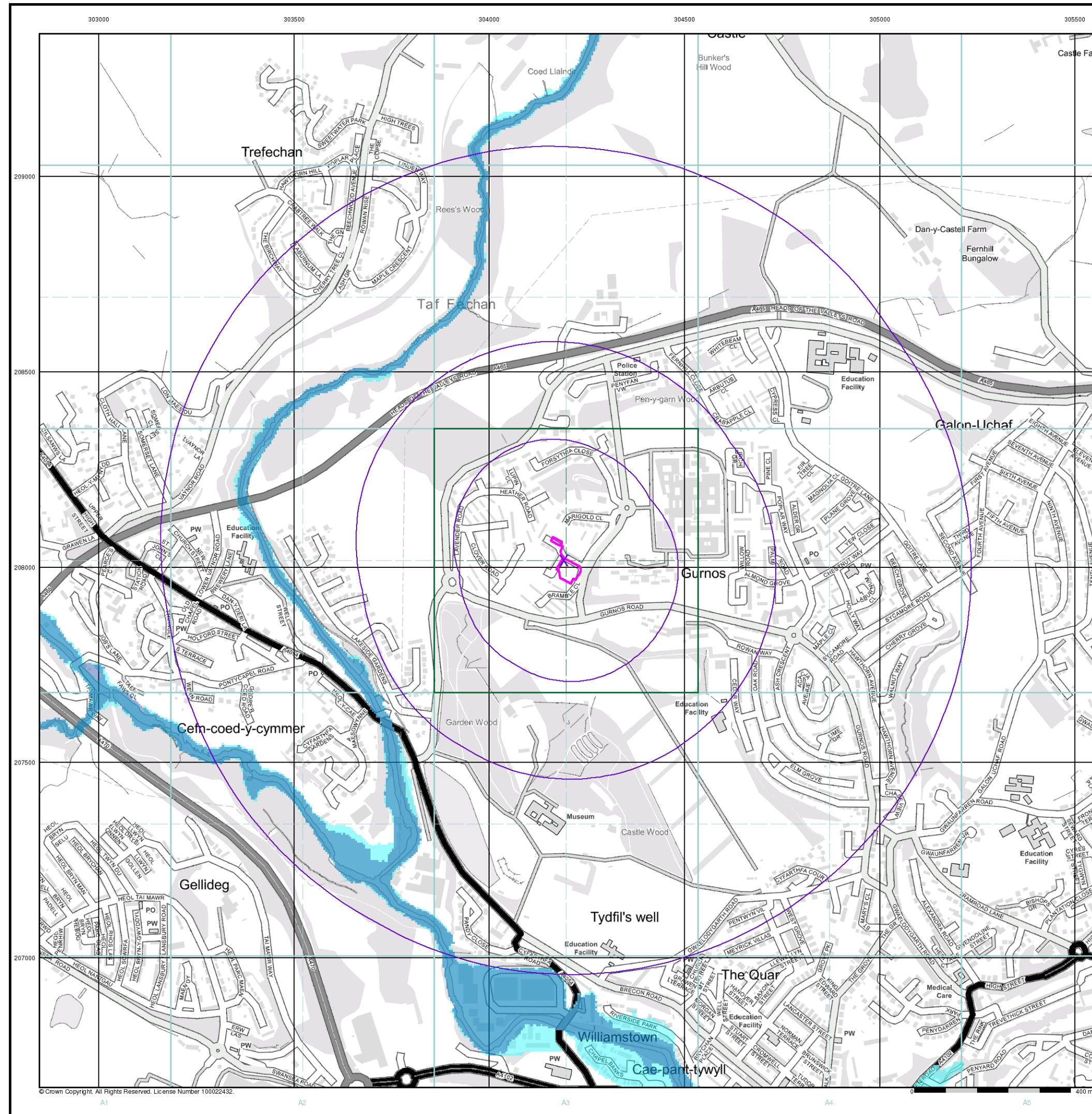
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Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 1000

Site Details

Honeysuckle Close, MERTHYR TYDFIL, CF47 9DD



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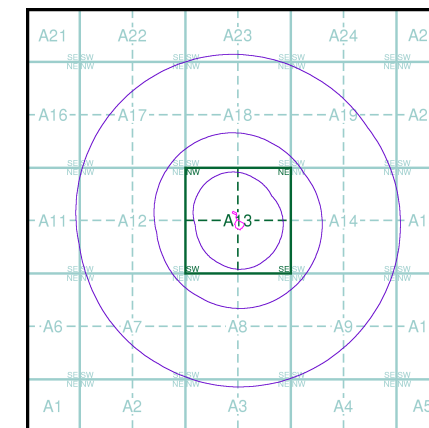
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A

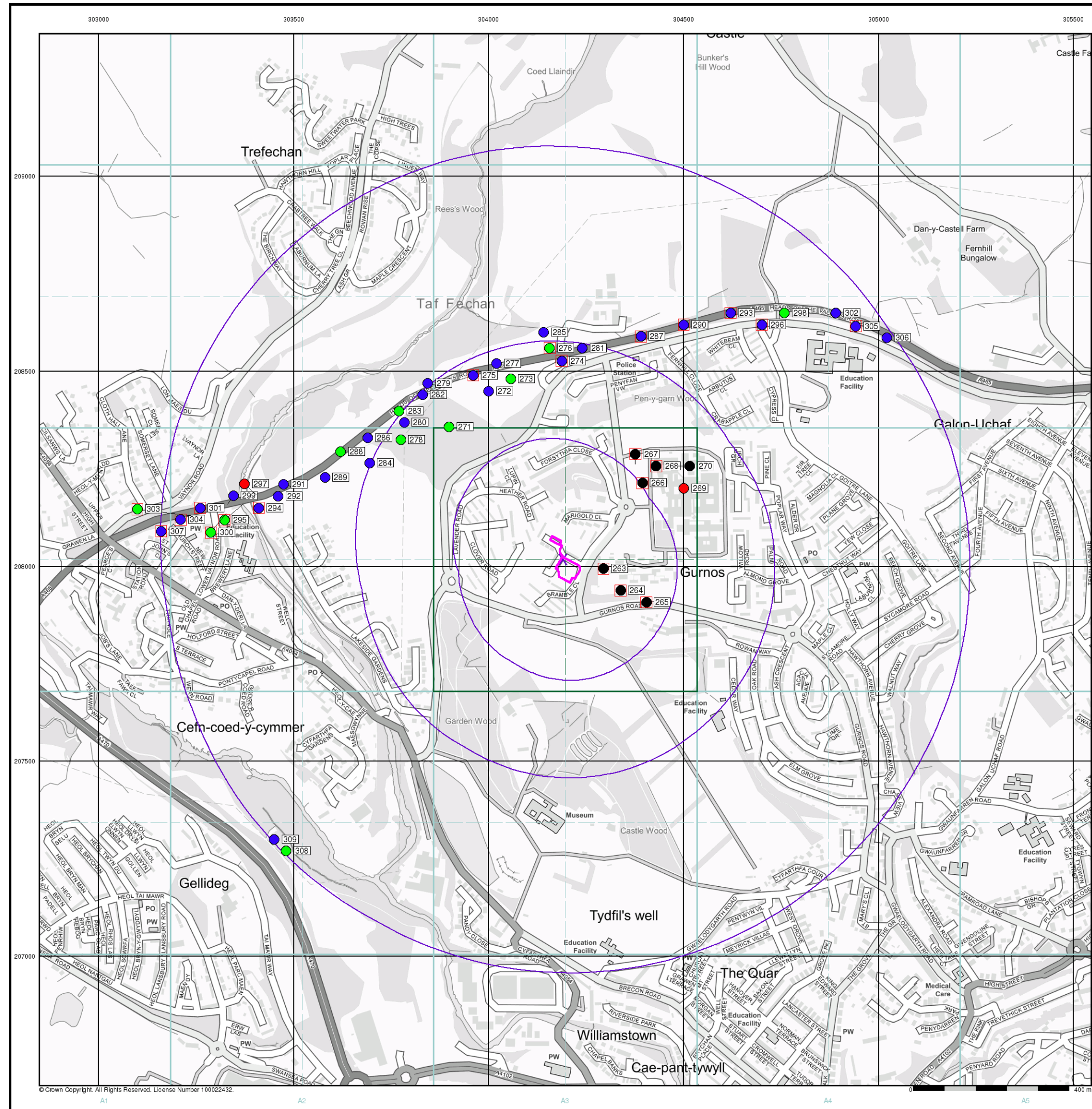


Order Details

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Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 1000

Site Details

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General

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

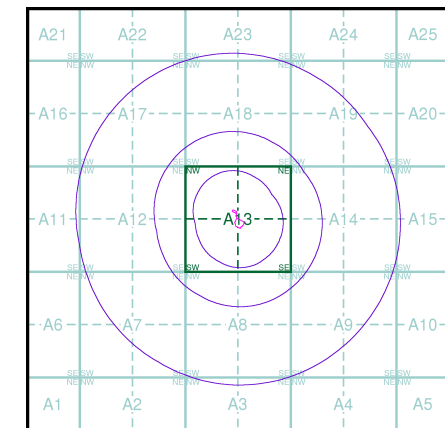
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



Order Details

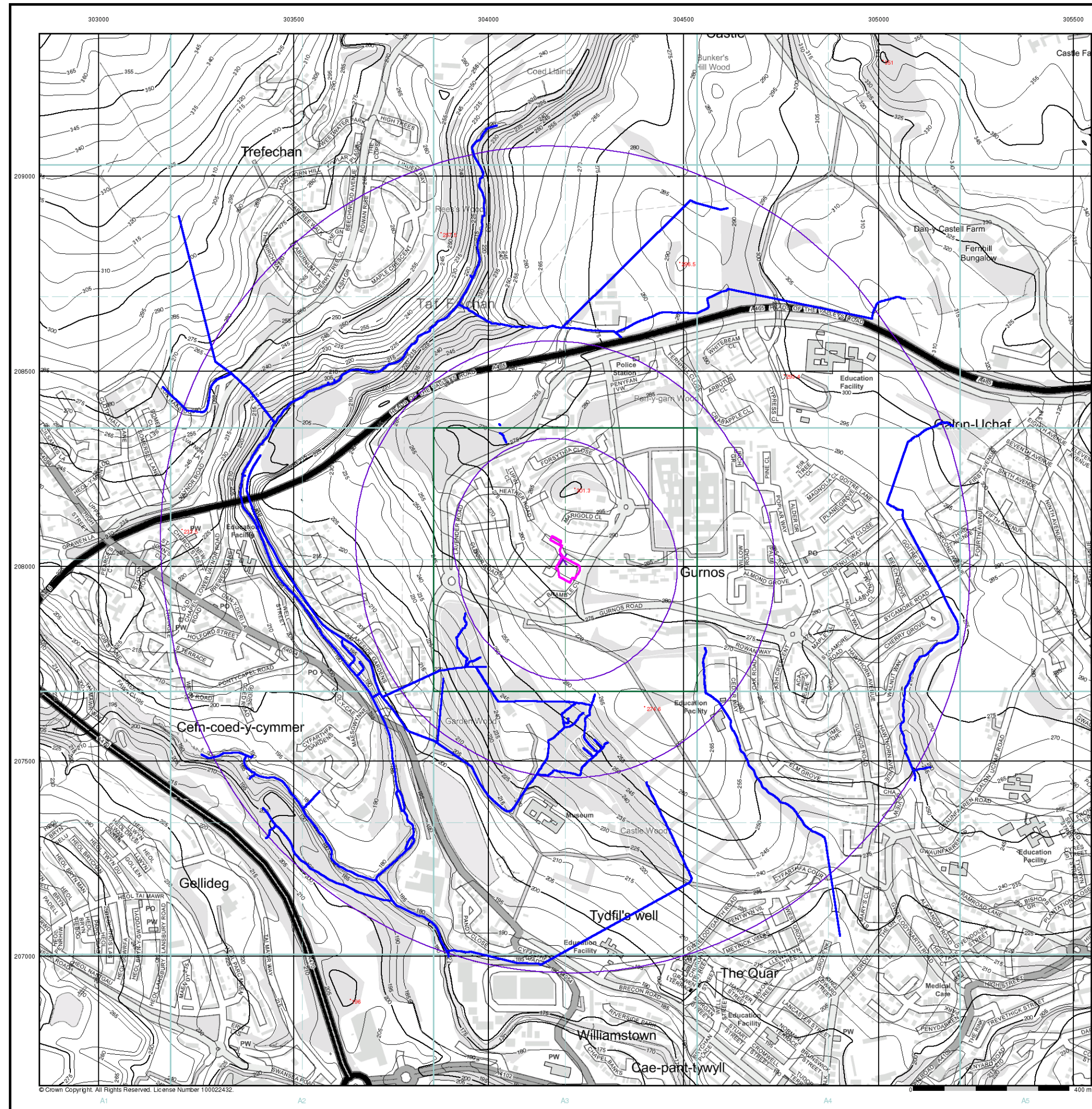
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Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 1000

Site Details

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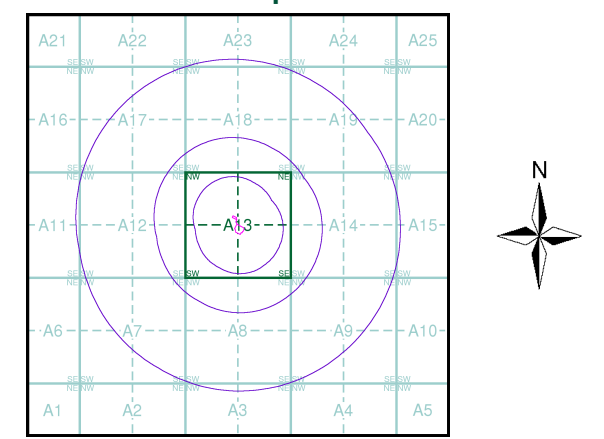


- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point

- OS Water Network Data**
- | | |
|--------------|-------------------------|
| Canal | Drain |
| Reservoir | Other |
| Foreshore | Lake |
| Marsh | Transfer |
| Tidal River | Lock Or Flight Of Locks |
| Inland River | Sea |

- Contours (height in meters)**
- Standard Contour 105 100 95
- Master Contour
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A

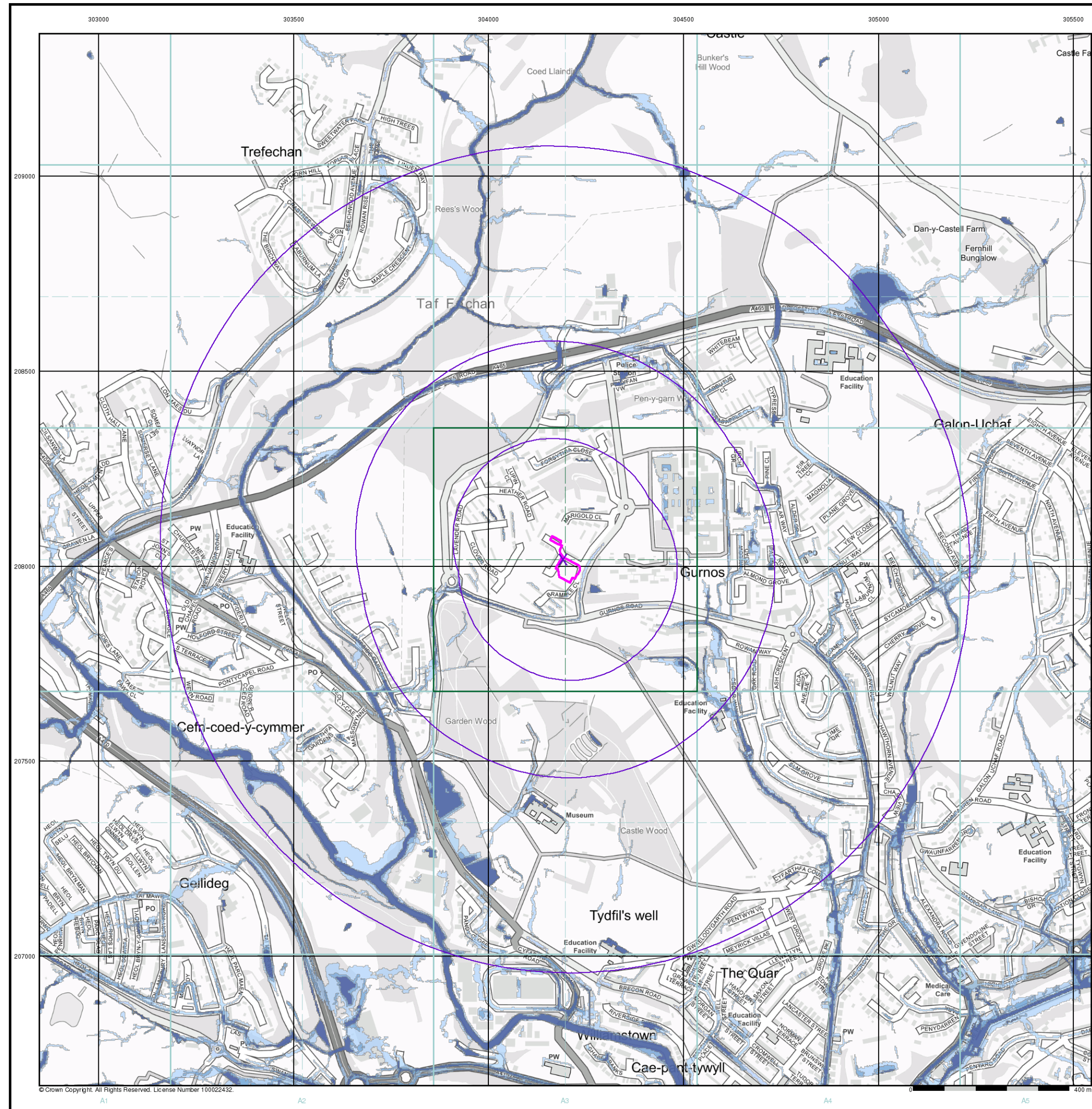


Order Details

Order Number: 268703332_1_1
Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 1000

Site Details

Honeysuckle Close, MERTHYR TYDFIL, CF47 9DD



© Crown Copyright. All Rights Reserved. License Number 100022432.



General

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

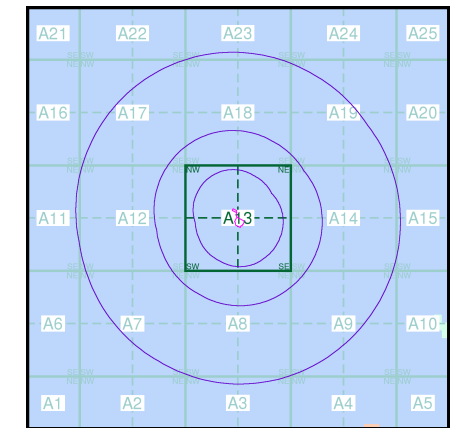
Risk of Flooding from Surface Water

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

Suitability

- See the suitability map below
- National to county
 - County to town
 - Town to street
 - Street to parcels of land
 - Property

E/NRW Suitability Map - Slice A



Order Details

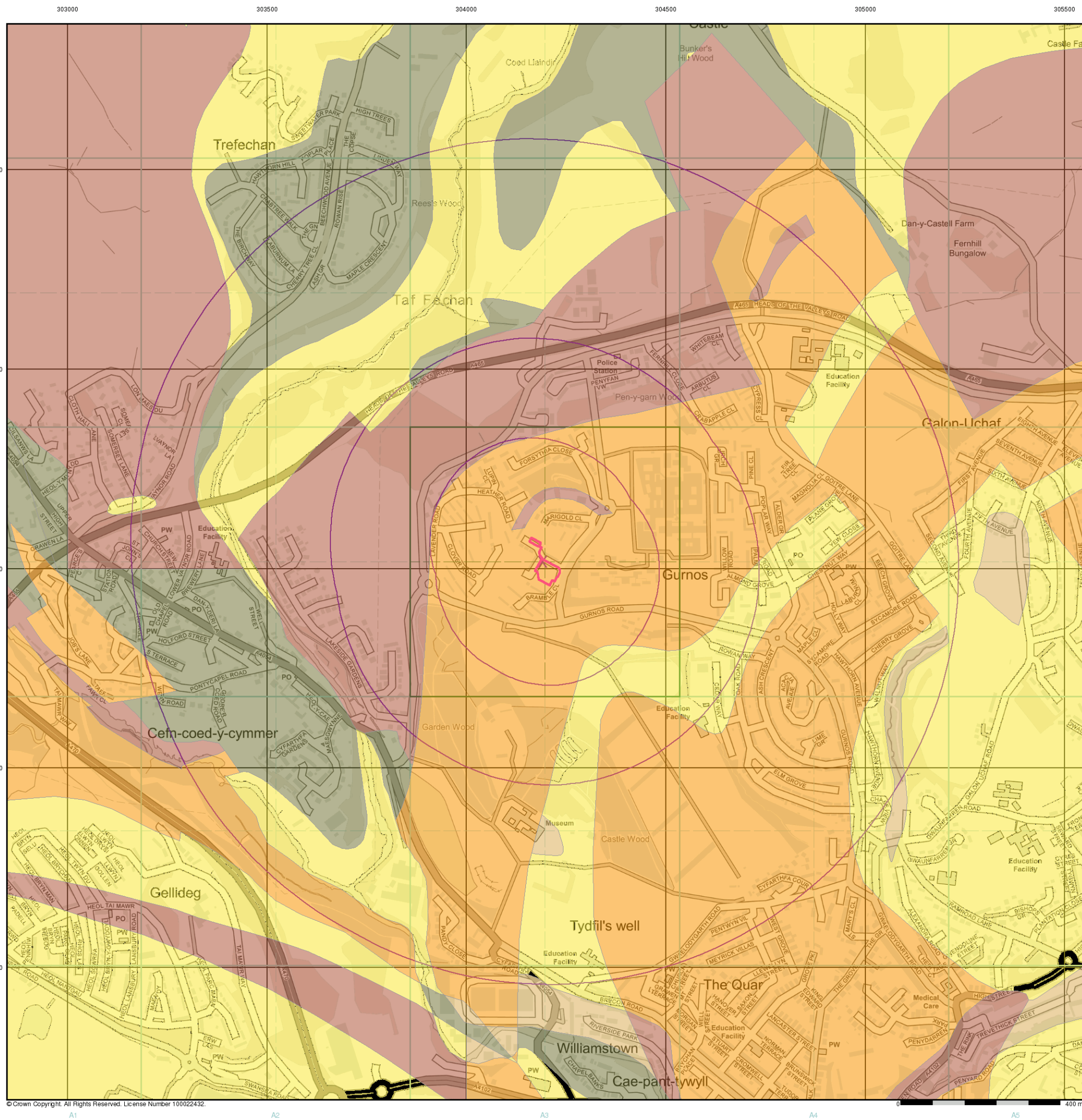
Order Number: 268703332_1_1
Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 1000

Site Details

Honeysuckle Close, MERTHYR TYDFIL, CF47 9DD



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Web: www.envirocheck.co.uk



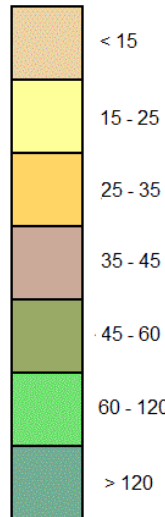
Geotechnical & Geoenvironmental Specialists

General

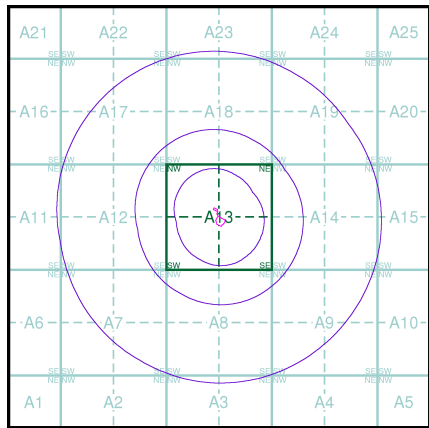
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A



Order Details

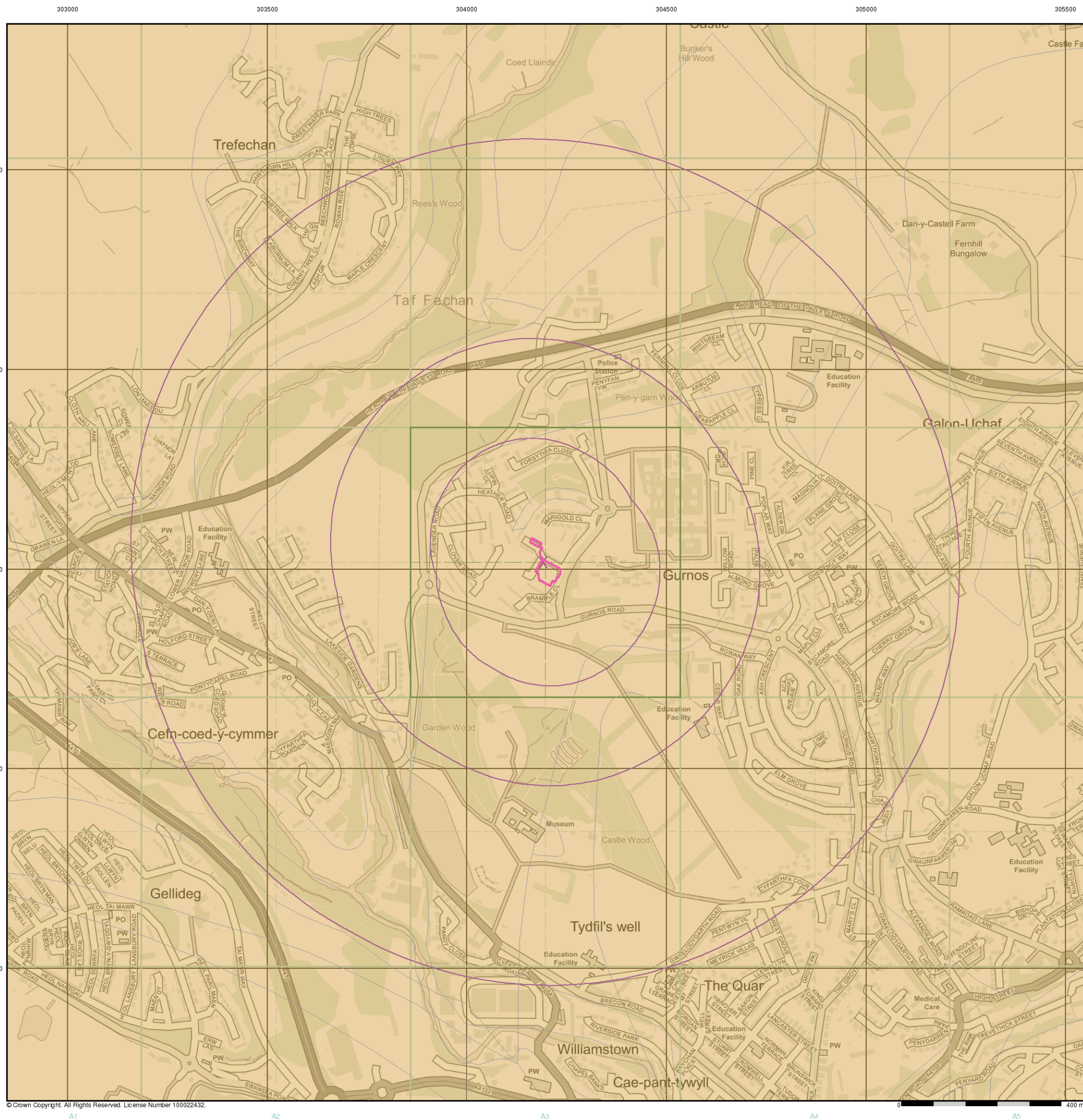
Order Details: 268703332_1_1
Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 1000

Site Details

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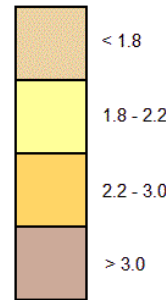
Geotechnical & Geoenvironmental Specialists

General

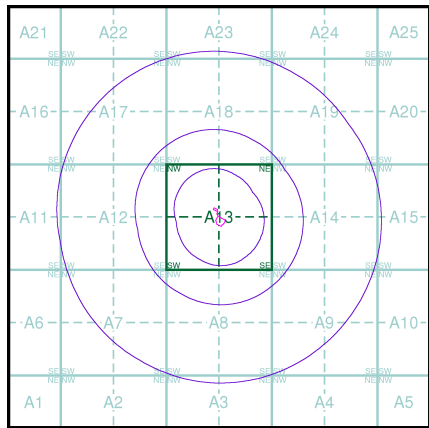
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

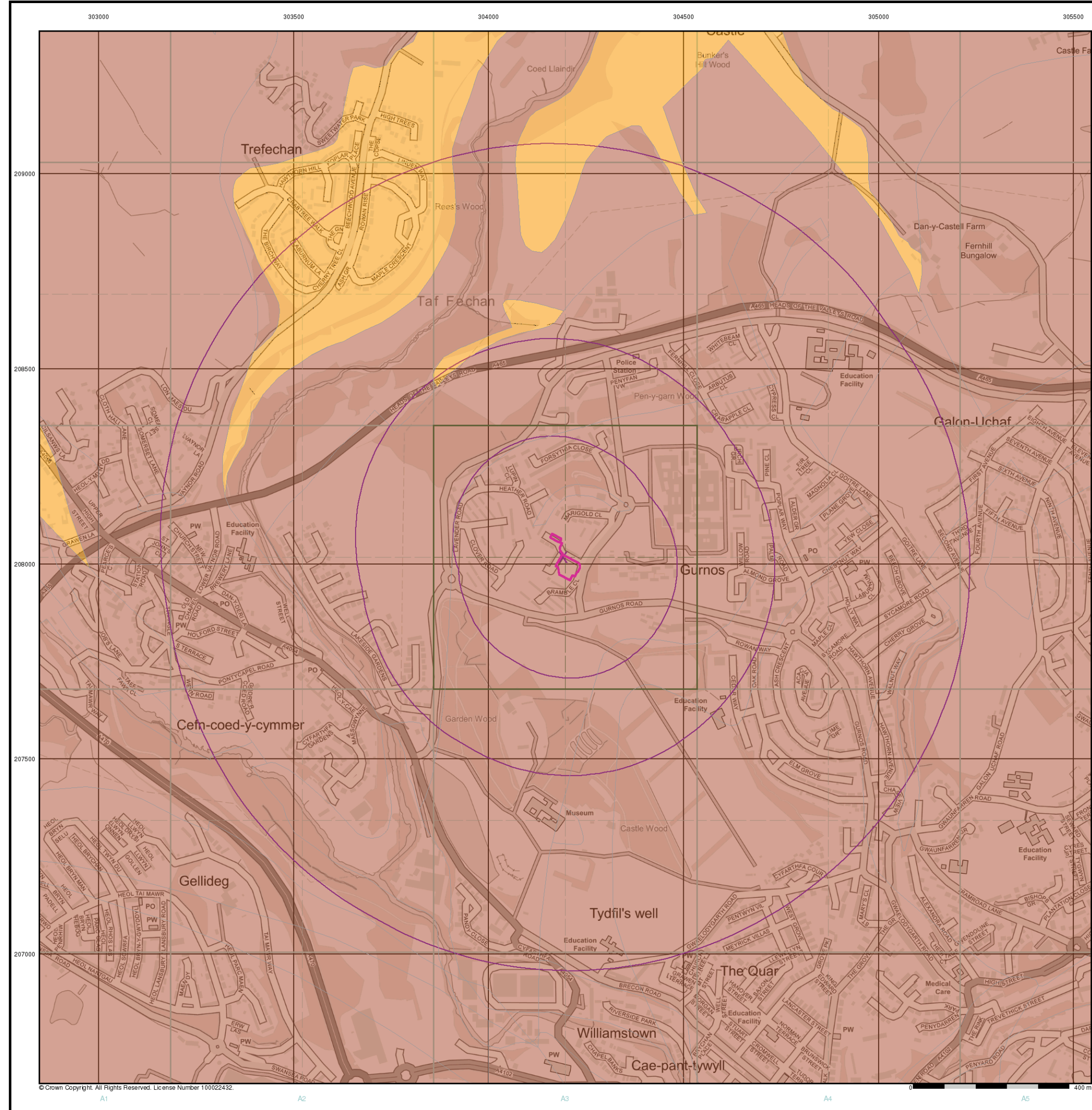
Order Details: 268703332_1_1
Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 1000

Site Details

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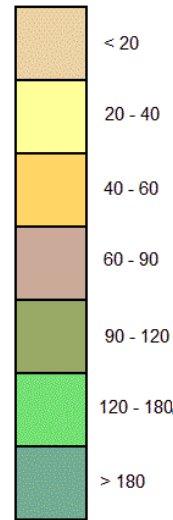
Geotechnical & Geoenvironmental Specialists

General

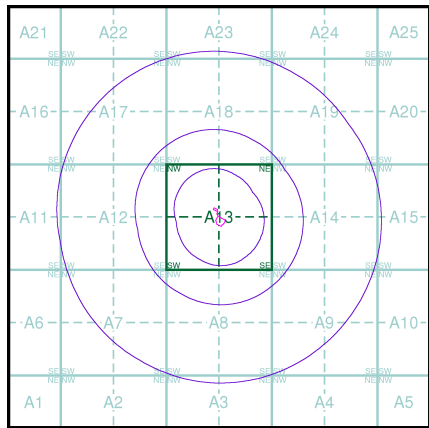
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

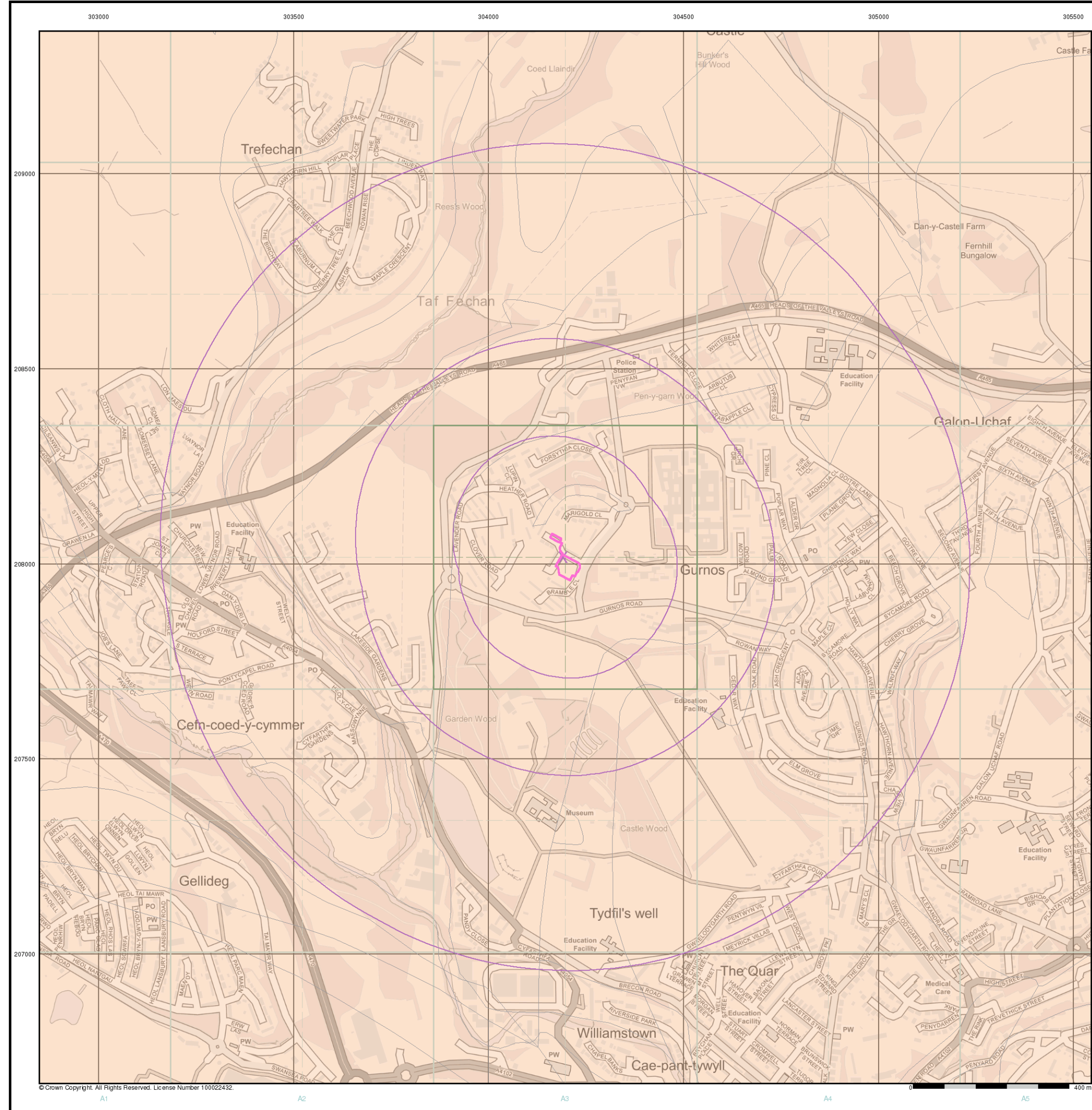
Order Details: 268703332_1_1
Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 1000

Site Details

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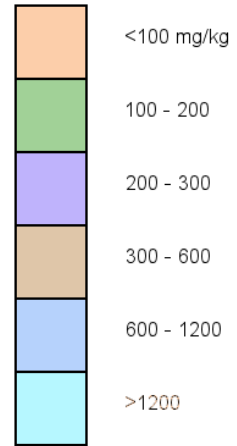
Geotechnical & Geoenvironmental Specialists

General

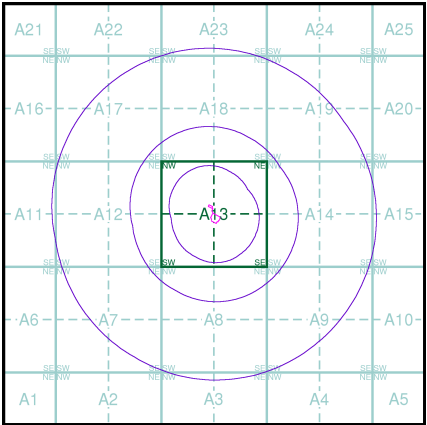
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

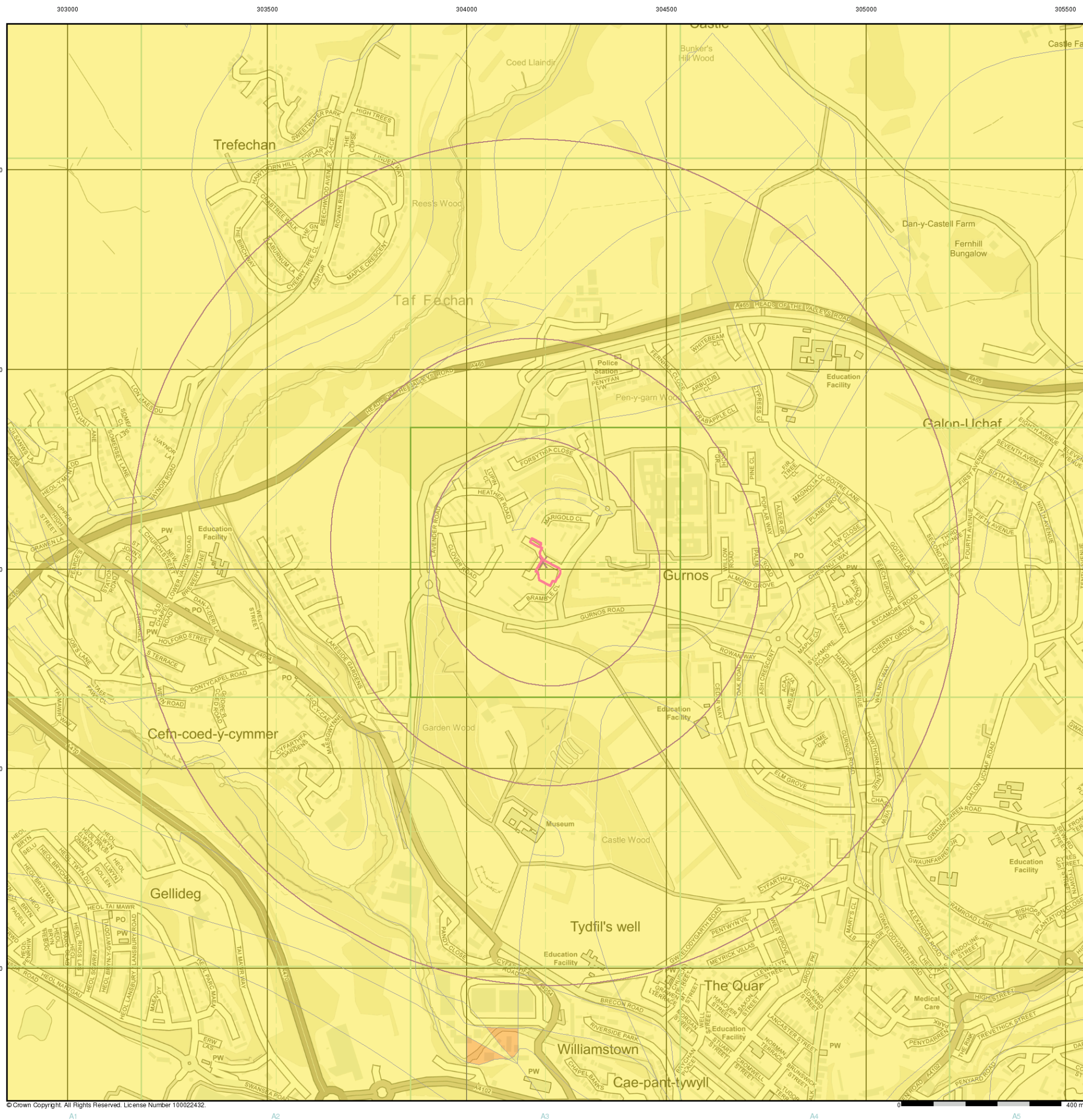
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Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 1000

Site Details

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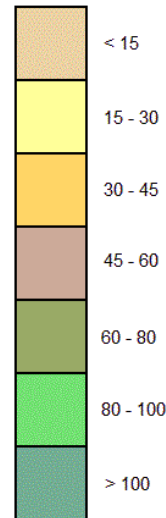
Geotechnical & Geoenvironmental Specialists

General

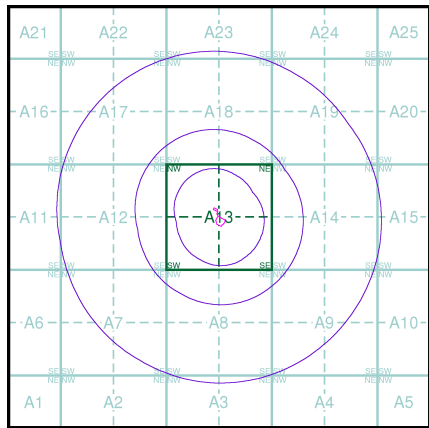
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details: 268703332_1_1
Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 1000

Site Details

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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

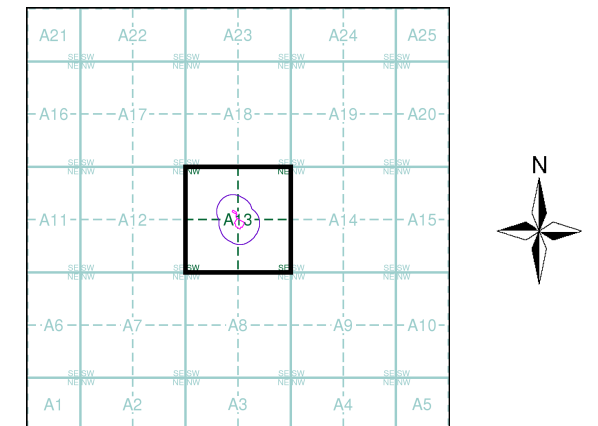


Geotechnical & Geoenvironmental Specialists

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1875	2
Brecknockshire	1:2,500	1887	3
Glamorganshire	1:2,500	1900	4
Brecknockshire	1:2,500	1904	5
Brecknockshire	1:2,500	1919	6
Ordnance Survey Plan	1:1,250	1958 - 1980	7
Ordnance Survey Plan	1:2,500	1963 - 1964	8
Ordnance Survey Plan	1:1,250	1963 - 1989	9
Additional SIMs	1:2,500	1964	10
Supply of Unpublished Survey Information	1:2,500	1973	11
Additional SIMs	1:1,250	1977 - 1986	12
Additional SIMs	1:1,250	1981 - 1990	13
Ordnance Survey Plan	1:2,500	1986	14
Ordnance Survey Plan	1:1,250	1987	15
Additional SIMs	1:1,250	1990	16
Large-Scale National Grid Data	1:1,250	1993	17
Large-Scale National Grid Data	1:1,250	1995	18
Historical Aerial Photography	1:2,500	2001	19

Historical Map - Segment A13



Order Details

Order Number: 268703332_1_1
Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 100

Site Details

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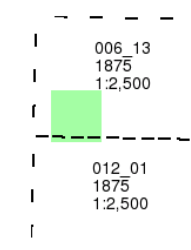
Glamorganshire

Published 1875

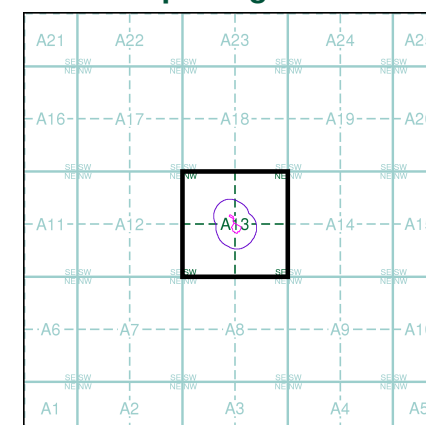
Source map scale - 1:2,500

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)



Historical Map - Segment A13



Order Details

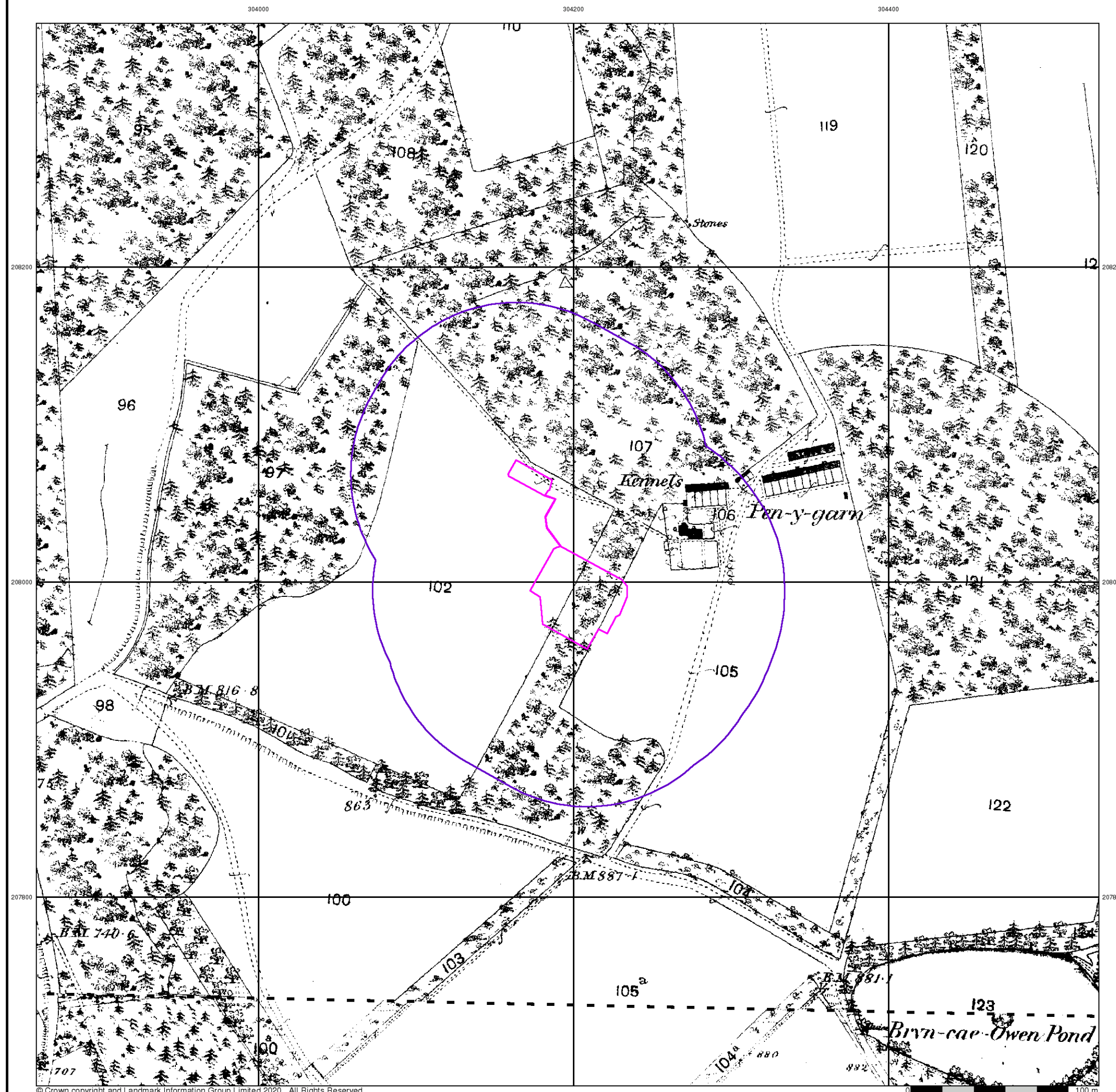
Order Number: 268703332_1_1
Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 100

Site Details

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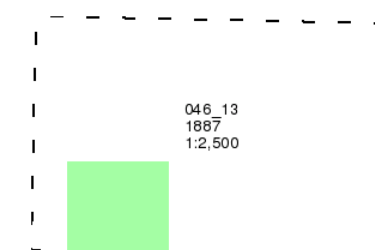
Brecknockshire

Published 1887

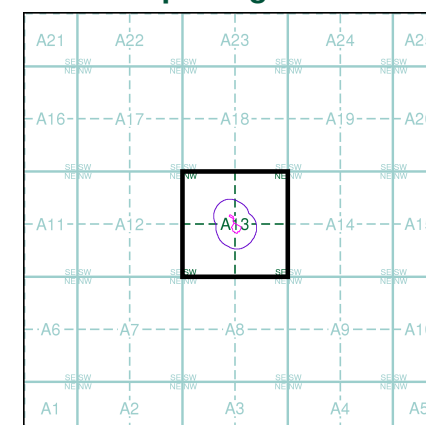
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

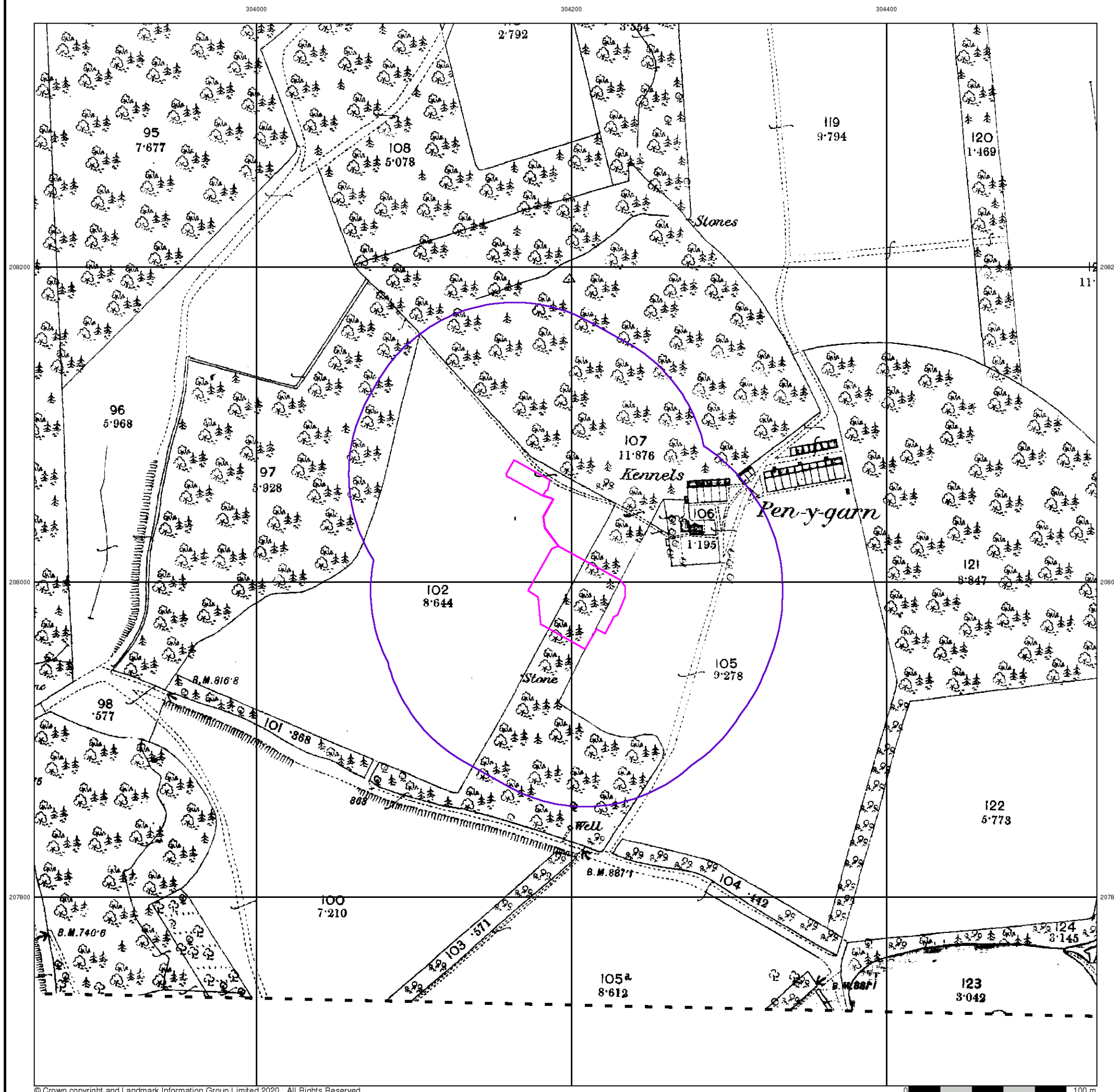
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Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 100

Site Details

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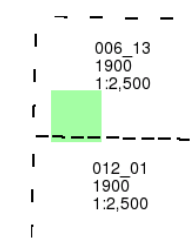
Glamorganshire

Published 1900

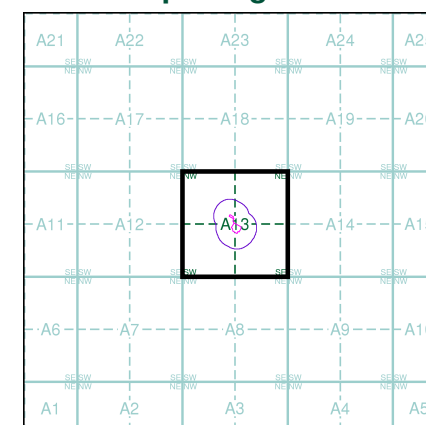
Source map scale - 1:2,500

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

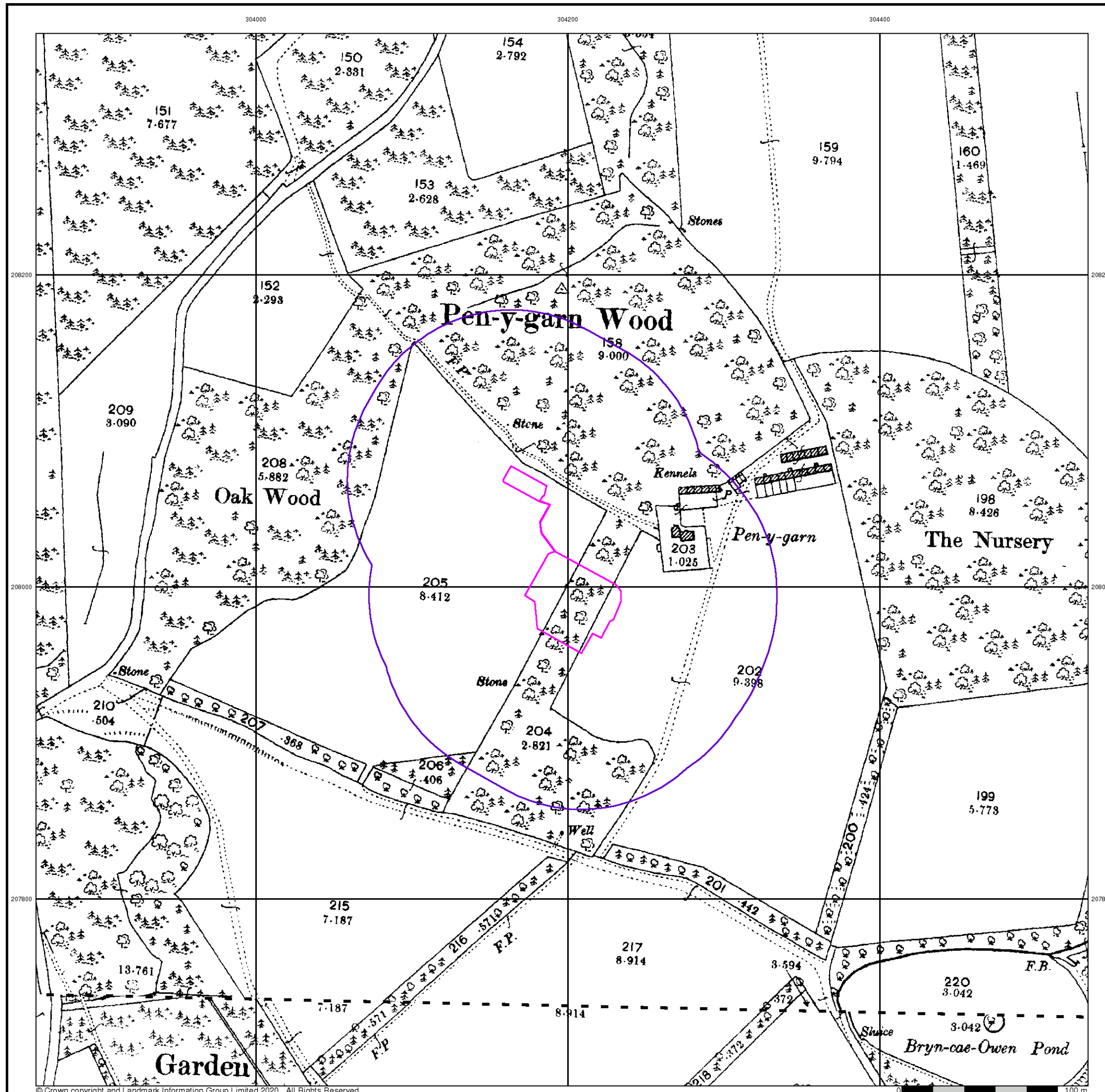
Order Number: 268703332_1_1
Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 100

Site Details

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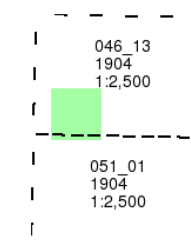
Brecknockshire

Published 1904

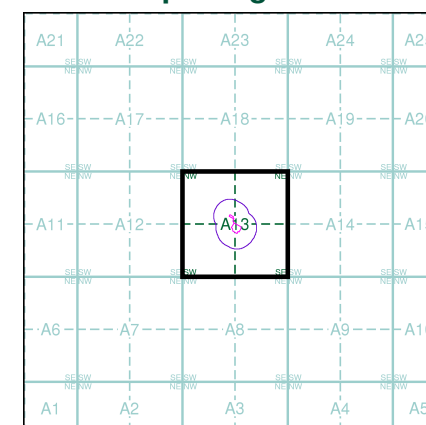
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 268703332_1_1
Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 100

Site Details

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Ordnance Survey Plan

Published 1958 - 1980

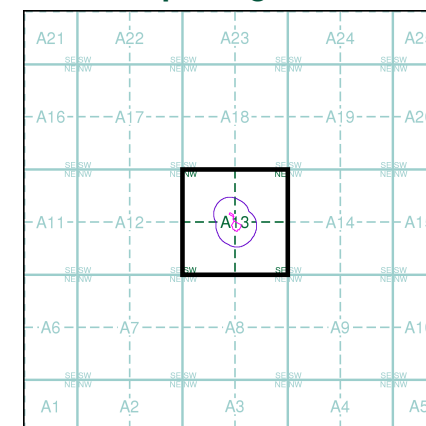
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SO0308SE 1980 1:1,250	SO0408SW 1974 1:1,250	SO0408SE 1970 1:1,250
SO0307NE 1958 1:1,250	SO0407NW 1963 1:1,250	SO0407NE 1963 1:1,250

Historical Map - Segment A13



Order Details

Order Number: 268703332_1_1
Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 100

Site Details

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Ordnance Survey Plan

Published 1963 - 1964

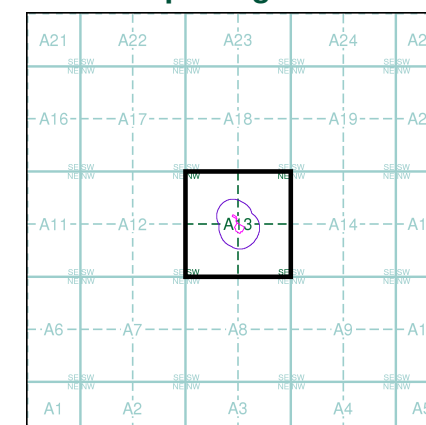
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SO0308 1964 12,500	SO0408 1964 12,500
SO0307 1964 12,500	SO0407 1963 12,500

Historical Map - Segment A13



Order Details

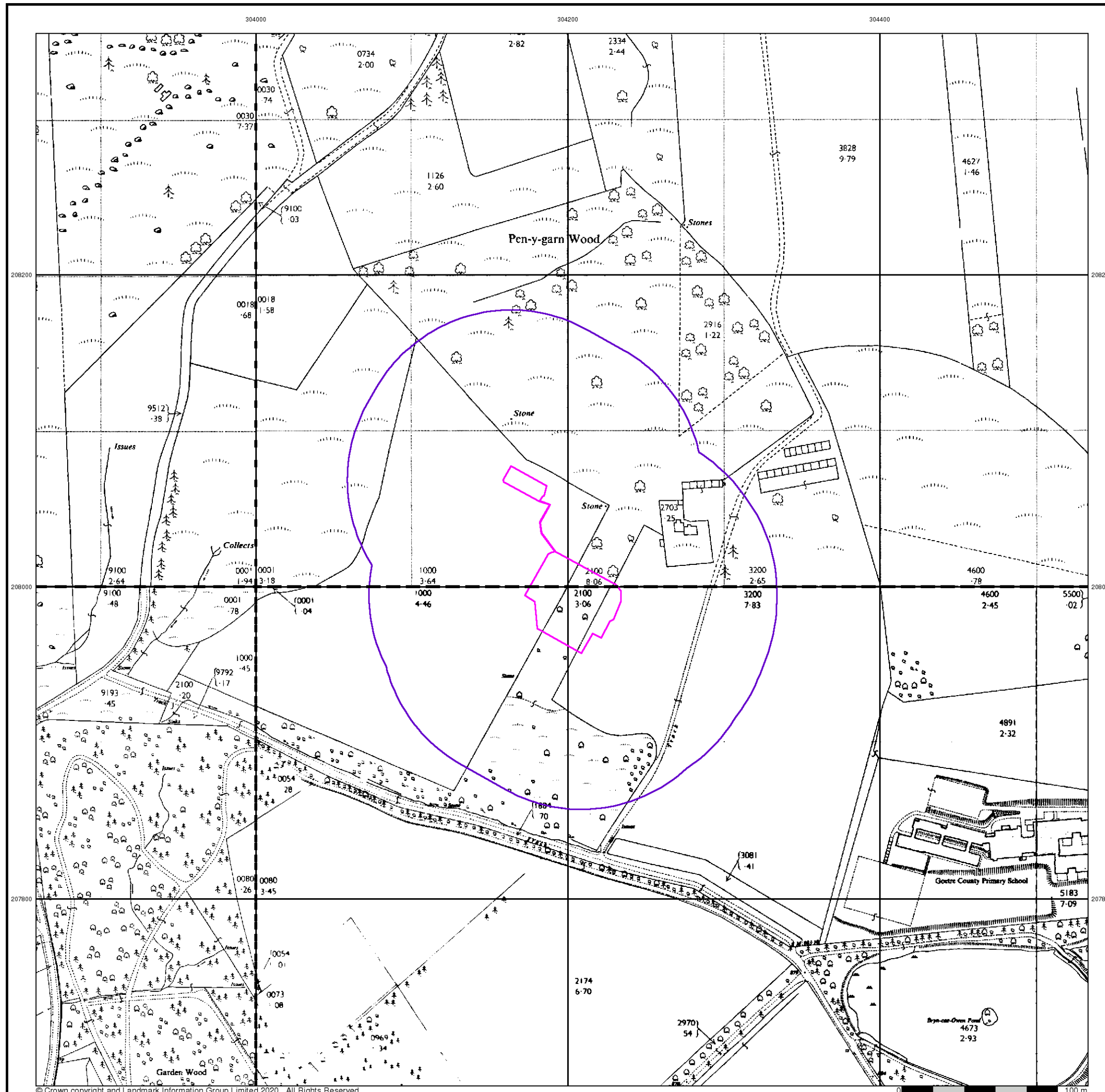
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Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 100

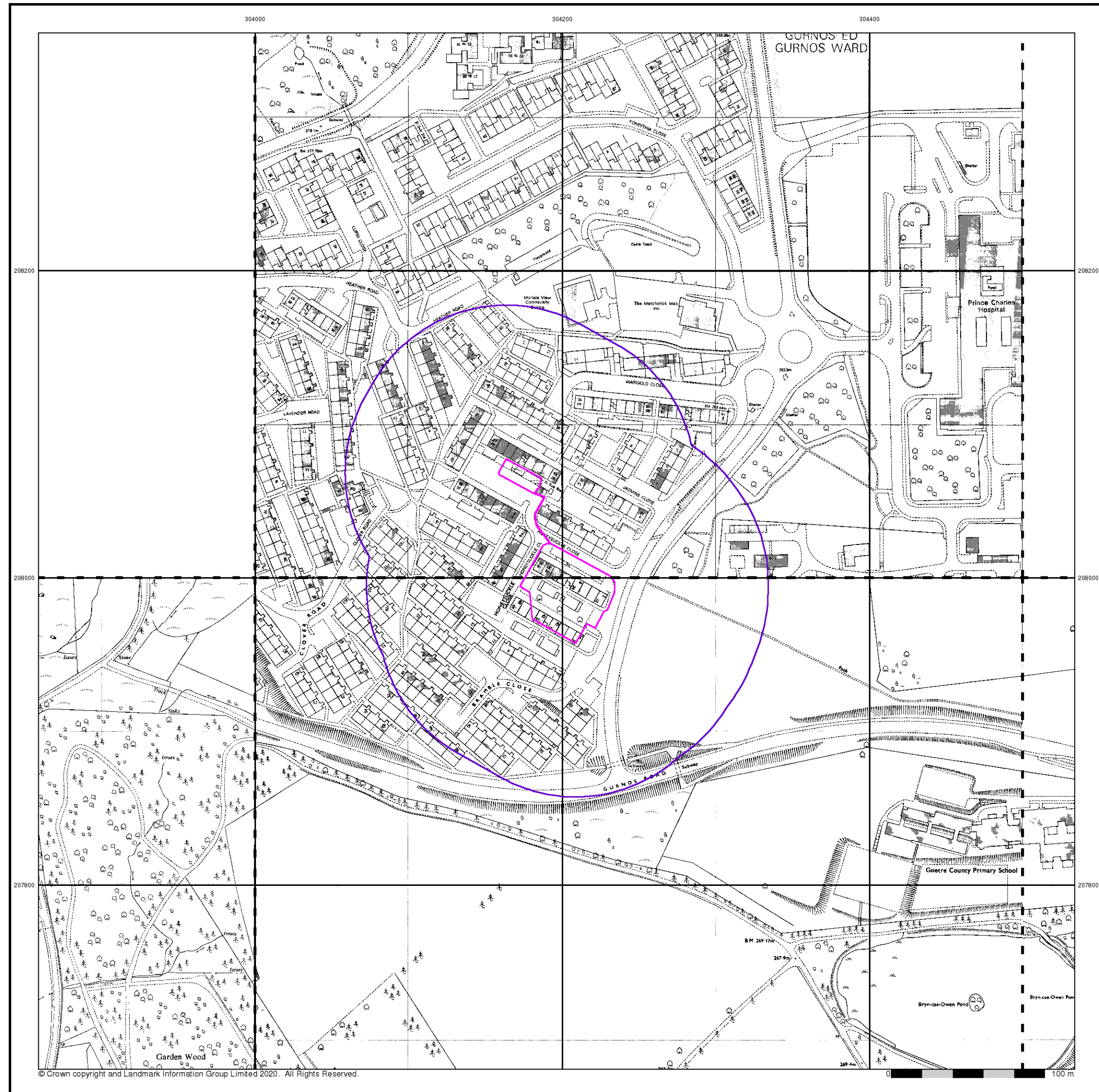
Site Details

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Ordnance Survey Plan

Published 1963 - 1989

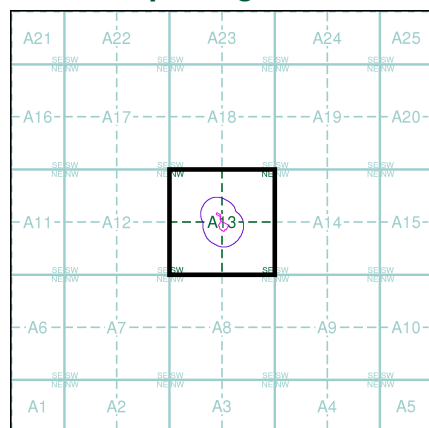
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SO0408SW 1989 1:1,250		
SO0307NE 1963 1:1,250	SO0407NW 1973 1:1,250	SO0407NE 1970 1:1,250

Historical Map - Segment A13



Order Details

Order Number: 268703332_1_1
Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 100

Site Details

Honeysuckle Close, MERTHYR TYDFIL, CF47 9DD

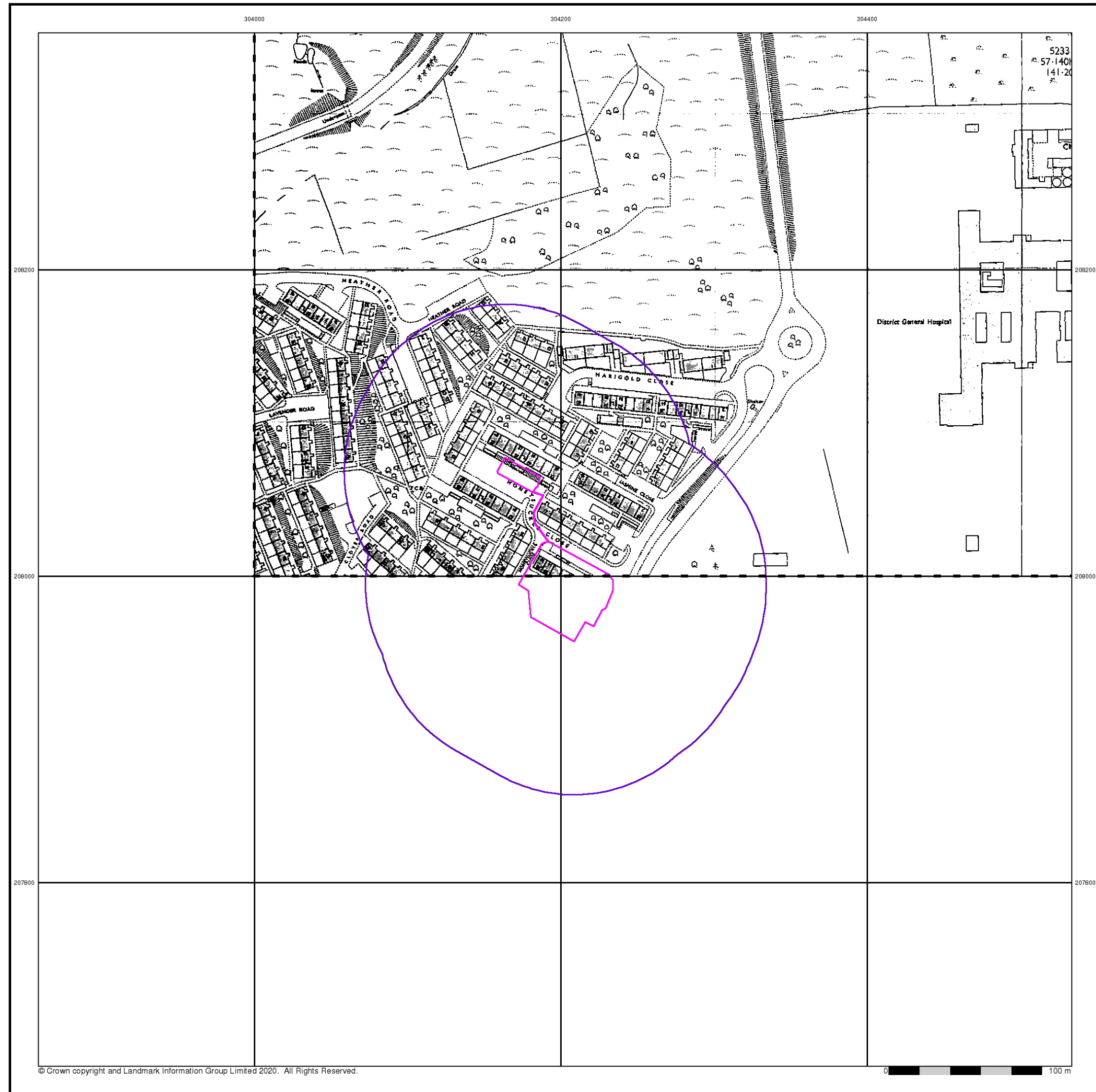


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Additional SIMs

Published 1964

Source map scale - 1:2,500

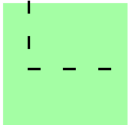
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

Map Name(s) and Date(s)

SO0408

1964

1:2,500



Historical Map - Segment A13

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



Order Details

Order Number: 268703332_1_1

Customer Ref: 16396RH

National Grid Reference: 304190, 208020

Slice: A

Site Area (Ha): 0.28

Search Buffer (m): 100

Site Details

Honeysuckle Close, MERTHYR TYDFIL, CF47 9DD



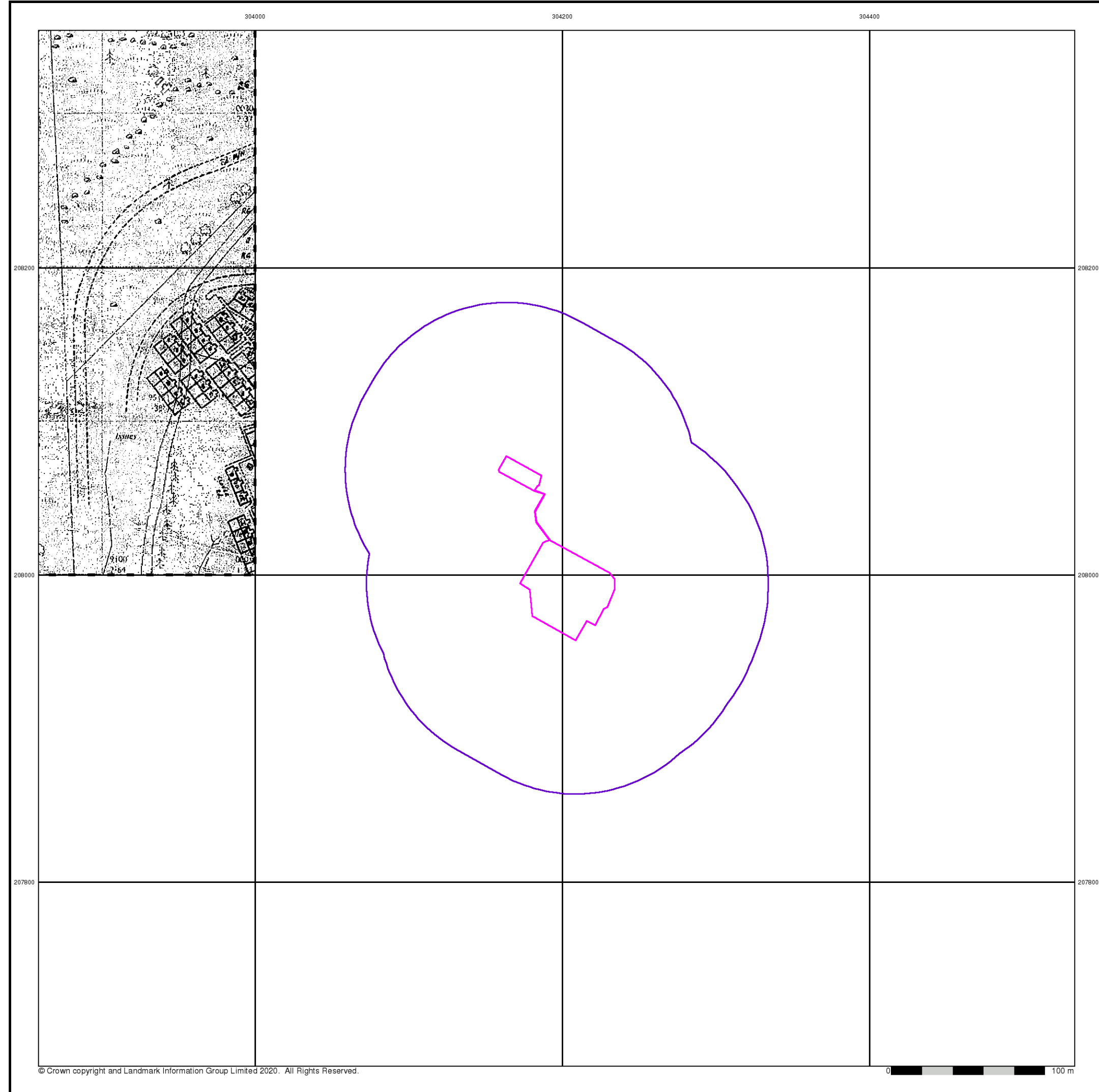
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Geotechnical & Geoenvironmental Specialists

Supply of Unpublished Survey Information

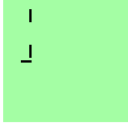
Published 1973

Source map scale - 1:2,500

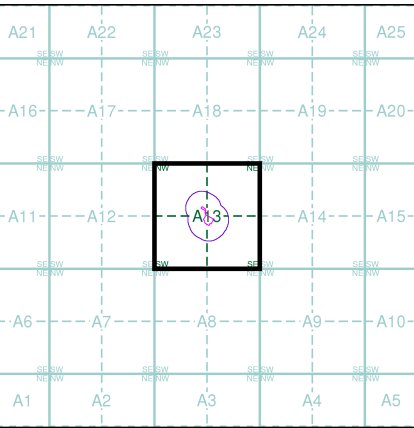
SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment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

Map Name(s) and Date(s)

SO0308
1973
1:2,500



Historical Map - Segment A13



Order Details

Order Number:	268703332_1_1
Customer Ref:	16396RH
National Grid Reference:	304190, 208020
Slice:	A
Site Area (Ha):	0.28
Search Buffer (m):	100

Site Details

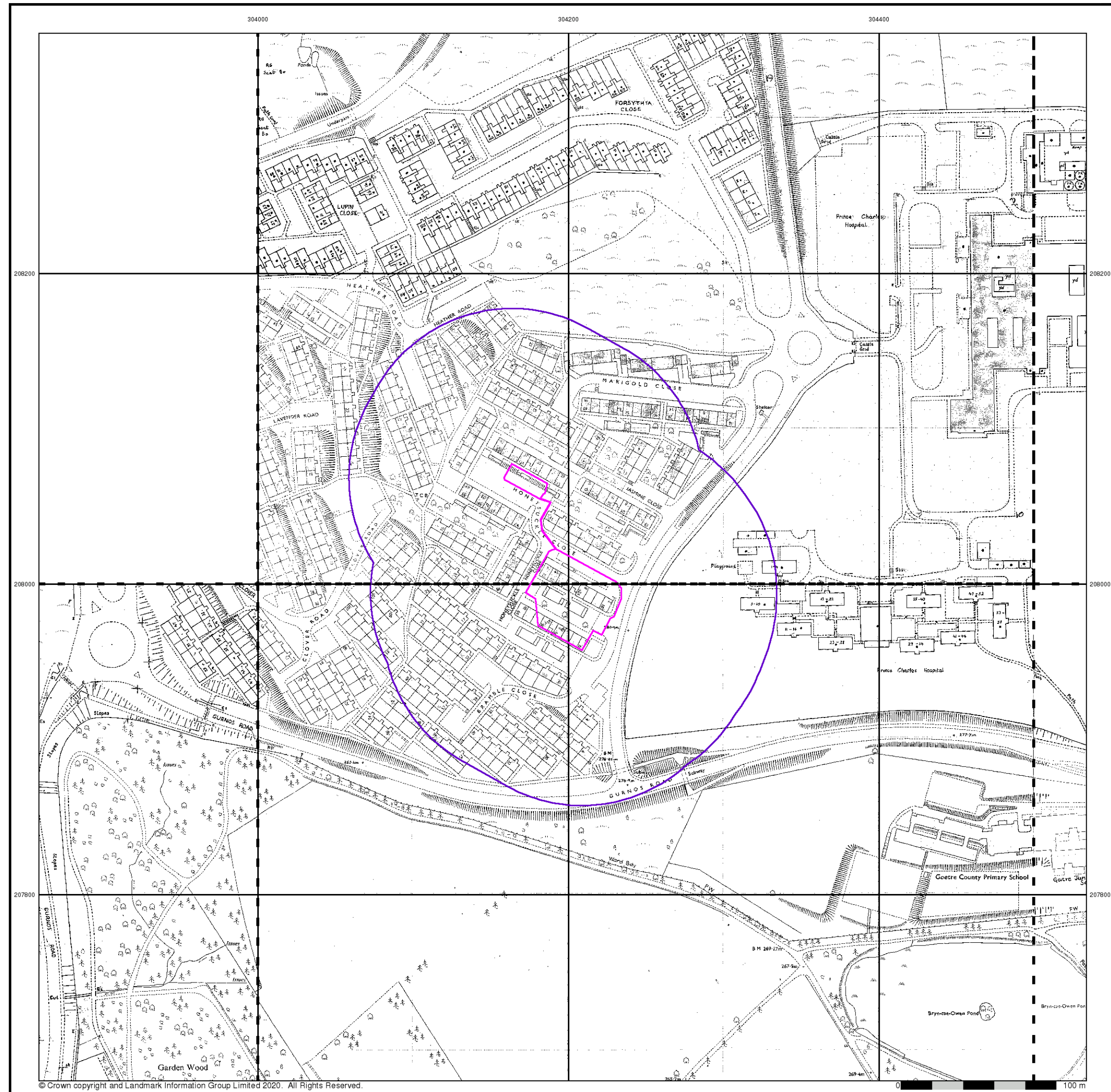
Honeysuckle Close, MERTHYR TYDFIL, CF47 9DD



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Additional SIMs

Published 1977 - 1986

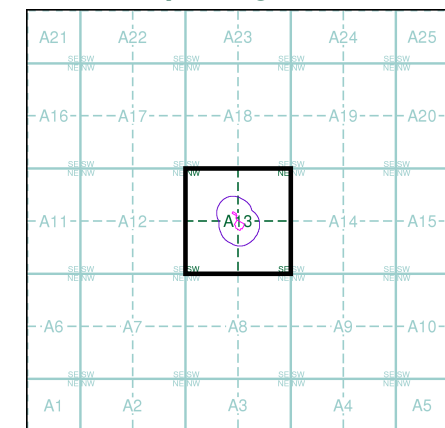
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

	SO0408SW 1977 1:1,250	SO0408SE 1977 1:1,250
SO0307NE 1977 1:1,250	SO0407NW 1984 1:1,250	SO0407NE 1986 1:1,250

Historical Map - Segment A13



Order Details

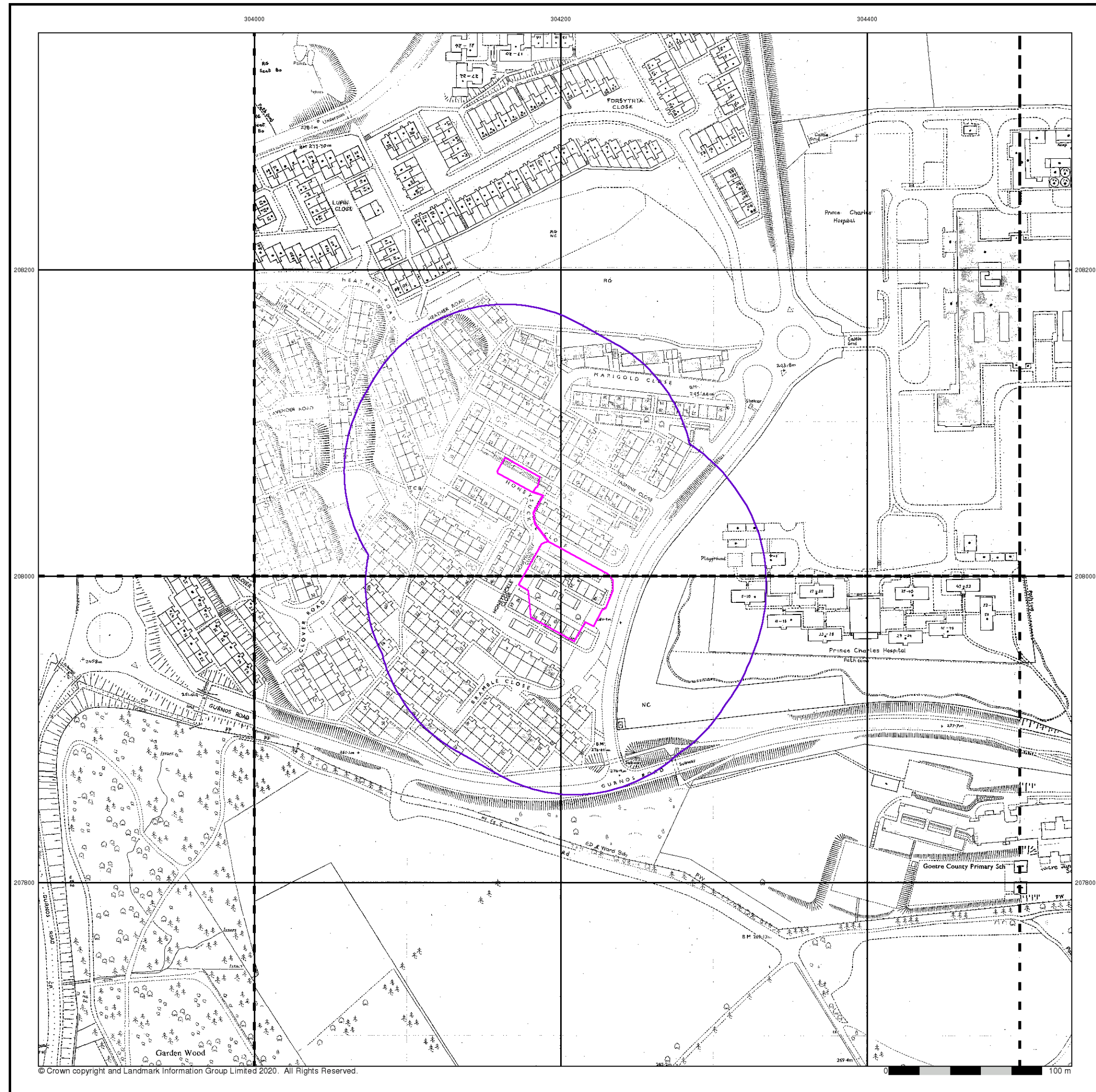
Order Number: 268703332_1_1
Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 100

Site Details

Honeysuckle Close, MERTHYR TYDFIL, CF47 9DD



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Additional SIMs

Published 1981 - 1990

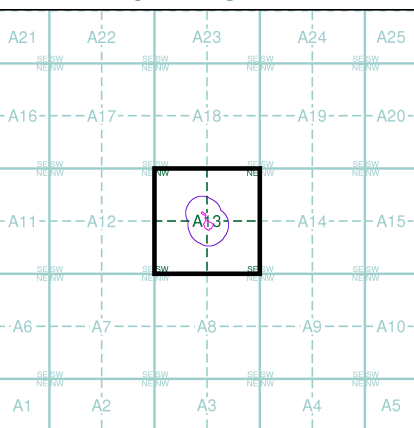
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SO0408SW 1981 1:1,250	SO0408SE 1984 1:1,250	
SO0307NE 1984 1:1,250	SO0407NW 1990 1:1,250	SO0407NE 1990 1:1,250

Historical Map - Segment A13



Order Details

Order Number: 268703332_1_1
Customer Ref: 16396RH
National Grid Reference: 304190, 208020
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A Landmark Information Group Service v50.0 23-Nov-2020 Page 13 of 19



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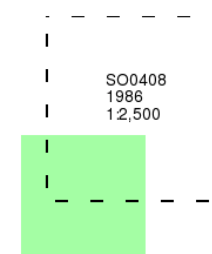
Ordnance Survey Plan

Published 1986

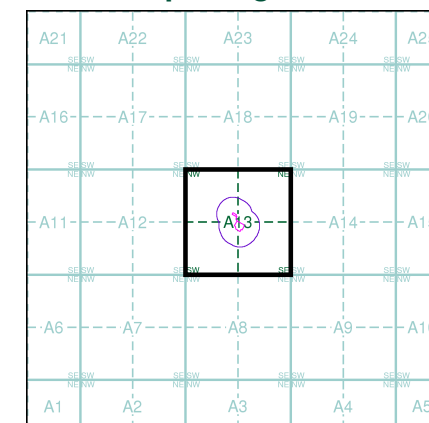
Source map scale - 1:2,500

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

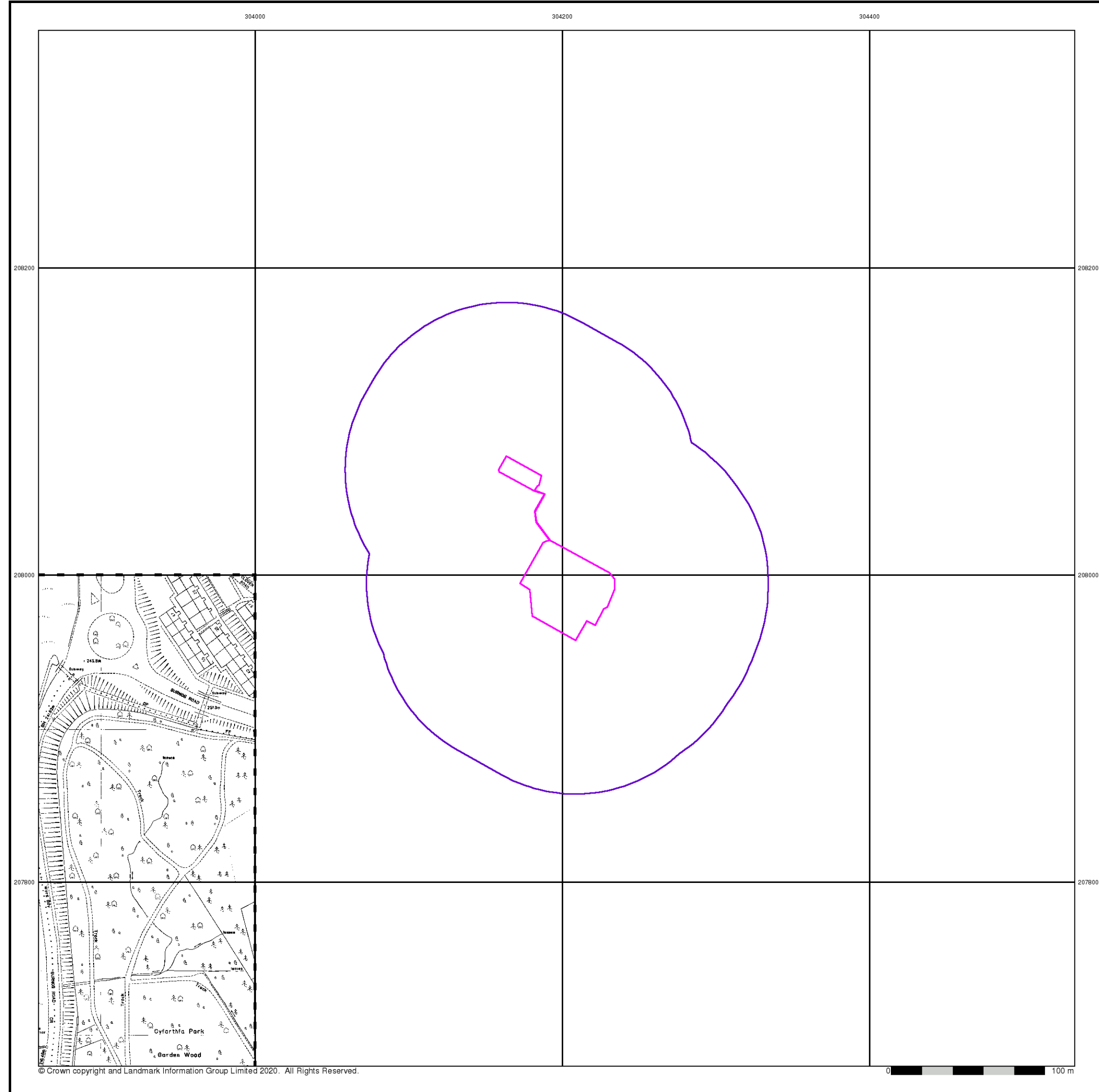
Order Number: 268703332_1_1
Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 100

Site Details

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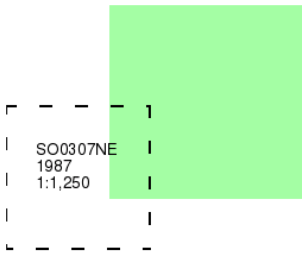
Ordnance Survey Plan

Published 1987

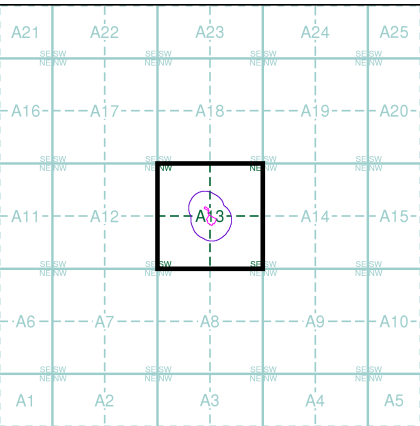
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

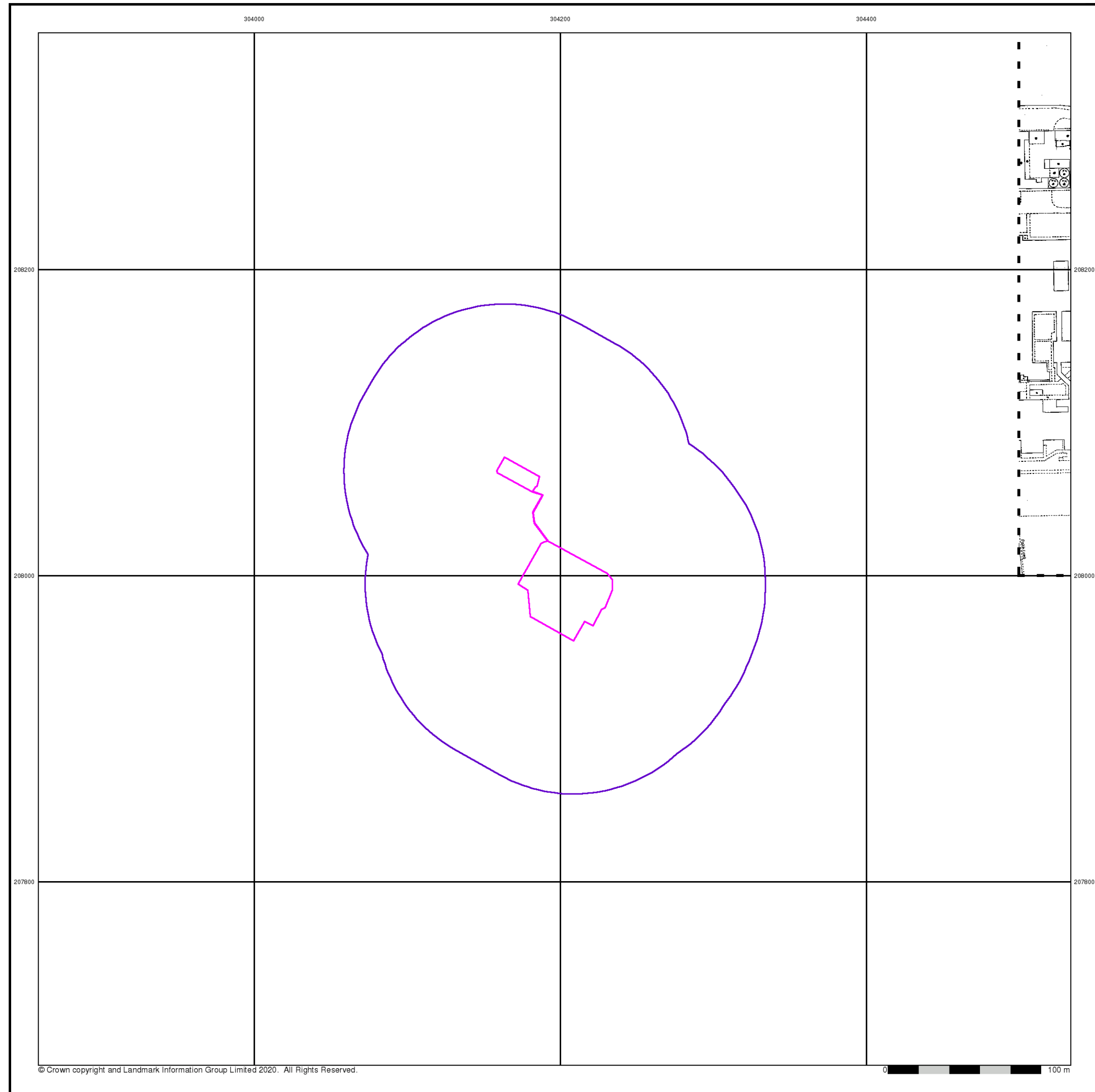
Order Number: 268703332_1_1
Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
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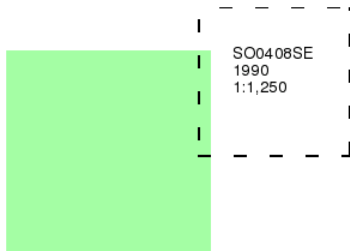
Additional SIMs

Published 1990

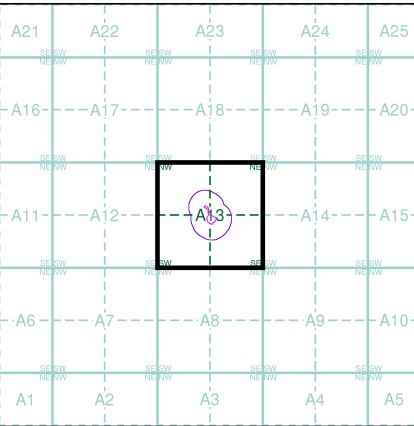
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 268703332_1_1
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National Grid Reference: 304190, 208020
Slice: A
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Large-Scale National Grid Data

Published 1993

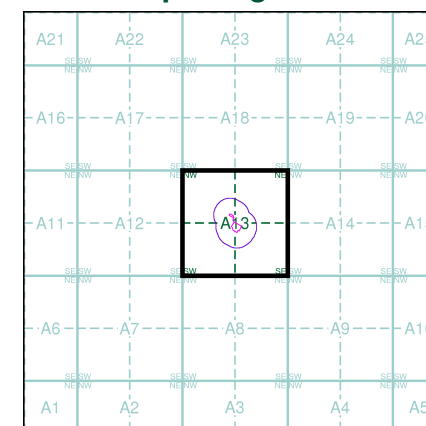
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SO0308SE 1993 1:1,250	SO0408SW 1993 1:1,250	SO0408SE 1993 1:1,250
SO0307NE 1993 1:1,250	SO0407NW 1993 1:1,250	SO0407NE 1993 1:1,250

Historical Map - Segment A13



Order Details

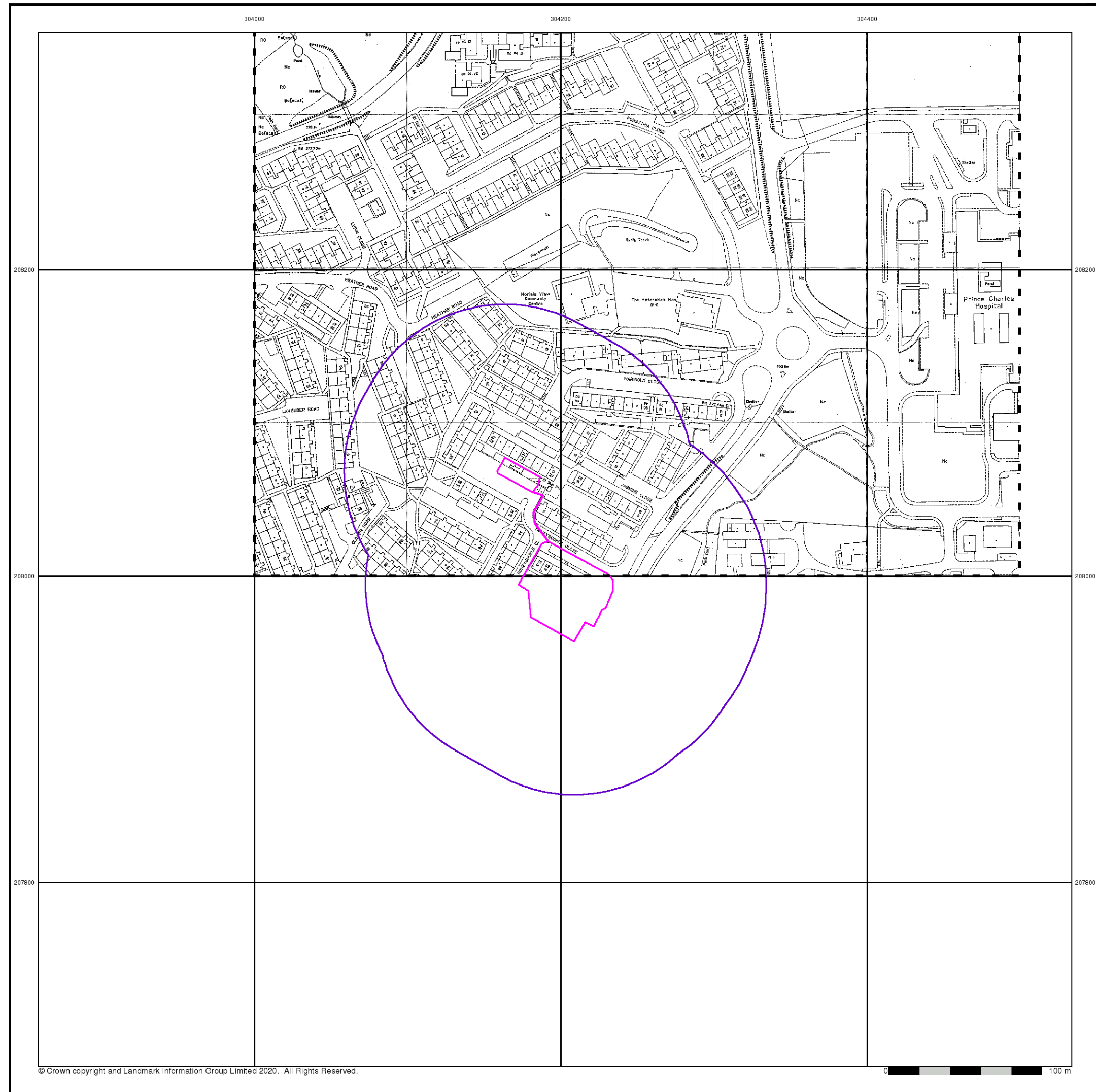
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Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 100

Site Details

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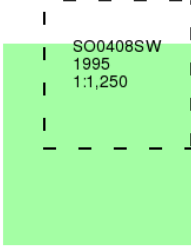
Large-Scale National Grid Data

Published 1995

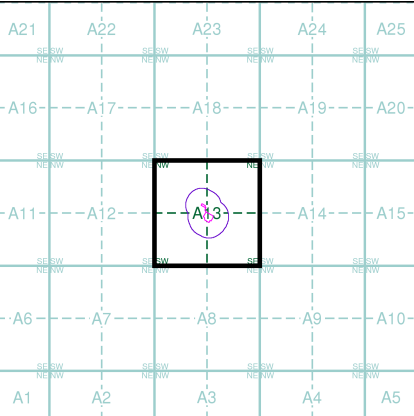
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	268703332_1_1
Customer Ref:	16396RH
National Grid Reference:	304190, 208020
Slice:	A
Site Area (Ha):	0.28
Search Buffer (m):	100

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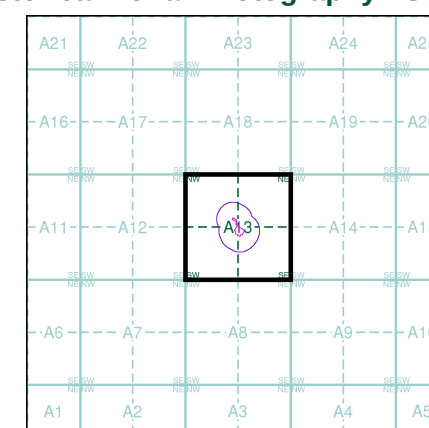
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Historical Aerial Photography

Published 2001

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

Historical Aerial Photography - Segment A13



Order Details

Order Number: 268703332_1_1
Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 100

Site Details

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	•285 Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		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
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	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

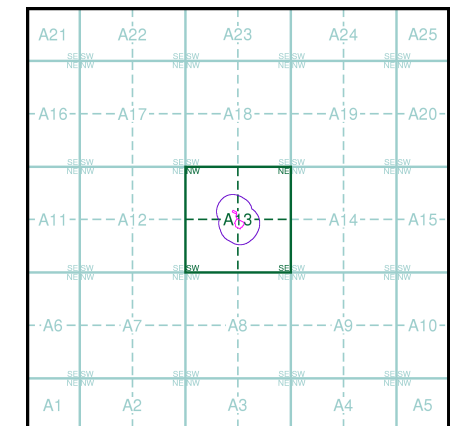


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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:10,560	1883 - 1885	2
Monmouthshire	1:10,560	1884	3
Brecknockshire	1:10,560	1884 - 1885	4
Glamorganshire	1:10,560	1901	5
Brecknockshire	1:10,560	1905	6
Brecknockshire	1:10,560	1921 - 1922	7
Brecknockshire	1:10,560	1938 - 1952	8
Historical Aerial Photography	1:10,560	1945	9
Brecknockshire	1:10,560	1951 - 1952	10
Ordnance Survey Plan	1:10,000	1965	11
Ordnance Survey Plan	1:10,000	1977 - 1979	12
Ordnance Survey Plan	1:10,000	1983	13
Ordnance Survey Plan	1:10,000	1992	14
10K Raster Mapping	1:10,000	1999	15
10K Raster Mapping	1:10,000	2006	16
VectorMap Local	1:10,000	2020	17

Historical Map - Slice A



Order Details

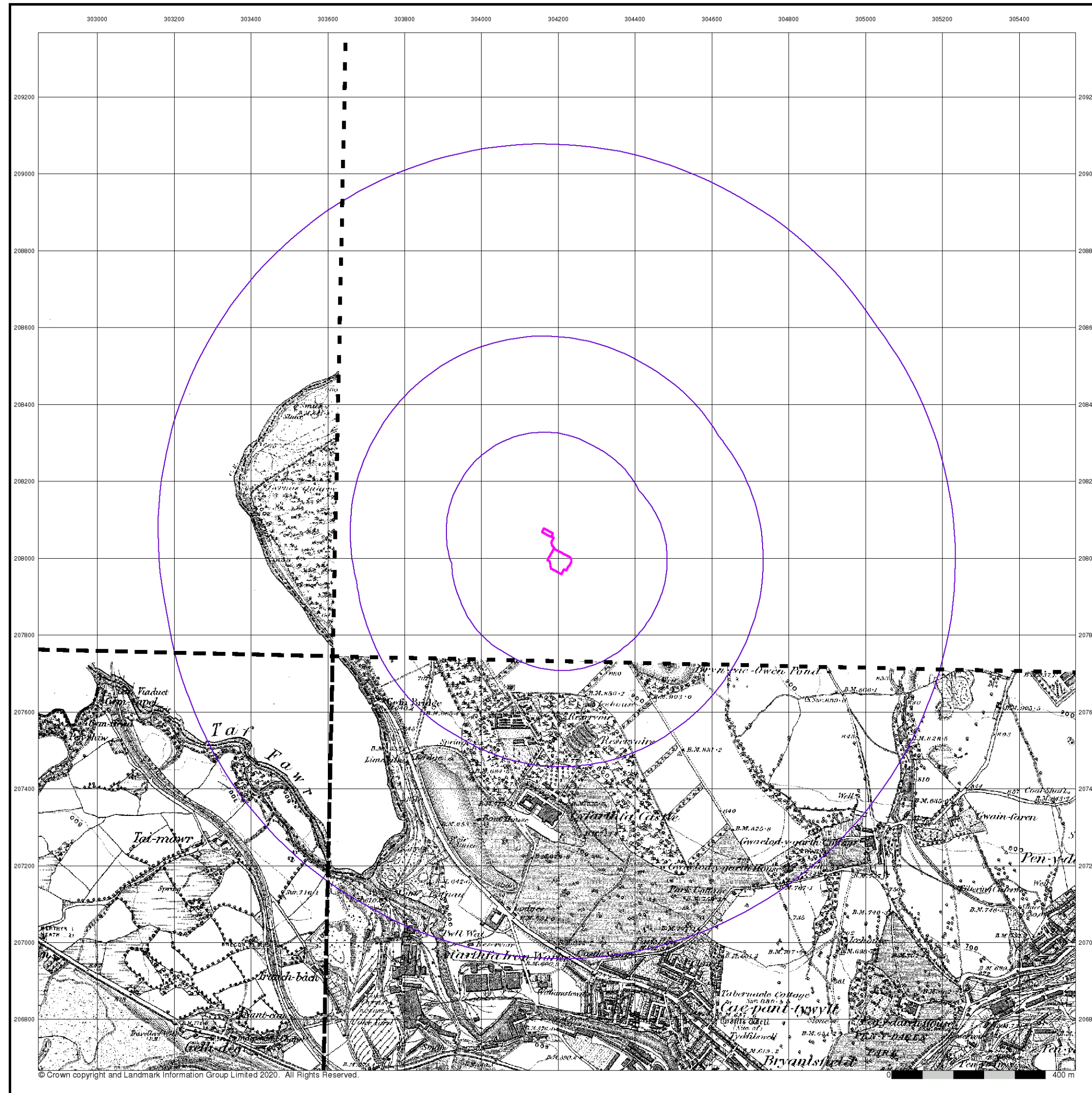
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Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 1000

Site Details

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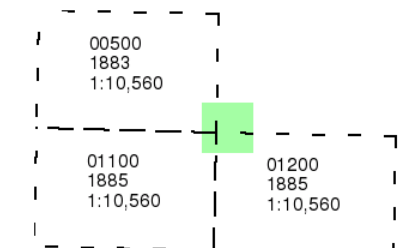
Glamorganshire

Published 1883 - 1885

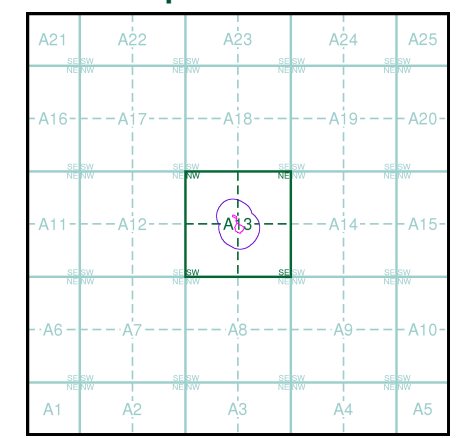
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

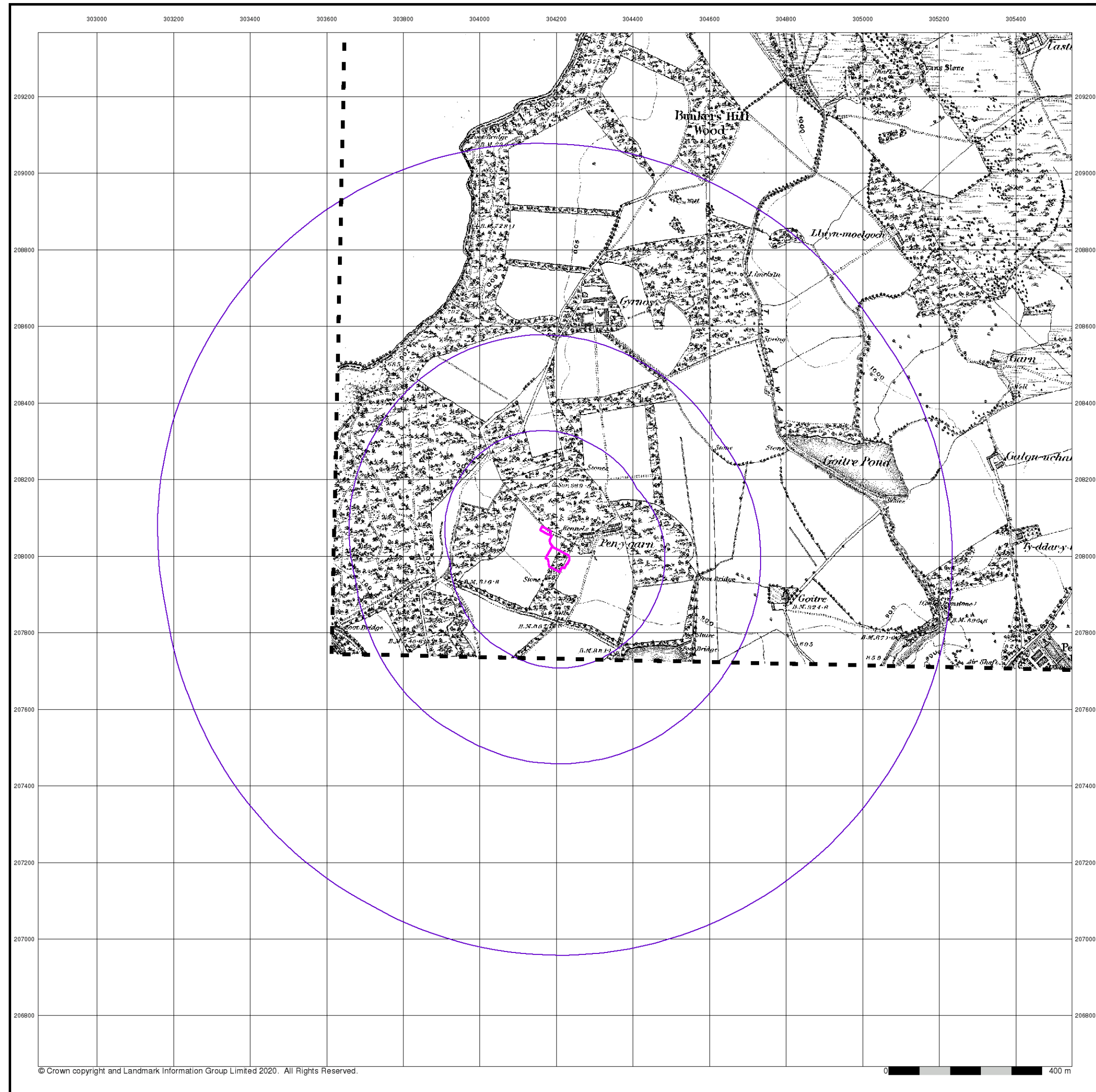
Order Number: 268703332_1_1
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Site Area (Ha): 0.28
Search Buffer (m): 1000

Site Details

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Monmouthshire

Published 1884

Source map scale - 1:10,560

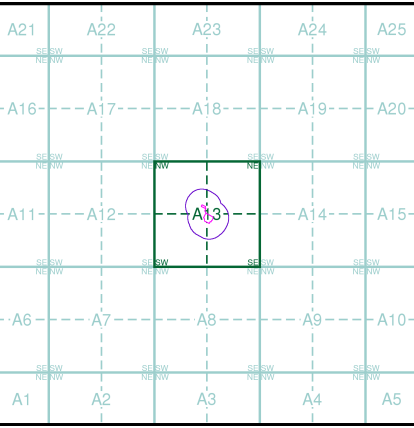
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

Map Name(s) and Date(s)

01000
1884
1:10,560



Historical Map - Slice A



Order Details

Order Number:	268703332_1_1
Customer Ref:	16396RH
National Grid Reference:	304190, 208020
Slice:	A
Site Area (Ha):	0.28
Search Buffer (m):	1000

Site Details

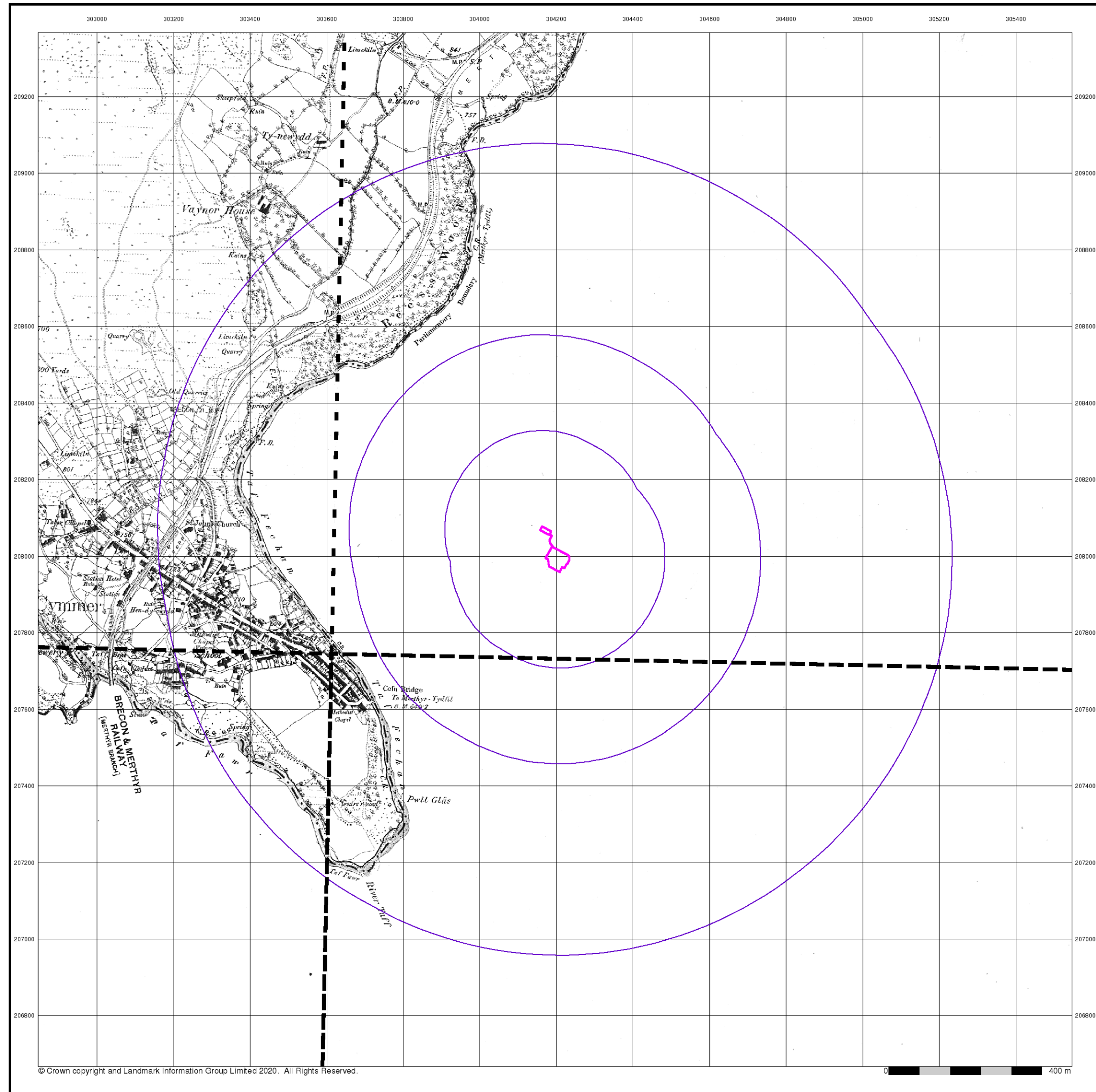
Honeysuckle Close, MERTHYR TYDFIL, CF47 9DD



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Geotechnical & Geoenvironmental Specialists

Brecknockshire

Published 1884 - 1885

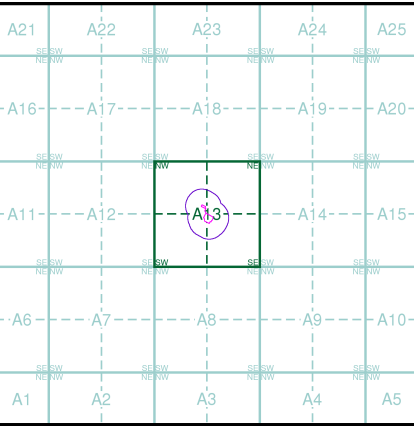
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

045SE 1884 1:10,560	046SW 1885 1:10,560
050NE 1884 1:10,560	051NW 1884 1:10,560

Historical Map - Slice A



Order Details

Order Number: 268703332_1_1
Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 1000

Site Details

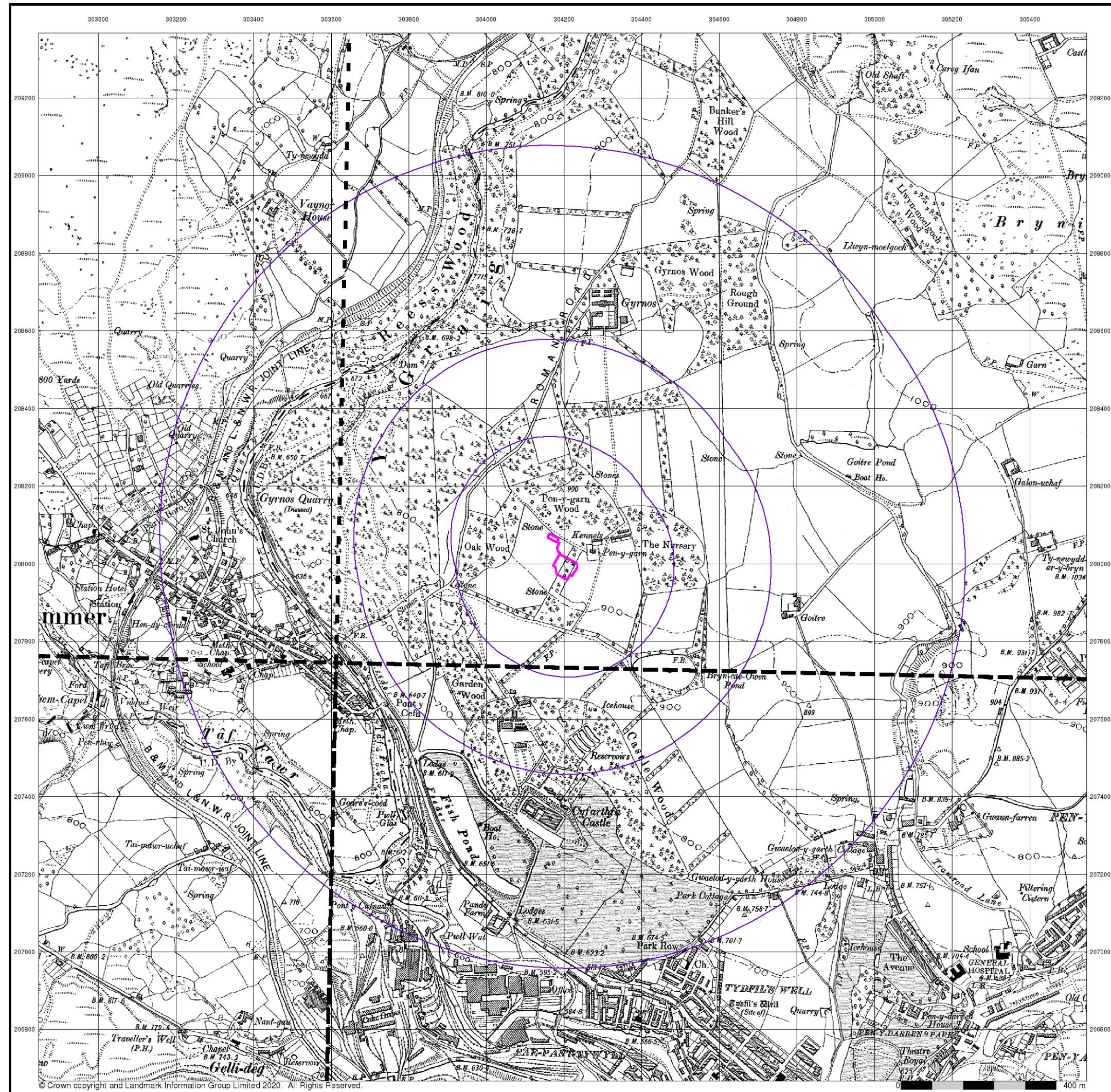
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Geotechnical & Geoenvironmental Specialists

Glamorganshire

Published 1901

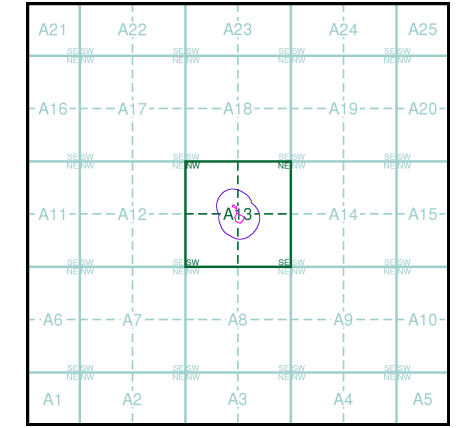
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

005SE 1901 1:10,560	006SW 1901 1:10,560
011NE 1901 1:10,560	012NW 1901 1:10,560

Historical Map - Slice A



Order Details

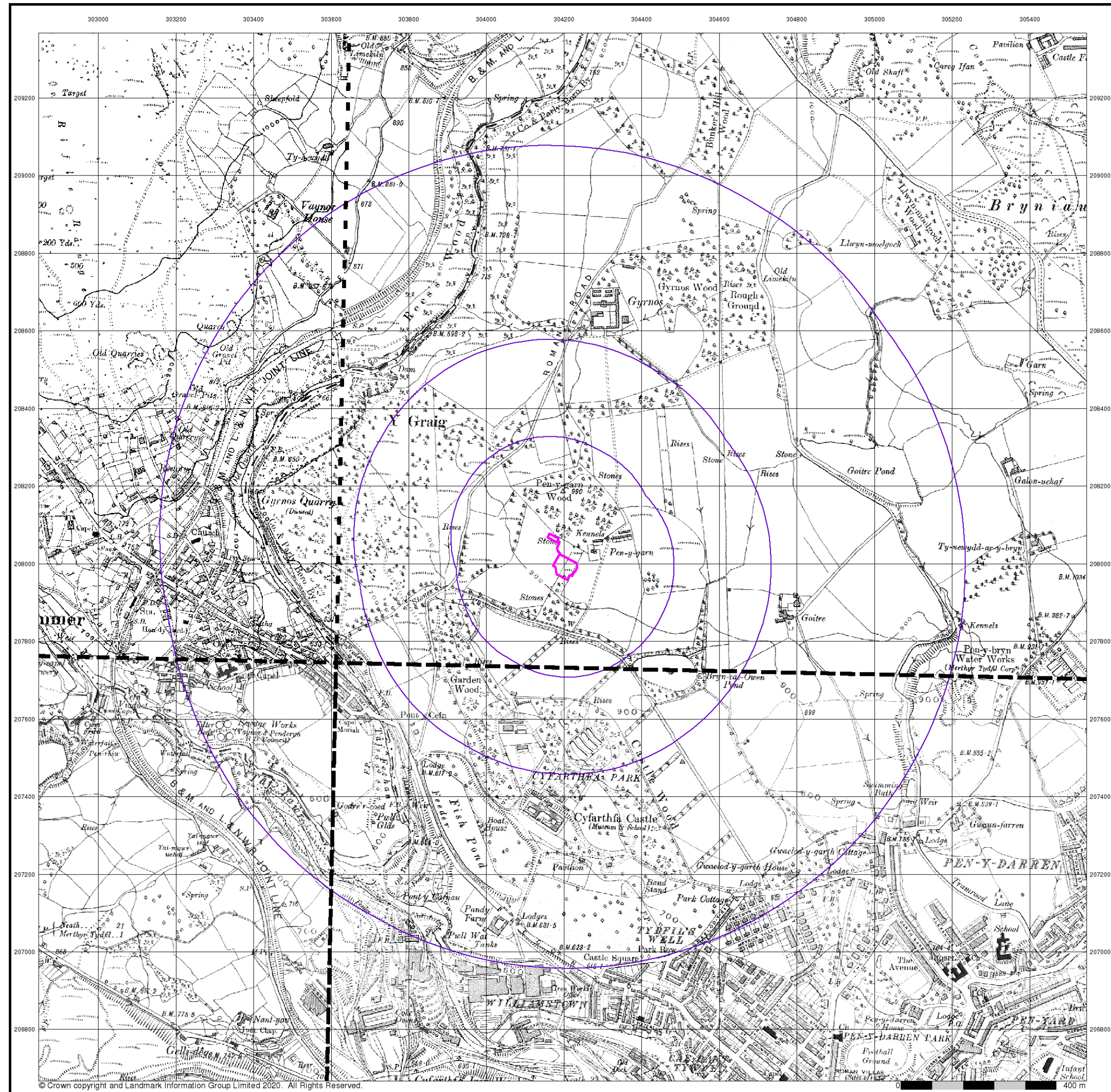
Order Number: 268703332_1_1
Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 1000

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Geotechnical & Geoenvironmental Specialists

Brecknockshire

Published 1921 - 1922

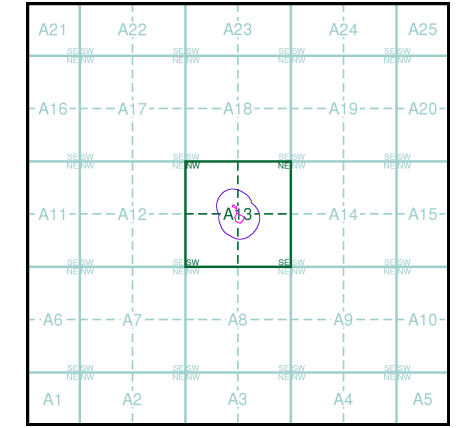
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

04500	046SW
1922	1922
1:10,560	1:10,560
050NE	051NW
1921	1922
1:10,560	1:10,560

Historical Map - Slice A



Order Details

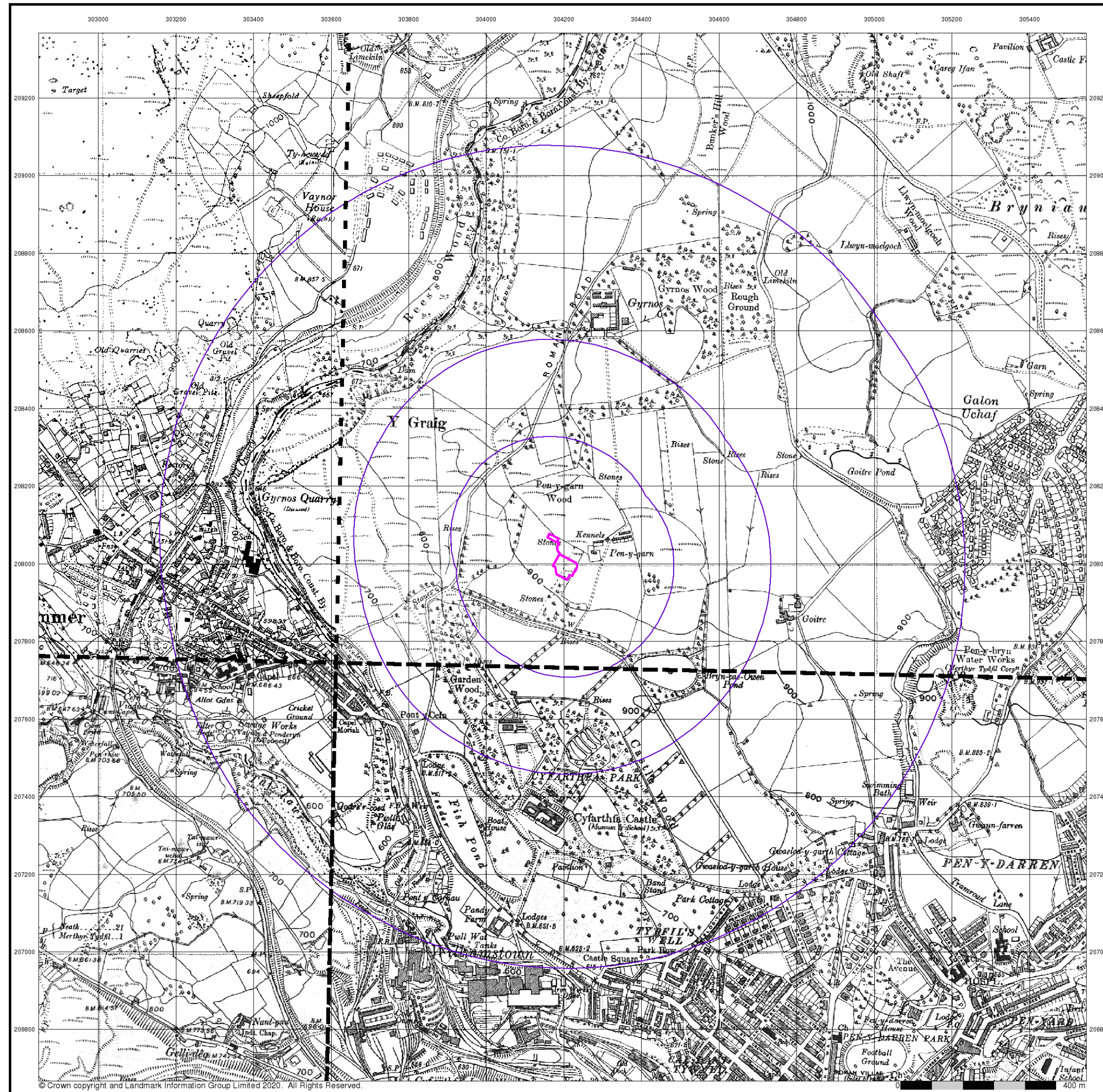
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Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 1000

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Geotechnical & Geoenvironmental Specialists

Brecknockshire

Published 1938 - 1952

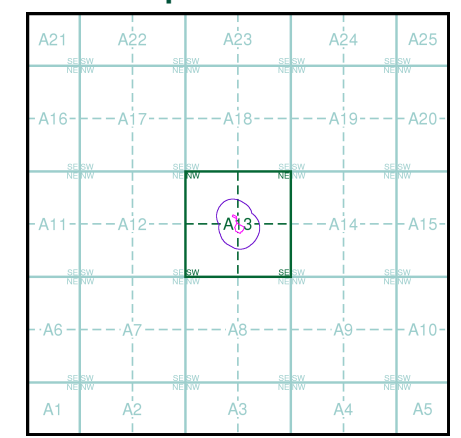
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

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1:10,560	1:10,560
050NE	051NW
1951	1938
1:10,560	1:10,560

Historical Map - Slice A



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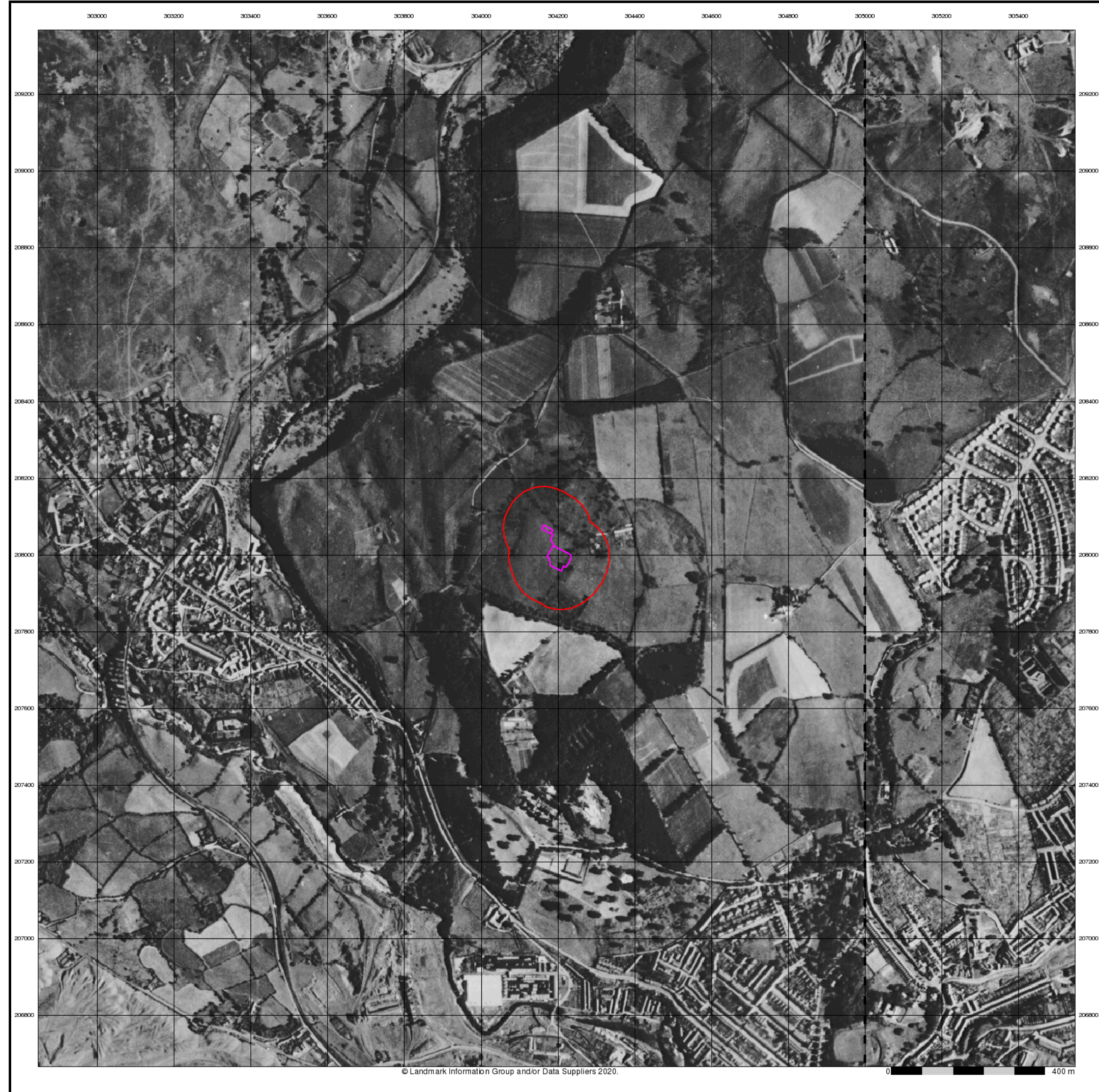
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Slice: A
Site Area (Ha): 0.28
Search Buffer (m): 1000

Site Details

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Historical Aerial Photography

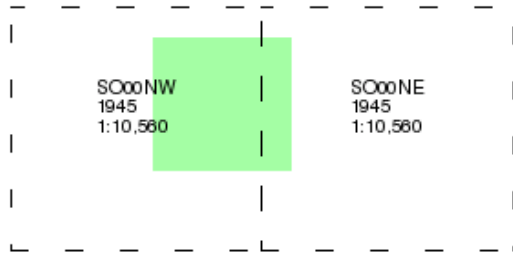
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Source map scale - 1:10,560

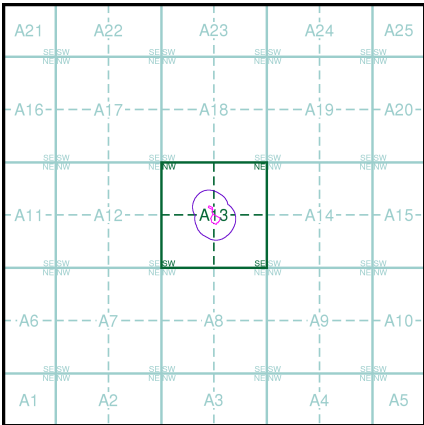
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the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

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Map Name(s) and Date(s)



Historical Aerial Photography - Slice A



Order Details

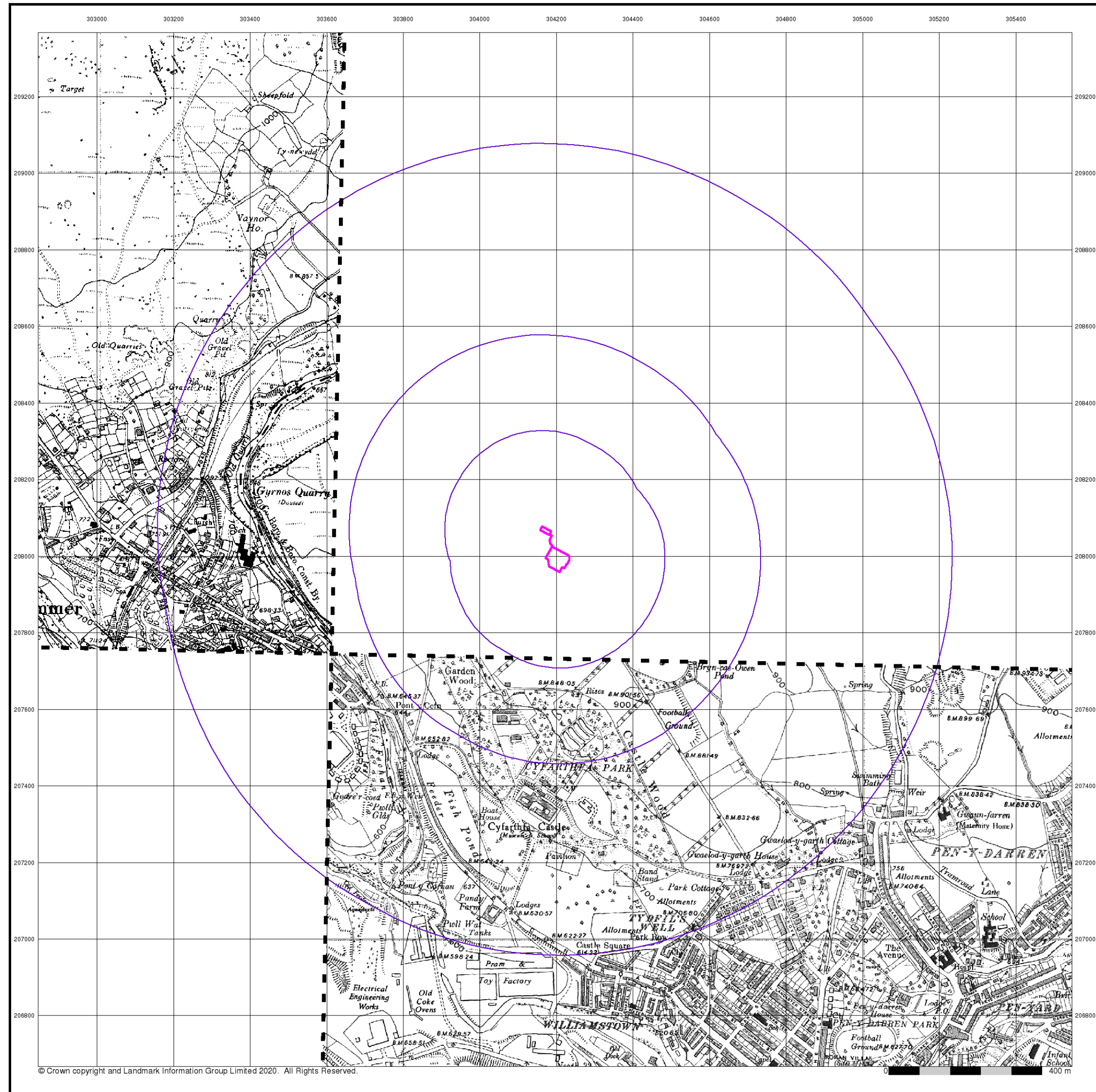
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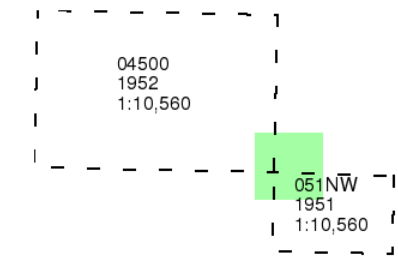
Brecknockshire

Published 1951 - 1952

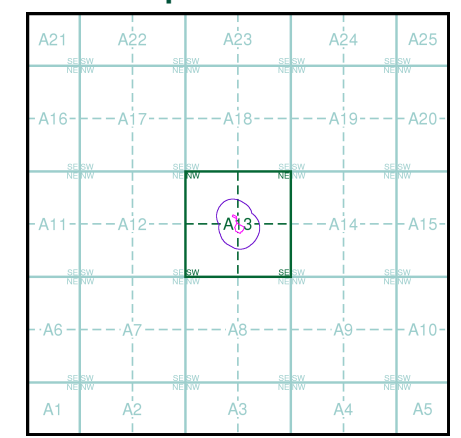
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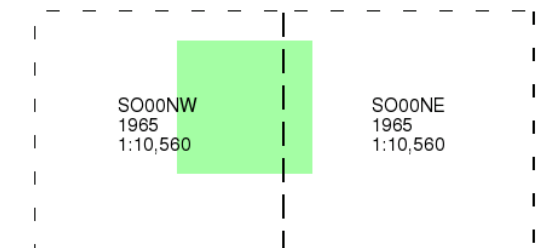
Ordnance Survey Plan

Published 1965

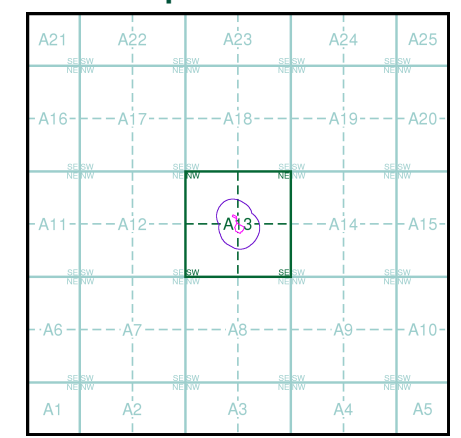
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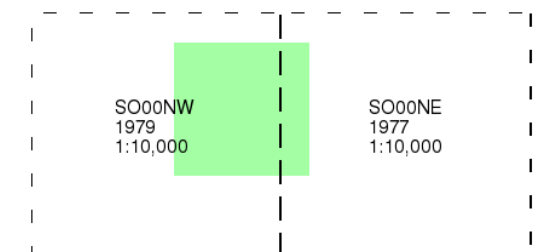
Ordnance Survey Plan

Published 1977 - 1979

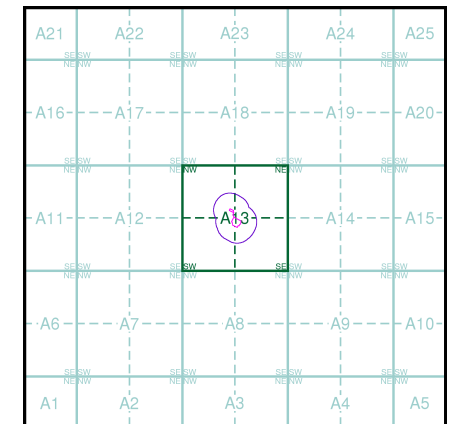
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Order Details

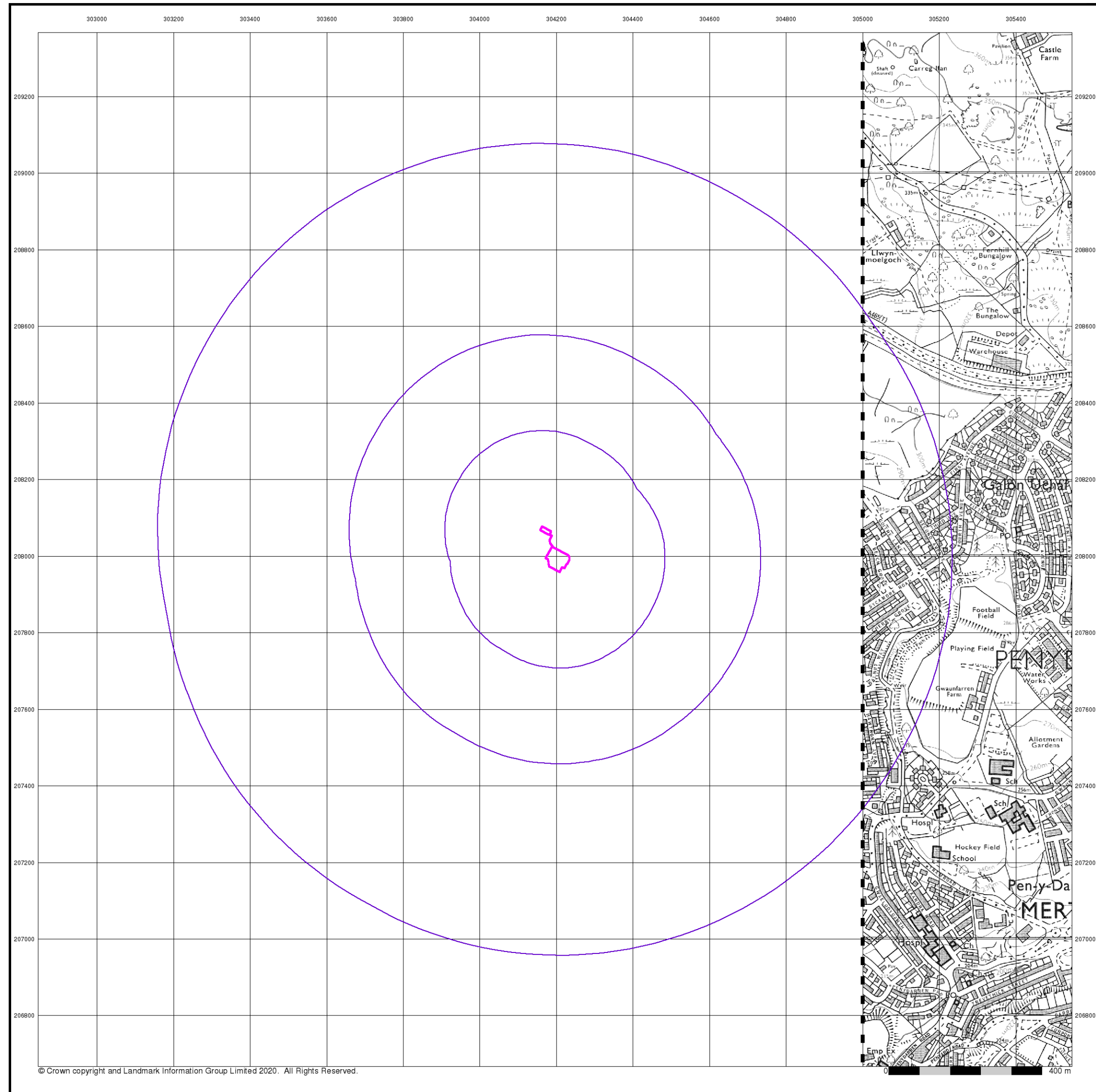
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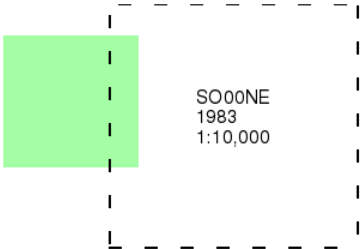
Ordnance Survey Plan

Published 1983

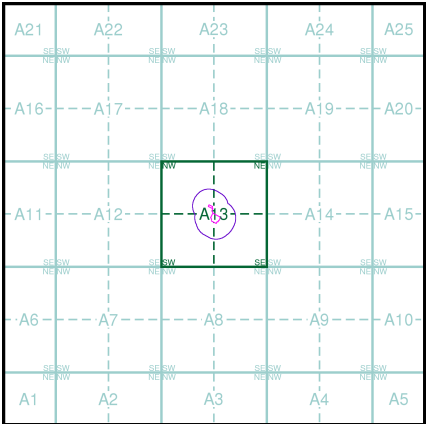
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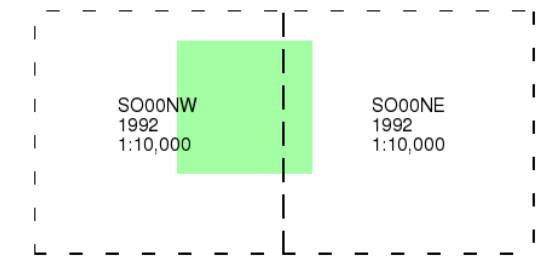
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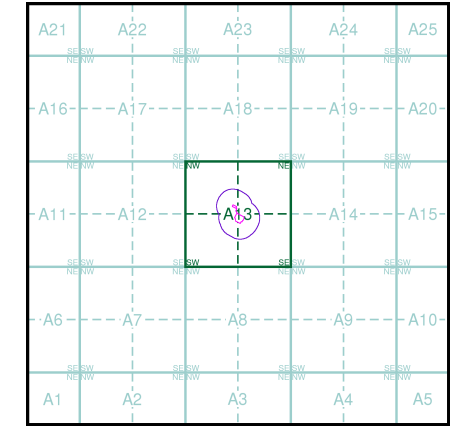
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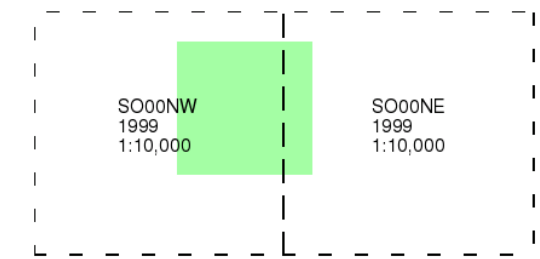
10k Raster Mapping

Published 1999

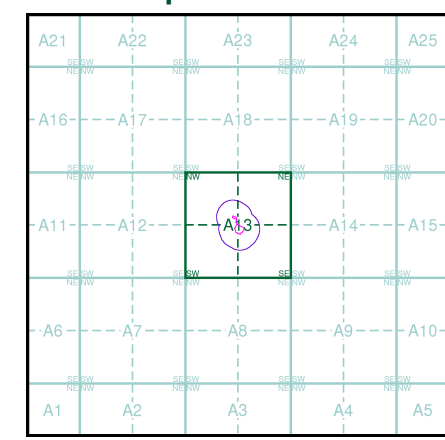
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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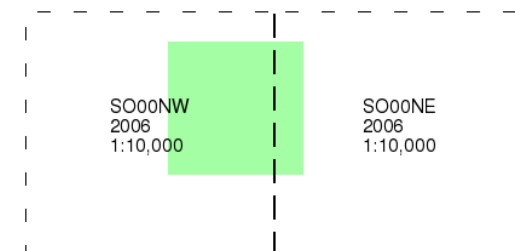
10k Raster Mapping

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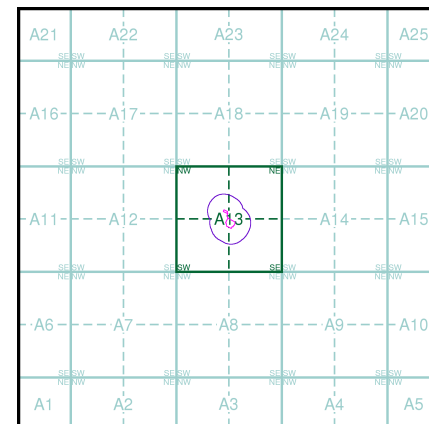
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Map Name(s) and Date(s)



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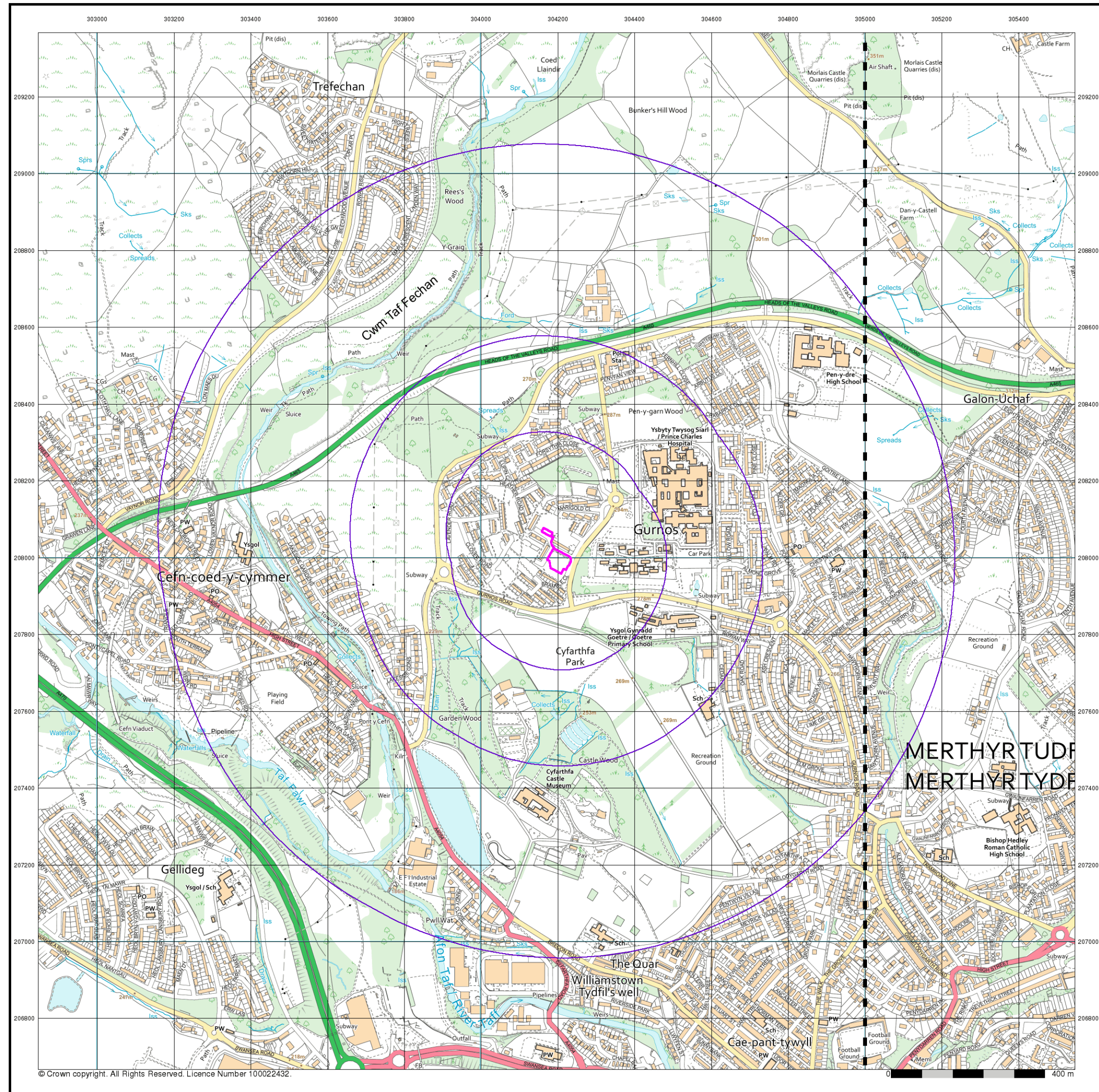
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Customer Ref: 16396RH
National Grid Reference: 304190, 208020
Slice: A
Site Area (Ha): 0.28
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INFORMATION GROUP

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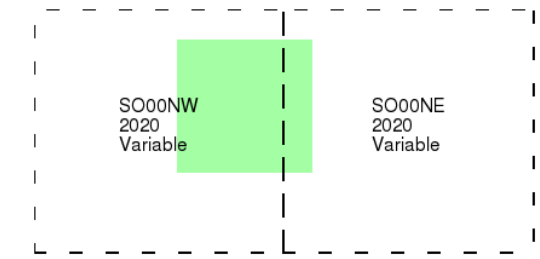
VectorMap Local

Published 2020

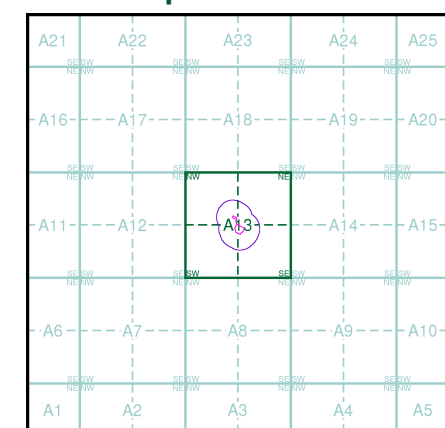
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



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Order Number: 268703332_1_1
Customer Ref: 16396RH
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**ANNEX B
Coal Mining Report**



The Coal
Authority

CON29M

coal mining report

HONEYSUCKLE CLOSE, MERTHYR TYDFIL, MERTHYR TYDFIL, CF47 9DD



Known or potential coal mining risks

Future underground coal mining

Page 3



Further action

No further reports from the Coal Authority are required. Further information on any next steps can be found in our Professional opinion.

For more information on our reports please visit
www.groundstability.com



Professional opinion

According to the official mining information records held by the Coal Authority at the time of this search, evidence of, or the potential for, coal mining related features have been identified. It is unlikely that these features will impact on the stability of the enquiry boundary.

Your reference: **268703332_2**
Our reference: **51002321888001**
Date: **24 November 2020**

Client name:
NLIS Hub

If you require any further assistance please
contact our experts on:
0345 762 6848
groundstability@coal.gov.uk

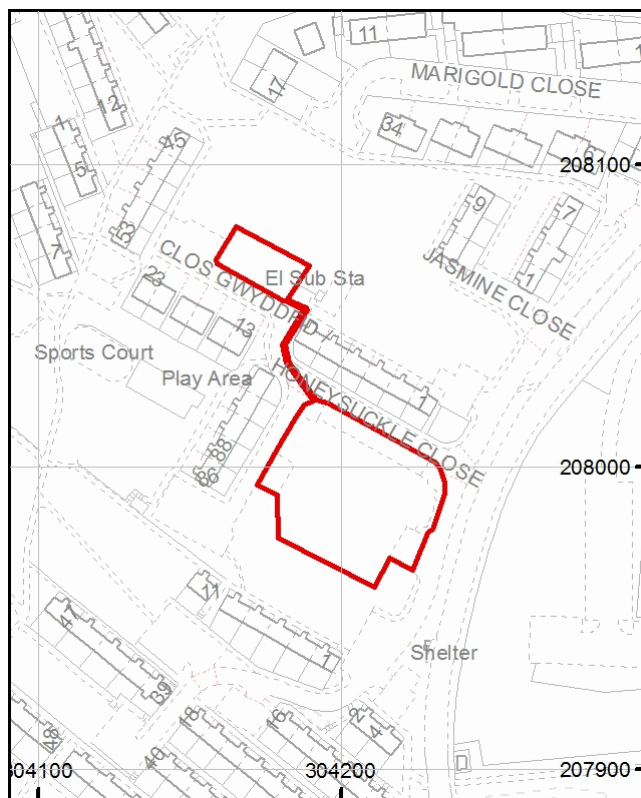


The Law
Society

Enquiry boundary

Key

Approximate position of enquiry boundary shown



We can confirm that the location is
on the coalfield



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This report is prepared in accordance with the latest Law Society's Guidance Notes 2018, the User Guide 2018 and the Coal Authority's Terms and Conditions applicable at the time the report was produced.



Accessibility

If you would like this information in an alternative format, please contact our communications team on 0345 762 6848 or email communications@coal.gov.uk.

Detailed findings

Information provided by the Coal Authority in this report is compiled in response to the Law Society's CON29M Coal Mining enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL.

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1 Past underground coal mining

The property is not within a surface area that could be affected by any past recorded underground coal mining.

2 Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3 Future underground coal mining

The property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant a licence to remove or work coal by underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

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

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

4 Mine entries

There are no recorded coal mine entries known to the Coal Authority within, or within 20 metres, of the boundary of the property.

5 Coal mining geology

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

6 Past opencast coal mining

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

7 Present opencast coal mining

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

8 Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

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.

9 Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal 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.

10 Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11 Hazards related to coal mining

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

12 Withdrawal of support

The property is not in an area where a notice to withdraw support has been given.

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

13 Working facilities order

The property is not in an area where 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.

14 Payments to owners of former copyhold land

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

Statutory cover



Coal mining subsidence

In the unlikely event of any coal mining related subsidence damage, the Coal Authority or the mine operator has a duty to take remedial action in respect of subsidence caused by the withdrawal of support from land or property in connection with lawful coal mining operations.

When the works are the responsibility of the Coal Authority, our dedicated public safety and subsidence team will manage the claim. The house or land owner ("the owner") is covered for these works under the terms of the Coal Mining Subsidence Act 1991 (as amended by the Coal Industry Act 1994). Please 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.

If you believe your land or property is suffering from coal mining subsidence damage and you need more information on what to do next, please use the following link to our website which sets out what your rights are and what you need to consider before making a claim.

www.gov.uk/government/publications/coal-mining-subsidence-damage-notice-form



Coal mining hazards

Our public safety and subsidence team provide a 24 hour a day, 7 days a week hazard reporting service, to help protect the public from hazards caused by past coal workings, such as a mine shaft or shallow working collapse. To report any hazards please call **01623 646 333**. Further information can be found on our website: www.gov.uk/coalauthority.

Glossary



Key terms

adit - horizontal or sloped entrance to a mine

coal mining subsidence - ground movement caused by the removal of coal by underground mining

Coal Mining Subsidence Act 1991 - the Act setting out the duties of the Coal Authority to repair damage caused by coal mining subsidence

coal mining subsidence damage - damage to land, buildings or structures caused by the removal of coal by underground mining

coal seams - bed of coal of varying thickness

future opencast coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal from the surface

future underground coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal underground. Although it is unlikely, remaining coal reserves could create a possibility for future mining, which would be licensed by the Coal Authority

mine entries - collective name for shafts and adits

payments to owners of former copyhold land - historically, copyhold land gave rights to coal to the copyholder. Legislation was set up to allow others to work this coal, but they had to issue a notice and pay compensation if a copyholder came forward

shaft - vertical entry into a mine

site investigation - investigations of coal mining risks carried out with the Coal Authority's permission

stop notice - a delay to repairs because further coal mining subsidence damage may occur and it would be unwise to carry out permanent repairs

subsidence claim - a formal notice of subsidence damage to the Coal Authority since it was established on 31 October 1994

withdrawal of support - a historic notice informing landowners that the coal beneath their property was going to be worked

working facilities orders - a court order which gave permission, restricted or prevented coal mine workings

ANNEX C
Risk Assessment Definitions

The contaminated land regime is set out in Part 2A of the Environmental Protection Act (EPA) 1990 and was introduced on the 1st April 2000 in England and 1st July 2001 in Wales. A similar regime was introduced in Scotland on 14th July 2000.

Part 2A was introduced to achieve three overarching objectives:

- (a) To identify and remove unacceptable risks to human health and the environment.
- (b) To seek to ensure that contaminated land is made suitable for its current use.
- (c) To ensure that the burdens faced by individuals, companies and society as a whole are proportionate, manageable and compatible with the principles of sustainable development.

Under Part 2A the statutory definition of 'contaminated land' is:

"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."

Under Part 2A, for land to be classified as 'Contaminated Land' there must be one or more contaminant, pathway, receptor linkages, known as the '**Pollutant Linkage**'. A pollutant linkage requires three essential elements:

- (a) A **CONTAMINANT** (SOURCE) – a substance that is in, on or under the land and has the potential to cause harm or to cause pollution of controlled waters.
- (b) A **RECEPTOR** – something which could be adversely affected by a contaminant.
- (c) A **PATHWAY** – a route by which a receptor is or might be exposed to or affected by a contaminant.

The term 'Risk' is widely used in different contexts and situations, but a prescriptive definition is given by the Guidelines for Environmental Risk Assessment and Management (DEFRA *et al*, 2000):

'Risk is a combination of the probability, or frequency, of occurrence of a defined hazard and the magnitude of the consequences of the occurrence'.

Model Procedures for the Management of Land Contamination – Contamination Land Report 11 (2004) defines a 'Hazard' as

'a property or situation that in particular circumstances could lead to harm'.

A framework for qualitative risk assessment is provided in CIRIA publication C552 Contaminated Land Risk Assessment – A Guide to Good Practice (2001). The method requires an assessment of the magnitude of the probability of the risk occurring and the magnitude of the potential consequence. Classifications of consequences and probability, levels and descriptions of risk have been devised from the above publication and are defined in the following sections.

Classification of Consequence

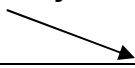
Table A Classification of Consequence	
Classification	Definition
Severe	• Short term (acute) risk to human health likely to result in significant harm • Short term risk to controlled waters • Catastrophic damage to buildings/structures • Short term risk to an ecosystem or organism within the particular ecosystem
Medium	• Chronic damage to human health (long term risk) • Pollution of a sensitive water resource • A significant change in an ecosystem or organism within the ecosystem
Mild	• Pollution of non-sensitive water resources • Significant damage to buildings/structures • Damage to sensitive buildings/structure/services or the environment
Negligible	• Harm (not necessarily significant) which may result in financial loss • Non-permanent health effects to humans (easily prevented by PPE for example) • Easily repairable effects of structural (building) damage

Classification of Probability

Table B Classification of Probability	
Classification	Definition
High Likelihood	• There is a complete pollution linkage and an event appears very likely to occur in the short term and is inevitable in the long term. • Evidence of harm to the receptor
Likely	• There is a complete pollution linkage which means that it is probable that an event will occur • The event is not inevitable but possible in short term and likely in the long term
Low Likelihood	• There is a complete pollution linkage and circumstances are possible under which an event could occur • It is not certain that an event will occur in the long term, and it is less likely to occur in the short term
Unlikely	• There is a complete pollution linkage but circumstances are such that it is improbable that an event would occur even in the long term

Risk Assessment Matrix

By comparing the consequences of a risk and the probability of the risk of a pollution linkage, the likely risk category can be determined as shown in **Table C** below.

Table C Risk Assessment Matrix					
Increasing acceptability 		Consequence			
		Severe	Medium	Mild	Negligible
Probability	High Likelihood	High risk	High risk	Medium risk	Low risk
	Likely	High risk	Medium risk	Low risk	Near zero risk
	Low Likelihood	Medium risk	Low risk	Low risk	Near zero risk
	Unlikely	Low risk	Near zero risk	Near zero risk	Near zero risk

Description of Risks and Likely Actions

High Risk

There is a high probability that severe harm could arise to a receptor, or there is evidence that a receptor is currently being severely harmed. The risk if realised is likely to result in liability, and urgent investigation or remediation will be required.

Medium Risk

It is probable that harm will arise to a receptor. However, it is relatively unlikely that such harm would be severe, or if harm does occur the harm is likely to be relatively mild. Investigation will be required to determine the liability, and some remedial works may be required in the long term.

Low Risk

It is possible that harm may arise to a receptor, but it is likely that the harm would be mild.

Near Zero Risk

There is a very low risk of harm to the receptor. In the event of harm being realised the harm is not likely to be severe.

**ANNEX D
Trial Pit Logs –
Honeysuckle Close**



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Trial Pit No:

TP1

Sheet 1 of 1

Project Name: Honeysuckle Close	Project No: 16396B	Co-ords: - Level:	Date: 11/11/2020
---------------------------------	--------------------	----------------------	------------------

Location: Gurnos, Merthyr Tydfil	Dimensions: Depth 1.30	Scale: 1:25 Logged: RH
Client: Merthyr Valleys Homes Limited		

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.15			MADE GROUND: Soft dark brown sandy gravelly CLAY. Fine roots	
				0.45			MADE GROUND: Loose grey fine to coarse angular GRAVEL of slag. Bricks.	
				0.60			Firm brown very sandy gravelly cobbly CLAY. Gravel and cobble are fine to coarse angular to sub-rounded of sandstone	
							Medium dense becoming dense brown clayey SAND and fine to coarse angular GRAVEL and COBBLE of sandstone	1
				1.30			End of Pit at 1.300m	2
								3
								4
								5

Stability:

Remarks:



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Trial Pit No:

TP2

Sheet 1 of 1

Project Name: Honeysuckle Close

Project No:
16396B

Co-ords: -
Level:

Date:
11/11/2020

Location: Gurnos, Merthyr Tydfil

Dimensions:

Depth
1.70



Scale:
1:25

Logged:
RH

Client: Merthyr Valleys Homes Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.20			MADE GROUND: Soft dark brown CLAY. Fine roots.	
				0.50			MADE GROUND: Grey brown SAND and fine to medium angular GRAVEL. Bricks, plastic, tile and plastic pipe.	
				1.10			MADE GROUND: Dark grey fine to coarse angular GRAVEL of slag	1
				1.50			MADE GROUND: Soft to firm brown sandy gravelly cobbly CLAY. Gravel and cobble are fine to coarse angular of sandstone	
				1.70			Dense brown very clayey SAND and fine to coarse angular GRAVEL and COBBLE of sandstone	
							End of Pit at 1.700m	2
								3
								4
								5

Stability:

Remarks:



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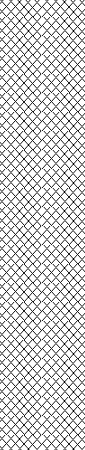
Trial Pit No:

TP3

Sheet 1 of 1

Project Name: Honeysuckle Close Project No: 16396B Co-ords: - Level: Date: 11/11/2020

Location: Gurnos, Merthyr Tydfil Dimensions: Depth 1.90 Scale: 1:25 Client: Merthyr Valleys Homes Limited Logged: RH

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				1.50			MADE GROUND: Loose dark grey brown clayey SAND and fine to coarse angular GRAVEL and COBBLE of sandstone. Bricks.	1
				1.90			Dense orange brown clayey sandy fine to coarse angular GRAVEL and COBBLE of sandstone	2
							End of Pit at 1.900m	3
								4
								5

Stability:

Remarks:



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Trial Pit No:

TP4

Sheet 1 of 1

Project Name: Honeysuckle Close

Project No:
16396B

Co-ords: -
Level:

Date:
11/11/2020

Location: Gurnos, Merthyr Tydfil

Dimensions:

Depth
2.20



Scale:
1:25

Logged:
RH

Client: Merthyr Valleys Homes Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.25			MADE GROUND: Dark grey clayey SAND and GRAVEL. Brick, pipe and plastic fragments. Fine roots	
							POSSIBLE MADE GROUND: Firm orange brown sandy gravelly CLAY	1
				1.50			Medium dense grey brown clayey gravelly cobbly SAND. Gravel and cobble are fine to coarse angular of sandstone	
				1.90			Dense brown SAND and fine to coarse angular GRAVEL and COBBLE of sandstone	2
				2.20			End of Pit at 2.200m	
								3
								4
								5

Stability:

Remarks:



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Trial Pit No:

TP5

Sheet 1 of 1

Project Name: Honeysuckle Close

Project No:
16396B

Co-ords: -
Level:

Date:
11/11/2020

Location: Gurnos, Merthyr Tydfil

Dimensions:

Depth
0.70



Scale:
1:25

Logged:
RH

Client: Merthyr Valleys Homes Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.20			MADE GROUND: Soft brown gravelly CLAY. Occasional fine red tile fragment. Fine roots	
							Weathered SANDSTONE BEDROCK retrieved as fine to coarse angular GRAVEL and COBBLE	
				0.70			End of Pit at 0.700m	
								1
								2
								3
								4
								5

Stability:

Remarks:



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Trial Pit No:

SA1

Sheet 1 of 1

Project Name: Honeysuckle Close				Project No: 16396B		Co-ords: - Level:		Date: 11/11/2020	
Location: Gurnos, Merthyr Tydfil						Dimensions: Depth 1.30		Scale: 1:25	
Client: Merthyr Valleys Homes Limited								Logged: RH	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				0.40			MADE GROUND: Soft dark grey gravelly CLAY. Fine roots. Rebar. Window frame pieces		
				0.50			MADE GROUND: TARMAC		
				1.00			MADE GROUND: Soft to firm grey and brown mottled gravelly cobbly CLAY. Gravel and cobble are fine to coarse angular to sub-angular of sandstone. Rare glass. Occasional brick		
				1.30			Dense orange brown slightly clayey SAND and fine to coarse angular GRAVEL and COBBLE of sandstone		
							End of Pit at 1.300m		
									1
									2
									3
									4
									5
Stability:									
Remarks:									



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Trial Pit No:

SA2

Sheet 1 of 1

Project Name: Honeysuckle Close

Project No:
16396B

Co-ords: -
Level:

Date:
11/11/2020

Location: Gurnos, Merthyr Tydfil

Dimensions:

Depth
1.60



Scale:
1:25

Logged:
RH

Client: Merthyr Valleys Homes Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.40			MADE GROUND: Grey brown clayey gravelly SAND. Brick, polystyrene, fabric. Fine roots	
				0.70			Firm brown sandy gravelly cobbly CLAY. Gravel and cobble are fine to coarse angular to sub-angular of sandstone	
							Dense brown becoming brown grey clayey SAND and fine to coarse angular GRAVEL and COBBLE of sandstone	1
				1.60			End of Pit at 1.600m	2
								3
								4
								5

Stability:

Remarks:

ANNEX E
Trial Pit Logs – Clos
Gwyddfid



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Trial Pit No:

TPB

Sheet 1 of 1

Project Name: Clos Gwyddfid

Project No:
16396A

Co-ords: -
Level:

Date:
11/11/2020

Location: Gurnos, Merthyr Tydfil

Dimensions:

Depth
0.80



Scale:
1:25

Logged:
RH

Client: Merthyr Valleys Homes Limited

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.15			MADE GROUND: Soft dark brown sandy gravelly CLAY. Fine roots.	
							MADE GROUND: Loose dark grey brown clayey gravelly cobbly SAND. Bricks and brick wall fragments, plastic, glass.	
				0.80			End of Pit at 0.800m	
								1
								2
								3
								4
								5

Stability:

Remarks: Pit terminated due to concrete at 0.8m depth



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Trial Pit No:
TPB2
Sheet 1 of 1

Project Name: Clos Gwyddfid Project No: 16396A Co-ords: - Level: Date: 11/11/2020

Location: Gurnos, Merthyr Tydfil Dimensions: Depth 2.00 Scale: 1:25 Client: Merthyr Valleys Homes Limited Logged: RH

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.30			MADE GROUND: Soft dark brown sandy gravelly CLAY. Fine roots.
				0.50			MADE GROUND: Tan brown gravelly SAND
				0.70			MADE GROUND: Soft to firm orange brown very sandy gravelly CLAY. Gravel is fine to coarse angular to sub-rounded of sandstone. Sheet plastic at base
				1.10			MADE GROUND: Soft brown grey sandy gravelly CLAY. Gravel is fine to coarse angular to sub-angular of mudstone
				1.90			MADE GROUND: Medium dense brown grey clayey SAND and fine to coarse angular to sub-angular GRAVEL of mudstone
				2.00			Very dense orange brown sandy fine to coarse angular GRAVEL and COBBLE of sandstone
							End of Pit at 2.000m

Stability:
Remarks:



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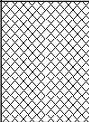
Trial Pit No:

TPC

Sheet 1 of 1

Project Name: Clos Gwyddfid Project No: 16396A Co-ords: - Level: Date: 11/11/2020

Location: Gurnos, Merthyr Tydfil Dimensions: Depth 0.40 Scale: 1:25 Client: Merthyr Valleys Homes Limited Logged: RH

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.40			MADE GROUND: Soft brown gravelly sandy CLAY. Rare brick fragment. Fine roots
							End of Pit at 0.400m
							1
							2
							3
							4
							5

Stability:

Remarks: Pit terminated due to concrete at 0.4m depth

ANNEX F
Laboratory Soil Chemical Test Results



Amended Report

Report No.:	20-30970-2		
Initial Date of Issue:	20-Nov-2020	Date of Re-Issue:	30-Nov-2020
Client	Terra Firma (Wales) Ltd		
Client Address:	5 Deryn Court Wharfedale Road Pentwyn Cardiff CF23 7HA		
Contact(s):	ruth@terrafirmawales.co.uk		
Project	Clos Gwyddfid		
Quotation No.:	Q20-21666	Date Received:	16-Nov-2020
Order No.:	16396A/RH	Date Instructed:	16-Nov-2020
No. of Samples:	3		
Turnaround (Wkdays):	13	Results Due:	02-Dec-2020
Date Approved:	30-Nov-2020		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Results - Soil

Project: Clos Gwyddfif

Client: Terra Firma (Wales) Ltd	Chemtest Job No.:				20-30970	20-30970	20-30970
Quotation No.: Q20-21666	Chemtest Sample ID.:				1096572	1096573	1096574
Order No.: 16396A/RH	Client Sample Ref.:				TPC	TPA	TPB
	Client Sample ID.:				TPC	TPA	TPB
	Sample Type:				SOIL	SOIL	SOIL
	Top Depth (m):				0.3	0.5	0.4
	Date Sampled:				12-Nov-2020	12-Nov-2020	12-Nov-2020
	Time Sampled:				12:00	12:00	12:00
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD			
ACM Type	U	2192		N/A	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
ACM Detection Stage	U	2192		N/A	-	-	-
Moisture	N	2030	%	0.020	13	9.3	20
Soil Colour	N	2040		N/A	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Sand	Sand
pH	M	2010		4.0	8.7	8.9	8.7
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.61	< 0.40	0.53
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010		
Cyanide (Complex)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Sulphate (Acid Soluble)	M	2430	%	0.010	0.069	0.11	0.12
Arsenic	M	2450	mg/kg	1.0	9.9	17	20
Beryllium	U	2450	mg/kg	1.0	< 1.0	1.7	< 1.0
Cadmium	M	2450	mg/kg	0.10	0.43	0.25	0.50
Chromium	M	2450	mg/kg	1.0	53	24	15
Mercury Low Level	M	2450	mg/kg	0.05	0.13	0.06	0.07
Manganese	M	2450	mg/kg	5.0	1400	2800	950
Molybdenum	M	2450	mg/kg	2.0	< 2.0	< 2.0	< 2.0
Antimony	N	2450	mg/kg	2.0	< 2.0	< 2.0	< 2.0
Copper	M	2450	mg/kg	0.50	28	18	15
Nickel	M	2450	mg/kg	0.50	25	16	16
Lead	M	2450	mg/kg	0.50	48	37	36
Selenium	M	2450	mg/kg	0.20	0.24	0.65	0.33
Zinc	M	2450	mg/kg	0.50	150	67	56
Chromium (Trivalent)	N	2490	mg/kg	1.0	53	24	15
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	24
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	260

Results - Soil

Project: Clos Gwyddfid

Client: Terra Firma (Wales) Ltd	Chemtest Job No.:				20-30970	20-30970	20-30970
Quotation No.: Q20-21666	Chemtest Sample ID.:				1096572	1096573	1096574
Order No.: 16396A/RH	Client Sample Ref.:				TPC	TPA	TPB
	Client Sample ID.:				TPC	TPA	TPB
	Sample Type:				SOIL	SOIL	SOIL
	Top Depth (m):				0.3	0.5	0.4
	Date Sampled:				12-Nov-2020	12-Nov-2020	12-Nov-2020
	Time Sampled:				12:00	12:00	12:00
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD			
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	290
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	290
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	1.3
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	1.5
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	9.2
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	7.2
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	28
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	8.1
Fluoranthene	M	2700	mg/kg	0.10	1.1	< 0.10	35
Pyrene	M	2700	mg/kg	0.10	1.2	< 0.10	31
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	22
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10	28
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	33
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	12
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	24
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	19
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	6.3
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	18
Total Of 16 PAH's	M	2700	mg/kg	2.0	2.3	< 2.0	280
Total Phenols	M	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30
Organic Matter BS1377	N	2930	%	0.10	6.6	1.4	7.8

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.
2930	Organic Matter	Organic Matter	Acid Dichromate digestion/Titration

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Amended Report

Report No.:	20-30967-2		
Initial Date of Issue:	20-Nov-2020	Date of Re-Issue:	03-Dec-2020
Client	Terra Firma (Wales) Ltd		
Client Address:	5 Deryn Court Wharfedale Road Pentwyn Cardiff CF23 7HA		
Contact(s):	ruth@terrafirmawales.co.uk		
Project	Honeysuckle		
Quotation No.:	Q20-21666	Date Received:	16-Nov-2020
Order No.:	16396B/RH	Date Instructed:	16-Nov-2020
No. of Samples:	6		
Turnaround (Wkdays):	16	Results Due:	07-Dec-2020
Date Approved:	03-Dec-2020		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Results - Soil

Project: Honeysuckle

Client: Terra Firma (Wales) Ltd	Chemtest Job No.:				20-30967	20-30967	20-30967	20-30967	20-30967	20-30967
Quotation No.: Q20-21666	Chemtest Sample ID.:				1096558	1096559	1096560	1096561	1096562	1096563
Order No.: 16396B/RH	Client Sample Ref.:				SA1	TP1	TP2	TP3	TP4	TP5
	Client Sample ID.:				SA1	TP1	TP2	TP3	TP4	TP5
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.3	0.6	0.4	0.4	0.2	0.2
	Date Sampled:				12-Nov-2020	12-Nov-2020	12-Nov-2020	12-Nov-2020	12-Nov-2020	12-Nov-2020
	Time Sampled:				12:00	12:00	12:00	12:00	12:00	12:00
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD						
ACM Type	U	2192		N/A	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
ACM Detection Stage	U	2192		N/A	-	-	-	-	-	-
Moisture	N	2030	%	0.020	25	11	9.7	11	7.2	13
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	None	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Sand	Sand	Sand	Sand	Sand
pH	M	2010		4.0	8.6	10.0	9.8	9.8	10.0	8.3
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.54	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010				0.28	
Cyanide (Complex)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphate (Acid Soluble)	M	2430	%	0.010	0.28	0.071	0.15	0.12	0.32	0.048
Arsenic	M	2450	mg/kg	1.0	20	4.5	13	18	16	18
Beryllium	U	2450	mg/kg	1.0	1.4	< 1.0	1.7	< 1.0	1.9	< 1.0
Cadmium	M	2450	mg/kg	0.10	0.35	0.30	0.28	0.17	0.23	0.50
Chromium	M	2450	mg/kg	1.0	40	13	36	19	49	17
Mercury Low Level	M	2450	mg/kg	0.05	0.07	< 0.05	0.06	0.06	< 0.05	0.10
Manganese	M	2450	mg/kg	5.0	940	750	2000	880	2000	840
Molybdenum	M	2450	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Antimony	N	2450	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.6	< 2.0
Copper	M	2450	mg/kg	0.50	20	12	26	12	14	18
Nickel	M	2450	mg/kg	0.50	36	16	19	11	16	16
Lead	M	2450	mg/kg	0.50	52	29	36	31	92	46
Selenium	M	2450	mg/kg	0.20	< 0.20	0.31	< 0.20	0.46	< 0.20	0.67
Zinc	M	2450	mg/kg	0.50	170	96	79	38	150	80
Chromium (Trivalent)	N	2490	mg/kg	1.0	40	13	36	19	49	17
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: Honeysuckle

Client: Terra Firma (Wales) Ltd	Chemtest Job No.:				20-30967	20-30967	20-30967	20-30967	20-30967	20-30967
Quotation No.: Q20-21666	Chemtest Sample ID.:				1096558	1096559	1096560	1096561	1096562	1096563
Order No.: 16396B/RH	Client Sample Ref.:				SA1	TP1	TP2	TP3	TP4	TP5
	Client Sample ID.:				SA1	TP1	TP2	TP3	TP4	TP5
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.3	0.6	0.4	0.4	0.2	0.2
	Date Sampled:				12-Nov-2020	12-Nov-2020	12-Nov-2020	12-Nov-2020	12-Nov-2020	12-Nov-2020
	Time Sampled:				12:00	12:00	12:00	12:00	12:00	12:00
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD						
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	M	2700	mg/kg	0.10	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	3.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	0.34	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	2.1	< 0.10	1.2	< 0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.10	0.54	< 0.10	0.24	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	5.5	< 0.10	1.5	< 0.10	2.2	< 0.10
Pyrene	M	2700	mg/kg	0.10	3.6	< 0.10	2.0	< 0.10	2.6	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.10	2.4	< 0.10	1.0	< 0.10	1.7	< 0.10
Chrysene	M	2700	mg/kg	0.10	3.0	< 0.10	1.7	< 0.10	2.0	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	3.7	< 0.10	1.2	< 0.10	3.0	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	1.3	< 0.10	0.40	< 0.10	1.7	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	2.6	< 0.10	1.2	< 0.10	2.0	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	1.8	< 0.10	0.79	< 0.10	1.2	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	0.48	< 0.10	0.55	< 0.10	0.73	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	2.5	< 0.10	1.0	< 0.10	1.2	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	33	< 2.0	13	< 2.0	18	< 2.0
Total Phenols	M	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
Organic Matter BS1377	N	2930	%	0.10	3.5	0.40	1.7	1.7	1.1	2.7

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.
2930	Organic Matter	Organic Matter	Acid Dichromate digestion/Titration

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Key

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The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

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- A - Date of sampling not supplied
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Sample Retention and Disposal

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All water samples will be retained for 14 days from the date of receipt

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customerservices@chemtest.com

**ANNEX G
Soakaway Test Results**

SOAKAWAY TEST



Site Name: Honeysuckle Close
Project Number: 16396B
Date: 11.11.2020
Engineer: RH

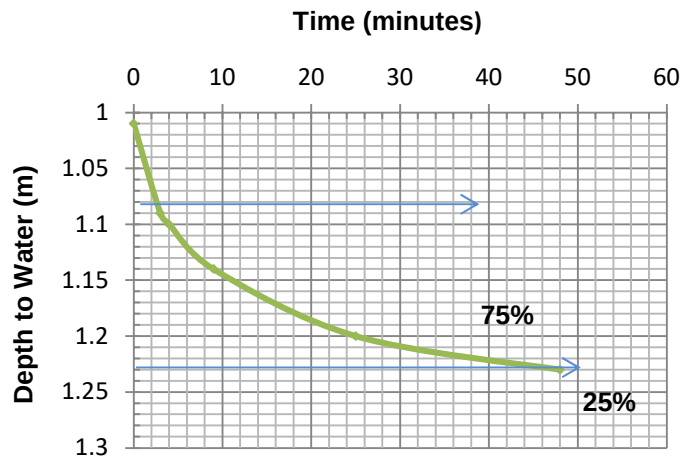
Trial Pit: SA1

TEST 1

Length	1.40 m
Bredth	0.80 m
Depth	1.30 m
Fill Level	1.01 m

V_{p75-25} 0.162 m³
 a_{p50} 1.758 m²
 t_{p75-25} 43 minutes

Soil Infiltration Rate, f 3.58E-05 ms⁻¹

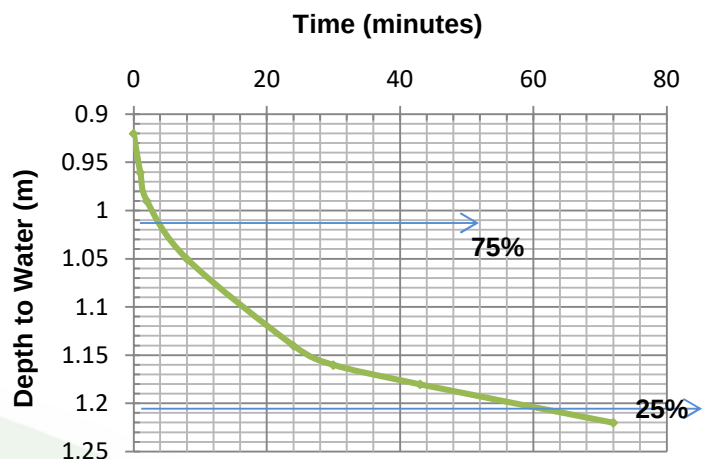


TEST 2

Length	1.40 m
Bredth	0.80 m
Depth	1.30 m
Fill Level	0.92 m

V_{p75-25} 0.213 m³
 a_{p50} 1.956 m²
 t_{p75-25} 58 minutes

Soil Infiltration Rate, f 3.13E-05 ms⁻¹

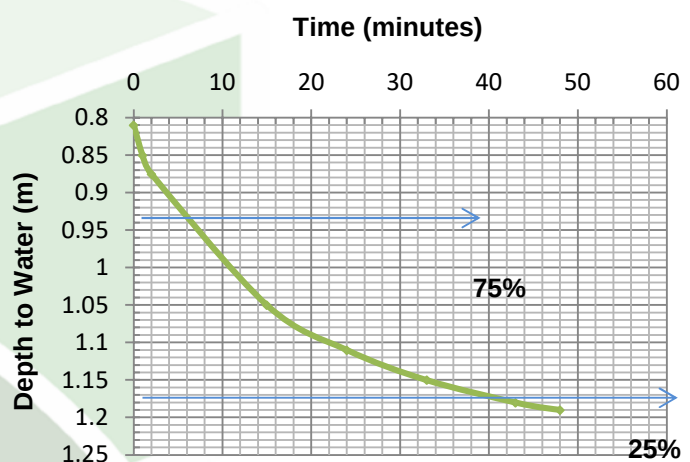


TEST 3

Length	1.40 m
Bredth	0.80 m
Depth	1.30 m
Fill Level	0.81 m

V_{p75-25} 0.274 m³
 a_{p50} 2.198 m²
 t_{p75-25} 34 minutes

Soil Infiltration Rate, f 6.12E-05 ms⁻¹



REMARKS:

Test carried out in accordance with BRE Digest 365 (2016)

ANNEX H
Plasticity Test Results

TEST REPORT

LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX

BS 1377:Part 2:1990. Clause 4.3/5.3/5.4

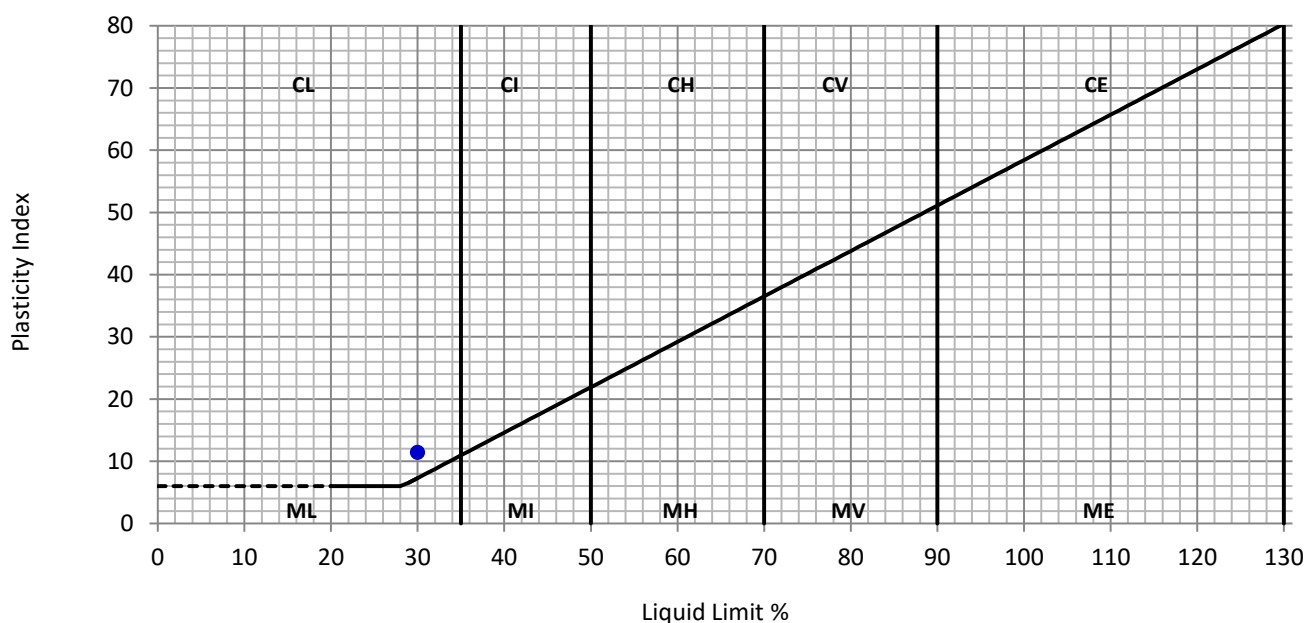
Project No:	D20425	Client:	Terra Firma
Project Name:	Honeysuckle	Address:	Deryn Court 5 Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	22431		

Site Ref / Hole ID:	SA1	Depth (m):	0.80
Sample No:		Sample Type:	Disturbed
Sampling Certificate Received:	No	Material Description:	Brown sandy slightly gravelly CLAY
Location in Works:	N/A	Material Source:	Unknown
Date Sampled:	Unknown	Material Supplier:	Unknown
Sampled By:	Client	Specification:	BS1377
Date Received:	13 November 2020	Date Tested:	21 November 2020

Test Results

Liquid Limit	30	%
Plastic Limit	19	%
Plasticity Index	11	%

Preparation:	4.2.4 Sieved Specimen
Proportion retained on 425µm sieve:	18 %



Remarks:

QA Ref.

BS1377 - 2
Rev. 2.0



Apex Testing Solutions

Sturmi Way, Village Farm Industrial Est, Pyle,
Bridgend, CF33 6BZ
Tel: 01656 746762 Fax: 01656 749096



7771

Approver

L DAVIS

L Davis, Quality Manager

Date

25/11/2020

Fig.

ATT

TEST REPORT

LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX

BS 1377:Part 2:1990. Clause 4.3/5.3/5.4

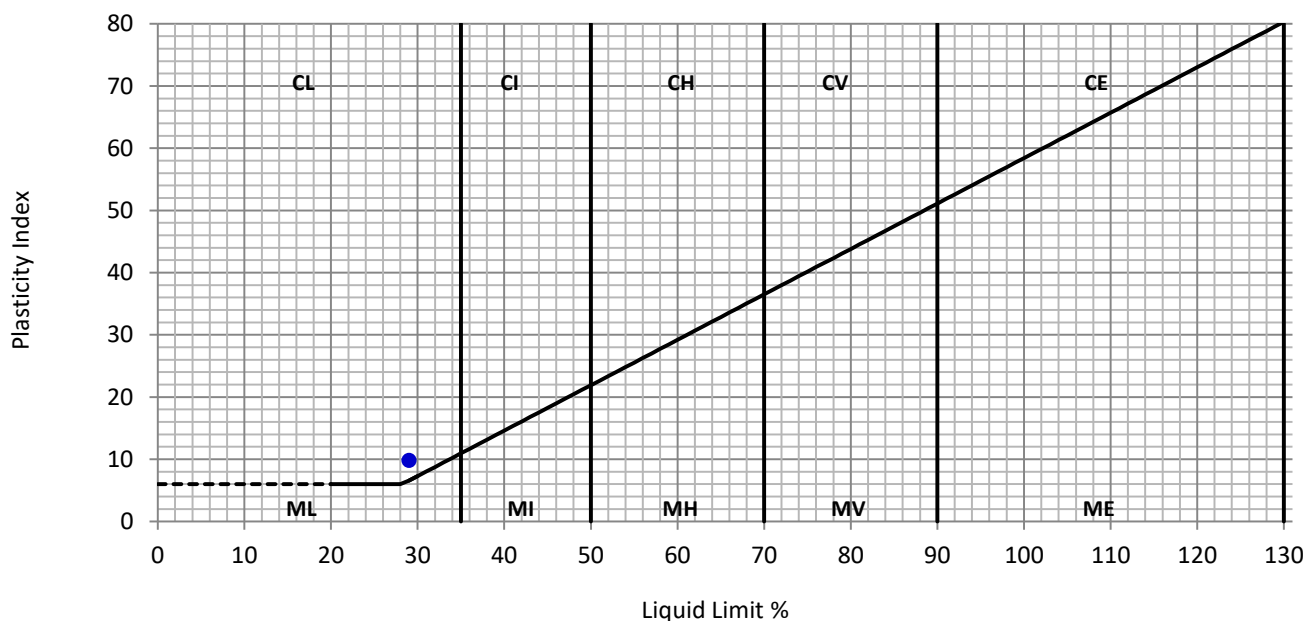
Project No: D20425 Project Name: Honeysuckle ATS Sample No: 22433	Client: Terra Firma Address: Deryn Court 5 Wharfdale Road Cardiff CF23 7HA
--	--

Site Ref / Hole ID: TP4 Sample No: Sampling Certificate Received: No Location in Works: N/A Date Sampled: Unknown Sampled By: Client Date Received: 13 November 2020	Depth (m): 1.00 Sample Type: Disturbed Material Description: Brown slightly gravelly CLAY Material Source: Unknown Material Supplier: Unknown Specification: BS1377 Date Tested: 21 November 2020
---	--

Test Results

Liquid Limit	29	%
Plastic Limit	19	%
Plasticity Index	10	%

Preparation:	4.2.4 Sieved Specimen
Proportion retained on 425µm sieve:	24 %



Remarks:

QA Ref.

BS1377 - 2
Rev. 2.0



Apex Testing Solutions

Sturmi Way, Village Farm Industrial Est, Pyle,
Bridgend, CF33 6BZ
Tel: 01656 746762 Fax: 01656 749096



7771

Approver

L DAVIS

L Davis, Quality Manager

Date

25/11/2020

Fig.

ATT

TEST REPORT
LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX
BS 1377:Part 2:1990. Clause 4.3/5.3/5.4

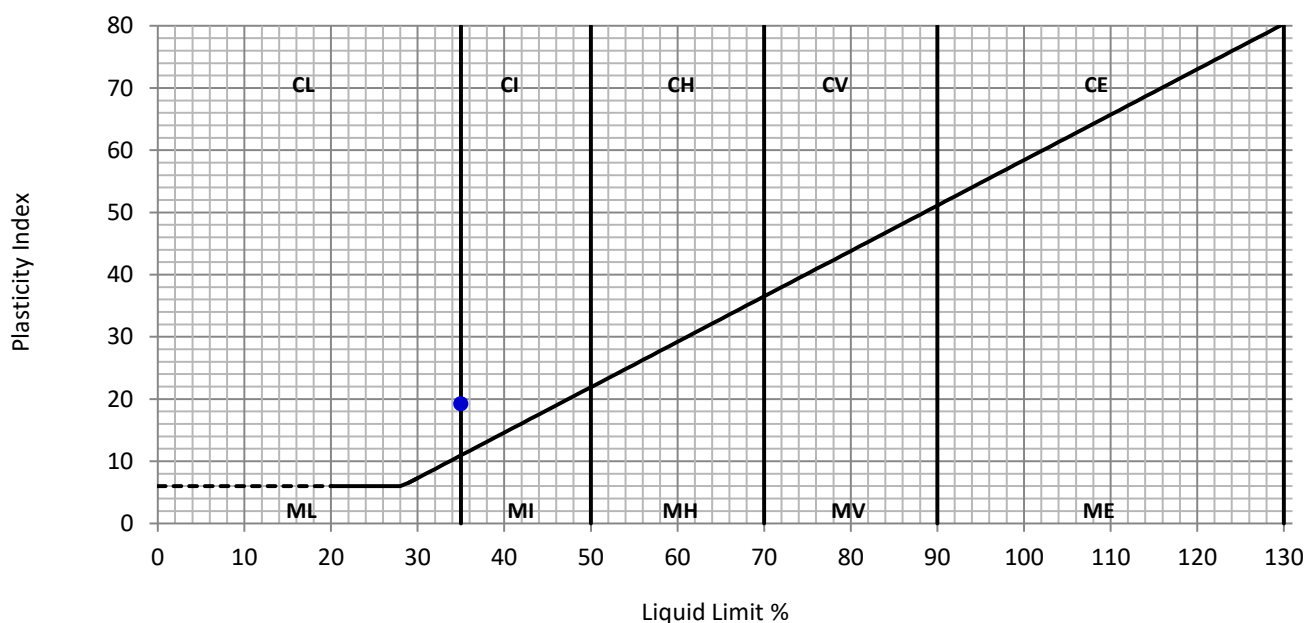
Project No:	D20425	Client:	Terra Firma
Project Name:	Honeysuckle	Address:	Deryn Court 5 Wharfdale Road Cardiff CF23 7HA
ATS Sample No:	22432		

Site Ref / Hole ID:	TP2	Depth (m):	1.20
Sample No:		Sample Type:	Disturbed
Sampling Certificate Received:	No	Material Description:	Brown slightly sandy slightly gravelly CLAY
Location in Works:	N/A	Material Source:	Unknown
Date Sampled:	Unknown	Material Supplier:	Unknown
Sampled By:	Client	Specification:	BS1377
Date Received:	13 November 2020	Date Tested:	21 November 2020

Test Results

Liquid Limit	35	%
Plastic Limit	16	%
Plasticity Index	19	%

Preparation:	4.2.4 Sieved Specimen
Proportion retained on 425µm sieve:	28 %



Remarks:

QA Ref.

BS1377 - 2
Rev. 2.0



Apex Testing Solutions

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Approver

L DAVIS

L Davis, Quality Manager

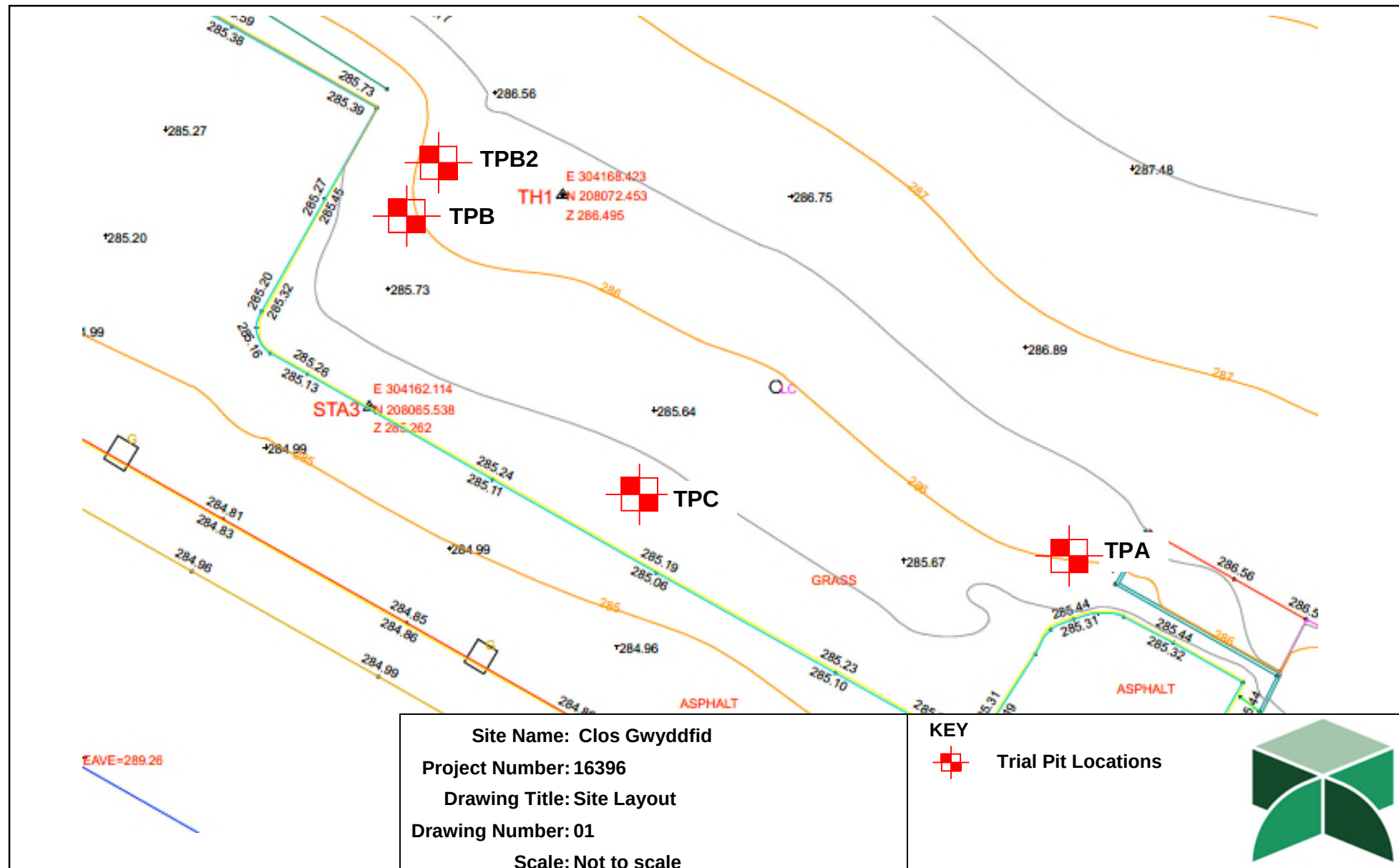
Date

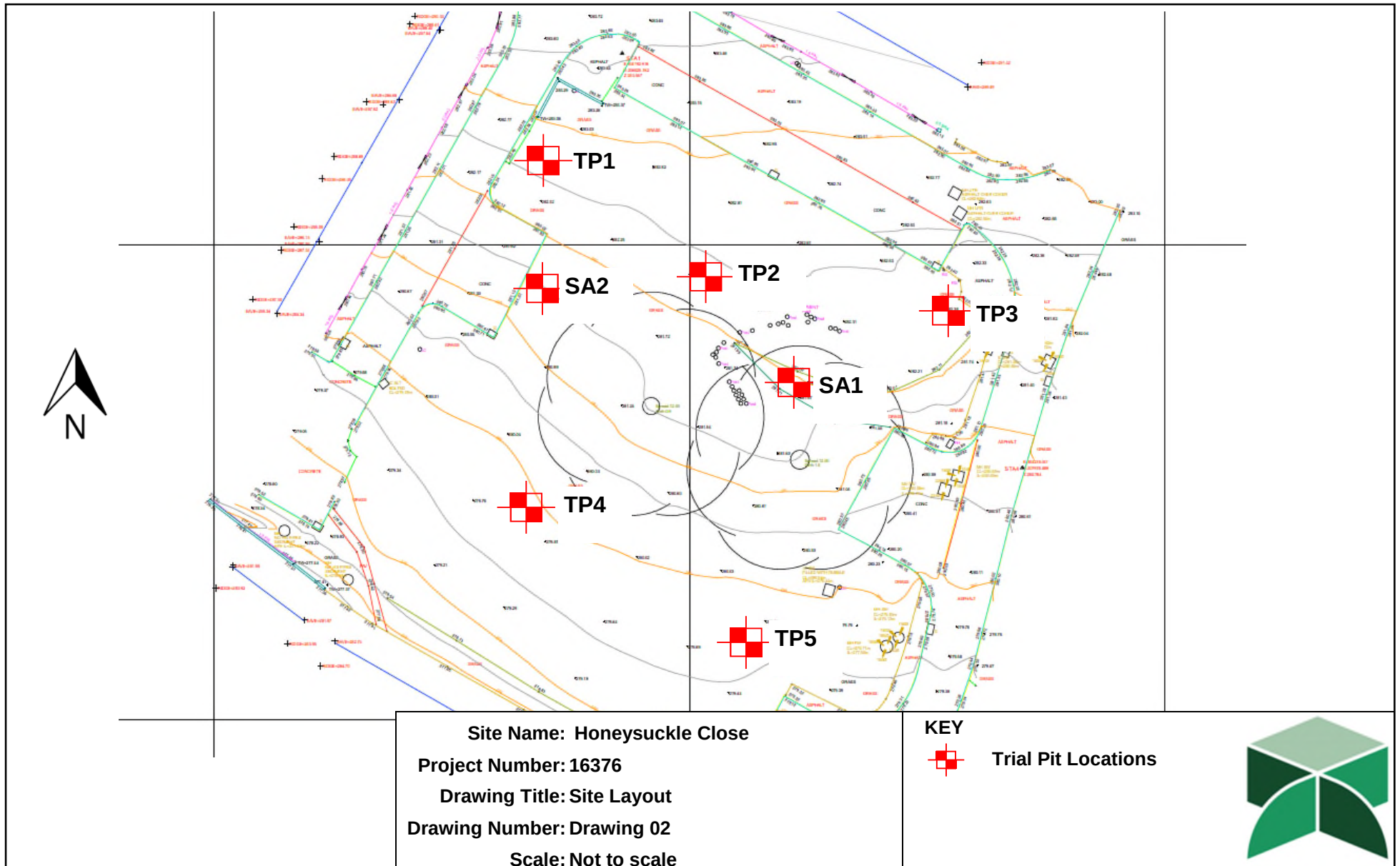
25/11/2020

Fig.

ATT

DRAWINGS







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